



Planning Commission Meeting Agenda

October 14, 2025
5:30 PM – Regular Meeting

AMENDED

Council Chambers
400 N. Douty St.

Planning Commissioners will meet in-person in the Council Chambers. The meeting will also be live streamed on the City's website: <http://livestream.hanford.city/>

ROLL CALL:

INVOCATION:

FLAG SALUTE:

PUBLIC COMMENT:

This is the time for citizens to comment on subject matters not on the agenda and that are within the jurisdiction of the Commission. This is also the public's opportunity to request an item from the Consent Calendar be pulled for discussion purposes or to comment on any item on the agenda. Comments related to Public Hearing items will be heard at the time the item is discussed. A maximum of three minutes is allowed for each speaker. Please begin your comments by stating your name and providing your city of residence.

CONSENT CALENDAR:

Consent Calendar items are considered routine and will be enacted in one motion. There will be no separate discussion of these matters unless a request is made and then the item will be removed from the Consent Calendar to be discussed and voted upon by a separate motion.

- A. Community Development: Approval of the September 23, 2025 Minutes

PUBLIC HEARING:

- A. Community Development: Conditional Use Permit No. 0050-25: a request to operate an indoor playground for children aged 0-5 within an existing 2,019-square-foot suite in the C-R Regional Commercial zone district. The project is located at 2461 E. Lacey Blvd. Suite 109 (APN 016-320-014).
- B. Community Development: Conditional Use Permit No. 0053-25: a request by O7 Ink Lounge to relocate an existing tattoo studio into an existing 1,110-square-foot suite in the MX-C Corridor Mixed Use zone district. The project is located at 126 N. 11th Ave. (APN 012-271-035).

- C. Community Development: Annexation165: a request to annex approximately 141.85 acres into the City of Hanford City Limits from the Kings County Jurisdiction. The annexation area is a combination of the Project Site (83.61 acres) and an area to the north, not proposed to be developed at this time (58.24 acres).

General Plan Amendment No. 0009-24: a request to change the land use designation from a combination of Low- and Medium-Density Residential to Medium-Density Residential (78.16 acres) and Neighborhood Mixed Use (5.45 acres) for 83.61 acres of the project site.

Prezone No. 0013-24: a request to prezone the properties as a R-M Medium-Density Residential (78.16 acres) and MX-N Neighborhood Mixed Use (5.45 acres), consistent with the proposed General Plan Amendment and R-L-5 Low-Density Residential (51.92 acres) and C-N Neighborhood Commercial (6.32 acres), consistent with the General Plan Designation.

Tentative Subdivision Map 00012-24: a request to subdivide 83.61 acres of the annexation area into a **650-unit multi-family (300 units) and single-family (350 units) residential subdivision** and a 5.45-acre Neighborhood Mixed Use site with a planned unit development overlay.

Planned Unit Development No. 0037-24: a request to allow various deviations from the regulation of the R-M Medium-Density Residential zone district for the mixed use subdivision, proposed under Tentative Tract 945, including reduced lot size, lot width, lot depth, site area per dwelling unit requirements, setbacks, open space dimensions, and allow removal of the block wall requirement between MX-N Neighborhood Mixed Use and R-M Medium-Density Residential.

Mitigated Negative Declaration No. 2025-73 (SCH #2024121093): a request to certify that the project will have a less than significant adverse impacts on the environment with the incorporation of mitigation measures

LOCATION: The Project site is located north of Grangeville Boulevard and east of 9 ¼ Avenue. The development site includes two parcels, comprising 83.61 acres (APNs 014-143-069 and 014-143-078). The additional Annexation Area encompasses 58.24 acres (APNs 014-143-022, 014-830-011, 014-830-010, 014-830-013, 014-830-014, 014-830-015, 014-830-016, 014-830-017, 014-830-018).

DIRECTOR'S COMMENTS:

COMMISSIONERS' ITEMS OF INTEREST:

At this time, any Commissioner may ask a question for clarification of matters within the Planning Commission's jurisdiction, make an announcement, or report briefly on activities in their role as a Planning Commissioner. In addition, subject to the Planning Commissioner's Handbook, Commissioners may request staff to report back to the Planning Commission at a subsequent meeting concerning any matter within the Commissioner's jurisdiction (GC 54954.2).

ADJOURNMENT:

Materials related to an item on this Agenda submitted to the Planning Commission after distribution of the agenda packet are available to public inspection in the Planning Division Office located at 317 N. Douty Street, Hanford, California 93230, during normal business hours. Such documents are also available at the city's website, www.cityofhanfordca.com

subject to staff's ability to post documents before the meeting. If you need a disability-related modification or accommodation, including auxiliary aids or services, to participate in this meeting, please contact the Planning Division's office, 559-585-2580, 317 N. Douty Street, Hanford, California 93230, at least 2 days prior to the meeting {28 CFR 35.102.35.104 ADA Title II} APPEALS: Any action of the Planning Commission, which is a final project decision, may be appealed to the City Council by the applicant or any adversely affected person. To file an appeal, an appeal application and filing fee of \$1,100.00 must be submitted to the Community Development Department, 317 N. Douty Street, Hanford, California, within ten (10) days following the date of the final decision of the Planning Commission.



**Planning Commission Regular Meeting
Minutes**

**September 23, 2025 5:30 PM
Council Chambers
400 N. Douty St.**

ROLL CALL:

Present:	Absent:
Commissioner Garry Curtis Commissioner Gunther Norris Vice-Chair Richard Douglas Chair Dennis Ham	Commissioner Jim Nelson Alternate Commissioner Bernardo Marez

INVOCATION:

Pastor Abel Aguilar, New Hope Community Church

FLAG SALUTE:

Commissioner CURTIS led the flag salute.

PUBLIC COMMENT:

This is the time for citizens to comment on subject matters not on the agenda and that are within the jurisdiction of the Commission. This is also the public's opportunity to request an item from the Consent Calendar be pulled for discussion purposes or to comment on any item on the agenda. Comments related to Public Hearing items will be heard at the time the item is discussed. A maximum of three minutes is allowed for each speaker. Please begin your comments by stating your name and providing your city of residence.

None.

CONSENT CALENDAR:

Consent Calendar items are considered routine and will be enacted in one motion. There will be no separate discussion of these matters unless a request is made and then the item will be removed from the Consent Calendar to be discussed and voted upon by a separate motion.

A. Community Development: Approval of the June 10, 2025 Minutes

B. Community Development: Approval of the September 9, 2025 Minutes

Motion to approve the Consent Calendar.

RESULT: (UNANIMOUS)
MOVER: CURTIS
SECONDER: DOUGLAS
AYES: CURTIS, DOUGLAS, NORRIS, HAM

PUBLIC HEARING:

A. Community Development: Zone Text Amendment No. 2025-13, a request to amend:

Table 17.08.030 Commercial, Office, and Industrial Use Table and 17.96.020 Land use definitions in order to allow Banks or Credit Unions in the C-N, C-R, MX-D, MX-C and MX-N Zones.

Chair HAM opened the public hearing and called for the staff report. Community Development Director Waters presented the Staff report, recommended approval, and invited questions of staff.

Chair HAM

- If an existing bank opened another branch in a different zone, would that be considered a second branch? Director Waters: It would just be considered a bank. There would be no differentiation.
- Would an ATM within another business, such as Walmart or Target, count as a bank, or does this amendment only include full-service banks? Director Waters: ATMs are treated differently. The ordinance would pertain to full-service banks.
- Does the change require the bank to be a stand-alone building? Director Waters: It is not restricted to stand-alone buildings. It would have to be compatible with the zone district.

Chair HAM opened Public Comment. There being none, he called for a motion.

Motion to adopt Resolution No. 2025-26, recommending approval of Zone Text Amendment No. 2025-13 to the City Council.

RESULT: (UNANIMOUS)
MOVER: DOUGLAS
SECONDER: NORRIS
AYES: DOUGLAS, NORRIS, CURTIS, HAM

DIRECTOR'S COMMENTS:

Director Waters announced that there will be an Environmental Justice meeting tomorrow, at KCAO, 1130 N. 11th Avenue, from 6:00-8:00 p.m., and the Commissioners are welcome to attend.

COMMISSIONERS' ITEMS OF INTEREST:

At this time, any Commissioner may ask a question for clarification of matters within the Planning Commission's jurisdiction, make an announcement, or report briefly on activities in their role as a Planning Commissioner. In addition, subject to the Planning Commissioner's Handbook, Commissioners may request staff to report back to the Planning Commission at a subsequent meeting concerning any matter within the Commissioner's jurisdiction (GC 54954.2).

Chair HAM announced that he, and others, have been reappointed to the Planning Commission. Director Waters added that Commissioner Nelson had also been reappointed.

Chair HAM mentioned that the Planning Commission sometimes looks at the Housing Element and asked if they ever review the Airport Master Plan. Director Waters stated that he would have to review the approval process for the Airport Master Plan.

ADJOURNMENT:

Materials related to an item on this Agenda submitted to the Planning Commission after distribution of the agenda packet are available to public inspection in the Planning Division Office located at 317 N. Douty Street, Hanford, California 93230, during normal business hours. Such documents are also available at the city's website, www.cityofhanfordca.com subject to staff's ability to post documents before the meeting. If you need a disability-related modification or accommodation, including auxiliary aids or services, to participate in this meeting, please contact the Planning Division's office, 559-585-2580, 317 N. Douty Street, Hanford, California 93230, at least 2 days prior to the meeting {28 CFR 35.102.35.104 ADA Title II} APPEALS: Any action of the Planning Commission, which is a final project decision, may be appealed to the City Council by the applicant or any adversely affected person. To file an appeal, an appeal application and filing fee of \$1,100.00 must be submitted to the Community Development Department, 317 N. Douty Street, Hanford,

California, within ten (10) days following the date of the final decision of the Planning Commission.

Chair HAM adjourned the meeting at 5:42 p.m.

Respectfully submitted,

Diana Black
Recording Secretary



AGENDA STAFF REPORT

MEETING DATE: 10/14/2025

AGENDA SECTION: PUBLIC HEARING

SUBJECT:

Conditional Use Permit No. 0050-25: a request to operate an indoor playground for children aged 0-5 within an existing 2,019-square-foot suite in the C-R Regional Commercial zone district. The project is located at 2461 E. Lacey Blvd. Suite 109 (APN 016-320-014).

STAFF RECOMMENDATION

Staff recommends that the Planning Commission:

1. Adopt Resolution No. 2025-28, approving Conditional Use Permit No. 0050-25.

RECOMMENDED MOTION

1. I move to adopt Resolution No. 2025-28, approving Conditional Use Permit No. 0050-25.

PROJECT DESCRIPTION

The project is a request to operate an indoor playground for children aged 0-5 within an existing 2,019-square-foot suite in the C-R Regional Commercial zone district. As shown on the plans provided (see **Attachment 1**), the suite will include a party/play area, with two smaller party rooms, an entry area, a work/storage room, and a restroom. The playground will be located entirely inside the building and no activities will occur outside of the enclosed permanently fixed structure.

Project Location

The proposed project is located at 2461 E. Lacey Blvd. Suite 109 (APN 016-320-014) (see Figure 1, below). The General Plan designates the property as Regional Commercial (see Figure 2, below). The property is zoned C-R Regional Commercial, which corresponds with the General Plan designation (see Figure 3, below).

Figure 1:
Land Use (property outlined in red)

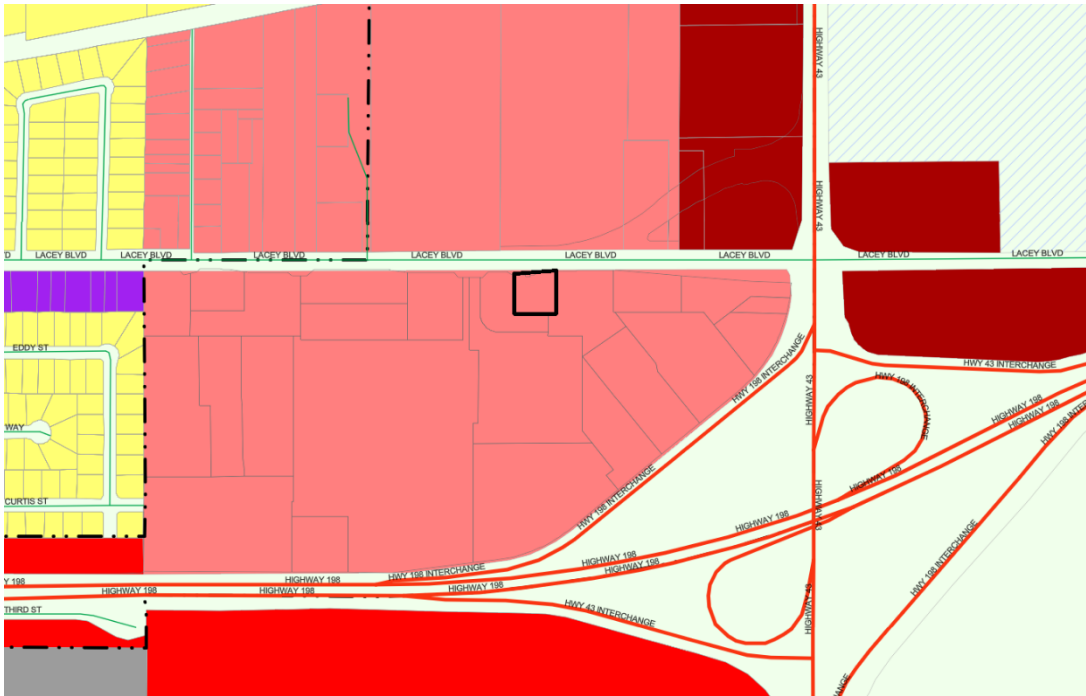


BACKGROUND INFORMATION

General Plan Designation

The General Plan designates the property as Regional Commercial (see Figure 2, below). In accordance with General Plan Policy L47, the purpose of the Regional Commercial land use designation is to provide a variety of commercial goods, entertainment, and services in large-format shopping centers for both the Hanford community and the larger region outside of Hanford. The use of the site for an indoor playground supports this policy, as an indoor playground provides entertainment that will be located within a large-format shopping center development to support both the Hanford community and the larger region outside of Hanford. In accordance with General Plan Policy L48, typical uses in the Regional Commercial land use designation include goods, entertainment, and services that benefit from the market synergy that occurs when the uses are located in close proximity to each other. Typical uses include retail sales in big box or large format buildings, shopping malls, eating establishments, and service stations. Prohibit uses that typically provide only day-to-day goods and services. The use of the site for an indoor playground supports this policy, as it is entertainment that benefits from the market synergy that occurs when uses are located in close proximity to each other.

Figure 2:
General Plan Designation (property outlined in bold)
Regional Commercial



Zoning Designation

The property is zoned C-R Regional Commercial, which corresponds with the General Plan designation (see Figure 3, below). The applicant seeks to allow an indoor playground in the C-R Regional Commercial zone district. An indoor playground is classified as a “Commercial recreation facility, indoor” use in the Hanford Zoning Ordinance. According to the Commercial, Office, and Industrial Zone Use Table, presented in Table 17.08.030 of the Hanford Municipal Code, a commercial recreation facility, indoor requires a Conditional Use Permit in the C-R Regional Commercial zone district (see Figure 4, below). "Commercial recreation facility, indoor" means indoor recreational facilities that are operated as a business and open to the general public for an entry fee or pay per use. Examples include indoor uses such as, but are not limited to, a bowling alley, bounce house, skating rink, batting cage, miniature golf, swimming pool, climbing wall, arcade, and similar uses. Food and beverage service can be provided as an ancillary use.

Figure 3:
Zoning Designation (property outlined in bold)
C-R Regional Commercial

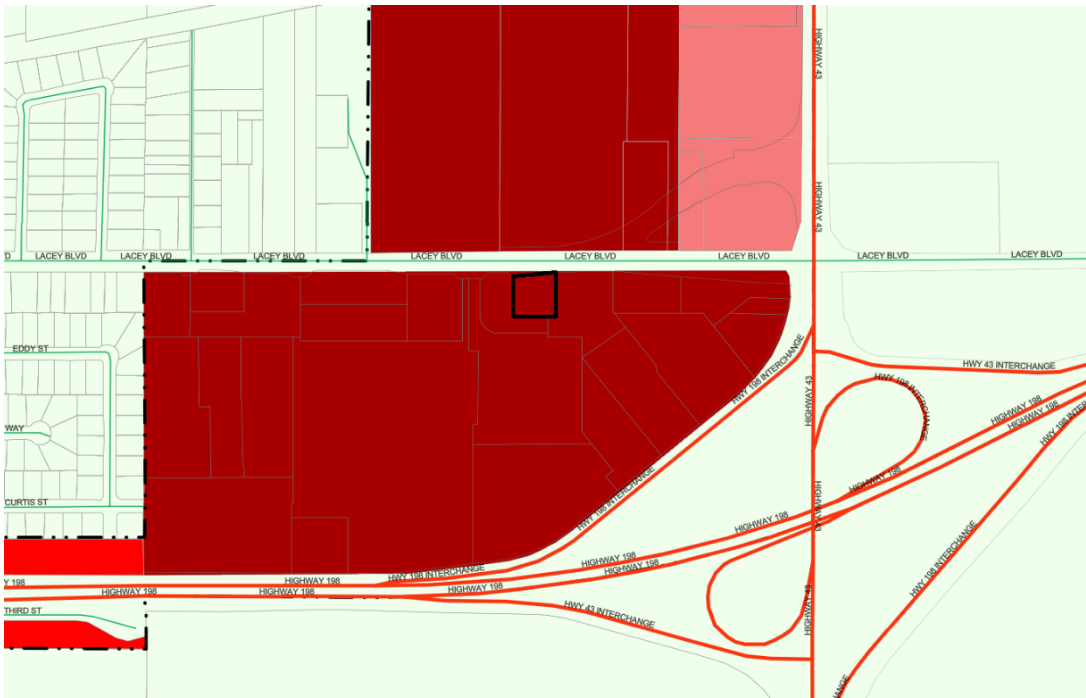


Figure 4:
Land Use Table

Commercial, Office, and Industrial Zone Use Table														
P = Use Is Permitted by Right C = Use Requires Conditional Use Permit A = Use Requires Administrative Use Permit T = Use Requires Temporary Use Permit Blank = Use Is Not Allowed														
Land Uses	Commercial Zones				Mixed Use Zones			Industrial and Office Zones				Other Zones		
	C-N	C-R	C-S	C-H	MX-N	MX-C	MX-D	O-R	O	I-L	I-H	AP	PF	CO
G2 Commercial recreation facility, indoor	C	C	P	P	C	P	C			C				

PROJECT EVALUATION

Conformance with the standards of the C-R Regional Commercial zone district

17.18.030 Site Area

In the C-R Regional Commercial zone district, the minimum site area shall be 10 acres. The site may be divided into multiple separate lots, if a reciprocal use agreement for shared common access and parking areas is recorded with the Kings County Recorder’s Office. Existing sites of less than 10 acres may be developed in accordance with the specifications of Chapter 17.18 of the Municipal Code. The site is an existing 0.64 acres and located within an existing integrated shopping center with shared parking, landscaping, lighting, signage, and cross access, encompassing approximately 59 acres. Since the property is part of this larger development and is already existing and developed, it meets the requirements for the C-R Regional Commercial zone district.

17.18.040 Lot Dimensions

In the C-R Regional Commercial zone district, the minimum lot frontage shall be 40 feet, unless a reciprocal use agreement for shared common access and parking areas is recorded with the Kings County recorder's office. The project site has 187.99 feet of street frontage. The property exceeds the lot frontage requirement for the C-R Regional Commercial zone district.

17.18.050 Coverage

The maximum coverage of a lot shall be determined by the combined building setback area requirements, open space requirements, and off-street parking and loading requirements. All required building setback area, open space, and off-street parking and loading requirements were evaluated and mandated as part of the site plan review process.

17.18.060 Building Setback Area

No structure is permitted to be placed within a building setback area.

Front-Building Setback

In the C-R Regional Commercial zone district, the front building setback shall be 15 feet. The building setback is approximately 17 feet from the front lot line, which satisfies the requirement of the C-R Regional Commercial zone district.

Side-Building Setback

The side building setback area shall be zero feet, except where the side lot line abuts a public street or an R-L, R-M, R-H, O-R, O, PF, AP, or CO zone district, then the side building setback area shall be 15 feet. The side lot lines abut properties in the C-R Regional Commercial zone district, which allows a setback of zero feet. The western side building setback area is approximately 45 feet and the eastern side building setback area is approximately 25 feet. The side setback requirement for the C-R Regional Commercial zone district is satisfied.

Rear-Building Setback

The rear building setback may be zero feet from the rear lot line, except where the rear lot line abuts a public street or an R-L, R-H, R-M, O-R, PF, AP, or CO zone district, then the rear building setback area shall be 15 feet. The rear lot line abuts properties in the C-R Regional Commercial zone district, which allows a setback of zero feet. The rear building setback is approximately 75 feet. The rear setback requirement for the C-R Regional Commercial zone district is satisfied.

17.18.070 Distances Between Structures

The minimum distance between a structure used solely for residential purposes and another structure shall be 10 feet, except as provided by the building code. There are no residential structures on site.

17.18.080 Height of Structures

The maximum height of structures in the C-R Regional Commercial zone district is 35 feet. The maximum structure height is approximately 20 feet. No site modifications will increase the maximum height of the structure. The structure does not exceed the C-R Regional Commercial zone district

height limitations.

17.18.090 Driveways

Whenever possible, developments shall share driveways to minimize the number of driveways on public streets. The site is fully developed and has no existing driveways on site, but utilizes three existing driveways shared via cross access through a recorded development agreement with the existing shopping center. There are no changes proposed to the existing driveways; therefore, the driveway requirements have been satisfied.

17.18.100 Off-Street Parking

There are 31 parking spaces provided for the site. In accordance with Section 17.54.040, integrated shopping centers shall provide parking at a ratio of one space per 350 square feet of building space. The building square footage is approximately 6,000 square feet. Based on the ratio, the current parking total exceeds the requirement.

Calculation:

6,000 square feet of building space ÷ 350 square feet = 17.1

17.1 rounds down to 17 parking stalls minimum

The proposed business will occupy 2,019 sq. ft. within the existing building. The applicant does not propose an increase to the existing square footage; therefore, additional parking is not required. The current number of parking spaces exceeds the number of parking spaces required. Additionally, the site has access to shared parking on adjacent properties within the existing shopping center through a recorded development agreement.

17.18.110 Usable Open Space

New developments shall provide a common outdoor, shaded sitting area for use by customers. This is not a new development; therefore, no additional usable open space is required.

17.18.120 Landscaping

Landscaping in the C-R Regional Commercial zone district shall be provided and permanently maintained in a setback area not less than 15 feet from a lot line adjoining a street. Parking areas are to have one tree placed at every four lineal parking spaces. Landscaped areas shall be distributed throughout the parking area and peripheral areas to the extent practical in consideration of the size and design of the parking area. There is existing landscaping throughout the parking area and within the front setback area. There are trees placed between at least every four lineal parking spaces where feasible. The location of trees within the existing parking area will be maintained. There are no changes proposed to the existing landscaping. The landscaping requirements are satisfied.

17.18.130 Screening, Fences, and Walls

Properties in the C-R Regional Commercial zone district shall meet the screening, fences, and walls standards in Section 17.18.130 of the Hanford Municipal Code. A block wall with a minimum height of seven feet shall be provided along any side or rear lot line that abuts an R-L, R-M, R-H, OR, PF, AP, or CO zone district. No portion of the property is adjacent to any of the stated zone districts;

therefore, no block wall is required along any lot lines. No fence or wall shall be placed in front of or within any landscaped area located next to a street. There are no existing or proposed fences or walls within any landscaped area located adjacent to the street. The project satisfies all screening, fence, and wall regulations for the C-R Regional Commercial zone district.

17.18.140 Signs

All signage shall meet the standards set in Chapter 17.56 of the Hanford Municipal Code. For permanent building signs, there is no limit to the number of signs allowed for each business; the allowed square footage per building frontage is cumulative. Establishments with a primary building frontage less than 300 feet may have a permanent sign with a size of two square feet per one lineal foot up to a maximum of 350 square feet along the primary frontage, with 50 square feet allowed regardless of frontage length. Secondary building frontages may have a permanent sign with a size of one square foot per lineal foot up to a maximum of 200 square feet per secondary frontage, with 35 square feet allowed regardless of frontage length. For permanent freestanding signs, a maximum of one sign is allowed per establishment. The face of the sign may be a maximum of 40 square feet, with a height of: six feet if set back 10 feet from the property line, five feet if set back five feet from the property line, and four feet if set back zero feet from the property line. An additional freestanding sign is permitted on sites within an integrated shopping center. This additional sign may be up to 350 square feet in size, with a maximum height not greater than 1.5 times the average height of the building.

Signage requires a separate application and will be evaluated at the time of submittal.

17.18.150 General Provisions and Standards

In the C-R Regional Commercial zone district, all businesses, services, and processes shall be conducted entirely within a completely enclosed permanently fixed structure, except where specifically permitted by this title. The proposed business will operate entirely within the existing building. An outdoor commercial recreation facility would not be permitted in the C-R Regional Commercial zone district.

All requirements of the C-R Regional Commercial zone district, prescribed by Chapter 17.18 of the Hanford Municipal Code, are satisfied.

Operating Standards

The applicant has provided an operational statement (see **Attachment 2**). Booking online or in person, guests will be able purchase tickets for either all-day access including re-entry with play sessions being scheduled in one-hour blocks, unlimited visits per month, 10 visits with a punch card without committing to a monthly membership, two-hour party area reservations, or exclusive use of the entire playground. Daily ticket limits will be implemented to ensure equal playtime periods for guests purchasing open play sessions and to maintain building occupancy requirements. Wristbands with a child's name, and date and time for re-entry will also be provided to track one-hour play sessions. The proposed operating hours will be 9:00 a.m. - 7:00 p.m. on Tuesday – Sunday, and either 12:00 p.m. - 7:00 p.m. or 9:00 a.m. - 5:00 p.m. on Monday, including designated play hours for children with special needs and disabilities. Adult supervision will be required at all times, with guests also required to sign a waiver. Additionally, the Fire Department is requesting that signage is posted in a conspicuous spot stating that children must be attended by all time by parents. Pre-packaged snacks and drinks will be available in the facility.

The applicant has an existing location in Visalia. While the exact structures are to be determined, play equipment in Hanford will be similar to the existing equipment in Visalia, shown in Figure 5 below.

Figure 5: Paradise Playland Interior in Visalia





The space will feature age-appropriate play structures, sensory zones, and creative play areas, fostering cognitive, motor, and social skills while providing a welcoming community hub for families.

All proposed operations and conditions are consistent with the Zoning Ordinance and the General Plan, since this business will provide an entertainment space for children within a large-format shopping center development that supports the area, and will ensure a safe environment for all guests.

FINDINGS FOR APPROVAL: CONDITIONAL USE PERMIT NO. 0050-25

Conditional Use Permit No. 0050-25

In taking action on a Conditional Use Permit, the Planning Commission must make the appropriate findings, in accordance with Section 17.80.030 of the Hanford Municipal Code:

1. The proposed use would not impair the integrity and character of the zoning district in which it is to be located;

ANALYSIS: The proposed use will not impair the integrity and character of the C-R Regional Commercial zone district. The use is consistent with the regulations set forth in Chapter 17.18 of the Hanford Municipal Code for the C-R Regional Commercial zone district. An indoor playground is classified as a commercial recreation facility, indoor, which is listed as a permitted use with the approval of a Conditional Use Permit in the C-R Regional Commercial zone district, as prescribed in the Land Use Table in Section 17.08.030. There is an existing indoor commercial recreation facility within the C-R Regional Commercial zone district, Urban Air at the Hanford Mall.

2. The proposed use would be compatible with existing land uses and future permitted land uses within the zoning district in which the proposed use is to be located;

ANALYSIS: The proposed indoor playground is compatible with existing and future permitted land uses in the C-R Regional Commercial zone district. The use is consistent with the regulations set forth in Chapter 17.18 of the Hanford Municipal Code for the C-R Regional Commercial zone district. In accordance with General Plan Policy L48, typical uses in the Regional Commercial land use designation include goods, entertainment, and services that benefit from the market synergy that occurs when the uses are located in close proximity to each other. Typical uses include retail sales in big box or large format buildings, shopping malls, eating establishments, and service stations. Prohibit uses that typically provide only day-to-day goods and services. The use of the site for an indoor playground supports this policy, as it is entertainment that benefits from the market synergy that occurs when uses are located in close proximity to each other. There is an existing indoor commercial recreation facility within the C-R Regional Commercial zone district, Urban Air at the Hanford Mall.

3. The proposed use is consistent with the General Plan;

ANALYSIS: In accordance with General Plan Policy L47, the purpose of the Regional Commercial land use designation is to provide a variety of commercial goods, entertainment, and services in large-format shopping centers for both the Hanford community and the larger region outside of Hanford. The use of the site for an indoor playground supports this policy, as an indoor playground provides entertainment that will be located within a large-format shopping center development to support both the Hanford community and the larger region outside of Hanford. In accordance with General Plan Policy L48, typical uses in the Regional Commercial land use designation include goods, entertainment, and services that benefit from the market synergy that occurs when the uses are located in close proximity to each other. Typical uses include retail sales in big box or large format buildings, shopping malls, eating establishments, and service stations. Prohibit uses that typically provide only day-to-day goods and services. The use of the site for an indoor playground supports this policy, as it is entertainment that benefits from the market synergy that occurs when uses are located in close proximity to each other.

4. There will not be significant effects upon the quality of the environment and natural resources;

ANALYSIS: This project is categorically exempt from further environmental review, as per Section 15301 Existing Facilities of the California Environmental Quality Act (CEQA) Guidelines. A Notice of Exemption has been prepared and is attached as **Attachment 3**.

5. The proposed location, size, design, and operating characteristics of the proposed use would not be detrimental to the public interests, health, safety, convenience, or welfare of the city and that any incompatible impacts of the proposed use are mitigated by conditions of approval.

ANALYSIS: This application has been reviewed and evaluated for conformity with the requirements of Chapter 17.18 of the Hanford Municipal Code. The use of this site for an indoor playground is compliant with the Hanford Municipal Code. Any improvements required for public health, safety, and welfare have been applied to the project as conditions of approval in the resolution.

PUBLIC COMMENTS

A Notice of Public Hearing for a Conditional Use Permit was noticed in the local newspaper on October 3, 2025 and mailed to property owners within 300 feet of the project site on October 2, 2025. No comments were received, as of the date of preparation of this report.

ENVIRONMENTAL ASSESSMENT

This project is categorically exempt from further environmental review, as per Section 15301 Existing Facilities of the California Environmental Quality Act (CEQA) Guidelines. There are no exceptions to this exemption, as per Section 15300.2 Exceptions of the California Environmental Quality Act (CEQA) Guidelines. A Notice of Exemption has been prepared and is attached as Attachment 3.

CONDITIONS OF APPROVAL

Project approval shall be subject to the conditions below, as well as conditions from the Building Division and Fire Department in the resolution:

Conditional Use Permit No. 0050-25:

1. The applicant operates consistent with the approved operational statement.
2. Use of the site shall comply with the uses listed as permitted, permitted with an administrative approval, conditionally permitted, or temporarily permitted in the land use table presented in Chapter 17.08 of the Hanford Municipal Code. The proposed use shall operate in conformance with the “commercial recreation facility, indoor” definition in Chapter 17.96 of the Hanford Zoning Ordinance.
3. No expansion of the use or structures which would tend to increase the projected scale of operations beyond the scope and nature described in this Conditional Use Permit shall be permitted except upon application for, and approval of, modification of this application according to all procedures and requirements thereof.
4. Approval of this project does not exempt compliance with all applicable sections of the Zoning Ordinance, Public Works Improvement Standards, fees, or other City Ordinances.
5. Any site construction and operations shall comply with all applicable sections of the California Building and Fire Codes.

RECOMMENDATION

Staff recommends that the Planning Commission:

1. Adopt Resolution No. 2025-28, approving Conditional Use Permit No. 0050-25.

Applicant:

Keil Joson
2461 E. Lacey Blvd. Suite 109
Hanford, CA 93230

Property Owner:

198/43 LLC
265 E. River Park Circle Ste. 270
Fresno, CA 93720

ATTACHMENTS:

1. Resolution No. 2025-28
2. Attachment 1 - Site Plan and Floor Plan
3. Attachment 2 - Operational Statement
4. Attachment 3 - Notice of Exemption No. 2025-74
5. Assessor's Map

RESOLUTION NO. 2025-28

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF HANFORD APPROVING CONDITIONAL USE PERMIT NO. 0050-25, A REQUEST TO OPERATE AN INDOOR PLAYGROUND FOR CHILDREN AGED 0-5 WITHIN AN EXISTING 2,019-SQUARE- FOOT SUITE IN THE C-R REGIONAL COMMERCIAL ZONE DISTRICT. THE PROJECT IS LOCATED AT 2461 E. LACEY BLVD. SUITE 109 (APN 016-320-014).

At a regular meeting of the City of Hanford Planning Commission duly called and held on October 14, 2025 on motion of Commissioner _____, seconded by Commissioner _____, and duly carried, the following resolution was adopted:

WHEREAS, Conditional Use Permit No. 0050-25, a request to operate an indoor playground for children aged 0-5 within an existing 2,019-square-foot suite in the C-R Regional Commercial zone district, as shown in **Exhibit A**, has been reviewed by the Planning Commission of the City of Hanford in accordance with Title 17.80 of the Hanford Municipal Code; and

WHEREAS, the project is located at 2461 E. Lacey Blvd. Suite 109 (APN 016-320-014); and

WHEREAS, staff, the various governmental departments, and the Planning Commission have given careful consideration to this conditional use permit and have made recommendations thereon; and

WHEREAS, the project is exempt from environmental review, per Section 15301 Existing Facilities of the California Environmental Quality Act of the California Environmental Quality Act (CEQA) Guidelines and a Notice of Exemption has been prepared; and

WHEREAS, on the basis of the facts and evidence provided in the staff report and the written and oral evidence presented at the public hearing, the Planning Commission hereby makes the following findings pursuant to Section 17.80.030 of the Hanford Municipal Code:

1. The proposed use would not impair the integrity and character of the zoning district in which it is to be located;

ANALYSIS: The proposed use will not impair the integrity and character of the C-R Regional Commercial zone district. The use is consistent with the regulations set forth in Chapter 17.18 of the Hanford Municipal Code for the C-R Regional Commercial zone district. An indoor playground is classified as a commercial recreation facility, indoor, which is listed as a permitted use with the approval of a Conditional Use Permit in the C-R Regional Commercial zone district, as prescribed in the Land Use Table in Section 17.08.030. There is an existing indoor commercial recreation facility within the C-R Regional Commercial zone district, Urban Air at the Hanford Mall.

2. The proposed use would be compatible with existing land uses and future permitted land uses within the zoning district in which the proposed use is to be located;

ANALYSIS: The proposed indoor playground is compatible with existing and future permitted land uses in the C-R Regional Commercial zone district. The use is consistent with the regulations set forth in Chapter 17.18 of the Hanford Municipal Code for the C-R Regional

Commercial zone district. In accordance with General Plan Policy L48, typical uses in the Regional Commercial land use designation include goods, entertainment, and services that benefit from the market synergy that occurs when the uses are located in close proximity to each other. Typical uses include retail sales in big box or large format buildings, shopping malls, eating establishments, and service stations. Prohibit uses that typically provide only day-to-day goods and services. The use of the site for an indoor playground supports this policy, as it is entertainment that benefits from the market synergy that occurs when uses are located in close proximity to each other. There is an existing indoor commercial recreation facility within the C-R Regional Commercial zone district, Urban Air at the Hanford Mall.

3. The proposed use is consistent with the General Plan;

ANALYSIS: In accordance with General Plan Policy L47, the purpose of the Regional Commercial land use designation is to provide a variety of commercial goods, entertainment, and services in large-format shopping centers for both the Hanford community and the larger region outside of Hanford. The use of the site for an indoor playground supports this policy, as an indoor playground provides entertainment that will be located within a large-format shopping center development to support both the Hanford community and the larger region outside of Hanford. In accordance with General Plan Policy L48, typical uses in the Regional Commercial land use designation include goods, entertainment, and services that benefit from the market synergy that occurs when the uses are located in close proximity to each other. Typical uses include retail sales in big box or large format buildings, shopping malls, eating establishments, and service stations. Prohibit uses that typically provide only day-to-day goods and services. The use of the site for an indoor playground supports this policy, as it is entertainment that benefits from the market synergy that occurs when uses are located in close proximity to each other.

4. There will not be significant effects upon the quality of the environment and natural resources;

ANALYSIS: This project is categorically exempt from further environmental review, as per Section 15301 Existing Facilities of the California Environmental Quality Act (CEQA) Guidelines. A Notice of Exemption has been prepared.

5. The proposed location, size, design, and operating characteristics of the proposed use would not be detrimental to the public interests, health, safety, convenience or welfare of the city and that any incompatible impacts of the proposed use are mitigated by conditions of approval.

ANALYSIS: This application has been reviewed and evaluated for conformity with the requirements of Chapter 17.18 of the Hanford Municipal Code. The use of this site for an indoor playground is compliant with the Hanford Municipal Code. Any improvements required for public health, safety, and welfare have been applied to the project as conditions of approval in the resolution.

THEREFORE, BE IT RESOLVED that Conditional Use Permit No. 0050-25 be approved, subject to the conditions presented in **Exhibit B**, and the conditions below:

1. The applicant operates consistent with the approved operational statement, attached as **Exhibit C**.

2. Use of the site shall comply with the uses listed as permitted, permitted with an administrative approval, conditionally permitted, or temporarily permitted in the land use table presented in Chapter 17.08 of the Hanford Municipal Code. The proposed use shall operate in conformance with the “commercial recreation facility, indoor” definition in Chapter 17.96 of the Hanford Zoning Ordinance.
3. No expansion of the use or structures which would tend to increase the projected scale of operations beyond the scope and nature described in this Conditional Use Permit shall be permitted except upon application for, and approval of, modification of this application according to all procedures and requirements thereof.
4. Approval of this project does not exempt compliance with all applicable sections of the Zoning Ordinance, Public Works Improvement Standards, fees, or other City Ordinances.
5. Any site construction and operations shall comply with all applicable sections of the California Building and Fire Codes.

EXPIRATION

That this Conditional Use Application Permit become null and void two (2) years after the effective date of approval, unless, prior to the expiration, the use for which the permit was approved has commenced. Prior to expiration of a permit, a person having authority to file an application may file a written request with the Community Development Director for extension of a permit that may otherwise expire. The request for extension will be taken to the Planning Commission, who may extend the expiration of the permit by one year.

PASSED AND ADOPTED at a regular meeting of the Hanford City Planning Commission by the following vote:

AYES:	Commissioners
NOES:	Commissioners
ABSTAIN:	Commissioners
ABSENT:	Commissioners

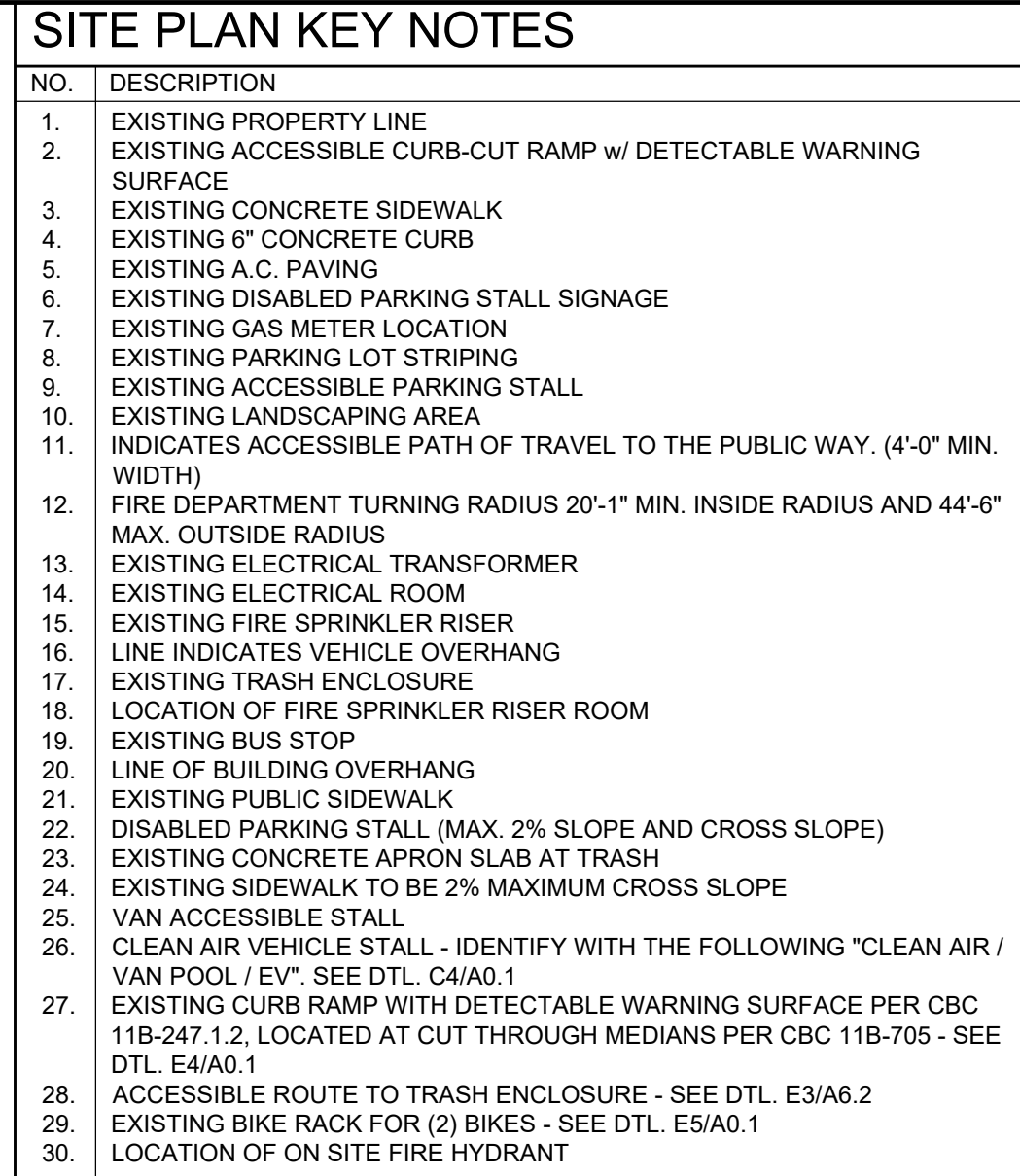
STATE OF CALIFORNIA)
COUNTY OF KINGS) ss
CITY OF HANFORD)

I, **Jason Waters**, Secretary of the City of Hanford Planning Commission, do hereby certify the foregoing Resolution was duly passed and adopted by the Planning Commission of the City of Hanford at a regular meeting thereof held on the 14th day of October 2025.

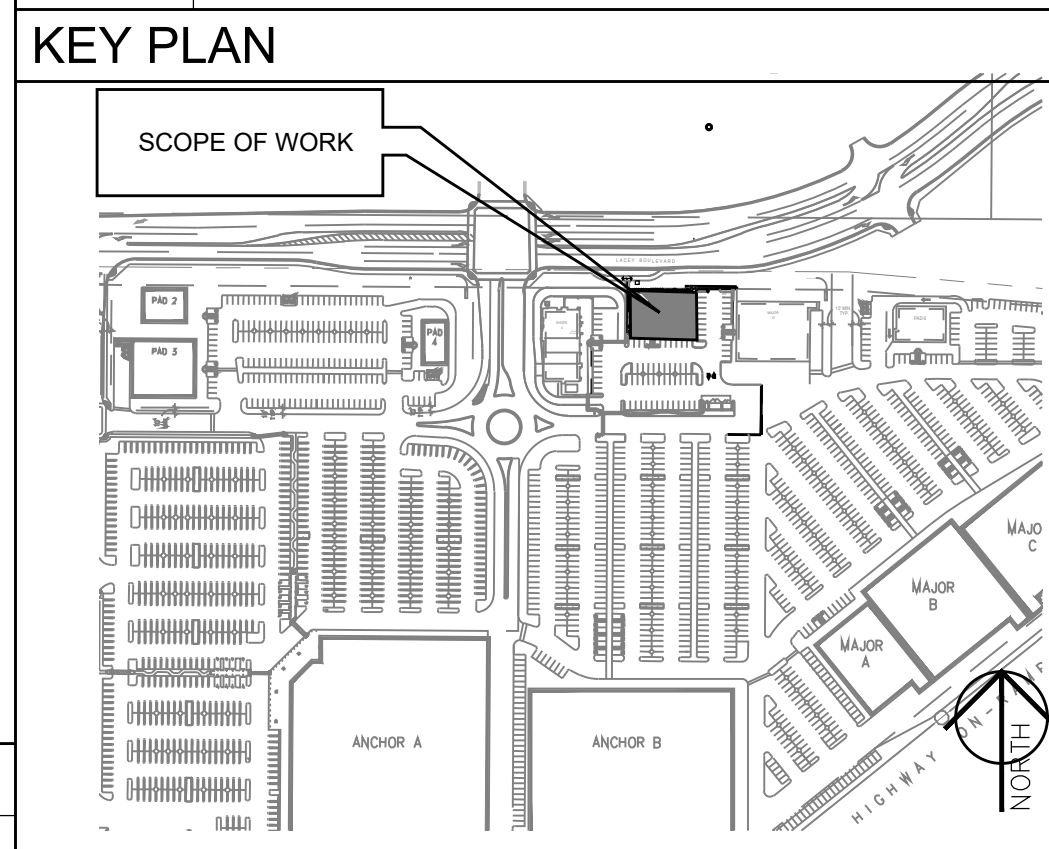
Jason Waters, Secretary

Exhibit A
Floor Plan

CAL GREEN NOTES	FIRE DEPARTMENT NOTES	SITE PARKING DATA	BUILDING DATA	PROJECT DATA	SHEET INDEX	REVISION SCHEDULE	PROJECT TEAM
1. PER SECTION 301.3, PROJECT VALUATION IS UNDER \$200,000. 2. PER SECTION 301.3.1, PLUMBING FIXTURES SHALL MEET NON-RESIDENTIAL CAL GREEN STANDARDS.	1. ALL ELECTRICAL, MECHANICAL AND BUILDING TRADES SHALL BE INSTALLED PER THE CALIFORNIA FIRE CODE, CHAPTER 9 AND NFPA 70 AND SHALL BE INSPECTED BY THE BUILDING INSPECTOR FOR COMPLIANCE WITH THE CALIFORNIA MECHANICAL AND ELECTRICAL CODES. 2. FIRE SPRINKLER SYSTEM SHALL BE DONE UNDER A SEPARATE FIRE DEPARTMENT PERMIT 3. CEILING TILES AND HARD LID CEILINGS SHALL NOT BE INSTALLED UNTIL THE FIRE DEPARTMENT HAS CONDUCTED ITS INSPECTIONS FOR THE FIRE SPRINKLER SYSTEM AND AFTER THE BUILDING DEPARTMENT HAS GIVEN THEIR APPROVAL TO DROP AND INSTALL CEILINGS. 4. HVAC UNITS CONTAINING DUCT SMOKE DETECTORS SHALL BE TESTED IN THE PRESENCE OF THE FIRE INSPECTOR. (THESE DEVICES SHALL BE PRE-TESTED PRIOR TO SCHEDULING AN INSPECTION)	PER C.O.H. MUNICIPAL CODE 17.54.040 INDOOR COMMERCIAL RECREATION FACILITY - 1 SPACE PER 300 SQUARE FEET 2,019 S.F. / 300 = 6.73 STALLS = PROVIDE 7 STALLS <u>PARKING STALLS (SCOPE OF WORK LIMITS)</u> : STANDARD EXISTING 5 STALLS ACCESSIBLE (EXISTING) 2 STALLS TOTAL STALLS (THIS PHASE): 7 STALLS TOTAL SPACES 7 SPACES	BUILDING ANALYSIS: APN: _____ ZONEING: C-R BUILDING TYPE: VB - SPRINKLERED OCCUPANCY: B OCCUPANCY SEPARATION: (DEMISING WALL - NON RATED) BUILDING SQUARE FOOTAGE ANALYSIS T.I. BUILDING SQUARE FOOTAGE: NET LEASABLE: 2,019 S.F.	ADDRESS: 2461 E. LACEY BLVD., STE 109 HANFORD, CA 93230 LOCATION: HANFORD MARKET PLACE, LACY BLVD & HWY. 43, HANFORD, CA APN: _____ ZONING: SC, PHD AND CO CONSTRUCTION: V-B SPRINKLERED	OWNER: ATOWN INVESTORS LLC C/O JOHN KASHIAN 8325 E. RIVER PARK CIRCLE #270 FRESNO, CA 93720 PH: 559.492.7127 EMAIL: JKASHIAN@CADDISPROPERTIES.COM ARCHITECT: RONALD G. PRYCE 1536 RICHERT AVE. CLOVIS, CA 93611 PH: 559.291.9403 LIC NO. C14974 EMAIL: RG.PRYCE@YAHOO.COM MECHANICAL / PLUMBING: PETER CHEN, P.E. SPIRIT ENGINEERING SHEET DESCRIPTION ARCHITECTURAL A0.0 COVER SHEET / SITE PLAN ○ A0.1 OCCUPANCY / EXITING / SCH. / DTLS. / INT. ELEV. ○ A2.0 FLOOR PLAN / REFLECTED CEILING / RM. SCH. ○ A6.0 DETAILS ○ A6.1 DETAILS ○ MECHANICAL M-1 MECHANICAL NOTES AND ABBREVIATIONS	Consultant: Project Name:	



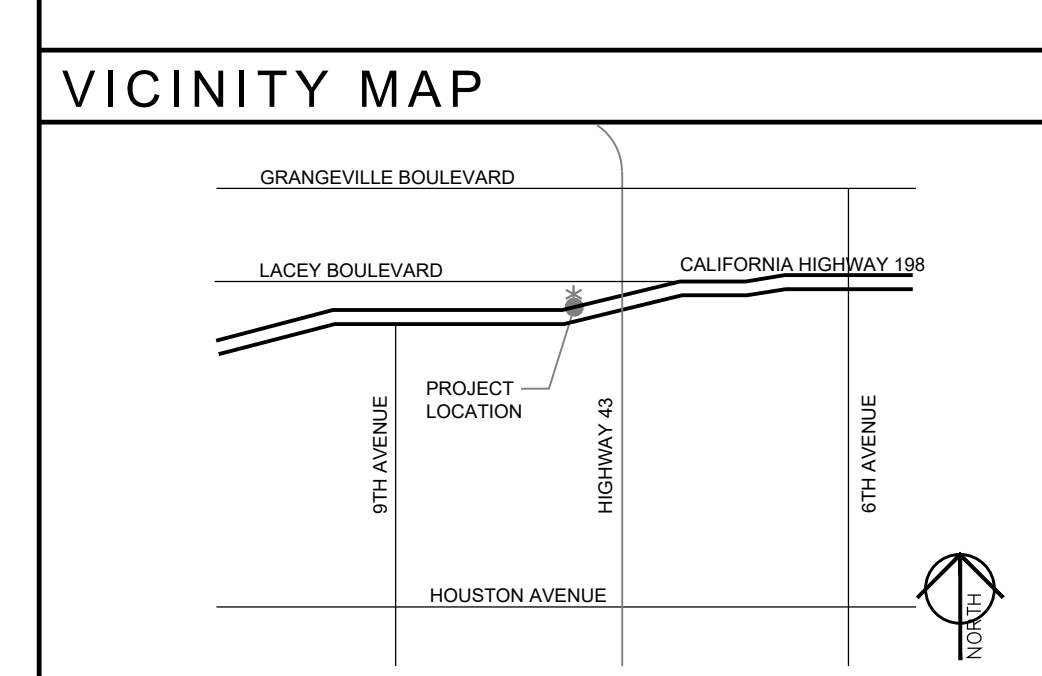
SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	LINE OF ACCESSIBLE ROUTE OF TRAVEL
	INDICATES EXIT TO EXTERIOR PATH OF TRAVEL
	INDICATES SCOPE OF WORK
	LINE OF ACCESSIBLE PATH OF TRAVEL TO EXISTING TRASH ENCLOSURE OR ADJACENT FUTURE BUILDING



SHEET INDEX				REVISION SCHEDULE	
				BACK CHECK 1 8-1-25	
					
SHEET		DESCRIPTION			
ARCHITECTURAL					
A0.0	COVER SHEET / SITE PLAN			o	
A0.1	OCCUPANCY / EXISTING / SCH. / DTLS. / INT. ELEV.			o	
A2.0	FLOOR PLAN / REFLECTED CEILING / RM. SCH.			o	
A6.0	DETAILS				
A6.1	DETAILS				
MECHANICAL					
M-1	MECHANICAL NOTES AND ABBREVIATIONS				
M-2	MECHANICAL SCHEDULES AND DETAILS				
M-3	TITLE 24 CALCULATIONS			o	
M-4	MECHANICAL PLAN			o	

PLUMBING			
P-1	PLUMBING NOTES AND SCHEDULES		
P-2	PLUMBING DETAILS		
P-3	PLUMBING PLANS		
ELECTRICAL			
E1.0	GENERAL NOTES, LEGEND		
E2.0	ELECTRICAL PLANS, NOTES		
E3.0	ELECTRICAL DETAILS	●	
E4.0	ELECTRICAL SPECIFICATIONS		
E4.1	ELECTRICAL SPECIFICATIONS		
E5.0	T-24 COMPLIANCE FORMS		

PROJECT DESCRIPTION	
A NEW TENANT IMPROVEMENT IN AN EXISTING WOOD FRAMED SHELL BUILDING:	
- NO MODIFICATIONS TO THE EXISTING SHELL	
- INTERIOR FRAMED WITH METAL STUDS AND GYPSUM BOARD	



APPLICABLE CODES

2022	CALIFORNIA ADMINISTRATION CODE (CAC) PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2022	CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC)
2022	CALIFORNIA ELECTRICAL CODE (CEC) PART 8, TITLE 24, CCR BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC) NFPA70
2022	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, CCR BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC)
2022	CALIFORNIA PLUMBING CODE (CPC) PART 8, TITLE 24, CCR BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC)
2022	CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC)
2022	CALIFORNIA ENERGY CODE PART 6, TITLE 24 C.C.R.
2022	NFPA 13 2016 NATIONAL FIRE PROTECTION ASSOCIATION, 101 LIFE SAFETY CODE NFPA 13R, 130 ADOPTED CFC (2022) NFPA 13 EDIT
2022	CALIFORNIA REFERENCED STANDARDS TITLE 24 C.C.R.
2022	CALIFORNIA GREEN BUILDING CODE STANDARDS PART 11, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC) PARTIAL LIST OF APPLICABLE NFPA STANDARDS NFPA 13-AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED) NFPA 70-NATIONAL ELECTRICAL CODE NFPA 72-NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) NFPA 90A-INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS NFPA 101-LIFE SAFETY CODE

PROJECT TEAM		Consultant:
OWNER: ATOWN INVESTORS LLC C/O JOHN KASHIAN 265 E. RIVER PARK CIRCLE #270 FRESNO, CA. 93720 PH: 559-492-7127 EMAIL: JKASHIAN@CADDISPROPERTIES.COM		Project Name:
ARCHITECT: RONALD G. PRYCE 1538 RICHERT AVE. CLOVIS, CA 93611 PH: 559-291-9403 LIC. NO. C14974 EMAIL: RG.PRYCE@YAHOO.COM		
MECHANICAL / PLUMBING: PETER CHEN, P.E. SPIRIT ENGINEERING 1215 W. IMPERIAL HIGHWAY, SUITE 223 BREA, CA 92621 PHONE: 949-232-5286 FAX: 928-268-5286 EMAIL: PETER@SPIRIT-ENG.COM		

ELECTRICAL:
TONY VU
IGNISIO STUDIOS, LLC
15141 WOODLAWN AVE.
TUSTIN, CA 92780
PH: 657.231.6247
EMAIL: TONY.VU@IGNISIO.COM

CODE ANALYSIS

THE PROJECT IS A "B" OCCUPANCY PER CBC 304.1
(TRAINING AND SKILL DEVELOPMENT)

OCCUPANCY TO BE POSTED (49 OCCUPANTS MAXIMUM)

DEFERRED SUBMITTAL

ITEM 1:
FIRE SPRINKLER SYSTEM IS TO BE
SUBMITTED TO THE FIRE DEPARTMENT AND IS
UNDER SEPARATE REVIEW AND PERMIT

CAL-GREEN

ITEM 1:
FIRE SPRINKLER SYSTEM IS TO BE
SUBMITTED TO THE FIRE DEPARTMENT AND IS
UNDER SEPARATE REVIEW AND PERMIT

COVER / SITE PLAN

PROJECT DEVELOPMENT

Date

Issued For

7-3-25

PLAN CHECK

8-1-25

BACK CHECK 1

REVISIONS

No.

Date

Description

▲1

8-1-25

BACK CHECK 1

JOB NO.

SHEET NO.

2503

DATE

7-3-25

PROJECT COORDINATOR

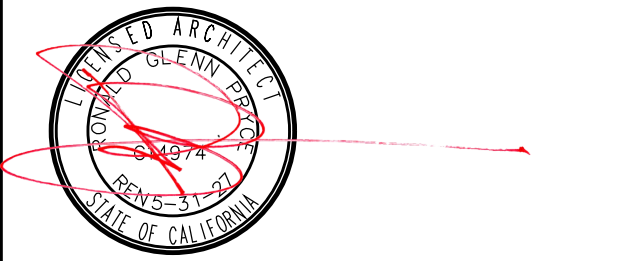
RON PRYCE

SCALE

OF

AS NOTED

A0.0



PROJECT _____

Project Architect Approval:

Consultant:

Project Name:

Tenant improvement for
Hanford Paradi
2461 E. Lacy Blvd., S
Hanford, CA 9322

SHEET

COVER / SITE PLAN

PROJECT DEVELOPMENT	
Date	Issued For
7-3-25	PLAN CHECK
8-1-25	BACK CHECK 1

8-1-25 BACK CHECK 1

REVISIONS		
No.	Date	Description
1	8-1-25	BACK CHECK 1

1 8-1-25 BACK CHECK 1

JOB NO. _____ SHEET NO. _____

2503 _____

DATE _____

7-3-25 _____

PROJECT COORDINATOR _____

RON PRYCE _____

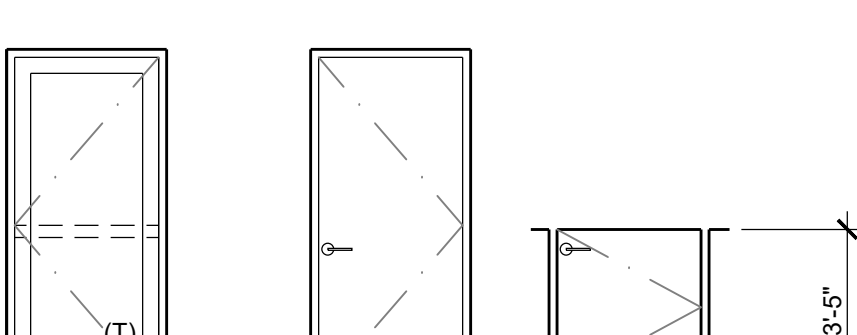
SCALE _____

AS NOTED _____

A0.0

OF _____

DOOR SCHEDULE														
DOOR NO.	TYPE	SIZE	FRAME MAT'L	FRAME FINISH	DOOR MATERIAL	DOOR FINISH	RATING	HEAD	JAMB	SILL	HARD-WARE	LOCK	STOP	REMARKS
(E)100.1	A	3'-0"x7'-0"	AL	AN	AG	AN	--	--	--	--	--	--	--	1,2,4,5,6
(E)101.1	B	3'-0"x7'-0"	--	--	--	--	--	--	--	--	--	--	--	1
(E)102.1	B	3'-0"x7'-0"	--	--	--	--	--	--	--	--	--	--	--	1
100.1	C	3'-0"x3'-5"	WD	PL	WD	PL	--	A2/A6.0	A3/A6.0	A4/A6.0	1	H2	--	3,4,8
104.1	B	3'-0"x7'-0"	AL	AN	WD	PL	--	A2/A6.0	A3/A6.0	A4/A6.0	1	H3	--	3,4
105.1	B	3'-0"x7'-0"	AL	AN	WD	PL	--	A2/A6.0	A3/A6.0	A4/A6.0	1	H2	--	3,4,7

DOOR TYPES				DOOR STOP SCHEDULE				
				ITEM	MODEL NO.	MANUF.	LOCATION	DESCRIPTION
TYPE 'A'				S1	(1270 CXMS)	TRIMCO	WALL	CONVEX WALL BUMPER (ATTACH PER DTL. A5/A6.0)
TYPE 'B'				S2	1298	TRIMCO	MOUNT ON DOOR	LOW WALL STOP
TYPE 'C'				S3	1233	TRIMCO	FLOOR	RAISED FLOOR STOP
HARDWARE SCHEDULE								
HARDWARE GROUP 1 - DOORS: 104.1, 105.1.								
1 1/2 PR.	BUTTS	BB1168 4 7/8 x 1/4"		HAGAR				
1	LOCKSET	PER SCHEDULE		SCHLAGE				
1	STOPS	PER SCHEDULE		TRIMCO				
1	WEATHER SEAL	S88W		PEMKO				

DOOR FINISH SCHEDULE			
FRAME MATERIAL		FRAME FINISH	
AL	ALUMINUM	AN	ANODIZED
WD	WOOD	PL	PLASTIC LAMINATE
DOOR MATERIAL		DOOR FINISH	
AG	ALUMINUM / GLASS	AN	ANODIZED
WD	WOOD	PL	PLASTIC LAMINATE (PL-2)

HARDWARE MANUFACTURER			
HAGER	BUTTS, PULLS	SCHLAGE	LOCKSETS, CYLINDERS, DEAD LOCK, KEYS
NORTON	CLOSERS		
PEMKO	THRESHOLD, DOOR BOTTOM, WEATHER STRIPPING, ASTRAGAL, SMOKEGUARD	TRIMCO	STOPS, PULLS
RIXON	PIVOT / CLOSER	VON DUPRIN	PANIC DEVICE

LOCKSET			
NO.	DESCRIPTION	MODEL	LEVER
H1	PASSAGE SET	AL10S	NEPTUNE
H2	PRIVACY SET	AL40S	NEPTUNE
H3	OFFICE LOCK	D53PD	SPARTA
H4	STORE ROOM LOCK	D80PD	SPARTA

RESTROOM ACCESSORIES						
NO.	DESCRIPTION	MODEL #	MANUF.	MOUNTING	WALL THICKNESS	REMARKS
T1	36" GRAB BAR	3800, TYPE 01	ASI	SURFACE	3 5/8"	1
T2	48" GRAB BAR	3800, TYPE 01	ASI	SURFACE	3 5/8"	1
T3	SEAT COVER DISPENSER	6477	ASI	RECESSED	3 1/2"	2
T4	TOILET TISSUE DISPENSER (DOUBLE)	74022-S	ASI	RECESSED	3 1/2"	2
T5	PAPER TOWEL DISPENSER	6457	ASI	RECESSED	3 1/2"	2

GENERAL NOTES		KEY NOTES	
NO.	DESCRIPTION	NO.	DESCRIPTION
1.	PROVIDE BLOCKING AT GRAB BARS WITH 2x BLOCKING - SEE DTL. B3/A6.0	1.	PROVIDE SOLID BLOCKING
2.	FIELD COORDINATE INSTALLATION REQUIREMENTS PER DETAILS TO MEET ACCESSIBLE REQUIREMENTS	2.	RECESSED MOUNTING - VERIFY STUD DEPTH AND MOUNTING HEIGHT
3.	FOR TYPICAL ACCESSORY MOUNTING HEIGHTS - SEE DTL. E5/A6.0		

ACCESSORY MOUNTING HEIGHTS			

--	--	--	--

E4	SAW CUT SLAB INFILL	D4	LOW KNEE WALL / GATE JAMB
SCALE: 1 1/2" = 1'-0"		SCALE: 3" = 1'-0"	

--	--	--	--

E5		D5	KNEE WALL AT GLAZING
		SCALE: 3" = 1'-0"	

--	--	--	--

C4	LOW KNEE WALL / GATE JAMB	B4	INTERIOR ELEVATIONS
SCALE: 3" = 1'-0"		SCALE: 1/4" = 1'-0"	

--	--	--	--

C5	LOW KNEE WALL	B5	LOW KNEE WALL ELEVATION / FRAMING
SCALE: 3" = 1'-0"		SCALE: 1 1/2" = 1'-0"	

--	--	--	--

C4	LOW KNEE WALL / GATE JAMB	B4	INTERIOR ELEVATIONS
SCALE: 3" = 1'-0"		SCALE: 1/4" = 1'-0"	

--	--	--	--

C5	LOW KNEE WALL	B5	LOW KNEE WALL ELEVATION / FRAMING
SCALE: 3" = 1'-0"		SCALE: 1 1/2" = 1'-0"	

PRYCE
ARCHITECTS

1936 RICHERT
CLOVIS, CA 93611
559.917.5725
FAX 559.439.0708

RONALD G. PRYCE, C14974

The firm of Pryce Architects expressly reserves to
copyright and other applicable property
rights in these plans. These plans are not to be
reproduced, changed, or copied in any form or manner
whatsoever, nor are they to be assigned to a third
party without first obtaining the express written consent
and permission of the Architect. In the event of un-
authorized reuse of these plans by a third party, the
third party shall hold the Architect harmless, and shall
bear the cost of the Architect's legal fees associated
with defending and enforcing these rights. These plans
are and shall remain the exclusive property of Pryce
Architects.

PROJECT

Project Architect Approval:

Consultant:

Project Name:

Tenant improvement for
Hanford Paradise
2461 E. Lacy Blvd., Suite. 109
Hanford, CA 93232

SHEET
OCCUPANCY PLAN /
EXITING PLAN /
SCHEDULES /
DETAILS / INT. ELEV.

PROJECT DEVELOPMENT

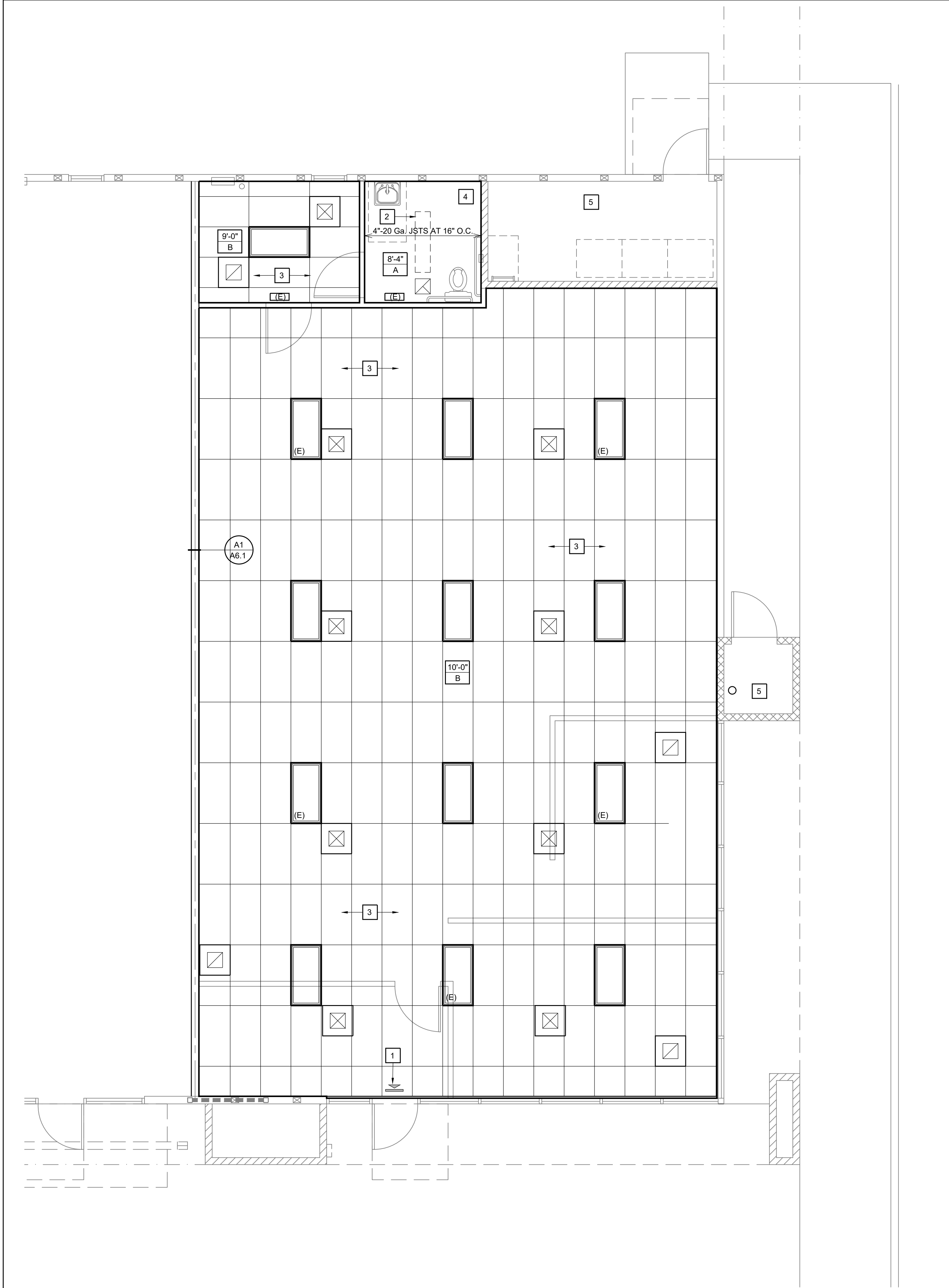
Date	Issued For
7-3-25	PLAN CHECK
8-1-25	BACK CHECK 1

REVISIONS

No.	Date	Description
1	8-1-25	BACK CHECK 1

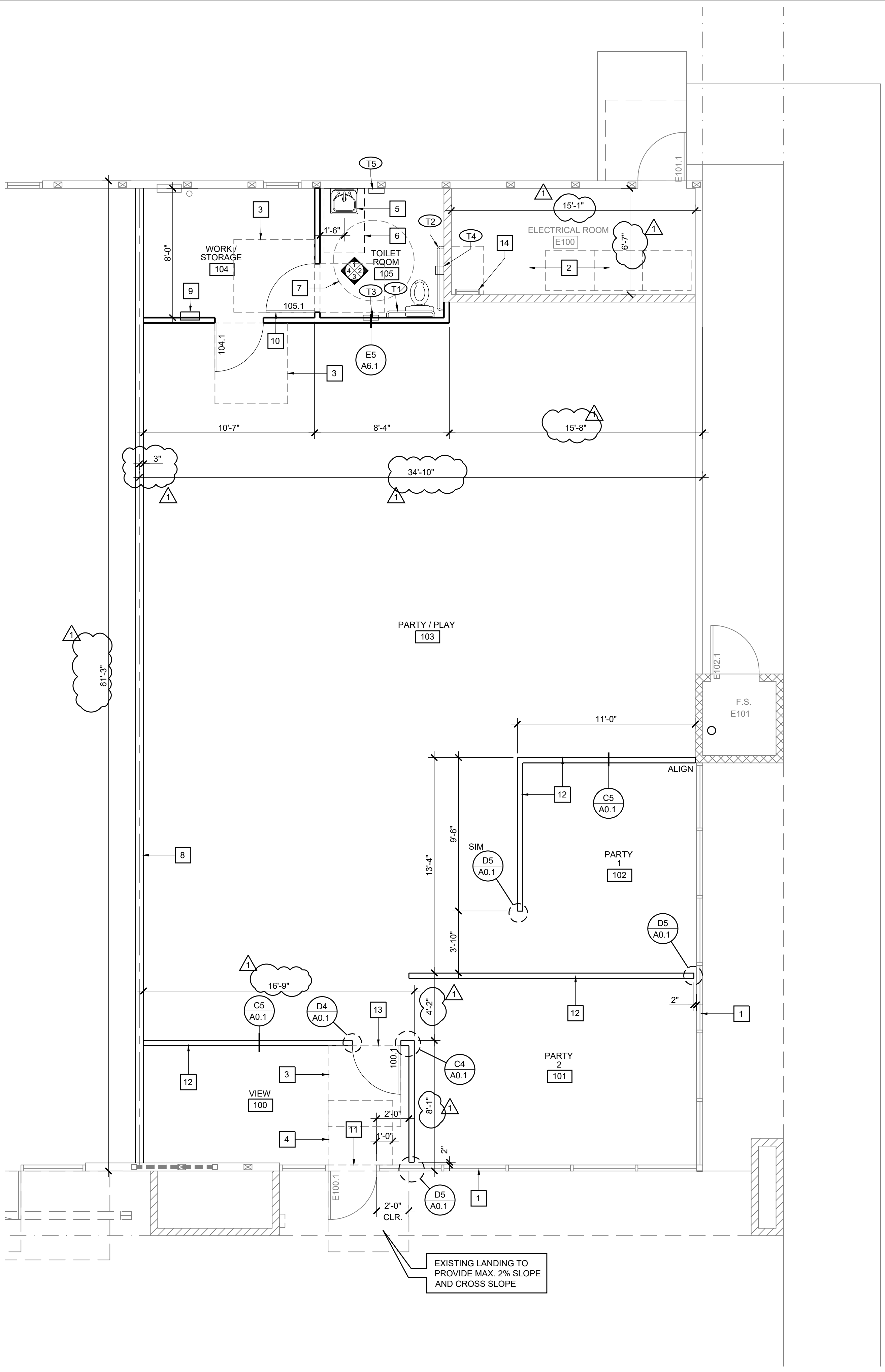
JOB NO. 2503
DATE 7-3-25
PROJECT COORDINATOR RON PRYCE
SCALE AS NOTED

SHEET NO. A0.1
OF



PARTIAL REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

KEYED NOTES		CEILING MATERIAL FINISHES:		SYMBOL LEGEND:	
NO.	DESCRIPTION	NO.	DESCRIPTION	SYMBOL	DESCRIPTION
1.	INDICATES EXIT LIGHTS - SEE ELECTRICAL. EXIT LIGHTS TO BE INTERNALLY ILLUMINATED PER CBC 1013.1 AND SHALL BE PLACED WITHIN THE EXIT SYSTEM NO MORE THAN 100 FT. OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS.	A.	5/8" GYP. BD. OVER JOIST FRAMING A3/A6.1 UNLESS REFERENCED OTHERWISE		2'-0" x 4'-0" ACOUSTICAL CEILING TILE - SEE DTL. E3/A6.1
2.	INDICATES SURFACE MOUNTED LIGHT FIXTURE	B.	2x4" NON-RATED SUSPENDED CEILING SYSTEM "ARMSTRONG" DUNE, 15/16 SQUARE LAY-IN #1773, WITH 15/16" PRELUDE XL GRID (WHITE), PROVIDE 9/16" WIDE #1873 SHADOW WALL ANGLE MOULDING. INSTALL PER DTL. E3/A6.1		2'-0" x 4'-0" RECESSED LIGHT FIXTURE - SEE ELECTRICAL
3.	ACOUSTICAL CEILING SYSTEM. SEE DTL. E3/A6.1				SURFACE MOUNTED LIGHT FIXTURE - SEE ELECTRICAL
4.	GYP. BD. CEILING - FOR TYPICAL FRAMING, SEE DTL. A3/A6.1				ILLUMINATED DIRECTIONAL EXIT SIGN WITH RESERVE POWER, SEE ELECT. DRAWINGS
5.	EXISTING (PART OF SHELL)				INDICATES FINISH CEILING HEIGHT
GENERAL NOTES					INDICATES FINISH MATERIAL - SEE CEILING MATERIAL FINISH SCHEDULE - THIS SHEET
NO.	DESCRIPTION				INDICATES MECHANICAL SUPPLY AIR REGISTER IN ACOUSTICAL CEILING
1.	FOR PARTIAL HEIGHT INTERIOR WALLS SEE DTL. E5/A6.1				INDICATES MECHANICAL RETURN AIR REGISTER IN ACOUSTICAL CEILING
2.	ALL EXTERIOR WALLS TO BE R-19 INSULATION (BATT)				INDICATES MECHANICAL EXHAUST REGISTER IN ACOUSTICAL CEILING
3.	ROOF / CEILING DECK OF OFFICE TO BE R-30 INSULATION / R-11 AT ALL CEILINGS				
4.	ALL INTERIOR WALLS TO BE R-11 SOUND BATT INSULATION				
5.	HANGING OF MECHANICAL DUCTWORK AND SPRINKLER PIPING PER DTL. E5/A6.1				



PARTIAL FLOOR PLAN
SCALE: 1/4"=1'-0"

ROOM SCHEDULE											FINISH SCHEDULE				
	ROOM NAME	FLOORING	BASE	WALL				WAINSCOTT	CEILING		REMARKS	NO.	ITEM	MANUFACTURER	DESCRIPTION
				N	S	E	W		MATL.	FIN.					
	VIEW	CT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	AC-1	--	5	AC-1	ACOUSTICAL	ARMSTRONG	2x4 ACOUSTICAL TILE
	PARTY 2	CT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	AC-1	--	5	CT-1	CARPET TILE	INTERFACE	LIGHT PLAY, TRAVERTINE 50cm x 50cm, NON-DIRECTIONAL
	PARTY 1	CT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	AC-1	--	5	FRP-1	FIBERGLASS REIN. PANEL (+48")	MARLITE	S 490N LIGHT GRAY, SMOOTH TEXTURE
	PARTY / PLAY	CT-1	RB-1	PT-2	PT-1	PT-1	PT-1	--	AC-1	--	--				
	WORKS / STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	AC-1	--	1				
	RESTROOM	SV-1	SV-1 (6")	PT-1	PT-1	PT-1	PT-1	FRP-1	GB-1	PT-1	2,3,4				
KEYED REMARKS															
DESCRIPTION															
PROVIDE "SCHLUTER" AT VCT FLOORING TRANSITION TO CARPET TILE															
PROVIDE 3/8" MIN. RADIUS AT SHEET VINYL TRANSITION FOR 6" COVED BASE UP WALL AT RESTROOM															
PAINT TO BE SEMI-GLOSS AT RESTROOM															
SUBMIT SIGN COLOR SAMPLE TO ARCHITECT FOR COORDINATION															
WOOD CAP TRIM AT KNEE WALL TO BE PT-3															
GENERAL NOTES															
DESCRIPTION															
DOOR FRAMES TO BE _____															
SHEET VINYL FLOORING BY TENANT															
CARPET AND BASE BY TENANT															
VCT AND BASE BY TENANT															
TAPE AND TEXTURE DEMISING WALL BY LANDLORD															
PAINT TO BE EGGSHELL FINISH															

FLOOR PLAN KEY NOTES

1. EXISTING STOREFRONT SYSTEM TO REMAIN.
2. INDICATES EXISTING ELECTRICAL PANEL, WITH 36" CLEAR ZONE - SEE ELECTRICAL
3. INDICATES 60" DEEP CLEAR MANEUVERING CLEARANCE AT PULL SIDE OF DOOR - SEE DTL. E3/A6.0
4. INDICATES 48" DEEP CLEAR MANEUVERING CLEARANCE AT PUSH SIDE OF DOOR - SEE DTL. E3/A6.0
5. NEW LAV. - SEE PLUMBING - FOR ACCESSIBILITY SEE DTL. C5/A6.0
6. INDICATES 30"x48" ACCESSIBLE FLOOR AREA AT FIXTURES
7. 60" MIN. DIA. TURN AROUND CLEARANCE
8. INDICATES EXISTING DEMISING WALL
9. INDICATES RECESSED 2A-108 C FIRE EXTINGUISHER IN SEMI-RECESSED CABINET, (COORDINATE LOCATION W. FIRE DEPARTMENT)
10. RESTROOM TACTILE AND RESTROOM SIGNAGE ON DOOR AND WALL (UNI-SEX) SEE DTL.S. B2, E1/A6.0
11. EXISTING SIGN ABOVE DOOR STATING "THIS DOOR TO REMAIN OPEN DURING BUSINESS HOUR" 1" HIGH LETTERING ON CONTRASTING BACKGROUND
12. INDICATES LOW WALL (+3'-4") WITH GYP. BD. AND A WOOD CAP TRIM
13. GATE WITH LATCHSET - SEE DOOR SCHEDULE
14. EXISTING ROOF ACCESS LADDER (EXISTING SHELL)

WALL LEGEND

SYMBOL	DESCRIPTION
	NEW 4" x 20 Ga. METAL STUD WALL AT 16" O.C. - PARTIAL HEIGHT - BRACE TO STRUCTURE PER DTL. E5/A6.1
	EXISTING 2x6 WOOD STUD WALL AT 16" O.C. (EXTERIOR)
	EXISTING 2x6 WOOD STUD SHEAR WALL
	EXISTING 2x6 WOOD STUD 1 HOUR WALL AT 16" O.C. (FULL HEIGHT)

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	INDICATES DOOR - SEE DOOR SCHEDULE, SHEET A0.1
	(E) INDICATES EXISTING DOOR (WHERE OCCURS)
	INDICATES ROOM NUMBER - SEE SCHEDULE - THIS SHEET
	INDICATES KEYNOTE - SEE KEYNOTED SCHEDULE THIS SHEET
	INDICATES RESTROOM ACCESSORY - SEE SCHEDULE A0.1
	INDICATES INTERIOR ELEVATION - SEE DTL. B4/A0.1

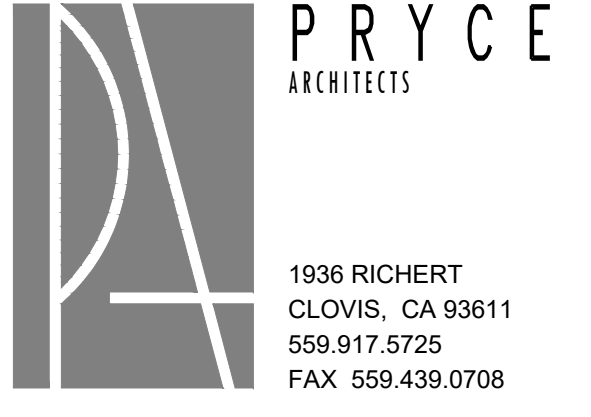
GENERAL FLOOR PLAN NOTES

1. FOR TYPICAL WALL FRAMING, SEE DTL. E5/A6.1
2. FOR SAW CUT SLAB INFILL, SEE DTL. E4/A0.1
3. PROVIDE WATER HEATER EFFICIENCY ON DESIGN PLANS
4. PER CBC 415.2, WATER STATIONS WILL BE PROVIDED IN PLACE OF DRINKING FOUNTAINS, SEE PLUMBING PLANS.
5. FOR RESTROOM DOOR SIGNAGE, SEE DTL.S. B2, E1/A6.0
6. FOR EXIT/ EXIT ROUTE SIGN, SEE DTL. C2/A6.0
7. FOR STANDARD ACCESSORY MOUNTING HEIGHTS, SEE DTL. E5/A6.0
8. FOR SINGLE ACCOMMODATION RESTROOM CLEARANCES, SEE DTL. C5/A6.0
9. ALL BUILDING INSULATION AT EXTERIOR WALLS AND CEILING TO MEET CODE (BY LANDLORD)
10. AIR CONDITIONING, DUCT WORK, SUPPLY / RETURN, BY LANDLORD
11. RESTROOM COLD WATER, LAVATORY, WATER CLOSET AND ACCESSIBLE ACCESSORIES BY LANDLORD
12. RESTROOM CEILING FRAMING, GYP. BD. BY LANDLORD
13. ALL PAINTING BY TENANT

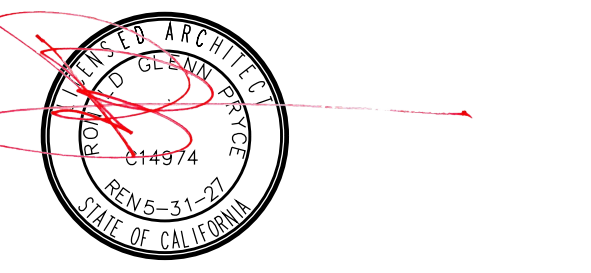
RESTROOM ANALYSIS

CBC TABLE 422.2, EXCEPTION 3:
IN BUSINESSES WITH A TOTAL OCCUPANT LOAD OF 50 OR LESS (1) TOILET PER FACILITY FOR USE BEY ONE PERSON AT A TIME SHALL BE PERMITTED FOR BOTH SEXES.

ITEM	REQUIRED FIXTURES	PROVIDED
W.C. LAVATORIES	1	1



The firm of Pryce Architects expressly reserves to itself all copyright and other intellectual property rights in these plans. These plans are not to be reproduced, changed, or copied in any form or manner whatsoever, nor are they to be assigned to a third party without first obtaining the express written consent and permission of the Architect. In the event of unauthorized reuse of these plans by a third party, the third party shall hold the Architect harmless, and shall bear the cost of the Architect's legal fees associated with defending and enforcing these rights. These plans are and shall remain the exclusive property of Pryce Architects.



PROJECT

Project Architect Approval:

Consultant:

Project Name:

Tenant Improvement for

Hanford Paradise
2461 E. Lacy Blvd., Suite. 109
Hanford, CA 93232

SHEET
FLOOR PLAN /
REFLECTED CELING
SCHEDULES

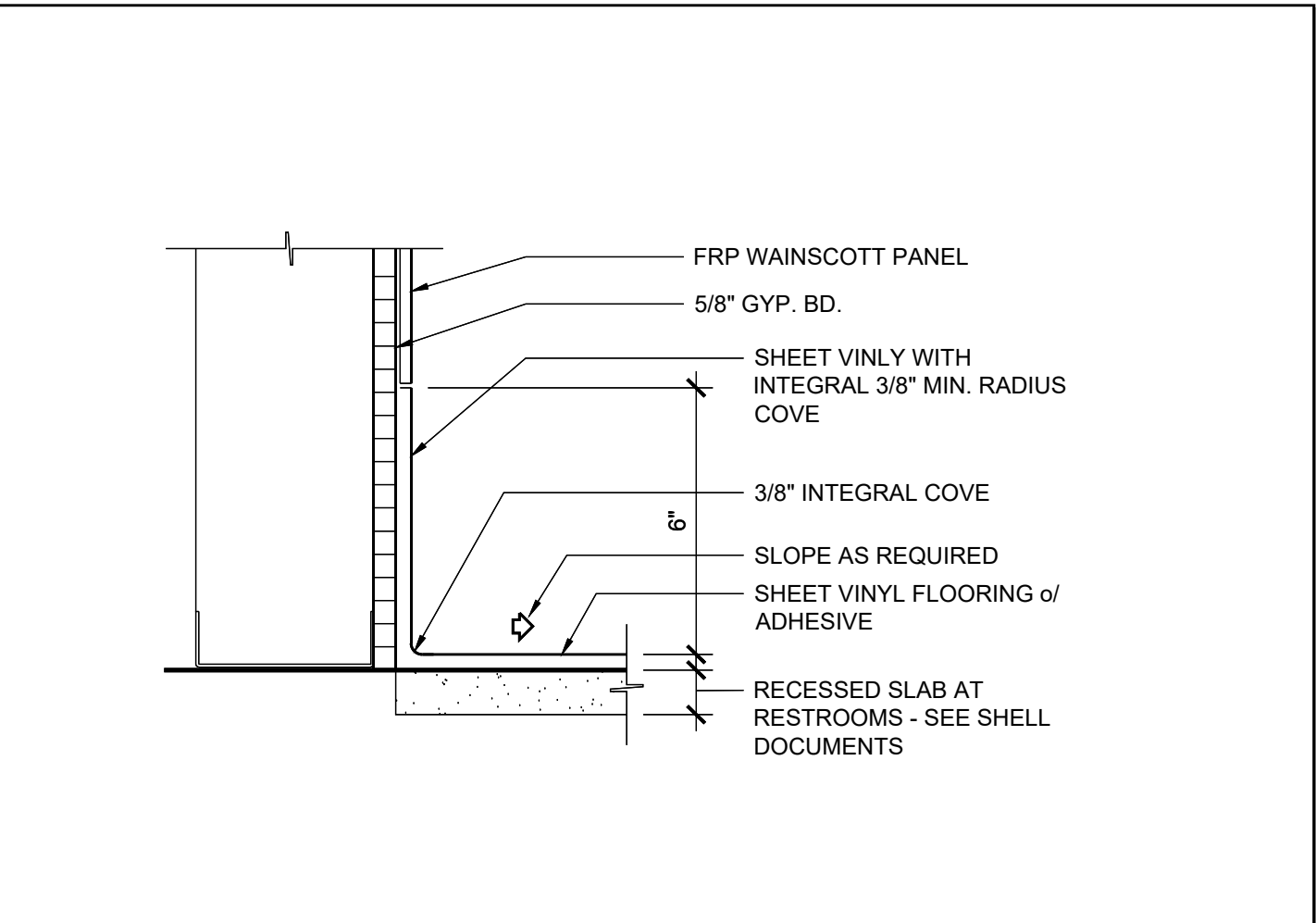
PROJECT DEVELOPMENT

Date	Issued For
7-3-25	PLAN CHECK
8-1-25	BACK CHECK 1

REVISIONS

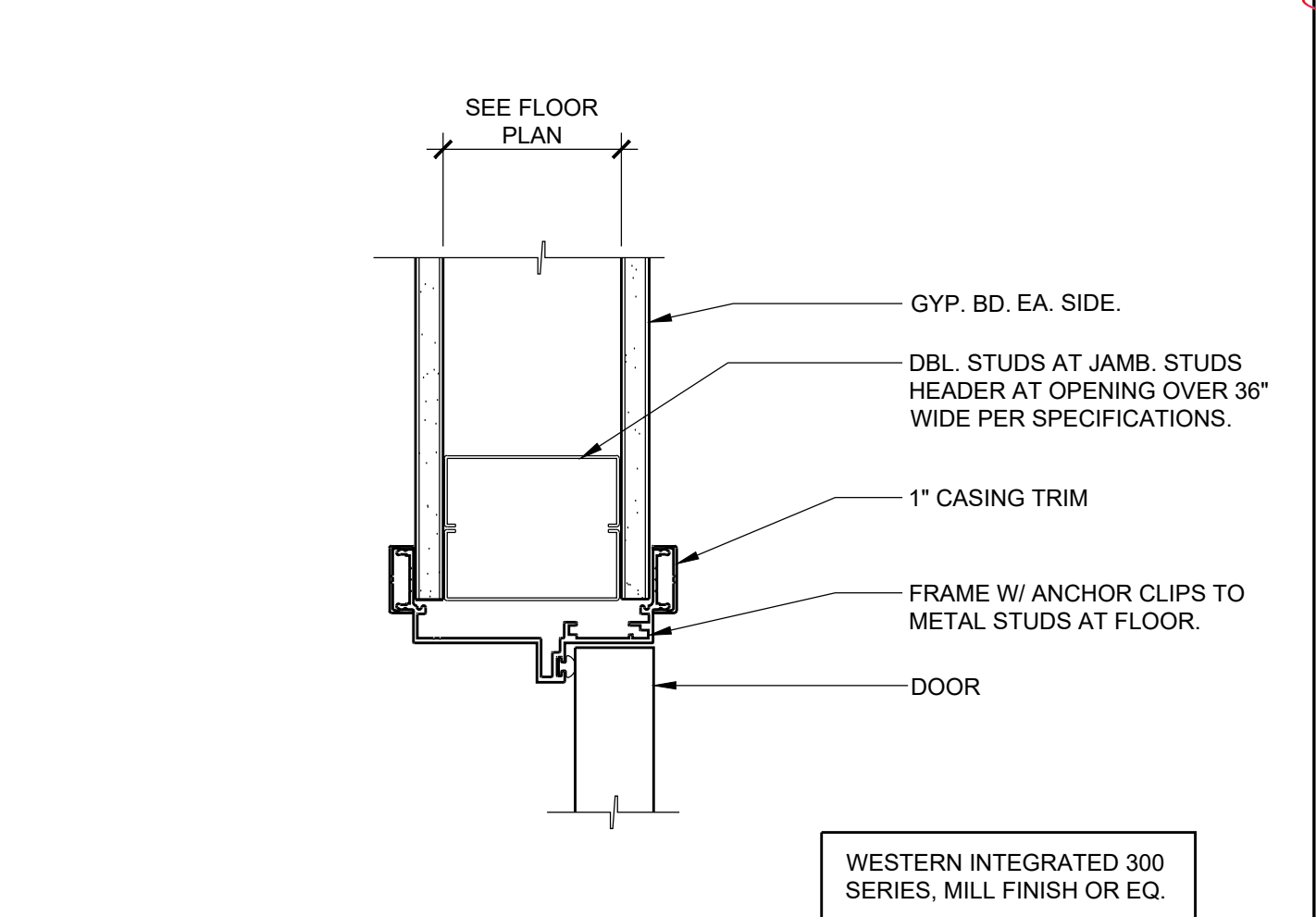
No.	Date	Description
1	8-1-25	BACK CHECK 1

JOB NO.	2503	SHEET NO.
DATE	7-3-25	
PROJECT COORDINATOR	RON PRYCE	
SCALE	AS NOTED	OF



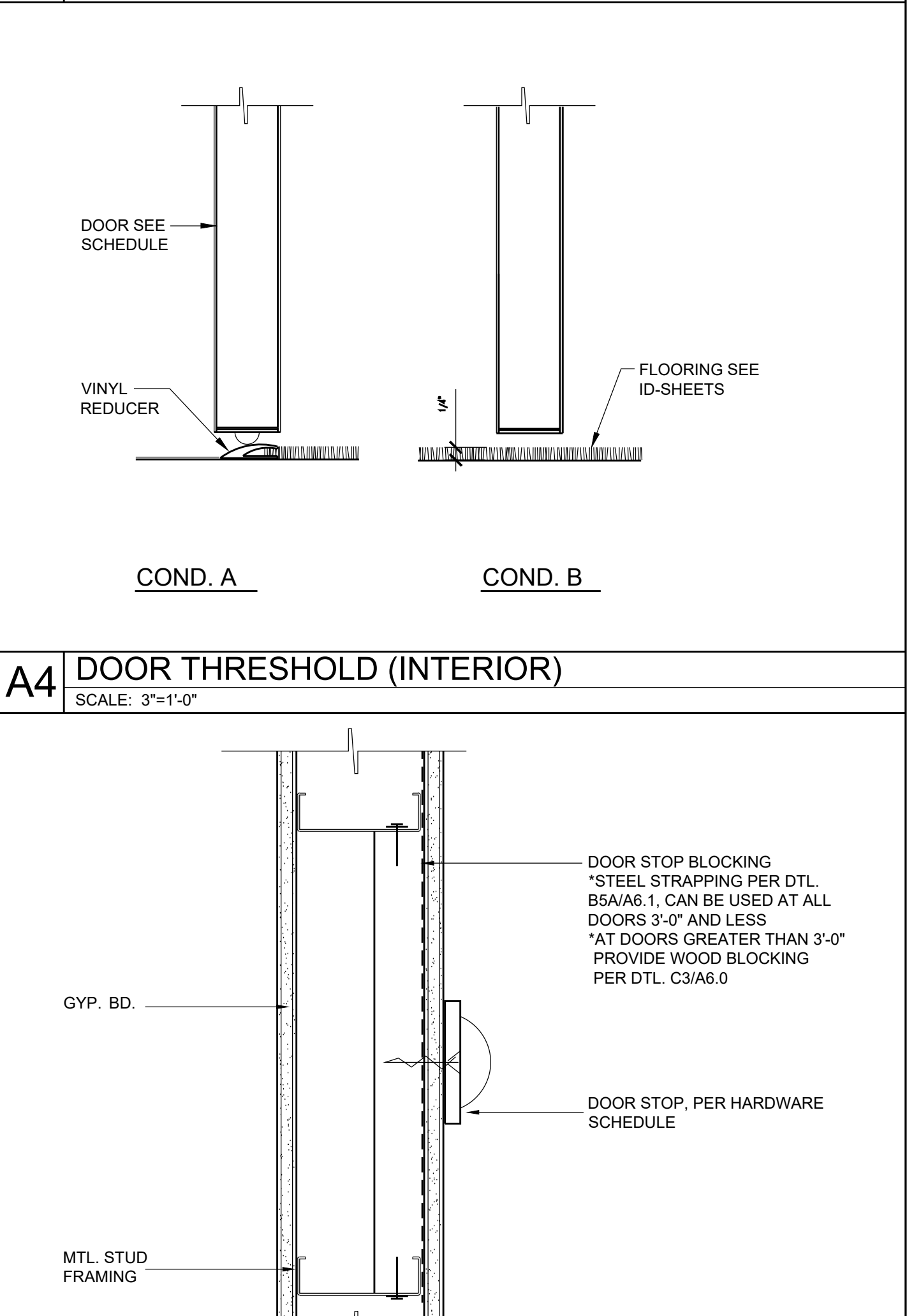
A1	BASE AT RESTROOMS
----	-------------------

SCALE: 3" = 1'-0"



A3	DOOR JAMB (INT.)
----	------------------

SCALE: 3" = 1'-0"



A5	DOOR STOP
----	-----------

SCALE: 1 1/2"=1'-0"

Hanford Paradise
E. Lacy Blvd., Suite. 109
Hanford, CA 93232

PROJECT COORDINATOR

Page 26 of 819

[illegible]

The firm of Pryce Architects expressly reserves its
copyright and other applicable property
rights in these plans. These plans are not to be
reproduced, changed, or copied in any form or manner
whatsoever, nor are they to be assigned to a third
party without first obtaining the express written consent
and permission of the Architect. In the event of an
authorized reuse of these plans by a third party, the
third party shall hold the Architect harmless, and shall
bear the cost of the Architect's legal fees associated
with defending and enforcing these rights. These plans
are and shall remain the exclusive property of Pryce
Architects.

GENERAL NOTES

- SIMILAR REQUIREMENTS, AS STATED IN THESE GENERAL NOTES AND HVAC NOTES, MAY ALSO APPEAR IN THE GENERAL CONDITIONS AND SPECIFICATIONS. SUCH SIMILAR AND CORRESPONDING NOTES IN THE GENERAL CONDITIONS AND SPECIFICATIONS TAKE PRECEDENCE OVER THESE GENERAL NOTES AND HVAC NOTES. WHEN THESE GENERAL NOTES AND HVAC NOTES ARE MORE STRINGENT, THEN THEY SHALL PREVAIL.
- SCOPE: THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION, SCAFFOLDING, AND SERVICES NECESSARY FOR COMPLETION OF THE CODES AND REGULATIONS. ALL MATERIALS AND WORK SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF THE CALIFORNIA MECHANICAL CODE, CALIFORNIA BUILDING CODE, CALIFORNIA PLUMBING CODE, AND NATIONAL ELECTRIC CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING CALIFORNIA CCR TITLE 24 ENERGY CONSERVATION STANDARDS. ALL MATERIALS AND WORK SHALL MEET THE APPROVAL OF THE LOCAL JURISDICTION AND THE FIRE MARSHAL, WHERE THE DRAWINGS AND SPECIFICATIONS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE DRAWINGS AND SPECIFICATIONS SHALL GOVERN, BUT NOTHING IN THE DRAWINGS AND SPECIFICATIONS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
- PERMITS, LICENSEES, AND FEES: THE CONTRACTOR SHALL PAY FOR ALL PERMITS.
- SYMBOLS AND ABBREVIATIONS: IF THE CONTRACTOR IS UNSURE OF ANY SYMBOLS OR ABBREVIATIONS ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- NATURE OF THE DRAWINGS: FOR THE PURPOSE OF CLARITY AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. ALTHOUGH SIZES AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS, AND VERIFY THIS INFORMATION BEFORE ORDERING, FABRICATING, OR INSTALLING OF ANY MATERIALS.
- FIELD VERIFICATION: ALL EXISTING STRUCTURES, EQUIPMENT, DUCTWORK, PIPING, AND CONDUIT ARE NOT SHOWN IN THESE DRAWINGS. BEFORE BIDDING AND BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL THOROUGHLY EXAMINE AND VERIFY ALL EXISTING CONDITIONS, POINTS OF CONNECTION, SIZES, LOCATION, INTERFERENCES, ETC. ALL NECESSARY ADJUSTMENTS REQUIRED TO FACILITATE THE NEW INSTALLATION SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- DISCREPANCIES: THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, IN WRITING, ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS, AND ANY CONFLICTS WITHIN THE CONTRACT DOCUMENTS. THIS SHALL BE DONE PRIOR TO THE START OF CONSTRUCTION IN EACH AREA SO ANY NECESSARY CLARIFICATIONS CAN BE ISSUED.
- SUBMITTALS: THE CONTRACTOR SHALL MAKE SUBMITTALS ON EQUIPMENT AND OTHER ITEMS REQUIRING SUBMITTALS, AND SHALL RECEIVE APPROVALS ON THE SUBMITTALS, PRIOR TO PURCHASE OR INSTALLATION.
- COORDINATION: PRIOR TO FABRICATION AND INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS OR HER WORK WITH ALL OTHER TRADES AND THE GENERAL CONTRACTOR. THIS INCLUDES COORDINATING THE LOCATION AND SIZE OF ALL OPENINGS, LOCATIONS OF EQUIPMENT PADS AND CHANGES OF ELEVATIONS OF DUCTWORK, PIPING AND OTHER EQUIPMENT. IT INCLUDES COORDINATING WITH THE ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS.
- WORK SCHEDULING AND INTERRUPTIONS: THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE OWNER BEFORE BEGINNING WORK IN ANY EXISTING AREA, OR BEFORE WORKING ON ANY EXISTING EQUIPMENT. THE CONTRACTOR SHALL INDICATE TO THE OWNER, THE PARTICULAR AREA IN WHICH WORK WILL BE DONE AND THE PARTICULAR EQUIPMENT TO BE WORKED ON ALONG WITH THE DURATION OF TIME ANY SYSTEM WILL BE OUT OF SERVICE. SUCH WORK WILL BE SCHEDULED IN SUCH A MANNER SO AS NOT TO DISRUPT PRESENT OPERATIONS, IF POSSIBLE. FOR INTERRUPTION OF PRESENT OPERATIONS, THE CONTRACTOR SHALL OBTAIN A LETTER OF APPROVAL FROM THE OWNER, CITING AREAS, DATES, HOURS OF THE DAY, AND DURATION INTERRUPTION IS TO TAKE PLACE.
- CONSTRUCTION BARRIERS AND PASSAGES: THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. TEMPORARY PASSAGES SHALL BE PROVIDED AS REQUIRED.
- DEMOLITION: THE CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING CONSTRUCTION AS NECESSARY TO INSTALL NEW CONSTRUCTION AS SHOWN.
- SALVAGE: THE OWNER RESERVES THE RIGHT TO SALVAGE ANY EQUIPMENT AND/OR MATERIALS AFTER REMOVAL BY THE CONTRACTOR. ALL REMAINING ITEMS REMOVED BY THE CONTRACTOR SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR.
- PROTECTION, REPAIR, AND RESTORATION OF EXISTING: THE CONTRACTOR SHALL PROTECT AND REPAIR ADJACENT EXISTING SURFACES, AREAS, PIPING, AND EQUIPMENT WHICH MAY BE DAMAGED AS A RESULT OF DEMOLITION AND/OR NEW WORK. CONTRACTOR SHALL NOT DEMOLISH OR ALTER ANY WORK WHICH IS NOT PART OF THIS CONTRACT WITHOUT WRITTEN PERMISSION OF THE OWNER.
- PROTECTION AND REPAIR OF NEW WORK: THE CONTRACTOR TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS BEFORE, DURING AND AFTER INSTALLATION. IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.
- MATERIALS: ALL MATERIAL, EQUIPMENT, FIXTURES, ETC. SHALL BE NEW, UNLESS OTHERWISE NOTED, AND OF THE BEST GRADE OF THE RESPECTIVE KIND, FREE FROM ALL DEFECTS. ANY MATERIAL, ARTICLE OR PIECE OF EQUIPMENT OTHER THAN THAT INDICATED SHALL NOT BE USED UNLESS APPROVED IN WRITING BY THE ENGINEER, AND ANY CHANGES IN MECHANICAL, ELECTRICAL AND/OR OTHER SYSTEMS REQUIRED DUE TO SUCH SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND AT NO ADDITIONAL COST TO THE OWNER.
- MATERIALS UNIFORMITY: MATERIALS FOR SIMILAR USE SHALL BE OF THE SAME TYPE AND MANUFACTURER, UNLESS OTHERWISE SPECIFIED.
- SEALING OF OPENINGS: ALL FLOOR, WALL, AND CEILING OPENINGS REQUIRED FOR PIPES, DUCTS, CONDUITS, AND SIMILAR ITEMS SHALL BE SEALED; UNLESS OTHERWISE PROTECTED WITH A TWO-HOUR FIRE RESISTIVE ENCLOSURE (ONE-HOUR FOR ONE-HOUR BUILDINGS).
- STRUCTURAL MEMBERS: UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.
- WIRING: RESPONSIBILITY DISTINCTION: THE GENERAL CONTRACTOR SHALL SUPERVISE THE FOLLOWING WIRING RESPONSIBILITY DISTINCTION. CONTROL LOW VOLTAGE WIRING AND CONNECTION SHALL BE BY MECHANICAL CONTRACTOR. LINE VOLTAGE WIRING, CONDUIT, DISCONNECT SWITCHES, AND CONNECTION SHALL BE BY ELECTRICAL CONTRACTOR.
- PLUMBING DISTINCTION: CONDENSATE DRAIN PIPING AND FINAL CONNECTION TO EQUIPMENT UNITS SHALL BE BY PLUMBING CONTRACTOR.
- GENERAL CONTRACTOR DISTINCTION: REDWOOD SLEEPERS OR PLATFORMS FOR ROOF MOUNTED EQUIPMENT UNITS, DUCT PENETRATIONS AND CUTTING AND PATCHING SHALL BE BY GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED ON PLAN.
- MANUFACTURER'S INSTALLATION RECOMMENDATIONS: ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, OFFSETS, TRANSITIONS, DAMPERS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- AIR BALANCING: THE CONTRACTOR SHALL CONDUCT AN AIR BALANCE OF THE HVAC SYSTEMS TO ACHIEVE THE AIR FLOWS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL SUBMIT A COMPLETE AIR BALANCE REPORT FOR APPROVAL. THE AIR BALANCE REPORT SHALL CONFORM TO AABC STANDARDS AND SPECIFICATIONS. THE REPORT SHALL INCLUDE THE FOLLOWING:
 - AIR QUANTITIES AT EACH REGISTER.
 - STATIC PRESSURE READINGS AT INLET AND DISCHARGE OF EACH AIR HANDLING SYSTEM AND AT INLET OF EACH EXHAUST AIR SYSTEM.
 - COOLING AND HEATING SUPPLY AND RETURN AIR TEMPERATURES AT EACH AIR CONDITIONING UNIT.
- TESTING AND OPERATION: THE CONTRACTOR SHALL TEST, ADJUST, AND PLACE IN PROPER OPERATING CONDITION ALL SYSTEMS INSTALLED UNDER THE WORK OF THIS CONTRACT.
- OPERATION AND MAINTENANCE MANUALS: THE CONTRACTOR SHALL SUBMIT FOUR SETS OF OPERATING AND MAINTENANCE MANUALS TO THE OWNER UPON COMPLETION OF THE PROJECT.
- AS-BUILT DRAWINGS: THE CONTRACTOR SHALL MAINTAIN ACCURATE AS-BUILT DRAWINGS DURING CONSTRUCTION AND SHALL SUBMIT THEM FOR APPROVAL UPON COMPLETION OF INSTALLATION.
- WARRANTY: IN ADDITION TO EQUIPMENT WARRANTIES, THE CONTRACTOR SHALL FURNISH A WRITTEN WARRANTY AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE YEAR AFTER OWNER'S ACCEPTANCE OF THE PROJECT. THE WARRANTY SHALL INCLUDE LABOR AND MATERIALS FOR REPAIR OF DAMAGE TO, OR REPLACEMENT OF, ANY PART OF DEFECTIVE OR DAMAGED EQUIPMENT OR ITEM.
- THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2016 CBC SECTION 1632A AND TABLE 16A-0. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.

DUCT CONSTRUCTION

A.MINIMUM DUCTWORK GAGES, JOINTS, REINFORCING, AND BRACING SHALL CONFORM TO THE FOLLOWING TABLES. HOODS, PLENUMS, AND CASTINGS SHALL NOT BE LIGHTER THAN THE DUCT GAGE LISTED IN TABLE 2 FOR CORRESPONDING DIMENSIONS. ADDITIONAL BRACING SHALL BE PROVIDED TO PREVENT OBJECTIONABLE PANEL VIBRATION.

B.PROVIDE LONGITUDINAL SEAMS OF THE GROOVED SNAP LOCK AND STANDING, SEALED AND TAPED, OR SEALED SPIRAL OR CONTINUOUSLY WELDED. FOR EXHAUST DUCT, TAPING MAY BE OMITTED.

TABLE 1 – SHEET METAL THICKNESS FOR CIRCULAR DUCTS AND FLAT-OVAL (FOR STATIC PRESSURES LISTED)

GAGE THICKNESS 2" WATER COLUMN	DIAMETER OF DUCT	HORIZONTAL GIRTH	
MAXIMUM S.P. BOUND / OVAL	MAXIMUM DIAMETER SUPPORT	MAXIMUM DISTANCE	JOINTS
26 / 24	UP TO 9"	10'	2" SLIP
26 / 24	9" – 14"	8'	4"
24 / 22	14" – 23"	8'	4"

C.CONSTRUCTION DETAILS FOR RECTANGULAR SHEET METAL DUCTS FOR LOW-PRESSURE SYSTEMS – VELOCITIES NOT EXCEEDING 2,000 FEET PER MINUTE:

- FOR PRESSURES IN EXCESS OF 2 INCHES WATER COLUMN, DUCT WALL THICKNESS SHALL BE 2 GAGES HEAVIER THAN SET FORTH IN THIS TABLE.
- DUCT SPECIFICATIONS SHOWN BELOW ARE APPLICABLE WHEN DUCTS LARGER THAN 18 INCHES ARE CROSS-BROKEN. WHERE CROSS BREAKING IS NOT PROVIDED, DUCT WALL THICKNESS SHALL BE 2 GAGES HEAVIER ON DUCTS 19 INCHES TO 60 INCHES WIDE UNLESS LONGITUDINAL STANDING SEAMS ARE FURNISHED.

TABLE 2 – MINIMUM METAL GAGES

MINIMUM GAGE THICKNESS STEEL / ALUMINUM	MAX. SIDE, GROSS DIMENSIONS	DUCT PERMISSIBLE GIRTH JOINTS & LONGITUDINAL SEAMS	HORIZONTAL SUPPORT MAXIMUM DISTANCE
26 / 24	UP TO 12"	DRIVE-SLIP, PLAIN S-SLIP, OR 1" POCKET LOCK	10'
24 / 22	13" – 18"	DRIVE-SLIP, PLAIN S-SLIP, 1" POCKET LOCK	10'

MINIMUM GAGE THICKNESS STEEL / ALUMINUM	MAX. SIDE, GROSS DIMENSIONS	DUCT PERMISSIBLE GIRTH JOINTS & LONGITUDINAL SEAMS	HORIZONTAL SUPPORT MAXIMUM DISTANCE
24 / 22	19" – 30"	HEMMED S-SLIP, 1" BAR SLIP, OR 1" POCKET LOCK ON 5' CENTERS.	10'

HEMMED S-SLIP, 1" SLIP,
OR 1" POCKET LOCK ON 5' CENTERS
WITH 1" X 1" X 1/8" ANGLES ON
CENTER LINE BETWEEN.

HEMMED S-SLIP, 1" BAR SLIP,
OR 1" POCKET LOCK ON 10' CENTERS
WITH CROSS BREAK 1" STANDING
SEAM ON 5' CENTERS.

* BUTT PUNCH SNAP-LOCK SEAMS, LOCKFORMER, OR EQUAL, SHALL ONLY BE PERMITTED ON 20 AND 22 GAGE GALVANIZED STEEL DUCTS. FOR ALUMINUM DUCT, BUTT PUNCH SNAP-LOCK IS NOT PERMITTED.

D. FERROUS ANGLES AND STRUCTURAL MEMBERS AND JOINING COLLARS SPECIFIED FOR THE CONSTRUCTION AND SUPPORT OF DUCTWORK AND PLENUMS SHALL BE PRIMED WITH ONE HEAVY COAT OF ASPHALT ALUMINUM PAINT BEFORE INSTALLATION OR FABRICATION. THE METAL SURFACE SHALL BE THOROUGHLY CLEANED BEFORE APPLICATION OF THE PAINT. GALVANIZING MAY BE PROVIDED INSTEAD OF PAINTING. INSTALLED DUCT HANGER RODS CONCEALED IN FURRED CEILINGS AND WALLS IS NOT REQUIRED TO BE PRIMED OR PAINTED.

E. BROKEN PLACES IN GALVANIZED COATING SHALL BE ACID WASHED AND THEN COMPLETELY SOLDERED OVER OR PAINTED WITH GALVANIZING PAINT, DEVCON Z OR ZRC COLD GALVANIZING COMPOUND.

F. S-TYPE OR DRIVE-SLIP TYPE GIRTHS OR LONGITUDINAL SEAMS SHALL NOT BE FURNISHED FOR DUCTWORK INSTALLED OUTDOORS OR MOUNTED ON ROOFS. PROVIDE ANGLE-REINFORCED GOVERNMENT LOCK ONLY.

G. BROKEN PLACES IN GALVANIZED COATING SHALL BE ACID WASHED AND THEN COMPLETELY SOLDERED OVER OR PAINTED WITH GALVANIZING PAINT, DEVCON Z OR ZRC COLD GALVANIZING COMPOUND.

HVAC NOTES

- ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH ENERGY EFFICIENCY STANDARDS PER TITLE 24.
- CONTRACTOR SHALL INSTALL PER PLAN. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY THE EXACT CEILING SPACE AND INTERCHANGE THE DUCT SIZE TO FIT THE CEILING SPACE WITHOUT ADDITIONAL COST TO THE DISTRICT.
- EXHAUST TERMINATION SHALL BE MINIMUM 10'-0" AWAY FROM, OR 3'-0" ABOVE, ANY OUTSIDE AIR INTAKE, OPERABLE WINDOWS AND DOORS. THEY SHALL ALSO BE 10'-0" MINIMUM ABOVE GRADE.
- ALL PIPES AND DUCTS SHALL BE SUPPORTED AND BRACED PER "SMACNA" GUIDELINES.

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

PART 1	2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2	2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)
PART 3	2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R. (2021 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)
PART 4	2022 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 5	2022 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 6	2022 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.
PART 7	CURRENTLY VACANT
PART 8	2022 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.
PART 9	2022 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2019 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
PART 10	2022 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2013 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
PART 11	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 CCR.
PART 12	2022 CALIFORNIA REFERENCED STANDARDS, TITLE 24 C.C.R.

SYMBOLS AND ABBREVIATIONS			SYMBOLS AND ABBREVIATIONS		
SA		SUPPLY AIR PLENUM CROSS-UP DIRECTION	EDB		ENTERING DRY BULB
RA		RETURN AIR PLENUM CROSS-DOWN DIRECTION	EER		ENERGY EFFICIENCY RATIO
SA		SUPPLY AIR PLENUM CROSS-UP DIRECTION	ESP		EXTERNAL STATIC PRESSURE
RA		RETURN AIR PLENUM CROSS-DOWN DIRECTION	EWB		ENTERING WET BULB
CD		CEILING DIFFUSER, 2 – WAY	EXIST		EXISTING
CD		CEILING DIFFUSER, 4 – WAY	FLA		FULL LOAD AMPERES
CD		CEILING DIFFUSER, ROUND	HP		HORSEPOWER, HEAT PUMP
CD		CEILING DIFFUSER, ROUND	HZ		HERTZ
SWS		SIDEWALL SUPPLY REGISTER	KW		KILOWATT
RR		RETURN REGISTER	LAT		LEAVING AIR TEMPERATURE
ER		EXHAUST REGISTER	LAV		LAVATORY
SWS		SIDE WALL SUPPLY REGISTER	LDB		LEAVING DRY BULB
SWR		SIDE WALL RETURN GRILLE	LWB		LEAVING WET BULB
CD		CONDENSATE DRAIN	MBH		THOUSAND BRITISH THERMAL UNITS PER HOUR
RL		REFRIGERANT LIQUID LINE	MFR		MANUFACTURER
RS		REFRIGERANT SUCTION LINE	MCA		MAXIMUM CURRENT AMPACITY
BDD		BACKDRAFT DAMPER	MFS		MAXIMUM FUSE SIZE
MVD		MANUAL VOLUME DAMPER	MOCP		MAXIMUM OVERCURRENT PROTECTION
POC		POINT OF CONNECTION	NFPA		NATIONAL FIRE PROTECTION ASSOCIATION
POD		POINT OF DISCONNECTION	(N)		NEW
SD		SMOKE DETECTOR	OSD		OPPOSED BLADE DAMPER
AD		ACCESS DOOR	OSA		OUTSIDE SUPPLY AIR
AFF		ABOVE FINISHED FLOOR	QTY		QUANTITY
ASHRAE		AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	RLA		RATED LOAD AMPERES
BFF		BELOW FINISHED FLOOR	RA		RETURN AIR
BTUH		BRITISH THERMAL UNITS PER HOUR	RTU		ROOFTOP UNIT
CFM		CUBIC FEET PER MINUTE	SA		SUPPLY AIR
COP		COEFFICIENT OF PERFORMANCE	SEER		SEASONAL ENERGY EFFICIENCY RATIO
DB		DRY BULB	SMACNA		SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
DX		DIRECT EXPANSION	SP		STATIC PRESSURE
EA		EXHAUST AIR	TA		TRANSFER AIR
EAT		ENTERING AIR TEMPERATURE	TC		TRANSFER GRILLE
(E)		EXISTING	TYP		TYPICAL

PROJECT

Project Architect Approval:

Consultant:



Spirit Engineering
1215 West Imperial Highway
Suite 223
Irvine, CA 92614
P: 949.232.8286
E: peter@spirit-eng.com

Project Name:

Tenant Improvement for

Hanford Marketplace

Shops 3

2461 E. Lacy Blvd., Suite.

Hanford, CA 93232

SHEET

MECHANICAL NOTES, AND ABBREVIATIONS

PROJECT DEVELOPMENT

Date	Issued For
-	PLAN CHECK

REVISIONS

No.	Date	Description
△	07/31/25	PLAN CHECK CORRECTIONS.

JOB NO. 25.076	SHEET NO.
DATE 07/31/2025	M-1
PROJECT COORDINATOR RON PRYCE	OF
SCALE	AS NOTED

PROJECT

Project Architect Approval:

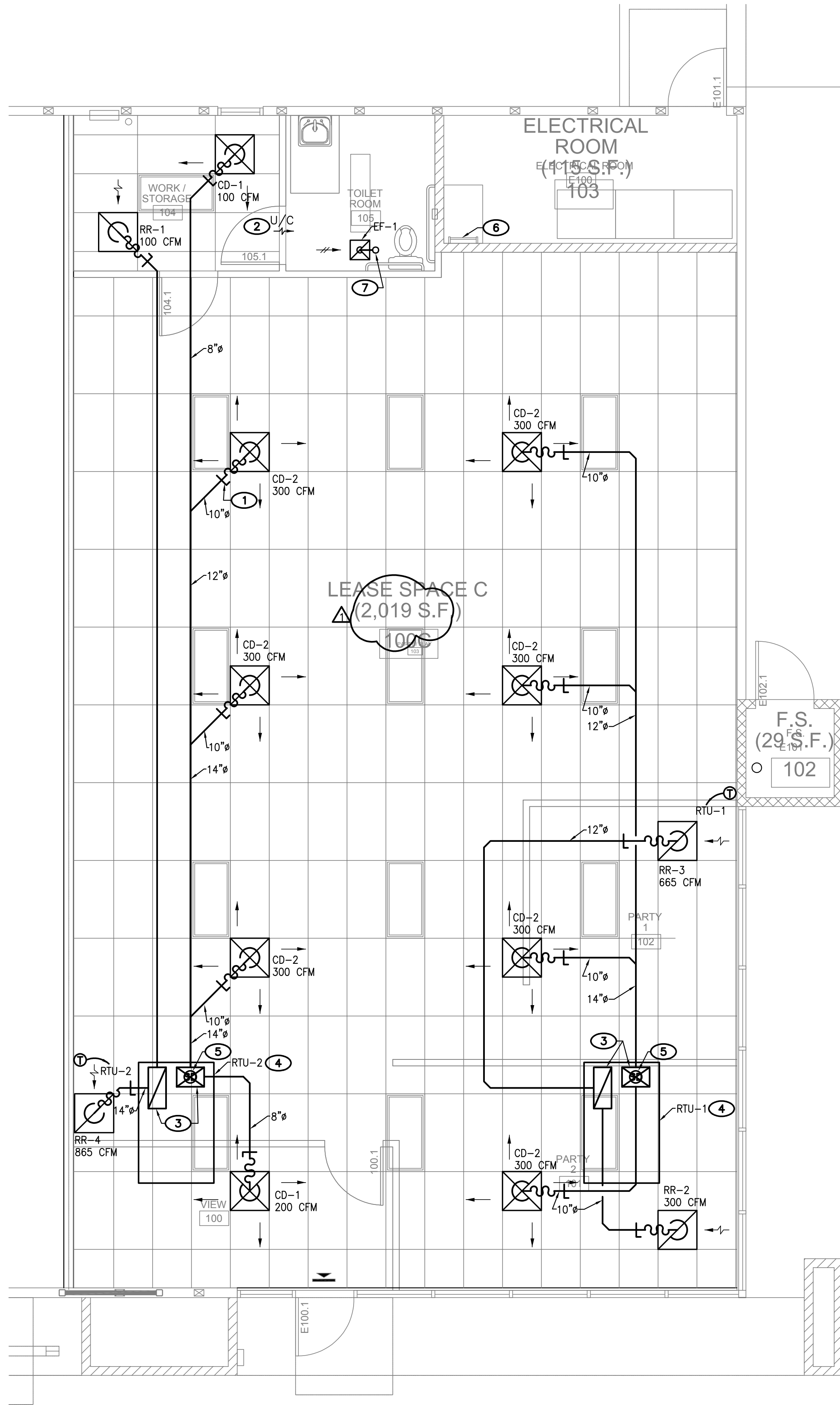
Consultant:



Project Name:

Tenant Improvement for

**Hanford Marketplace
Shops 3**
2461 E. Lacy Blvd., Suite.
Hanford, CA 93232



KEY NOTES:

- MANUAL VOLUME DAMPER. TYPICAL.
- 1" DOOR UNDERCUT.
- 17"x12" SUPPLY AND 25"x11" RETURN PLENUMS DOWN AND TERMINATE ABOVE T-BAR CEILING.
- CONTRACTOR SHALL INSPECT THE EXISTING ROOF CURBS WHERE THE NEW RTU WILL BE SITTING ON TOP OF. PROVIDE ADAPTOR CURB IF NECESSARY.
- DUCT SMOKE DETECTOR. CONNECT DUCT SMOKE DETECTOR TO ITS RESPECTIVE RTU.
- EXISTING ROOF ACCESS LADDER.
- 6" EXHAUST AIR DUCT, UP THROUGH ROOF, TO ROOF CURB-CAP.

KEY NOTES:

- HVAC CONTRACTOR SHALL COORDINATE INSTALLATION WITH ALL TRADES.
- GENERAL CONTRACTOR SHALL COVER ALL EQUIPMENT AND DUCT OPENINGS DURING CONSTRUCTION PER 2022 CALIFORNIA GREEN BUILDING CODE.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY DUCT TRANSITIONS PER SMACNA STANDARDS.
- PROVIDE INSULATION MATERIALS, ADHESIVES, COATINGS, SEALANTS, FITTING COVERS, AND OTHER ACCESSORIES WITH A FIRE HAZARD RATING NOT TO EXCEED 25 FOR FLAME SPREAD, 25 FOR FUEL CONTRIBUTED AND 50 FOR SMOKE DEVELOPED.
- HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS (INCLUDING HYDRONIC SYSTEMS) SHALL BE BALANCED IN ACCORDANCE WITH AN APPROVED METHODS PER SECTION 407.3 OF THE 2022 CALIFORNIA MECHANICAL CODE.
- CONTRACTOR SHALL VERIFY THE FIELD CONDITION TO DETERMINE IF THE DESIGN DUCTWORK WILL FIT ABOVE CEILINGS. IF NOT, CONTRACTOR SHALL RESIZE THE DUCTWORK WITH STATIC PRESSURE LOSS OF NO MORE THAN 0.08" / 100 LINEAR FEET OF DUCTWORK.
- CONTRACTOR SHALL SUBMIT, TO THE BUILDING DEPARTMENT, OF A CERTIFIED AIR BALANCE REPORT AND OUTSIDE AIR CERTIFICATION. THE CERTIFIED AIR BALANCE REPORT IS REQUIRED PRIOR TO CERTIFICATE OF OCCUPANCY.
- CONTRACTOR SHALL LOCATE EXHAUST TERMINATIONS SO THAT THEY ARE MINIMUM 10 FEET AWAY FROM ANY OUTSIDE INTAKES.
- CONTRACTOR SHALL PAINT ALL DIFFUSERS AND GRILLES TO MATCH ADJACENT CEILING.
- ALL DUCTS SHALL BE RIGID DUCTS EXCEPT FOR THE LAST 5 FEET OF DUCT CONNECTION TO REGISTER. SEE DETAIL D/M-2.
- ALL SUPPLY AND RETURN AIR DUCTS IN CONCEALED SPACE SHALL BE INSULATED WITH R VALUE OF 8.
- CONTRACTOR SHALL DEMOLISH AND DISPOSE OF EXISTING DUCTWORK AND REGISTERS THAT WILL NOT BE REUSED.
- THE AIR DUCT AND PLENUM SYSTEM IS DESIGNED PER 2022 CEC, SECTION 120.4(A)-(F).

VENTILATION CALCULATION								
AREA	RP	PZ	RA	AZ	VBZ	EZ	VOZ	TITLE 24
RTU-1	7.5	14	0.12	1009	226	1.0	226	252
RTU-2	7.5	14	0.12	1009	226	1.0	226	252

VBZ = RP * PZ + RA * AZ (EQUATION 403.2.1)
RP = OUTDOOR AIRFLOW RATE FROM TABLE 402.1
PZ = ZONE POPULATION
RA = OUTDOOR AIRFLOW RATE PER UNIT AREA FROM TABLE 402.1
AZ = ZONE FLOOR AREA
VOZ = VBZ / EZ (EQUATION 403.2.3)
EZ = 1.0 (PER TABLE 403.2.2)
VOT = VOZ

SHEET

**MECHANICAL
PLAN**

PROJECT DEVELOPMENT

Date Issued For
PLAN CHECK

REVISIONS

No. Date Description
PLAN CHECK
CORRECTIONS.

JOB NO. 25.076
DATE 07/31/2025
PROJECT COORDINATOR
RON PRYCE
SCALE OF
AS NOTED

SHEET NO.
M-4

APPLICABLE CODES		
PART 1	2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.	
PART 2	2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)	
PART 3	2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)	
PART 4	2022 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R. (2021 INTERNATIONAL MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)	
PART 5	2022 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R. (2021 INTERNATIONAL PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)	
PART 6	2022 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.	
PART 7	CURRENTLY VACANT	
PART 8	2022 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.	
PART 9	2022 CALIFORNIA FIRE CODE, TITLE 24 C.C.R.	
PART 10	(2021 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)	
PART 10	2022 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2021 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)	
PART 11	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 CCR.	
PART 12	2022 CALIFORNIA REFERENCED STANDARDS, TITLE 24 C.C.R.	

CALL OUT	
	"S" - FIXTURE TYPE "J" - DENOTES FIXTURE NUMBER
	MECHANICAL EQUIPMENT DESIGNATION "EF" DENOTES EXHAUST FAN "WAF" DENOTES MAKE-UP AIR UNIT "FC" DENOTES FAN-COIL "CU" DENOTES CONDENSING UNIT "RTU" DENOTES ROOFTOP UNIT "Y" DENOTES EQUIPMENT NUMBER
	"02" - DENOTES DETAIL CALL-OUT "P-3" - DENOTES DRAWING NUMBER

WATER CALCULATION	
STREET PRESSURE: <u>60</u> PSI (E) SUB-METER SIZE: <u>2"</u> FOR <u>4</u> GPM FLOW MATERIAL: COPPER EXISTING BACKFLOW PREVENTER: ZURN 375XL SERIAL # 2723396.	
	COLD WATER
1. METER & SUB-METER LOSS, PSI	3
2. STATIC LOSS, PSI (12'X0.43)	5.16
3. RESIDUAL PRESSURE REQUIRED, PSI	25
4. (E) PRESSURE REDUCING VALVE FALL OFF, PSI	-
5. (E) BACKFLOW PREVENTER	12
6. TOTAL LOSSES, PSI	45.16
7. WATER PRESSURE (MIN.), PSI	60
8. PRESSURE AVAILABLE FOR FRICTION, PSI	14.84
9. ACTUAL LENGTH OF SYSTEM, FT.	100
10. DEVELOPED LENGTH 120% OF ITEM 9	120
11. AVERAGE PRESSURE DROP, PSI/100 FT. ITEM 8 ITEM 10	12.3

SEWER SIZING (2% SLOPE)			
PIPE SIZE	SEWER FIX. UNIT (HORIZONTAL)	SEWER FIX. UNIT (VERTICAL)	VENT FIX. UNIT
1 1/4"	1	1	1
1 1/2"	1	2	8
2"	8	16	24
3"	35	48	84
4"	216	256	256
6"	720	1380	1380

COLD WATER SIZING			
PIPE SIZE	SYSTEM		
	F. TANK	F. VALVE	GPM
1/2"	4	0	4
3/4"	13	0	10

COLD WATER SIZING BASED ON FRICTION LOSS APPROXIMATELY AT 12.3 PSI/100 FT AND MAXIMUM WATER FLOW RATED OF 8 FT/S FOR COPPER TUBING

HOT WATER SIZING		
PIPE SIZE	SYSTEM	
	FIXTURE UNIT	GPM
1/2"	3	2
3/4"	8	7

HOT WATER SIZING BASED ON FLOW RATED MAXIMUM AT 5 FT/S FOR COPPER TUBING

PIPE SCHEDULE									
SERVICE	LOCATION	MATERIALS							
		TYPE K COPPER	TYPE L COPPER	TYPE M COPPER	NO PIPE	SCH 40 CAST IRON	SCH 40 BLACK STEEL	SCH 40 GALV STEEL	ROULETTE STEEL
WATER	ABV. FLR.	●							
	BEL. FLR.	●							
WASTE (SANITARY)	ABV. FLR.			●					
	BEL. FLR.			●					
VENT (SANITARY)	ABV. FLR.					●			
	BEL. FLR.					●			
INDIRECT WASTE	INSIDE		●						
	OUTSIDE		●						

PLUMBING FIXTURE SCHEDULE						
SYMBOL	FIXTURE	ROUGH-IN SIZE				REMARKS
		W	V	DCW	DHW	
L-1	LAVATORY (ACCESSIBLE)	2"	1 1/2"	1/2"	1/2"	BATH COLLECTION MODEL NO. UNLIMITED 60, WALL HUNG LAVATORY, VITREOUS CHINA WALL HUNG, PROVIDE FACTORY WBSO 53991 PUSH WASTE DRAIN AND WBSO 53922 DECORATIVE TRAP PROVIDE ARM SUPPORT, DRILL LAVATORY FAUCET HOLES ON 4" CENTERS, PROVIDE 1/2" ANGLE STOP FOR COLD WATER CONNECTION, MOUNT RIM AT 34" A.F.F. PROVIDE INSULATION SYSTEM KIT FOR P-TRAP AND ANGLE VALVE ASSEMBLIES AND OFF-SET GRID DRAIN PLUG WITH 17 GA TAILPIECE, FAUCET, DELTA 8610104 0.5 GPM @ 0.2 GALLON PER PUSH BUTTON ACTIVATION, LEONARD THERMOSTATIC MIXING VALVE MODEL NO. 170-LF-BRKT. SET HOT WATER OUTLET AT 105°F.
WC-1	WATER CLOSET (ACCESSIBLE)	4"	2"	3/4"	-	FLOOR MOUNTED, PRESSURE ASSIST FLUSH TANK TOILET, AMERICAN STANDARD MODEL 2467.100, WHITE, VITREOUS CHINA, ELONGATED BOWL, 1.1 GALLONS PER FLUSH, WITH AMERICAN STANDARD 5901.100.020 SEAT AND ANGLE STOP VALVE, TRIGGER LEVER SHALL BE ON THE APPROACHED SIDE.
IWH-1	INSTANT HOT WATER HEATER	-	-	1/2"	1/2"	CHRONOMITE SR-30L/120, 3,600 W OUTPUT, 120V-18-60HZ, 30 AMPS, MINIMUM ACTIVATED GPM: 0.20, 0.5 GPM @ 43° F TEMPERATURE RISE, MOUNT IT UNDER COUNTER.
WCO-1	WALL CLEANOUT	SEE PLAN				ZURN MODEL NO. Z-1446-BP-VP-G W/ CAST IRON BODY, POLISHED STAINLESS STEEL COVER AND VANDAL RESISTANT SCREWS.

THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC, DEPICTING FUNCTION AND PLACEMENT. PROVIDE OFFSETS IN PIPING AND CHANGES IN FIXTURE LOCATIONS AS NECESSARY TO CONFORM TO STRUCTURAL AND ARCHITECTURAL REQUIREMENTS AND TO AVOID OBSTRUCTIONS. CHANGES TO ACCOMMODATE INSTALLATION OF THIS WORK WITH OTHER WORK, IN ORDER TO MEET ARCHITECTURAL OR STRUCTURAL CONDITIONS, SHALL BE MADE WITHOUT ADDITIONAL COST TO OWNER.

FIXTURE UNIT COUNT							
FIXTURE TYPE	# OF FIXTURES	CW (FU)	TOTAL CW (FU)	HW (FU)	TOTAL HW (FU)	WASTE (FU)	TOTAL WASTE (FU)
LAVATORY	1	1	1	0.75	0.75	1	1
WATER CLOSET (FLUSH TANK)	1	2.5	2.5	0	0	4	4
TOTAL UNIT			3.5		0.75		5.0

STANDARD FOR PLUMBING FIXTURES		
WATER CLOSET (TOILETS) - TANK TYPE SINGLE FLUSH, MAXIMUM FLUSH VOLUME: 1.28 GALLONS PER FLUSH.	2022 CALGREEN 5.303.3.1	
PUBLIC LAVATORY FAUCET: MAXIMUM FLOW RATE - 0.5 GPM (1.9L/MIN) @ 60 PSI	2022 CALGREEN 5.303.3.4.1	
METERING FAUCETS: 0.2 GALLONS PER CYCLE	2022 CALGREEN 5.303.3.4.4	

FIXTURE FLOW RATES		
FIXTURE TYPE	WATER USE BASELINE FLOW RATE	SPECIFIED PLUMBING FIXTURE FLOW RATE
LAVATORY FAUCET (NONRESIDENTIAL)	0.5 GPM @ 60 PSI	0.5 GPM @ 60 PSI
METERING FAUCETS	0.20 GALLON/CYCLE	0.20 GALLON/CYCLE
GRAVITY TANK TYPE WATER CLOSET	1.28 GALLONS/FLUSH	1.1 GALLONS/FLUSH

LEGEND		
SYMBOL	ABBR.	DESCRIPTION
	S OR W	SOIL OR WASTE ABOVE FLOOR OR GRADE
	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
	GW	GREASE WASTE ABOVE FLOOR OR GRADE
	GW	GREASE WASTE BELOW FLOOR OR GRADE
	V	SANITARY VENT
	GV	SANITARY GREASE VENT
	DCW	DOMESTIC COLD WATER
		UNDERGROUND PIPE
	DHW	DOMESTIC HOT WATER
	DHWR	DOMESTIC HOT WATER RETURN
	D	INDIRECT DRAIN LINE
	CD	CONDENSATE DRAIN
	G	FUEL GAS
	TP	TRAP PRIMER
	CWV	COMBINE WASTE AND VENT BELOW FLOOR OR GRADE
		DIRECTION OF FLOW
	P.G.	PRESSURE GAUGE W/PETE COCK
	G.C.	GAS COCK
	P.R.V.	PRESSURE REDUCING VALVE
	SOV	SHUT-OFF VALVE
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
		DOWN
		RISE
		UNION
		SLOPE IN DIRECTION OF FLOW
	WHA	WATER HAMMER ARRESTOR
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONTINUATION
	RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
	ABV	ABOVE
	AFF	ABOVE FINISHED FLOOR
	AP	ACCESS PANEL
	BEH	BEHIND
	BEL	BELOW
	CFH	CUBIC FEET PER HOUR
	CI	CAST IRON
	CLG	CEILING
	CONN	CONNECTION
	CONT	CONTINUATION
	COTG	CLEANOUT TO GRADE
	COVB	CLEAN-OUT IN YARD BOX
	CW	COLD WATER
		DEMOLITION FIXTURES
	DP	DISABLED PERSON
	DTL	DETAIL
	EX	EXISTING
	FDC	FIRE DEPT. CONNECTION
	FFE	FINISHED FLOOR ELEVATION
	FLR	FLOOR
	FR	FROM
	FSH	FIRE SPRINKLER HEAD
	GR	GRADE
	HDR	HEADER
	IE	INVERT ELEVATION
	MH	MANHOLE
	RI&C	ROUGH-IN AND CONNECT
	SOV/YB	SHUT-OFF VALVE IN YARD BOX
	TPY	TYPICAL
	VTR	VENT THROUGH ROOF
	W/	WITH

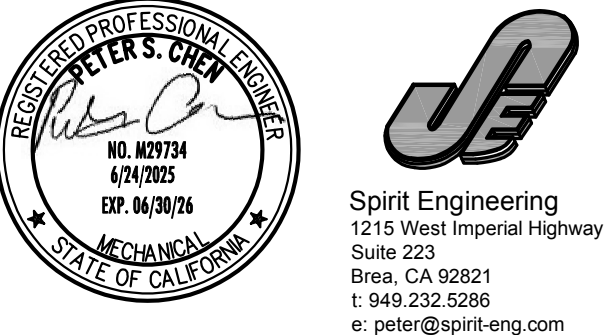
GENERAL NOTES AND SPECIFICATIONS	
1	FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT & FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE & INSTALL ALL WORK NOTED ON THE DRAWINGS AND/OR SPECIFIED HEREIN.
2	WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED IN A THOROUGH & WORKMANLIKE MANNER SATISFACTORY TO AND MEETING THE APPROVAL OF THE ARCHITECT.
3	MATERIALS: ALL MATERIALS, APPLIANCES & EQUIPMENT SHALL BE NEW & THE BEST OF THEIR RESPECTIVE KIND, FREE FROM ALL DEFECTS AND OF THE MAKE, BRAND AND QUALITY SPECIFIED.
4	SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE & FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDING FOR ANY OMISSIONS WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.
5	CODES AND PERMITS: ALL PLUMBING FIXTURES/EQUIPMENTS, INSTALLATION, ETC., SHALL CONFORM TO ALL APPLICABLE CALIFORNIA CURRENT CODES AND ORDINANCES, INCLUDING CALIFORNIA TITLE 24. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS.
6	AS-BUILT: CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT TRANSPARENCIES WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT.
7	GUARANTEE: CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIAL ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP & MATERIALS FOR A PERIOD OF 1 YEAR.
8	SUBMITTALS: CATALOG INFORMATION & CUTS OF ALL EQUIPMENT AND DEVICES SHALL BE SUBMITTED FOR REVIEW (SIX COPIES OF EACH).
9	COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC & INTENDED TO SHOW SCOPE. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE THE BEST ARRANGEMENT OF ALL DUCT, PIPES, CONDUIT, STRUCTURE, ETC.
10	CUTTING AND PATCHING: ALL CUTTING & PATCHING OF THE EXISTING STRUCTURE SHALL BE PROVIDED UNDER OTHER SECTIONS OF THE WORK. PROVIDE ALL NECESSARY REQUIREMENTS TO THE PROJECT SUPERINTENDENT.
11	CLEANUP: UPON COMPLETION OF THE WORK UNDER THIS SECTION THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS, EQUIPMENT & DEBRIS INCIDENTAL TO THIS WORK AND LEAVE THE PREMISES CLEAN AND ORDERLY.
12	ALL HOT WATER SUPPLY AND RECIRCULATION PIPING SHALL BE INSULATED AS FOLLOWS: PIPE SIZE (INCHES) INSULATION THICKNESS (INCHES)(K=0.22-0.28) UNDER 1" 1 INCH INSULATION
13	SOIL, WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON. NO-HUB SOIL PIPE AND FITTINGS TO CONFORM TO C.I.S.P. STANDARD 301.72. UNLESS APPROVED OTHERWISE.
14	HOT AND COLD WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBING WITH WROT COPPER FITTINGS. BRAZE ALL JOINTS WITH HARRIS STAY-SILV-O-LEAD-FREE BRAZING ALLOY. UNLESS APPROVED OTHERWISE.
15	SLOPE ALL CONDENSATE DRAIN LINES AT 1%.
16	SLOPE ALL SANITARY SEWER PIPING MINIMUM 2%. UNLESS APPROVED OTHERWISE.
17	SLOPE ALL STORM DRAIN PIPING MINIMUM 2%. UNLESS APPROVED OTHERWISE.
18	BASE SHELL DRAWINGS WITH LATEST REVISIONS PROVIDED BY OWNER SHALL APPLY TO THESE DRAWINGS. UNLESS APPROVED OTHERWISE.
19	WRAP ALL CAST IRON PIPE AND FITTINGS IN AND BELOW SLAB WITH 20 MIL. POLYETHYLENE WRAP AND 6" MINIMUM ENVELOPE OF CLEAN SAND ALL AROUND PIPE IN ACCORDANCE WITH ANSI/AWWA STANDARD C105/ A21.5-82.
20	FIRE SAFE ALL PIPING PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, AND CEILINGS WITH NELSON 3-HOUR CLK, FSP, OR CMP UL LISTED FIRE RATING PER MFG.'S DIRECTIONS.
21	PLUMBING CONTRACTOR SHALL PROVIDE ALL PLUMBING SERVICES REQUIRED BY THE AIR CONDITIONING CONTRACTOR (CONDENSATE DRAINS, WATER SERVICE, ETC.). REFER TO THE MECHANICAL PLANS FOR ANY PLUMBING SERVICES REQUIRED.
22	CONDENSATE PIPING SHALL BE INSULATED WITH 3/8" FOAM PLASTIC PIPE INSULATION.
23	EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN TEN FEET FROM OR AT LEAST THREE FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT.
24	CLEAN-OUTS SHALL BE INSTALLED AS PER SEC. 707 & 719 OF THE CALIFORNIA PLUMBING CODE-2022. ALL HORIZONTAL VENT LINES BELOW SLAB SHALL HAVE CLEANOUTS ABOVE GROUND PER CODE.
25	PROTECT ROOF RECEPTOR ON ROOF FROM RAIN WATER BY ELEVATING THE RIM 2 INCHES ABOVE ROOF SURFACE.
26	PROVIDE WATERTIGHT FLASHING WHEREVER PIPES PASS THRU EXTERIOR WALLS, ROOF AND FLOORS.
27	PROVIDE FELT WITH METAL BACKING VIBRATION ISOLATION SLEEVES OR PADS AT ALL PIPE HANGERS OR SUPPORTS AND ALL POINTS WHERE PIPING COMES IN CONTACT WITH ANY PORTION OF THE STRUCTURE. APPLIES TO ALL WATER AND WASTE PIPING.
28	LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO STARTING WORK OF THIS SECTION. MAKE REQUIRED ADJUSTMENTS TO CONNECT TO EXISTING UTILITIES. IF INDICATED POINTS OF CONNECTION CANNOT BE MADE TO EXISTING UTILITIES AS FOUND, THE CONTRACTOR SHALL, BEFORE CONTINUING, NOTIFY THE ARCHITECT PRIOR TO INSTALLING ANY WORK WHICH MAY BE AFFECTED.
29	IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AVAILABLE SPACES FOR INSTALLING THE WORK.
30	VALVES SHALL BE NIBCO, JENKINS, WALWORTH, STOCKHAM OR EQUAL. SERVICE PRESSURE SHALL BE SUITABLE FOR SERVICE INTENDED.
31	PROVIDE HANGERS AND SUPPORTS AS REQUIRED. PLUMBERS TAPE AND WIRE ARE NOT ACCEPTABLE.
32	CONTRACTOR SHALL AFFIX A MAINTENANCE LABEL TO ALL EQUIPMENT REQUIRING ROUTINE MAINTENANCE AND SHALL PROVIDE THREE COPIES OF MAINTENANCE AND OPERATING MANUALS TO THE OWNER.
33	CONTRACTOR SHALL ARRANGE FOR AND PAY FOR ALL UTILITY METERS AND UTILITY CONNECTIONS.
34	NO HOLES, NOTCHES, BLOCK OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
35	THE SEISMIC SHUT OFF SHALL BE INSTALLED SHALL BE MOUNTED RIGIDLY TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING.
36	ACCESSIBLE WATER HAMMER ARRESTERS SHALL BE INSTALLED FOR QUICK-ACTING VALVES. LOCATION AND METHOD OF INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATION.
37	NOTE NOT USED.
38	CONTRACTOR SHALL COMPLY WITH CPC 2022 CHAPTER 3 SECTION 306 & 307 REGARDING POINT OF DISCHARGE, CHAPTER 6 SECTION 608.3, 608.4 & 608.5 REGARDING PRESSURE RELIEF AND CHAPTER 7 SECTION 704, 710, 711, 713 & 714 REGARDING BUILDING SEWER SYSTEM.
39	NEW OR REPAIRED POTABLE WATER SYSTEMS ARE REQUIRED TO BE DISINFECTED BY CHLORINATION. 2022 CPC SECTION 609.9.
40	BACTERIOLOGICAL TESTING OF POTABLE WATER SYSTEM REQUIRED TO BE PERFORMED BY AN INDEPENDENT THIRD PARTY TESTING LABORATORY, 2022 CPC SEC. 609.9 (4).
41	ALL UNDERGROUND COPPER INSTALLED MUST BE COMPLETELY SLEEVED WITH A MINIMUM OF 3 MIL. PIPE SLEEVING MATERIAL.

The firm of Pryce Architects expressly reserves its copyright and other applicable property rights in these plans. These plans are not to be reproduced, changed, or copied in any form or manner whatsoever, nor are they to be assigned to a third party without the written consent of the Architect. In the event of an authorized reuse of these plans by a third party, the third party shall hold the Architect harmless, and shall bear the cost of the Architect's legal fees associated with defending and enforcing these rights. These plans are and shall remain the exclusive property of Pryce Architects.

PROJECT

Project Architect Approval:

Consultant:



Project Name:

Tenant Improvement for

Hanford Marketplace

Shops 3

2461 E. Lacy Blvd., Suite.

Hanford, CA 93232

SHEET

PLUMBING NOTES
AND SCHEDULES

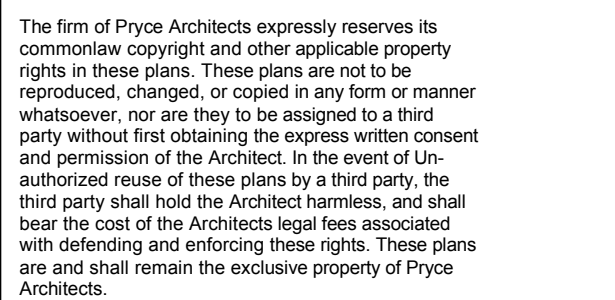
PROJECT DEVELOPMENT

Date Issued For
- PLAN CHECK

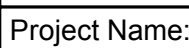
REVISIONS

No. Date Description

JOB NO. 25.076
DATE 06/30/2025
PROJECT COORDINATOR RON PRYCE
SCALE OF AS NOTED
SHEET NO. P-1



Consultant



Hanford Marketplace
Shops 3
22461 E. Lacy Blvd., Suite
Hanford, CA 93232



PROJECT DEVELOPMENT

Date	Issued For
11/11/2011	11/11/2011

PLAN CHECK

REVISIONS

No.	Date	Description
-----	------	-------------

JOB. NO. _____ SHEET NO. _____

25.076

DATE _____
SUBJECT _____

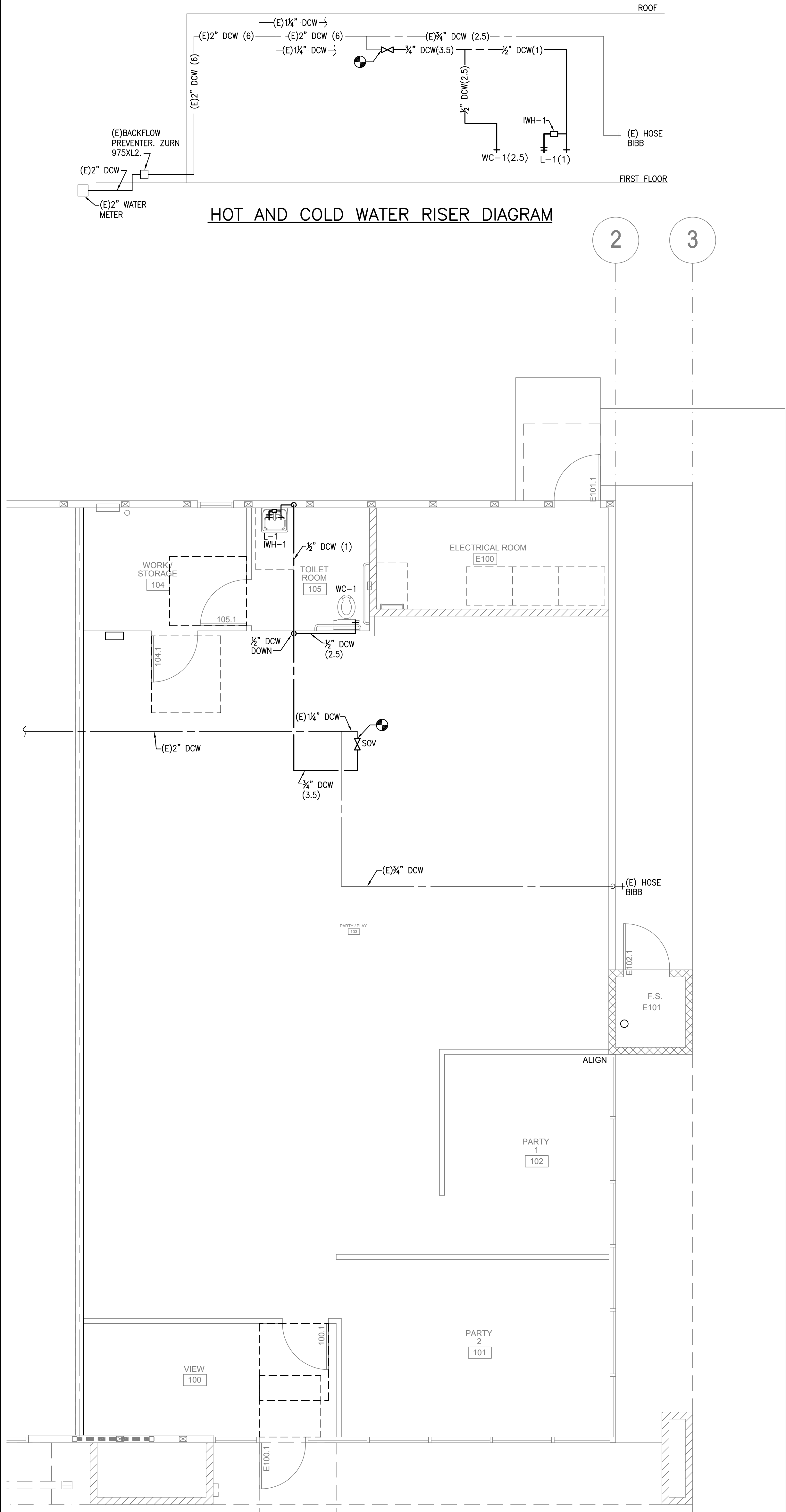
PROJECT COORDINATOR

RON PRYCE

SCALE
AS NOTED

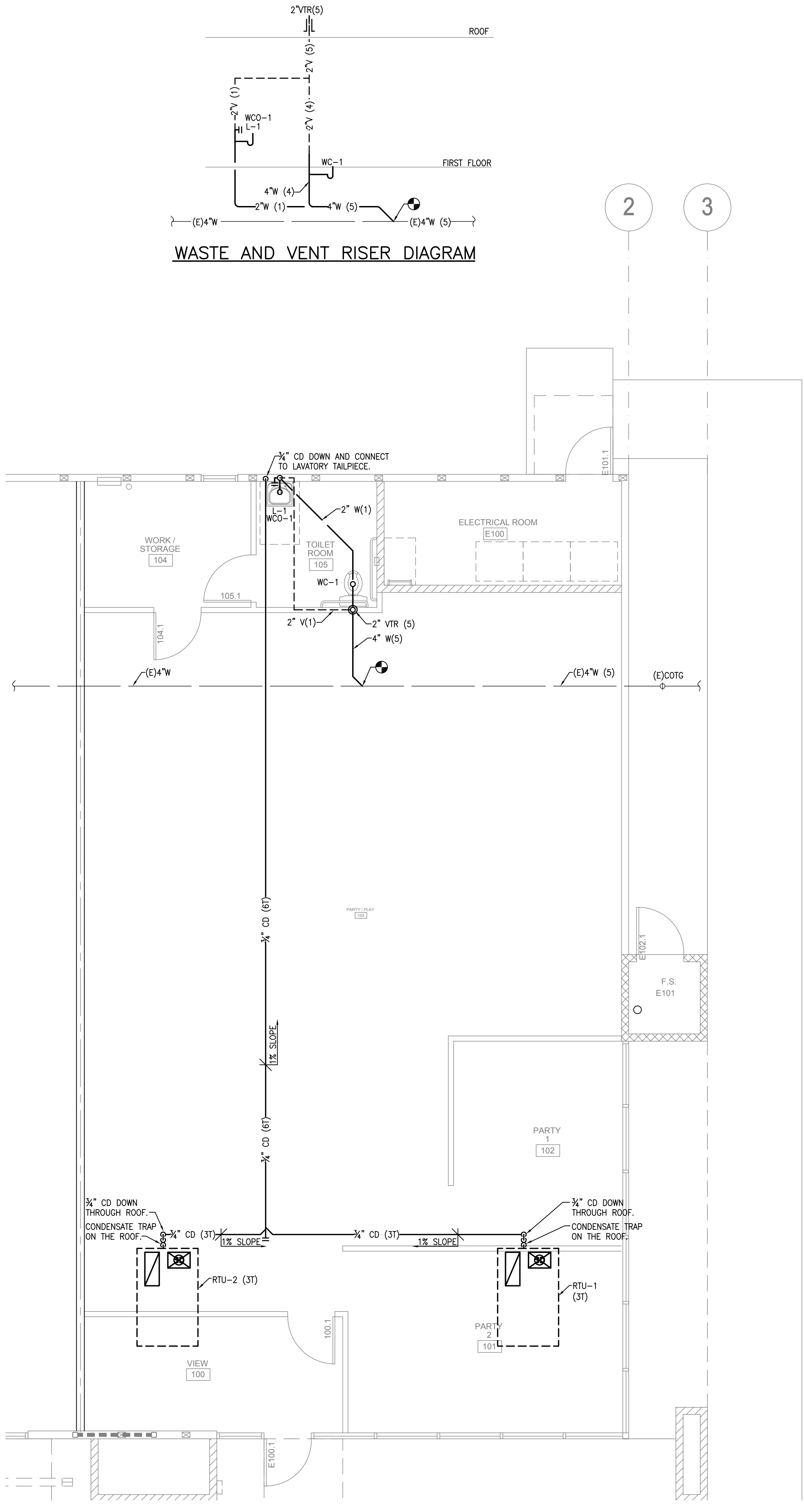
Page 33 of 819

- PLUMBING NOTES**
- REFER TO ARCHITECTURAL SPECIFICATIONS AND DRAWINGS FOR DESCRIPTION AND LOCATION OF CASEWORK AND EQUIPMENT.
 - THIS CONTRACTOR SHALL ROUGH-IN FOR THE ABOVE LISTED EQUIPMENT AFTER RECEIVING APPROVED DRAWINGS FROM THE OWNER.
 - THE VARIOUS EQUIPMENT SUPPLIERS SHALL SET EQUIPMENT IN PLACE AND THIS CONTRACTOR SHALL PROVIDE INTERCONNECTING PIPING NOT PROVIDED BY EQUIPMENT SUPPLIER. FINAL CONNECTIONS, SUITABLE STOPS AND TRAPS TO CASEWORK AND EQUIPMENT.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURE.
 - INSULATE WASTE PIPING AND WATER SUPPLY PIPING BELOW ALL HANDICAPPED LAVATORIES.
 - COORDINATE WASTE, VENT, AND WATER PIPING WITH STRUCTURAL BEFORE BEGINNING ANY WORK.
 - VERIFY ANY DRILLING, CUTTING OR ALTERING OF EXISTING CONCRETE SLAB NECESSARY FOR COMPLETE PLUMBING INSTALLATION BEFORE BEGINNING AND WORK.
 - COORDINATE WASTE, VENT, AND WATER PIPING WITH ALL TRADES BEFORE BEGINNING ANY WORK.
 - CONTRACTOR SHALL DEMOLISH EXISTING PLUMBING FIXTURES AND THEIR ASSOCIATED PIPING.
 - CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING PLUMBING PIPING IN THE FIELD. ADJUST THE PLUMBING DESIGN ACCORDINGLY.
 - CONTRACTOR SHALL REROUTE ANY EXISTING PLUMBING WATER, VENT, AND WASTE LINES IN THE THE WALLS THAT WILL BE DEMOLISHED, TO NEARBY WALLS.
 - LAVATORY FAUCETS IN RESTROOMS SHALL BE THE SELF CLOSING TYPE AND SHALL NOT EXCEED A WATER FLOW OF 0.2 GALLON PER USE.
 - CONTRACTOR SHALL DEMOLISH EXISTING LAVATORY, WATER CLOSET, TANK TYPE ELECTRIC WATER HEATER, AND SINK THAT WILL NOT BE REUSED.
 - CONTRACTOR SHALL SLOPE SEWER LATERALS AT MINIMUM 2%.
 - ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED.
 - ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN THE LOS ANGELES PLUMBING CODE CHAPTER 4.
 - ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS.
 - WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.



PLUMBING PLAN - WATER

SCALE: 1/4" = 1'-0"



PLUMBING PLAN - WASTE AND VENT

SCALE: 1/4" = 1'-0"

The firm of Pryce Architects expressly reserves its commonlaw copyright and other applicable property rights in these plans. These plans are not to be reproduced, changed, or copied in any form or manner whatsoever, nor are they to be assigned to a third party without first obtaining the express written consent and permission of the Architect. In the event of an authorized reuse of these plans by a third party, the third party shall hold the Architect harmless, and shall bear the cost of the Architect's legal fees associated with defending and enforcing these rights. These plans are and shall remain the exclusive property of Pryce Architects.

PROJECT

Project Architect Approval:

Consultant:



Project Name:

Tenant Improvement for

**Hanford Marketplace
Shops 3**
2461 E. Lacy Blvd., Suite.
Hanford, CA 93232

SHEET

PLUMBING PLANS

PROJECT DEVELOPMENT

Date	Issued For
-	PLAN CHECK

REVISIONS

No.	Date	Description

JOB NO. 25.076	SHEET NO. P-3
DATE 06/30/2025	PROJECT COORDINATOR RON PRYCE
SCALE AS NOTED	OF

ABBREVIATIONS

A, AMPS	AMPERES	KV	KILOVOLTS
A/C	AIR CONDITIONER	KVA	KILOVOLTS-AMPERES
AC	ALTERNATE CURRENT OR ABOVE COUNTER	KW	KILOWATTS
AF	AMPERE FRAME	KWH	KILOWATTS-HOURS
AFF	ABOVE FINISHED FLOOR	LCL	LONG CONTINUOUS LOAD
AFG	ABOVE FINISHED GRADE	LF	LINEAR FEET
AIC	AMPERE INTERRUPTION CURRENT	LCP	LIGHT CONTROL PANEL
AL	ALUMINUM	LPS	LOW PRESSURE SODIUM
ARCH	ARCHITECT/ARCHITECTURAL	LTC	LIGHTING
AS	AMPERE SWITCH	LTS	LIGHTS
ATS	AUTOMATIC TRANSFER SWITCH	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MCB	MAIN CIRCUIT BREAKER
BC	BARE COPPER	MCC	MOTOR CONTROL CENTER
BKRD	BACKBOARD	MH	METAL HALIDE
BKR	BREAKER	MIN	MINIMUM
C	CONDUIT	MLO	MAIN LUG ONLY
CB	CIRCUIT BREAKER	MOC	MAX OVERCURRENT PROTECTION
CCTV	CLOSED CIRCUIT TELEVISION	MTD	MOUNTED
CAT.	CANDLE	MSB	MAIN SWITCHBOARD
CD	CATALOG	MS	MAIN SWITCHGEAR
CFS	COMBINATION FIRE SMOKE DAMPER	N	NEUTRAL
CKT	CIRCUIT	NEC	NATIONAL ELECTRICAL CODE
C.O.	CONDUIT ONLY	NL	NIGHT LIGHT
CJ	COPPER	NTS	NOT TO SCALE
DET	DETAIL	N	NEW
DISC	DISCONNECT (SWITCH)	OH	OVERHEAD
DIST	DISTRIBUTION	P	POLE
DP	DISTRIBUTION PANEL	PH	PHASE
DWG	DRAWING	PA	PUBLIC ADDRESS
EC	ELECTRICAL CONTRACTOR	PDJ	POWER DISTRIBUTION UNIT
EG	EQUIPMENT GROUND (GREEN)	PNL	PANEL OR PANELBOARD
EM	EMERGENCY	PVC	POLYVINYL CHLORIDE
EMS	ENERGY MANAGEMENT SYSTEM	R	REMOVE
EMT	ELECTRICAL METALLIC TUBING	REC	RECEPTACLE
EPO	EMERGENCY POWER OFF	RE	RECEPTACLE
(E)	EXISTING	RL	RELOCATED
FA	FIRE ALARM	RMS	ROOT MENA SQUARE
FACP	FIRE ALARM CONTROL PANEL	SD	SMOKE DETECTOR
FLA	FULL LOAD AMPERES	SW	SPECIFICATIONS
FTV	FIELD TO VERIFY	SWBD	SWITCHBOARD
(F)	FUTURE	SYM	SYMMETRICAL
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	T	TELEPHONE
G, GND	GROUND	TB	TELEPHONE BACKBOARD
GEN	GENERATOR	TB	TYPICAL
GFI	GROUND FAULT INTERRUPTER	UG	UNDERGROUND
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	UGPS	UNDERGROUND PULL SECTION
HP	HORSEPOWER	U.O.N.	UNLESS OTHERWISE NOTED
HPS	HIGH PRESSURE SODIUM	V	VOLT
HZ	HERTZ	VA	VOLT-AMPERES
IG	ISOLATED GROUND	W	WATTS
ISC	INTERRUPTING SHORT CIRCUIT	WH	WATER HEATER
JB	JUNCTION BOX	W	WATER HEATER
KMIL	THOUSAND CIRCULAR MILLS	WP	WEATHERPROOF

SYMBOLS LIST

ANNOTATIONS

	LIGHTING FIXTURE DESIGNATION. REFER TO LIGHTING FIXTURE SCHEDULE
	DETAIL REFERENCE
	SHEET NOTE REFERENCE
	DETAIL NOTE REFERENCE
	EQUIPMENT DESIGNATION
	MECHANICAL EQUIPMENT CALLOUT. "EF" INDICATES UNIT TYPE AND "1" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.
	FEEDER CALLOUT
	REVISION REFERENCE

POWER

	STANDARD 20A, 120V-1Ø GROUNDING TYPE DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE FOUR-PLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE GFCI DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE GFCI FOUR-PLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE DEDICATED DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE SIMPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	20A, 120V-1Ø ISOLATED GROUND DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø COMBINATION USE CHARGER WITH TAMPER RESISTANT DUPLEX RECEPTACLE COOPER TR7745B, WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED ABOVE CEILING/BELOW TILE PER ATF - U.O.N.
	SPECIAL RECEPTACLE MOUTED AT +18" A.F.F. - U.O.N. AMPS - VOLTS & PHASE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH RELOCATED OR NEW INSTALLED EQUIPMENT SUPPLIER PRIOR TO PLACING ORDER.
	SPECIAL 30A RECEPTACLE MOUNTED AT +18" A.F.F. - U.O.N. VOLTS & PHASE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH INSTALLED EQUIPMENT SUPPLIER PRIOR TO PLACING ORDER.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED WITHIN FLUSH OR SURFACE FLOOR OUTLET BOX. "F" DENOTES FLUSH AND "S" DENOTES SURFACE.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE FOUR-PLEX RECEPTACLE MOUNTED WITHIN FLUSH OR SURFACE FLOOR OUTLET BOX. "F" DENOTES FLUSH AND "S" DENOTES SURFACE.
	NON FUSED DISCONNECT SWITCH. AMPS - VOLTS & POLES AS INDICATED
	FUSED DISCONNECT SWITCH. AMPS - VOLTS & POLE AS INDICATED
	COMBINATION STARTER DISCONNECT SWITCH. AMPS - VOLTS & POLE AS INDICATED
	MANUAL MOTOR STARTER SWITCH. RATED @ 1HP, MIN-120V, 1Ø, U.O.N. PROVIDE COMPLETE WITH THERMAL OVERLOAD PROTECTION
	JUNCTION BOX. SIZED BY THIS CONTRACTOR PER ACTUAL NUMBER OF CONDUITS AND/OR CONDUCTORS PASSING THRU ACCORDING TO NEC TABLE 370.16(g)(5)
	JUNCTION BOX, WALL MOUNTED AT +18" A.F.F. FOR FLEXIBLE CONNECTION TO PREWIRED FURNITURE SYSTEM. VERIFY CONNECTION REQUIREMENTS AND LOCATIONS WITH FURNITURE MANUFACTURER PRIOR TO ROUGH-IN
	CIRCUIT BREAKER (SEE SINGLE LINE DIAGRAM)
	FUSED SWITCH (SEE SINGLE LINE DIAGRAM)
	TRANSFORMER (SEE SINGLE LINE DIAGRAM)
	MOTOR OUTLET. H.P. OR F.L.A. - VOLTS & PHASE AS INDICATED. VERY ELECTRICAL CHARACTERISTICS AND CONNECTION REQUIREMENTS WITH INSTALLED EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN WORK
	BRANCH CIRCUIT PANELBOARD. FLUSH OR SURFACE MOUNTED AS INDICATED ON PANELBOARD SCHEDULE.
	SERVICE ENTRANCE OR DISTRIBUTION EQUIPMENT AS SPECIFIED
	MULTI-OUTLET SURFACE RACEWAY ASSEMBLY, TYPE OF OUTLET AS INDICATED ON PLAN
	THERMOSTAT FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE J-BOX BETWEEN +36" TO +48" A.F.F. - U.O.N. PROVIDE 1/2" C.O. TO ASSOCIATED HVAC UNIT OR ACCESSIBLE CEILING SPACE.

BRANCH CIRCUIT

	CONDUIT CONCEALED WITHIN BUILDING WALLS OR CEILING SPACE	7	DENOTES #12 THHN/THWN EQUIPMENT GROUND WIRE - U.O.N.
	CONDUIT ROUTED BELOW FINISHED GRADE AND/OR CONCRETE SLAB. INCLUDE CODE SIZED COPPER BOND CONDUCTOR (NOT SHOWN ON PLAN) IN ALL NON-METALLIC CONDUIT RUNS. HOMERUN TO DESTINATION AS INDICATED. REFER TO CONDUIT SYMBOL ABOVE	1	DENOTES #12 THHN/THWN ISOLATED GROUND WIRE - U.O.N.
	ALL HOMERUNS AND BRANCH CIRCUIT SHALL HAVE GROUND WIRE - U.O.N.		
	CROSS LINE DENOTES QUANTITY OF #12 THHN/THWN CONDUCTORS - U.O.N.		
	NO CROSS LINE DENOTES 2#12 & 1#12G THHN/THWN - U.O.N.		
	CONDUIT SHALL BE 3/4" MIN. - U.O.N.		

TELEPHONE/DATA

	COMBINATION TELEPHONE/DATA OUTLET AT +18" A.F.F., U.O.N. PROVIDE 1" CONDUIT STUB-UP 6" MINIMUM INTO ACCESSIBLE CEILING SPACE.
	TELEPHONE OUTLET AT +18" A.F.F., U.O.N. PROVIDE 1" CONDUIT STUB-UP 6" MINIMUM INTO ACCESSIBLE CEILING SPACE.
	DATA OUTLET AT +18" A.F.F., U.O.N. PROVIDE 1" CONDUIT STUB-UP 6" MINIMUM INTO ACCESSIBLE CEILING SPACE.
	COMBINATION TELEPHONE/DATA OUTLET MOUNTED WITHIN FLUSH OR SURFACE OUTLET BOX. "F" DENOTES FLUSH AND "S" DENOTES SURFACE
	COMBINATION TELEPHONE AND DATA OUTLET BOX, WALL MOUNTED AT +18" A.F.F. FOR FLEXIBLE CONNECTION TO FURNITURE SYSTEM. STUB A 1 1/4" C.O. UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. VERIFY CONNECTION REQUIREMENTS AND LOCATIONS WITH FURNITURE MANUFACTURER PRIOR TO ROUGH-IN
	CABLE TV DATA OUTLET. PROVIDE 1" C.O. STUB UP 6" MINIMUM INTO ACCESSIBLE CEILING SPACE
	TELEPHONE SYSTEM CONDUIT 3/4" C.O.
	TELEPHONE SYSTEM CONDUIT 1" C.O.
	TELEPHONE SYSTEM CONDUIT 1 1/4" C.O.
	TELEPHONE SYSTEM CONDUIT 1 1/2" C.O.

LIGHTING

	RECESS MOUNTED LIGHTING FIXTURE
	SURFACE MOUNTED LIGHTING
	STRIP LIGHTING FIXTURE
	TRACK LIGHTING FIXTURE. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION
	WALL MOUNTED LIGHTING FIXTURE
	RECESSED OR SURFACE MOUNTED DOWNLIGHTING FIXTURE
	CEILING MOUNTED EXIT SIGN. SHADED SIDE INDICATES DIRECTION AND NUMBER OF FACES. PROVIDE ARROWS AS REQUIRED
	WALL MOUNTED EXIT SIGN. SHADED SIDE INDICATES DIRECTION AND NUMBER OF FACES. PROVIDE ARROWS AS REQUIRED
	POLE MOUNTED LIGHTING FIXTURE
	STANDARD 20A, 120/277V-1Ø SPST TOGGLE SWITCH MOUNTED AT +48" A.F.F. - U.O.N. A. ALL SUBSTITUTED LIGHT FIXTURES B. ALL ELECTRICAL SERVICE EQUIPMENT, DISTRIBUTION EQUIPMENT AND PANELBOARDS. C. OTHER ITEMS AS SPECIFICALLY INDICATED.
	STANDARD 20A, 120/277V-1Ø DIMMING SWITCH MOUNTED AT +48" A.F.F. - U.O.N.
	STANDARD 20A, 120/277V-1Ø MECHANICAL TIMED SWITCH (0-1 HOUR, INTERMITTIC #FF60M)
	CEILING MOUNTED OCCUPANCY SENSOR WITH OVERRIDE SWITCH. "g" INDICATES ZONE. WATTSTOPPER W2000A OR EQUAL
	CEILING MOUNTED OCCUPANCY SENSOR
	WALL MOUNTED OCCUPANCY SENSOR MOUNTED AT +48" A.F.F. - U.O.N.
	INTERIOR CEILING MOUNTED PHOTOCCELL SENSOR

EMERGENCY LIGHTING

	RECESSED MOUNTED EMERGENCY LIGHTING FIXTURE CONNECTED TO INTEGRAL BATTERY BACKUP OR EMERGENCY GENERATOR POWER SOURCE. INTEGRAL BATTERY SHALL BE "BODINE" B30 SERIES OR EQUAL. REFER TO LUMEN TABLE #1
	SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE CONNECTED TO INTEGRAL BATTERY BACKUP OR EMERGENCY GENERATOR POWER SOURCE. INTEGRAL BATTERY SHALL BE "BODINE" B30 SERIES OR EQUAL. REFER TO LUMEN TABLE #1
	STRIP EMERGENCY LIGHTING FIXTURE CONNECTED TO INTEGRAL BATTERY BACKUP OR EMERGENCY GENERATOR POWER SOURCE. INTEGRAL BATTERY SHALL BE "BODINE" B30 SERIES OR EQUAL. REFER TO LUMEN TABLE #2
	RECESS OR SURFACE MOUNTED DOWNLIGHTING FIXTURE CONNECTED TO INTEGRAL BATTERY BACKUP OR EMERGENCY GENERATOR POWER SOURCE. INTEGRAL BATTERY SHALL BE "BODINE" B84C SERIES OR EQUAL. REFER TO LUMEN TABLE #3

GENERAL NOTES

1. PROVIDE ALL MATERIAL AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING SYSTEM.
2. COORDINATE AND OBTAIN APPROVALS FROM ALL RESPECTIVE UTILITY COMPANIES AS REQUIRED FOR A COMPLETE AND OPERATING INSTALLATION.
3. INSTALL RACEWAY SYSTEMS AS FOLLOWS:
 - A. USE ELECTRIC METALLIC TUBE CONDUIT IN ALL AREAS PROTECTED ABOVE CEILING OR IN WALLS
 - B. USE RIGID GALVANIZED STEEL IN ALL AREAS EXPOSED TO WEATHER OR PHYSICAL DAMAGE.
 - C. USE FLEXIBLE METALLIC CONDUIT ONLY IN AREAS AS PERMITTED BY LOCAL AUTHORITY. USE SEAL-TITE IN AREAS EXPOSED TO WEATHER
 - D. USE COMPRESSION TYPE FITTING FOR ELECTRICAL METALLIC TUBING WHERE UTILIZED.
 - E. USE P.V.C. CONDUIT UNDERGROUND WITH CODE SIZE GROUND. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.
 - F. THE USE OF ROMEX OR BX IS NOT PERMITTED.
4. ALL NEW WIRING SHALL BE COPPER TYPE "THHN/THWN" - U.O.N.
5. ALL CEILING MOUNTED ELECTRICAL DEVICES AND/OR EQUIPMENT SHALL BE SUPPORTED FROM THE CEILING GRID, NOT FROM THE CEILING TILE.
6. ALL FIXTURE, DEVICE, ETC., LOCATIONS SHALL BE VERIFIED WITH ARCH. DRAWINGS AS WELL AS EQUIPMENT SUPPLIER REQUIREMENTS PRIOR TO ANY ROUGH-IN WORK.
7. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS AN ALL NATIONAL ELECTRICAL CODES.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHTING FIXTURE MOUNTING KITS AS REQUIRED TO SUIT THE EXACT TYPE OF CEILING TO WHICH THEY ARE MOUNTED.
9. THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF EQUIPMENT, DEVICES, ETC., TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED TO. CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES, ETC., AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
10. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.
11. ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL LOCAL AND NATIONAL GOVERNING CODES.
12. ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N.
13. ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS.
14. COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WIRING FOR A PERIOD OF (1) YEAR - U.O.N.
15. ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID - COSTS FOR ALL HVAC CONTROL COMPONENTS, CONDUITS DEVICES, ETC., AS DEEMED NECESSARY FOR A COMPLETE AND OPERATING HVAC SYSTEM. REFER TO MECHANICAL DRAWINGS, DIAGRAMS AND SPECS FOR THOSE ITEMS REQUIRED UNDER THE ELECTRICAL SECTION OF THIS CONTRACT.
16. ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING SITE CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT. EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF AN REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.
17. ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, NEMA CONFIGURATION LOCATIONS, AND CONNECTION REQUIREMENT SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.
18. ELECTRICAL CONTRACTOR SHALL FURNISH THE FOLLOWING SHOP DRAWINGS FOR PRIOR TO APPROVAL:
 - A. ALL SUBSTITUTED LIGHT FIXTURES
 - B. ALL ELECTRICAL SERVICE EQUIPMENT, DISTRIBUTION EQUIPMENT AND PANELBOARDS.
 - C. OTHER ITEMS AS SPECIFICALLY INDICATED.THESE ITEMS SHALL BE APPROVED BY THIS OFFICE PRIOR TO ANY COMMENCEMENT OF PLACING ORDERS OF PERFORMING ANY ROUGH-IN WORK.
19. COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE N.E.C. ART. 250.
20. PENETRATIONS OF ALL FIRE RATED WALLS OR CEILINGS SHALL BE FIRE RATED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
21. PROVIDE RIVETED ON ENGRAVED PLASTIC NAMEPLATES (BLACK WITH WHITE LETTERS) FOR ALL MAJOR ELECTRICA EQUIPMENT.
22. PROVIDE THE OWNER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.
23. ALL DEVICE MOUNTED BACK TO BACK ON THE FIRE RATED WALL SHALL BE MOUNTED WITH 24" MINIMUM HORIZONTAL OFFSET.
24. LOCATION OF OUTLET SHOWN IS APPROXIMATE ONLY AND OUTLET MAY BE MOVED TO SUIT EQUIPMENT LAYOUT, COORDINATE WITH ARCHITECT AND/OR TENANT REPRESENTATIVES FOR EXACT LOCATION.
25. PANELBOARDS SHALL BE PROVIDED WITH TYPEDWRITTEN PANEL SCHEDULE MOUNTED INSIDE EACH PANEL AND ENGRAVE PRIMARY/SECONDARY PANEL LABELS FROM SWITCHBOARD.
26. VERIFY ALL DISCONNECT SWITCHES, FUSE SIZES AND TYPES WITH MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
27. A SEPARATE GROUNDING CONDUCTOR SHALL BE RUN IN ALL NON METALLIC CONDUIT RUNS.
28. ALL ELECTRICAL DEVICES SHOWN IN LIGHT ARE EXISTING TO REMAIN AND DARK ARE NEW.
29. FIRE ALARM AND SECURITY SYSTEMS ARE SHOWN FOR REFERENCE ONLY. REFER TO SUCH RESPECTIVE DRAWINGS FOR COMPLETE SCOPE OF WORK.
30. CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OWNER AND OTHER TRADES PRIOR TO SHUT DOWN OR DISRUPT ANY SERVICE TO EQUIPMENT, HVAC AND ELECTRICAL SYSTEM.
31. CONTRACTOR SHALL CUT OFF, CAP, ABANDON OR REMOVE ANY UNUSED CONDUIT/FEEDER BACK TO SOURCE.
32. CONTRACTOR SHALL DETERMINE IN FIELD FOR ANY CONDUIT/FEEDER TO REMAIN IN USE BUT INTERFERE WITH AREA OF DEMOLITION, THE CONTRACTOR SHALL ALERT THE ARCHITECT/ENGINEER FOR ADDITIONAL INSTRUCTION. IF REQUIRED, CONTRACTOR SHALL RELOCATE AND/OR REROUTE FEEDERS.
33. 130.5(C) VOLTAGE DROP: THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
34. 110.2 APPROVAL: ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
35. ALL ELECTRICAL WORK SHALL BE DESIGNED PER 2022 CALIFORNIA ELECTRICAL CODE, AND 2020 NATIONAL ELECTRICAL CODE AND 2022 BUILDING ENERGY EFFICIENCY STANDARDS.

PRYCE
ARCHITECTS

1936 RICHERT
CLOVIS, CA 93611
559. 439.0700
FAX 559.439.0708

RONALD G. PRYCE, C14974

The firm of Pryce Architects expressly reserves its copyright and other applicable property rights in these plans. These plans are not to be copied, changed, or used in any form or manner whatsoever, nor are they to be assigned to a third party without the express written consent and permission of the Architect. In the event of litigation, the third party shall hold the Architect harmless, and shall bear the cost of the Architect's legal fees associated with defending and enforcing these rights. These plans are and shall remain the exclusive property of Pryce Architects.

PROJECT

Project Architect Approval:

Consultant:

IGNISIC
seals

15141 Woodman Ave
Fresno, CA 93720
Phone 807.231.6247

Project Name:

Tenant improvement for

Hanford Marketplace

Shops 3

2461 E. Lacy Blvd., Suite.

Hanford, CA 93232

SHEET

**GENERAL NOTES,
LEGEND**

PROJECT DEVELOPMENT

Date	Issued For
-	PLAN CHECK

REVISIONS

No.	Date	Description
1	07/31/25	PLAN CHECK CORRECTIONS

JOB NO.

SHEET NO.

DATE

E1.0

PROJECT COORDINATOR

RON PRYCE

SCALE

OF

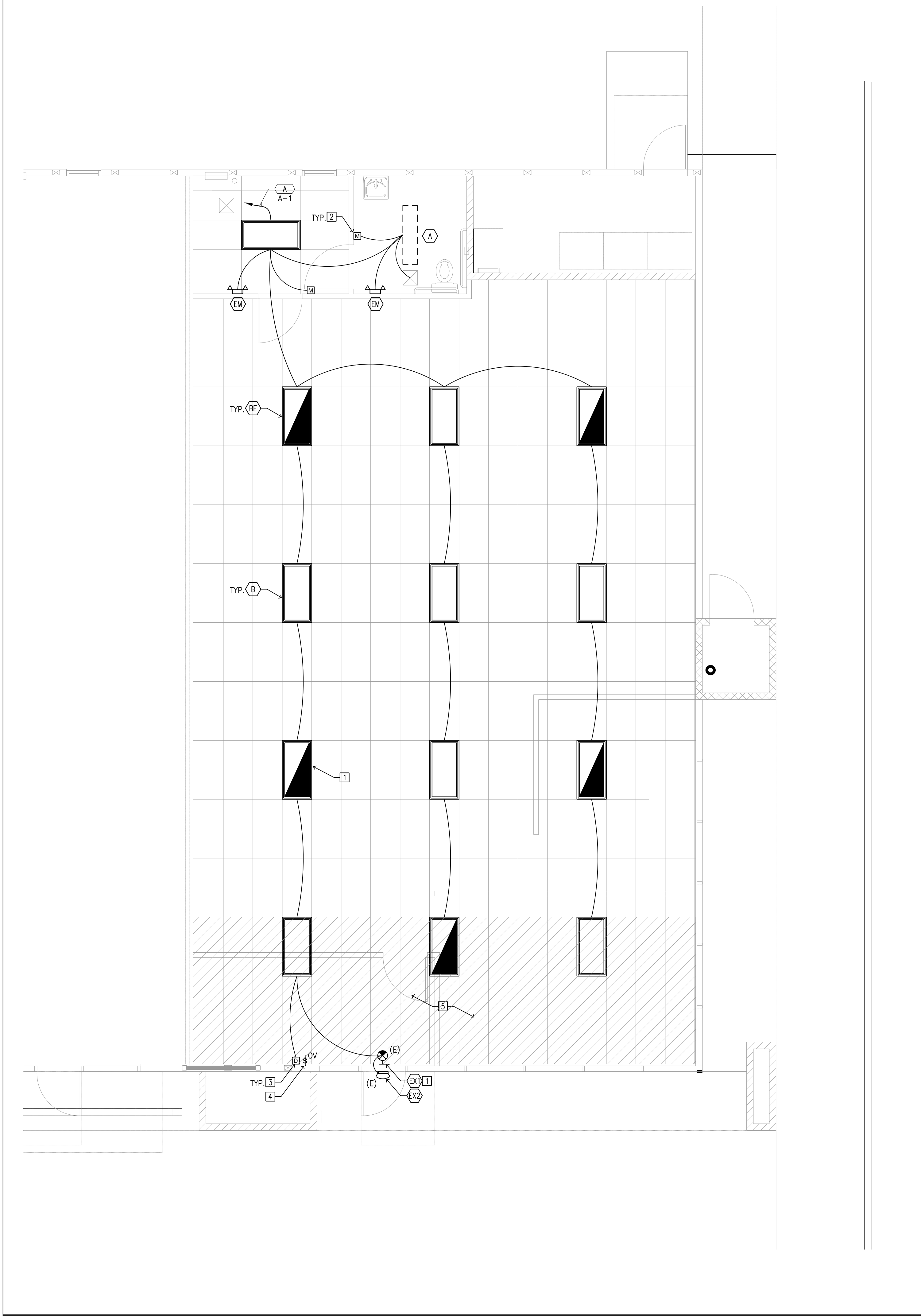
AS NOTED

SINGLE LINE DIAGRAM KEY NOTES

1. EXISTING MAIN SWITCHBOARD TO REMAIN.
2. EXISTING UTILITY ELECTRICAL METER TO REMAIN. VERIFY WITH UTILITY COMPANY.
3. EXISTING 2"Ø, 4#3/Ø, 1#6 GRD. TO REMAIN.
4. EXISTING ELECTRICAL PANELBOARD TO REMAIN. REFER TO PANEL SCHEDULES FOR MORE INFO.

GENERAL NOTES

1. ALL ITEMS SHOWN ARE EXISTING, U.O.N.
2. ALL NEW FEEDER CONDUCTORS SHALL BE COPPER, CONDUCTORS #2 AND LARGER SHALL BE "XHHW", CONDUCTORS SMALLER THAN #2 SHALL BE "THHN/THWN"
3. AMPACITY FOR CONDUCTORS SIZE 14 THROUGH 1AWG SHALL BE DETERMINE ON 60" COLUMN OF TABLE 310.16 AND 75" COLUMN FOR CONDUCTORS LARGER THAN #1AWG
4. ELECTRICAL SWITCHBOARDS, PANELBOARDS, CONTROL PANELS, METER SOCKET ENCLOSURE AND MOTOR CONTROL CENTERS SHALL BE PERMANENTLY MARKED AND VISIBLE TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. CEC 110.16
5. CONTRACTOR TO PROVIDE ANTI-OXIDANT COMPOUND AS NECESSARY AT TERMINAL OF DIFFERENT ALKALINE MATERIAL. VERIFY WITH ELECTRICAL EQUIPMENT MANUFACTURER FOR RECOMMENDATIONS AND INSTRUCTIONS.
6. ALL NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANEL BOARDS SHALL MATCH THE HIGHEST EXISTING AIC RATED BREAKERS WITHIN THAT BOARD.

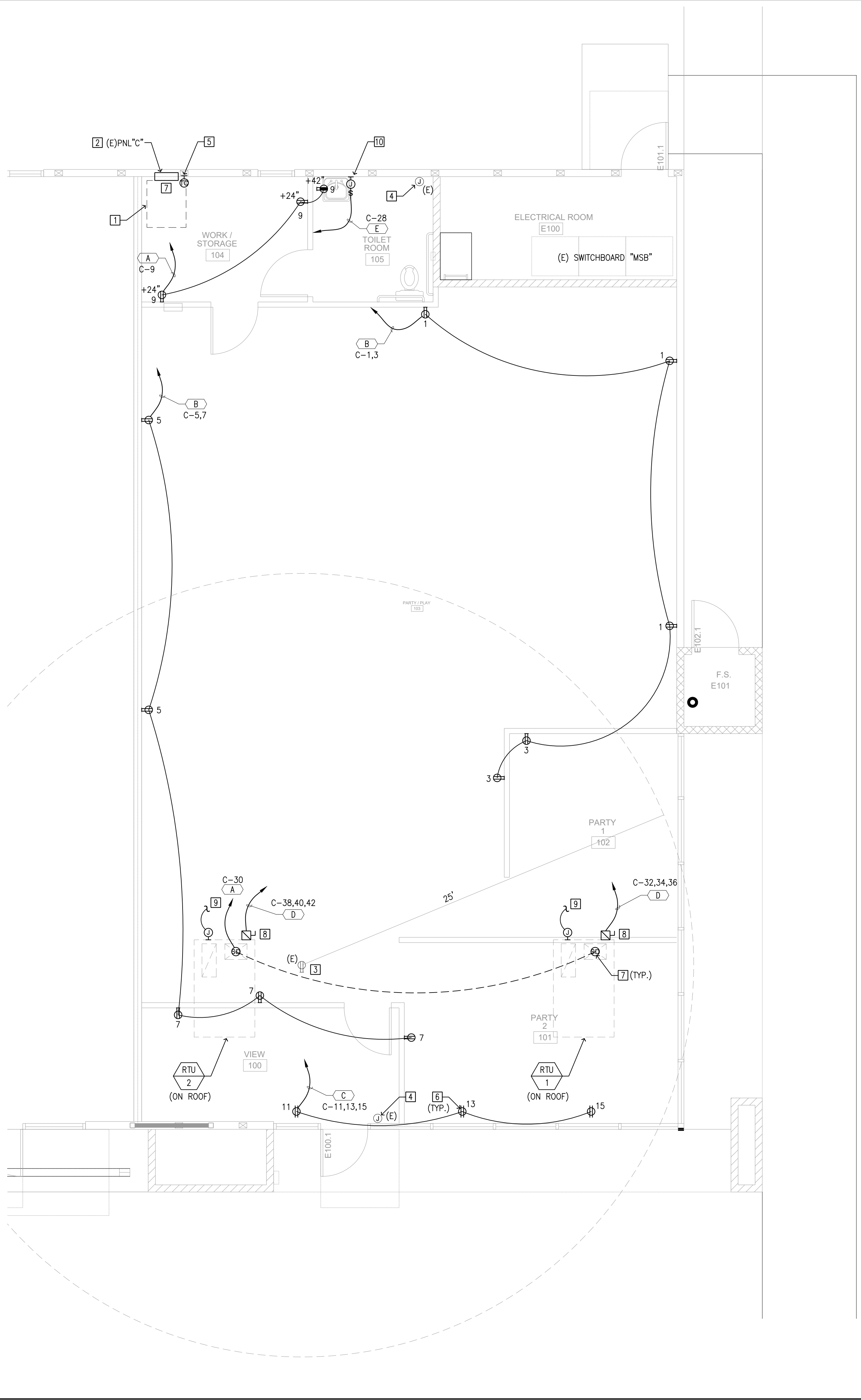


LIGHTING PLAN

SCALE: 1/4"=1'-0"

LIGHTING PLAN KEYED NOTES

- ALL EXIT SIGNS AND EMERGENCY BATTERY PACKS SHALL BE ENERGIZED WITH LOCAL LIGHTING CIRCUIT. ROUTE SEPARATE HOT LEG AHEAD OF SWITCH TO FIXTURE. UNLESS SHOWN OTHERWISE.
** EXIT WAYS SHALL BE ILLUMINATED WITH AT LEAST ONE FOOT CANDLE AT FLOOR LEVEL CBC 1006.2
** SEPARATE SOURCE OF POWER SHALL BE PROVIDED FOR EXIT ILLUMINATION. CBC 1011.5.3
** PROVIDE EXIT SIGNS WHEN TWO OR MORE EXITS ARE REQUIRED.
** EXIT SIGNS SHALL BE POWERED FROM TWO SOURCES: ONE NORMAL POWER AND ONE FROM MINIMUM 90 MINUTES EMERGENCY BATTERY PACK.)
- PROVIDE WALL MOUNTED MOTION SENSOR SWITCH. VERIFY COMPATIBILITY WITH LIGHT FIXTURE MANUFACTURER. LUTRON MAESTRO OR EQUAL.
- PROVIDE WALL MOUNTED DIMMER SWITCH. VERIFY COMPATIBILITY WITH LIGHT FIXTURE MANUFACTURER. LUTRON MAESTRO OR EQUAL.
- OVERRIDE SWITCH
- DAYLIT CONTROL NOT REQUIRED. LESS THAN 120W OF LIGHTING LOAD IN THE AREA. 130.1(d).



POWER PLAN

SCALE: 1/4"=1'-0"

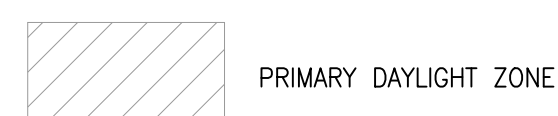
POWER PLAN KEYED NOTES

- PROVIDE TYPE-WRITTEN PANEL DIRECTORY PER NEC 408.2. MAINTAIN A WORKING SPACE OF NOT LESS THAN 30 INCHES IN WIDTH, 36 INCHES (FOR 120/208V) SHALL BE PROVIDED IN FRONT OF ELECTRICAL SERVICE EQUIPMENT. WHERE THE ELECTRICAL SERVICE EQUIPMENT IS WIDER THAN 30 INCHES, THE WORKING SPACE SHALL NOT BE LESS THAN THE WIDTH OF THE EQUIPMENT. NO STORAGE OF ANY MATERIALS SHALL BE LOCATED WITHIN THE DESIGNATED WORKING SPACE.
- EXISTING ELECTRICAL PANEL TO REMAIN. REFER TO PANEL SCHEDULE FOR CIRCUIT DESIGNATION.
- EXISTING WP, WR, GFCI, EXTRA DUTY RECEPTACLE ON ROOF TO REMAIN. SEE PANEL FOR CIRCUIT.
- EXISTING J-BOX FOR EXTERIOR SIGNAGE. EXISTING CIRCUIT TO REMAIN. REFER TO PANEL SCHEDULE FOR CIRCUIT DESIGNATION
- PROVIDE NEW TIMECLOCK FOR INTERIOR LIGHT
- WINDOW RECEPTACLE, MOUNTED ON CEILING OR +12" ABOVE WINDOW. VERIFY MOUNTING HEIGHT IN FIELD
- DUCT SMOKE DETECTOR. REFER TO MECHANICAL DRAWING FOR MORE INFORMATION. ROUTE FEEDER BELOW ROOF
- PROVIDE WP NEMA 3R FUSED DISCONNECT SWITCH. 30AS/3/30AF. REFER TO MECHANICAL SHEETS FOR MORE INFORMATION.
- PROVIDE 3/4"C. TO FC FOR CONTROL WIRING. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- JUNCTION FOR INSTANT HOT WATER HEATER. PROVIDE 1P30A MOTOR RATED TOGGLE SWITCH

GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID
- ALL TEMPERATURE CONTROL AND INTERLOCK CONDUIT AND WIRING SHALL BE BY ELECTRICAL CONTRACTOR U.N.O. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN
- ALL MULTI-WIRE BRANCH CIRCUITS SHALL ORIGINATE FROM THE PANELBOARD, THE GROUNDED AND UNGROUNDED CONDUCTORS SHALL BE GROUPED WITHIN THE PANELBOARD AND THEY SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS. ARTICLE 210.4 OF THE 2022 C.E.C.
- INSTALLATION AND USE LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING.
- ELECTRICAL BOXES NOT UL LISTED OR CANNOT BE IDENTIFIED FOR TYPE OF RATED CONSTRUCTION MUST HAVE PUTTY PADS COMPLETELY SEALED, ALL SIDE OF EACH ELECTRICAL OUTLET BOX.
- ALL CONDUIT RUN ABOVE CEILING TO BE STEEL CONDUIT.
- ALL WALL RECEPTACLES, PLATES, AND HEIGHTS SHALL BE BUILDING STANDARD 18" A.F.F. TO CENTER LINE OF BOX VERTICALLY MOUNTED, U.N.O.
- PRIOR TO SUBMITTING SHOP DRAWINGS, VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURE WITH ALL NECESSARY MOUNTING HARDWARE. SUPPORT AS REQUIRED BY THE CURRENT ADOPTED ISSUE OF THE 2022 CALIFORNIA BUILDING CODE, AS WELL AS ANY LOCAL CODES.
- PRIOR TO SUBMITTING SHOP DRAWINGS, VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURE WITH ALL NECESSARY MOUNTING HARDWARE. SUPPORT AS REQUIRED BY THE CURRENT ADOPTED ISSUE OF THE 2022 CALIFORNIA BUILDING CODE, AS WELL AS ANY LOCAL CODES.
- ALL EMERGENCY BATTERY PACK FIXTURES SHALL BE PROVIDED WITH A CONSTANT HOT CONNECTION TO THE CHARGING LEAD.
- COORDINATE WITH ARCHITECT/CLIENT FOR FIXTURE MOUNTING HEIGHT PRIOR TO INSTALLATION.
- LUMINAIRE DISCONNECT COMPLIANCE PER CEC 410.130(G) IS EXEMPT: EXCEPTION NO. 5: WHERE MORE THAN ONE LUMINAIRE IS INSTALLED AND SUPPLIED BY OTHER THAN MULTIWIRE BRANCH CIRCUIT, A DISCONNECTING MEANS SHALL NOT BE REQUIRED FOR EVERY LUMINAIRE WHEN THE DESIGN OF THE INSTALLATION INCLUDES DISCONNECTING MEANS, SUCH THAT THE ILLUMINATED SPACE CANNOT BE LEFT IN TOTAL DARKNESS.
- REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- COORDINATE ALL LIGHTING AND CONTROLS COMPONENTS WITH MECHANICAL DIFFUSERS.
- EQUIPMENT DENOTES AS FOLLOWS:
D - DEMOLISH
RL - RELOCATE
E - EXISTING TO REMAIN.
N - PROVIDE NEW.

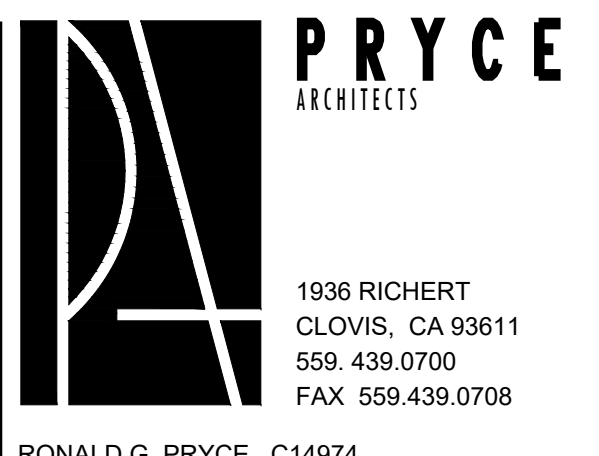
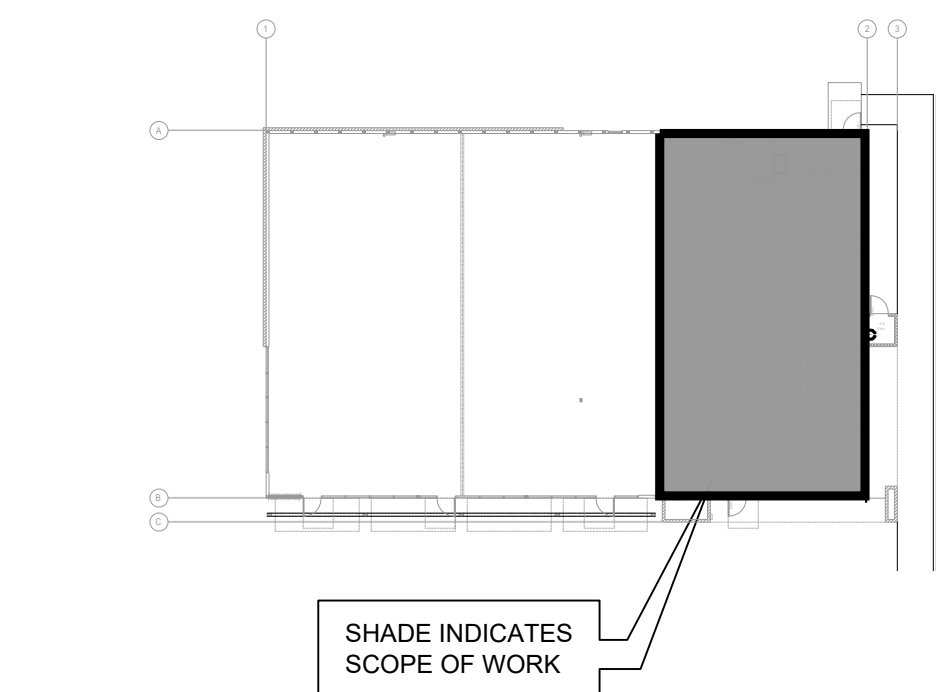
LEGEND



FEEDER SCHEDULE

- PROVIDE 1/2"C., 2#12, 1#12 GRD.
- PROVIDE 1/2"C., 4#12, 1#12 GRD.
- PROVIDE 3/4"C., 6#12, 1#12 GRD.
- PROVIDE 3/4"C., 3#8, 1#10 GRD.
- PROVIDE 1/2"C., 2#10, 1#10 GRD.

KEY PLAN



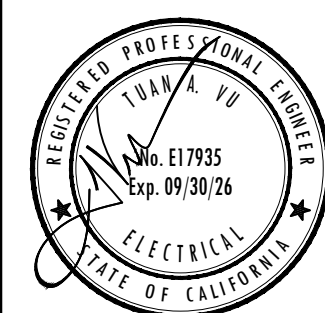
RONALD G. PRYCE, C14974

The firm of Pryce Architects expressly reserves to itself all copyright and other applicable property rights in these plans. These plans are not to be reproduced, changed, or copied in any form or manner whatsoever, nor are they to be assigned to a third party without first obtaining the express written consent and permission of the Architect. In the event of Un-authorized reuse of these plans by a third party, the third party shall hold the Architect harmless, and shall bear the cost of the Architect's legal fees associated with defending and enforcing these rights. These plans are and shall remain the exclusive property of Pryce Architects.

PROJECT

Project Architect Approval:

Consultant:



Project Name:

Tenant improvement for

Hanford Marketplace

Shops 3

2461 E. Lacy Blvd., Suite.

Hanford, CA 93232

SHEET

ELECTRICAL PLANS
NOTES

PROJECT DEVELOPMENT

Date Issued For
- PLAN CHECK

REVISIONS

No. Date Description
1 07/31/25 PLAN CHECK
CORRECTIONS

JOB NO.

SHEET NO.

DATE

PROJECT COORDINATOR

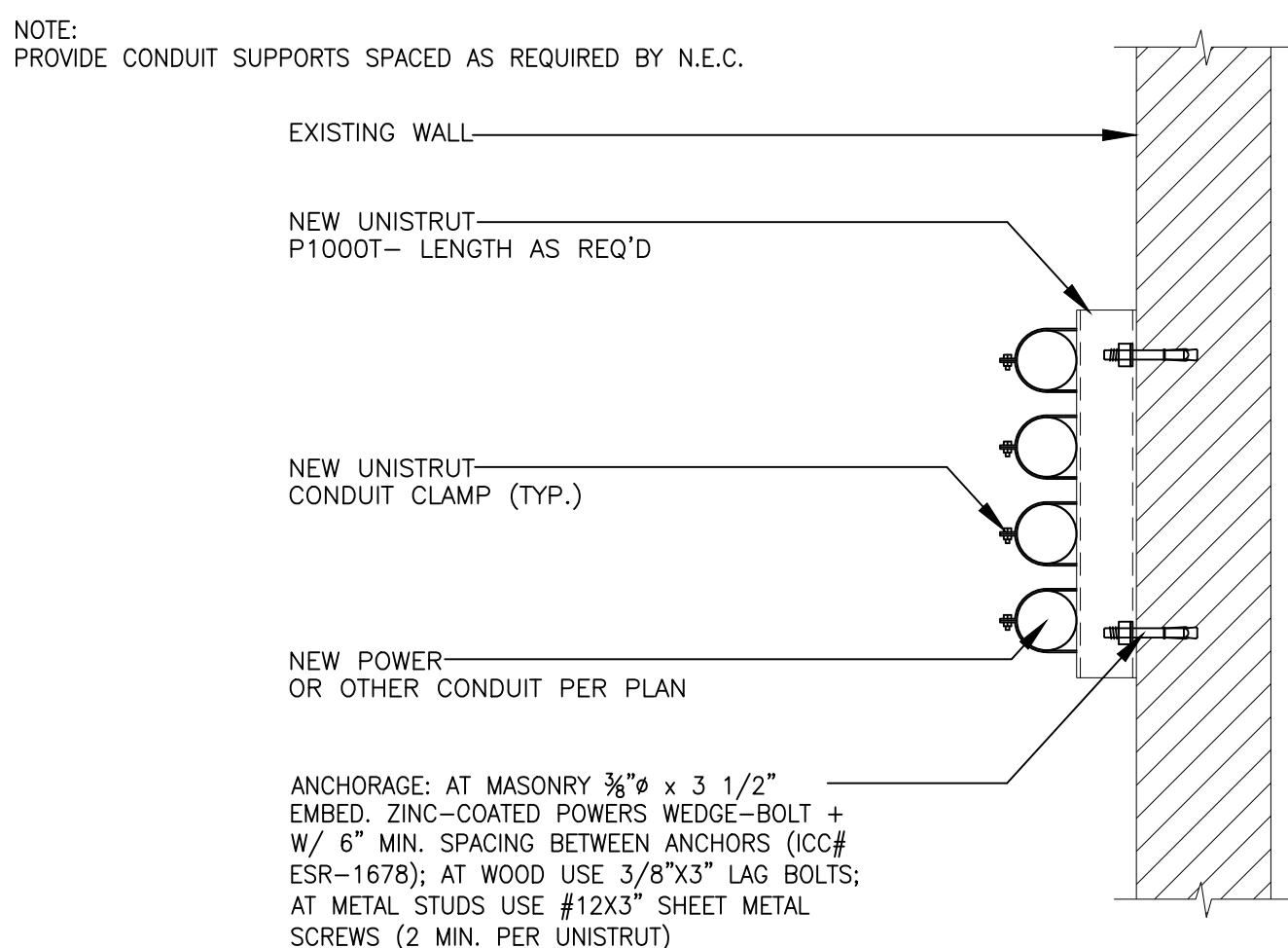
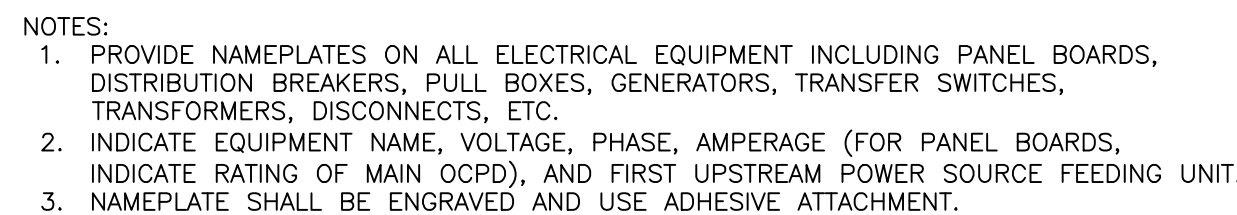
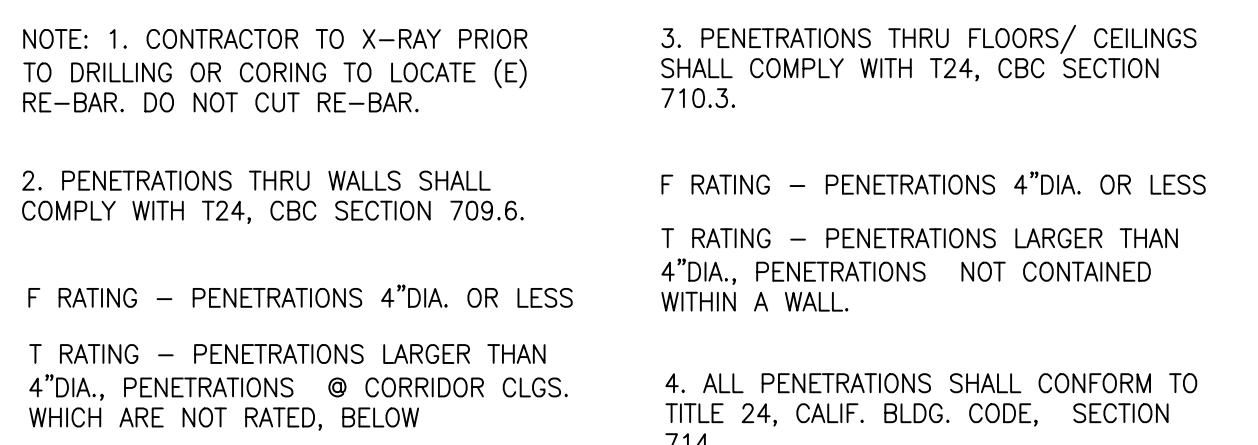
RON PRYCE

SCALE

OF

AS NOTED

E2.0



9	TYPICAL NAMEPLATE
---	-------------------



CONN. AMPS	82.07	AMPS
DIV. AMPS	89.14	AMPS

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Indoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: Hanford Marketplace Shop 3

Report Page: (Page 1 of 7)

Project Address: 2461 E. Lacy Blvd.

Date Prepared: 6/25/2025

A. GENERAL INFORMATION

01 Project Location (city)

02 Climate Zone

03 Occupancy Types Within Project (select all that apply):

04 Total Conditioned Floor Area (ft²)

05 Total Unconditioned Floor Area (ft²)

06 # of Stories (Habitable Above Grade)

07

08

09

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

564

565

566

567

568

569

570

571

572

573

574

575

576

577

578

579

580

581

582

583

584

585

586

587

588

589

590

591

592

593

594

595

596

597

598

599

600

601

602

603

604

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

636

637

638

639

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

670

671

672

673

674

675

676

677

678

679

680

681

682

683

684

685

686

687

688

689

690

691

692

693

694

695

696

697

698

699

700

701

702

703

704

705

706

707

708

709

710

711

712

713

714

715

716

717

718

719

720

721

722

723

724

725

726

727

728

729

730

731

732

733

734

735

736

737

738

739

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

757

758

759

760

761

762

763

764

765

766

767

768

769

770

771

772

773

774

775

776

777

778

779

780

781

782

783

784

785

786

787

788

789

790

791

792

793

794

795

796

797

798

799

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

818

819

820

821

822

823

824

825

826

827

828

829

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

850

851

852

853

854

855

856

857

858

859

860

861

862

863

864

865

866

867

868

869

870

871

872

873

874

875

876

877

878

879

880

881

882

883

884

885

886

887

888

889

890

891

892

893

894

895

896

897

898

899

900

901

902

903

904

905

906

907

908

909

910

911

912

913

914

915

916

917

918

919

920

921

922

923

924

925

926

927

928

929

930

931

932

933

934

935

936

937

938

939

940

941

942

943

944

945

946

947

948

949

950

951

952

953

954

955

956

957

958

959

960

961

962

963

964

965

966

967

968

969

970

971

972

973

974

975

976

977

978

979

980

981

982

983

984

985

986

987

988

989

990

991

992

993

994

995

996

997

998

999

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1010

1011

1012

1013

1014

1015

1016

1017

1018

1019

1020

1021

1022

1023

1024

1025

1026

1027

1028

1029

1030

1031

1032

1033

1034

1035

1036

1037

1038

1039

1040

1041

1042

1043

1044

1045

1046

1047

1048

1049

1050

1051

1052

1053

1054

1055

1056

1057

1058

1059

1060

1061

1062

1063

1064

1065

1066

1067

1068

1069

1070

1071

1072

1073

1074

1075

1076

1077

1078

1079

1080

1081

1082

1083

1084

1085

1086

1087

1088

1089

1090

1091

1092

1093

1094

1095

1096

1097

1098

1099

1100

1101

1102

1103

1104

1105

1106

1107

1108

1109

1110

1111

1112

1113

1114

1115

1116

1117

1118

1119

1120

1121

1122

1123

1124

1125

1126

1127

1128

1129

1130

1131

1132

1133

1134

1135

1136

1137

1138

1139

1140

1141

1142

1143

1144

1145

1146

1147

1148

1149

1150

1151

1152

1153

1154

1155

1156

1157

1158

1159

1160

1161

1162

1163

1164

1165

1166

1167

1168

1169

1170

1171

1172

1173

1174

1175

1176

1177

1178

1179

1180

1181

1182

1183

1184

1185

1186

1187

1188

1189

1190

1191

1192

1193

1194

1195

1196

1197

1198

1199

1200

1201

1202

1203

1204

1205

1206

1207

1208

1209

1210

1211

1212

1213

1214

1215

1216

1217

1218

1219

1220

1221

1222

1223

1224

1225

1226

1227

1228

1229

1230

1231

1232

1233

1234

1235

1236

1237

1238

1239

1240

1241

1242

1243

1244

1245

1246

1247

1248

1249

1250

1251

1252

1253

1254

1255

1256

1257

1258

1259

1260

1261

1262

1263

1264

1265

1266

1267

1268

1269

1270

1271

1272

1273

1274

1275

1276

1277

1278

1279

1280

1281

1282

1283

1284

1285

1286

1287

1288

1289

1290

1291

1292

1293

1294

1295

1296

1297

1298

1299

1300

1301

1302

1303

1304

1305

1306

1307

1308

1309

1310

1311

1312

1313

1314

1315

1316

1317

1318

1319

1320

1321

1322

1323

1324

1325

1326

1327

1328

1329

1330

1331

1332

1333

1334

1335

1336

1337

1338

1339

1340

1341

1342

1343

1344

1345

1346

1347

1348

1349

1350

1351

1352

1353

1354

1355

1356

1357

1358

1359

1360

1361

1362

1363

1364

1365

1366

1367

1368

1369

1370

1371

1372

1373

1374

1375

1376

1377

1378

1379

1380

1381

1382

1383

1384

1385

1386

1387

1388

1389

1390

1391

1392

1393

1394

1395

1396

1397

1398

1399

1400

1401

1402

1403

1404

1405

1406

1407

1408

1409

1410

1411

1412

1413

1414

1415

1416

1417

1418

1419

1420

1421

1422

1423

1424

1425

1426

1427

1428

1429

1430

1431

1432

1433

1

Exhibit B
Building Division and Fire Department Conditions of Approval

BUILDING DIVISION
CUP0050-25 Children's Fun Center
9-23-25
2461 E Lacey Blvd

Contact Building Official: Tom Webb (559) 585-2584
Concerning questions that you may have on the conditions listed below:

1. That building permits must be obtained from the City Building Division for each structure to include but not limited to: buildings, pools, fences, trash enclosures, signs and carports for any structural, plumbing, electrical or mechanical **work being done**.
2. That no building or structure shall be used or occupied, and no change in the existing occupancy classification of building or structure or portion thereof shall be made until the building official has approved the change and issued a Certificate of Occupancy.
3. That detailed dimensioned plans be provided to the Building Division for each structure prior to obtaining construction permits. Each structure will require a separate submittal and permit.
4. That each structure will require plans and calculations signed by an architect or engineer licensed to practice in the State of California. Submittal shall consist of as applicable:

- 4.1 1 copy of the City of Hanford Permit Application form
- 4.2 1 electronic set of Drawings, unless noted, including:
 - 4.2.1 Reserved
 - 4.2.2 Site Plan
 - 4.2.3 Architectural Drawings
 - 4.2.4 Structural Drawings
 - 4.2.5 Electrical Drawings
 - 4.2.6 Mechanical Drawings
 - 4.2.7 Plumbing Drawings
 - 4.2.8 Reserved
 - 4.2.9 Planning Dept. "Conditions of Approval" or "Resolution"
printed on the drawings and part of the drawing submittal
 - 4.2.10 Original shall be stamped and wet signed by an Architect or
Engineer licensed in the State of California.

****** Each structure will be considered a separate submittal. Grading, Landscaping, Signage and all Fire permits are separate submittals as well and require separate applications and submittals as applicable. ******

- 4.3 1 electronic set of documentation, unless noted, including:
 - 4.3.1 Architectural Specifications
 - 4.3.2 Structural Calculations
 - 4.3.3 Electrical Calculations, if not included on the drawings
 - 4.3.4 Mechanical Calculations, if not included on the drawings
 - 4.3.5 Plumbing Calculations, if not included on the drawings
 - 4.3.6 Energy Calculations, if not included on the drawings
 - 4.3.7 CalGreen Compliance **including C & D Recycle plan**
 - 4.3.8 **Compliance with the City of Hanford Landscape Ordinance**
 - 4.3.9 Original shall be stamped and wet signed by an Architect or
Engineer licensed in the State of California.
5. **That the site, as well as the buildings, shall be made accessible and usable by the disabled in accordance with the California Building Code, Chapter 11B.**
6. That all special inspection reports be submitted to the Building Division prior to final inspection.

7. That all construction shall conform to **the Most Current Edition** (2022) of the California Building Code, California Electrical Code, California Mechanical Code, California Plumbing Code, California Fire Code, California Energy Code and CalGreen.
8. That the tenant, lessee, and/or owner are responsible for compliance with the Americans with Disabilities Act. By federal law your facility **must be made accessible to the highest degree possible.**
9. That the applicant provides a complete set of AS-BUILT drawings on CD, in "tif" format, to the Building Division prior to Final Inspection.
10. That each of these drawings apply **to any/all work done** to the structure at this time.
11. **This project is a Change of Occupancy. A permit is required. A complete set of plans is required. Plans must include scaled drawings of existing and proposed floor plans detailing all work to be done.**
12. That form #55 shall be filled out and returned with plans.
13. That the occupant load shall be as per the 2022 CBC (14)

Contact Fire Chief Dan Perkins @ dperkins@hanfordca.gov or (559) 585-2145 concerning questions that you may have on the following comments:

CUP0050-25

- If the occupant intends on having the “day care” portion of the amenity on site, the Fire Alarm system will need to be upgraded with a pull station at the exits integrated with their current fire protection system with additional emergency lighting added to all exits with upgraded updated integrated signs in accordance with the CFC.
- Furthermore, to define the amenity ability to not have parents present as a business model changes the occupancy.
- The number of children present unattended by parents then becomes an item that must be posted, as an occupancy load calculation separate but in addition to the posted regular occupant load, in accordance with the CFC.
- Further compliance with all interior finishes required - floor wall and furniture to comply with flame spread ratings, must also be in accordance with CFC.
- If no onsite daycare processes or possibilities exist, then it shall be posted that children must be attended at all times by parents in a conspicuous spot, much like a Fire extinguisher sign and or an occupancy load sign.

Exhibit C
Operational Statement

Operational Statement: **Paradise Playtown**

Hours of Operation:

Monday 12:00 pm - 7:00 pm or 9:00 am - 5:00 pm

Tuesday - Sunday 9:00 am - 7:00 pm

***** We're still finalizing our business hours so we can make sure they're perfect for little ones ages 0-5 and their families *****

Paradise Playtown is an indoor playground specially designed for children ages 0–5.

We provide a safe, fun, and engaging space where little ones can explore, play, and learn.

What We Offer:

- **Open Play / One-Hour Play Sessions** – Customers can pay for all-day access with re-entry. Play sessions are scheduled in one-hour blocks to ensure every child has a chance to enjoy our space.
- **Memberships** – Pay monthly for unlimited visits for your child.
- **Punch Cards** – Purchase 10 visits without committing to a monthly subscription.
- **Birthday Party Area Rental** – Reserve a party area for 2 hours during open play hours.
- **Private Party Package** – Rent the entire playground exclusively for your guests.

Special Programs & Events:

- **Monthly Fun Events** – Fun activities to bring families together like meet & greet with their favorite character.
- **Designated Play Hours for Special Needs & Disabled Kids** – A safe and comfortable environment for every child to play and enjoy.

Additional Info:

- Pre-packaged snacks and drinks available for purchase.
- Services can be booked online or in person.
- All guests must sign a waiver before playing.
- Adult supervision required at all times.
- Children will receive a wristband with their name, date, and time for re-entry or to track their one-hour session.
- Daily ticket limits online to maintain a safe and fun atmosphere.

Tenant Improvement For

HANFORD PARADISE

2461 E. Lacey Blvd.,
Hanford, CA 93230

CAL GREEN NOTES	FIRE DEPARTMENT NOTES	SITE PARKING DATA	BUILDING DATA	PROJECT DATA	SHEET INDEX	REVISION SCHEDULE	PROJECT TEAM
1. PER SECTION 301.3, PROJECT VALUATION IS UNDER \$200,000 2. PER SECTION 301.3.1, PLUMBING FIXTURES SHALL MEET NON-RESIDENTIAL CAL GREEN STANDARDS.	1. ALL ELECTRICAL, MECHANICAL AND BUILDING TRADES SHALL BE INSTALLED PER THE CALIFORNIA FIRE CODE, CHAPTER 9 AND NFPA 20 AND SHALL BE INSPECTED BY THE BUILDING INSPECTOR FOR COMPLIANCE WITH THE CALIFORNIA MECHANICAL AND ELECTRICAL CODES. 2. FIRE SPRINKLER SYSTEM SHALL BE DONE UNDER A SEPARATE FIRE DEPARTMENT PERMIT 3. CEILING TILES AND HARD LID CEILINGS SHALL NOT BE INSTALLED UNTIL THE FIRE DEPARTMENT HAS CONDUCTED ITS INSPECTIONS FOR THE FIRE SPRINKLER SYSTEM AND AFTER THE BUILDING DEPARTMENT HAS GIVEN THEIR APPROVAL TO DROP AND INSTALL CEILINGS. 4. HVAC UNITS CONTAINING DUCT SMOKE DETECTORS SHALL BE TESTED IN THE PRESENCE OF THE FIRE INSPECTOR. (THESE DEVICES SHALL BE PRE-TESTED PRIOR TO SCHEDULING AN INSPECTION)	PER C.O.H. MUNICIPAL CODE 17.54.040 INDOOR COMMERCIAL RECREATION FACILITY - 2,019 S.F. / 300 = 6.73 STALLS = PROVIDE 7 STALLS PARKING STALLS (SCOPE OF WORK LIMITS): STANDARD (EXISTING): 5 STALLS ACCESSIBLE (EXISTING): 2 STALLS TOTAL STALLS (THIS PHASE): 7 STALLS TOTAL SPACES 7 SPACES	BUILDING ANALYSIS: APN: C-R ZONEING: VB - SPRINKLERED BUILDING TYPE: B OCCUPANCY: (DEMISING WALL - NON RATED) OCCUPANCY SEPARATION: BUILDING SQUARE FOOTAGE ANALYSIS T.1. BUILDING SQUARE FOOTAGE: 2,019 S.F. NET LEASEABLE: 2,019 S.F.	ADDRESS: 2461 E. LACEY BLVD., STE 109 HANFORD, CA 93230 LOCATION: HANFORD MARKET PLACE, LACEY BLVD & HWY. 43, HANFORD, CA APN: SC PHD AND CO ZONING: V-B SPRINKLERED CONSTRUCTION: PROJECT DESCRIPTION TENANT IMPROVEMENT IS AN OPEN PLAN PLAY AREA FOR CHILDREN WITH SUPERVISION. (NO CHILD CARE) PLAY AREA WITH PARTY AREAS OCCUPANCY TO BE LIMITED TO 49 OCCUPANTS	SHEET DESCRIPTION ARCHITECTURAL A0.0 COVER SHEET / SITE PLAN A0.1 OCCUPANCY / EXITING / SCH. / DTLS. / INT. ELEV. A2.0 FLOOR PLAN / REFLECTED CEILING / RM. SCH. A6.0 DETAILS A6.1 DETAILS MECHANICAL M-1 MECHANICAL NOTES AND ABBREVIATIONS M-2 MECHANICAL SCHEDULES AND DETAILS M-3 TITLE 24 CALCULATIONS M-4 MECHANICAL PLAN PLUMBING P-1 PLUMBING NOTES AND SCHEDULES P-2 PLUMBING DETAILS P-3 PLUMBING PLANS ELECTRICAL E1.0 GENERAL NOTES, LEGEND E2.0 ELECTRICAL PLANS, NOTES E3.0 ELECTRICAL DETAILS E4.0 ELECTRICAL SPECIFICATIONS E4.1 ELECTRICAL SPECIFICATIONS E5.0 T-24 COMPLIANCE FORMS PROJECT DESCRIPTION A NEW TENANT IMPROVEMENT IN AN EXISTING WOOD FRAMED SHELL BUILDING. NO MODIFICATIONS TO THE EXISTING SHELL INTERIOR FRAMED WITH METAL STUDS AND GYPSUM BOARD VICINITY MAP APPLICABLE CODES 2022 CALIFORNIA ADMINISTRATION CODE (CAC) PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) 2022 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC) 2022 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24, CCR BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC) NFPA70 2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, CCR BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC) 2022 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, CCR BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC) 2022 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC) 2022 CALIFORNIA ENERGY CODE PART 6, TITLE 24 C.C.R. 2022 NFPA 13 2016 NATIONAL FIRE PROTECTION ASSOCIATION, 101 LIFE SAFETY CODE NFPA 13R, 130 ADOPTED CFC (2022) NFPA 13 EDIT 2022 CALIFORNIA REFERENCED STANDARDS TITLE 24 C.C.R. 2022 CALIFORNIA GREEN BUILDING CODE STANDARDS PART 11, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC) PARTIAL LIST OF APPLICABLE NFPA STANDARDS NFPA 13- AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED) NFPA 70- NATIONAL ELECTRICAL CODE NFPA 72- NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) NFPA 90A- INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS NFPA 101- LIFE SAFETY CODE CODE ANALYSIS THE PROJECT IS A "B" OCCUPANCY PER CBC 304.1 (TRAINING AND SKILL DEVELOPMENT) OCCUPANCY TO BE POSTED (49 OCCUPANTS MAXIMUM) DEFERRED SUBMITTAL ITEM 1: FIRE SPRINKLER SYSTEM IS TO BE SUBMITTED TO THE FIRE DEPARTMENT AND IS UNDER SEPARATE REVIEW AND PERMIT CAL-GREEN ITEM 1: FIRE SPRINKLER SYSTEM IS TO BE SUBMITTED TO THE FIRE DEPARTMENT AND IS UNDER SEPARATE REVIEW AND PERMIT		

1. EXISTING PROPERTY LINE

2. EXISTING ACCESSIBLE CURB-CUT RAMP w/ DETECTABLE WARNING SURFACE

3. EXISTING CONCRETE SIDEWALK

4. EXISTING 6" CONCRETE CURB

5. EXISTING A.C. PAVING

6. EXISTING DISABLED PARKING STALL SIGNAGE

7. EXISTING GAS METER LOCATION

8. EXISTING PARKING LOT STRIPING

9. EXISTING ACCESSIBLE PARKING STALL

10. EXISTING LANDSCAPING AREA

11. INDICATES ACCESSIBLE PATH OF TRAVEL TO THE PUBLIC WAY. (4'-0" MIN. WIDTH)

12. FIRE DEPARTMENT TURNING RADIUS 20'-1" MIN. INSIDE RADIUS AND 44'-6" MAX. OUTSIDE RADIUS

13. EXISTING ELECTRICAL TRANSFORMER

14. EXISTING ELECTRICAL ROOM

15. EXISTING FIRE SPRINKLER RISER

16. LINE INDICATES VEHICLE OVERHANG

17. EXISTING TRASH ENCLOSURE

18. LOCATION OF FIRE SPRINKLER RISER ROOM

19. EXISTING BUS STOP

20. LINE OF BUILDING OVERHANG

21. EXISTING PUBLIC SIDEWALK

22. DISABLED PARKING STALL (MAX. 2% SLOPE AND CROSS SLOPE)

23. EXISTING CONCRETE APRON SLAB AT TRASH

24. EXISTING SIDEWALK TO BE 2% MAXIMUM CROSS SLOPE

25. VAN ACCESSIBLE STALL

26. CLEAN AIR VEHICLE STALL - IDENTIFY WITH THE FOLLOWING "CLEAN AIR / VAN POOL / EV" SEE DTL. EA/A0.1

27. EXISTING CURB RAMP WITH DETECTABLE WARNING SURFACE PER CBC 11B-247.1.2, LOCATED AT CUT THROUGH MEDIANS PER CBC 11B-705 - SEE DTL. EA/A0.1

28. ACCESSIBLE ROUTE TO TRASH ENCLOSURE - SEE DTL. E3/A6.2

29. EXISTING BIKE RACK FOR (2) BIKES - SEE DTL. E5/A0.1

30. LOCATION OF ON SITE FIRE HYDRANT

SYMBOL LEGEND

SYMBOL

DESCRIPTION

LINE OF ACCESSIBLE ROUTE OF TRAVEL

INDICATES EXIT TO EXTERIOR PATH OF TRAVEL

INDICATES SCOPE OF WORK

LINE OF ACCESSIBLE PATH OF TRAVEL TO EXISTING TRASH ENCLOSURE OR ADJACENT FUTURE BUILDING

KEY PLAN

SCOPE OF WORK

FIRE RISER NOTE:

FIRE SERVICE LINE WHERE PASSING UNDER THE BUILDING FOUNDATION OR SLAB SHALL NOT CONTAIN ANY MECHANICAL JOINTS
CFC 60, NFPA 24 - 10.4.3.1.1

OVERALL SITE PLAN

SCALE: 1"=20'-0"

Tenant Improvement for

Hanford Paradise

2461 E. Lacey Blvd., Suite. 109

Hanford, CA 93232

PROJECT

Project Architect Approval:

Consultant:

Project Name:

SHEET

COVER / SITE PLAN

PROJECT DEVELOPMENT

Date

Issued For

7-3-25

PLAN CHECK

8-1-25

BACK CHECK 1

DEFERRED SUBMITTAL

ITEM 1:
FIRE SPRINKLER SYSTEM IS TO BE SUBMITTED TO THE FIRE DEPARTMENT AND IS UNDER SEPARATE REVIEW AND PERMIT

REVISIONS

No.

Date

Description

8-1-25

BACK CHECK 1

CAL-GREEN

ITEM 1:
FIRE SPRINKLER SYSTEM IS TO BE SUBMITTED TO THE FIRE DEPARTMENT AND IS UNDER SEPARATE REVIEW AND PERMIT

JOB NO.

SHEET NO.

2503

DATE

7-3-25

PROJECT COORDINATOR

RON PRYCE

SCALE

OF

AS NOTED

A0.0

PRYCE
ARCHITECTS

1936 RICHERT
CLOVIS, CA 93611
559.917.5725
FAX: 559.439.0708

RONALD G. PRYCE, C14974

The firm of Pryce Architects expressly reserves to
commensurate copyright and other applicable property
rights in these plans. These plans are not to be
reproduced, changed, or copied in any form or manner
whatsoever, nor are they to be assigned to a third
party without first obtaining the express written consent
and permission of the Architect. In the event of Un-
authorized use of these plans by a third party, the
third party shall hold the Architect harmless, and shall
bear the cost of the Architect's legal fees associated
with defending and enforcing these rights. These plans
are and shall remain the exclusive property of Pryce
Architects.

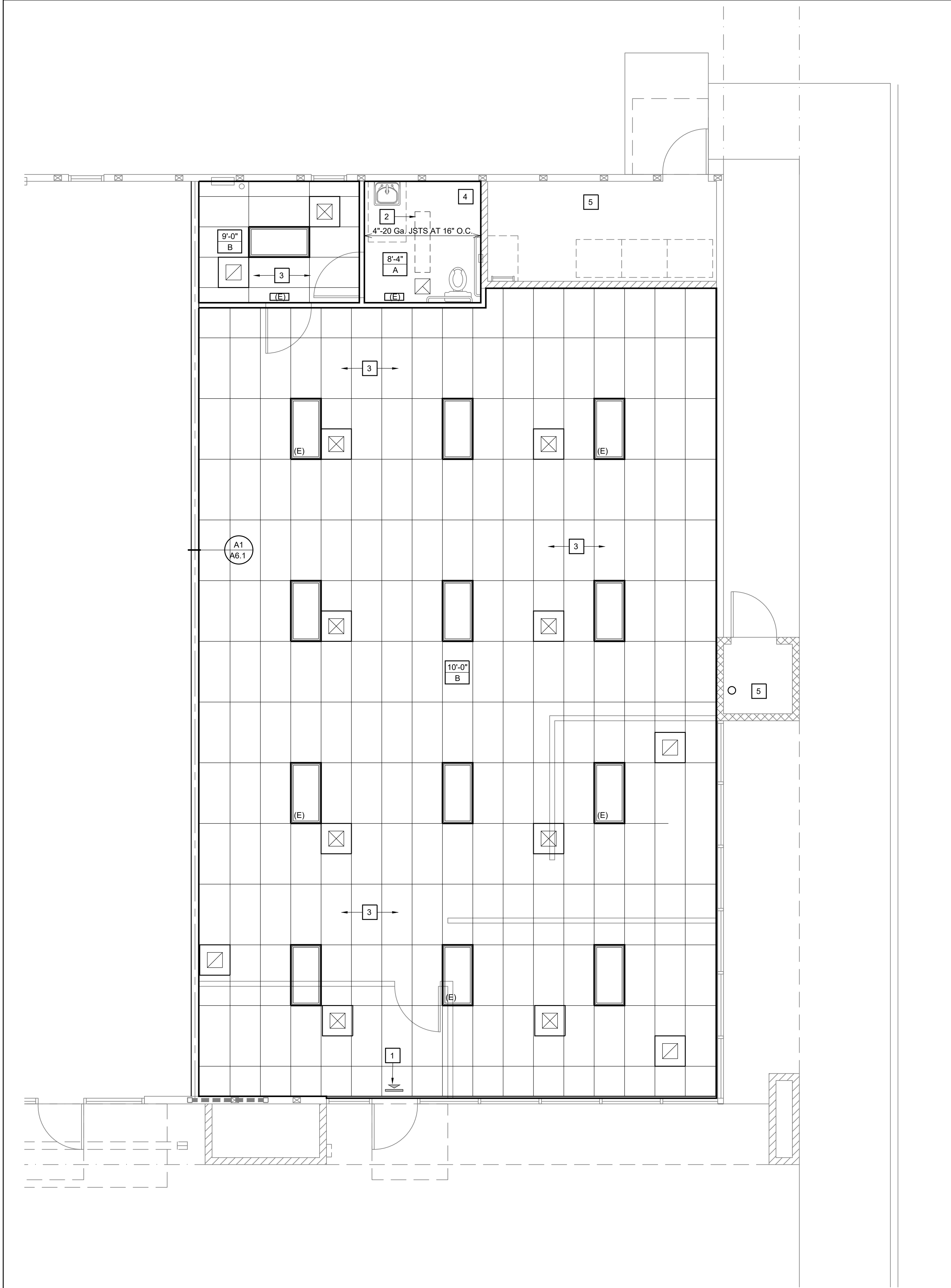
PROJECT

Project Architect Approval:

Consultant:

Project Name:

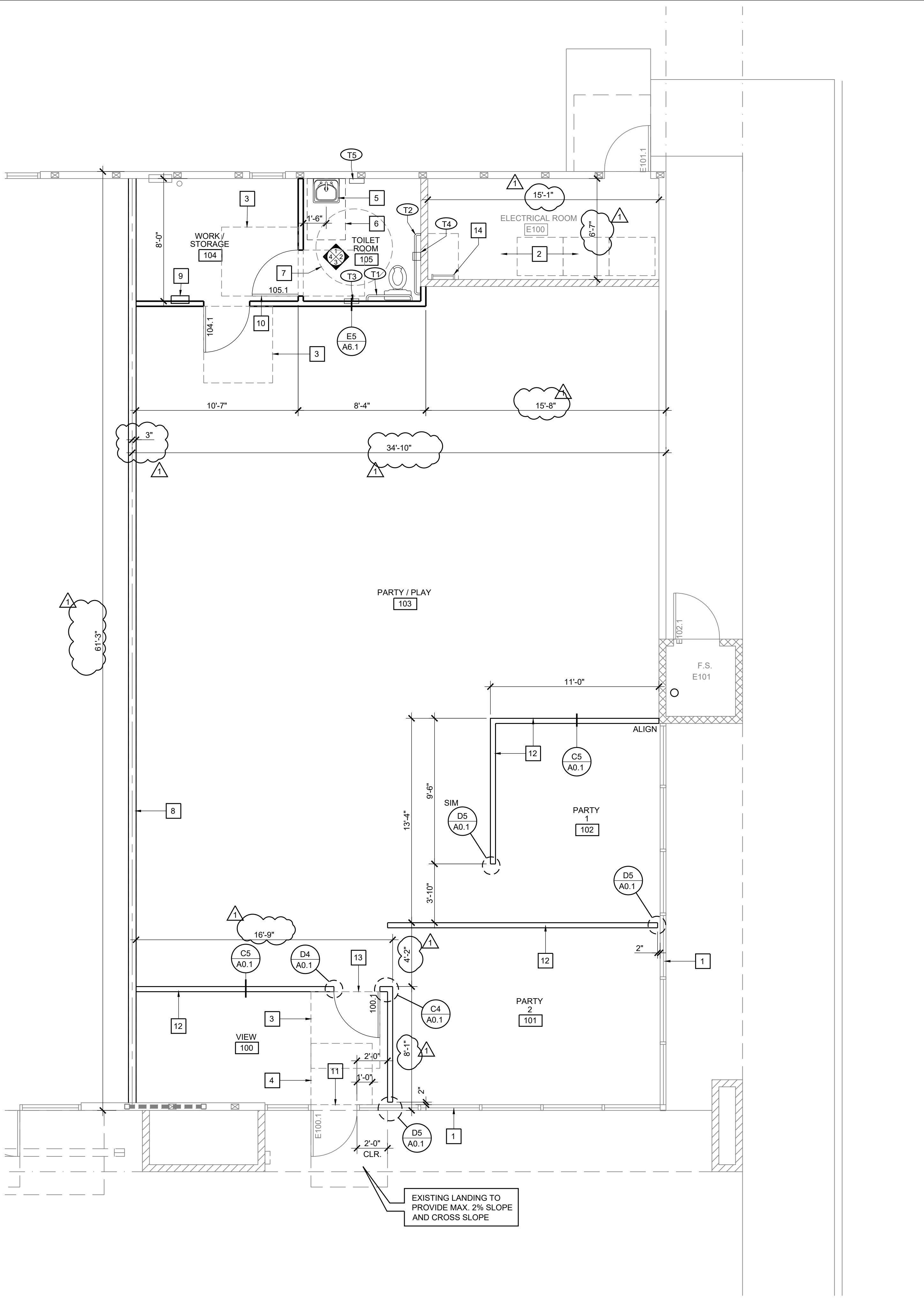
Page 47 of 819



PARTIAL REFLECTED CEILING PLAN

SCALE: 1/4"=1'-0"

KEYED NOTES		CEILING MATERIAL FINISHES:		SYMBOL LEGEND:	
NO.	DESCRIPTION	NO.	DESCRIPTION	SYMBOL	DESCRIPTION
1.	INDICATES EXIT LIGHTS - SEE ELECTRICAL. EXIT LIGHTS TO BE INTERNALLY ILLUMINATED PER CBC 1013.1 AND SHALL BE PLACED WITHIN THE EXIT SYSTEM NO MORE THAN 100 FT. OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS.	A.	5/8" GYP. BD. OVER JOIST FRAMING A3/A6.1 UNLESS REFERENCED OTHERWISE		2'-0" x 4'-0" ACOUSTICAL CEILING TILE - SEE DTL. E3/A6.1
2.	INDICATES SURFACE MOUNTED LIGHT FIXTURE	B.	2x4" NON-RATED SUSPENDED CEILING SYSTEM "ARMSTRONG" DUNE, 15/16 SQUARE LAY-IN #1773, WITH 15/16" PRELUDE XL GRID (WHITE), PROVIDE 9/16" WIDE #1873 SHADOW WALL ANGLE MOULDING. INSTALL PER DTL. E3/A6.1		2'-0" x 4'-0" RECESSED LIGHT FIXTURE - SEE ELECTRICAL
3.	ACOUSTICAL CEILING SYSTEM. SEE DTL. E3/A6.1				SURFACE MOUNTED LIGHT FIXTURE - SEE ELECTRICAL
4.	GYP. BD. CEILING - FOR TYPICAL FRAMING, SEE DTL. A3/A6.1				ILLUMINATED DIRECTIONAL EXIT SIGN WITH RESERVE POWER, SEE ELECT. DRAWINGS
5.	EXISTING (PART OF SHELL)				INDICATES FINISH CEILING HEIGHT
GENERAL NOTES					INDICATES FINISH MATERIAL - SEE CEILING MATERIAL FINISH SCHEDULE - THIS SHEET
NO.	DESCRIPTION				INDICATES MECHANICAL SUPPLY AIR REGISTER IN ACOUSTICAL CEILING
1.	FOR PARTIAL HEIGHT INTERIOR WALLS SEE DTL. E5/A6.1				INDICATES MECHANICAL RETURN AIR REGISTER IN ACOUSTICAL CEILING
2.	ALL EXTERIOR WALLS TO BE R-19 INSULATION (BATT)				INDICATES MECHANICAL EXHAUST REGISTER IN ACOUSTICAL CEILING
3.	ROOF / CEILING DECK OF OFFICE TO BE R-30 INSULATION / R-11 AT ALL CEILING				
4.	ALL INTERIOR WALLS TO BE R-11 SOUND BATT INSULATION				
5.	HANGING OF MECHANICAL DUCTWORK AND SPRINKLER PIPING PER DTL. E5/A6.1				



PARTIAL FLOOR PLAN

SCALE: 1/4"=1'-0"

ROOM SCHEDULE												FINISH SCHEDULE			
ROOM NO.	ROOM NAME	FLOORING	BASE	WALL				WAINSCOTT	CEILING		REMARKS	NO.	ITEM	MANUFACTURER	DESCRIPTION
				N	S	E	W		MATL.	FIN.					
100	VIEW	CT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	AC-1	--	5				
101	PARTY 2	CT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	AC-1	--	5				
102	PARTY 1	CT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	AC-1	--	5				
103	PARTY / PLAY	CT-1	RB-1	PT-2	PT-1	PT-1	PT-1	--	AC-1	--	--				
104	WORKS / STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	AC-1	--	1				
105	RESTROOM	SV-1	SV-1 (6")	PT-1	PT-1	PT-1	PT-1	FRP-1	GB-1	PT-1	2,3,4				
KEYED REMARKS															
NO.	DESCRIPTION														
1.	PROVIDE "SCHLUTER" AT VCT FLOORING TRANSITION TO CARPET TILE														
2.	PROVIDE 3/8" MIN. RADIUS AT SHEET VINYL TRANSITION FOR 6" COVED BASE UP WALL AT RESTROOM														
3.	PAINT TO BE SEMI-GLOSS AT RESTROOM														
4.	SUBMIT SIGN COLOR SAMPLE TO ARCHITECT FOR COORDINATION														
5.	WOOD CAP TRIM AT KNEE WALL TO BE PT-3														
GENERAL NOTES															
NO.	DESCRIPTION														
1.	DOOR FRAMES TO BE _____														
2.	SHEET VINYL FLOORING BY TENANT														
3.	CARPET AND BASE BY TENANT														
4.	VCT AND BASE BY TENANT														
5.	TAPE AND TEXTURE DEMISING WALL BY LANDLORD														
6.	PAINT TO BE EGGSHELL FINISH														
NO.	ITEM	MANUFACTURER	DESCRIPTION												
AC-1	ACOUSTICAL	ARMSTRONG	2x4 ACOUSTICAL TILE												
CT-1	CARPET TILE	INTERFACE	LIGHT PLAY, TRAVERTINE 50cm x 50cm, NON-DIRECTIONAL												
FRP-1	FIBERGLASS REIN. PANEL (+48")	MARLITE	S 490N LIGHT GRAY, SMOOTH TEXTURE												
GB-1	GYPSUM BOARD	--	TAPE AND TEXTURE - _____FINISH												
PL-1	PLASTIC LAMINATE	WILSONART	VERANDA TEAK 8209K-28												
PT-1	PAINT	SHERWIN WILLIAMS	AGREEABLE GRAY - SW7029												
PT-2	PAINT - ACCENT WALL	SHERWIN WILLIAMS	TBD												
PT-3	PAINT - ACCENT TRIM	SHERWIN WILLIAMS	PURE WHITE - SW7005												
RB-1	RUBBER BASE	ROPPE	4" RTS. LUNAR DUST 114												
SV-1	SHEET VINYL	AHF	CONCEPTS OF LANDSCAPE, IRONSIDE, 1HE2M404												
VCT-1	VINYL	ARMSTRONG	CROWN TEXTURE - PEWTER SC908												

FLOOR PLAN KEY NOTES

- EXISTING STOREFRONT SYSTEM TO REMAIN.
- INDICATES EXISTING ELECTRICAL PANEL, WITH 36" CLEAR ZONE - SEE ELECTRICAL
- INDICATES 60" DEEP CLEAR MANEUVERING CLEARANCE AT PULL SIDE OF DOOR - SEE DTL. E3/A6.0
- INDICATES 48" DEEP CLEAR MANEUVERING CLEARANCE AT PUSH SIDE OF DOOR - SEE DTL. E3/A6.0
- NEW LAV. - SEE PLUMBING - FOR ACCESSIBILITY SEE DTL. C5/A6.0
- INDICATES 30"X48" ACCESSIBLE FLOOR AREA AT FIXTURES
- 60" MIN. DIA. TURN AROUND CLEARANCE
- INDICATES EXISTING DEMISING WALL
- INDICATES RECESSED 2A-108-C FIRE EXTINGUISHER IN SEMI-RECESSED CABINET, (COORDINATE LOCATION W. FIRE DEPARTMENT)
- RESTROOM TACTILE AND RESTROOM SIGNAGE ON DOOR AND WALL (UNI-SEX) SEE DTL.S. B2, E1/A6.0
- EXISTING SIGN ABOVE DOOR STATING "THIS DOOR TO REMAIN OPEN DURING BUSINESS HOUR" 1" HIGH LETTERING ON CONTRASTING BACKGROUND
- INDICATES LOW WALL (+3'-4") WITH GYP. BD. AND A WOOD CAP TRIM
- GATE WITH LATCHSET - SEE DOOR SCHEDULE
- EXISTING ROOF ACCESS LADDER (EXISTING SHELL)

WALL LEGEND

SYMBOL	DESCRIPTION
	NEW 4" x 20 Ga. METAL STUD WALL AT 16" O.C. - PARTIAL HEIGHT - BRACE TO STRUCTURE PER DTL. E5/A6.1
	EXISTING 2x6 WOOD STUD WALL AT 16" O.C. (EXTERIOR)
	EXISTING 2x6 WOOD STUD SHEAR WALL
	EXISTING 2x6 WOOD STUD 1 HOUR WALL AT 16" O.C. (FULL HEIGHT)

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	INDICATES DOOR - SEE DOOR SCHEDULE, SHEET A0.1
	(E) INDICATES EXISTING DOOR (WHERE OCCURS)
	INDICATES ROOM NUMBER - SEE SCHEDULE - THIS SHEET
	INDICATES KEYNOTE - SEE KEYNOTED SCHEDULE THIS SHEET
	INDICATES RESTROOM ACCESSORY - SEE SCHEDULE A0.1
	INDICATES INTERIOR ELEVATION - SEE DTL. B4/A0.1

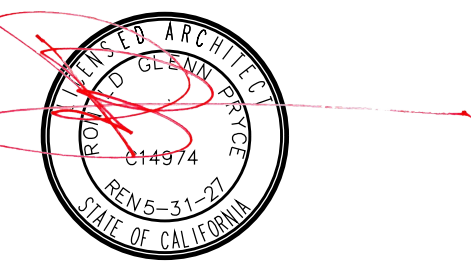
GENERAL FLOOR PLAN NOTES

- FOR TYPICAL WALL FRAMING, SEE DTL. E5/A6.1
- FOR SAW CUT SLAB INFILL, SEE DTL. E4/A0.1
- PROVIDE WATER HEATER EFFICIENCY ON DESIGN PLANS
- PER CBC 415.2, WATER STATIONS WILL BE PROVIDED IN PLACE OF DRINKING FOUNTAINS, SEE PLUMBING PLANS.
- FOR RESTROOM DOOR SIGNAGE, SEE DTL.S. B2, E1/A6.0
- FOR EXIT/ EXIT ROUTE SIGN, SEE DTL. C2/A6.0
- FOR STANDARD ACCESSORY MOUNTING HEIGHTS, SEE DTL. E5/A6.0
- FOR SINGLE ACCOMMODATION RESTROOM CLEARANCES, SEE DTL. C5/A6.0
- ALL BUILDING INSULATION AT EXTERIOR WALLS AND CEILING TO MEET CODE (BY LANDLORD)
- AIR CONDITIONING, DUCT WORK, SUPPLY / RETURN, BY LANDLORD
- RESTROOM COLD WATER, LAVATORY, WATER CLOSET AND ACCESSIBLE ACCESSORIES BY LANDLORD
- RESTROOM CEILING FRAMING, GYP. BD. BY LANDLORD
- ALL PAINTING BY TENANT

RESTROOM ANALYSIS

CBC TABLE 422.2, EXCEPTION 3:
IN BUSINESSES WITH A TOTAL OCCUPANT LOAD OF 50 OR LESS (1) TOILET PER FACILITY FOR USE BEY ONE PERSON AT A TIME SHALL BE PERMITTED FOR BOTH SEXES.

ITEM	REQUIRED FIXTURES	PROVIDED
W.C. LAVATORIES	1	1



PROJECT

Project Architect Approval:

Consultant:

Project Name:

Tenant improvement for

Hanford Paradise
2461 E. Lacy Blvd., Suite. 109
Hanford, CA 93232

SHEET
**FLOOR PLAN /
REFLECTED CELING
SCHEDULES**

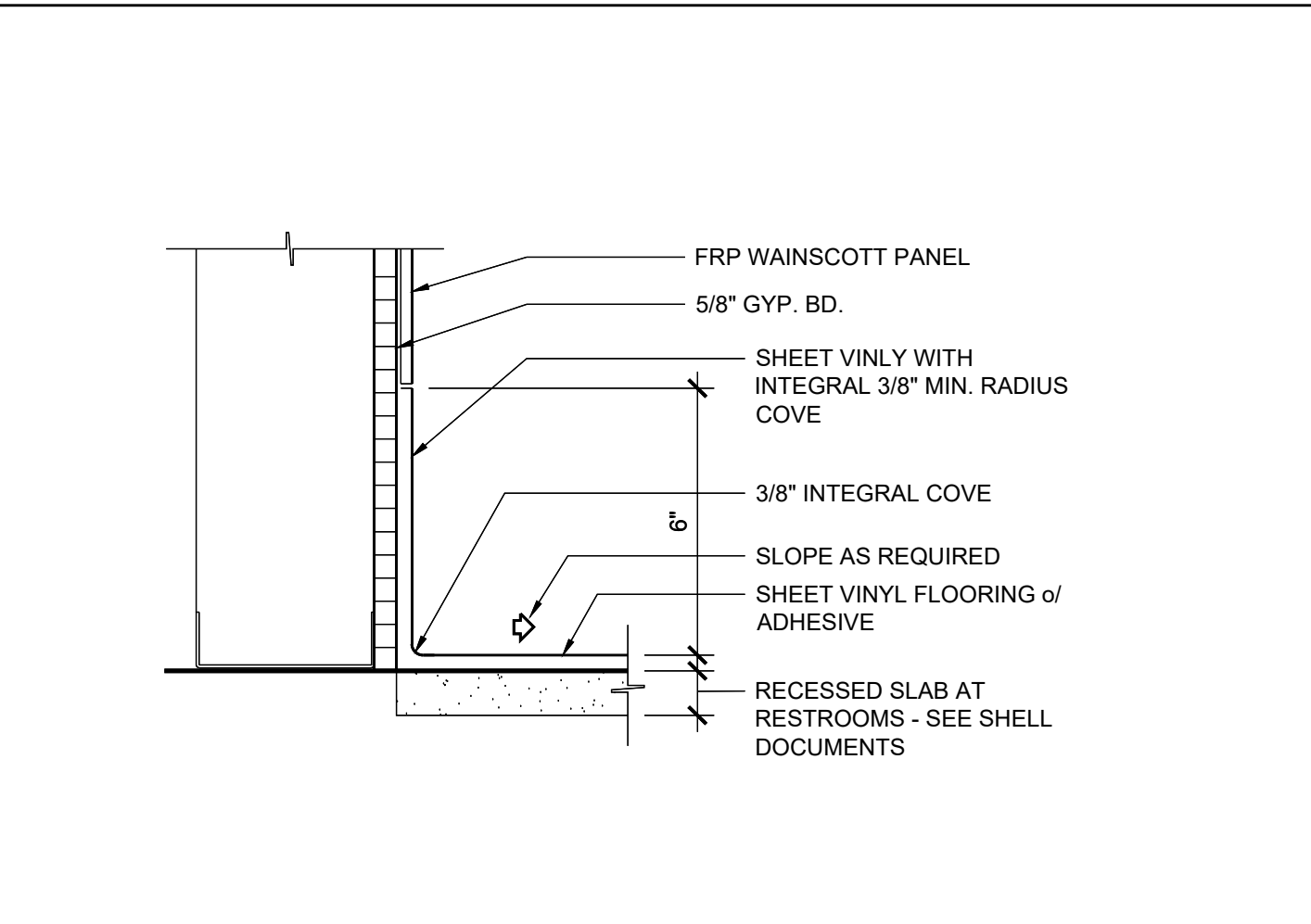
PROJECT DEVELOPMENT

Date	Issued For
7-3-25	PLAN CHECK
8-1-25	BACK CHECK 1

REVISIONS

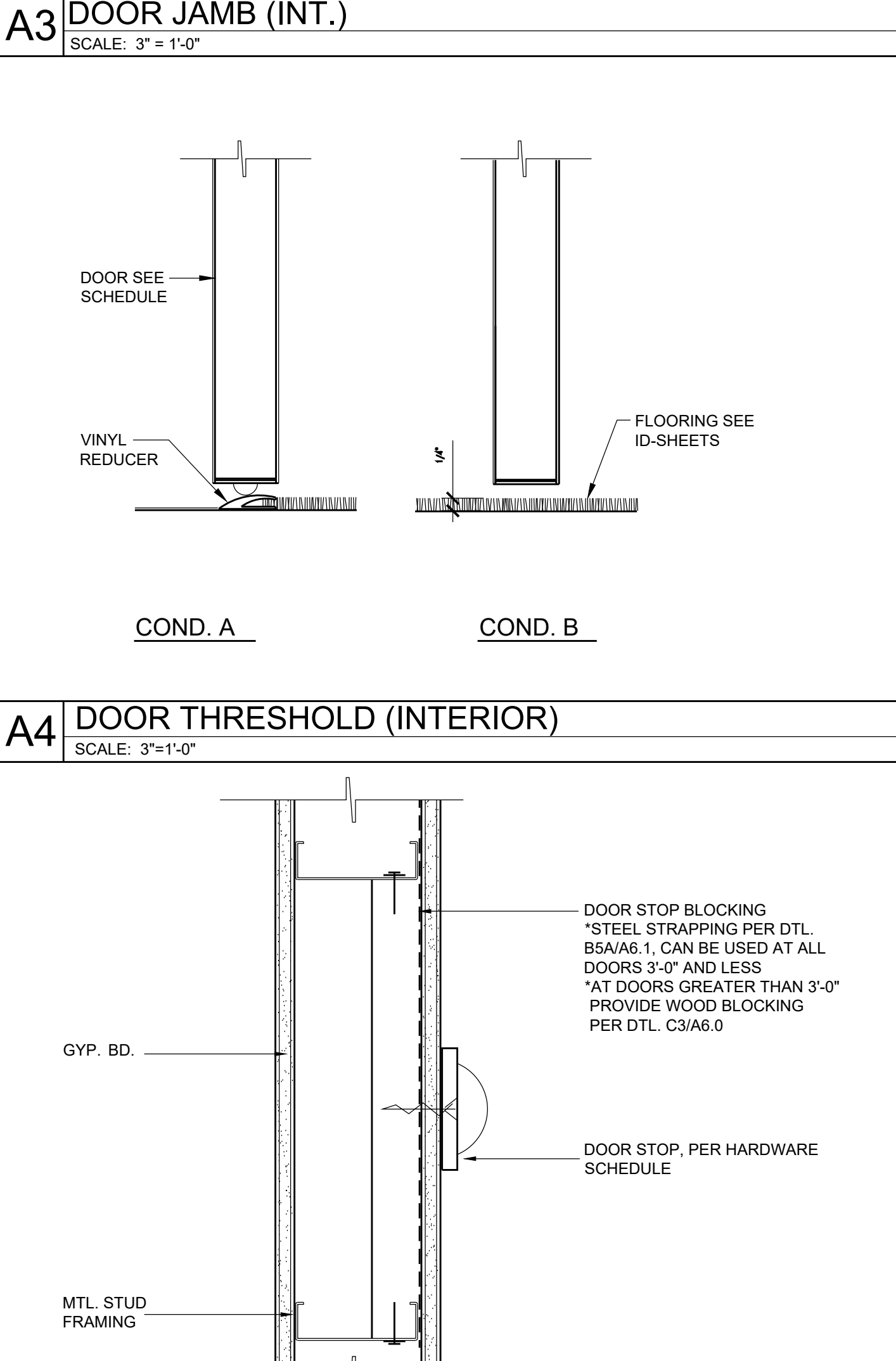
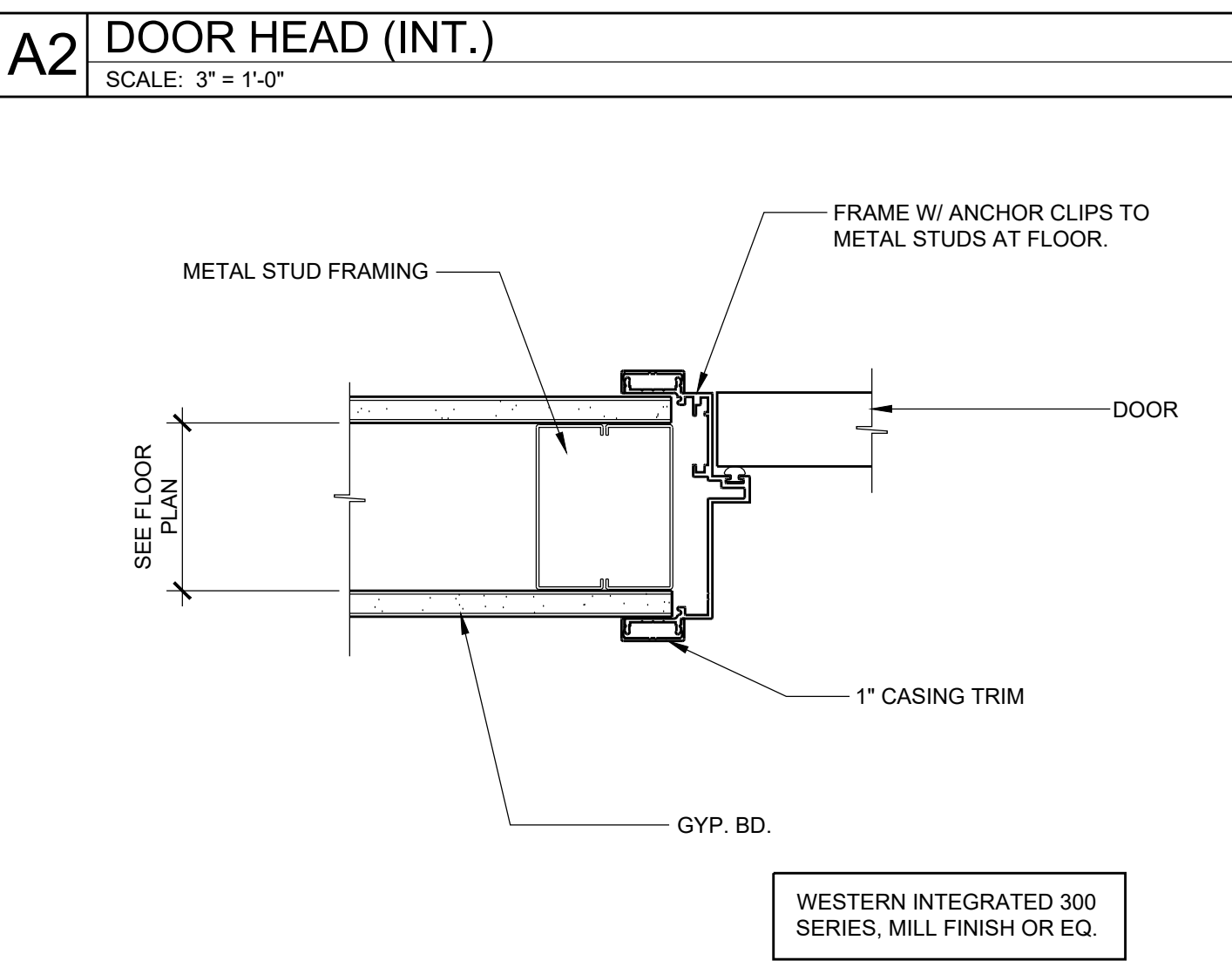
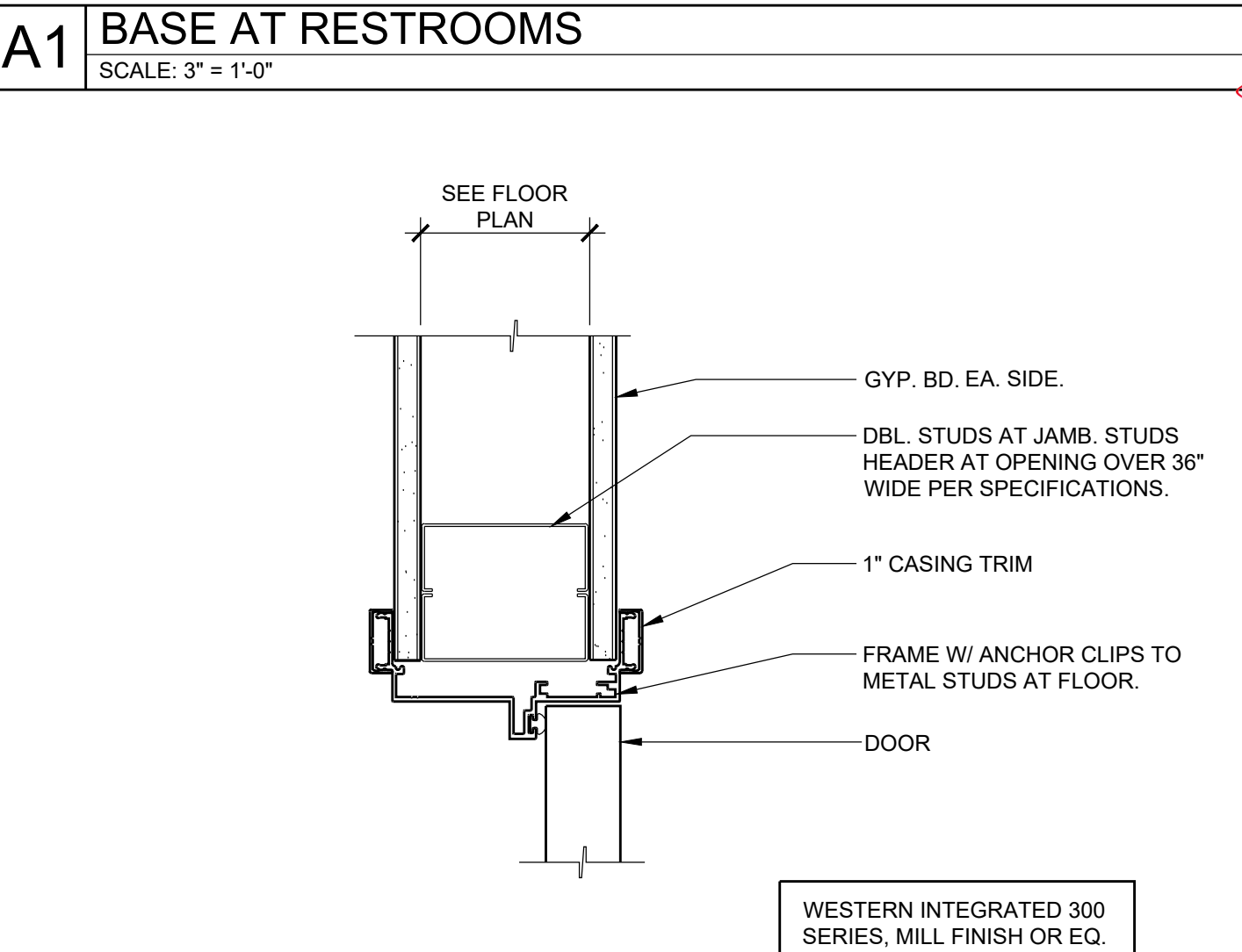
No.	Date	Description
1	8-1-25	BACK CHECK 1

JOB NO.	2503	SHEET NO.
DATE	7-3-25	
PROJECT COORDINATOR	RON PRYCE	
SCALE	AS NOTED	OF



Project Name:

JOB NO. _____ SHEET NO. _____
 2503 _____
 DATE _____
 7-3-25 _____
 PROJECT COORDINATOR _____
 RON PRYCE _____
 SCALE _____ OF _____
 AS NOTED _____



A5	DOOR STOP
	SCALE: 1 1/2"=1'-0"

GENERAL NOTES

1. SIMILAR REQUIREMENTS, AS STATED IN THESE GENERAL NOTES AND HVAC NOTES, MAY ALSO APPEAR IN THE GENERAL CONDITIONS AND SPECIFICATIONS. SUCH SIMILAR AND CORRESPONDING NOTES IN THE GENERAL CONDITIONS AND SPECIFICATIONS TAKE PRECEDENCE OVER THESE GENERAL NOTES AND HVAC NOTES. WHEN THESE GENERAL NOTES AND HVAC NOTES ARE MORE STRINGENT, THEN THEY SHALL PREVAIL.
2. SCOPE: THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION, SCAFFOLDING, AND SERVICES NECESSARY FOR COMPLETION OF THE CODES AND REGULATIONS; ALL MATERIALS AND WORK SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF THE CALIFORNIA MECHANICAL CODE, CALIFORNIA BUILDING CODE, CALIFORNIA PLUMBING CODE, AND NATIONAL ELECTRIC CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING CALIFORNIA CCR TITLE 24 ENERGY CONSERVATION STANDARDS. ALL MATERIALS AND WORK SHALL MEET THE APPROVAL OF THE LOCAL JURISDICTION AND THE FIRE MARSHAL, WHERE THE DRAWINGS AND SPECIFICATIONS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE DRAWINGS AND SPECIFICATIONS SHALL GOVERN, BUT NOTHING IN THE DRAWINGS AND SPECIFICATIONS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
3. PERMITS, LICENSEES, AND FEES: THE CONTRACTOR SHALL PAY FOR ALL PERMITS.
4. SYMBOLS AND ABBREVIATIONS: IF THE CONTRACTOR IS UNSURE OF ANY SYMBOLS OR ABBREVIATIONS ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
5. NATURE OF THE DRAWINGS: FOR THE PURPOSE OF CLARITY AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. ALTHOUGH SIZES AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS, AND VERIFY THIS INFORMATION BEFORE ORDERING, FABRICATING, OR INSTALLING OF ANY MATERIALS.
6. FIELD VERIFICATION: ALL EXISTING STRUCTURES, EQUIPMENT, DUCTWORK, PIPING, AND CONDUIT ARE NOT SHOWN IN THESE DRAWINGS. BEFORE BIDDING AND BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL THOROUGHLY EXAMINE AND VERIFY ALL EXISTING CONDITIONS, POINTS OF CONNECTION, SIZES, LOCATION, INTERFERENCES, ETC. ALL NECESSARY ADJUSTMENTS REQUIRED TO FACILITATE THE NEW INSTALLATION SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. DISCREPANCIES: THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, IN WRITING, ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS, AND ANY CONFLICTS WITHIN THE CONTRACT DOCUMENTS. THIS SHALL BE DONE PRIOR TO THE START OF CONSTRUCTION IN EACH AREA SO ANY NECESSARY CLARIFICATIONS CAN BE ISSUED.
8. SUBMITTALS: THE CONTRACTOR SHALL MAKE SUBMITTALS ON EQUIPMENT AND OTHER ITEMS REQUIRING SUBMITTALS, AND SHALL RECEIVE APPROVALS ON THE SUBMITTALS, PRIOR TO PURCHASE OR INSTALLATION.
9. COORDINATION: PRIOR TO FABRICATION AND INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS OR HER WORK WITH ALL OTHER TRADES AND THE GENERAL CONTRACTOR. THIS INCLUDES COORDINATING THE LOCATION AND SIZE OF ALL OPENINGS, LOCATIONS OF EQUIPMENT PADS AND CHANGES OF ELEVATIONS OF DUCTWORK, PIPING AND OTHER EQUIPMENT. IT INCLUDES COORDINATING WITH THE ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS.
10. WORK SCHEDULING AND INTERRUPTIONS: THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE OWNER BEFORE BEGINNING WORK IN ANY EXISTING AREA, OR BEFORE WORKING ON ANY EXISTING EQUIPMENT. THE CONTRACTOR SHALL INDICATE TO THE OWNER, THE PARTICULAR AREA IN WHICH WORK WILL BE DONE AND THE PARTICULAR EQUIPMENT TO BE WORKED ON ALONG WITH THE DURATION OF TIME ANY SYSTEM WILL BE OUT OF SERVICE. SUCH WORK WILL BE SCHEDULED IN SUCH A MANNER SO AS NOT TO DISRUPT PRESENT OPERATIONS, IF POSSIBLE. FOR INTERRUPTION OF PRESENT OPERATIONS, THE CONTRACTOR SHALL OBTAIN A LETTER OF APPROVAL FROM THE OWNER, CITING AREAS, DATES, HOURS OF THE DAY, AND DURATION INTERRUPTION IS TO TAKE PLACE.
11. CONSTRUCTION BARRIERS AND PASSAGES: THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. TEMPORARY PASSAGES SHALL BE PROVIDED AS REQUIRED.
12. DEMOLITION: THE CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING CONSTRUCTION AS NECESSARY TO INSTALL NEW CONSTRUCTION AS SHOWN.
13. SALVAGE: THE OWNER RESERVES THE RIGHT TO SALVAGE ANY EQUIPMENT AND/OR MATERIALS AFTER REMOVAL BY THE CONTRACTOR. ALL REMAINING ITEMS REMOVED BY THE CONTRACTOR SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR.
14. PROTECTION, REPAIR, AND RESTORATION OF EXISTING: THE CONTRACTOR SHALL PROTECT AND REPAIR ADJACENT EXISTING SURFACES, AREAS, PIPING, AND EQUIPMENT WHICH MAY BE DAMAGED AS A RESULT OF DEMOLITION AND/OR NEW WORK. CONTRACTOR SHALL NOT DEMOLISH OR ALTER ANY WORK WHICH IS NOT PART OF THIS CONTRACT WITHOUT WRITTEN PERMISSION OF THE OWNER.
15. PROTECTION AND REPAIR OF NEW WORK: THE CONTRACTOR TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS BEFORE, DURING AND AFTER INSTALLATION. IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.
16. MATERIALS: ALL MATERIAL, EQUIPMENT, FIXTURES, ETC. SHALL BE NEW, UNLESS OTHERWISE NOTED, AND OF THE BEST GRADE OF THE RESPECTIVE KIND, FREE FROM ALL DEFECTS. ANY MATERIAL, ARTICLE OR PIECE OF EQUIPMENT OTHER THAN THAT INDICATED SHALL NOT BE USED UNLESS APPROVED IN WRITING BY THE ENGINEER, AND ANY CHANGES IN MECHANICAL, ELECTRICAL AND/OR OTHER SYSTEMS REQUIRED DUE TO SUCH SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND AT NO ADDITIONAL COST TO THE OWNER.
17. MATERIALS UNIFORMITY: MATERIALS FOR SIMILAR USE SHALL BE OF THE SAME TYPE AND MANUFACTURER, UNLESS OTHERWISE SPECIFIED.
18. SEALING OF OPENINGS: ALL FLOOR, WALL, AND CEILING OPENINGS REQUIRED FOR PIPES, DUCTS, CONDUITS, AND SIMILAR ITEMS SHALL BE SEALED; UNLESS OTHERWISE PROTECTED WITH A TWO-HOUR FIRE RESISTIVE ENCLOSURE (ONE-HOUR FOR ONE-HOUR BUILDINGS).
19. STRUCTURAL MEMBERS: UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.
20. WIRING: RESPONSIBILITY DISTINCTION: THE GENERAL CONTRACTOR SHALL SUPERVISE THE FOLLOWING WIRING RESPONSIBILITY DISTINCTION. CONTROL LOW VOLTAGE WIRING AND CONNECTION SHALL BE BY MECHANICAL CONTRACTOR. LINE VOLTAGE WIRING, CONDUIT, DISCONNECT SWITCHES, AND CONNECTION SHALL BE BY ELECTRICAL CONTRACTOR.
21. PLUMBING DISTINCTION: CONDENSATE DRAIN PIPING AND FINAL CONNECTION TO EQUIPMENT UNITS SHALL BE BY PLUMBING CONTRACTOR.
22. GENERAL CONTRACTOR DISTINCTION: REDWOOD SLEEPERS OR PLATFORMS FOR ROOF MOUNTED EQUIPMENT UNITS, DUCT PENETRATIONS AND CUTTING AND PATCHING SHALL BE BY GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED ON PLAN.
23. MANUFACTURER'S INSTALLATION RECOMMENDATIONS: ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, OFFSETS, TRANSITIONS, DAMPERS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
24. AIR BALANCING: THE CONTRACTOR SHALL CONDUCT AN AIR BALANCE OF THE HVAC SYSTEMS TO ACHIEVE THE AIR FLOWS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL SUBMIT A COMPLETE AIR BALANCE REPORT FOR APPROVAL. THE AIR BALANCE REPORT SHALL CONFORM TO AABC STANDARDS AND SPECIFICATIONS. THE REPORT SHALL INCLUDE THE FOLLOWING:
- A) AIR QUANTITIES AT EACH REGISTER.
- B) STATIC PRESSURE READINGS AT INLET AND DISCHARGE OF EACH AIR HANDLING SYSTEM AND AT INLET OF EACH EXHAUST AIR SYSTEM.
- C) COOLING AND HEATING SUPPLY AND RETURN AIR TEMPERATURES AT EACH AIR CONDITIONING UNIT.
25. TESTING AND OPERATION: THE CONTRACTOR SHALL TEST, ADJUST, AND PLACE IN PROPER OPERATING CONDITION ALL SYSTEMS INSTALLED UNDER THE WORK OF THIS CONTRACT.
26. OPERATION AND MAINTENANCE MANUALS: THE CONTRACTOR SHALL SUBMIT FOUR SETS OF OPERATING AND MAINTENANCE MANUALS TO THE OWNER UPON COMPLETION OF THE PROJECT.
27. AS-BUILT DRAWINGS: THE CONTRACTOR SHALL MAINTAIN ACCURATE AS-BUILT DRAWINGS DURING CONSTRUCTION AND SHALL SUBMIT THEM FOR APPROVAL UPON COMPLETION OF INSTALLATION.
28. WARRANTY: IN ADDITION TO EQUIPMENT WARRANTIES, THE CONTRACTOR SHALL FURNISH A WRITTEN WARRANTY AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE YEAR AFTER OWNER'S ACCEPTANCE OF THE PROJECT. THE WARRANTY SHALL INCLUDE LABOR AND MATERIALS FOR REPAIR OF DAMAGE TO, OR REPLACEMENT OF, ANY PART OF DEFECTIVE OR DAMAGED EQUIPMENT OR ITEM.
29. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2016 CBC SECTION 1632A AND TABLE 16A-0. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.

DUCT CONSTRUCTION

A.MINIMUM DUCTWORK GAGES, JOINTS, REINFORCING, AND BRACING SHALL CONFORM TO THE FOLLOWING TABLES. HOODS, PLENUMS, AND CASTINGS SHALL NOT BE LIGHTER THAN THE DUCT GAGE LISTED IN TABLE 2 FOR CORRESPONDING DIMENSIONS. ADDITIONAL BRACING SHALL BE PROVIDED TO PREVENT OBJECTIONABLE PANEL VIBRATION.

B.PROVIDE LONGITUDINAL SEAMS OF THE GROOVED SNAP LOCK AND STANDING, SEALED AND TAPED, OR SEALED SPIRAL OR CONTINUOUSLY WELDED. FOR EXHAUST DUCT, TAPING MAY BE OMITTED.

TABLE 1 – SHEET METAL THICKNESS FOR CIRCULAR DUCTS AND FLAT-OVAL (FOR STATIC PRESSURES LISTED)

GAGE THICKNESS	DIAMETER OF DUCT	HORIZONTAL GIRTH
2" WATER COLUMN		
MAXIMUM S.P.	MAXIMUM DIAMETER SUPPORT	MAXIMUM JOINTS
BOUND / OVAL		DISTANCE
26 / 24	UP TO 9"	10' 2" SLIP
26 / 24	9" – 14"	8' 4"
24 / 22	14" – 23"	8' 4"

C.CONSTRUCTION DETAILS FOR RECTANGULAR SHEET METAL DUCTS FOR LOW-PRESSURE SYSTEMS – VELOCITIES NOT EXCEEDING 2,000 FEET PER MINUTE:

1. FOR PRESSURES IN EXCESS OF 2 INCHES WATER COLUMN, DUCT WALL THICKNESS SHALL BE 2 GAGES HEAVIER THAN SET FORTH IN THIS TABLE.
2. DUCT SPECIFICATIONS SHOWN BELOW ARE APPLICABLE WHEN DUCTS LARGER THAN 18 INCHES ARE CROSS-BROKEN. WHERE CROSS BREAKING IS NOT PROVIDED, DUCT WALL THICKNESS SHALL BE 2 GAGES HEAVIER ON DUCTS 19 INCHES TO 60 INCHES WIDE UNLESS LONGITUDINAL STANDING SEAMS ARE FURNISHED.

TABLE 2 – MINIMUM METAL GAGES

MINIMUM GAGE THICKNESS	MAX. SIDE, GROSS	DUCT PERMISSIBLE GIRTH JOINTS & LONGITUDINAL SEAMS	HORIZONTAL SUPPORT MAXIMUM DISTANCE
STEEL / ALUMINUM	DIMENSIONS		
26 / 24	UP TO 12"	DRIVE-SLIP, PLAIN S-SLIP, OR 1" POCKET LOCK	10'
24 / 22	13" – 18"	DRIVE-SLIP, PLAIN S-SLIP, 1" POCKET LOCK	10'
MINIMUM GAGE THICKNESS	MAX. SIDE, GROSS	DUCT PERMISSIBLE GIRTH JOINTS & LONGITUDINAL SEAMS	HORIZONTAL SUPPORT MAXIMUM DISTANCE
STEEL / ALUMINUM	DIMENSIONS		
24 / 22	19" – 30"	HEMMED S-SLIP, 1" BAR SLIP, OR 1" POCKET LOCK ON 5' CENTERS.	10'
		HEMMED S-SLIP, 1" SLIP, OR 1" POCKET LOCK ON 5' CENTERS WITH 1" X 1" X 1/8" ANGLES ON CENTER LINE BETWEEN.	
		HEMMED S-SLIP, 1" BAR SLIP, OR 1" POCKET LOCK ON 10' CENTERS WITH CROSS BREAK 1" STANDING SEAM ON 5' CENTERS.	

* BUTTON PUNCH SNAP-LOCK SEAMS, LOCKFORMER, OR EQUAL, SHALL ONLY BE PERMITTED ON 20 AND 22 GAGE GALVANIZED STEEL DUCTS. FOR ALUMINUM DUCT, BUTTON PUNCH SNAP-LOCK IS NOT PERMITTED.

D. FERROUS ANGLES AND STRUCTURAL MEMBERS AND JOINING COLLARS SPECIFIED FOR THE CONSTRUCTION AND SUPPORT OF DUCTWORK AND PLENUMS SHALL BE PRIMED WITH ONE HEAVY COAT OF ASPHALT ALUMINUM PAINT BEFORE INSTALLATION OR FABRICATION. THE METAL SURFACE SHALL BE THOROUGHLY CLEANED BEFORE APPLICATION OF THE PAINT. GALVANIZING MAY BE PROVIDED INSTEAD OF PAINTING. INSTALLED DUCT HANGER RODS CONCEALED IN FURRED CEILINGS AND WALLS IS NOT REQUIRED TO BE PRIMED OR PAINTED.

E. BROKEN PLACES IN GALVANIZED COATING SHALL BE ACID WASHED AND THEN COMPLETELY SOLDERED OVER OR PAINTED WITH GALVANIZING PAINT, DEVCON Z OR ZRC COLD GALVANIZING COMPOUND.

F. S-TYPE OR DRIVE-SLIP TYPE GIRTHS OR LONGITUDINAL SEAMS SHALL NOT BE FURNISHED FOR DUCTWORK INSTALLED OUTDOORS OR MOUNTED ON ROOFS. PROVIDE ANGLE-REINFORCED GOVERNMENT LOCK ONLY.

G. BROKEN PLACES IN GALVANIZED COATING SHALL BE ACID WASHED AND THEN COMPLETELY SOLDERED OVER OR PAINTED WITH GALVANIZING PAINT, DEVCON Z OR ZRC COLD GALVANIZING COMPOUND.

HVAC NOTES

1. ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH ENERGY EFFICIENCY STANDARDS PER TITLE 24.
2. CONTRACTOR SHALL INSTALL PER PLAN. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY THE EXACT CEILING SPACE AND INTERCHANGE THE DUCT SIZE TO FIT THE CEILING SPACE WITHOUT ADDITIONAL COST TO THE DISTRICT.
3. EXHAUST TERMINATION SHALL BE MINIMUM 10'-0" AWAY FROM, OR 3'-0" ABOVE, ANY OUTSIDE AIR INTAKE, OPERABLE WINDOWS AND DOORS. THEY SHALL ALSO BE 10'-0" MINIMUM ABOVE GRADE.
4. ALL PIPES AND DUCTS SHALL BE SUPPORTED AND BRACED PER "SMACNA" GUIDELINES.

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

PART 1	2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2	2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)
PART 3	2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R. (2021 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)
PART 4	2022 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 5	2022 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 6	2022 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.
PART 7	CURRENTLY VACANT
PART 8	2022 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.
PART 9	2022 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2019 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
PART 10	2022 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2013 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
PART 11	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 CCR.
PART 12	2022 CALIFORNIA REFERENCED STANDARDS, TITLE 24 C.C.R.

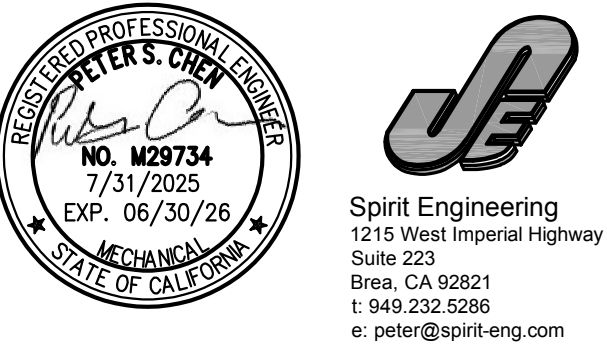
SYMBOLS AND ABBREVIATIONS			SYMBOLS AND ABBREVIATIONS		
SA		SUPPLY AIR PLENUM CROSS-UP DIRECTION	EDB		ENTERING DRY BULB
RA		RETURN AIR PLENUM CROSS-DOWN DIRECTION	EER		ENERGY EFFICIENCY RATIO
SA		SUPPLY AIR PLENUM CROSS-UP DIRECTION	ESP		EXTERNAL STATIC PRESSURE
RA		RETURN AIR PLENUM CROSS-DOWN DIRECTION	EWB		ENTERING WET BULB
CD		CEILING DIFFUSER, 2 – WAY	EXIST		EXISTING
CD		CEILING DIFFUSER, 4 – WAY	FLA		FULL LOAD AMPERES
CD		CEILING DIFFUSER, ROUND	HP		HORSEPOWER, HEAT PUMP
CD		CEILING DIFFUSER, ROUND	HZ		HERTZ
SWS		SIDEWALL SUPPLY REGISTER	KW		KILOWATT
RR		RETURN REGISTER	LAT		LEAVING AIR TEMPERATURE
ER		EXHAUST REGISTER	LAV		LAVATORY
SWS		SIDE WALL SUPPLY REGISTER	LDB		LEAVING DRY BULB
SWR		SIDE WALL RETURN GRILLE	LWB		LEAVING WET BULB
CD		CONDENSATE DRAIN	MBH		THOUSAND BRITISH THERMAL UNITS PER HOUR
RL		REFRIGERANT LIQUID LINE	MFR		MANUFACTURER
RS		REFRIGERANT SUCTION LINE	MCA		MAXIMUM CURRENT AMPACITY
BDO		BACKDRAFT DAMPER	MFS		MAXIMUM FUSE SIZE
MVD		MANUAL VOLUME DAMPER	MOCP		MAXIMUM OVERCURRENT PROTECTION
POC		POINT OF CONNECTION	NFPA		NATIONAL FIRE PROTECTION ASSOCIATION
POD		POINT OF DISCONNECTION	(N)		NEW
SD		SMOKE DETECTOR	OSD		OPPOSED BLADE DAMPER
AD		ACCESS DOOR	OSA		OUTSIDE SUPPLY AIR
AFF		ABOVE FINISHED FLOOR	QTY		QUANTITY
ASHRAE		AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	RLA		RATED LOAD AMPERES
BFF		BELOW FINISHED FLOOR	RA		RETURN AIR
BTUH		BRITISH THERMAL UNITS PER HOUR	RTU		ROOFTOP UNIT
CFM		CUBIC FEET PER MINUTE	SA		SUPPLY AIR
COP		COEFFICIENT OF PERFORMANCE	SEER		SEASONAL ENERGY EFFICIENCY RATIO
DB		DRY BULB	SMACNA		SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
DX		DIRECT EXPANSION	SP		STATIC PRESSURE
EA		EXHAUST AIR	TA		TRANSFER AIR
EAT		ENTERING AIR TEMPERATURE	TC		TRANSFER GRILLE
(E)		EXISTING	TYP		TYPICAL

The firm of Pryce Architects expressly reserves its copyright and other applicable property rights in these plans. These plans are not to be reproduced, changed, or copied in any form or manner whatsoever, nor are they to be assigned to a third party without first obtaining the express written consent and permission of the Architect. In the event of an authorized reuse of these plans by a third party, the third party shall hold the Architect harmless, and shall bear the cost of the Architect's legal fees associated with defending and enforcing these rights. These plans are and shall remain the exclusive property of Pryce Architects.

PROJECT

Project Architect Approval:

Consultant:



Project Name:

Tenant Improvement for

Hanford Marketplace

Shops 3

2461 E. Lacy Blvd., Suite.

Hanford, CA 93232

SHEET

MECHANICAL NOTES, AND ABBREVIATIONS

PROJECT DEVELOPMENT

Date	Issued For
-	PLAN CHECK

REVISIONS

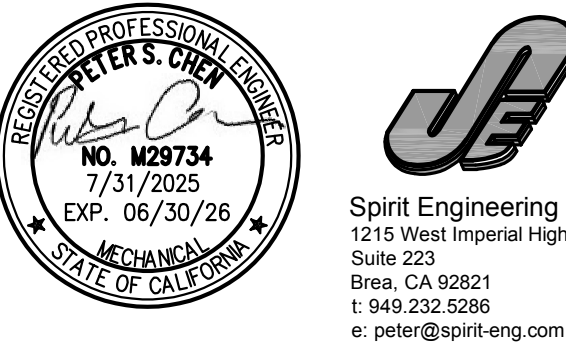
No.	Date	Description
Δ	07/31/25	PLAN CHECK CORRECTIONS.

JOB NO.	SHEET NO.
25.076	
DATE	
07/31/2025	
PROJECT COORDINATOR	
RON PRYCE	
SCALE	OF
AS NOTED	

PROJECT

Project Architect Approval:

Consultant:



Project Name:

Tenant improvement for

Hanford Marketplace
Shops 3
2461 E. Lacy Blvd., Suite.
Hanford, CA 93232

SHEET

TITLE 24
CALCULATION

PROJECT DEVELOPMENT

Date	Issued For
-	PLAN CHECK

REVISIONS

No.	Date	Description
△	07/31/25	PLAN CHECK CORRECTIONS.

JOB NO.	SHEET NO.
25.076	
DATE	
07/31/2025	
PROJECT COORDINATOR	
RON PRYCE	
SCALE	OF
AS NOTED	

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD						NRCC-PRF-E		
Nonresidential Performance Compliance Method						(Page 1 of 11)		
Project Name:		HANFORD MARKET PLACE SHOPS 3			Date Prepared:		2025-07-31	
A. General Information								
1	Project Name	HANFORD MARKET PLACE SHOPS 3						
2	Run Title	Title 24 Analysis						
3	Project Location	2451 E. LACY BOULEVARD						
4	City	HANFORD		5	Standards Version	Compliance 2022		
6	Zip code	93232		7	Compliance Software (version)	EnergyPro 9.3		
8	Climate Zone	13		9	Building Orientation (deg)	380		
10	Building Type(s)	• Nonresidential						
12	Project Scope	• Existing alteration						
13	Total Conditioned Floor Area in Scope (ft²)	2019		14	Number of Dwelling Units	0		
15	Total Unconditioned Floor Area (ft²)	0		15	Total # of hotel/motel rooms	0		
16	Nonresidential Conditioned Floor Area	2019		17	Fuel Type	Natural gas		
19	Total # of Stories (Habitable Above Grade)	1						
20	Residential Conditioned Floor Area	0						

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220601
Report Generated: 2025-07-31 07:33:19
Compliance ID: EnergyPro-6336-0725-0308

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E
Nonresidential Performance Compliance Method				(Page 5 of 11)
C3. TIDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS ¹				
Non-Regulated Energy Component	Standard Design (TIDV)	Proposed Design (TIDV)	Compliance Margin (TIDV) ²	
Receptacle	93.87	93.87	---	
Process	---	---	---	
Other Ltg	---	---	---	
Process Motors	---	---	---	
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	479.99	388.82	91.17 (19%)	
¹ Notes: This table is not used for Energy Code Compliance.				
C6. 'ABOVE CODE' QUALIFICATIONS				
☐ This project is pursuing CalGreen Tier 1		☐ This project is pursuing CalGreen Tier 2		

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220601
Report Generated: 2025-07-31 07:33:19
Compliance ID: EnergyPro-6336-0725-0308

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD															NRCC-PRF-E	
Nonresidential Performance Compliance Method															(Page 9 of 11)	
H. WATER HEATER EQUIPMENT SUMMARY																
01	02	03	04	05	06	07	08	09	10	11	12	13	14			
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kW)	Efficiency	Efficiency Unit	Tank Insulation R-value (R-Value)	Standby Loss Fraction	Set Pt. (°F)	Hot Water Flow Rate (gpm)	Heat Pump Type	Tank Location or Ambient Condition			
Instantaneous Electric2	Electricity	Instantaneous	1	1	3.6 kW	0.98	UEF	N/A	N/A	1	N/A	N/A	N/A			
I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION																
Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.																
Building Component		Form/Title														
Mechanical		NRCC-MCH-01-E - Must be submitted for all buildings														
Mechanical		NRCC-MCH-E - For all buildings with Mechanical Systems														
Plumbing		NRCC-PUB-01-E - Must be submitted for all buildings														
Plumbing		NRCC-PUB-E - For all buildings with Plumbing Systems														
M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE																
Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).																
Building Component		Form/Title & System Name(s)														
Mechanical		NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap														
Mechanical		NRCA-MCH-03-A - Constant Volume Single Zone HVAC														
Mechanical		RTU-1 AND RTU-2														

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220601
Report Generated: 2025-07-31 07:33:19
Compliance ID: EnergyPro-6336-0725-0308

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD							NRCC-PRF-E	
Nonresidential Performance Compliance Method							(Page 2 of 11)	
B. PROJECT SUMMARY								
Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.								
Building Components Complying via Performance				Building Components Complying Prescriptively				
Envelope (See Table G)	Names	Not Included	Solar Thermal Water Heating (See Table H)	☐	Performance	The following building components are OK for eligible for prescriptive compliance and should be documented on the NRCC form listed within the scope of the permit application. If a component is not listed within the NRCC form, it is required on the NRCC form.		
				☒	Not Included			
Mechanical (See Table H)	Names	Performance	Covered Process - Commercial Kitchens (See Table I)	☐	Performance	Indoor Lighting (Unventilated) 140.8 & 170.2(a) NRCC-CTD-E is required		
	Multi/Fan	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(a) NRCC-CTD-E is required		
Domestic Hot Water (See Table I)	Names	Performance	Covered Process - Laboratory Exhaust (See Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(a) NRCC-CTD-E is required		
	Multi/Fan	Not Included		☒	Not Included	Building Components Complying with Mandatory Measures		
Lighting (Indoor Conditioned, see Table K)	Names	Not Included	Photovoltaics (See Table F)	☐	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e., compliance will not be shown on the NRCC-PREF-E).		
	Multi/Fan	Not Included		☒	Not Included	Electrical Power Distribution 110.11 NRCC-CTD-E is required		
			Battery (see Table F)	☐	Performance	Commissioning 120.8 NRCC-SAB-E is required		
				☒	Not Included	Solar and Battery 110.10 NRCC-SAB-E is required		

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220601
Report Generated: 2025-07-31 07:33:19
Compliance ID: EnergyPro-6336-0725-0308

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD							NRCC-PRF-E
Nonresidential Performance Compliance Method							(Page 6 of 11)
C7. ENERGY USE SUMMARY							
Energy Component	Standard Design Site (Btu/yr)	Proposed Design Site (Btu/yr)	Margin (Btu/yr)	Standard Design Site (kW/yr)	Proposed Design Site (kW/yr)	Margin (kW/yr)	
Space Heating	---	1.1	---	8.1	---	---	
Space Cooling	7.1	7.1	0	---	---	---	
Indoor Fans	10.4	4.1	6.3	---	---	---	
Heat Rejection	---	---	---	---	---	---	
Pumps & Misc.	---	---	---	---	---	---	
Domestic Hot Water	1.5	1.4	0.1	---	---	---	
Indoor Lighting	6.6	6.6	0	---	---	---	
Flexibility	---	---	---	---	---	---	
EFFICIENCY TOTAL	25.6	20.3	5.3	8.1	0	8.1	
Photovoltaics	---	---	---	---	---	---	
Batteries	---	---	---	---	---	---	
ENERGY USE SUBTOTAL	25.6	20.3	5.3	8.1	0	8.1	
Receptacle	7.3	7.3	0	---	---	---	
Process	---	---	---	---	---	---	
Other Ltg	---	---	---	---	---	---	
Process Motors	---	---	---	---	---	---	
ENERGY USE TOTAL	32.9	27.6	5.3	8.1	0	8.1	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220601
Report Generated: 2025-07-31 07:33:19
Compliance ID: EnergyPro-6336-0725-0308

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRCC-PRF-E	
Nonresidential Performance Compliance Method					(Page 10 of 11)	

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION						
Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.						
There are no Certificates of Verification applicable to this project.						

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRCC-PRF-E	
Nonresidential Performance Compliance Method					(Page 3 of 11)	
C1. COMPLIANCE SUMMARY						
COMPLIES ¹						
		Time Dependent Valuation (TDV)		Source Energy Use		
		Efficiency ² (kBtu/ft ² · yr)	Total ³ (kBtu/ft ² · yr)	Total ⁴ (kBtu/ft ² · yr)		
Standard Design		386.12	n/a	n/a		
Proposed Design		294.95	n/a	n/a		
Compliance Margins		91.17	n/a	n/a		
		Pass		n/a		

¹ Efficiency measures include improvements like a better building envelope and more efficient equipment.
² Compliance Totals include efficiency, photovoltaics and batteries.
³ New Construction, Complete Addition Scope: Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded.
⁴ Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded.

PROJECT

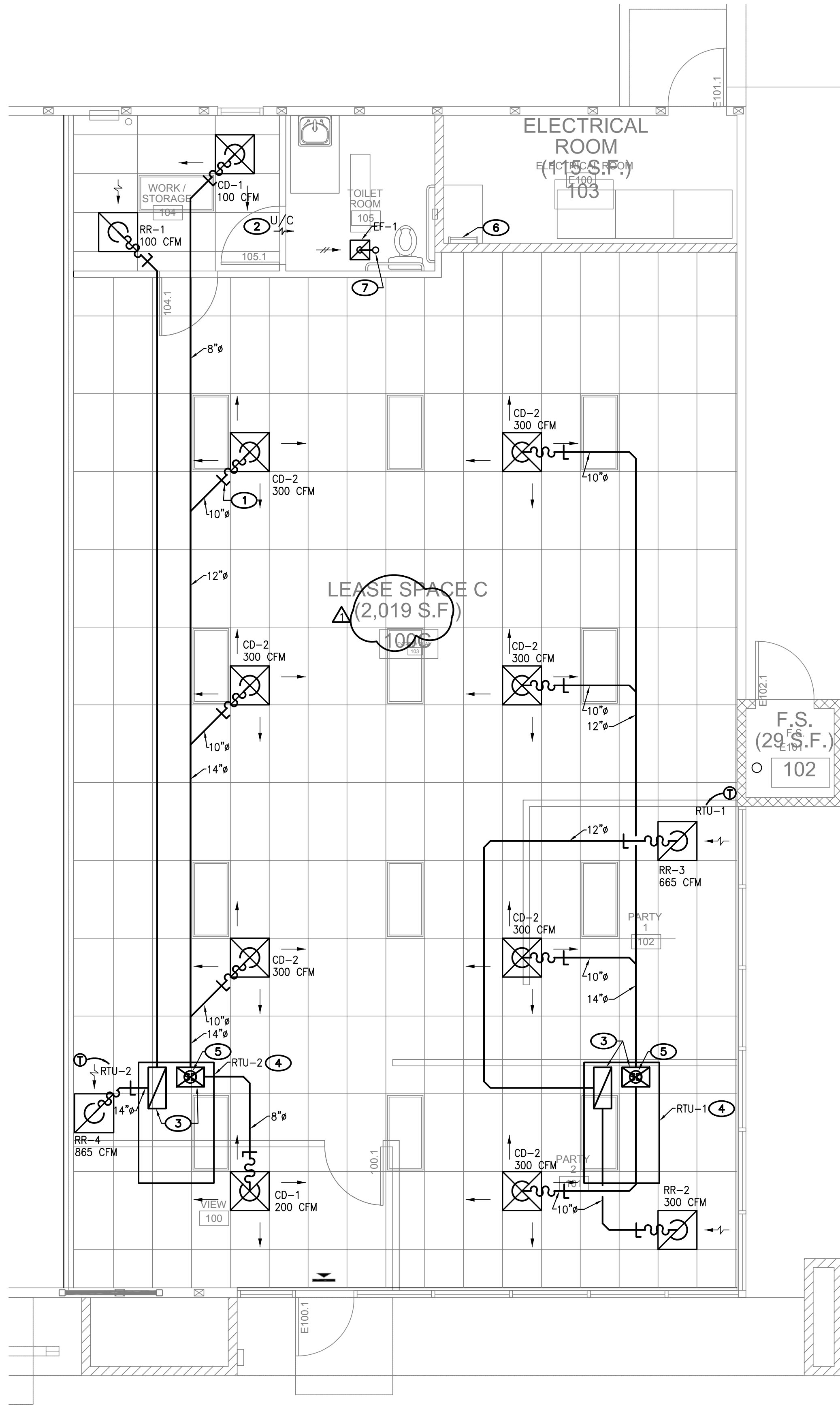
Project Architect Approval:

Consultant:



Project Name:

Tenant Improvement for
**Hanford Marketplace
Shops 3**
2461 E. Lacy Blvd., Suite.
Hanford, CA 93232



KEY NOTES:

- MANUAL VOLUME DAMPER, TYPICAL.
- 1" DOOR UNDERCUT.
- 17"x12" SUPPLY AND 25"x11" RETURN PLENUMS DOWN AND TERMINATE ABOVE T-BAR CEILING.
- CONTRACTOR SHALL INSPECT THE EXISTING ROOF CURBS WHERE THE NEW RTU WILL BE SITTING ON TOP OF. PROVIDE ADAPTOR CURB IF NECESSARY.
- DUCT SMOKE DETECTOR. CONNECT DUCT SMOKE DETECTOR TO ITS RESPECTIVE RTU.
- EXISTING ROOF ACCESS LADDER.
- 6" EXHAUST AIR DUCT, UP THROUGH ROOF, TO ROOF CURB-CAP.

KEY NOTES:

- HVAC CONTRACTOR SHALL COORDINATE INSTALLATION WITH ALL TRADES.
- GENERAL CONTRACTOR SHALL COVER ALL EQUIPMENT AND DUCT OPENINGS DURING CONSTRUCTION PER 2022 CALIFORNIA GREEN BUILDING CODE.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY DUCT TRANSITIONS PER SMACNA STANDARDS.
- PROVIDE INSULATION MATERIALS, ADHESIVES, COATINGS, SEALANTS, FITTING COVERS, AND OTHER ACCESSORIES WITH A FIRE HAZARD RATING NOT TO EXCEED 25 FOR FLAME SPREAD, 25 FOR FUEL CONTRIBUTED AND 50 FOR SMOKE DEVELOPED.
- HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS (INCLUDING HYDRONIC SYSTEMS) SHALL BE BALANCED IN ACCORDANCE WITH AN APPROVED METHODS PER SECTION 407.3 OF THE 2022 CALIFORNIA MECHANICAL CODE.
- CONTRACTOR SHALL VERIFY THE FIELD CONDITION TO DETERMINE IF THE DESIGN DUCTWORK WILL FIT ABOVE CEILINGS. IF NOT, CONTRACTOR SHALL RESIZE THE DUCTWORK WITH STATIC PRESSURE LOSS OF NO MORE THAN 0.08" / 100 LINEAR FEET OF DUCTWORK.
- CONTRACTOR SHALL SUBMIT, TO THE BUILDING DEPARTMENT, OF A CERTIFIED AIR BALANCE REPORT AND OUTSIDE AIR CERTIFICATION. THE CERTIFIED AIR BALANCE REPORT IS REQUIRED PRIOR TO CERTIFICATE OF OCCUPANCY.
- CONTRACTOR SHALL LOCATE EXHAUST TERMINATIONS SO THAT THEY ARE MINIMUM 10 FEET AWAY FROM ANY OUTSIDE INTAKES.
- CONTRACTOR SHALL PAINT ALL DIFFUSERS AND GRILLES TO MATCH ADJACENT CEILING.
- ALL DUCTS SHALL BE RIGID DUCTS EXCEPT FOR THE LAST 5 FEET OF DUCT CONNECTION TO REGISTER. SEE DETAIL D/M-2.
- ALL SUPPLY AND RETURN AIR DUCTS IN CONCEALED SPACE SHALL BE INSULATED WITH R VALUE OF 8.
- CONTRACTOR SHALL DEMOLISH AND DISPOSE OF EXISTING DUCTWORK AND REGISTERS THAT WILL NOT BE REUSED.
- THE AIR DUCT AND PLENUM SYSTEM IS DESIGNED PER 2022 CEC, SECTION 120.4(A)-(F).

VENTILATION CALCULATION								
AREA	RP	PZ	RA	AZ	VBZ	EZ	VOZ	TITLE 24
RTU-1	7.5	14	0.12	1009	226	1.0	226	252
RTU-2	7.5	14	0.12	1009	226	1.0	226	252

VBZ = RP * PZ + RA * AZ (EQUATION 403.2.1)
RP = OUTDOOR AIRFLOW RATE FROM TABLE 402.1
PZ = ZONE POPULATION
RA = OUTDOOR AIRFLOW RATE PER UNIT AREA FROM TABLE 402.1
AZ = ZONE FLOOR AREA
VOZ = VBZ / EZ (EQUATION 403.2.3)
EZ = 1.0 (PER TABLE 403.2.2)
VOT = VOZ

MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

SHEET

MECHANICAL
PLAN

PROJECT DEVELOPMENT

Date Issued For
PLAN CHECK

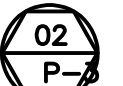
REVISIONS

No. Date Description
PLAN CHECK
CORRECTIONS.

JOB NO. SHEET NO.
25.076
DATE
07/31/2025
PROJECT COORDINATOR
RON PRYCE
SCALE
AS NOTED

M-4

APPLICABLE CODES		
PART 1	2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.	
PART 2	2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)	
PART 3	2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)	
PART 4	2022 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R. (2021 INTERNATIONAL MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)	
PART 5	2022 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R. (2021 INTERNATIONAL PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)	
PART 6	2022 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.	
PART 7	CURRENTLY VACANT	
PART 8	2022 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.	
PART 9	2022 CALIFORNIA FIRE CODE, TITLE 24 C.C.R.	
PART 10	(2021 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)	
PART 10	2022 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2021 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)	
PART 11	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 CCR.	
PART 12	2022 CALIFORNIA REFERENCED STANDARDS, TITLE 24 C.C.R.	

CALL OUT	
	"S" - FIXTURE TYPE "J" - DENOTES FIXTURE NUMBER
	MECHANICAL EQUIPMENT DESIGNATION "EF" DENOTES EXHAUST FAN "WAF" DENOTES MAKE-UP AIR UNIT "FC" DENOTES FAN-COIL "CU" DENOTES CONDENSING UNIT "RTU" DENOTES ROOFTOP UNIT "Y" DENOTES EQUIPMENT NUMBER
	"02" - DENOTES DETAIL CALL-OUT "P-3" - DENOTES DRAWING NUMBER

WATER CALCULATION	
STREET PRESSURE: <u>60</u> PSI (E) SUB-METER SIZE: <u>2"</u> FOR <u>4</u> GPM FLOW MATERIAL: COPPER EXISTING BACKFLOW PREVENTER: ZURN 375XL SERIAL # 2723396.	
	COLD WATER
1. METER & SUB-METER LOSS, PSI	3
2. STATIC LOSS, PSI (12'X0.43)	5.16
3. RESIDUAL PRESSURE REQUIRED, PSI	25
4. (E) PRESSURE REDUCING VALVE FALL OFF, PSI	-
5. (E) BACKFLOW PREVENTER	12
6. TOTAL LOSSES, PSI	45.16
7. WATER PRESSURE (MIN.), PSI	60
8. PRESSURE AVAILABLE FOR FRICTION, PSI	14.84
9. ACTUAL LENGTH OF SYSTEM, FT.	100
10. DEVELOPED LENGTH 120% OF ITEM 9	120
11. AVERAGE PRESSURE DROP, PSI/100 FT. ITEM 8 ITEM 10 X 100	12.3

SEWER SIZING (2% SLOPE)			
PIPE SIZE	SEWER FIX. UNIT (HORIZONTAL)	SEWER FIX. UNIT (VERTICAL)	VENT FIX. UNIT
1 1/4"	1	1	1
1 1/2"	1	2	8
2"	8	16	24
3"	35	48	84
4"	216	256	256
6"	720	1380	1380

COLD WATER SIZING			
PIPE SIZE	SYSTEM		
	F. TANK	F. VALVE	GPM
1/2"	4	0	4
3/4"	13	0	10

COLD WATER SIZING BASED ON FRICTION LOSS APPROXIMATELY AT 12.3 PSI/100 FT AND MAXIMUM WATER FLOW RATED OF 8 FT/S FOR COPPER TUBING

HOT WATER SIZING		
PIPE SIZE	SYSTEM	
	FIXTURE UNIT	GPM
1/2"	3	2
3/4"	8	7

HOT WATER SIZING BASED ON FLOW RATED MAXIMUM AT 5 FT/S FOR COPPER TUBING

PIPE SCHEDULE									
SERVICE	LOCATION	MATERIALS							
		TYPE 'K' COPPER	TYPE 'L' COPPER	TYPE 'M' COPPER	NO. PIPE	SCH. 40 CAST IRON	SCH. 40 BLACK STEEL	SCH. 40 GALV. STEEL	ROULEE-LENE STEEL
WATER	ABV. FLR.	●							
	BEL. FLR.	●							
WASTE (SANITARY)	ABV. FLR.			●					
	BEL. FLR.			●					
VENT (SANITARY)	ABV. FLR.					●			
	BEL. FLR.					●			
INDIRECT WASTE	INSIDE		●						
	OUTSIDE		●						

HARRIS BRIDGIT LEAD FREE SOLDERED FITTINGS
HARRIS BRIDGIT LEAD FREE SOLDERED FITTINGS, UP TO 4"
PVC PIPE & FITTINGS, 5" & GREATER
SOLVENT WELD
SOLVENT WELD
SOLVENT WELD
LEAD FREESOLDERED FITTINGS
LEAD FREESOLDERED FITTINGS

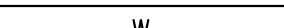
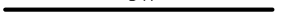
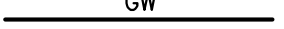
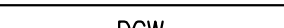
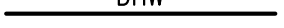
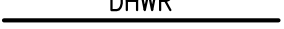
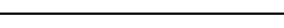
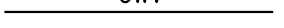
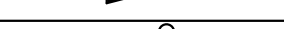
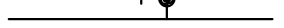
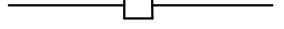
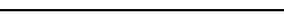
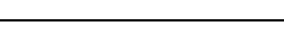
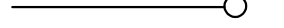
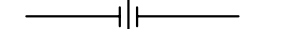
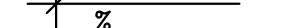
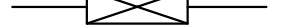
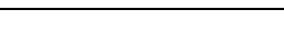
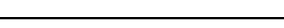
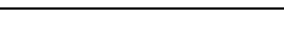
PLUMBING FIXTURE SCHEDULE						
SYMBOL	FIXTURE	ROUGH-IN SIZE				REMARKS
		W	V	DCW	DHW	
L-1	LAVATORY (ACCESSIBLE)	2"	1 1/2"	1/2"	1/2"	BATH COLLECTION MODEL NO. UNLIMITED 60, WALL HUNG LAVATORY, VITREOUS CHINA WALL HUNG. PROVIDE FACTORY WBSO 53991 PUSH WASTE DRAIN AND WBSO 53922 DECORATIVE TRAP. PROVIDE ARM SUPPORT, DRILL LAVATORY FAUCET HOLES ON 4" CENTERS, PROVIDE 3/8" ANGLE STOP FOR COLD WATER CONNECTION. MOUNT RIM AT 34" A.F.F. PROVIDE INSULATION SYSTEM KIT FOR P-TRAP AND ANGLE VALVE ASSEMBLIES AND OFF-SET GRID DRAIN PLUG WITH 17 GA TAILPIECE. FAUCET: DELTA R610104 0.5 GPM @ 0.2 GALLON PER PUSH BUTTON ACTIVATION. LEONARD THERMOSTATIC MIXING VALVE MODEL NO. 170-LF-BRKT. SET HOT WATER OUTLET AT 105°F.
WC-1	WATER CLOSET (ACCESSIBLE)	4"	2"	3/4"	-	FLOOR MOUNTED, PRESSURE ASSIST FLUSH TANK TOILET, AMERICAN STANDARD MODEL 2467.100. WHITE VITREOUS CHINA, ELONGATED BOWL, 1.1 GALLONS PER FLUSH, WITH AMERICAN STANDARD 5901.100.020 SEAT AND ANGLE STOP VALVE. TRIGGER LEVER SHALL BE ON THE APPROACHED SIDE.
IWH-1	INSTANT HOT WATER HEATER	-	-	1/2"	1/2"	CHRONOMITE SR-30L/120, 3,600 W OUTPUT, 120V-18-60HZ, 30 AMPS. MINIMUM ACTIVATED GPM: 0.20, 0.5 GPM @ 43° F TEMPERATURE RISE. MOUNT IT UNDER COUNTER.
WCO-1	WALL CLEANOUT	SEE PLAN				ZURN MODEL NO. Z-1446-BP-VP-G W/ CAST IRON BODY, POLISHED STAINLESS STEEL COVER AND VANDAL RESISTANT SCREWS.

THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC, DEPICTING FUNCTION AND PLACEMENT. PROVIDE OFFSETS IN PIPING AND CHANGES IN FIXTURE LOCATIONS AS NECESSARY TO CONFORM TO STRUCTURAL AND ARCHITECTURAL REQUIREMENTS AND TO AVOID OBSTRUCTIONS. CHANGES TO ACCOMMODATE INSTALLATION OF THIS WORK WITH OTHER WORK, IN ORDER TO MEET ARCHITECTURAL OR STRUCTURAL CONDITIONS, SHALL BE MADE WITHOUT ADDITIONAL COST TO OWNER.

FIXTURE UNIT COUNT							
FIXTURE TYPE	# OF FIXTURES	CW (FU)	TOTAL CW (FU)	HW (FU)	TOTAL HW (FU)	WASTE (FU)	TOTAL WASTE (FU)
LAVATORY	1	1	1	0.75	0.75	1	1
WATER CLOSET (FLUSH TANK)	1	2.5	2.5	0	0	4	4
TOTAL UNIT			3.5		0.75		5.0

STANDARD FOR PLUMBING FIXTURES		
WATER CLOSET (TOILETS) - TANK TYPE SINGLE FLUSH, MAXIMUM FLUSH VOLUME: 1.28 GALLONS PER FLUSH.		2022 CALGREEN 5.303.3.1
PUBLIC LAVATORY FAUCET: MAXIMUM FLOW RATE - 0.5 GPM (1.9L/MIN) @ 60 PSI		2022 CALGREEN 5.303.3.4.1
METERING FAUCETS: 0.2 GALLONS PER CYCLE		2022 CALGREEN 5.303.3.4.4

FIXTURE FLOW RATES		
FIXTURE TYPE	WATER USE BASELINE FLOW RATE	SPECIFIED PLUMBING FIXTURE FLOW RATE
LAVATORY FAUCET (NONRESIDENTIAL)	0.5 GPM @ 60 PSI	0.5 GPM @ 60 PSI
METERING FAUCETS	0.20 GALLON/CYCLE	0.20 GALLON/CYCLE
GRAVITY TANK TYPE WATER CLOSET	1.28 GALLONS/FLUSH	1.1 GALLONS/FLUSH

LEGEND		
SYMBOL	ABBR.	DESCRIPTION
	S OR W	SOIL OR WASTE ABOVE FLOOR OR GRADE
	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
	GW	GREASE WASTE ABOVE FLOOR OR GRADE
	GW	GREASE WASTE BELOW FLOOR OR GRADE
	V	SANITARY VENT
	GV	SANITARY GREASE VENT
	DCW	DOMESTIC COLD WATER
		UNDERGROUND PIPE
	DHW	DOMESTIC HOT WATER
	DHWR	DOMESTIC HOT WATER RETURN
	D	INDIRECT DRAIN LINE
	CD	CONDENSATE DRAIN
	G	FUEL GAS
	TP	TRAP PRIMER
	CWV	COMBINE WASTE AND VENT BELOW FLOOR OR GRADE
		DIRECTION OF FLOW
	P.G.	PRESSURE GAUGE W/PETE COCK
	G.C.	GAS COCK
	P.R.V.	PRESSURE REDUCING VALVE
	SOV	SHUT-OFF VALVE
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
		DOWN
		RISE
		UNION
		SLOPE IN DIRECTION OF FLOW
	WHA	WATER HAMMER ARRESTOR
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONTINUATION
	RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
	ABV	ABOVE
	AFF	ABOVE FINISHED FLOOR
	AP	ACCESS PANEL
	BEH	BEHIND
	BEL	BELOW
	CFH	CUBIC FEET PER HOUR
	CI	CAST IRON
	CLG	CEILING
	CONN	CONNECTION
	CONT	CONTINUATION
	COTG	CLEANOUT TO GRADE
	COYB	CLEAN-OUT IN YARD BOX
	CW	COLD WATER
		DEMOLITION FIXTURES
	DP	DISABLED PERSON
	DTL	DETAIL
	EX	EXISTING
	FDC	FIRE DEPT. CONNECTION
	FFE	FINISHED FLOOR ELEVATION
	FLR	FLOOR
	FR	FROM
	FSH	FIRE SPRINKLER HEAD
	GR	GRADE
	HDR	HEADER
	IE	INVERT ELEVATION
	MH	MANHOLE
	RI&C	ROUGH-IN AND CONNECT
	SOV/YB	SHUT-OFF VALVE IN YARD BOX
	TYP	TYPICAL
	VTR	VENT THROUGH ROOF
	W/	WITH

GENERAL NOTES AND SPECIFICATIONS	
1	FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT & FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE & INSTALL ALL WORK NOTED ON THE DRAWINGS AND/OR SPECIFIED HEREIN.
2	WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED IN A THOROUGH & WORKMANLIKE MANNER SATISFACTORY TO AND MEETING THE APPROVAL OF THE ARCHITECT.
3	MATERIALS: ALL MATERIALS, APPLIANCES & EQUIPMENT SHALL BE NEW & THE BEST OF THEIR RESPECTIVE KIND, FREE FROM ALL DEFECTS AND OF THE MAKE, BRAND AND QUALITY SPECIFIED.
4	SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE & FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDING FOR ANY OMISSIONS WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.
5	CODES AND PERMITS: ALL PLUMBING FIXTURES/EQUIPMENTS, INSTALLATION, ETC. SHALL CONFORM TO ALL APPLICABLE CALIFORNIA CURRENT CODES AND ORDINANCES, INCLUDING CALIFORNIA TITLE 24. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS.
6	AS-BUILT: CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT TRANSPARENCIES WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT.
7	GUARANTEE: CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIAL ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP & MATERIALS FOR A PERIOD OF 1 YEAR.
8	SUBMITTALS: CATALOG INFORMATION & CUTS OF ALL EQUIPMENT AND DEVICES SHALL BE SUBMITTED FOR REVIEW (SIX COPIES OF EACH).
9	COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC & INTENDED TO SHOW SCOPE. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE THE BEST ARRANGEMENT OF ALL DUCT, PIPES, CONDUIT, STRUCTURE, ETC.
10	CUTTING AND PATCHING: ALL CUTTING & PATCHING OF THE EXISTING STRUCTURE SHALL BE PROVIDED UNDER OTHER SECTIONS OF THE WORK. PROVIDE ALL NECESSARY REQUIREMENTS TO THE PROJECT SUPERINTENDENT.
11	CLEANUP: UPON COMPLETION OF THE WORK UNDER THIS SECTION THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS, EQUIPMENT & DEBRIS INCIDENTAL TO THIS WORK AND LEAVE THE PREMISES CLEAN AND ORDERLY.
12	ALL HOT WATER SUPPLY AND RECIRCULATION PIPING SHALL BE INSULATED AS FOLLOWS: PIPE SIZE (INCHES) INSULATION THICKNESS (INCHES)(K=0.22-0.28) UNDER 1" 1 INCH INSULATION
13	SOIL, WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON. NO-HUB SOIL PIPE AND FITTINGS TO CONFORM TO C.I.S.P. STANDARD 301.72. UNLESS APPROVED OTHERWISE.
14	HOT AND COLD WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBING WITH WROT COPPER FITTINGS. BRAZE ALL JOINTS WITH HARRIS STAY-SILV-O-LEAD-FREE BRAZING ALLOY. UNLESS APPROVED OTHERWISE.
15	SLOPE ALL CONDENSATE DRAIN LINES AT 1%.
16	SLOPE ALL SANITARY SEWER PIPING MINIMUM 2%. UNLESS APPROVED OTHERWISE.
17	SLOPE ALL STORM DRAIN PIPING MINIMUM 2%. UNLESS APPROVED OTHERWISE.
18	BASE SHELL DRAWINGS WITH LATEST REVISIONS PROVIDED BY OWNER SHALL APPLY TO THESE DRAWINGS. UNLESS APPROVED OTHERWISE.
19	WRAP ALL CAST IRON PIPE AND FITTINGS IN AND BELOW SLAB WITH 20 MIL. POLYETHYLENE WRAP AND 6" MINIMUM ENVELOPE OF CLEAN SAND ALL AROUND PIPE IN ACCORDANCE WITH ANSI/AWWA STANDARD C105/ A21.5-82.
20	FIRE SAFE ALL PIPING PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, AND CEILINGS WITH NELSON 3-HOUR CLK, FSP, OR CMP UL LISTED FIRE RATING PER MFG.'S DIRECTIONS.
21	PLUMBING CONTRACTOR SHALL PROVIDE ALL PLUMBING SERVICES REQUIRED BY THE AIR CONDITIONING CONTRACTOR (CONDENSATE DRAINS, WATER SERVICE, ETC.). REFER TO THE MECHANICAL PLANS FOR ANY PLUMBING SERVICES REQUIRED.
22	CONDENSATE PIPING SHALL BE INSULATED WITH 3/8" FOAM PLASTIC PIPE INSULATION.
23	EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN TEN FEET FROM OR AT LEAST THREE FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT.
24	CLEAN-OUTS SHALL BE INSTALLED AS PER SEC. 707 & 719 OF THE CALIFORNIA PLUMBING CODE-2022. ALL HORIZONTAL VENT LINES BELOW SLAB SHALL HAVE CLEANOUTS ABOVE GROUND PER CODE.
25	PROTECT ROOF RECEPTOR ON ROOF FROM RAIN WATER BY ELEVATING THE RIM 2 INCHES ABOVE ROOF SURFACE.
26	PROVIDE WATERTIGHT FLASHING WHEREVER PIPES PASS THRU EXTERIOR WALLS, ROOF AND FLOORS.
27	PROVIDE FELT WITH METAL BACKING VIBRATION ISOLATION SLEEVES OR PADS AT ALL PIPE HANGERS OR SUPPORTS AND ALL POINTS WHERE PIPING COMES IN CONTACT WITH ANY PORTION OF THE STRUCTURE. APPLIES TO ALL WATER AND WASTE PIPING.
28	LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO STARTING WORK OF THIS SECTION. MAKE REQUIRED ADJUSTMENTS TO CONNECT TO EXISTING UTILITIES. IF INDICATED POINTS OF CONNECTION CANNOT BE MADE TO EXISTING UTILITIES AS FOUND, THE CONTRACTOR SHALL, BEFORE CONTINUING, NOTIFY THE ARCHITECT PRIOR TO INSTALLING ANY WORK WHICH MAY BE AFFECTED.
29	IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AVAILABLE SPACES FOR INSTALLING THE WORK.
30	VALVES SHALL BE NIBCO, JENKINS, WALWORTH, STOCKHAM OR EQUAL. SERVICE PRESSURE SHALL BE SUITABLE FOR SERVICE INTENDED.
31	PROVIDE HANGERS AND SUPPORTS AS REQUIRED. PLUMBERS TAPE AND WIRE ARE NOT ACCEPTABLE.
32	CONTRACTOR SHALL AFFIX A MAINTENANCE LABEL TO ALL EQUIPMENT REQUIRING ROUTINE MAINTENANCE AND SHALL PROVIDE THREE COPIES OF MAINTENANCE AND OPERATING MANUALS TO THE OWNER.
33	CONTRACTOR SHALL ARRANGE FOR AND PAY FOR ALL UTILITY METERS AND UTILITY CONNECTIONS.
34	NO HOLES, NOTCHES, BLOCK OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
35	THE SEISMIC SHUT OFF SHALL BE INSTALLED SHALL BE MOUNTED RIGIDLY TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING.
36	ACCESSIBLE WATER HAMMER ARRESTERS SHALL BE INSTALLED FOR QUICK-ACTING VALVES. LOCATION AND METHOD OF INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATION.
37	NOTE NOT USED.
38	CONTRACTOR SHALL COMPLY WITH CPC 2022 CHAPTER 3 SECTION 306 & 307 REGARDING POINT OF DISCHARGE, CHAPTER 6 SECTION 608.3, 608.4 & 608.5 REGARDING PRESSURE RELIEF AND CHAPTER 7 SECTION 704, 710, 711, 713 & 714 REGARDING BUILDING SEWER SYSTEM.
39	NEW OR REPAIRED POTABLE WATER SYSTEMS ARE REQUIRED TO BE DISINFECTED BY CHLORINATION. 2022 CPC SECTION 609.9.
40	BACTERIOLOGICAL TESTING OF POTABLE WATER SYSTEM REQUIRED TO BE PERFORMED BY AN INDEPENDENT THIRD PARTY TESTING LABORATORY, 2022 CPC SEC. 609.9 (4).
41	ALL UNDERGROUND COPPER INSTALLED MUST BE COMPLETELY SLEEVED WITH A MINIMUM OF 3 MIL. PIPE SLEEVING MATERIAL.

The firm of Pryce Architects expressly reserves its copyright and other applicable property rights in these plans. These plans are not to be reproduced, changed, or copied in any form or manner whatsoever, nor are they to be assigned to a third party without the written consent of the firm. In the event of an authorized reuse of these plans by a third party, the third party shall hold the Architect harmless, and shall bear the cost of the Architect's legal fees associated with defending and enforcing these rights. These plans are and shall remain the exclusive property of Pryce Architects.

PROJECT

Project Architect Approval:

Consultant:



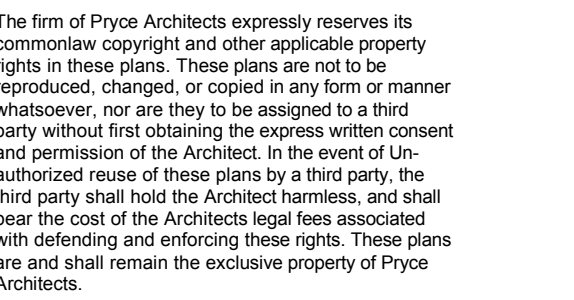
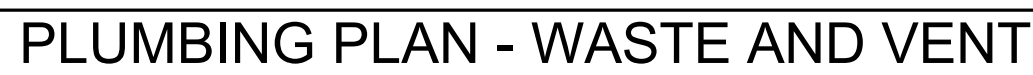
Project Name:

Tenant Improvement for

Hanford Marketplace
Shops 3
2461 E. Lacy Blvd., Suite.
Hanford, CA 93232

S

1. REFER TO ARCHITECTURAL SPECIFICATIONS AND DRAWINGS FOR DESCRIPTION AND LOCATION OF CASEWORK AND EQUIPMENT.
2. THIS CONTRACTOR SHALL ROUGH-IN FOR THE ABOVE LISTED EQUIPMENT AFTER RECEIVING APPROVED DRAWINGS FROM THE OWNER.
3. THE VARIOUS EQUIPMENT SUPPLIERS SHALL SET EQUIPMENT IN PLACE AND THIS CONTRACTOR SHALL PROVIDE INTERCONNECTING PIPING NOT PROVIDED BY EQUIPMENT SUPPLIER. FINAL CONNECTIONS, SUITABLE STOPS AND TRAPS TO CASEWORK AND EQUIPMENT.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURE.
5. INSULATE WASTE PIPING AND WATER SUPPLY PIPING BELOW ALL HANDICAPPED LAVATORIES.
6. COORDINATE WASTE, VENT, AND WATER PIPING WITH STRUCTURAL BEFORE BEGINNING ANY WORK.
7. VERIFY ANY DRILLING, CUTTING OR ALTERING OF EXISTING CONCRETE SLAB NECESSARY FOR COMPLETE PLUMBING INSTALLATION BEFORE BEGINNING AND WORK.
8. COORDINATE WASTE, VENT, AND WATER PIPING WITH ALL TRADES BEFORE BEGINNING ANY WORK.
9. CONTRACTOR SHALL DEMOLISH EXISTING PLUMBING FIXTURES AND THEIR ASSOCIATED PIPING.
10. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING PLUMBING PIPING IN THE FIELD. ADJUST THE PLUMBING DESIGN ACCORDINGLY.
11. CONTRACTOR SHALL PEROUTE ANY EXISTING PLUMBING WATER, VENT, AND WASTE LINES IN THE THE WALLS THAT WILL BE DEMOLISHED, TO NEARBY WALLS.
12. LAVATORY FAUCETS IN RESTROOMS SHALL BE THE SELF CLOSING TYPE AND SHALL NOT EXCEED A WATER FLOW OF 0.2 GALLON PER USE.
13. CONTRACTOR SHALL DEMOLISH EXISTING LAVATORY, WATER CLOSET, TANK TYPE ELECTRIC WATER HEATER, AND SINK THAT WILL NOT BE REUSED.
14. CONTRACTOR SHALL SLOPE SEWER LATERALS AT MINIMUM 2%.
15. ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED.
16. ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN THE LOS ANGELES PLUMBING CODE CHAPTER 4.
17. ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS.
18. WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.



Project Architect Approval:

Consultant



Project Name:

Tenant improvement for

Hanford Marketplace

Shops 3

2461 E. Lacy Blvd., Suite.

Hanford, CA 93232

SHEET

PLUMBING PLANS

PROJECT DEVELOPMENT

Date	Issued For
-	PLAN CHE

REVISIONS

No.	Date	Description
-----	------	-------------

JOB. NO. _____ SHEET NO. _____

DATE _____

06/30/2025

PROJECT COORDINATOR
RON PRYCE

SCALE OF

AS NOTED _____

Page 58 of 819

ABBREVIATIONS

A, AMPS	AMPERES	KV	KILOVOLTS
A/C	AIR CONDITIONER	KVA	KILOVOLTS-AMPERES
AC	ALTERNATE CURRENT OR ABOVE COUNTER	KW	KILOWATTS
AF	AMPERE FRAME	KWH	KILOWATTS-HOURS
AFF	ABOVE FINISHED FLOOR	LCL	LONG CONTINUOUS LOAD
AFG	ABOVE FINISHED GRADE	LF	LINEAR FEET
AIC	AMPERE INTERRUPTION CURRENT	LCP	LIGHT CONTROL PANEL
AL	ALUMINUM	LPS	LOW PRESSURE SODIUM
ARCH	ARCHITECT/ARCHITECTURAL	LTC	LIGHTING
AS	AMPERE SWITCH	LTS	LIGHTS
ATS	AUTOMATIC TRANSFER SWITCH	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MCB	MAIN CIRCUIT BREAKER
BC	BARE COPPER	MCC	MOTOR CONTROL CENTER
BKRD	BACKBOARD	MH	METAL HALIDE
BKR	BREAKER	MIN	MINIMUM
C	CONDUIT	MLO	MAIN LUG ONLY
CB	CIRCUIT BREAKER	MOC	MAX OVERCURRENT PROTECTION
CCTV	CLOSED CIRCUIT TELEVISION	MTD	MOUNTED
CAT.	CANDLE	MSB	MAIN SWITCHBOARD
CD	CATALOG	MSG	MAIN SWITCHGEAR
CFS	COMBINATION FIRE SMOKE DAMPER	N	NEUTRAL
CKT	CIRCUIT	NEC	NATIONAL ELECTRICAL CODE
C.O.	CONDUIT ONLY	NL	NIGHT LIGHT
CJ	COPPER	NTS	NOT TO SCALE
DETL	DETAIL	N	NEW
DISC	DISCONNECT (SWITCH)	OH	OVERHEAD
DIST	DISTRIBUTION	P	POLE
DP	DISTRIBUTION PANEL	PH	PHASE
DWG	DRAWING	PA	PUBLIC ADDRESS
EC	ELECTRICAL CONTRACTOR	POU	POWER DISTRIBUTION UNIT
EG	EQUIPMENT GROUND (GREEN)	PNL	PANEL OR PANELBOARD
EM	EMERGENCY	PVC	POLYVINYL CHLORIDE
EMS	ENERGY MANAGEMENT SYSTEM	R	REMOVE
EMT	ELECTRICAL METALLIC TUBING	REC	RECEPTACLE
EPO	EMERGENCY POWER OFF	RECEPT	RECEPTACLE
(E)	EXISTING	(R)	RELOCATED
FA	FIRE ALARM	RMS	ROOT MENA SQUARE
FACP	FIRE ALARM CONTROL PANEL	SD	SMOKE DETECTOR
FLA	FULL LOAD AMPERES	SW	SPECIFICATIONS
FTV	FIELD TO VERIFY	SWBD	SWITCHBOARD
(F)	FUTURE	SYM	SYMMETRICAL
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	T	TELEPHONE
G, GND	GROUND	TB	TELEPHONE BACKBOARD
GEN	GENERATOR	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTER	UG	UNDERGROUND
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	UGPS	UNDERGROUND PULL SECTION
HP	HORSEPOWER	V	VOLT
HPS	HIGH PRESSURE SODIUM	VOL	VOLT-AMPERES
HZ	HERTZ	W	WATTS
IG	ISOLATED GROUND	VA	VERIFY LOCATION
ISC	INTERRUPTING SHORT CIRCUIT	WL	WATER HEATER
JB	JUNCTION BOX	WH	WEATHERPROOF
KMIL	THOUSAND CIRCULAR MILLS	WP	

SYMBOLS LIST

ANNOTATIONS

	LIGHTING FIXTURE DESIGNATION. REFER TO LIGHTING FIXTURE SCHEDULE
	DETAIL REFERENCE
	SHEET NOTE REFERENCE
	DETAIL NOTE REFERENCE
	EQUIPMENT DESIGNATION
	MECHANICAL EQUIPMENT CALLOUT. "EF" INDICATES UNIT TYPE AND "1" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.
	FEEDER CALLOUT
	REVISION REFERENCE

POWER

	STANDARD 20A, 120V-1Ø GROUNDING TYPE DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE FOUR-PLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE GFCI DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE GFCI FOUR-PLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE DEDICATED DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE SIMPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	20A, 120V-1Ø ISOLATED GROUND DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø COMBINATION USB CHARGER WITH TAMPER RESISTANT DUPLEX RECEPTACLE COOPER TR7745B, WALL MOUNTED AT +18" A.F.F. - U.O.N.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED ABOVE CEILING/BELOW TILE PER ATF - U.O.N.
	SPECIAL RECEPTACLE MOUNTED AT +18" A.F.F. - U.O.N. AMPS - VOLTS & PHASE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH RELOCATED OR NEW INSTALLED EQUIPMENT SUPPLIER PRIOR TO PLACING ORDER.
	SPECIAL 30A RECEPTACLE MOUNTED AT +18" A.F.F. - U.O.N. VOLTS & PHASE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH INSTALLED EQUIPMENT SUPPLIER PRIOR TO PLACING ORDER.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED WITHIN FLUSH OR SURFACE FLOOR OUTLET BOX. "F" DENOTES FLUSH AND "S" DENOTES SURFACE.
	STANDARD 20A, 120V-1Ø GROUNDING TYPE FOUR-PLEX RECEPTACLE MOUNTED WITHIN FLUSH OR SURFACE FLOOR OUTLET BOX. "F" DENOTES FLUSH AND "S" DENOTES SURFACE.
	NON FUSED DISCONNECT SWITCH. AMPS - VOLTS & POLES AS INDICATED
	FUSED DISCONNECT SWITCH. AMPS - VOLTS & POLE AS INDICATED
	COMBINATION STARTER DISCONNECT SWITCH. AMPS - VOLTS & POLE AS INDICATED
	MANUAL MOTOR STARTER SWITCH. RATED @ 1HP, MIN-120V, 1Ø, U.O.N. PROVIDE COMPLETE WITH THERMAL OVERLOAD PROTECTION
	JUNCTION BOX. SIZED BY THIS CONTRACTOR PER ACTUAL NUMBER OF CONDUITS AND/OR CONDUCTORS PASSING THRU ACCORDING TO NEC TABLE 370.16(a)(b)
	JUNCTION BOX, WALL MOUNTED AT +18" A.F.F. FOR FLEXIBLE CONNECTION TO PREWIRED FURNITURE SYSTEM. VERIFY CONNECTION REQUIREMENTS AND LOCATIONS WITH FURNITURE MANUFACTURER PRIOR TO ROUGH-IN
	CIRCUIT BREAKER (SEE SINGLE LINE DIAGRAM)
	FUSED SWITCH (SEE SINGLE LINE DIAGRAM)
	TRANSFORMER (SEE SINGLE LINE DIAGRAM)
	MOTOR OUTLET. H.P. OR F.L.A. - VOLTS & PHASE AS INDICATED. VERY ELECTRICAL CHARACTERISTICS AND CONNECTION REQUIREMENTS WITH INSTALLED EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN WORK
	BRANCH CIRCUIT PANELBOARD. FLUSH OR SURFACE MOUNTED AS INDICATED ON PANELBOARD SCHEDULE.
	SERVICE ENTRANCE OR DISTRIBUTION EQUIPMENT AS SPECIFIED
	MULTI-OUTLET SURFACE RACEWAY ASSEMBLY, TYPE OF OUTLET AS INDICATED ON PLAN
	THERMOSTAT FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE J-BOX BETWEEN +36" TO +48" A.F.F. - U.O.N. PROVIDE 1/2" C.O. TO ASSOCIATED HVAC UNIT OR ACCESSIBLE CEILING SPACE.

BRANCH CIRCUIT

	CONDUIT CONCEALED WITHIN BUILDING WALLS OR CEILING SPACE	7	DENOTES #12 THHN/THWN EQUIPMENT GROUND WIRE - U.O.N.
	CONDUIT ROUTED BELOW FINISHED GRADE AND/OR CONCRETE SLAB. INCLUDE CODE SIZED COPPER BOND CONDUCTOR (NOT SHOWN ON PLAN) IN ALL NON-METALLIC CONDUIT RUNS. HOMERUN TO DESTINATION AS INDICATED. REFER TO CONDUIT SYMBOL ABOVE	1	DENOTES #12 THHN/THWN ISOLATED GROUND WIRE - U.O.N.
	ALL HOMERUNS AND BRANCH CIRCUIT SHALL HAVE GROUND WIRE - U.O.N.		
	CROSS LINE DENOTES QUANTITY OF #12 THHN/THWN CONDUCTORS - U.O.N.		
	NO CROSS LINE DENOTES 2#12 & 1#12G THHN/THWN - U.O.N.		
	CONDUIT SHALL BE 3/4" MIN. - U.O.N.		

TELEPHONE/DATA

	COMBINATION TELEPHONE/DATA OUTLET AT +18" A.F.F., U.O.N. PROVIDE 1" CONDUIT STUB-UP 6" MINIMUM INTO ACCESSIBLE CEILING SPACE.
	TELEPHONE OUTLET AT +18" A.F.F., U.O.N. PROVIDE 1" CONDUIT STUB-UP 6" MINIMUM INTO ACCESSIBLE CEILING SPACE.
	DATA OUTLET AT +18" A.F.F., U.O.N. PROVIDE 1" CONDUIT STUB-UP 6" MINIMUM INTO ACCESSIBLE CEILING SPACE.
	COMBINATION TELEPHONE/DATA OUTLET MOUNTED WITHIN FLUSH OR SURFACE OUTLET BOX. "F" DENOTES FLUSH AND "S" DENOTES SURFACE
	COMBINATION TELEPHONE AND DATA OUTLET BOX, WALL MOUNTED AT +18" A.F.F. FOR FLEXIBLE CONNECTION TO FURNITURE SYSTEM. STUB A 1 1/4" C.O. UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. VERIFY CONNECTION REQUIREMENTS AND LOCATIONS WITH FURNITURE MANUFACTURER PRIOR TO ROUGH-IN
	CABLE TV DATA OUTLET. PROVIDE 1" C.O. STUB UP 6" MINIMUM INTO ACCESSIBLE CEILING SPACE
	TELEPHONE SYSTEM CONDUIT 3/4" C.O.
	TELEPHONE SYSTEM CONDUIT 1" C.O.
	TELEPHONE SYSTEM CONDUIT 1 1/4" C.O.
	TELEPHONE SYSTEM CONDUIT 1 1/2" C.O.

LIGHTING

	RECESS MOUNTED LIGHTING FIXTURE
	SURFACE MOUNTED LIGHTING
	STRIP LIGHTING FIXTURE
	TRACK LIGHTING FIXTURE. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION
	WALL MOUNTED LIGHTING FIXTURE
	RECESSED OR SURFACE MOUNTED DOWNLIGHTING FIXTURE
	CEILING MOUNTED EXIT SIGN. SHADED SIDE INDICATES DIRECTION AND NUMBER OF FACES. PROVIDE ARROWS AS REQUIRED
	WALL MOUNTED EXIT SIGN. SHADED SIDE INDICATES DIRECTION AND NUMBER OF FACES. PROVIDE ARROWS AS REQUIRED
	POLE MOUNTED LIGHTING FIXTURE
	STANDARD 20A, 120/277V-1Ø SPST TOGGLE SWITCH MOUNTED AT +48" A.F.F. - U.O.N. A. ALL SUBSTITUTED LIGHT FIXTURES B. ALL ELECTRICAL SERVICE EQUIPMENT, DISTRIBUTION EQUIPMENT AND PANELBOARDS. C. OTHER ITEMS AS SPECIFICALLY INDICATED.
	STANDARD 20A, 120/277V-1Ø DIMMING SWITCH MOUNTED AT +48" A.F.F. - U.O.N.
	STANDARD 20A, 120/277V-1Ø MECHANICAL TIMED SWITCH (0-1 HOUR, INTERMITTIC #FF60M)
	CEILING MOUNTED OCCUPANCY SENSOR WITH OVERRIDE SWITCH. "o" INDICATES ZONE. WATTSTOPPER W2000A OR EQUAL
	CEILING MOUNTED OCCUPANCY SENSOR
	WALL MOUNTED OCCUPANCY SENSOR MOUNTED AT +48" A.F.F. - U.O.N.
	INTERIOR CEILING MOUNTED PHOTOCCELL SENSOR

EMERGENCY LIGHTING

	RECESSED MOUNTED EMERGENCY LIGHTING FIXTURE CONNECTED TO INTEGRAL BATTERY BACKUP OR EMERGENCY GENERATOR POWER SOURCE. INTEGRAL BATTERY SHALL BE "BODINE" B30 SERIES OR EQUAL. REFER TO LUMEN TABLE #1
	SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE CONNECTED TO INTEGRAL BATTERY BACKUP OR EMERGENCY GENERATOR POWER SOURCE. INTEGRAL BATTERY SHALL BE "BODINE" B30 SERIES OR EQUAL. REFER TO LUMEN TABLE #1
	STRIP EMERGENCY LIGHTING FIXTURE CONNECTED TO INTEGRAL BATTERY BACKUP OR EMERGENCY GENERATOR POWER SOURCE. INTEGRAL BATTERY SHALL BE "BODINE" B30 SERIES OR EQUAL. REFER TO LUMEN TABLE #2
	RECESS OR SURFACE MOUNTED DOWNLIGHTING FIXTURE CONNECTED TO INTEGRAL BATTERY BACKUP OR EMERGENCY GENERATOR POWER SOURCE. INTEGRAL BATTERY SHALL BE "BODINE" B84C SERIES OR EQUAL. REFER TO LUMEN TABLE #3

GENERAL NOTES

1. PROVIDE ALL MATERIAL AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING SYSTEM.
2. COORDINATE AND OBTAIN APPROVALS FROM ALL RESPECTIVE UTILITY COMPANIES AS REQUIRED FOR A COMPLETE AND OPERATING INSTALLATION.
3. INSTALL RACEWAY SYSTEMS AS FOLLOWS:
 - A. USE ELECTRIC METALLIC TUBE CONDUIT IN ALL AREAS PROTECTED ABOVE CEILING OR IN WALLS
 - B. USE RIGID GALVANIZED STEEL IN ALL AREAS EXPOSED TO WEATHER OR PHYSICAL DAMAGE.
 - C. USE FLEXIBLE METALLIC CONDUIT ONLY IN AREAS AS PERMITTED BY LOCAL AUTHORITY. USE SEAL-TITE IN AREAS EXPOSED TO WEATHER
 - D. USE COMPRESSION TYPE FITTING FOR ELECTRICAL METALLIC TUBING WHERE UTILIZED.
 - E. USE P.V.C. CONDUIT UNDERGROUND WITH CODE SIZE GROUND. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.
 - F. THE USE OF ROMEX OR BX IS NOT PERMITTED.
4. ALL NEW WIRING SHALL BE COPPER TYPE "THHN/THWN" - U.O.N.
5. ALL CEILING MOUNTED ELECTRICAL DEVICES AND/OR EQUIPMENT SHALL BE SUPPORTED FROM THE CEILING GRID, NOT FROM THE CEILING TILE.
6. ALL FIXTURE, DEVICE, ETC., LOCATIONS SHALL BE VERIFIED WITH ARCH. DRAWINGS AS WELL AS EQUIPMENT SUPPLIER REQUIREMENTS PRIOR TO ANY ROUGH-IN WORK.
7. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS AN ALL NATIONAL ELECTRICAL CODES.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHTING FIXTURE MOUNTING KITS AS REQUIRED TO SUIT THE EXACT TYPE OF CEILING TO WHICH THEY ARE MOUNTED.
9. THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF EQUIPMENT, DEVICES, ETC., TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED TO. CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES, ETC., AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
10. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.
11. ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL LOCAL AND NATIONAL GOVERNING CODES.
12. ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N.
13. ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS.
14. COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WIRING FOR A PERIOD OF (1) YEAR - U.O.N.
15. ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID - COSTS FOR ALL HVAC CONTROL COMPONENTS, CONDUITS DEVICES, ETC., AS DEEMED NECESSARY FOR A COMPLETE AND OPERATING HVAC SYSTEM. REFER TO MECHANICAL DRAWINGS, DIAGRAMS AND SPECS FOR THOSE ITEMS REQUIRED UNDER THE ELECTRICAL SECTION OF THIS CONTRACT.
16. ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING SITE CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT. EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF AN REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.
17. ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, NEMA CONFIGURATION LOCATIONS, AND CONNECTION REQUIREMENT SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.
18. ELECTRICAL CONTRACTOR SHALL FURNISH THE FOLLOWING SHOP DRAWINGS FOR PRIOR TO APPROVAL:
 - A. ALL SUBSTITUTED LIGHT FIXTURES
 - B. ALL ELECTRICAL SERVICE EQUIPMENT, DISTRIBUTION EQUIPMENT AND PANELBOARDS.
 - C. OTHER ITEMS AS SPECIFICALLY INDICATED.THESE ITEMS SHALL BE APPROVED BY THIS OFFICE PRIOR TO ANY COMMENCEMENT OF PLACING ORDERS OF PERFORMING ANY ROUGH-IN WORK.
19. COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE N.E.C. ART. 250.
20. PENETRATIONS OF ALL FIRE RATED WALLS OR CEILINGS SHALL BE FIRE RATED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
21. PROVIDE RIVETED ON ENGRAVED PLASTIC NAMEPLATES (BLACK WITH WHITE LETTERS) FOR ALL MAJOR ELECTRICA EQUIPMENT.
22. PROVIDE THE OWNER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.
23. ALL DEVICE MOUNTED BACK TO BACK ON THE FIRE RATED WALL SHALL BE MOUNTED WITH 24" MINIMUM HORIZONTAL OFFSET.
24. LOCATION OF OUTLET SHOWN IS APPROXIMATE ONLY AND OUTLET MAY BE MOVED TO SUIT EQUIPMENT LAYOUT, COORDINATE WITH ARCHITECT AND/OR TENANT REPRESENTATIVES FOR EXACT LOCATION.
25. PANELBOARDS SHALL BE PROVIDED WITH TYPEDWRITTEN PANEL SCHEDULE MOUNTED INSIDE EACH PANEL AND ENGRAVE PRIMARY/SECONDARY PANEL LABELS FROM SWITCHBOARD.
26. VERIFY ALL DISCONNECT SWITCHES, FUSE SIZES AND TYPES WITH MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
27. A SEPARATE GROUNDING CONDUCTOR SHALL BE RUN IN ALL NON METALLIC CONDUIT RUNS.
28. ALL ELECTRICAL DEVICES SHOWN IN LIGHT ARE EXISTING TO REMAIN AND DARK ARE NEW.
29. FIRE ALARM AND SECURITY SYSTEMS ARE SHOWN FOR REFERENCE ONLY. REFER TO SUCH RESPECTIVE DRAWINGS FOR COMPLETE SCOPE OF WORK.
30. CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OWNER AND OTHER TRADES PRIOR TO SHUT DOWN OR DISRUPT ANY SERVICE TO EQUIPMENT, HVAC AND ELECTRICAL SYSTEM.
31. CONTRACTOR SHALL CUT OFF, CAP, ABANDON OR REMOVE ANY UNUSED CONDUIT/FEEDER BACK TO SOURCE.
32. CONTRACTOR SHALL DETERMINE IN FIELD FOR ANY CONDUIT/FEEDER TO REMAIN IN USE BUT INTERFERE WITH AREA OF DEMOLITION, THE CONTRACTOR SHALL ALERT THE ARCHITECT/ENGINEER FOR ADDITIONAL INSTRUCTION. IF REQUIRED, CONTRACTOR SHALL RELOCATE AND/OR REROUTE FEEDERS.
33. 130.5(C) VOLTAGE DROP: THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
34. 110.2 APPROVAL: ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
35. ALL ELECTRICAL WORK SHALL BE DESIGNED PER 2022 CALIFORNIA ELECTRICAL CODE, AND 2020 NATIONAL ELECTRICAL CODE AND 2022 BUILDING ENERGY EFFICIENCY STANDARDS.

PRYCE
ARCHITECTS

1936 RICHERT
CLOVIS, CA 93611
559. 439.0700
FAX 559.439.0708

RONALD G. PRYCE, C14974

The firm of Pryce Architects expressly reserves its copyright and other applicable property rights in these plans. These plans are not to be copied, changed, or used in any form or manner whatsoever, nor are they to be assigned to a third party without the express written consent and permission of the Architect. In the event of litigation, the third party shall hold the Architect harmless, and shall bear the cost of the Architect's legal fees associated with defending and enforcing these rights. These plans are and shall remain the exclusive property of Pryce Architects.

PROJECT

Project Architect Approval:

Consultant:

IGNISIC
seals

15141 Woodman Ave
Fresno, CA 93720
Phone 807.231.6247

Project Name:

Tenant improvement for

Hanford Marketplace

Shops 3

2461 E. Lacy Blvd., Suite.

Hanford, CA 93232

SHEET

**GENERAL NOTES,
LEGEND**

PROJECT DEVELOPMENT

Date	Issued For
-	PLAN CHECK

REVISIONS

No.	Date	Description
1	07/31/25	PLAN CHECK CORRECTIONS

JOB NO.

SHEET NO.

DATE

PROJECT COORDINATOR

RON PRYCE

SCALE

OF

AS NOTED

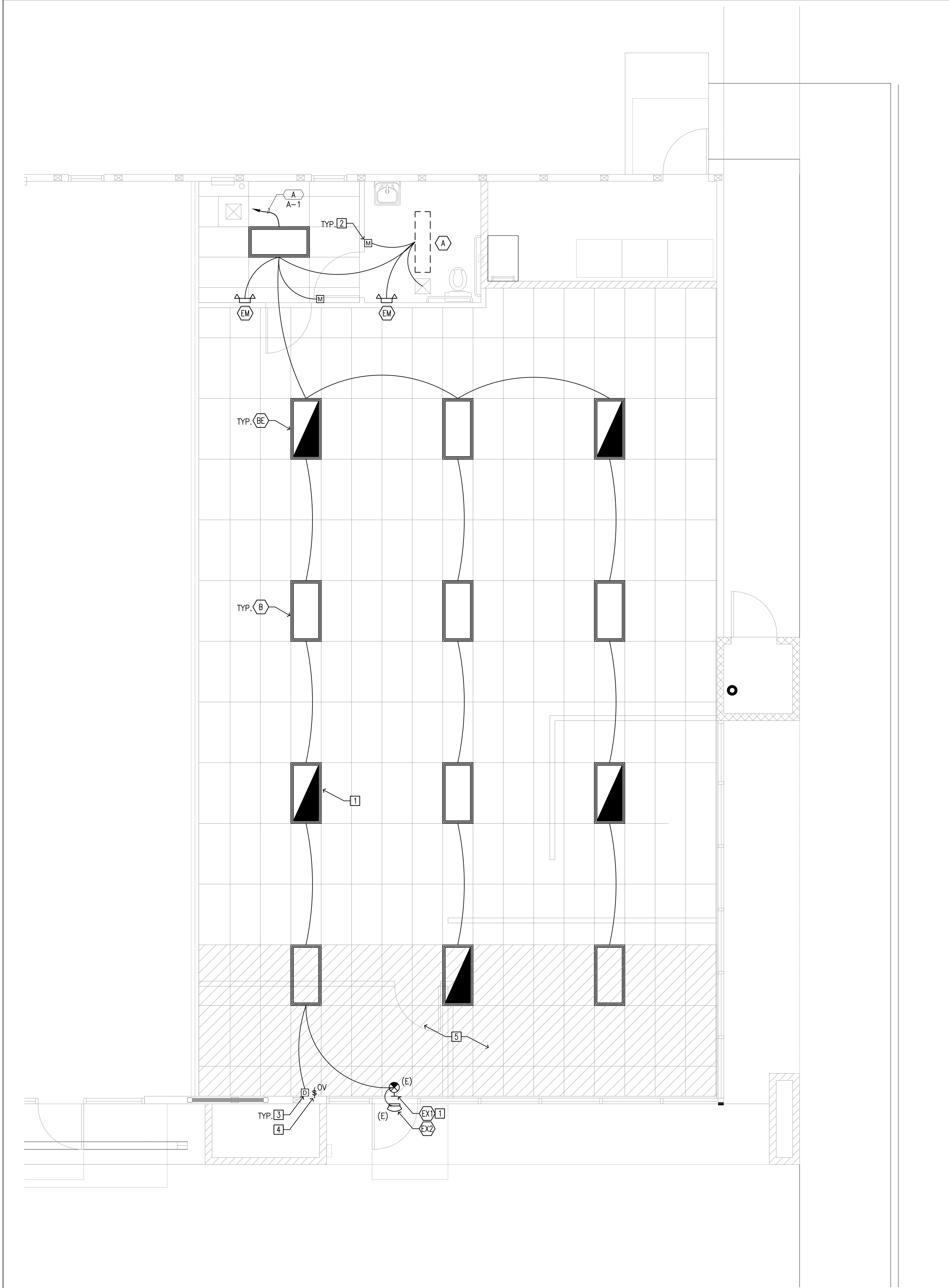
E1.0

SINGLE LINE DIAGRAM KEY NOTES

- 1 EXISTING MAIN SWITCHBOARD TO REMAIN.
- 2 EXISTING UTILITY ELECTRICAL METER TO REMAIN. VERIFY WITH UTILITY COMPANY.
- 3 EXISTING 2"Ø, 4#3/Ø, 1#6 GRD. TO REMAIN.
- 4 EXISTING ELECTRICAL PANELBOARD TO REMAIN. REFER TO PANEL SCHEDULES FOR MORE INFO.

GENERAL NOTES

1. ALL ITEMS SHOWN ARE EXISTING, U.O.N.
2. ALL NEW FEEDER CONDUCTORS SHALL BE COPPER, CONDUCTORS #2 AND LARGER SHALL BE "XHHW", CONDUCTORS SMALLER THAN #2 SHALL BE "THHN/THWN"
3. AMPACITY FOR CONDUCTORS SIZE 14 THROUGH 1AWG SHALL BE DETERMINE ON 60" COLUMN OF TABLE 310.16 AND 75" COLUMN FOR CONDUCTORS LARGER THAN #1AWG
4. ELECTRICAL SWITCHBOARDS, PANELBOARDS, CONTROL PANELS, METER SOCKET ENCLOSURE AND MOTOR CONTROL CENTERS SHALL BE PERMANENTLY MARKED AND VISIBLE TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. CEC 110.16
5. CONTRACTOR TO PROVIDE ANTI-OXIDANT COMPOUND AS NECESSARY AT TERMINAL OF DIFFERENT ALKALINE MATERIAL. VERIFY WITH ELECTRICAL EQUIPMENT MANUFACTURER FOR RECOMMENDATIONS AND INSTRUCTIONS.
6. ALL NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANEL BOARDS SHALL MATCH THE HIGHEST EXISTING AIC RATED BREAKERS WITHIN THAT BOARD.

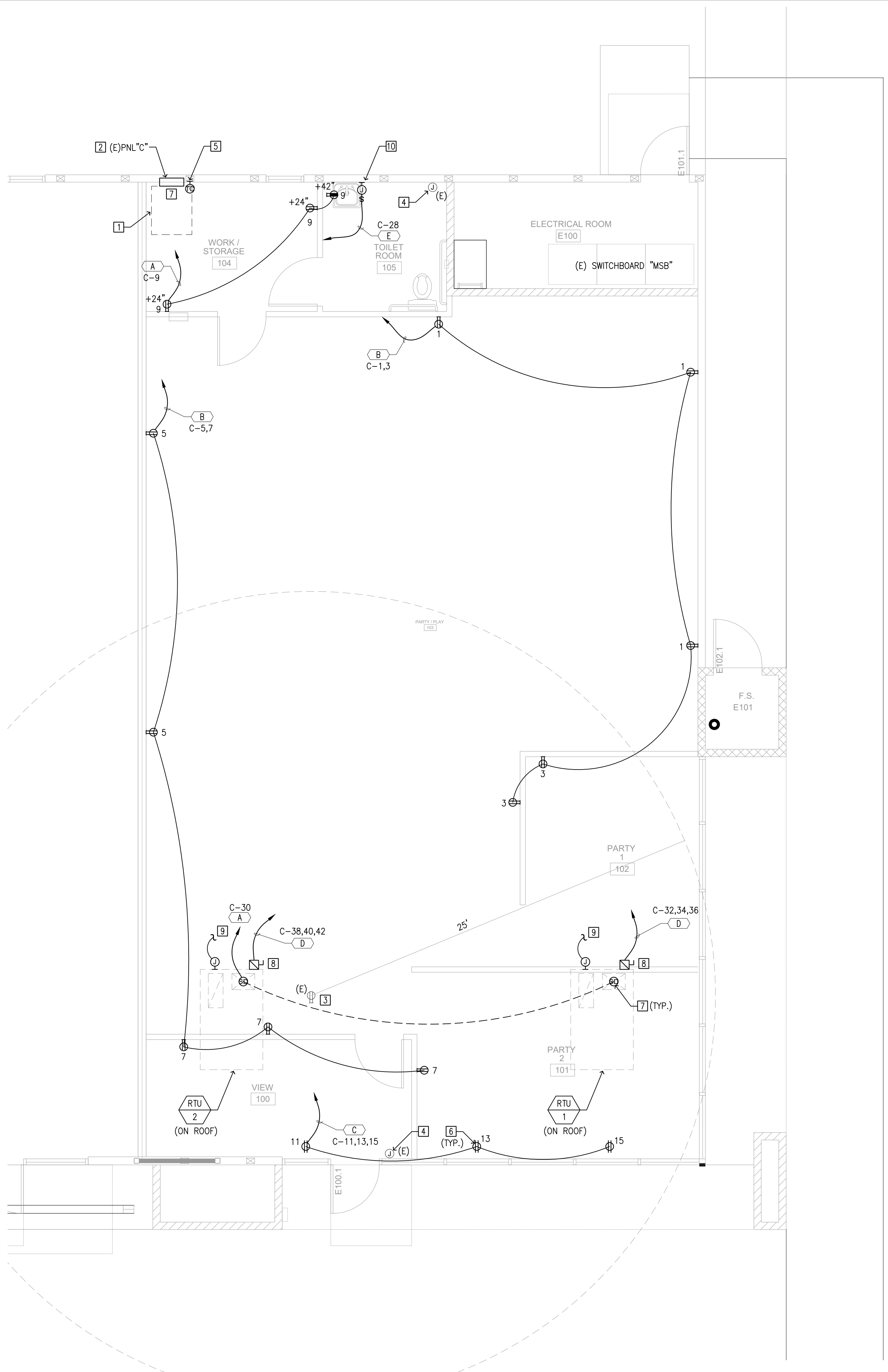


LIGHTING PLAN

SCALE: 1/4"=1'-0"

LIGHTING PLAN KEYED NOTES

- ALL EXIT SIGNS AND EMERGENCY BATTERY PACKS SHALL BE ENERGIZED WITH LOCAL LIGHTING CIRCUIT. ROUTE SEPARATE HOT LEG AHEAD OF SWITCH TO FIXTURE, UNLESS SHOWN OTHERWISE.
** EXIT WAYS SHALL BE ILLUMINATED WITH AT LEAST ONE FOOT CANDLE AT FLOOR LEVEL CBC 1006.2
** SEPARATE SOURCE OF POWER SHALL BE PROVIDED FOR EXIT ILLUMINATION. CBC 1011.5.3
** PROVIDE EXIT SIGNS WHEN TWO OR MORE EXITS ARE REQUIRED.
** EXIT SIGNS SHALL BE POWERED FROM TWO SOURCES: ONE NORMAL POWER AND ONE FROM MINIMUM 90 MINUTES EMERGENCY BATTERY PACK.)
- PROVIDE WALL MOUNTED MOTION SENSOR SWITCH. VERIFY COMPATIBILITY WITH LIGHT FIXTURE MANUFACTURER. LUTRON MAESTRO OR EQUAL.
- PROVIDE WALL MOUNTED DIMMER SWITCH. VERIFY COMPATIBILITY WITH LIGHT FIXTURE MANUFACTURER. LUTRON MAESTRO OR EQUAL.
- OVERRIDE SWITCH
- DAYLIT CONTROL NOT REQUIRED. LESS THAN 120W OF LIGHTING LOAD IN THE AREA. 130.1(d).



POWER PLAN

SCALE: 1/4"=1'-0"

POWER PLAN KEYED NOTES

- PROVIDE TYPE-WRITTEN PANEL DIRECTORY PER NEC 408.2. MAINTAIN A WORKING SPACE OF NOT LESS THAN 30 INCHES IN WIDTH, 36 INCHES (FOR 120/208V) SHALL BE PROVIDED IN FRONT OF ELECTRICAL SERVICE EQUIPMENT. WHERE THE ELECTRICAL SERVICE EQUIPMENT IS WIDER THAN 30 INCHES, THE WORKING SPACE SHALL NOT BE LESS THAN THE WIDTH OF THE EQUIPMENT. NO STORAGE OF ANY MATERIALS SHALL BE LOCATED WITHIN THE DESIGNATED WORKING SPACE.
- EXISTING ELECTRICAL PANEL TO REMAIN. REFER TO PANEL SCHEDULE FOR CIRCUIT DESIGNATION.
- EXISTING WP, WR, GFCI, EXTRA DUTY RECEPTACLE ON ROOF TO REMAIN. SEE PANEL FOR CIRCUIT.
- EXISTING J-BOX FOR EXTERIOR SIGNAGE. EXISTING CIRCUIT TO REMAIN. REFER TO PANEL SCHEDULE FOR CIRCUIT DESIGNATION
- PROVIDE NEW TIMECLOCK FOR INTERIOR LIGHT
- WINDOW RECEPTACLE, MOUNTED ON CEILING OR +12" ABOVE WINDOW. VERIFY MOUNTING HEIGHT IN FIELD
- DUCT SMOKE DETECTOR. REFER TO MECHANICAL DRAWING FOR MORE INFORMATION. ROUTE FEEDER BELOW ROOF
- PROVIDE WP NEMA 3R FUSED DISCONNECT SWITCH. 30AS/3/30AF. REFER TO MECHANICAL SHEETS FOR MORE INFORMATION.
- PROVIDE 3/4"C. TO FC FOR CONTROL WIRING. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- JUNCTION FOR INSTANT HOT WATER HEATER. PROVIDE 1P30A MOTOR RATED TOGGLE SWITCH

GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID
- ALL TEMPERATURE CONTROL AND INTERLOCK CONDUIT AND WIRING SHALL BE BY ELECTRICAL CONTRACTOR U.N.O. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN
- ALL MULTI-WIRE BRANCH CIRCUITS SHALL ORIGINATE FROM THE PANELBOARD, THE GROUNDED AND UNGROUNDED CONDUCTORS SHALL BE GROUPED WITHIN THE PANELBOARD AND THEY SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS. ARTICLE 210.4 OF THE 2022 C.E.C.
- INSTALLATION AND USE LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING.
- ELECTRICAL BOXES NOT UL LISTED OR CANNOT BE IDENTIFIED FOR TYPE OF RATED CONSTRUCTION MUST HAVE PUTTY PADS COMPLETELY SEALED, ALL SIDE OF EACH ELECTRICAL OUTLET BOX.
- ALL CONDUIT RUN ABOVE CEILING TO BE STEEL CONDUIT.
- ALL WALL RECEPTACLES, PLATES, AND HEIGHTS SHALL BE BUILDING STANDARD 18" A.F.F. TO CENTER LINE OF BOX VERTICALLY MOUNTED, U.N.O.
- PRIOR TO SUBMITTING SHOP DRAWINGS, VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURE WITH ALL NECESSARY MOUNTING HARDWARE. SUPPORT AS REQUIRED BY THE CURRENT ADOPTED ISSUE OF THE 2022 CALIFORNIA BUILDING CODE, AS WELL AS ANY LOCAL CODES.
- PRIOR TO SUBMITTING SHOP DRAWINGS, VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURE WITH ALL NECESSARY MOUNTING HARDWARE. SUPPORT AS REQUIRED BY THE CURRENT ADOPTED ISSUE OF THE 2022 CALIFORNIA BUILDING CODE, AS WELL AS ANY LOCAL CODES.
- ALL EMERGENCY BATTERY PACK FIXTURES SHALL BE PROVIDED WITH A CONSTANT HOT CONNECTION TO THE CHARGING LEAD.
- COORDINATE WITH ARCHITECT/CLIENT FOR FIXTURE MOUNTING HEIGHT PRIOR TO INSTALLATION.
- LUMINAIRE DISCONNECT COMPLIANCE PER CEC 410.130(G) IS EXEMPT: EXCEPTION NO. 5: WHERE MORE THAN ONE LUMINAIRE IS INSTALLED AND SUPPLIED BY OTHER THAN MULTIWIRE BRANCH CIRCUIT, A DISCONNECTING MEANS SHALL NOT BE REQUIRED FOR EVERY LUMINAIRE WHEN THE DESIGN OF THE INSTALLATION INCLUDES DISCONNECTING MEANS, SUCH THAT THE ILLUMINATED SPACE CANNOT BE LEFT IN TOTAL DARKNESS.
- REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
- COORDINATE ALL LIGHTING AND CONTROLS COMPONENTS WITH MECHANICAL DIFFUSERS.
- EQUIPMENT DENOTES AS FOLLOWS:
D - DEMOLISH
RL - RELOCATE
E - EXISTING TO REMAIN.
N - PROVIDE NEW.

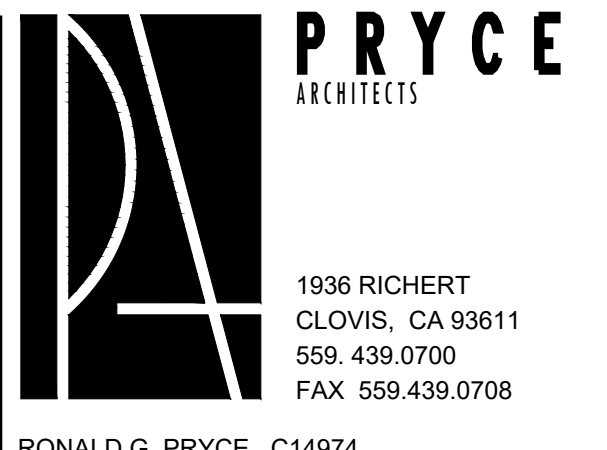
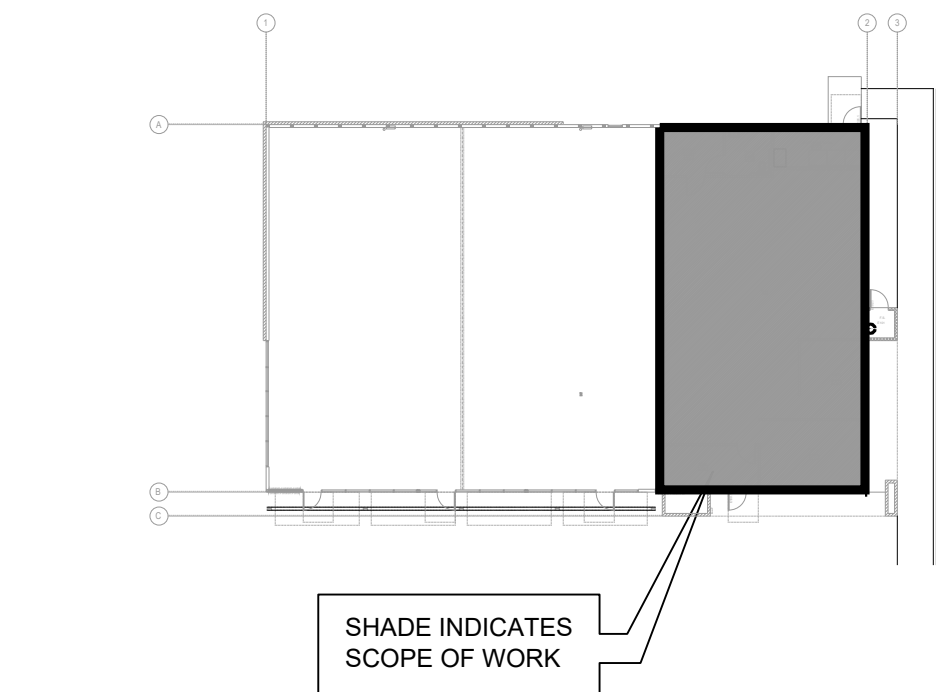
LEGEND



FEEDER SCHEDULE

- PROVIDE 1/2"C., 2#12, 1#12 GRD.
- PROVIDE 1/2"C., 4#12, 1#12 GRD.
- PROVIDE 3/4"C., 6#12, 1#12 GRD.
- PROVIDE 3/4"C., 3#8, 1#10 GRD.
- PROVIDE 1/2"C., 2#10, 1#10 GRD.

KEY PLAN



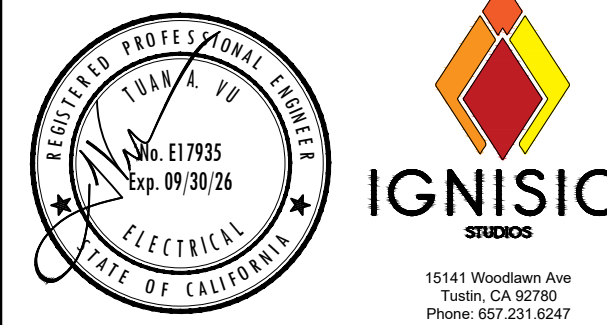
RONALD G. PRYCE, C14974

The firm of Pryce Architects expressly reserves to itself all copyright and other applicable property rights in these plans. These plans are not to be reproduced, changed, or copied in any form or manner whatsoever, nor are they to be assigned to a third party without first obtaining the express written consent and permission of the Architect. In the event of Un-authorized reuse of these plans by a third party, the third party shall hold the Architect harmless, and shall bear the cost of the Architect's legal fees associated with defending and enforcing these rights. These plans are and shall remain the exclusive property of Pryce Architects.

PROJECT

Project Architect Approval:

Consultant:



Project Name:

Tenant improvement for

Hanford Marketplace

Shops 3

2461 E. Lacy Blvd., Suite.

Hanford, CA 93232

SHEET

ELECTRICAL PLANS
NOTES

PROJECT DEVELOPMENT

Date Issued For
- PLAN CHECK

REVISIONS

No. Date Description
1 07/31/25 PLAN CHECK
CORRECTIONS

JOB NO.

DATE

PROJECT COORDINATOR

RON PRYCE

SCALE

AS NOTED

SHEET NO.

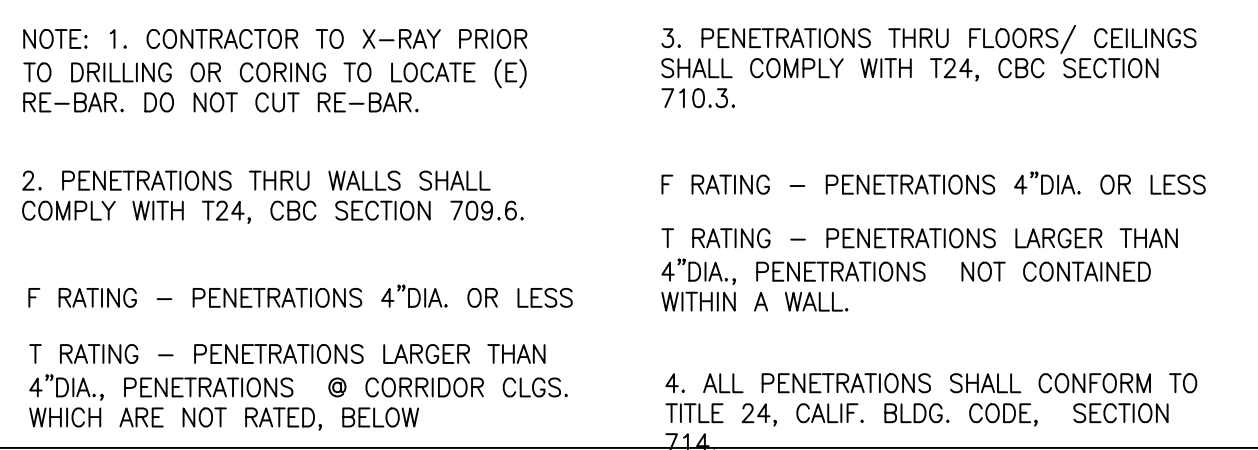
DATE

PROJECT COORDINATOR

RON PRYCE

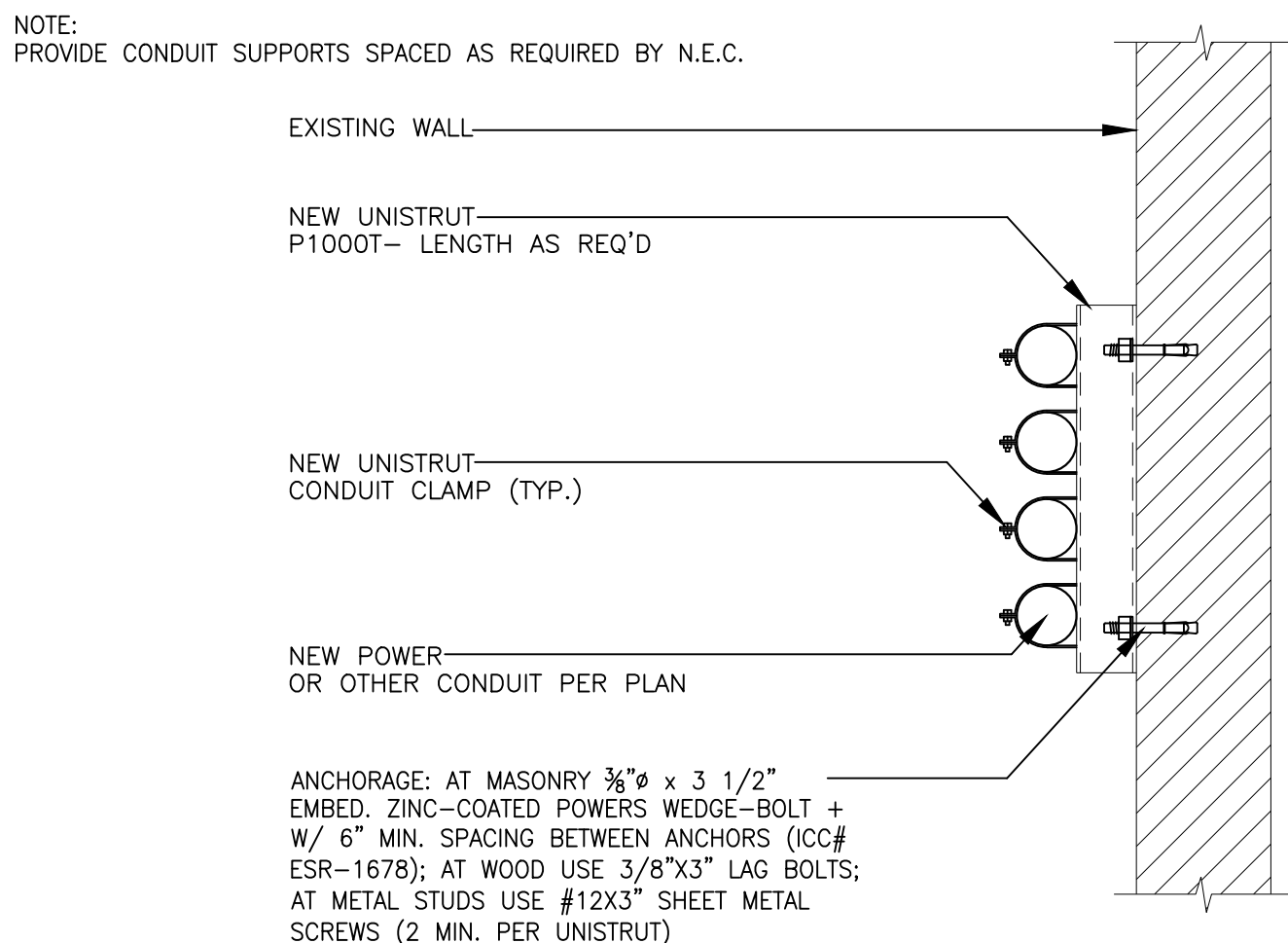
SCALE

AS NOTED



NOTES:

1. PROVIDE NAMEPLATES ON ALL ELECTRICAL EQUIPMENT INCLUDING PANEL BOARDS, DISTRIBUTION BREAKERS, PULL BOXES, GENERATORS, TRANSFER SWITCHES, TRANSFORMERS, DISCONNECTS, ETC.
2. INDICATE EQUIPMENT NAME, VOLTAGE, PHASE, AMPERAGE (FOR PANEL BOARDS, INDICATE RATING OF MAIN CPD), AND FIRST UPSTREAM POWER SOURCE FEEDING UNIT
3. NAMEPLATE SHALL BE ENGRAVED AND USE ADHESIVE ATTACHMENT.



STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCCLTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.
Project Name: Hanford Marketplace Shop 3
Project Address: 2461 E. Lacy Blvd.
Report Page: (Page 1 of 7)
Date Prepared: 6/25/2025

A. GENERAL INFORMATION
01 Project Location (city): Hanford
02 Climate Zone: 13
03 Occupancy Types Within Project (select all that apply):
• Auditorium • Office • Support Areas • All Other Occupancies
04 Total Conditioned Floor Area (ft²): 2,020
05 Total Unconditioned Floor Area (ft²): 0
06 # of Stories (Habitable Above Grade): 1

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.
Scope of Work
Conditioned Spaces
Unconditioned Spaces
01 02 03 04 05
My Project Consists of (check all that apply):
Calculation Method Area (ft²) Calculation Method Area (ft²)
New Lighting System
New Lighting System - Parking Garage
Altered Lighting System
Area Category Method 2020 Area Category Method 0
Total Area of Work (ft²) 2020 0

Generated Date/Time: Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-9799-0625-1181
Schema Version: rev 20220101 Report Generated: 2025-06-25 22:17:14

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCCLTI-E
Project Name: Hanford Marketplace Shop 3
Report Page: (Page 4 of 7)
Date Prepared: 6/25/2025

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
Area Level Controls
04 05 06 07 08 09 10 11 12
Area Description Complete Building or Area Category Primary Function Area Manual Area Controls 130.1(a) / 160.5(b)4A Multi-Level Controls 130.1(b) / 160.5(b)4B Shut-Off Controls 130.1(c) / 160.5(b)4C Occupancy Sensor NA: Rm < 24sf Glazing NA: Rm < 24sf Glazing Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D Secondary Daylighting 130.1(d) / 160.5(b)4D Interlocked Systems 140.6(a)1 / 170.2(e)2A Field Inspector
Work Room Office (<=250 square feet) Readily Accessible NA: Enclosed area <100SF Occupancy Sensor NA: Rm < 24sf Glazing NA: Rm < 24sf Glazing No Pass Fail
Play Area Sports Arena Class IV Readily Accessible Dimmer Auto. Time Switch NA: General Lit < 120W NA: General Lit < 120W No Pass Fail
Viewing Area Audience Seating Area Readily Accessible Dimmer Auto. Time Switch NA: Rm < 24sf Glazing NA: Rm < 24sf Glazing No Pass Fail
Restroom Restroom Readily Accessible NA: Restrooms Occupancy Sensor NA: Rm < 24sf Glazing NA: Rm < 24sf Glazing No Pass Fail
13
Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.
Conditioned Spaces
01 02 03 04 05 06
Area Description Complete Building or Area Category Primary Function Area Allowed Density (W/ft²) Area (ft²) Allowed Wattage (Watts) Additional Allowance / Adjustment Area Category PAF
Restroom 0.65 95 61.8 No No
Play Area Sports Arena Class IV 0.75 1,705 1,278.8 No No

Generated Date/Time: Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-9799-0625-1181
Schema Version: rev 20220101 Report Generated: 2025-06-25 22:17:14

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCCLTI-E
Project Name: Hanford Marketplace Shop 3
Project Address: 2461 E. Lacy Blvd.
Report Page: (Page 7 of 7)
Date Prepared: 6/25/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Tuan A. Vu
Signature Date: 2025-06-25
Address: 15141 Woodlawn Ave
City/State/Zip: Tustin CA 92780
Responsible Person's Declaration Statement
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: Tuan A. Vu, P.E.
Signature Date: 2025-06-25
Address: 15141 Woodlawn Ave
City/State/Zip: Tustin CA 92780

Generated Date/Time: Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-9799-0625-1181
Schema Version: rev 20220101 Report Generated: 2025-06-25 22:17:14

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCCLTI-E
Project Name: Hanford Marketplace Shop 3
Report Page: (Page 2 of 7)
Date Prepared: 6/25/2025

C. COMPLIANCE RESULTS
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.
Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)
Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)
01 02 03 04 05 06 07 08 09
Complete Building 140.6(c)1 Area Category 140.6(c)2G / 170.2(e)4 Tailored Category Additional 140.6(c)3 / 170.2(e)4B Total Allowed (Watts) PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B Total Adjusted (Watts) *includes Adjustments
(See Table I) (See Table I) (See Table K) (See Table F) (See Table F)
Conditioned 1,464.1 0 1,464 2 543 0 543
Unconditioned
Controls Compliance (See Table H for Details)
Rated Power Reduction Compliance (See Table Q for Details)

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-9799-0625-1181
Schema Version: rev 20220101 Report Generated: 2025-06-25 22:17:14

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCCLTI-E
Project Name: Hanford Marketplace Shop 3
Report Page: (Page 5 of 7)
Date Prepared: 6/25/2025

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Viewing Area Audience Seating Area 0.5 130 65 No No
Office Office (<=250 square feet) 0.65 90 58.5 No No
TOTALS: 2,020 1,464.1 See Tables I, J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Generated Date/Time: Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-9799-0625-1181
Schema Version: rev 20220101 Report Generated: 2025-06-25 22:17:14

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCCLTI-E
Project Name: Hanford Marketplace Shop 3
Report Page: (Page 3 of 7)
Date Prepared: 6/25/2025

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table F. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.
Designed Wattage: Conditioned Spaces
01 02 03 04 05 06 07 08 09 10
Name or Item Tag Complete Luminaire Description Modular (Track) Fixture Small Aperture & Color Change Watts per luminaire² How is Wattage determined Total Number of Luminaires Excluded per 140.6(a)3 / 170.2(e)4C Design Watts Field Inspector
A 25.5w LED 4' Surface Wraparound No NA 25.5 Mfr. Spec 1 No 25.5 Pass Fail
B/BE 39.8w LED 2x4 No NA 39.8 Mfr. Spec 13 No 517.4 Pass Fail
Total Designed Watts: CONDITIONED SPACES 543

FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
This table includes lighting controls for conditioned and unconditioned spaces.
Building Level Controls
01 02 03
Mandatory Demand Response 110.12(c) Shut-off controls 130.1(c) / 160.5(b)4C Field Inspector
NA < 4,000W subject to multilevel Whole Building Auto Time Switch Pass Fail

Generated Date/Time: Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-9799-0625-1181
Schema Version: rev 20220101 Report Generated: 2025-06-25 22:17:14

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCCLTI-E
Project Name: Hanford Marketplace Shop 3
Report Page: (Page 6 of 7)
Date Prepared: 6/25/2025

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

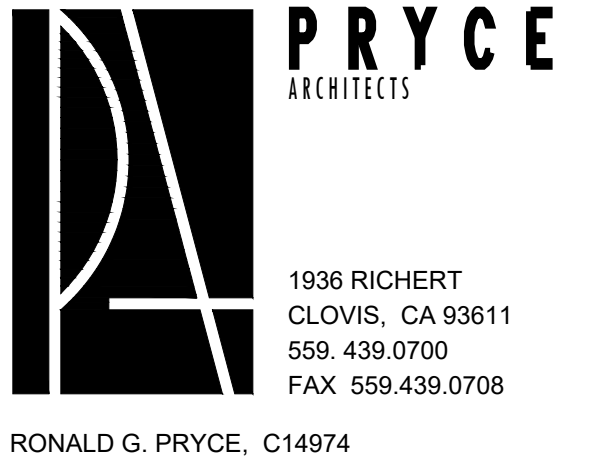
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online
Form/Title
NRCCLTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no NRCA forms required for this project.

Generated Date/Time: Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-9799-0625-1181
Schema Version: rev 20220101 Report Generated: 2025-06-25 22:17:14



The firm of Pryce Architects expressly reserves to itself all copyright and other applicable property rights in these plans. These plans are not to be reproduced, changed, or copied in any form or manner whatsoever, nor are they to be assigned to a third party without first obtaining the express written consent and permission of the Architect. In the event of Un-authorized reuse of these plans by a third party, the third party shall hold the Architect harmless, and shall bear the cost of the Architect's legal fees associated with defending and enforcing these rights. These plans are and shall remain the exclusive property of Pryce Architects.

PROJECT

Project Architect Approval:



Project Name:

Tenant improvement for
Hanford Marketplace
Shops 3
2461 E. Lacy Blvd., Suite.
Hanford, CA 93232

SHEET
T24 COMPLIANCE
FORMS

PROJECT DEVELOPMENT	
Date	Issued For
-	PLAN CHECK

REVISIONS		
No.	Date	Description
△	07/31/25	PLAN CHECK CORRECTIONS

JOB NO. SHEET NO.
DATE
PROJECT COORDINATOR
RON PRYCE
SCALE OF
AS NOTED

E5.0

Operational Statement: **Paradise Playtown**

Hours of Operation:

Monday 12:00 pm - 7:00 pm or 9:00 am - 5:00 pm

Tuesday - Sunday 9:00 am - 7:00 pm

***** We're still finalizing our business hours so we can make sure they're perfect for little ones ages 0-5 and their families *****

Paradise Playtown is an indoor playground specially designed for children ages 0–5.

We provide a safe, fun, and engaging space where little ones can explore, play, and learn.

What We Offer:

- **Open Play / One-Hour Play Sessions** – Customers can pay for all-day access with re-entry. Play sessions are scheduled in one-hour blocks to ensure every child has a chance to enjoy our space.
- **Memberships** – Pay monthly for unlimited visits for your child.
- **Punch Cards** – Purchase 10 visits without committing to a monthly subscription.
- **Birthday Party Area Rental** – Reserve a party area for 2 hours during open play hours.
- **Private Party Package** – Rent the entire playground exclusively for your guests.

Special Programs & Events:

- **Monthly Fun Events** – Fun activities to bring families together like meet & greet with their favorite character.
- **Designated Play Hours for Special Needs & Disabled Kids** – A safe and comfortable environment for every child to play and enjoy.

Additional Info:

- Pre-packaged snacks and drinks available for purchase.
- Services can be booked online or in person.
- All guests must sign a waiver before playing.
- Adult supervision required at all times.
- Children will receive a wristband with their name, date, and time for re-entry or to track their one-hour session.
- Daily ticket limits online to maintain a safe and fun atmosphere.

Notice of Exemption 2025-74

To: ☐ Office of Planning and Research
P.O. Box 3044, Room 212
Sacramento, CA 95812-3044

☒ County Clerk
County of Kings
Kings County Government Center
Hanford, CA 93230

From: City of Hanford
317 North Douty Street
Hanford, CA 93230

Project Title: Conditional Use Permit 0050-25

Project Location – 2461 E. Lacey Blvd. Suite 109 (APN 016-320-014)

Project Location – City: Hanford **Project Location – County:** Kings County

Description of Nature, Purpose and Beneficiaries of Project: Conditional Use Permit No. 0050-25: a request to operate an indoor playground for children aged 0-5 within an existing 2,019-square-foot suite in the C-R Regional Commercial zone district.

Name of Public Agency Approving Project: City of Hanford, Planning Division

Name of Person or Agency Carrying Out Project/Project Applicant: Keil Joson

Exempt Status: **(check one)**

- ☐ Ministerial (Sec. 21080(b)(1); 15268);
☐ Declared Emergency (Sec. 21080(b)(3); 15269 (a));
☐ Emergency Project (Sec. 21080(b)(4); 15269(b)(c));
☒ Categorical Exemption: State type and section number: 15301 Existing Facilities
☐ Statutory Exemption. State code number:

Reasons why project is exempt:

The City of Hanford determined the project to be exempt from environmental review pursuant to Section 15301 of the California Environmental Quality Act (CEQA) Guidelines. Section 15301 states that Class 1 exemptions consist of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use. This project involves the permitting of an existing private structure, involving negligible or no expansion.

Lead Agency

Contact Person: Mark Manha Area Code/ Telephone: (559) 585-2583

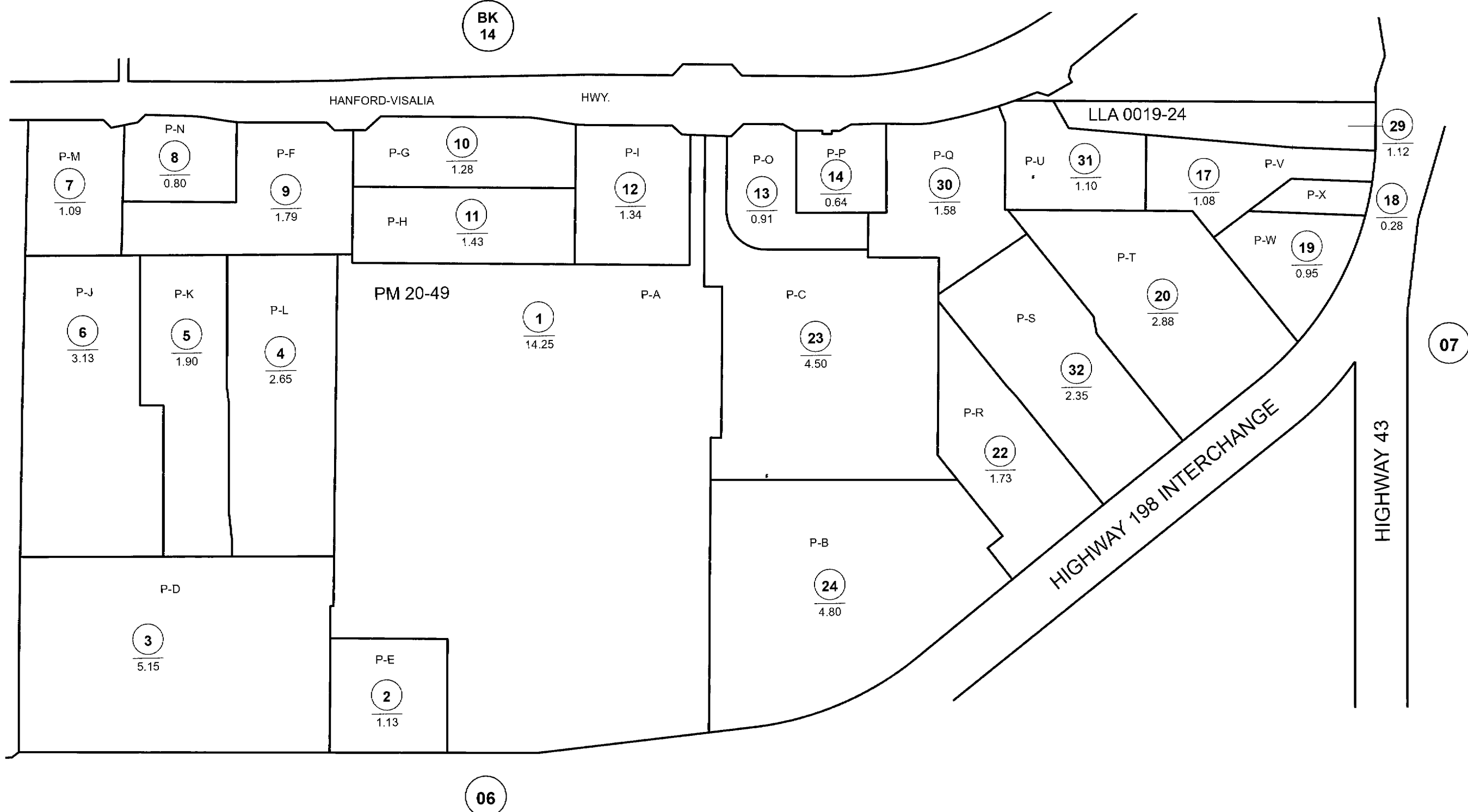
Signature: _____ Date: October 14, 2025 Title: Associate Planner

☒ Signed by Lead Agency Date received for filing at OPR: _____
☐ Signed by Applicant

THIS MAP IS FOR ASSESSMENT PURPOSES ONLY. IT IS NOT TO BE CONSTRUED AS A GUARANTEE OF LEGAL OWNERSHIP OF DIVISIONS. FOR PURPOSES OF ZONING OR SEPTIC PERMITS, REQUEST A ZONING MAP.

KINGS COUNTY ASSESSOR'S MAP

16-32



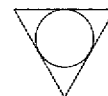
Copyright © 1997, Kings County Assessor's Office
All Rights Reserved



LAND PRESERVE



NON-RENEWAL



FARMLAND SECURITY


$$1'' = 200'$$

1''

Page 67 of 819



AGENDA STAFF REPORT

MEETING DATE: 10/14/2025	AGENDA SECTION: PUBLIC HEARING
---------------------------------	---------------------------------------

SUBJECT:

Conditional Use Permit No. 0053-25: a request by O7 Ink Lounge to relocate an existing tattoo studio into an existing 1,110-square-foot suite in the MX-C Corridor Mixed Use zone district. The project is located at 126 N. 11th Ave. (APN 012-271-035).

STAFF RECOMMENDATION

Staff recommends that the Planning Commission:

1. Adopt Resolution No. 2025-29, approving Conditional Use Permit No. 0053-25.

RECOMMENDED MOTION

1. I move to adopt Resolution No. 2025-29, approving Conditional Use Permit No. 0053-25.

PROJECT DESCRIPTION

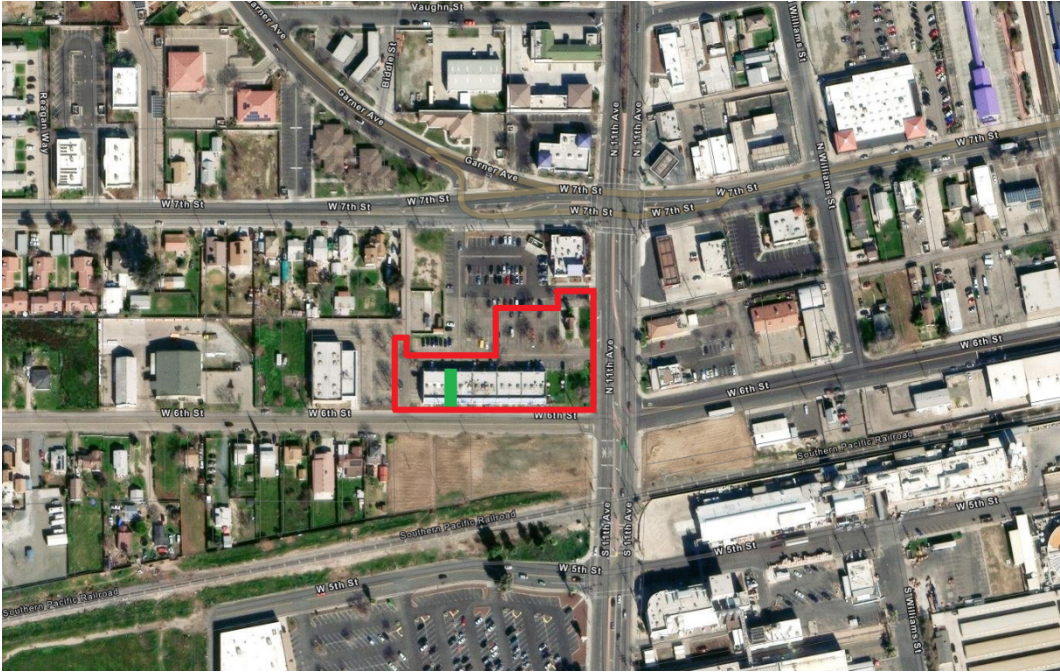
The project is a request by O7 Ink Lounge to relocate an existing tattoo studio into an existing 1,110-square-foot suite in the MX-C Corridor Mixed Use zone district. As shown on the plans provided (see **Attachment 1**), the suite will include a waiting area at the suite entrance, four work stations, an art supply room, a storage room, a break room, and a restroom. The business will be located entirely inside the building and no activities will occur outside of the enclosed permanently fixed structure. There is no construction proposed with this Conditional Use Permit.

O7 Ink Lounge is located at 612 W. Seventh Street, within the MX-D Downtown Mixed Use zone district, and offers tattooing and piercing services. The relocation of this business from the MX-D Downtown Mixed Use zone district to the MX-C Corridor Mixed Use zone requires the approval of a Conditional Use Permit. The business was permitted as a tattooing or body art use at the time of business license establishment in 2019. The business operations will remain the same at the new location.

Project Location

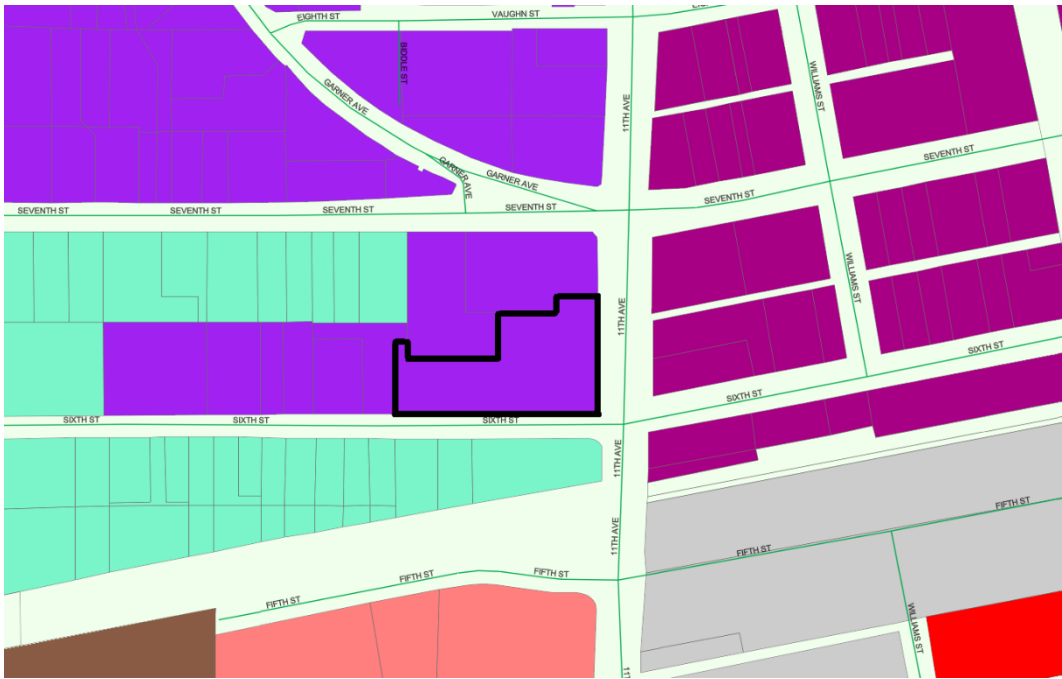
The proposed project is located at 126 N. 11th Ave. (APN 012-271-035) (see Figure 1, below) within the existing Hanford Plaza shopping center at the southwest corner of Seventh Street and 11th Avenue. The site was formerly utilized as a money transfer and money order business. The General

Figure 1:
Land Use (property outlined in red, suite outlined in green)



The General Plan designates the property as Corridor Mixed Use (see Figure 2, below). In accordance with General Plan Policy L65, Hanford shall establish the Corridor Mixed Use land use designation to promote a mix of commercial, office, and multifamily residential uses along transportation corridors at a scale compatible with adjacent residential neighborhood, with the intent of creating a pedestrian-friendly environment that encourages walking between uses. The proposal supports this policy, as it maintains a mix of uses along transportation corridors with the intent to maintain a pedestrian-friendly environment that encourages walking between uses. In accordance with General Plan Policy L66, Hanford shall define the uses allowed in the Corridor Mixed Use land use designation to include small- and medium-scale commercial providing primarily day-to-day goods and services, office, and multi-family dwellings along with horizontal and vertical mixed use developments that include these uses. Typical uses include duplexes, townhomes, apartments, markets, small retail shops, eating establishments, offices, service stations, medical and dental offices, convenience stores, dry cleaning and laundry services, beauty salons, and other similar uses. Both vertical and horizontal mixed-use developments are encouraged. The proposal supports this policy, as it is a small commercial business similar to other existing permitted uses in the MX-C Corridor Mixed Use zone district.

Figure 2:
General Plan Designation (property outlined in bold)
Corridor Mixed Use



Zoning Designation

The property is zoned MX-C Corridor Mixed Use, which corresponds with the General Plan designation (see Figure 3, below). The applicant seeks to allow a tattoo studio in the MX-C Corridor Mixed Use zone district. A tattoo studio is classified as a "Tattooing or body art" use in the Hanford Zoning Ordinance. According to the Commercial, Office, and Industrial Zone Use Table, presented in Table 17.08.030 of the Hanford Municipal Code, tattooing or body art requires a Conditional Use Permit in the MX-C Corridor Mixed Use zone district (see Figure 4, below). "Tattooing or body art" means an establishment that provides tattooing, body piercing, and other forms of body art allowed by the California Health and Safety Code, except that body art involving ear piercing and permanent cosmetic application are not included and are considered ancillary uses in other establishments. This use does not include any use that is more specifically defined in Section 17.62.020.

Figure 3:
Zoning Designation (property outlined in bold)
MX-C Corridor Mixed Use

dimension requirement for the MX-C Corridor Mixed Use zone district.

17.26.050 Coverage

The maximum coverage of the lot shall be determined by the combined building setback area requirements, open space requirements, and off-street parking and loading requirements. All required building setbacks, landscaping, off-street parking, and loading requirements were evaluated and mandated as part of the plan review process.

17.26.060 Building Setback Area

No structure is permitted to be placed within a building setback area.

Front-Building Setback

In the MX-C Corridor Mixed Use zone district, the front building setback area shall be 15 feet. The building setback is over 15 feet from the front property line along 11th Avenue, which satisfies the requirement of the MX-C Corridor Mixed Use zone district.

Side-Building Setback

The side building setback area shall be zero feet, except where the side lot line abuts a public street or an R-L, R-M, R-H, OR, O, PF, AP, or CO zone district, then the side building setback shall be 15 feet. Since the side lot line abuts a public street along Sixth Street, the side setback area requirement is 15 feet. The building setback is 10 feet from the street-side property line along Sixth Street, which does not meet the front setback requirement. However, the structure is considered a legally existing, nonconforming structure. According to Section 17.90.040(A) of the Hanford Municipal Code, “a structure shall be deemed nonconforming if it was lawfully erected prior to the adoption or amendment of this title, but which now does not meet all of the provisions, standards, and requirements of this title applicable to structures.” The site was developed concurrently with the development of the shopping center, proposed under Site Plan Review No. 83-19. A 10-foot setback for this building along Sixth Street was approved under Site Plan Review No. 83-19. The applicant does not propose to bring the site into further non-conformance. As an existing structure, the building may remain, as is.

Rear-Building Setback

The rear building setback area may be zero feet from the rear lot line, except where the rear lot line abuts a public street or an R-L, R-M, R-H, OR, O, PF, AP, or CO zone district, then the rear building setback shall be 15 feet. Since the rear lot line is not adjacent to a public street or any of the stated zone districts, the rear setback area requirement is zero feet. The rear setback is over 15 feet from the rear lot line, which satisfies the requirement for the MX-C Corridor Mixed Use zone district.

17.26.070 Distances Between Structures

The minimum distance between a structure used solely for residential purposes and another structure shall be 10 feet, except as provided by the building code. There are no residential structures on site.

17.26.080 Height of Structures

The maximum height of structures in the MX-C Corridor Mixed Use zone district is 50 feet. The existing building is a single-story structure. There are no changes proposed to the existing building height. The single-story structure does not exceed the zone district height limitations.

17.26.090 Driveways

In the MX-C Corridor Mixed Use zone district, wherever possible, developments shall share driveways to minimize the number of driveways on public streets. The site is fully developed and is located within an existing integrated shopping center with cross access. There are two existing driveways on site, with a total of five ingress and egress locations along Sixth Street, 11th Avenue, and Seventh Street for the entire shopping center. There are no changes proposed to the existing driveways; therefore, the driveway requirements have been satisfied.

17.26.100 Off-Street Parking

There are approximately 243 parking spaces provided for the shopping center. In accordance with Section 17.54.040, all integrated shopping centers shall provide parking at a ratio of one space per 350 square feet of building space. The building square footage is approximately 29,320 square feet. Based on the ratio, the current parking total exceeds the requirement.

Calculation:

$29,320 \text{ square feet} \div 350 \text{ square feet} = 84 \text{ parking spaces minimum}$

There are approximately 80 parking spaces provided on this lot. In accordance with Section 17.54.040, all integrated shopping centers shall provide parking at a ratio of one space per 350 square feet of building space. The square footage of the building on site is approximately 15,000 square feet. Based on the ratio, the current parking total exceeds the requirement.

Calculation:

$15,000 \text{ square feet} \div 350 \text{ square feet} = 43 \text{ parking spaces minimum}$

The proposed business will occupy approximately 1,110 sq. ft. The applicant does not propose an increase to the existing square footage; therefore, additional parking is not required. The current number of parking spaces exceeds the number of parking spaces required.

17.26.110 Usable Open Space

New developments with a site area over one acre shall provide a common outdoor, shaded sitting area for use by customers. This is not a new development; therefore, no additional usable open space is required.

17.26.120 Landscaping

Landscaping shall be provided and permanently maintained in a setback area not less than 15 feet from a lot line adjoining a street. All building setback areas and open space areas required by this title that are visible from a public right-of-way shall be landscaped. Landscaping is provided within the 10-foot setback area along Sixth Street, which does not meet the landscaping requirement of 15 feet from a lot line adjoining a street. Additional space for landscaping along the street is limited due to the location of the existing structure within the setback area. However, the structure is considered a

legally existing, nonconforming structure. According to Section 17.90.040(A) of the Hanford Municipal Code, “a structure shall be deemed nonconforming if it was lawfully erected prior to the adoption or amendment of this title, but which now does not meet all of the provisions, standards, and requirements of this title applicable to structures.” The site was developed concurrently with the development of the shopping center, proposed under Site Plan Review No. 83-19. 10 feet of landscaping for this site along Sixth Street was approved under Site Plan Review No. 83-19. The applicant does not propose to bring the site into further non-conformance. As existing, the landscaping may remain, as is.

17.26.130 Screening, Fences, and Walls

Properties in the MX-C Corridor Mixed Use zone district shall meet the screening, fences, and walls standards of Section 17.26.130 of the Hanford Municipal Code. A block wall with a minimum height of seven feet shall be provided along any side or rear lot line that abuts an R-L, R-M, R-H, OR, PF, AP, or CO zone district. No portion of the property is adjacent to any of the stated zone districts; therefore, no block wall is required along any lot lines. No fence or wall shall be placed in front of or within any landscaped area located next to a street. There are no existing or proposed fences or walls within any landscaped area located adjacent to the street. No hedge, shrub, fence, or wall exceeding the three (3) feet in height, or four (4) feet in height if the upper one (1) foot is fifty percent (50%) or more open shall be planted, placed, or maintained within the twenty-five (25) feet corner sight triangle of a corner lot, or along a front or street side property line where the hedge, shrub, fence, or wall creates a traffic or pedestrian hazard as determined by the Community Development Director. There is no existing or proposed fencing along a front or street side property line. The project satisfies all screening, fence, and wall regulations for the MX-C Corridor Mixed Use zone district.

17.26.140 Signs

All signage shall meet the standards of Hanford Municipal Code Chapter 17.56. For permanent building signs, there is no limit to the number of signs allowed for each business; the allowed square footage per building frontage is cumulative. Establishments with a primary building frontage less than 300 feet may have a permanent sign with a size of two square feet per one lineal foot up to a maximum of 350 square feet along the primary frontage, with 50 square feet allowed regardless of frontage length. Secondary building frontages may have a permanent sign with a size of one square foot per lineal foot up to a maximum of 200 square feet per secondary frontage, with 35 square feet allowed regardless of frontage length. For permanent freestanding signs, a maximum of one sign is allowed per establishment. The face of the sign may be a maximum of 40 square feet, with a height of: six feet if set back 10 feet from the property line, five feet if set back five feet from the property line, and four feet if set back zero feet from the property line. An additional freestanding sign is permitted on sites within an integrated shopping center. This additional sign may be up to 350 square feet in size, with a maximum height not greater than 1.5 times the average height of the building.

Signage requires a separate application and will be evaluated at the time of submittal.

17.26.150 General Provisions and Standards

In the MX-C Corridor Mixed Use zone district, all businesses, services, and processes shall be conducted entirely within a completely enclosed permanently fixed structure, except where specifically permitted by this title. The proposed business will operate entirely within the existing building.

All requirements of the MX-C Corridor Mixed Use zone district, prescribed by Chapter 17.26 of the Hanford Municipal Code, are satisfied, except for those items that are legally non-conforming.

FINDINGS FOR APPROVAL: CONDITIONAL USE PERMIT NO. 0053-25

Conditional Use Permit No. 0053-25

In taking action on a Conditional Use Permit, the Planning Commission must make the appropriate findings, in accordance with Section 17.80.030 of the Hanford Municipal Code:

1. The proposed use would not impair the integrity and character of the zoning district in which it is to be located;

ANALYSIS: The proposed use will occupy an existing building and not impair the integrity and character of the MX-C Corridor Mixed Use zone district. The site is consistent with the regulations set forth in Chapter 17.26 of the Hanford Municipal Code for the MX-C Corridor Mixed Use zone district, except for those items that are legally existing, non-conforming, but will not be brought into further non-conformance. A tattoo studio is classified as a tattooing or body art use, which is listed as a permitted use with the approval of a Conditional Use Permit in the MX-C Corridor Mixed Use zone district, as prescribed in the Land Use Table in Section 17.08.030. The existing business operates within walking distance of this location. The business will operate at the new location in the same manner as the existing location.

2. The proposed use would be compatible with existing land uses and future permitted land uses within the zoning district in which the proposed use is to be located;

ANALYSIS: The proposed use is compatible with existing and future permitted land uses in the MX-C Corridor Mixed Use zone district. The business will occupy an existing suite within an integrated shopping center. The site is consistent with the regulations set forth in Chapter 17.26 of the Hanford Municipal Code for the MX-C Corridor Mixed Use zone district, except for those items that are legally existing, non-conforming, but will not be brought into further non-conformance. A tattooing or body art use is listed as a permitted use, with the approval of a Conditional Use Permit, in the MX-C Corridor Mixed Use zone district, as prescribed in the Land Use Table in Section 17.08.030. Conditions of approval will ensure public health, safety, and welfare are maintained for the use and surrounding uses.

3. The proposed use is consistent with the General Plan;

ANALYSIS: In accordance with General Plan Policy L65, Hanford shall establish the Corridor Mixed Use land use designation to promote a mix of commercial, office, and multifamily residential uses along transportation corridors at a scale compatible with adjacent residential neighborhood, with the intent of creating a pedestrian-friendly environment that encourages walking between uses. The proposal supports this policy, as it maintains a mix of uses along transportation corridors with the intent to maintain a pedestrian-friendly environment that encourages walking between uses. In accordance with General Plan Policy L66, Hanford shall define the uses allowed in the Corridor Mixed Use land use designation to include small- and medium-scale commercial providing primarily day-to-day goods and services, office, and multi-family dwellings along with horizontal and vertical mixed use developments that include these uses. Typical uses include duplexes, townhomes, apartments, markets, small retail shops, eating establishments, offices, service stations, medical and dental offices, convenience stores, dry cleaning and laundry services, beauty salons, and other similar uses. Both vertical and horizontal mixed-use developments are encouraged. The proposal

supports this policy, as it is a small commercial business similar to other existing permitted uses in the MX-C Corridor Mixed Use zone district.

4. There will not be significant effects upon the quality of the environment and natural resources;

ANALYSIS: This project is categorically exempt from further environmental review, as per Section 15301 Existing Facilities of the California Environmental Quality Act (CEQA) Guidelines. A Notice of Exemption has been prepared and is attached as **Attachment 2**.

5. The proposed location, size, design, and operating characteristics of the proposed use would not be detrimental to the public interests, health, safety, convenience, or welfare of the city and that any incompatible impacts of the proposed use are mitigated by conditions of approval.

ANALYSIS: This application has been reviewed by various City departments and evaluated for conformity with the requirements of Chapter 17.26 of the Hanford Municipal Code. The use of a tattoo studio is compliant with the Hanford Municipal Code. Any improvements required for public health, safety, and welfare have been applied to the project as conditions of approval in the resolution.

PUBLIC COMMENTS

A Notice of Public Hearing for a Conditional Use Permit was noticed in the local newspaper on October 3, 2025 and mailed to property owners within 300 feet of the project site on October 2, 2025. No comments were received, as of the date of preparation of this report.

ENVIRONMENTAL ASSESSMENT

This project is categorically exempt from further environmental review, as per Section 15301 Existing Facilities of the California Environmental Quality Act (CEQA) Guidelines. There are no exceptions to this exemption, as per Section 15300.2 Exceptions of the California Environmental Quality Act (CEQA) Guidelines. A Notice of Exemption has been prepared and is attached as **Attachment 2**.

CONDITIONS OF APPROVAL

Project approval shall be subject to the conditions below, as well as conditions from the Building Division in the resolution:

Conditional Use Permit No. 0053-25:

1. Use of the site shall comply with the uses listed as permitted, permitted with an administrative approval, conditionally permitted, or temporarily permitted in the land use table presented in Chapter 17.08 of the Hanford Municipal Code. The proposed use shall operate in conformance with the "tattooing or body art" definition in Chapter 17.96 of the Hanford Zoning Ordinance. Modification of the use of the site may require an amendment to this application.
2. No expansion of the use or structures which would tend to increase the projected scale of operations beyond the scope and nature described in this Conditional Use Permit shall be permitted except upon application for, and approval of, modification of this application according to all procedures and requirements thereof.
3. Approval of this project does not exempt compliance with all applicable sections of the Zoning

Ordinance, Public Works Improvement Standards, fees, or other City Ordinances.

4. Any site construction and operations shall comply with all applicable sections of the California Building and Fire Codes.

5. The use shall be in compliance with all requirements of the Kings County Department of Public Health and the Safe Body Art Act.

RECOMMENDATION

Staff recommends that the Planning Commission:

1. Adopt Resolution No. 2025-29, approving Conditional Use Permit No. 0053-25.

Applicant:

Erely Ochoa
612 W. Seventh St.
Hanford, CA 93230

Property Owner:

Hanford Plaza LLC
P.O Box 754
Corte Madera, CA 94976

ATTACHMENTS:

1. Resolution No. 2025-29
2. Attachment 1 - Floor Plan
3. Attachment 2 - Notice of Exemption No. 2025-75
4. Assessor's Map

RESOLUTION NO. 2025-29

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF HANFORD APPROVING CONDITIONAL USE PERMIT NO. 0053-25, A REQUEST BY O7 INK LOUNGE TO RELOCATE AN EXISTING TATTOO STUDIO INTO AN EXISTING 1,110-SQUARE-FOOT SUITE IN THE MX-C CORRIDOR MIXED USE ZONE DISTRICT. THE PROJECT IS LOCATED AT 126 N. 11TH AVE. (APN 012-271-035).

At a regular meeting of the City of Hanford Planning Commission duly called and held on October 14, 2025 on motion of Commissioner _____, seconded by Commissioner _____, and duly carried, the following resolution was adopted:

WHEREAS, Conditional Use Permit No. 0053-25, a request by O7 Ink Lounge to relocate an existing tattoo studio into an existing 1,110-square-foot suite in the MX-C Corridor Mixed Use zone district, as shown in **Exhibit A**, has been reviewed by the Planning Commission of the City of Hanford in accordance with Title 17.80 of the Hanford Municipal Code; and

WHEREAS, the project is located at 126 N. 11th Ave. (APN 012-271-035); and

WHEREAS, staff, the various governmental departments, and the Planning Commission have given careful consideration to this conditional use permit and have made recommendations thereon; and

WHEREAS, the project is exempt from environmental review, per Section 15301 Existing Facilities of the California Environmental Quality Act of the California Environmental Quality Act (CEQA) Guidelines and a Notice of Exemption has been prepared; and

WHEREAS, on the basis of the facts and evidence provided in the staff report and the written and oral evidence presented at the public hearing, the Planning Commission hereby makes the following findings pursuant to Section 17.80.030 of the Hanford Municipal Code:

1. The proposed use would not impair the integrity and character of the zoning district in which it is to be located;

ANALYSIS: The proposed use will occupy an existing building and not impair the integrity and character of the MX-C Corridor Mixed Use zone district. The site is consistent with the regulations set forth in Chapter 17.26 of the Hanford Municipal Code for the MX-C Corridor Mixed Use zone district, except for those items that are legally existing, non-conforming, but will not be brought into further non-conformance. A tattoo studio is classified as a tattooing or body art use, which is listed as a permitted use with the approval of a Conditional Use Permit in the MX-C Corridor Mixed Use zone district, as prescribed in the Land Use Table in Section 17.08.030. The existing business operates within walking distance of this location. The business will operate at the new location in the same manner as the existing location.

2. The proposed use would be compatible with existing land uses and future permitted land uses within the zoning district in which the proposed use is to be located;

ANALYSIS: The proposed use is compatible with existing and future permitted land uses in the MX-C Corridor Mixed Use zone district. The business will occupy an existing suite within an integrated shopping center. The site is consistent with the regulations set forth in Chapter

17.26 of the Hanford Municipal Code for the MX-C Corridor Mixed Use zone district, except for those items that are legally existing, non-conforming, but will not be brought into further non-conformance. A tattooing or body art use is listed as a permitted use, with the approval of a Conditional Use Permit, in the MX-C Corridor Mixed Use zone district, as prescribed in the Land Use Table in Section 17.08.030. Conditions of approval will ensure public health, safety, and welfare are maintained for the use and surrounding uses.

3. The proposed use is consistent with the General Plan;

ANALYSIS: In accordance with General Plan Policy L65, Hanford shall establish the Corridor Mixed Use land use designation to promote a mix of commercial, office, and multifamily residential uses along transportation corridors at a scale compatible with adjacent residential neighborhood, with the intent of creating a pedestrian-friendly environment that encourages walking between uses. The proposal supports this policy, as it maintains a mix of uses along transportation corridors with the intent to maintain a pedestrian-friendly environment that encourages walking between uses. In accordance with General Plan Policy L66, Hanford shall define the uses allowed in the Corridor Mixed Use land use designation to include small- and medium-scale commercial providing primarily day-to-day goods and services, office, and multi-family dwellings along with horizontal and vertical mixed use developments that include these uses. Typical uses include duplexes, townhomes, apartments, markets, small retail shops, eating establishments, offices, service stations, medical and dental offices, convenience stores, dry cleaning and laundry services, beauty salons, and other similar uses. Both vertical and horizontal mixed-use developments are encouraged. The proposal supports this policy, as it is a small commercial business similar to other existing permitted uses in the MX-C Corridor Mixed Use zone district.

4. There will not be significant effects upon the quality of the environment and natural resources;

ANALYSIS: This project is categorically exempt from further environmental review, as per Section 15301 Existing Facilities of the California Environmental Quality Act (CEQA) Guidelines. A Notice of Exemption has been prepared.

5. The proposed location, size, design, and operating characteristics of the proposed use would not be detrimental to the public interests, health, safety, convenience or welfare of the city and that any incompatible impacts of the proposed use are mitigated by conditions of approval.

ANALYSIS: This application has been reviewed by various City departments and evaluated for conformity with the requirements of Chapter 17.26 of the Hanford Municipal Code. The use of a tattoo studio is compliant with the Hanford Municipal Code. Any improvements required for public health, safety, and welfare have been applied to the project as conditions of approval in the resolution.

THEREFORE, BE IT RESOLVED that Conditional Use Permit No. 0053-25 be approved, subject to the conditions presented in **Exhibit B**, and the conditions below:

1. Use of the site shall comply with the uses listed as permitted, permitted with an administrative approval, conditionally permitted, or temporarily permitted in the land use table presented in Chapter 17.08 of the Hanford Municipal Code. The proposed use shall operate in conformance with the "tattooing or body art" definition in Chapter 17.96 of the

Hanford Zoning Ordinance. Modification of the use of the site may require an amendment to this application.

2. No expansion of the use or structures which would tend to increase the projected scale of operations beyond the scope and nature described in this Conditional Use Permit shall be permitted except upon application for, and approval of, modification of this application according to all procedures and requirements thereof.
3. Approval of this project does not exempt compliance with all applicable sections of the Zoning Ordinance, Public Works Improvement Standards, fees, or other City Ordinances.
4. Any site construction and operations shall comply with all applicable sections of the California Building and Fire Codes.
5. The use shall be in compliance with all requirements of the Kings County Department of Public Health and the Safe Body Art Act.

EXPIRATION

That this Conditional Use Application Permit become null and void two (2) years after the effective date of approval, unless, prior to the expiration, the use for which the permit was approved has commenced. Prior to expiration of a permit, a person having authority to file an application may file a written request with the Community Development Director for extension of a permit that may otherwise expire. The request for extension will be taken to the Planning Commission, who may extend the expiration of the permit by one year.

PASSED AND ADOPTED at a regular meeting of the Hanford City Planning Commission by the following vote:

AYES:	Commissioners
NOES:	Commissioners
ABSTAIN:	Commissioners
ABSENT:	Commissioners

STATE OF CALIFORNIA)
COUNTY OF KINGS) ss
CITY OF HANFORD)

I, **Jason Waters**, Secretary of the City of Hanford Planning Commission, do hereby certify the foregoing Resolution was duly passed and adopted by the Planning Commission of the City of Hanford at a regular meeting thereof held on the 14th day of October 2025.

Jason Waters, Secretary

Exhibit A
Floor Plan

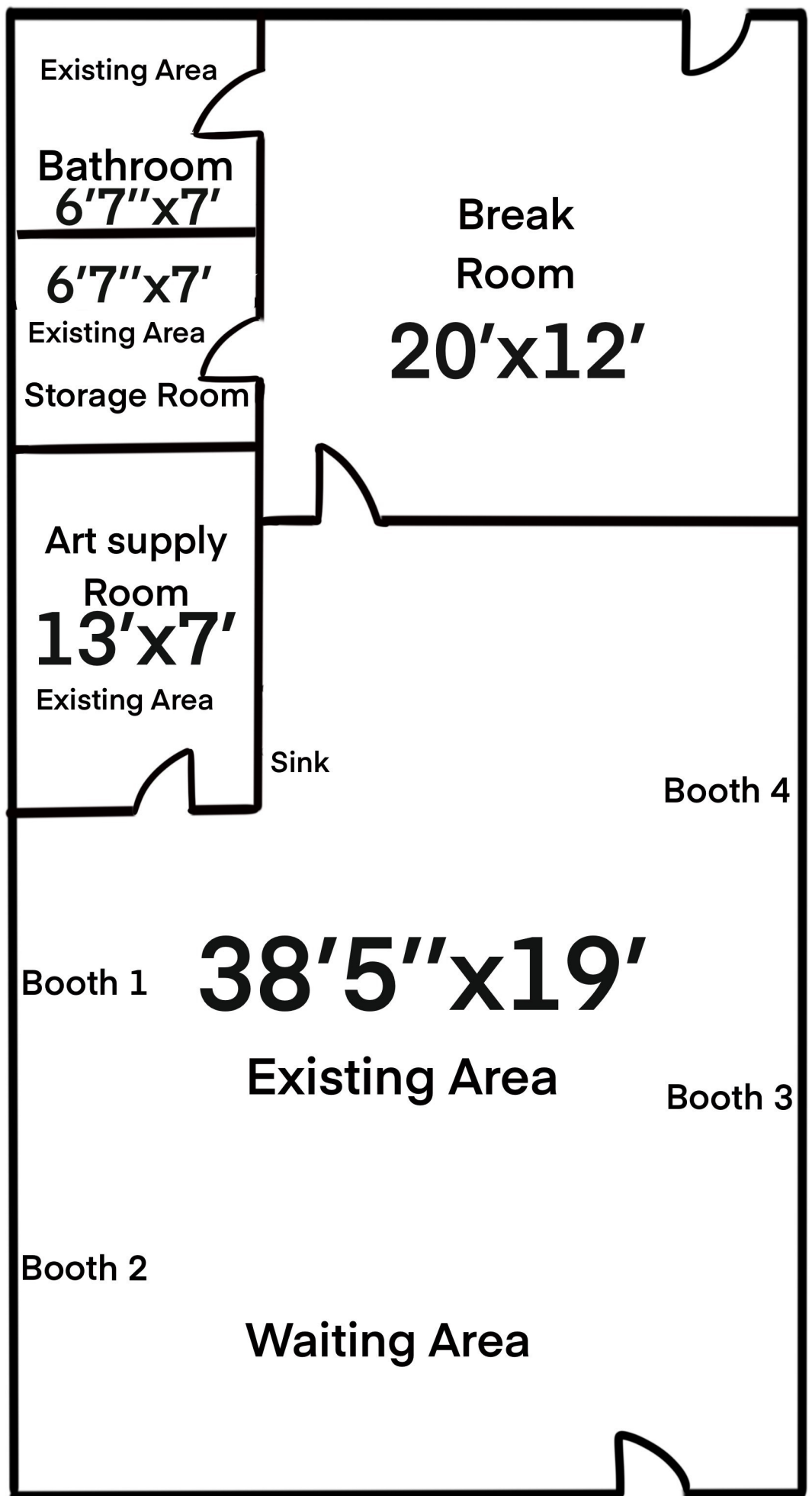


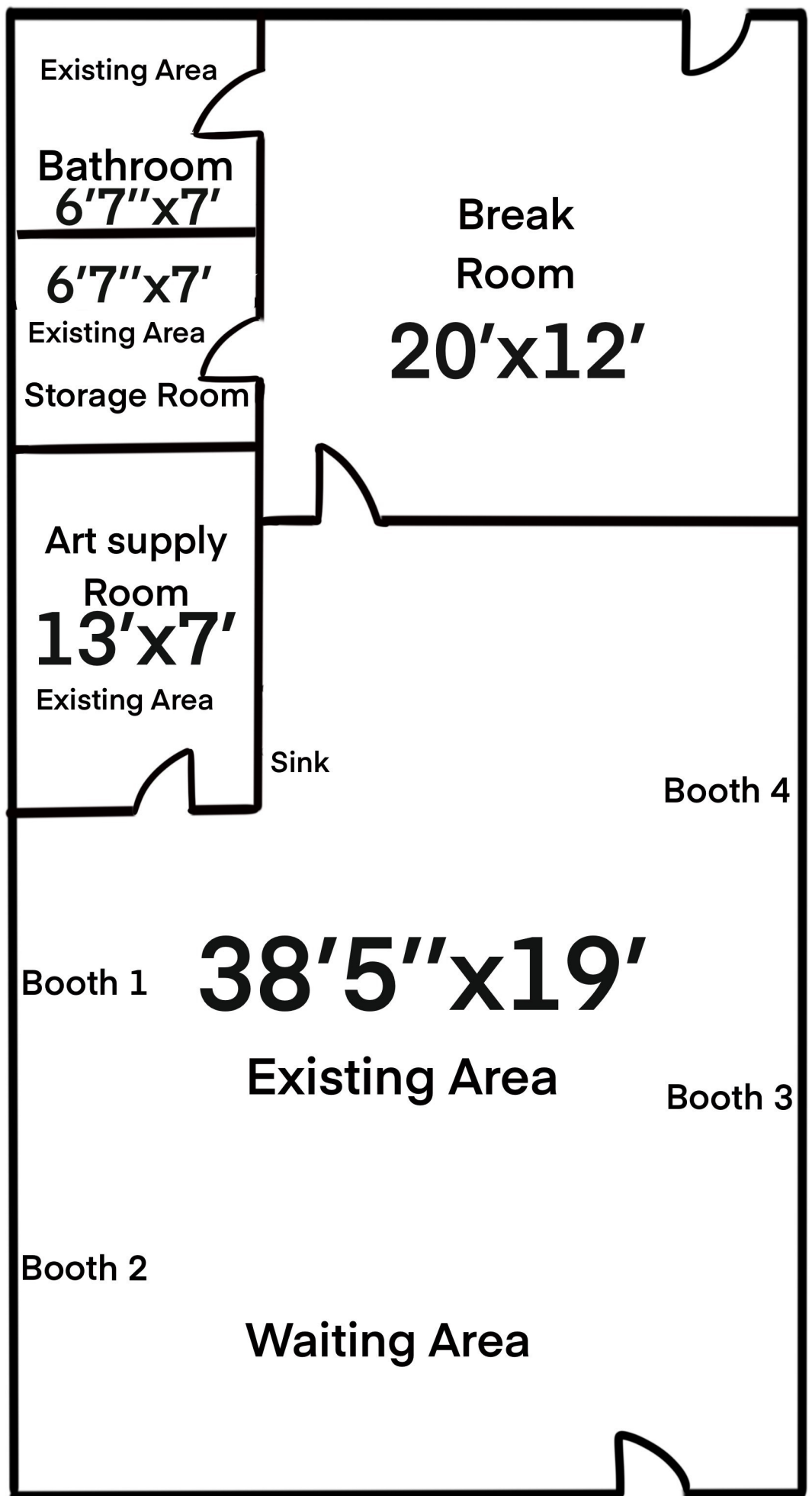
Exhibit B
Building Division Conditions of Approval

BUILDING DIVISION
CUP0053-25 Tattoo Parlor
9-23-25
126 N 11th Ave

Contact Building Official: Tom Webb (559) 585-2584
Concerning questions that you may have on the conditions listed below:

1. That building permits must be obtained from the City Building Division for each structure to include but not limited to: buildings, pools, fences, trash enclosures, signs and carports for any structural, plumbing, electrical or mechanical **work being done**.
2. That no building or structure shall be used or occupied, and no change in the existing occupancy classification of building or structure or portion thereof shall be made until the building official has approved the change and issued a Certificate of Occupancy.
3. That detailed dimensioned plans be provided to the Building Division for each structure prior to obtaining construction permits. Each structure will require a separate submittal and permit.
4. That each structure will require plans and calculations signed by an architect or engineer licensed to practice in the State of California. Submittal shall consist of as applicable:
 - 4.1 1 copy of the City of Hanford Permit Application form
 - 4.2 1 electronic set of Drawings, unless noted, including:
 - 4.2.4 Structural Drawings
 - 4.2.5 Electrical Drawings
 - 4.2.6 Mechanical Drawings
 - 4.2.7 Plumbing Drawings
 - 4.2.10 **Planning Dept. "Conditions of Approval" or "Resolution" printed on the drawings and part of the drawing submittal**
 - 4.2.11 Sets shall be stamped and wet signed by an Architect or Engineer licensed in the State of California (when required).
 - 4.3 1 electronic set of documentation, unless noted, including:
 - 4.3.1 Architectural Specifications
 - 4.3.2 Structural Calculations
 - 4.3.3 Electrical Calculations, if not included on the drawings
 - 4.3.4 Mechanical Calculations, if not included on the drawings
 - 4.3.6 Energy Calculations, if not included on the drawings
 - 4.3.7 CalGreen Compliance
 - 4.3.9 Original shall be stamped and wet signed by an Architect or Engineer licensed in the State of California.
5. **That the site, as well as the buildings, shall be made accessible and usable by the disabled in accordance with the California Building Code, Chapter 11B.**
6. That all special inspection reports be submitted to the Building Division prior to final inspection.
7. That all construction shall conform to **the Most Current Edition** (2022) of the California Building Code, California Electrical Code, California Mechanical Code, California Plumbing Code, California Fire Code, California Energy Code and CalGreen.
8. That the tenant, lessee, and/or owner are responsible for compliance with the Americans with Disabilities Act. By federal law your facility must be made accessible to the highest degree possible.

9. That the applicant provides a complete set of AS-BUILT drawings to the Building Division prior to Final Inspection.
10. That each of these drawings apply to any/all work done to the structure at this time
11. **This project is a Change of Use. A permit is required. A complete set of plans is required. Plans must include scaled drawings of existing and proposed floor plans.**
12. That form #55 shall be filled out and returned with plans.



Notice of Exemption 2025-75

To: ☐ Office of Planning and Research
P.O. Box 3044, Room 212
Sacramento, CA 95812-3044

☒ County Clerk
County of Kings
Kings County Government Center
Hanford, CA 93230

From: City of Hanford
317 North Douty Street
Hanford, CA 93230

Project Title: Conditional Use Permit 0053-25

Project Location – 126 N. 11th Ave. (APN 012-271-035)

Project Location – City: Hanford **Project Location – County:** Kings County

Description of Nature, Purpose and Beneficiaries of Project: Conditional Use Permit No. 0053-25: a request by O7 Ink Lounge to relocate an existing tattoo studio into an existing 1,110-square-foot suite in the MX-C Corridor Mixed Use zone district.

Name of Public Agency Approving Project: City of Hanford, Planning Division

Name of Person or Agency Carrying Out Project/Project Applicant: Erely Ochoa

Exempt Status: **(check one)**

- ☐ Ministerial (Sec. 21080(b)(1); 15268);
☐ Declared Emergency (Sec. 21080(b)(3); 15269 (a));
☐ Emergency Project (Sec. 21080(b)(4); 15269(b)(c));
☒ Categorical Exemption: State type and section number: 15301 Existing Facilities
☐ Statutory Exemption. State code number:

Reasons why project is exempt:

The City of Hanford determined the project to be exempt from environmental review pursuant to Section 15301 of the California Environmental Quality Act (CEQA) Guidelines. Section 15301 states that Class 1 exemptions consist of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use. This project involves the permitting of an existing private structure, involving negligible or no expansion.

Lead Agency

Contact Person: Mark Manha Area Code/ Telephone: (559) 585-2583

Signature: _____ Date: October 14, 2025 Title: Associate Planner

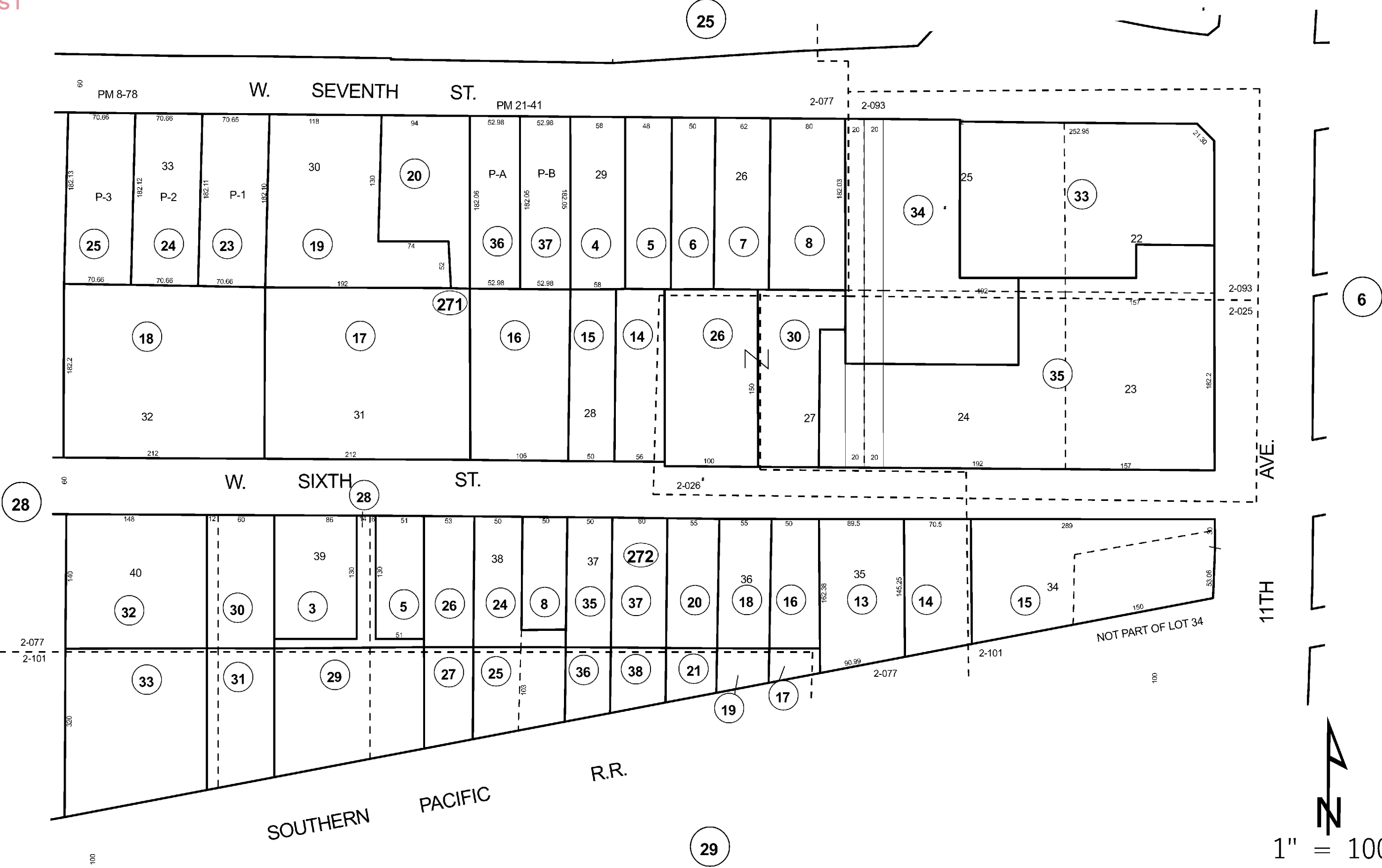
☒ Signed by Lead Agency Date received for filing at OPR: _____
☐ Signed by Applicant

THIS MAP IS FOR ASSESSMENT PURPOSES ONLY.
IT IS NOT TO BE CONSTRUED AS PORTRAYING
LEGAL OWNERSHIP OF DIVISIONS OF LAND FOR
PURPOSES OF ZONING OR SUBDIVISION LAW.
AUGUST 2022

KINGS COUNTY ASSESSOR'S MAP

SE BIDDLES SUBDIVISION SEC 35/18/21

12-27



**CITY OF HANFORD PLANNING COMMISSION
STAFF REPORT**

MEETING DATE: October 14, 2025

PROJECT: **Annexation165:** a request to annex approximately 141.85 acres into the City of Hanford City Limits from the Kings County Jurisdiction. The annexation area is a combination of the Project Site (83.61 acres) and an area to the north, not proposed to be developed at this time (58.24 acres).

General Plan Amendment No. 0009-24: a request to change the land use designation from a combination of Low- and Medium-Density Residential to Medium-Density Residential (78.16 acres) and Neighborhood Mixed Use (5.45 acres) for 83.61 acres of the project site.

Prezone No. 0013-24: a request to prezone the properties as a R-M Medium-Density Residential (78.16 acres) and MX-N Neighborhood Mixed Use (5.45 acres), consistent with the proposed General Plan Amendment and R-L-5 Low-Density Residential (51.92 acres) and C-N Neighborhood Commercial (6.32 acres), consistent with the General Plan Designation.

Tentative Subdivision Map 00012-24: a request to subdivide 83.61 acres of the annexation area into a 650-unit multi-family (300 units) and single-family (350 units) residential subdivision and a 5.45-acre Neighborhood Mixed Use site with a planned unit development overlay.

Planned Unit Development No. 0037-24: a request to allow various deviations from the regulation of the R-M Medium-Density Residential zone district for the mixed use subdivision, proposed under Tentative Tract 945, including reduced lot size, lot width, lot depth, site area per dwelling unit requirements, setbacks, open space dimensions, and allow removal of the block wall requirement between MX-N Neighborhood Mixed Use and R-M Medium-Density Residential.

Mitigated Negative Declaration No. 2025-73 (SCH #2024121093): a request to certify that the project will have a less than significant adverse impacts on the environment with the incorporation of mitigation measures

LOCATION: The Project site is located north of Grangeville Boulevard and east of 9 ¼ Avenue. The development site includes two parcels, comprising 83.61 acres (APNs 014-143-069 and 014-143-078). The additional Annexation Area encompasses 58.24 acres (APNs 014-143-022, 014-830-011, 014-830-010, 014-830-013, 014-830-014, 014-830-015, 014-830-016, 014-830-017, 014-830-018).

PLANNER: Gabrielle Myers, Senior Planner

STAFF RECOMMENDATION

Environmental:

1. Recommend certification of Mitigated Negative Declaration No. 2025-73 (SCH# 2024121093) for the project to the City Council.

Annexation:

2. Find that the proposed Annexation No. 165 is consistent with the Hanford General Plan Policies L15 and L17 and forward Annexation No. 165 to the City Council, with a recommendation that an application be made to the Local Agency Formation Commission (LAFCO) of Kings County.

General Plan Amendment:

3. Adopt Resolution No. 2025-30, recommending approval of General Plan Amendment No. 0009-24 to the City Council.

Pre-Zone:

4. Adopt Resolution No. 2025-31, recommending approval Prezone No. 0013-24 to the City Council.

Tentative Subdivision Map:

5. Adopt Resolution No. 2025-32, **as amended**, recommending approval of Tentative Subdivision No. 0012-24 (TT 945) to the City Council

Planned Unit Development:

6. Adopt Resolution No. 2025-33, **as amended**, recommending approval of Planned Unit Development No. 0037-24 to the City Council.

RECOMMENDED MOTIONS

Environmental:

1. I move to recommend certification of Mitigated Negative Declaration No. 2025-73 (SCH# 2024121093) for the project to the City Council.

Annexation:

2. I move to find that the proposed Annexation No. 165 is consistent with the Hanford General Plan Policies L15 and L17 and forward Annexation No. 165 to the City Council, with a

recommendation that an application be made to the Local Agency Formation Commission (LAFCO) of Kings County.

General Plan Amendment:

3. I move to adopt Resolution No. 2025-30, recommending approval of General Plan Amendment No. 0009-24 to the City Council.

Pre-Zone:

4. I move to adopt Resolution No. 2025-31, recommending approval Prezone No. 0013-24 to the City Council.

Tentative Subdivision Map:

5. I move to adopt Resolution No. 2025-32, **as amended**, recommending approval of Tentative Subdivision No. 0012-24 (TT 945) to the City Council

Planned Unit Development:

6. I move to adopt Resolution No. 2025-33, **as amended**, recommending approval of Planned Unit Development No. 0037-24 to the City Council.

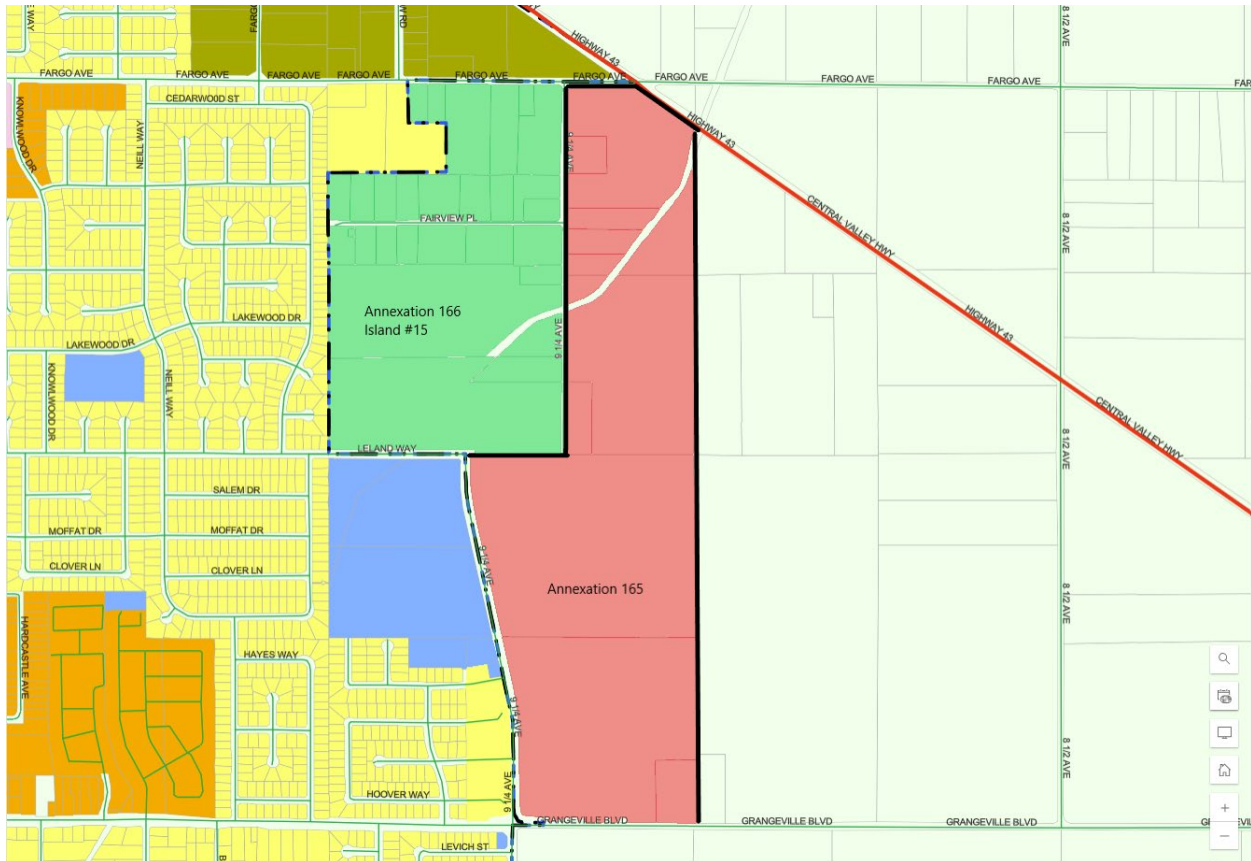
PROJECT DESCRIPTION

The proposed Project consists of the annexation of 141.85 acres for the proposed development of a 650-unit multi-family (300 units) and single-family (350 units) residential subdivision and a 5.45-acre Neighborhood Mixed Use site on approximately 83.61 acres of the annexation area proposed to be developed over 5 phases.

Annexation 165

Annexation 165 is a request to annex approximately 141.85 acres into the City of Hanford City Limits from the Kings County Jurisdiction. The annexation area is a combination of the Project Site (83.61 acres) and an area to the north, not proposed to be developed at this time (58.24 acres). See Figure 1 and **Attachment 1**.

Figure 1:
Proposed Annexation Area
(shown in red; prior annexation effort 166, shown in green)



General Plan Amendment No. 0009-24

General Plan Amendment No. 0009-24 is a request to change the land use designation from a combination of Low- and Medium-Density Residential to Medium-Density Residential (78.16 acres) and Neighborhood Mixed Use (5.45 acres) for 83.61 acres of the project site.

Figure 2: Existing General Plan Designation
(project site outlined in red)

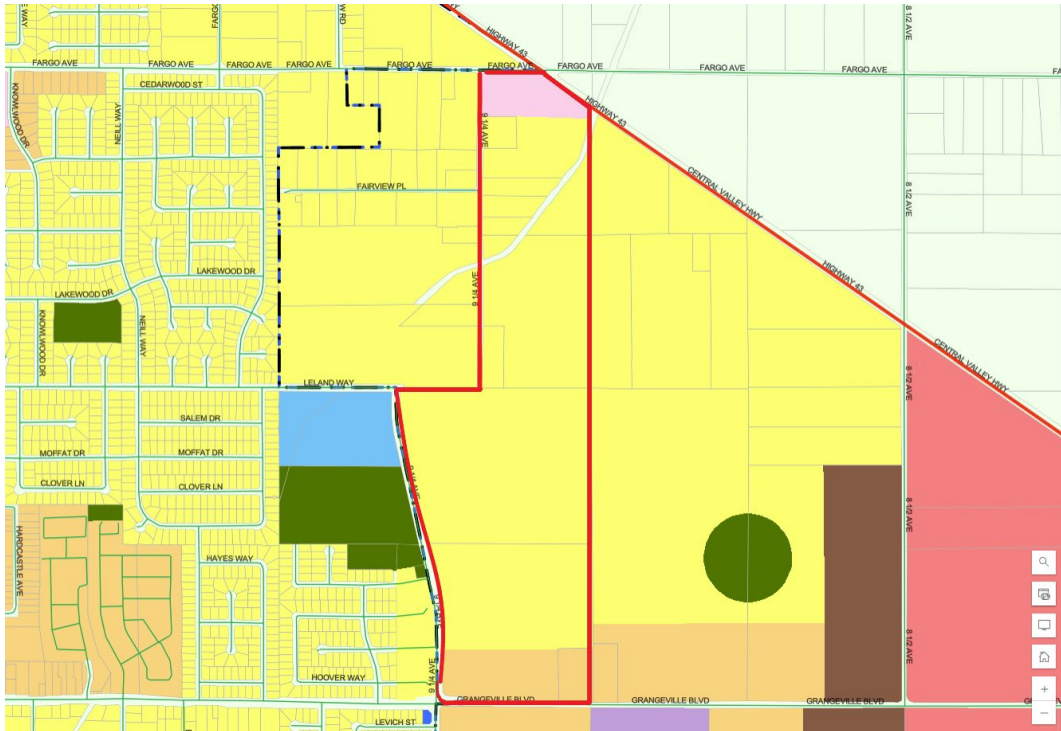
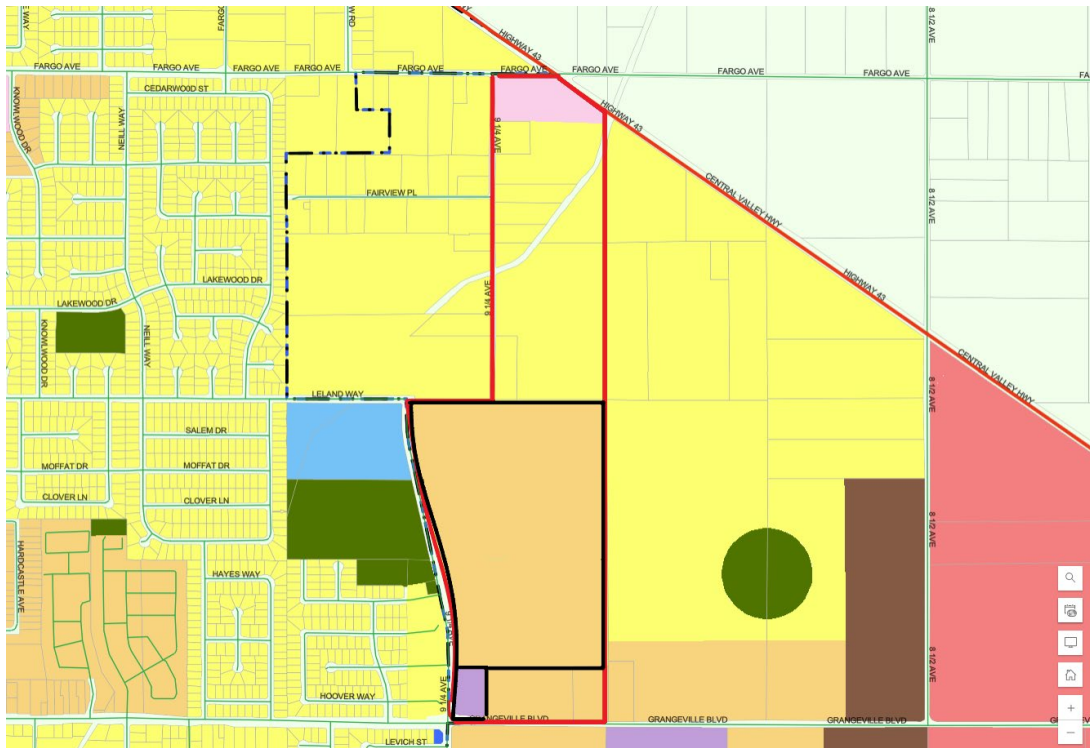


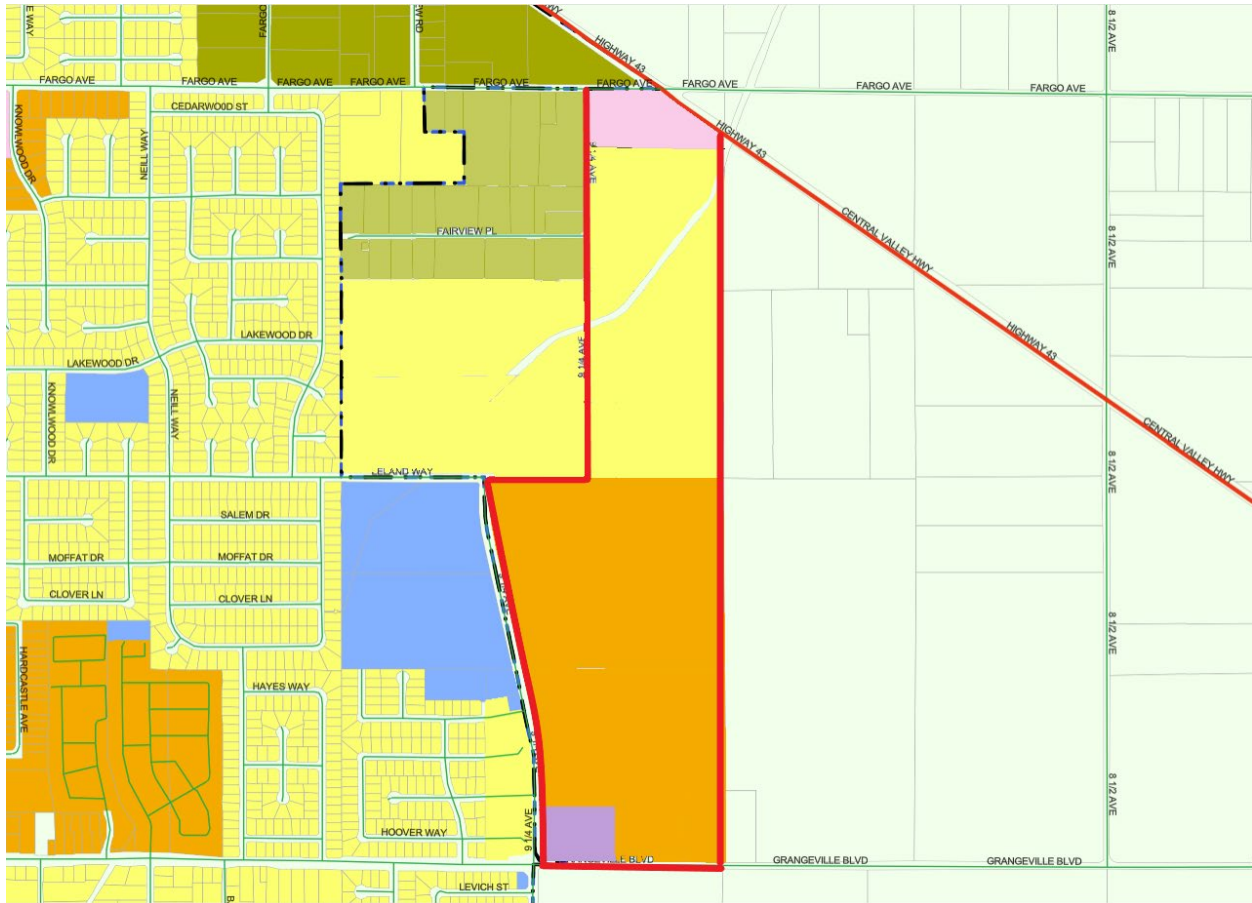
Figure 3: Proposed General Plan Amendment
(project site shown in red; area changed outlined in bold)



Prezone No. 0013-24

Prezone No. 0013-24 is a request to prezone the properties as a R-M Medium-Density Residential (78.16 acres) and MX-N Neighborhood Mixed Use (5.45 acres), consistent with the proposed General Plan Amendment and R-L-5 Low-Density Residential (51.92 acres) and C-N Neighborhood Commercial (6.32 acres), consistent with the General Plan Designation.

Figure 4: Prezone No. 0013-24
(project site outlined in red)



Tentative Subdivision Map 00012-24 (TT 945)

Tentative Subdivision Map No. 00012-24, also known as TT 945 or Copper Ridge, is a request to subdivide 83.61 acres of the annexation area into a 650-unit multi-family (300 units) and single-family (350 units) residential subdivision and a 5.45-acre Neighborhood Mixed Use site.

Vesting Tentative Tract 945 – Attached as **Attachment 2**.

TENTATIVE SUBDIVISION MAP
COPPER RIDGE
 TRACT NO. 945
 SAN FRANCISCO, CALIFORNIA
 OCTOBER 8, 2025

TYP. ONE STORY DUPLEX SITE (LOTS 351-387)

TYP. TWO STORY 8-FLEX SITE

UNPLOTTABLE ELEMENTS

OWNER
 WARFIELD FAMILY TRUST
 1400 EXETER AVE. SAN FRANCISCO, CA 94133
 DAKOTA FAMILY TRUST 2001
 2001 10TH AVE. BERKELEY, CA 94701

DEVELOPER
 R & S CAPITAL LLC
 1000 CALIFORNIA STREET, SUITE 100
 SAN FRANCISCO, CA 94109

PROJECT INFO
 PROJECT NAME: COPPER RIDGE AND GRANGEVILLE BLVD
 PROJECT LOCATION: 1000 CALIFORNIA STREET, SUITE 100
 PROJECT TYPE: RESIDENTIAL DEVELOPMENT
 PROJECT SIZE: 100,000 SQ. FT.
 PROJECT STATUS: UNDER REVIEW

PHASES INFO

PHASE	NO. OF UNITS	LOT SIZE (SQ. FT.)	TOTAL LOT AREA (SQ. FT.)	TOTAL UNIT AREA (SQ. FT.)
PHASE 1	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 2	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 3	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 4	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 5	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 6	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 7	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 8	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 9	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 10	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 11	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 12	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 13	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 14	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 15	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 16	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 17	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 18	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 19	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 20	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 21	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 22	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 23	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 24	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 25	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 26	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 27	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 28	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 29	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 30	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 31	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 32	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 33	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 34	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 35	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 36	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 37	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 38	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 39	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 40	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 41	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 42	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 43	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 44	100	40' x 100' LOTS: 110	40,000	40,000
PHASE 45	100	40' x 100' LOTS: 110	40,000	40,

Planned Unit Development No. 0037-24 is a request to allow various deviations from the regulations of the R-M Medium-Density Residential zone district for the residential subdivision, proposed under TT 945, including reduced lot size, lot width, lot depth, and setbacks allowance and allow removal of the block wall requirement between MX-N Neighborhood Mixed Use and R-M Medium-Density Residential.

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet

	corner lots, except as prescribed in Section 17.10.100.	
	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-foot wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.
§ 17.24.130 Screening, fences, and walls.	A block wall with a minimum height of seven (7) feet shall be provided along any side or rear lot line that abuts an R-L, R-M, R-H, OR, PF, AP, or CO zone district.	Deviation request to remove the block wall requirement between the MX-N and R-M zone district to allow for integration and mixed uses between sites.

Surrounding Uses

Direction	Existing Land Use	General Plan Designation	Zone District
North	Large-lot single-family residential	Low-Density Residential	R-L-12 Low-Density Residential
South	Vacant and large-lot single-family residential	Medium-Density Residential; Single-Family Residential; Neighborhood Mixed Use	County AL-10
East	Single-family residences	Low-Density Residential; Medium-Density Residential	County AL-10
West	School site; park space; single-family residential	Low-Density Residential, Open Space, Public Facilities	R-L-5 Low-Density Residential, PF Public Facility

Access and Circulation

Vehicular access to the site is proposed to be provided on Grangeville Boulevard and 9 ¼ Avenue for the commercial portion of the site. The low-rise apartments will have primary access to Grangeville Boulevard. The single-family residential portions of the site will be accessed from 9th, 9 ¼ and Leland Avenues, as well as interior local roads.

Utilities

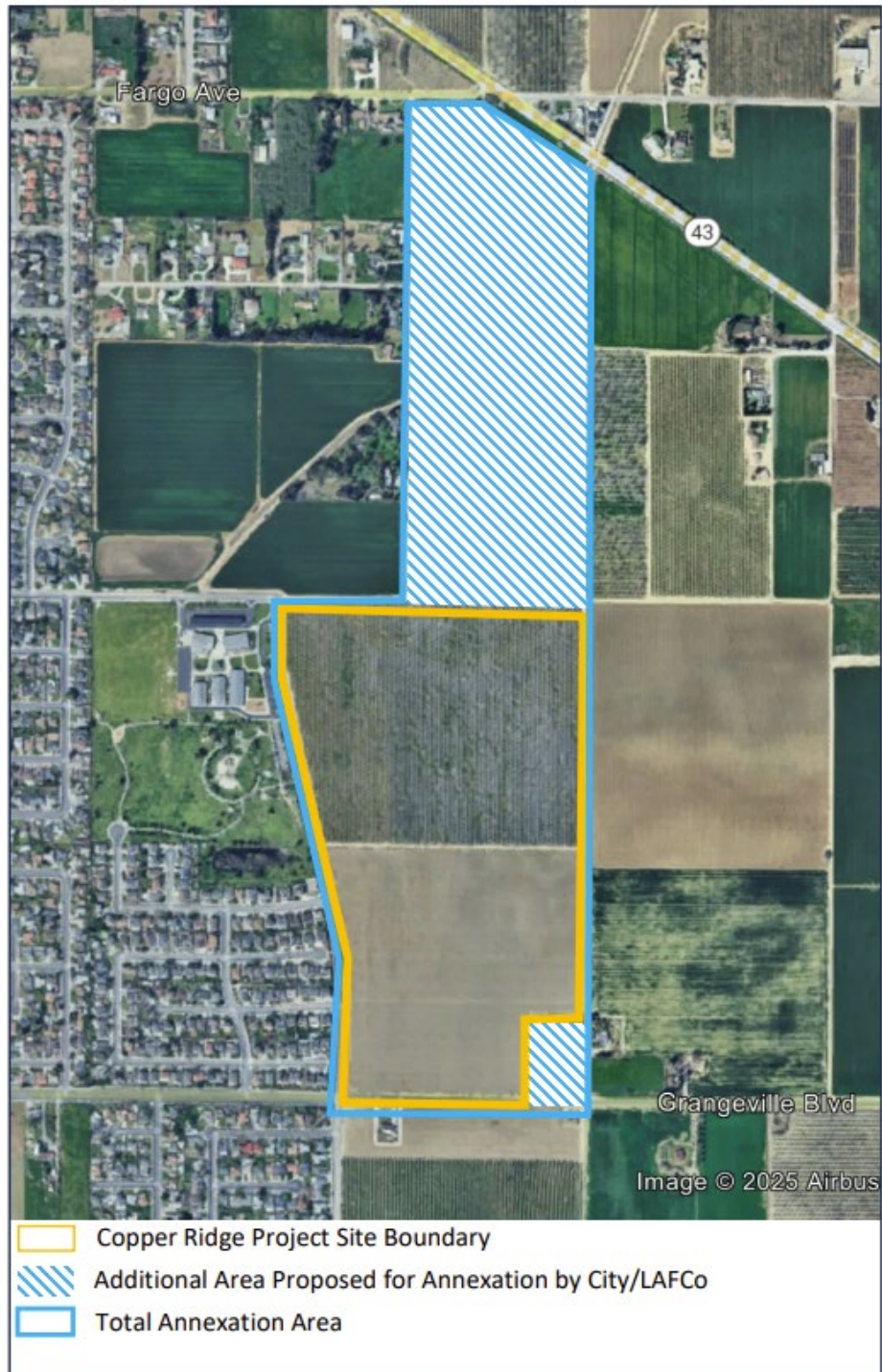
The proposed Project would result in new water services connecting to an existing City water line located in 9¼ Avenue adjacent to the Project. Sewer service will be provided from an existing main trunk line located in 9th Avenue, south of the Project. Storm drain services will be provided by a permanent storm basin that will be located onsite. Southern California Edison provides electric service to the City. Natural gas service is primarily provided by the Southern California Gas Company. There are three major companies that provide communications services: AT&T, Sprint, and Verizon. Comcast is the primary cable television and internet provider in Kings County. With the Project, new service for all utilities will be constructed into the proposed subdivision.

BACKGROUND INFORMATION

Project Location

The Project site is located north of Grangeville Boulevard and east of 9 ¼ Avenue. The development site includes two parcels, comprising 83.61 acres (APNs 014-143-069 and 014-143-078). The additional Annexation Area encompasses 58.24 acres (APNs 014-143-022, 014-830-011, 014-830-010, 014-830-013, 014-830-014, 014-830-015, 014-830-016, 014-830-017, 014-830-018).

Figure 6: Project Location



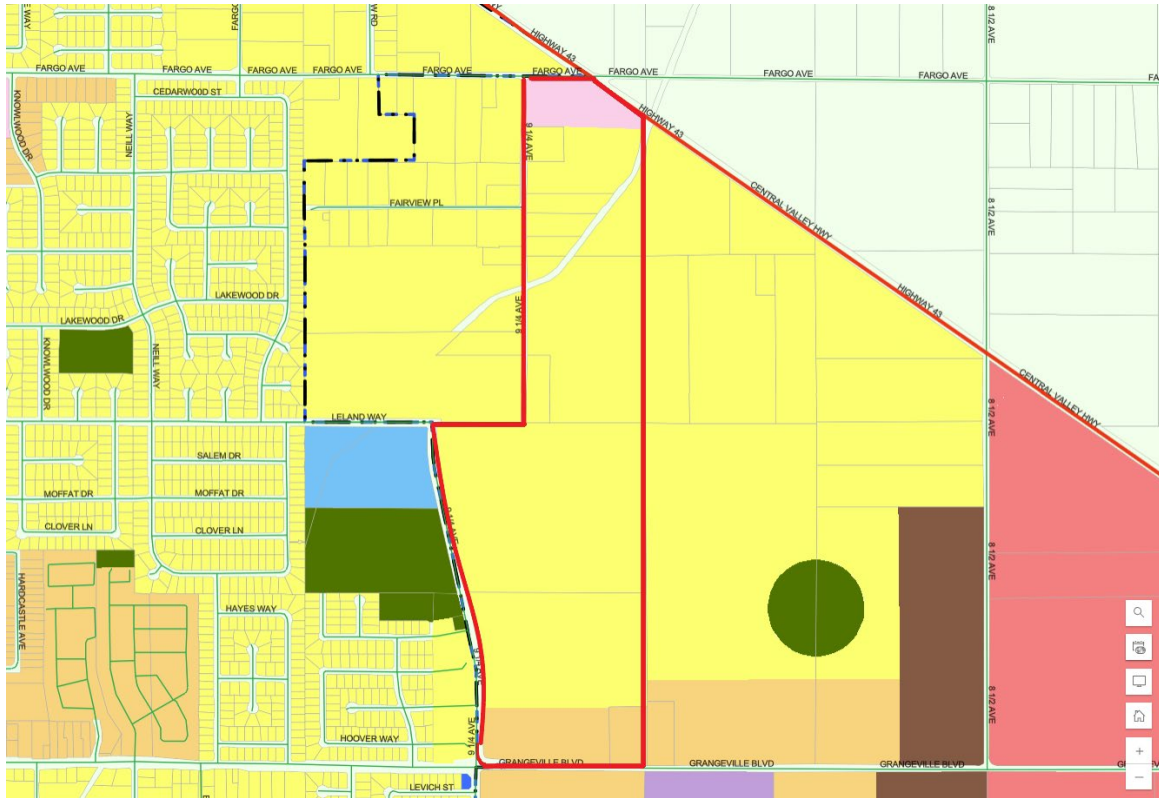
Existing Land Use

The annexation area includes seven large-lot single-family residences, land use for agriculture, and vacant land.

General Plan and Zoning Designation

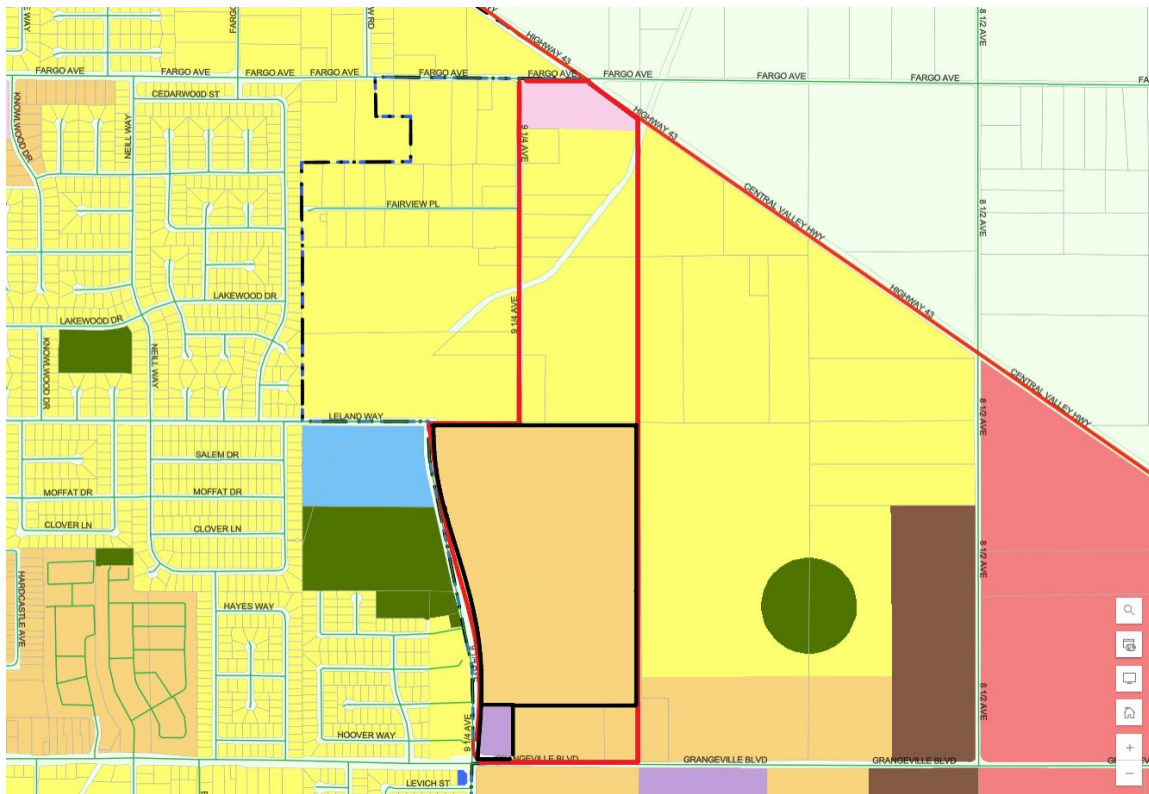
The land is presently designated by the General Plan as a combination of Low-Density Residential, Medium-Density Residential, and Neighborhood Commercial.

Figure 7: Existing General Plan Designation
(project site outlined in red)



General Plan Amendment No. 0009-24 is a request to change the General Plan Designation for the development project site from Low- and Medium-Density Residential to Medium-Density Residential and Neighborhood Mixed Use.

Figure 8: Proposed General Plan Amendment
(project site shown in red; area changed outlined in bold)



3.4.1 Low Density Residential

The expected density range for Low Density Residential is 2 to 10 units per gross acre with an expected average of 4 units per gross acre.

Policy L31 Purpose of the Low Density Residential Land Use Designation

Establish the Low Density Residential land use designation to provide mainly single family development on lot sizes typically found in urban settings.

Policy L32 Typical Uses in the Low Density Residential Land Use Designation

Define the uses allowed in the Low Density Residential land use designation to include residential uses in a variety of single-family lot types. Duplexes, second dwelling units, and home occupations can also be allowed when made compatible with the residential nature of the neighborhood.

Policy L33 Size of Lots in the Low Density Residential Land Use Designation

While it is recognized that existing lot sizes of 10,000 to 40,000 square feet are included in this designation, new individual lot sizes shall range from 5,000 to 10,000 square feet in size. Under

Planned Unit Development provisions, smaller lot sizes at higher densities may be permitted when clustered around shared open space amenities or through density bonus policies.

Analysis: The Low-Density Residential designation will be maintained for the northern portion of the annexation area, where development is not taking place. The existing large-lot single-family residences within the annexation area are consistent with the Low-Density Residential land use designation.

3.5.1 Neighborhood Commercial

Policy L42 Purpose of Neighborhood Commercial Land Use Designation

Establish the Neighborhood Commercial land use designation to provide convenience commercial and neighborhood shopping centers serving a localized market that provide a range of necessary day-to-day retail goods and services.

Policy L43 Typical Uses in Neighborhood Commercial Land Use Designation

Define the uses allowed in the Neighborhood Commercial land use designation to include businesses providing day-to-day goods and services for the surrounding and nearby residential neighborhood. Uses that would primarily serve a citywide or regional market area shall not be allowed. Typical uses include markets, small retail shops, eating establishments, service stations, convenience stores, dry cleaning and laundry services, beauty salons, and other similar uses.

Policy L44 Design of Neighborhood Commercial Land Use Designation

Require that new development projects and major site reconfigurations in the Neighborhood Commercial land use designation layout buildings and parking as a single, integrated shopping center with shared driveway access and parking, with walkways connecting buildings to each other and the street so as to promote pedestrian accessibility from nearby residential neighborhoods.

Policy L45 Location and Size of Neighborhood Commercial Land Use Designation

Locate Neighborhood Commercial land use designations on 3 to 10 acres at roughly one-mile intervals on one corner of an intersection of an arterial street and an arterial or collector street.

Policy L46 Anchor Tenants in Neighborhood Commercial Land Use Designation

Limit the total gross building square footage of the anchor tenant, such as a supermarket, in the Neighborhood Commercial land use designation to not exceed 55,000 square feet, and also to not exceed 50% of the shopping center's gross building square footage.

Analysis: The Neighborhood Commercial designation is located at the southwest intersection of Fargo Avenue and Highway 43 within the annexation area. At this time, the area is not proposed to be developed.

3.4.2 Medium Density Residential

The expected density range for Medium Density Residential is 7 to 20 units per gross acre with an expected typical density of 9 units per gross acre. 20 units per gross acre may be achieved with density bonuses and conditional use permits.

Analysis: The southern portion of the annexation area, considered the development project area, is proposed to be developed, as shown in Tentative Tract 945, which proposes to subdivide 78.16 acres into 350 single-family residences and 300 multi-family residences, for a combined total of 650 units, with an estimated 8.31 units per acre. The expected density range is achieved through the development proposed in Tentative Tract 945.

Policy L34 Purpose of the Medium Density Residential Land Use Designation

Establish the Medium Density Residential land use designation to include residential uses such as duplexes, triplexes, fourplexes, townhomes, and lower density apartment complexes, as well as non-traditional, smaller single-family lots with designs such as zero lot lines, patio homes, and townhomes with lot sizes ranging from 4,500 to 7,500 square feet for single family developments. It is intended that development be conveniently serviced by neighborhood commercial and recreational facilities and have access to major collector or arterial streets.

Analysis: The southern area of the annexation area, considered the development project area, is proposed to be developed, as shown in Tentative tract 945, which proposes non-traditional smaller, single-family lots, one-story duplexes, and a two-story apartment complex. The development proposed through Tentative Tract 945 is consistent with the purpose of the medium-density residential land use.

Policy L35 Typical Uses in the Medium Density Residential Land Use Designation

Define the uses allowed in the Medium Density Residential land use designation to include residential uses such as duplexes, triplexes, fourplexes, townhomes, and lower density apartment complexes, as well as non-traditional, smaller single-family lots. It is intended that development be conveniently serviced by neighborhood commercial and recreational facilities and have access to major collector or arterial streets.

Analysis: The southern area of the annexation area, considered the development project area, is proposed to be developed, as shown in Tentative tract 945, which proposes non-traditional smaller, single-family lots, one-story duplexes, and a two-story apartment complex. The development will be conveniently serviced by neighborhood commercial on the southwest corner of the project site, be located across the street from Freedom Park and the future Heroes Park and have access to Grangeville Boulevard and 9th Avenue (arterials) and 9 ¼ and Leland Avenues (collectors). The development proposed through Tentative Tract 945 is consistent with the typical uses in the medium-density residential land use designation.

Policy L36 Design of the Medium Residential Land Use Designation

Develop and enforce design policies and/or ordinances for Medium Density Residential developments that ensure high quality construction, design, open space amenities, safety and security, and overall compatibility with the rest of the neighborhood.

Analysis: The development proposed under Tentative Tract 945 and Planned Unit Development No. 0037-24 will be developed consistently with the regulations set forth in Section 17.12 of the Hanford Municipal Code, except where deviation is proposed through the PUD.

Policy L37 Location and Size of the Medium Density Residential Land Use Designation

Locate the Medium Density Residential land use designation in and around the residential portions of Hanford's original townsite and in existing and new neighborhoods where there is direct access to major streets. The minimum area designated in a single location shall be three (3) acres.

Analysis: The designation will be located with between Grangeville and Leland Avenues, and between 9th and 9 ¼ Avenues, which are considered major streets. The designation will be 78.16 acres.

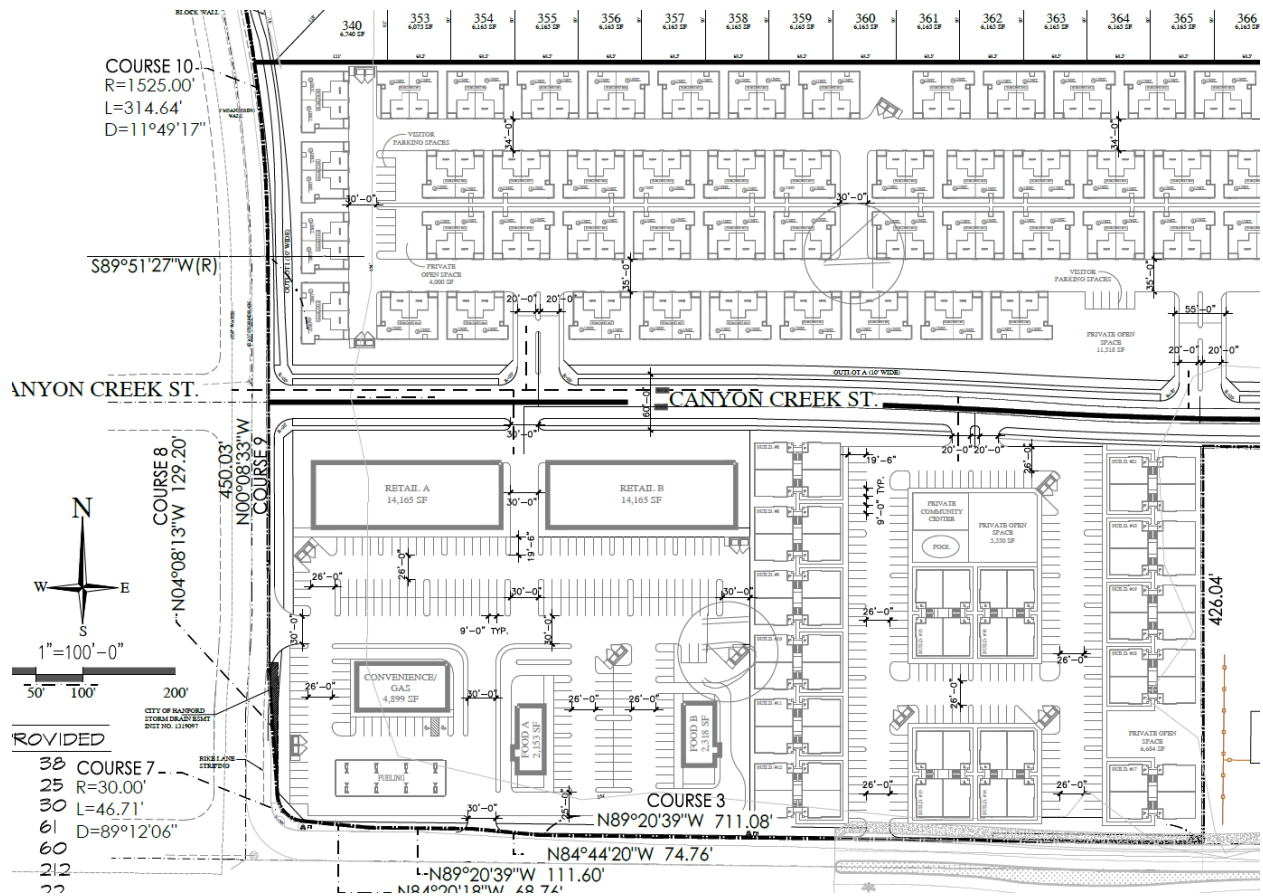
3.6.1 Neighborhood Mixed Use

Policy L60 Purpose of Neighborhood Mixed Use Land Use Designation

Establish the Neighborhood Mixed Use land use designation to promote mixed-use commercial and multi-family residential areas that allow walking to and between the mix of uses. New development may be oriented towards an existing public street or a new street or civic space within the development site.

Analysis: The designation is proposed to be developed as shown in Tentative Tract 945, which promotes mixed-use commercial with surrounding multi-family residential, including the ability to walk in between the mix of uses. The development proposed is oriented towards the public street, Grangeville Boulevard and 9 ¼ Avenue.

Figure 9: Horizontal Mixed Use Integration



Policy L61 Typical Uses in Neighborhood Mixed Use Land Use Designation

Define the uses allowed in the Neighborhood Mixed Use land use designation to include multi-family dwellings along with businesses providing day-to-day goods and services for the surrounding and nearby residential neighborhoods. Commercial uses that would primarily serve a citywide or regional market area shall not be allowed. Typical uses include duplexes, townhomes, apartments, markets, small retail shops, eating establishments, service stations, convenience stores, dry cleaning and laundry services, beauty salons, and other similar uses. Both vertical and horizontal mixed-use developments are encouraged.

Analysis: Although conceptual, the anticipated uses of the Neighborhood Mixed Use designation proposed through Tentative Tract 945 for the project site include a gas station with a convenience store, fast food establishments, and two retail spaces, which will be limited to the uses permitted in MX-N Neighborhood Mixed Use. Horizontal mixed use is achieved through the blending with the proposed Medium-Density Residential designation where duplexes and multi-family apartments are proposed.

Policy L62 Design of Neighborhood Mixed Use Land Use Designation

Analysis: Although conceptual, the designation is proposed to be integrated with the Medium-Density Residential land use through walkways and sidewalks, providing pedestrian access between the sites. Pathways between the Neighborhood Mixed Use and Medium-Density Residential designation will be required and verified during future site plan review.

Locate Neighborhood Mixed Use land use designations on eight (8) to twenty-five (25) acres at roughly one-mile intervals on one corner of an intersection of an arterial street and an arterial or collector street. This land designation takes the place of the Neighborhood Commercial land use designation on some corners.

Analysis: There is an 18.18-acre Neighborhood Mixed Use designation to the southeast of the project site on the opposite side of Grangeville Boulevard. In combination with this designation, there will be a total of 23.63 acres of Neighborhood Mixed Use, which is within the anticipated acreage for the designation.

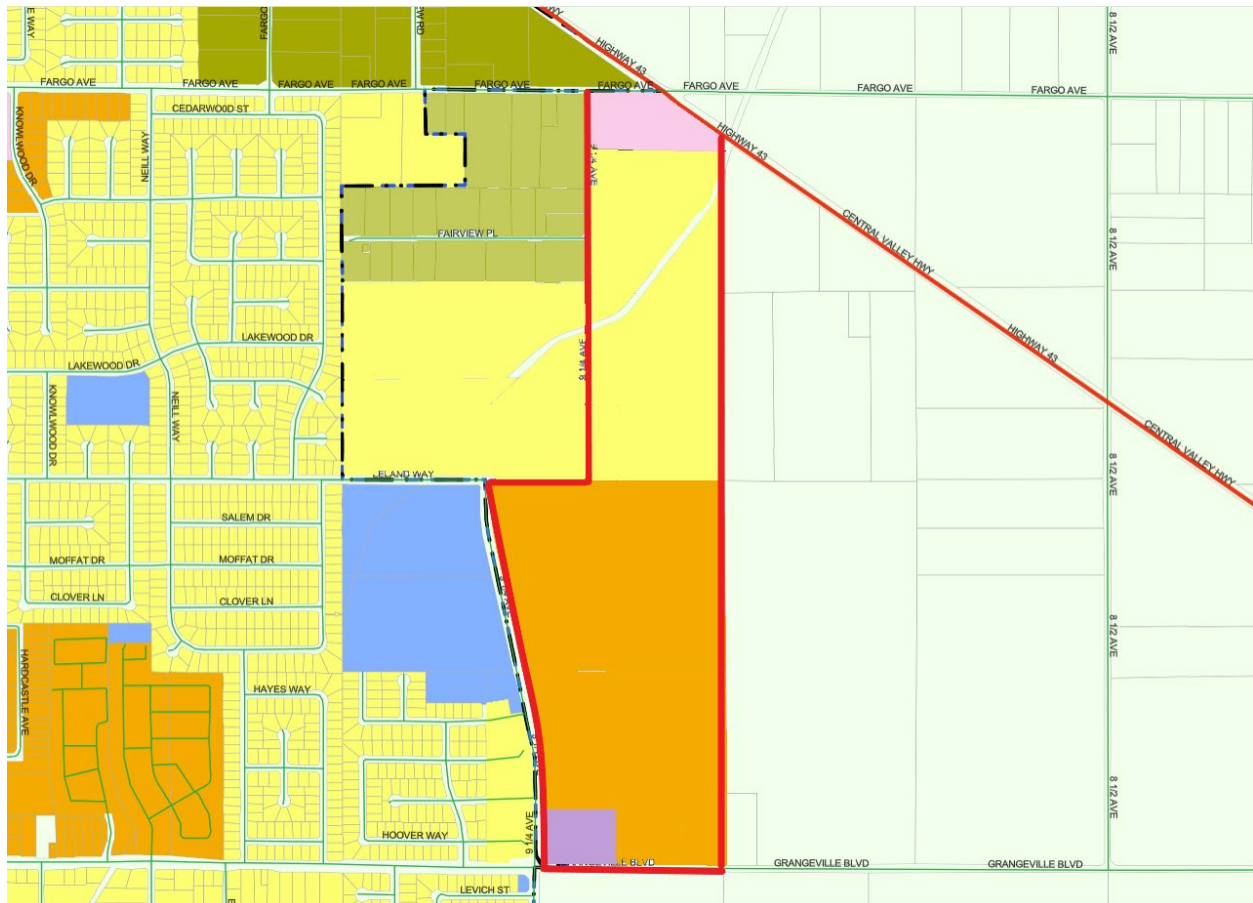
Require that horizontal mixed use developments within the Neighborhood Mixed Use land use designation provide a minimum of thirty percent (30%) and a maximum of seventy percent (70%) of the site for multi-family residential dwellings. Require vertical mixed use developments to provide a minimum of three (3) dwelling units per acre and a minimum of 30,000 square feet of total commercial floor space.

Zoning

The property is currently in the Kings County Jurisdiction and zoned AL-10 Limited Agriculture and RRE Rural Residential.

The property is proposed to be prezoned C-N Neighborhood Commercial, R-L-5 Low-Density Residential, R-M Medium-Density Residential, and MX-N Neighborhood Mixed Use, in accordance with the General Plan and General Plan Amendment No. 0009-24.

Figure 12: Prezone No. 0013-24
(project site outlined in red)



PROJECT EVALUATION

Annexation No. 165

Annexation 165 is a request to annex approximately 141.85 acres into the City of Hanford City Limits from the Kings County Jurisdiction. The annexation area is a combination of the Project Site (83.61 acres) and an area to the north, not proposed to be developed at this time (58.24 acres).

See Figure 1 and **Attachment 1**.

Annexation of land into Hanford allows previously undeveloped land to become available for development and allows the City of Hanford to provide the territory that is annexed with its full range of City services. The annexation process can serve as an interim growth management tool, by limiting annexation to only the land that is needed for growth at the time.

The Hanford Planning Commission is charged with reviewing proposed annexation and making a finding of consistency with the Hanford General Plan to forward to the City Council. The Planning Commission will need to find that Annexation 161 is consistent with the Hanford General Plan Policy L15 and L17.

Policy L15 Initiation of Annexations

Consider initiation of annexation of land into the City of Hanford only when the following criteria are met:

1. The land is within the Primary Sphere of Influence.

Analysis: The property proposed to be annexed is within the City's Primary Sphere of Influence, as shown in **Attachment 3**.

2. The capacity of the water, sewer, fire, school, and police services are adequate to service the area to be annexed or will be adequate at the time that development occurs.

Analysis: A Plan for Services has been prepared by Engineering for Water, Sanitary Sewer, and Storm Drainage – see **Attachment 4**.

Fire and Police

Fire and police services are adequate to service the area to be annexed. Impacts to fire and police services will be mitigated through payment of impact fees.

School

Since the proposed Project includes the addition of 650 residential units, the number of students in the school district will increase. The Project will pay school development impact fees to the school districts at the time of building permit issuance in compliance with Education Code Section 17620 and Government Code Section 65995 et. Seq. These fees are used to construct new or expanded school facilities.

The City's role in development and managing school sites and programs is limited. The various school districts truly govern where a new school site would be located and when it would be necessary to construct or expand facilities, in order to adequately accommodate population growth. Elected governing school boards are responsible for budgeting and decision-making and the State Department of Education establishes school site and construction standards. The General Plan provides policy which focuses on collaboration with school districts in determining new school locations and utilizing school facilities for general public needs. School districts would be able to utilize the General Plan, along with other plans, standards, and codes, to establish new school sites and to make decisions on school amenities and cohesiveness with the surrounding area.

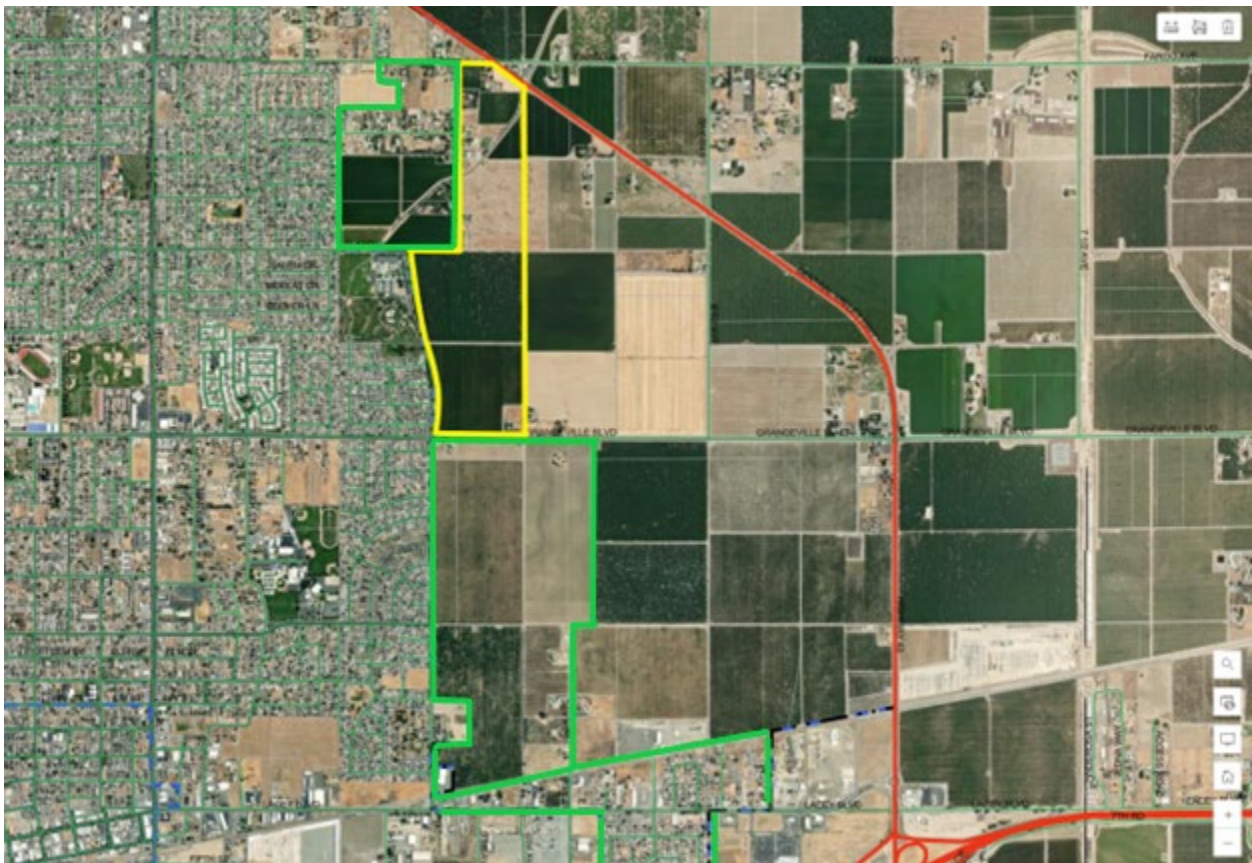
3. Land for development within the City limits is insufficient to meet the current land use needs.

Analysis: The applicant is proposing an 83.61-acre development in the northeast planning area. Available land for new development within the City limits is limited. Within the existing City limits, the majority of the property available for residential development has been developed or has been entitled. The proposal is considered implementation of the General Plan.

4. The territory to be annexed is contiguous to existing developed areas.

Analysis: The territory to be annexed is directly contiguous to the current City limits to the north and west. Three annexations are in progress west and south of the project site – shown in green.

Figure 13: Annexations in Progress



Policy L17 Plan for Services

Prepare and make publicly available a written Plan for Services that describes how urban services will be provided prior to initiating an annexation.

Analysis: A Plan for Services is attached (**Attachment 4**).

Favorable Factors for Annexation

Favorable and unfavorable factors for annexation have been adopted by LAFCO. The existence of favorable or unfavorable factors should not decide approval or denial; however, a substantial number of favorable or unfavorable factors may determine approval or denial of the proposal.

1. The proposed area is close to urban development and municipal-type services and would enhance its potential for full development.

Analysis: The proposed area is close to the existing City limits and is a logical extension of the City. The annexation area can be served by municipal-type services. The annexation area is designated as a combination of Low-Density Residential, Medium-Density Residential, and Neighborhood Commercial by the General Plan and is proposed to be designated as a combination of Low-Density Residential, Medium-Density Residential, Neighborhood Commercial, and Neighborhood Mixed Use, in accordance with the proposed General Plan Amendment. This area has been considered for urban development by the General Plan and is necessary to accommodate growth within the City of Hanford.

2. The proposed annexation conforms to the adopted General Plan.

Analysis: The annexation area is designated as a combination of Low-Density Residential, Medium-Density Residential, and Neighborhood Commercial by the General Plan and is proposed to be designated as a combination of Low-Density Residential, Medium-Density Residential, Neighborhood Commercial, and Neighborhood Mixed Use, in accordance with the proposed General Plan Amendment. This area has been considered for urban development by the General Plan and is necessary to accommodate growth within the City of Hanford. The southern portion of the annexation area, considered the development area, is proposed to be developed as shown in Tentative Tract 945. Tentative Tract 945 proposes the development of 650 residential units (350 single-family and 300 multi-family), as well as 5.45 acres of commercial development. The development is consistent with the proposed General Plan Amendment No. 0009-24. All findings have been made in order to support the General Plan Amendment. The northern portion of the annexation area is not proposed to be developed, at this time. The annexation is consistent with the General Plan, as proposed to be amended.

The annexation is consistent with the General Plan Section 3.2.4, which states, “Annexation of land into Hanford allows previously undeveloped land to become available for development and allows the City of Hanford to provide the territory that is annexed with its full range of City services.” The annexation area is also consistent with Policy L15 and L17 of the General Plan, as analyzed above.

3. The proposed area is consistent with the sphere of influence.

Analysis: The property proposed to be annexed is within the City’s Primary Sphere of Influence, as shown in **Attachment 3**.

4. The proposed annexation comes with 100% consent of all landowners.

Analysis: **Unable to make finding.** The annexation area comes with consent of two property owners; however, the remaining property owners have not consented to the annexation.

Vesting Tentative Tract 945 and Planned Unit Development No. 0037-24

Tentative Tract 945 (Copper Ridge) is a request, by N&M Capital, LLC, to subdivide 83.61 acres of the annexation area into a 650-unit multi-family (300 units) and single-family (350 units) residential subdivision and a 5.45-acre Neighborhood Mixed Use site.

See proposed subdivision – **Attachment 2**.

Planned Unit Development No. 0037-24

Planned Unit Development No. 0037-24 is a request to allow various deviations from the regulations of the R-M Medium-Density Residential zone district for the residential subdivision, proposed under TT 945, including reduced lot size, lot width, lot depth, and setbacks. The PUD also proposes the removal of the block wall requirement between the MX-N Neighborhood Mixed Use site and the R-M Medium-Density Residential development to allow for integration between the sites.

Elevations are proposed for the subdivision and will be required as a condition of the Planned Unit Development. The elevations are considered enhanced and will provide a cohesive subdivision theme– **Attachment 5**.

Figure x: Copper Ridge Elevations and Renderings





© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

A - STYLE



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

B - STYLE



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

C - STYLE



The requests for deviations are as follows:

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet
	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-feet wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.
§ 17.24.130 Screening, fences, and walls.	A block wall with a minimum height of seven (7) feet shall be provided along any side or rear lot line that abuts an R-L, R-M, R-H, OR, PF, AP, or CO zone district.	Deviation request to remove the block wall requirement between the MX-N and R-M zone district to allow for integration and mixed uses between sites.

APN(s): 014-143-069 and 014-143-078

Total Area: 83.61 acres

Number of Dwelling Units: 650 units; 350 single-family residential dwelling units; 300 multi-family units

Units per acre: 8.31 units per gross acre of Medium-Density Residential development

Potential population increase: 3.08 persons per household x 650 households = 2,002 persons

Conformance with the R-M Medium-Density Residential Zone District Regulations

The residential portions of Tentative Tract 945 have been evaluated for conformance with the R-M Medium-Density Residential zone district regulations, consistent with the proposed rezoning of the site.

17.12.030 Lot area.

Smallest	Largest	Required in R-M
2,800 sq. ft.	11,540 sq. ft.	5,000 sq. ft.

In the R-M Medium-Density Residential zone district, the minimum lot size shall be 5,000 square feet, except as prescribed in Section 17.12.100, which allows lot area between 3,600 square feet and 4,999 square feet.

Analysis: The minimum lot size provided in Tentative Tract 945 is 2,800 sq. ft., which is a proposed deviation through Planned Unit Development No. 0037-24.

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.

17.12.040. Lot dimensions

Lot Frontage

In the R-M Medium- Density Residential zone district, the minimum lot frontage shall be 40 feet.

Analysis: There is a minimum of 40 feet of lot frontage provided for all lots within the subdivision.

Lot Width

In the R-M Medium-Density Residential zone district, there shall be a minimum lot width of 50 feet for interior lots and 60 feet for corner lots.

Analysis: All interior lots are a minimum of 40 feet wide, and each corner lot is a minimum of 45 feet wide, which is a deviation proposed through Planned Unit Development No. 0037-24.

Lot Depth

In the R-M Medium-Density Residential zone district, the lot depth shall be a minimum of 90 feet.

Analysis: The minimum lot depth proposed in the subdivision is 70 feet, which is a deviation proposed through Planned Unit Development No. 0037-24.

Lots developed adjacent to an arterial or collector street are to be designed as walled or fenced back-on or side-on lots with a minimum five and maximum 10 foot wide landscape easement

continuous and adjacent to the street right-of-way line. The minimum lot dimensions are to be exclusive of the landscape easement area. The wall or fence shall be located in the landscape easement area adjacent to the easement line.

Analysis: 9th Avenue is an arterial road, which borders the proposed subdivision to the east. 9 ¼ Avenue and Leland Avenue are designated collectors along the subdivision's exterior. Lots backing onto the adjacent arterial and collector streets are separated by a block wall and a 10-foot wide landscape outlot.

Figure 14: Outlot along 9th Avenue

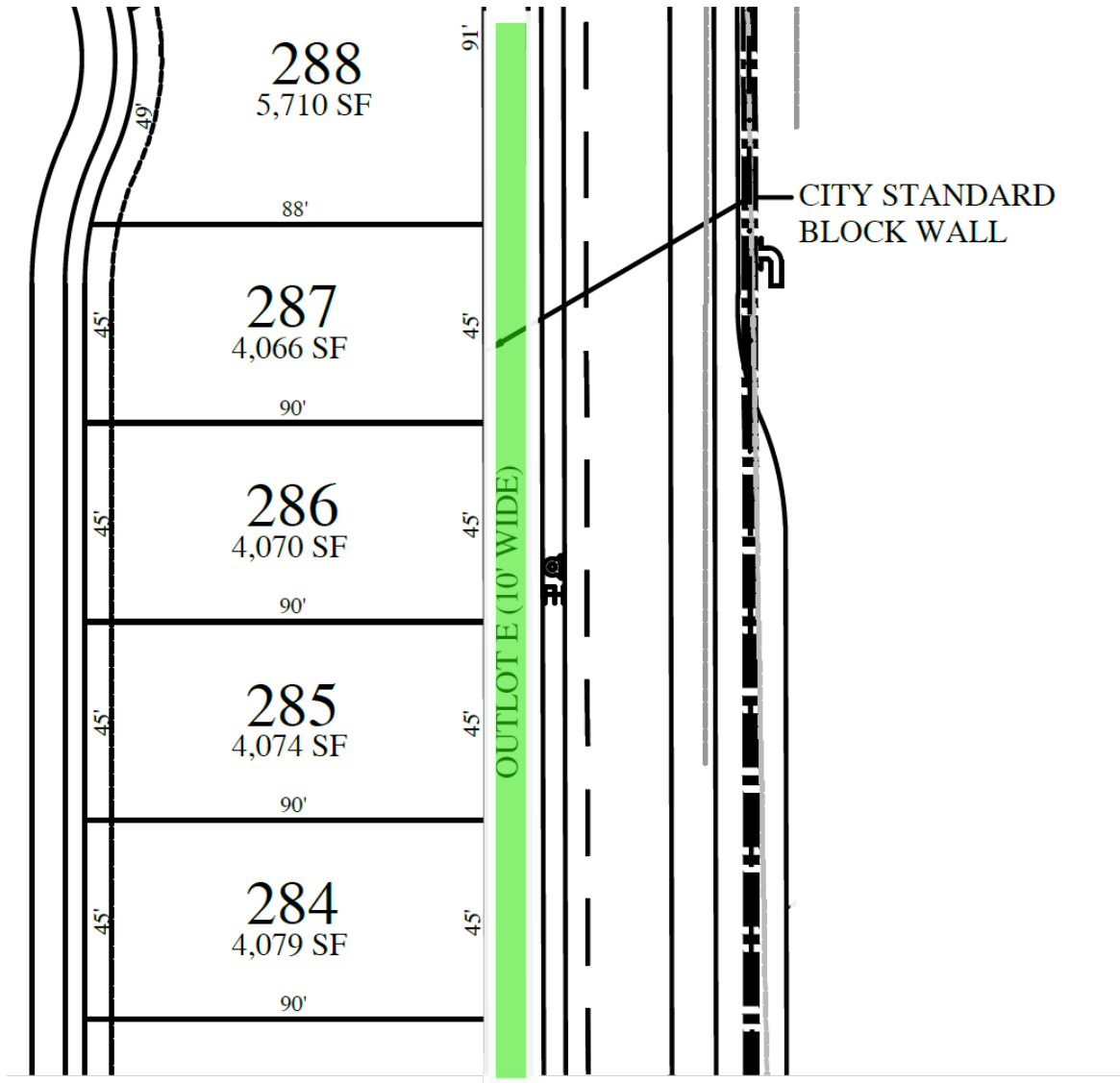


Figure 15: Outlot along 9 ¼ Avenue

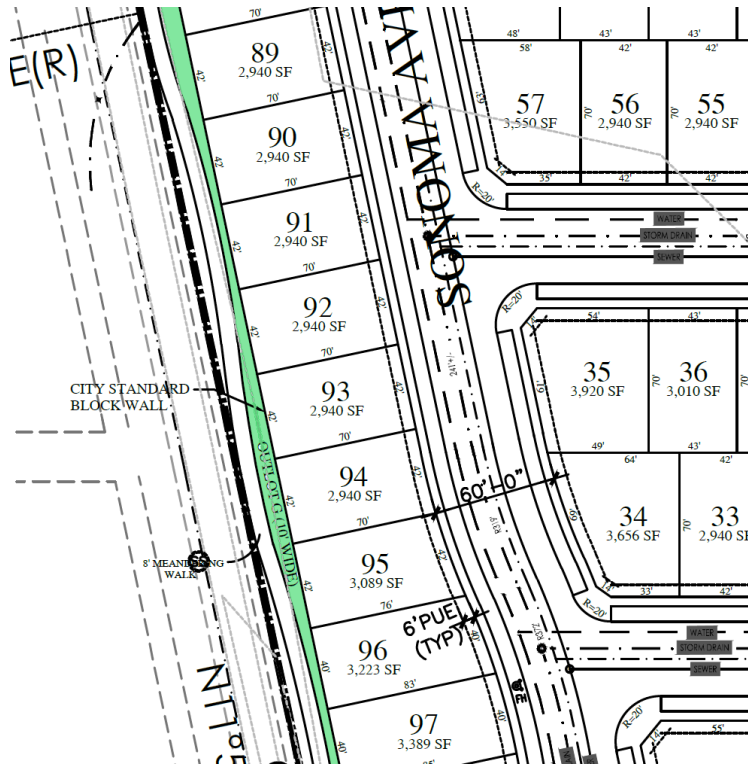
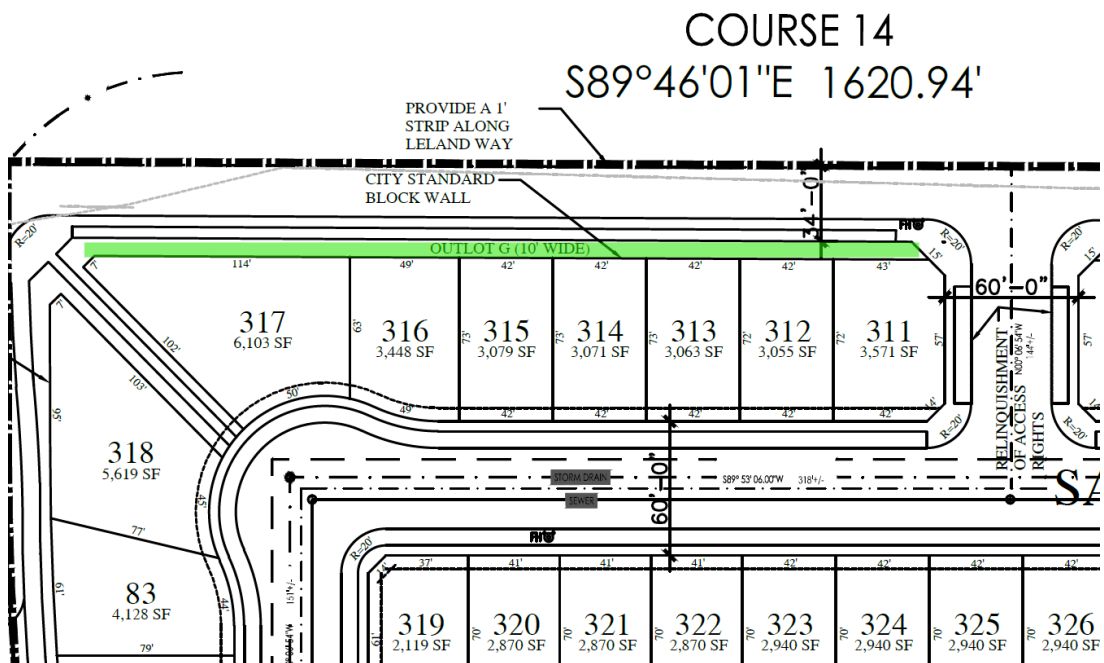


Figure 16: Outlot along Leland Avenue



Section	Requirement	Deviation Requested
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
§ 17.12.040 Lot Dimensions	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet
	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet

Density

In accordance with the General Plan, the expected density range for Medium-Density Residential is between seven and 20 units per gross acre.

Analysis: The density provided for Tentative Tract 945 is 8.31 units per gross acre, which is within the allowable and expected density range for Medium-Density Residential.

17.12.050 Site Area per Dwelling Unit.

The minimum site area per dwelling unit shall be three thousand (3,000) square feet.

Analysis: The applicant proposes to deviate from the site area per dwelling unit requirement in order to permit one unit on a minimum lot of 2,800 sq. ft. through Planned Unit Development No. 0037-24.

Section	Requirement	Deviation Requested
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.

17.12.060 Coverage.

The maximum coverage of a lot shall be determined by the combined building setback area requirements, accessory structure limitations, open space requirements, and off-street parking requirements.

Analysis: As a condition of approval of the subdivision, all building setbacks, accessory structure limitations, and off-street parking requirements shall be observed, as modified through Planned Unit Development No. 0037-24.

17.12.070 Building Setback Areas

In the R-M Medium-Density Residential zone district, no structure shall be placed within a building setback area.

Front

The front building setback area shall be 15 feet from the front lot line for livable building space and 20 feet for garages, carports, and other non-livable building space.

Rear

The rear building setback shall be 15 feet from the rear lot line, except where there is a landscape easement with a wall or fence on the rear of the lot then the rear building setback shall be 20 feet. The rear building setback area shall be increased by 10 feet for buildings over one story high.

Side

The side building setback area shall be five feet from an interior side lot line and 10 feet from a street side property line. Where there is a landscape easement with a wall or fence on the street side of the lot the side yard setback area shall be measured from the easement area instead of the side lot line.

Analysis: The applicant proposes to deviate from the R-M Medium-Density Residential zone district standards to allow reduced livable space and rear-yard setbacks through the Planned Unit Development No. 0037-24:

Section	Requirement	Deviation Requested
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet

Typical lot products are attached, as **Attachment 5**, showing elevations, expected layout, and the setback deviation requested.

17.12.080. Distances between structures.

In the R-M-Density Residential zone district the minimum distance between structures shall be 10 feet, except as provided by the building code.

Analysis: Separation will be provided, as required by the building code.

17.12.090. Height of structures.

In the R-M Medium-Density Residential zone district, the maximum structure height shall be 35 feet.

Analysis: The single-family residences within the subdivision are proposed to be one-and two-stories, which are a nine-foot plate line height for single-story and 18-foot plate line height for two-story. The multi-family duplexes will be one-story. The 8-plex multi-family units will be two-story. As a condition of approval of the subdivision, height requirements shall be observed. Height limitations will be verified upon application for building permits.

17.12.110. Driveways.

In the R-M Medium-Density Residential zone district, the width of a driveway and any paved area shall not cumulatively exceed forty percent (40%) of the width of the lot's street frontage on which the driveway and any paved area faces. In the case of "L" or "U" shaped driveways or other configurations besides perpendicular driveways the paved area of these driveways shall not exceed fifty percent (50%) of the front building setback area.

Typical driveway widths are 16 feet. On a 40-foot lot, a 16-foot driveway accounts for 40% of the frontage width. Therefore, the maximum driveway will not be exceeded, however future paved area will not be allowed for lots already at the maximum paved area. As a condition of approval of the subdivision, driveway requirements shall be observed. Driveway locations and paved surface coverage will be verified upon application for building permits.

17.12.120 Accessory Structures

In the R-M Medium-Density Residential zone district, accessory structures may be located within a required rear or side building setback area, subject to all of the following requirements:

- A. The floor area shall be a maximum 120 square feet.
- B. The walls shall be at least three feet from rear and side lot lines.
- C. The roof eaves shall be at least two feet from rear and side lot lines.
- D. The accessory structure shall be separated from other structures by a minimum of 10 feet.
- E. The plate line height shall be a maximum seven feet high.
- F. The roof pitch shall be a maximum 4:12.
- G. The roof ridge peak height shall be a maximum of 10 feet.

Analysis: The requirements pertaining to accessory structures are communicated to the public, however, the majority of these structures are exempt from building permits and enforced through Code Compliance. Accessory structure placement would be generally precluded for the smaller lots with 10-foot setbacks, since the separation requirements could not be achieved.

17.12.130 Other Setback Standards

In the R-M Medium-Density Residential zone district, the following setbacks shall also apply:

- A. Mechanical equipment shall be located a minimum of five (5) feet from a side lot line that adjoins a neighboring side lot line.
- B. Garages or carports opening onto an alley shall be set back twenty-five (25) feet from the far side of the alley, provided that the structure, including roof overhang, shall not extend into the alley right-of-way.
- C. Above or below ground swimming pools shall be set back five (5) feet from all lot lines where the lot has a landscape easement with a block wall on the rear or side, the setback shall be taken from the inside of the wall to the water's edge.

- D. Decks, balconies, and other types of platforms with a floor height over two (2) feet high shall be set back five (5) feet from the rear and interior side lot lines and ten (10) feet from the street side lot line.
- E. Garages and carports opening on the street side lot line of a corner lot shall be set back twenty (20) feet from the street side lot line.

Analysis: As a condition of approval of the subdivision, all setbacks requirements shall be observed, except as expressly modified through the PUD. The setback requirements will be verified upon application for building permits.

17.12.140. Off-street parking.

Off-Street Parking Requirements:

Off-street parking and off-street loading facilities shall be provided on the site for each use as prescribed in Chapter 17.54.

In the R-M Medium-Density Residential zone district, single-family dwellings shall provide a minimum of one covered and one uncovered parking space. Multi-family parking is required, as follows:

Table 17.54.040	
Number of Parking Spaces	
Land Use	Parking Space Requirement
Multifamily dwelling, Studio or SRO (no bedroom)	1 space per dwelling unit
Multifamily dwelling, 1-bedroom	1.5 spaces per dwelling unit; 50% of the spaces shall be covered parking
Multifamily dwelling, 2-bedroom	1.75 spaces per dwelling unit; 50% of the spaces shall be covered parking
Multifamily dwelling, 3 or more bedrooms	2 spaces per dwelling unit; 50% of the spaces shall be covered parking
Single- or multifamily dwelling specifically for seniors 55 years of age or older	1 space per dwelling unit or 1 space for every 4 beds

Required parking spaces may not be provided in any front, side, or rear building setback area. Except for driveways allowed in the front building setback area, all additional parking for residential uses shall be to the rear or side of the dwelling. No parking shall occur in the front or street side building setback areas.

Recreational Vehicles:

No recreation vehicle, including without limitation camping trailer, boat trailer, utility trailer, boat, pickup camper, motor home, dune buggy, or similar vehicle/trailer shall be stored or parked, except

within an enclosed side or rear yard or within a garage or carport except if a side or rear yard is not accessible due to existing legal permanent structures, a recreational vehicle or trailer may be parked in a driveway or adjacent to a driveway if it does not create a nuisance or safety problem as determined by the Community Development Director. All recreational vehicles or trailers parked in a location visible from the street are to be clean and maintained so as not to detract from the neighborhood. Also, see Chapter 10.76 of the Hanford Municipal Code. No recreational vehicle or trailer shall be used as a residence.

Vehicles Incapable of Movement Under Their Own Power

All motor vehicles incapable of movement under their own power, other than in cases of emergency, shall be stored in an entirely enclosed space, garage, or carport. Vehicles with custom fitted covers may be stored in an open area when it does not create a nuisance or safety problem as determined by the Community Development Director, cause complaints from neighbors or violate any section of this code.

Repair of vehicles owned by the resident of the property and storage of parts shall be within an enclosed garage or carport, if no garage exists. Repair of vehicles not owned by the resident of the property is prohibited. Vehicle repair and storage of parts are prohibited in a driveway and the front or street side building setback areas. I. Garages and carports are to be primarily used for the parking of four-wheeled vehicles. The use of garages or carports for general storage, recreation activities or other uses that prevent the use of the garage or carport for the parking of at least one four-wheeled vehicle is prohibited.

Analysis: The above requirements pertaining to off-street parking, recreational vehicles, vehicles incapable of movement under their own power, and repair of vehicles appear as conditions of approval of the resolution for the subdivision.

17.12.150. Usable open space.

In the R-M Medium-Density Residential zone district:

Lots with four (4) or less dwelling units shall provide for a usable open space area of a minimum three hundred (300) square feet per dwelling unit. The open space shall be a minimum fifteen (15) feet wide. Lots with five (5) or more dwelling units shall provide for a usable open space area equal to five percent (5%) of the lot area. Where multiple lots that together make up a single development site, the required open space may be combined into common open space areas that are accessible to all residents of the site.

Analysis: The applicant seeks to allow a deviation from the minimum open-space width through the Planned Unit Development. Open space square footage will be provided within the backyard of the single-family residences with a minimum 10-ft. width. On 40-ft.-wide lots, 400 feet of open space will be provided (10' x 40'). Open space is required in the multi-family project sites equal to five percent of the lot area. For Phase 4, a minimum of 20,200 square feet of open space will be required, based on 404,000 sq. ft. of site area. For Phase 5, a minimum of 10,183 square feet of open space will be required, based on 203,665 sq. ft. of site area. The multi-family open space requirements will be verified during Site Plan Review for the multi-family portions of the development, conceptually, the required open space has been provided, as required.

Figure 18: Phase 4 Open Space, approximately 25,214 sq. ft.



In the R-M Medium-Density Residential zone district, the following landscape standards shall apply:

- A. Landscaping shall be provided for each use as prescribed in Section 17.52 Landscape Standards.
- B. Except for driveways and approved parking areas, all yard areas and setback areas visible from the street(s) shall be landscaped with live plant materials and ornamentation common to the Hanford area or up to one hundred percent (100%) of the yard and setback area may be landscaped with artificial turf and other permeable surfaces.
- C. Required landscaping is to be installed within six (6) months after occupancy of the residence, apartment or office and continually maintained pursuant to Chapter 17.52
- D. Landscaped areas are not to be used or converted to parking areas or any other use which results in the damage or removal of the landscaping. However, the widening of an existing paved driveway perpendicular to the street is permitted if the total width of the existing paving and the new paving does not exceed forty percent (40%) of the lot frontage along the street.
- E. In order to provide a tree lined street in the residential zone districts, the following requirements shall be provided in the required parkway:
 - 1. Two (2) street trees, a minimum fifteen (15) gallon size, shall be planted on all lots 6,000 square feet or greater. One of the two (2) front yard trees must be planted twelve (12) feet (no greater or no less) from the face of the front lot line street curb.
 - 2. One (1) street tree, a minimum fifteen (15) gallon size, shall be planted on all lots less than six thousand (6,000) square feet. The tree shall be planted in the parkway. If there is no parkway the tree shall be planted four (4) feet behind the sidewalk, or if there is no sidewalk then four (4) feet behind the street curb.
 - 3. There shall be two (2) additional street trees, a minimum fifteen (15) gallon size, planted on all corner lots in the parkway adjacent to the street side lot line.
- F. Front yard landscaping. If front yard landscaping is provided by the builder, a prototype landscape plan is required when a building permit is requested to show that the trees will be planted as stated above. The front yard landscaping is to be installed within thirty (30) days from final building inspection approval. If front yard landscaping is not provided by the builder a fee of fifty dollars (\$50.00) for each required tree shall be collected when a building permit is requested. When the house is occupied, the builder, within thirty (30) days, is required to plant one fifteen (15) gallon tree at the twelve (12) foot setback line from the street curb. If the homeowner plants the remaining three (3) trees as described above within one year of occupancy, the homeowner will be reimbursed the fifty dollars (\$50.00) per tree up to three (3) trees. The builder will be reimbursed the fifty dollars (\$50.00) for the required tree at the twelve (12) foot line.
- G. On corner lots where the house and garage both front toward the front of the lot the area between the fence and back of sidewalk along the street side lot line shall be landscaped

with two (2) of the four (4) required street trees and with live ornamental bushes and shrubs with an automatic irrigation system at the time of house construction.

Analysis: Landscaping permits will be required for the single-family lots and the multi-family developments. The above requirements are conditions of approval of the project.

17.12.170. Screening, Fences, and Walls.

Fences and walls shall be provided on the site for each use in accordance with Section 17.50.120.

Analysis: As a condition of approval of the subdivision, wall placement shall be observed and will be verified where a building permit is required.

17.12.180. Signs.

Signs placed in the R-M zones shall be subject to the requirements and standards prescribed in Chapter 17.56.

Analysis: Signage for the single-family residences are generally limited to temporary signs (political signs), and subject to the requirements of Chapter 17.56. Signage for the multi-family portions of the development will be required to adhere to the table below. A sign permit will be required to be submitted.

Table 17.56.090(A)		
Number and Size of Permanent Signs by Zone		
Zone District	Building Signs	Freestanding Signs
AP, R-L, R-M, and R-H zones with 4 or less residences per site	1 sign per residence maximum. 4 sq. ft. maximum size per sign. Placement a maximum 8 feet high. External illumination only. None allowed.	
AP, R-M, and R-H zones with 5 or more residences per site or with nonresidential uses on site	1 sign per street frontage maximum. 30 sq. ft. maximum size per sign. Placement a minimum 5 feet below roofline. External illumination only.	1 sign per site maximum. 20 sq. ft. maximum size. 6 feet high maximum. External illumination only.

17.10.190. General Provisions and Standards.

Structures and the use of structures or land shall be subject to the requirements and standards prescribed in Chapter 17.50.

Conclusion: All requirements of the R-M Medium-Density Residential zone district are satisfied in the proposed subdivision, with the deviations permitted through the planned unit development, or will be satisfied by conditions of approval for future building permits.

Conformance with the MX-N Neighborhood Mixed Use Regulations

The commercial portion of Tentative Tract 945 has been evaluated for conformance with the MX-N Neighborhood Mixed Use zone district regulations, consistent with the proposed rezoning of the site.

17.24.020 Permitted uses

Uses shall be permitted or not permitted, conditionally permitted, administratively permitted, or temporarily permitted as prescribed in the land use table in Section 17.08.030.

Analysis: Although the development of the commercial shopping center is conceptual, it is estimated that it may include two fast food restaurants, two general retail stores, and one gasoline/diesel fueling station with an associated mini mart. The uses proposed are allowed within the MX-N Neighborhood Mixed Use zone district. Since the commercial portion of the site is considered conceptual, a Site Plan Review will be required for development of the site in the future. All uses proposed for the site will be required to adhere to the land use table and allowable uses in the MX-N Neighborhood Mixed Use zone district.

Figure 20: MX-N Uses

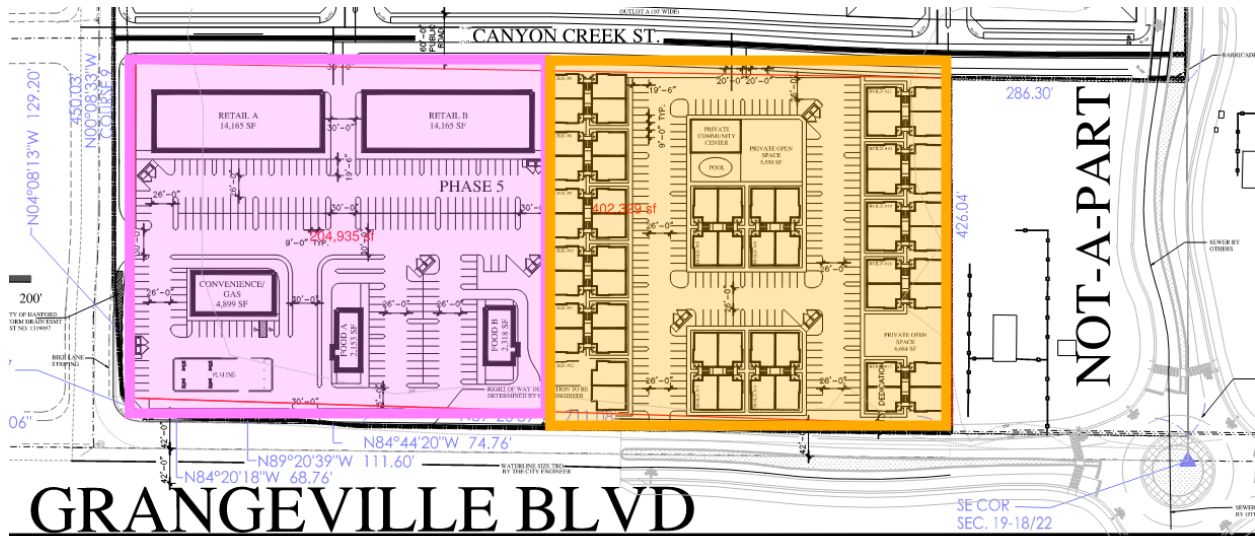
Commercial, Office, and Industrial Use Table			
P = Use is Permitted by Right C = Use Requires Conditional Use Permit A = Use Requires Administrative Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed			
Land Uses		MX-N	Specific Land Use Standards (See identified Section)
B5	Restaurant, full service	P	
B6	Restaurant, limited service with drive-thru pickup window	P	17.60.070
	Retail Uses		
I6	Automobile and/or motorcycle parts (retail), no installation	P	
I10	Convenience store, with or without fuel sales	P	
I27	Retail sales store	P	

17.24.030 Site area

In the MX-N Neighborhood Mixed Use zone district the minimum site area shall be five thousand (5,000) square feet, unless a smaller site is approved with a conditional use permit in accordance with Chapter 17.80. Between twenty-five percent (25%) and seventy-five percent (75%) of the contiguously zoned parcels in an MX-N zone shall be reserved for residential use.

Analysis: The MX-N Neighborhood Mixed Use portion of the development is 5.45 acres. The entirety of Phase 5 of Tentative Tract 945 is approximately 9.23 acres. Therefore, the residential to commercial percentage is approximately 60% commercial to 40% residential.

Figure 21: MX-N and R-M Ratio



17.24.040 Lot dimensions.

The minimum lot frontage shall be forty (40) feet, unless a reciprocal use agreement for shared common access and parking areas is recorded with the Kings County recorder's office.

Analysis: The MX-N Neighborhood Mixed Use parcel has approximately 400 feet of street frontage on 9 1/4 Avenue and 500 feet of street frontage on Grangeville Boulevard and future Canyon Creek Street.

17.24.050 Coverage.

The maximum coverage of a lot shall be determined by the combined building setback area requirements, open space requirements, and off-street parking and loading requirements.

Analysis: The requirements for setbacks, open space, and off-street parking and loading are addressed below.

17.24.60 Building setback areas

In the MX-N Neighborhood Mixed Use zone district, no structure shall be placed within a building setback area.

The front building setback area shall be fifteen (15) feet.

Analysis: Since development of the commercial portion of the site is conceptual and lot lines have not been identified, the front lot line cannot be identified at this time; however, all structures are setback a minimum of 15 feet from a lot line abutting a street; therefore, the front yard setback is able to be satisfied. Future development of the commercial portion of the site will require Site Plan Review, where the lot lines will be clearly defined and the setback required to be satisfied.

The rear building setback may be zero (0) feet from the rear lot line, except where the rear lot line abuts a public street or an R-L, R-M, R-H, OR, O, PF, AP, or CO zone district then the rear building setback shall be fifteen (15) feet.

Analysis: Since development of the commercial portion of the site is conceptual and lot lines have not been identified, the rear lot line cannot be identified at this time. Future development of the commercial portion of the site will require Site Plan Review, where the lot lines will be clearly defined and the setback required to be satisfied.

The side building setback area shall be zero (0) feet, except where the side lot line abuts a public street or an R-L, R-M, R-H, OR, O, PF, AP, or CO zone district then the side building setback area shall be fifteen (15) feet.

Analysis: Since development of the commercial portion of the site is conceptual and lot lines have not been identified, the side and street-side lines cannot be identified at this time. Future development of the commercial portion of the site will require Site Plan Review, where the lot lines will be clearly defined and the setback required to be satisfied.

17.24.070 Distances between structures.

The minimum distance between a structure used solely for residential purposes and another structure shall be ten (10) feet, except as provided by the building code.

Analysis: There are not residential uses proposed within the MX-N Neighborhood Mixed Use portion of the site, however residential uses are proposed east of the MX-N zone in the R-M zone. A 15-ft setback will be required between the MX-N and R-M zone, therefore, the 10-ft. minimum distance between a structure used solely for residential purposes and another structure will be satisfied and verified during site plan review.

17.24.080 Height of structures.

In the MX-N Neighborhood Mixed Use zone district, the maximum structure height shall be thirty-five (35) feet.

Analysis: The development of the commercial portion of the site is conceptual. A 35-ft height limitation will be a condition of approval and verified during future site plan review for the site's development.

17.24.090 Driveways.

In the MX-N zone district, wherever possible developments shall share driveways to minimize the number of driveways on public streets. New driveways near street corners shall be located a minimum one hundred (100) feet from the radius curve of the curb, unless otherwise specifically approved by the City Engineer.

Analysis: The commercial portion of the site is considered conceptual. On the conceptual plan, the driveway is shown setback 195 feet from the radius of the curb on 9 ¼ Avenue and 200 feet from the

radius of the curb on Grangeville Boulevard and future Canyon Creek Street. Ultimate driveway locations will be verified during Site Plan Review.

17.24.100 Off-street parking

Off-street parking and off-street loading facilities shall be provided on the site for each use as prescribed in Chapter 17.54.

Analysis: Parking requirements will be verified during Site Plan Review. Conceptually, parking has been provided, as shown in the table below:

PARKING INFO

LAND USE	REQUIRED	PROVIDED
CONV./GAS	17	38
FOOD A	15	25
FOOD B	16	30
RETAIL A	48	61
RETAIL B	48	60

Parking requirements and provision of parking spaces will be reviewed and required during site plan review.

17.24.110 Usable open space

New commercial developments shall provide a common outdoor, shaded sitting area for use by customers. The size of this area shall be a minimum two hundred fifty (250) square feet per acre of site area.

Analysis: Open space has not been identified within the conceptual site plan. Open space will be required to be provided within the commercial site's development and will be verified during Site Plan Review.

17.24.120 Landscaping

In the MX-N Neighborhood Mixed Use Landscaping shall be provided for each use as prescribed in Section 17.52 Landscape Standards. Landscaping shall be provided and permanently maintained in the required setback area from a lot line adjoining a street. Required landscaping is to be installed prior to occupancy and continually maintained pursuant to Chapter 17.52.

Analysis: Landscaping has not been identified within the conceptual site plan. Landscaping will be required to be provided within the commercial site's development and will be verified during Site Plan Review.

17.24.130 Screening, fences, and walls.

A block wall with a minimum height of seven (7) feet shall be provided along any side or rear lot line that abuts an R-L, R-M, R-H, OR, PF, AP, or CO zone district.

Analysis: Although conceptual, a block wall is not provided between the MX-N Neighborhood Mixed Use portion of the site and the R-M Medium-Density Residential designation to the east. A block wall would separate the uses and not provide horizontal mixed use integration. Through the planned unit development, removal of the block wall requirement is sought. Upon Site Plan Review, if pedestrian access between the site is limited and the sites not intended to be integrated, a block wall shall be provided.

C. No fence or wall shall be placed in front of or within any landscaped area located next to a street.

D. The open storage of materials and equipment attendant to a use shall be permitted only within an area surrounded or screened by a solid wall or fence seven (7) feet minimum in height. Such storage shall not be visible above the fence or wall.

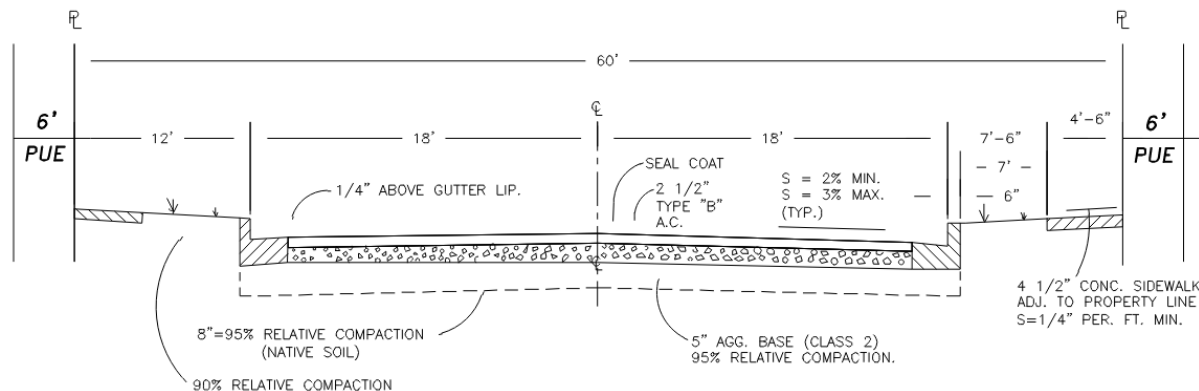
Subdivisions Improvements

Street Improvements:

The improvements consisting of sanitary sewers, storm sewers, water mains, communication conduit, concrete curbs, gutters, sidewalks, street lights, street subgrading and surfacing, signage and striping and all other improvements are required to be installed in accordance with Chapter 16.24 "Improvements" of the Hanford Municipal Code, the City of Hanford's Active Transportation Plan (ATP), and the resolution pertaining to subdivision improvements in effect at the time of filing the tentative map.

All corner lots will be required to meet the requirements of California's daylighting law ([Assembly Bill 413](#)), which prohibits parking within 20 feet of a crosswalk, marked or unmarked, to improve visibility and pedestrian safety. This statewide law, which went into effect January 1, 2024, began being enforced with citations on January 1, 2025. The goal is to give drivers more time to see pedestrians and cyclists approaching or crossing intersections, regardless of whether the curb is painted red. All streets within the subdivision will be developed to residential street standards (City standard ST-32 and ST-39 with a traffic index of 6, except the following:

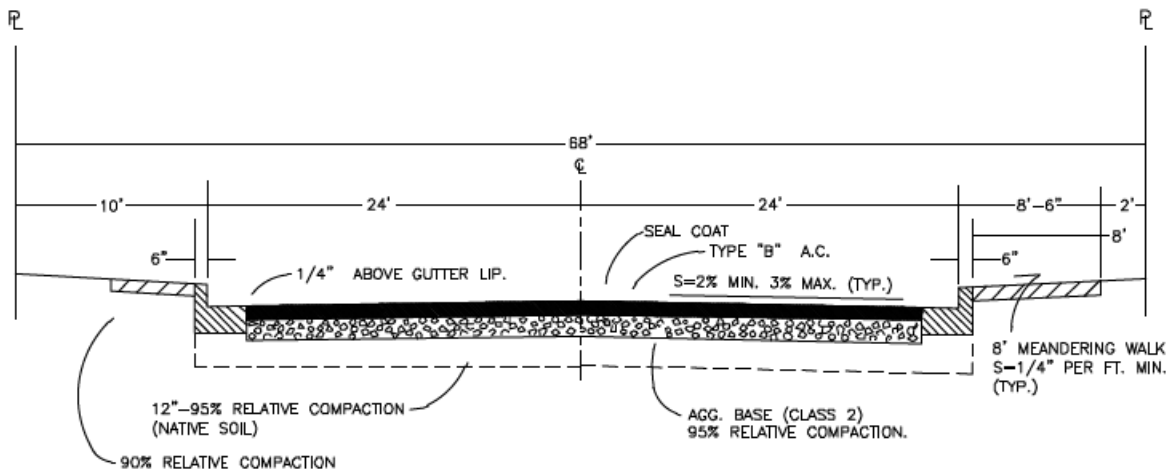
Figure 22 Local Streets



LOCAL STREETS

- a) 9 ¼ Avenue shall be developed as a Minor Collector street with an 68 foot right of way width in conformance with City Standard. ST-17 and ST-26 and the City of Hanford's ATP, and a traffic index of 9. Developer shall be required to construct the remaining width of right of way on the east side of 9 ¼ Avenue from Grangeville Boulevard to Leland Avenue.

Figure 23 - 9 ¼ Avenue

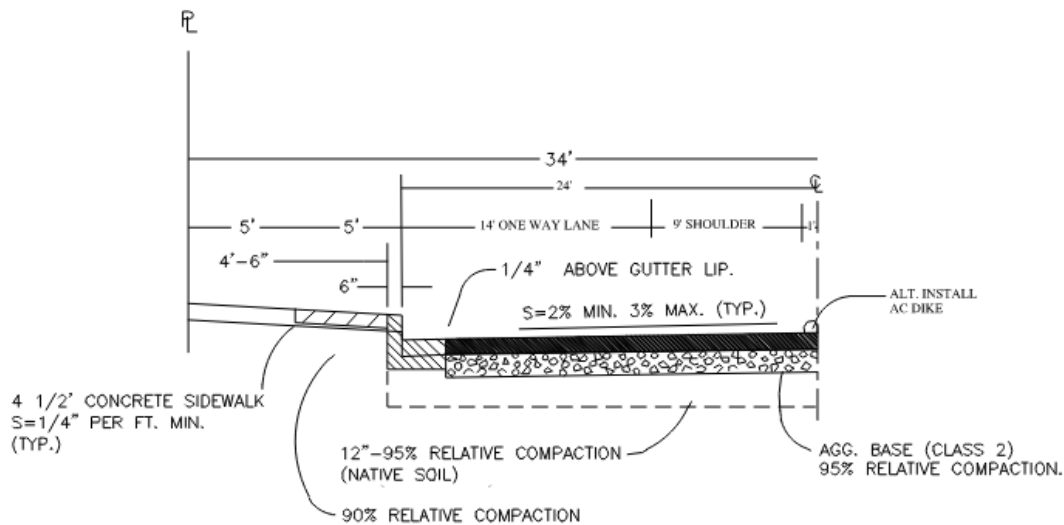


9 1/4 AVENUE

N.T.S.

- b) Developer shall construct the extension of Leland Avenue as a Minor Collector street with a 68' ultimate right of way width between 9 ¼ Avenue and 9th Avenue in conformance with City Standard ST-17 and ST-26 and the City of Hanford's ATP, and a traffic index of 9. Developer shall construct Leland Avenue to the centerline (half width) of ultimate width creating 2-eleven foot travel lanes. An asphalt dike shall be installed along the westbound travel lane edge of pavement for the full length of the Leland Avenue project frontage. To align the half width street section with the existing lane alignment established on the west side of 9 ¼ Avenue, the developer shall remove the existing lane striping and reinstall a temporary transition stripe in conformance with the Highway Design Manual to align with the travel lanes on the east side of the intersection. Stop signs, stop limit lines and stop legends shall be installed in all directions of the Leland Avenue and 9 ¼ Avenue intersection per City Standard Detail ST-47.

Figure 24 - Leland Way

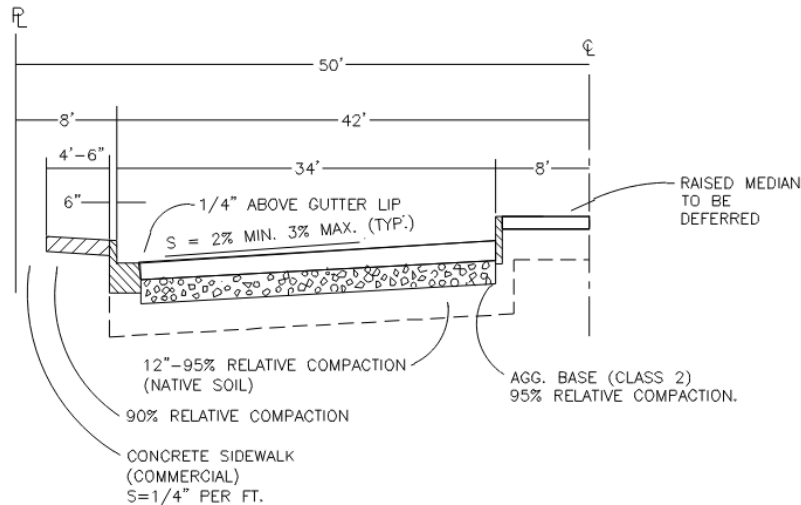


LELAND WAY ➔

N.T.S.

- c) Developer shall construct 9th Avenue as an Arterial Street with a 100 foot ultimate right of way width in conformance with City Standard Detail ST-20 and the City of Hanford's ATP with a traffic index of 11. Developer shall be required to construct half of the raised median width for the full length of the 9th Avenue project frontage in conformance with City Standard Detail CO-17 and CO-18. Turn pockets associated with the ultimate raised median design shall be delineated using 48" high visibility delineators in conformance with CA.M.U.T.C.D. To allow for northbound and southbound traffic on 9th Avenue, a temporary centerline striping shall be installed. A timber barricade per City Standard Detail GE-59 shall be installed on 9th Avenue at the south project boundary. Additionally, the developer will be required to coordinate with the ongoing CIP project on 9th Avenue. The coordination will include, but not be limited to, the ultimate road alignment and location requirements of the CIP Engineering Division.

Figure 25 – 9th Avenue

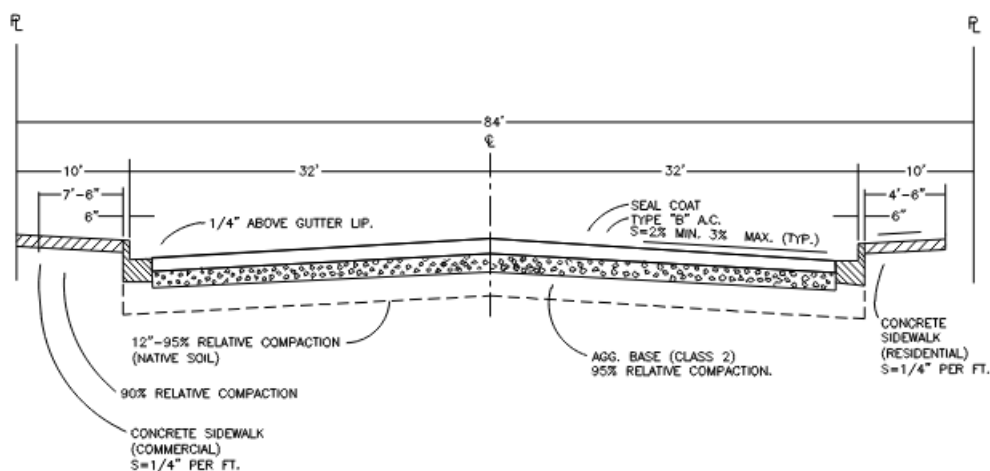


9TH AVENUE

N.T.S.

- d) Grangeville Boulevard shall be developed as a Arterial Street with a modified right of way width of 84 foot in conformance with City Standard Detail ST-17 and ST-20 and the City of Hanford's ATP, with a traffic index of 11. Developer shall be required to construct the remaining width of right of way on the north side of Grangeville Boulevard between 9 1/4 Avenue and the eastern boundary of the project. A pavement transition shall be required beyond the east project boundary. The developer shall in good faith attempt to obtain an easement for purposes of pavement transition, and provide documentation of such attempt. Additionally, the developer will be required to coordinate with the ongoing CIP project on Grangeville Boulevard. The coordination will include, but not be limited to, the ultimate road alignment and location requirements of the CIP Engineering Division.

Figure 26 -Grangeville Boulevard



GRANGEVILLE BLVD

N.T.S.

That streetlights be installed throughout the interior of the development and along project frontages in conformance with City standard GE-56. Streetlights shall be located as designated by City Engineer.

That the development is subject to a transportation mitigation impact fee as required by City Ordinance No. 90-09 and any revisions thereof. Developer shall be entitled to a credit against subject development fee for oversizing of roadway improvements for increased traffic index constructed by developer within Grangeville Boulevard, 9 ¼ Avenue, Leland Avenue and 9th Avenue. Additionally, the developer shall be entitled to credit against the construction of 9th Avenue as determined by the City of Hanford Development Impact Fee Study dated September 2019.

Backup Parkway Improvements

The developer shall design and construct the following improvements along 9 1/4 Avenue, Leland Avenue, 9th Avenue and Grangeville Boulevard frontages of proposed subdivision.

- a. A six (6) ft. minimum high ornamental, masonry block fence with continuous footing. Wall shall be treated with an anti-graffiti repellent. (Excluding Grangeville Boulevard). A blockwall easement will be required in any locations where a blockwall footing or foundation encroaches on private property.
- b. A sidewalk in conformance with City Standards and the City's adopted ATP.
- c. Soil preparation, automatic irrigation and landscaping.
- d. Landscape plans for right-of-way and a 10 ft. wide landscape lot.

The species of tree and plants are to be selected from a list approved by the City Street Tree Commission.

That the design location of the masonry wall and landscape plans shall be approved by the Community Development Department and City Engineering Department prior to recording a subdivision final map. And the approval of block wall and landscape improvements shall be submitted with initial submittal of project improvement plans.

All above ground pedestals and other utility boxes shall be located between back of sidewalk and masonry wall/fence.

Sewer Improvements:

The developer's engineer will provide a sanitary sewer master plan complete with calculations for the entire subdivision for City review and approval prior to recording a subdivision final map for the first phase of development. Consideration shall be given for future areas of development located adjacent to proposed subdivision per the City Sanitary Sewer Master Plan.

A minimum 12-inch diameter sanitary sewer main will be installed within 9th Avenue between Leland Avenue and the southern property boundary, subject to reimbursement for over sizing in accordance with City Municipal Code Section 13.08, or any revisions thereof.

A minimum 12-inch diameter sanitary sewer main will be installed within 9th Avenue between the southern property boundary and Grangeville Boulevard, subject to reimbursement for over sizing in accordance with City Municipal Code Section 13.08, or any revisions thereof.

The developer will install a 12-inch sewer main in Grangeville Boulevard from 9 ¼ Avenue to project flow to a future sanitary sewer main planned for the future 9th Avenue alignment, subject to reimbursement for over sizing in accordance with City Municipal Code Section 13.08, or any revisions thereof.

A minimum 12-inch diameter sanitary sewer main will be installed within Leland Avenue between 9 ¼ Avenue and 9th Avenue, subject to reimbursement for over sizing in accordance with City Municipal Code Section 13.08, or any revisions thereof.

The developer is entitled to a reimbursement agreement in accordance with City Municipal Code section 13.08 for sanitary sewer main improvements constructed within 9th Avenue, Grangeville Boulevard and Leland Avenue, which also provides a benefit to others. Costs for sanitary sewer main improvements installed within the streets referenced here, if applicable, shall be per the City of Hanford Development Impact Fee Study document dated September of 2019. Reimbursement cost shall be per the Fee Study at time of improvement installation and operational acceptance.

The Copper Ridge development will not be allowed occupancy until a sewer trunk line is installed within 9th Avenue from Grangeville Boulevard to E. Lacey Boulevard.

Storm Drainage Improvements:

The developer's engineer will provide a storm drainage master plan complete with calculations for the entire subdivision for City review and approval prior to recording a subdivision final map for the first phase of development. The Master Plan will determine the ultimate temporary basin location built to City Standard.

The developer is required to obtain an easement and complete construction of the temporary storm drain basin with the first phase of the subdivision. The basin shall be designed in conformance with the City of Hanford's Storm Drainage Design Criteria specifications and shall include a six foot (6') high chain-link fence with privacy slats per City Standard Detail GE-23. A 24' wide drive approach per City Standard Detail CO-41 and access gates per City Standard Detail GE-26 shall also be installed.

The developer is required to comply with the State of California Water Resources Control Board requirements specifically related to the National Pollution Elimination System Permit process.

Water System

The developer's engineer is required to provide a Water System Master Plan complete with calculations for the entire subdivision for City review and approval prior to recording a subdivision

final map for the first phase of development. Consideration shall be given for future areas of development located adjacent to proposed subdivision, as shown on the city Water Master Plan.

A minimum 18 inch diameter water main and appurtenances, be extended along the Grangeville Boulevard project frontage. Applicant shall be entitled to a refund for water main oversizing in accordance with City Municipal Code Section 13.04. The new water main shall connect with the existing water main on 9 ¼ Avenue and shall include a blow off assembly per City Standard Detail WA-26 at the eastern terminus.

A minimum 12 inch diameter water main and appurtenances, be extended along the Leland Avenue project frontage. Applicant shall be entitled to a refund for water main oversizing in accordance with City Municipal Code Section 13.04. The new water main shall connect to the existing water main at the intersection of Leland Avenue and 9 ¼ Avenue.

As determined by results shown in the Hydraulic Capacity Study provided by Akel Engineering, the developer is required to replace approximately 550 LF of existing 8" water main and install the same LF of 10" water main on 9 ¼ Avenue from Grangeville Boulevard to approximately 550' to the north of Grangeville Boulevard.

A minimum 12 inch diameter water main and appurtenances are required to be extended along the 9th Avenue project frontage. Applicant shall be entitled to a refund for water main oversizing in accordance with City Municipal Code Section 13.04. The new water main shall connect to the new water main at the intersection of Leland Avenue and 9th Avenue and shall include a blow off assembly per City Standard Detail WA-26 at the southern terminus.

All existing water wells are required to be abandoned in conformance with State of California Department of Health Standards.

Easements and Dedications

Easements:

All easements are required to be designated on the recorded final map as required by the utility companies and where needed for providing service to streetlights as designated by the City of Hanford Engineering Department.

The developer is required to acquire an easement for temporary storm basin purposes be dedicated to the City where it is necessary to facilitate installation of storm drainage facilities connecting the portion of the development to the proposed storm drainage basin. Easements required to serve and maintain the temporary storm drainage basin may include, but are not limited to, access and storm drain pipeline easements. Easement locations and widths are required to be approved by the City Engineer and dedicated on the Final Map or by separate instrument.

The developer shall in good faith attempt to obtain an easement for sanitary sewer purposes from the south development boundary through the Not-A-Part, and provide documentation of such attempt. This is to accommodate the installation of the 9th Avenue sanitary sewer main from the

south development boundary through the Not-A-Part, to the intersection of 9th Avenue and Grangeville Boulevard. Easement locations and widths shall be approved by the City Engineer and dedicated on the Final Map or by separate instrument.

All easements for irrigation ditches and/or irrigation pipelines are required to be legally abandoned or relocated to the satisfaction of the City Engineer prior to acceptance of the subdivision improvements.

All proposed landscape/public utility easements as shown on the tentative map are required to be dedicated to the City and be included on the subdivision final map. Additional landscape or public utility easements determined necessary by the City Engineer or City Planner during review of the improvement plans shall also be dedicated with the Final Map, as required by the City.

Dedications:

That all proposed streets, street extensions and easements as shown on the tentative map be dedicated to the City with the subsequent final map(s). The streets/street extensions are to be dedicated as public right-of-way, and any alterations of existing utilities be the responsibility of the developer.

The developer is required to dedicate to the City, additional right of way along the east side of 9 ¼ Avenue, between Grangeville Boulevard and Leland Avenue to facilitate construction of the development frontage improvements as approved on the Tentative Map.

The developer is required to dedicate to the City, additional right of way of Grangeville Boulevard between the eastern project boundary and 9 ¼ Avenue to facilitate construction of the development frontage improvements as approved on the Tentative Map.

The developer is required to dedicate to the City, right of way along the Leland Avenue project frontage to facilitate construction of the development frontage improvements as approved on the Tentative Map.

The developer is required to dedicate to the City, right of way along the 9th Avenue property frontage to facilitate construction of the development frontage improvements as approved on the Tentative Map.

The developer is required to dedicate an easement to the City, for the proposed onsite drainage basin for Tract 945 drainage purposes.

The developer is required to dedicate all Outlots to the City that shall be maintained by the Community Facilities District (CFD). Additionally, at entrances to the development where roads transfer from collectors/arterials to local streets and there is side lot frontages, the outlots need to extend around these side lot frontages (ending where the side lot meets the beginning of the curve) and include block walls. These outlots must fully extend around the side lot frontages, the current configuration on the proposed Tentative Map fails to indicate the entire outlot area.

Assessment District

The developer will enter into an agreement with the City for the formation of a community facilities district tax assessment district for the maintenance of landscaping, decorative block wall/ fencing, roadways, streetlights, curb and gutter, sidewalk, signage, storm drain system and basin and emergency services.

That prior to funds of the tax assessment district being obtained, the developer will be responsible for the maintenance of all items listed above.

Neighborhood Park.

Goal 09: Parks provided at a combined ratio of 3.5 acres per 1,000 residents.

Calculation:

$$650 \text{ units} \times 3.08 \text{ persons per household} = 2002 \text{ persons}$$

$$2002 \text{ residents} \div 1,000 = 2.002$$

$$2.002 \times 3.5 \text{ acres} = 7.007 \text{ acres of park space required}$$

Although the project's population would yield 7 acres of park space, due to the proximity of the project to the future Heroes Park and the existing Freedom Park, the City requested park space be accommodated through the payment of fees, instead of the provision of park space within the development. Therefore, it is at the request of staff that a 7-acre park not be provided within the subdivision.

Figure 26: Proximity to Park Space



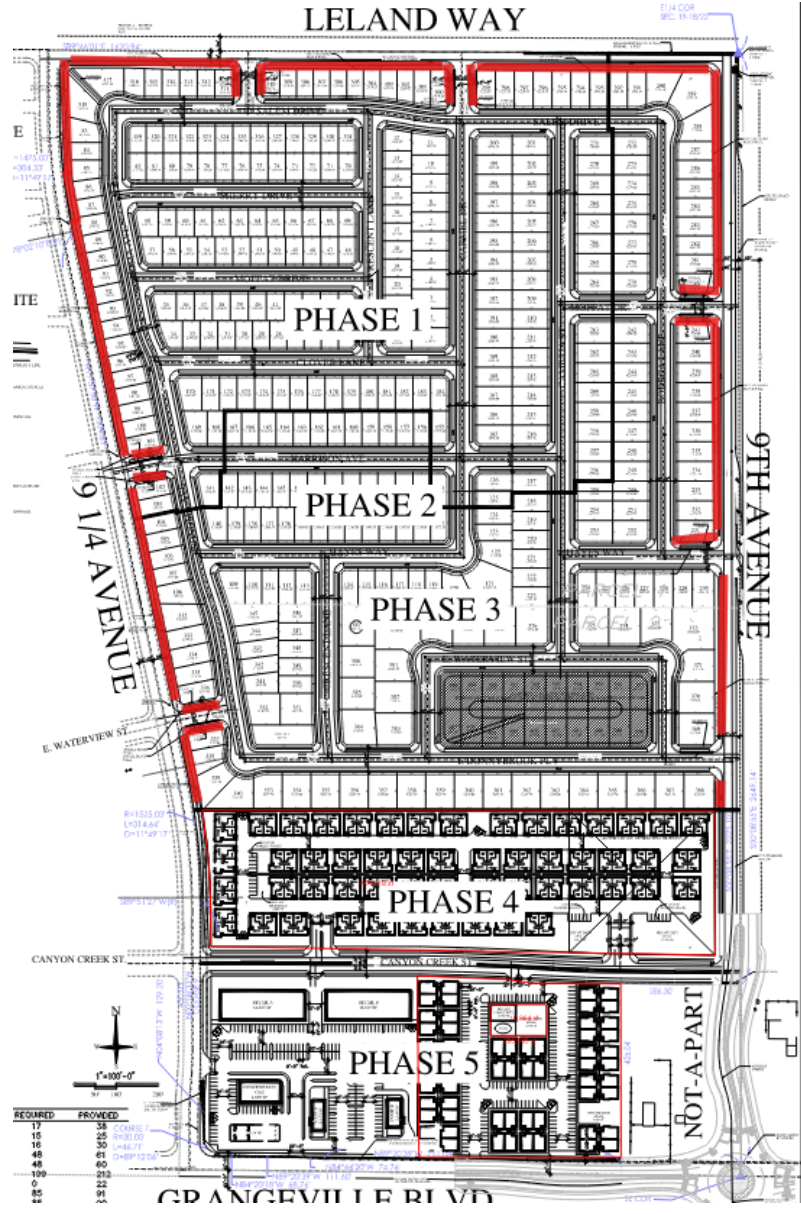
As a condition of approval of a final subdivision map or parcel map, the subdivider shall pay a fee in lieu for park or recreational purposes, at the time and according to the standards and formula contained in this title.

Restricted Access:

A one-foot reservation strip will be established at the end or sides of the roads abutting unsubdivided property and dedicated on the subdivision final map. All access will be restricted from the 9th Avenue, 9 1/4 Avenue, and Leland Avenue for lots backing or siding onto said rights-of-way. Side-lot access shall also be restricted for the following Lots: 369, 337, 336, 231, 241, 280, 299, 300, 310, 311, 101 and 102. A restricted access designation will be depicted on all recorded final maps.

That the developer construct a barricade to City Standard Detail GE-59 at the end of each future through streets.

Figure 27: Restricted Access



Special Requirements:

1. That a right-to-farm provision be recorded with the recording of the final subdivision map to insure that future residents of the homes in the subdivision are aware of the adjacent agricultural uses and their right to continue to operate.
2. That each lot owner within Tract No. 945 shall care for and maintain the trees and lawn area located in the parkway in front of their lot(s). For corner lots, the lot owner shall also care for and maintain the parkway trees and lawn area along the street side of their lot. All species of trees shall be selected from a list approved by the City Street Tree Commission. The parkway is defined as that land area located between the street curb and the public sidewalk.

3. That the tree(s) and lawn area are to be properly pruned, mowed, sprayed, watered and fertilized on a regular on-going basis in order to preserve the health and life of the tree(s) and lawn area.
4. That should the tree(s) and lawn area become damaged, severely pruned, neglected, removed or die, the lot owner shall replace said tree(s) and lawn area within thirty (30) days after the date of written notice from the City of Hanford. The tree(s) shall be replaced with a 15 gal. size tree of the same species that was originally planted. The lawn area shall be replaced with lawn. Rocks, bark, ground cover, plants or paving are not allowed in the parkway
5. That the "NOTICE, DISCLOSURE, ACKNOWLEDGMENT AND AGREEMENT OF CONTINUED CARE AND MAINTENANCE BY LOT OWNER OF THE TREES AND LAWN AREA PLANTED IN THE PARKWAY" be recorded concurrent with the recording of the subdivision final map to insure that future residents of homes in the subdivision are aware of the obligation to maintain the landscaping within the park strip. Each lot owner is to be provided a copy of said Notice, Disclosure, Acknowledgement, and Agreement, attached as in Exhibit B.
6. That Lots established as multi-family, particularly Lots 351-387, shall design each parcel to have one (1) shared access drive approach equaling 24' in width per City Standard Detail CO-41. If separate drive approaches are necessary, a 12' wide drive approach per City of Hanford Standard CO-38 for each garage will be required with a minimum of 22' of full height curbing in between the drive approaches. Drive approaches shall not exceed 40% of frontage.

Impact Fees:

Impact fees related to single family residential, multi-family and commercial will be assessed separately. Multi-family and Commercial must be approved through site plan review as individual project.

1. That development is subject to a Police Development Impact Fee as required by City Ordinance No. 98-14, and any revisions thereof. Fee payable with each building permit.
2. That development is subject to a Fire Development Impact Fee as required by City Ordinance No. 98-14, and any revisions thereof. Fee payable with each building permit.
3. That development is subject to a Park Development Impact Fee as required by City Ordinance No. 90-10 and any revisions thereof. Fee payable with each building permit.
4. That development is subject to a Transportation mitigation impact fee as required by City Ordinance No. 90-09 and any revisions thereof. Fee payable with each building permit.
5. That the development is subject to a Wastewater System Development Impact fee as required by City Ordinance No. 98-14, and any revisions thereof. Fee payable with each building permit.
6. That development is subject to a Storm Drainage Development Impact fee, as required by City Ordinance No. 98-14, and any revisions thereof. The development will be constructing a

temporary storm basin and the City will acquire property in the future for a regional storm basin that will acquire the storm water from this development.

7. That development is subject to a Water System Development Impact Fee as required by City Ordinance No. 98-14 or any revisions thereof. Fee payable with each building permit.
8. That development is subject to a Refuse and Recycling Development Impact Fee as required by City Ordinance No. 05-16 or any revisions thereof. Fee payable with each building permit.
9. That development is subject to a Sanitary Sewer area of benefit assessment fee in accordance with City Ordinance No. 92-03 and any revisions thereof. Subject fee shall be paid prior to recording a subdivision final map.

General Comments:

1. The approval of this Tentative Map does not authorize construction or development of any multifamily or commercial uses shown on the map. Prior to any development of these areas, the applicant shall obtain Site Plan Review approval in accordance with the Hanford Municipal Code and all other applicable City regulations. Site Plan Review may include review and approval by the Planning Commission and/or City Council, as required at the time of application. If future subdivision of any multifamily or commercial parcel is proposed, additional Tentative and Final Maps or Parcel Maps shall be required in compliance with the California Subdivision Map Act (Government Code §66410 et seq.) and the Hanford Subdivision Ordinance.
2. Per the applicant's direction, the area designated for the temporary storm drainage basin shall not be further subdivided as part of the Final Maps for this subdivision. At such time as the City establishes a regional storm drainage basin to serve this area, any proposal to develop or reuse the temporary basin site shall be required to resubmit for Site Plan Review in accordance with the Hanford Municipal Code and all applicable City regulations. Upon resubmittal, the project shall be subject to all conditions and requirements in effect at that time, including the preparation and approval of a new Tentative Map(s) and any necessary Final or Parcel Maps, consistent with the California Subdivision Map Act (Government Code §66410 et seq.) and the Hanford Subdivision Ordinance.
3. Block wall easements shall be provided wherever block wall footings or foundations encroach onto private property, as determined necessary by the City Engineer. Such easements shall be dedicated on the Final Map.
4. A Declaration of Temporary Building Restrictions shall be recorded concurrently with the Final Map, encompassing the area designated for the temporary storm drainage basin. The restriction shall prohibit any building or structural development within the designated basin area until such time as the City establishes a regional storm drainage facility and the property is subsequently entitled for development through the required Site Plan Review and Subdivision Map Act processes. The document shall be prepared in a form acceptable to the City Attorney and City Engineer and shall be recorded with the Kings County Recorder's Office at the time of final map recordation.

FINDINGS FOR APPROVAL

Annexation No. 165

The Hanford Planning Commission is charged with reviewing the proposed annexation and making a finding of consistency with the Hanford General Plan to forward to the City Council.

Annexation 165 is consistent with the Hanford General Plan Policy L15 and L17.

Policy L15 Initiation of Annexations

Consider initiation of annexation of land into the City of Hanford only when the following criteria are met:

1. The land is within the Primary Sphere of Influence.

Analysis: The property proposed to be annexed is within the City's Primary Sphere of Influence, as shown in **Attachment 3**.

2. The capacity of the water, sewer, fire, school, and police services are adequate to service the area to be annexed or will be adequate at the time that development occurs.

Analysis: A Plan for Services has been prepared by Engineering for Water, Sanitary Sewer, and Storm Drainage – see **Attachment 4**.

Fire and Police

Fire and police services are adequate to service the area to be annexed. Impacts to fire and police services will be mitigated through payment of impact fees.

School

Since the proposed Project includes the addition of 650 residential units, the number of students in the school district will increase. The Project will pay school development impact fees to the school districts at the time of building permit issuance in compliance with Education Code Section 17620 and Government Code Section 65995 et. Seq.. These fees are used to construct new or expanded school facilities.

The City's role in development and managing school sites and programs is limited. The various school districts truly govern where a new school site would be located and when it would be necessary to construct or expand facilities, in order to adequately accommodate population growth. Elected governing school boards are responsible for budgeting and decision-making and the State Department of Education establishes school site and construction standards. The General Plan provides policy which focuses on collaboration with school districts in determining new school locations and utilizing school facilities for general public needs. School districts would be able to utilize the General Plan, along with other plans, standards, and codes, to establish new school sites and to make decisions on school amenities and cohesiveness with the surrounding area.

3. Land for development within the City limits is insufficient to meet the current land use needs.

Analysis: The applicant is proposing an 83.61-acre development in the northeast planning area. Available land for new development within the City limits is limited. Within the existing City limits, the majority of the property available for residential development has been developed or has been entitled. The proposal is considered implementation of the General Plan.

4. The territory to be annexed is contiguous to existing developed areas.

Analysis: The territory to be annexed is directly contiguous to the current City limits to the north and west. Three annexations are in progress west and south of the project site – shown in Figure 13.

Policy L17 Plan for Services

Prepare and make publicly available a written Plan for Services that describes how urban services will be provided prior to initiating an annexation.

Analysis: A Plan for Services is attached (**Attachment 4**).

Favorable Factors for Annexation

Favorable and unfavorable factors for annexation have been adopted by LAFCO. The existence of favorable or unfavorable factors should not decide approval or denial; however, a substantial number of favorable or unfavorable factors may determine approval or denial of the proposal.

1. The proposed area is close to urban development and municipal-type services and would enhance its potential for full development.

Analysis: The proposed area is close to the existing City limits and is a logical extension of the City. The annexation area can be served by municipal-type services. The annexation area is designated as a combination of Low-Density Residential, Medium-Density Residential, and Neighborhood Commercial by the General Plan and is proposed to be designated as a combination of Low-Density Residential, Medium-Density Residential, Neighborhood Commercial, and Neighborhood Mixed Use, in accordance with the proposed General Plan Amendment. This area has been considered for urban development by the General Plan and is necessary to accommodate growth within the City of Hanford.

2. The proposed annexation conforms to the adopted General Plan.

Analysis: The annexation area is designated as a combination of Low-Density Residential, Medium-Density Residential, and Neighborhood Commercial by the General Plan and is proposed to be designated as a combination of Low-Density Residential, Medium-Density Residential, Neighborhood Commercial, and Neighborhood Mixed Use, in accordance with the proposed General Plan Amendment. This area has been considered for urban development by the General Plan and is necessary to accommodate growth within the City

of Hanford. The southern portion of the annexation area, considered the development area, is proposed to be developed as shown in Tentative Tract 945. Tentative Tract 945 proposes the development of 650 residential units (350 single-family and 300 multi-family), as well as 5.45 acres of commercial development. The development is consistent with the proposed General Plan Amendment No. 0009-24. All findings have been made in order to support the General Plan Amendment. The northern portion of the annexation area is not proposed to be developed, at this time. The annexation is consistent with the General Plan, as proposed to be amended.

The annexation is consistent with the General Plan Section 3.2.4, which states, “Annexation of land into Hanford allows previously undeveloped land to become available for development and allows the City of Hanford to provide the territory that is annexed with its full range of City services.” The annexation area is also consistent with Policy L15 and L17 of the General Plan, as analyzed above.

3. The proposed area is consistent with the sphere of influence.

Analysis: The property proposed to be annexed is within the City’s Primary Sphere of Influence, as shown in **Attachment 3**.

4. The proposed annexation comes with 100% consent of all landowners.

Analysis: **Unable to make finding.** The annexation area comes with consent of two property owners; however, the remaining property owners have not consented to the annexation.

General Plan Amendment No. 0009-24 and Prezone No. 0013-24

In accordance with HMC Section 17.88.040, before a general plan amendment may be approved, all of the following findings shall be made by the reviewing authority:

In accordance with HMC Section 17.86.030, before a zone change may be approved, all of the following findings shall be made by the reviewing authority:

(Note: the required findings to support the rezone application are the same as the findings used to support the General Plan Amendment).

1. That the amendment is internally consistent with the goals, objectives, and policies of the General Plan and the Municipal Code.

Analysis: That Prezone No. 0013-24 and General Plan Amendment No. 0009-24 are internally consistent with the goals, objectives, and policies of the General Plan, including Low-Density Residential Policies L31-L33, Medium-Density Residential Policies L34 – L37, Neighborhood Commercial Policies L34-L37, Neighborhood Mixed Use policies L60 – L64, and Annexation Policies L15 and L17. The development proposed in the annexation area, under Tentative Tract 945, conforms with the regulations pertaining to the R-M Medium-Density Residential zone district and MX-N Neighborhood Mixed Use zone district, except where expressly modified under Planned Unit Development No. 0037-24.

2. That the amendment would not be detrimental to the public health, safety, or welfare of the community.

ANALYSIS: That this application has been reviewed by County departments, utility companies, City Fire Department, City Building Department, and other involved departments. Any mitigation required for public health and safety were applied to the proposal and required in the mitigation monitoring and reporting program.

3. That the amendment would maintain the appropriate balance of land uses within the City.

Analysis: That job-housing balance is achieved by increasing opportunities for people to work and live in close proximity. The ratio is expressed as the number of jobs divided by the number of housing units. The jobs-housing balance is a general tool for analyzing where people work, where they live, and how effectively they can travel between the two. In the planning area, the existing jobs-housing balance ratio in 2013-2014 was 1.17. It is estimated that the implementation of the General Plan would increase the jobs-housing balance by 0.45 to 1.62, which would make the planning area a job-rich area.

The prezone of the northern portion of the annexation area is consistent with the General Plan designation, Neighborhood Commercial and Low-Density Residential. The southern portion of the site, the planned development area, proposes to align with the land use designations proposed through General Plan Amendment No. 0007-24, Neighborhood Mixed Use and Medium-Density Residential.

The project proposes the up-zoning of approximately 72.92 acres of Low-Density Residential to Medium-Density Residential and the addition of a 5.45-acre Neighborhood Mixed Use site. The site will increase both housing opportunity and commercial activity, thus maintaining an appropriate balance of land uses within the City.

4. That the anticipated land uses on the subject site would be compatible with existing and future surrounding uses.

Analysis: That the anticipated land uses on the subject site include single-family residences (existing large-lot single family residential and planned small-lot single family), duplexes, low-rise apartments, and neighborhood commercial uses, as proposed under Tentative Tract 945. The anticipated land uses for the annexation area include low-density residential, medium-density residential, and neighborhood commercial and mixed-use development. The anticipated land uses are compatible with the surrounding land uses and planned land uses in the area, which include agricultural land, a future regional park, single-family and multi-family residential.

Tentative Tract Map 945:

Pursuant to Section 16.04.010 of the Hanford Subdivision Ordinance, Section 66474 of the Subdivision Map Act, and Hanford's Zoning Ordinance, the following findings can be made by the Planning Commission:

1. Consistency Finding:

ANALYSIS: That a consistency finding can be made, because the proposed subdivision map is consistent with the State Subdivision Map Act, General Plan (as proposed to be amended through General Plan Amendment No. 0009-24), Zoning Ordinance, and Subdivision Ordinance. The subdivision is consistent with the General Plan Designation for the property, as amended through General Plan Amendment No. 0009-24 (for which the required findings can be satisfied), Medium-Density Residential and Neighborhood Mixed Use. All requirements of the Neighborhood Mixed Use zone and the R-M Medium-Density Residential zone district are satisfied, except where expressly modified through Planned Unit Development No. 0037-24 for lot area, lot dimensions, site area per dwelling unit, building setbacks, and usable open space, as set forth below:

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet
	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-foot wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.
§ 17.24.130 Screening, fences, and walls.	A block wall with a minimum height of seven (7) feet shall be provided along any side or rear lot line that abuts an R-L, R-M, R-H, OR, PF, AP, or CO zone district.	Deviation request to remove the block wall requirement between the MX-N and R-M zone district to allow for integration and mixed uses between sites.

2. Design Finding:

ANALYSIS: That the design and improvement of the subdivision is consistent with the State Subdivision Map Act, General Plan (as amended through General Plan Amendment No. 0009-24), Zoning Ordinance, and Subdivision Ordinance. The subdivision is consistent with the General Plan Designation for the property, as amended through General Plan

Amendment No. 0009-24 (for which the required findings can be satisfied), Medium-Density Residential and Neighborhood Mixed Use. All requirements of the Neighborhood Mixed Use zone and the R-M Medium-Density Residential zone district are satisfied, except where expressly modified through Planned Unit Development No. 0037-24 for lot area, lot dimensions, site area per dwelling unit, building setbacks, and usable open space, as set forth below:

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet
	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-foot wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.
§ 17.24.130 Screening, fences, and walls.	A block wall with a minimum height of seven (7) feet shall be provided along any side or rear lot line that abuts an R-L, R-M, R-H, OR, PF, AP, or CO zone district.	Deviation request to remove the block wall requirement between the MX-N and R-M zone district to allow for integration and mixed uses between sites.

3. Type of Development Finding:

ANALYSIS: That the site is physically suitable for the single-family and multi-family residential and Neighborhood Mixed-Use development proposed under Tentative Tract 945. The submitted floorplans demonstrate the ability for the proposed residences to be situated on the proposed lots. All parcels have adequate street frontage on a public street and buildable lot configurations.

4. Density Finding:

ANALYSIS: That a density finding can be made, because the site is physically suitable for the proposed density of development. The General Plan, as amended through General Plan Amendment No. 0009-24, prescribes a density range between seven and 20 units per gross acre, with an expected average of nine units per gross acre for the Medium-Density Residential land use designation. The project has a density of 8.31 dwelling units per gross acre.

5. Environmental Finding:

ANALYSIS: That in accordance with the California Environmental Quality Act (CEQA), General Plan Amendment No. 0009-24, Prezone No. 0013-24, Tentative Tract 945, and Planned Unit Development No. 0037-24 were evaluated in an Environmental Assessment/Initial Study. Based on the review, it was determined that the proposed project would not result in a significant adverse impact on the environment with the incorporation of mitigation measures, therefore Mitigated Negative Declaration No. 2025-73 has been prepared, attached as **Attachment 6**.

6. Public Health Finding:

ANALYSIS: That the design of the subdivision and type of improvements are not likely to cause serious health problems. The City of Hanford Building Division is responsible for ensuring that future construction of the site follows adopted building codes, thus reducing exposures to accidents to the general public. Consultation was sent for Tentative Tract 945 to interested agencies, including the County Health Department, Public Works Department, Fire Department, and Building Division. Any improvements or mitigations required for public health and safety were applied to the proposal and required in the conditions of approval and the mitigation monitoring and reporting program.

7. Improvements and Access Findings:

ANALYSIS: That the design of the subdivision and type of improvements will not conflict with easements acquired by the public at large for access through or use of the property within the proposed subdivision. All easements will be designated on the final subdivision map, as required by the utility companies and where needed for providing service to streetlights and landscape improvements, as designated by the City Public Utilities and Engineering Division.

Planned Unit Development No. 0037-24:

Pursuant to Section 17.82.060 of the Hanford Municipal Code, six findings must be made before approval of the planned unit development application:

1. That the location and design of the PUD is in accordance with the purpose of this title;

Analysis: Location - That in accordance with Section 17.82.050 of the Hanford Municipal Code, a planned unit development shall be a minimum five-acre site area, except that there shall be no minimum site area requirements if the site is an infill development site. The planned unit development pertains to an 83.61-acre development site.

Design – the Planned Unit Development will allow the development of a 650-unit single- and multi-family mixed-use development, proposed under Tentative Tract 945. The design has been evaluated in accordance with the requirements of the MX-N Neighborhood Mixed Use and R-M Medium-Density Residential zone district.

2. That the PUD is being proposed to achieve one or more of the objectives identified in Section 17.82.030;

Purpose: That planned unit developments are encouraged to achieve a more functional, aesthetically pleasing, and harmonious living and working environment within the City, that otherwise might not be possible by strict adherence to the provisions of the municipal code. In certain instances, the objectives of the municipal code may be achieved by development that does not conform in all respects with the land use pattern designated on the zoning map or in the zone district prescribed. The planned unit development seeks to:

- ✓ To permit a site within more than one zone district to mix the permitted or conditionally permitted land uses of both zones within the site without regard to the zone district boundary.
 - ✓ To permit development intensity greater than would otherwise be permitted by the implementation of the standards of the zone district in which the site is located;
 - ✓ To permit the lot patterns on size, shape, and layout that would otherwise not be permitted by the standards of the zone district in which the site is located;
 - ✓ To modify the required building setbacks, distances between structures, and landscaped areas that would otherwise be required by this title;
 - ✓ To permit the implementation of the mixed use provisions in the MX-N, MX-C, or MX-D zone districts.
3. The location and design of the PUD and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety or welfare of the community to properties or improvements in the vicinity.

Analysis:

Design and Purpose - That planned unit developments are encouraged to achieve a more functional, aesthetically pleasing, and harmonious living and working environment within the City, that otherwise might not be possible by strict adherence to the provisions of the municipal code. In certain instances, the objectives of the municipal code may be achieved by development that does not conform in all respects with the land use pattern designated on the zoning map or in the zone district prescribed. The planned unit development seeks to:

- ✓ To permit a site within more than one zone district to mix the permitted or conditionally permitted land uses of both zones within the site without regard to the zone district boundary.

- ✓ To permit development intensity greater than would otherwise be permitted by the implementation of the standards of the zone district in which the site is located;
- ✓ To permit the lot patterns on size, shape, and layout that would otherwise not be permitted by the standards of the zone district in which the site is located;
- ✓ To modify the required building setbacks, distances between structures, and landscaped areas that would otherwise be required by this title;
- ✓ To permit the implementation of the mixed use provisions in the MX-N, MX-C, or MX-D zone districts.

Design – The Planned Unit Development will allow the development of a 650-unit single- and multi-family mixed-use development, proposed under Tentative Tract 945. The design has been evaluated in accordance with the requirements of the MX-N Neighborhood Mixed Use and R-M Medium-Density Residential zone district.

4. The location and design of the PUD will not generate more traffic than the streets in the vicinity can carry without congestion, and will not overload utilities;

Analysis: A traffic impact analysis was conducted for the initial study, which demonstrated that the location and design of the proposed development will not generate more traffic than the streets in the vicinity can handle without congestion, with the application of Engineering Conditions of Approval, conditioning the right-of-way development.

5. That the PUD's population density, site area and dimensions, site coverage, yard spaces, height of structures, distances between structures, off-street parking and off-street loading facilities, landscaped areas and street design will produce an environment of stable and desirable character consistent with the purpose of this title;

Analysis: The PUD's population density is within the allowable range prescribed for the R-M Medium-Density and MX-N Neighborhood Mixed Use zone district. The site area, dimensions, site coverage, yard spaces, height of structures, distances between structures, parking, and landscaping were evaluated for conformance with the MX-N Neighborhood Mixed Use zone district and R-M Medium-Density Residential zone district regulations. Deviations were requested, as follows:

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet

	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-feet wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.
§ 17.24.130 Screening, fences, and walls.	A block wall with a minimum height of seven (7) feet shall be provided along any side or rear lot line that abuts an R-L, R-M, R-H, OR, PF, AP, or CO zone district.	Deviation request to remove the block wall requirement between the MX-N and R-M zone district to allow for integration and mixed uses between sites.

The deviations proposed will allow the development, as proposed in Tentative Tract 945 and will produce an environment of stable and desirable character, achieving goals L6 and L7 of the General Plan to provide for a wide range of housing choices that insure opportunities for a variety of age groups, lifestyles, and income levels and allow residential densities that encourage both compact and infill development.

6. The combination of different dwelling types, architectural appearance, and/or varieties of land uses in the development will complement each other and will harmonize with the existing and proposed land uses in the vicinity; and

Analysis: The combination of single-family and multi-family dwellings and commercial development provides for a mix of uses for the Neighborhood Mixed-Use and R-M Medium-Density Residential zone district. The uses will compliment and harmonize with each other and the surrounding land uses. The deviations proposed will allow the development, as proposed in Tentative Tract 945 which achieves goals L6 and L7 of the General Plan to provide for a wide range of housing choices that ensure opportunities for a variety of age groups, lifestyles, and income levels and allow residential densities that encourage both compact and infill development.

CONSULTATION

Early Consultation

On December 23, 2024, the City of Hanford submitted a pre-consultation request to the Office of Planning and Research (OPR). In response, the California Department of Conservation (DOC) and Department of Toxic Substances Control (DTSC) submitted written comments, which can be found in Appendix A of the Initial Study. A summary of the comments is found in each pertinent discussion

in the environmental checklist, Agricultural Resources and Hazards and Hazardous Materials, respectively.

Consultation

In accordance with Section 15073 of the California Environmental Quality Act Guidelines, a Notice of Intent to Adopt a Mitigated Negative Declaration was sent to the concerned agencies, mailed to residents within 300 feet of the project site, and posted on CEQANet on September 12, 2025, for a 30-day review period. No comments have been received as of the date of preparation of this report.

ENVIRONMENTAL ASSESSMENT

In accordance with the California Environmental Quality Act (CEQA), General Plan Amendment No. 0009-24, Prezone No. 00xx-24, Tentative Tract 945, and Planned Unit Development No. 0037-24 were evaluated in an Environmental Assessment/Initial Study. The Initial Study analyzed the project's potential impacts on

Aesthetics	Land Use and Planning
Agriculture and Forest Resources	Mineral Resources
Air Quality	Noise
Biological Resources	Population and Housing
Cultural Resources	Public Services
Energy	Parks and Recreation
Geology and Soils	Transportation
Greenhouse Gas Emissions	Tribal Cultural Resources
Hazards and Hazardous Materials	Utilities and Service Systems
Hydrology and Water Quality	Wildfire

Based on the review, it was determined that the proposed project would not result in a significant adverse impact on the environment with the incorporation of mitigation measures, therefore Mitigated Negative Declaration No. 2025-73 has been prepared, attached as **Attachment 6**.

PUBLIC COMMENTS

Notice of Public Hearing for the proposed projects was published in the Hanford Sentinel, posted on the Office of Planning and Research (OPR) CEQANet website, and mailed to property owners within 300 ft. of the project site on September 12, 2025.. The Community Development Department has not received comments on the projects as of the date of preparation of this report.

STAFF RECOMMENDATION

Environmental:

1. Recommend certification of Mitigated Negative Declaration No. 2025-73 (SCH# 2024121093) for the project to the City Council.

Annexation:

2. Find that the proposed Annexation No. 165 is consistent with the Hanford General Plan Policies L15 and L17 and forward Annexation No. 165 to the City Council, with a recommendation that an application be made to the Local Agency Formation Commission (LAFCO) of Kings County.

General Plan Amendment:

3. Adopt Resolution No. 2025-30, recommending approval of General Plan Amendment No. 0009-24 to the City Council.

Pre-Zone:

4. Adopt Resolution No. 2025-31, recommending approval Prezone No. 0013-24 to the City Council.

Tentative Subdivision Map:

5. Adopt Resolution No. 2025-32, recommending approval of Tentative Subdivision No. 0012-24 (TT 945) to the City Council

Planned Unit Development:

6. Adopt Resolution No. 2025-33, recommending approval of Planned Unit Development No. 0037-24 to the City Council.

Applicant:

N&M Tulare, LLC
1878 N. Mooney Boulevard
Tulare, CA 93724

RESOLUTION NO. 2025-30

**A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF HANFORD
RECOMMENDING APPROVAL OF GENERAL PLAN AMENDMENT NO. 0009-24 TO THE
CITY COUNCIL. GENERAL PLAN AMENDMENT NO. 0009-24: A REQUEST TO CHANGE
THE LAND USE DESIGNATION FROM A COMBINATION OF LOW- AND MEDIUM-DENSITY
RESIDENTIAL TO MEDIUM-DENSITY RESIDENTIAL (78.16 ACRES) AND
NEIGHBORHOOD MIXED USE (5.45 ACRES) FOR 83.61 ACRES OF THE PROJECT SITE.
THE PROJECT IS LOCATED NORTH OF GRANGEVILLE BOULEVARD AND EAST OF 9 ¼
AVENUE (APNS 014-143-069 AND 014-143-078)**

At a regular meeting of the Planning Commission of the City of Hanford duly called and held on October 14, 2025, on motion of Commissioner , seconded by Commissioner , and duly carried, the following resolution was adopted:

WHEREAS, an application, filed by N&M Tulare, LLC , for General Plan Amendment No. 0009-24, requesting a General Plan Amendment to change the land use designation from a combination of Low- and Medium-Density Residential to Medium-Density Residential (78.16 acres) and Neighborhood Mixed Use (5.45 acres), as shown in **Exhibit A**, was presented to the Hanford City Planning Commission on October 14, 2025; and,

WHEREAS, the project is located north of Grangeville Boulevard, east of 9 ¼ Avenue (APN 014-143-069 and 014-143-078); and

WHEREAS, the City of Hanford Planning Commission considered the General Plan Amendment, in accordance with Section 17.88 of the Hanford Municipal Code, at its regularly scheduled meeting on October 14, 2025 and,

WHEREAS, the City of Hanford Planning Commission considered the evidence presented in the staff report and testimony presented during the public hearing; and

WHEREAS, the Initial Study, Mitigated Negative Declaration No. 2025-73 (SCH# 2024121093) and all notices related thereto were prepared in compliance with the California Environmental Quality Act (CEQA) and the City of Hanford Municipal Code and Policies; and

NOW THEREFORE, BE IT RESOLVED, that the Planning Commission hereby recommends that the City Council of the City of Hanford find that no significant environmental impacts would result from the proposed project with the incorporation of mitigation measures, adopt a Mitigation and Monitoring Reporting Program, attached as **Exhibit B**, and certify that Mitigated Negative Declaration No. 2024-57 was prepared consistent with CEQA and City of Hanford Environmental Guidelines.

NOW THEREFORE BE IT FURTHER RESOLVED, that the City of Hanford Planning Commission, in accordance with Section 17.88.040 of the Hanford Municipal Code, recommends approval to the City Council of General Plan Amendment No. 0009-24, based upon the following findings and on the evidence presented:

1. That the amendment is internally consistent with the goals, objectives, and policies of the General Plan and the Municipal Code.

Analysis: That Prezone No. 0013-24 and General Plan Amendment No. 0009-24 are internally consistent with the goals, objectives, and policies of the General Plan, including Low-Density Residential Policies L31-L33, Medium-Density Residential Policies L34 – L37, Neighborhood Commercial Policies L34-L37, Neighborhood Mixed Use policies L60 – L64, and Annexation Policies L15 and L17. The development proposed in the annexation area, under Tentative Tract 945, conforms with the regulations pertaining to the R-M Medium-Density Residential zone district and MX-N Neighborhood Mixed Use zone district, except where expressly modified under Planned Unit Development No. 0037-24.

2. That the amendment would not be detrimental to the public health, safety, or welfare of the community.

ANALYSIS: That this application has been reviewed by County departments, utility companies, City Fire Department, City Building Department, and other involved departments. Any mitigation required for public health and safety were applied to the proposal and required in the mitigation monitoring and reporting program.

3. That the amendment would maintain the appropriate balance of land uses within the City.

Analysis: That jobs-housing balance is achieved by increasing opportunities for people to work and live in close proximity. The ratio is expressed as the number of jobs divided by the number of housing units. The jobs-housing balance is a general tool for analyzing where people work, where they live, and how effectively they can travel between the two. In the planning area, the existing jobs-housing balance ratio in 2013-2014 was 1.17. It is estimated that the implementation of the General Plan would increase the jobs-housing balance by 0.45 to 1.62, which would make the planning area a jobs-rich area.

The prezone of the northern portion of the annexation area is consistent with the General Plan designation, Neighborhood Commercial and Low-Density Residential. The southern portion of the site, the planned development area, proposes to align with the land use designations proposed through General Plan Amendment No. 0007-24, Neighborhood Mixed Use and Medium-Density Residential.

The project proposes the up-zoning of approximately 72.92 acres of Low-Density Residential to Medium-Density Residential and the addition of a 5.45-acre Neighborhood Mixed Use site. The site will increase both housing opportunity and commercial activity, thus maintaining an appropriate balance of land uses within the City.

4. That the anticipated land uses on the subject site would be compatible with existing and future surrounding uses.

Analysis: That the anticipated land uses on the subject site include single-family residences (existing large-lot single family residential and planned small-lot single family), duplexes, low-rise apartments, and neighborhood commercial uses, as proposed under Tentative Tract 945. The anticipated land uses for the annexation area include low-density residential, medium-density residential, and neighborhood commercial and mixed-use development. The anticipated land uses are compatible with the surrounding land uses and planned land uses in the area, which include agricultural land, a future regional park, single-family and multi-family residential.

THEREFORE, BE IT RESOLVED that General Plan Amendment No. 0009-24 be recommended for approval to the City Council, subject to the following condition(s):

ADMINISTRATION DEPARTMENT

Contact the City Attorneys' Office: (559) 584-6656

Concerning questions that you may have on the conditions listed below:

Defense and Indemnification Provisions:

1. That the applicant shall defend, indemnify, and hold harmless the City of Hanford ("City"), its officials, officers, employees, representatives, agents and attorneys, from and against all claims, damages, losses, judgments, liabilities, expenses and other costs, including litigation costs and attorney's fees, arising out of, resulting from, or in connection with, the City's act or acts leading up to and including approval of any environmental document and/or granting of any approvals relating to the Project. Applicant's obligation to defend, indemnify and hold the City harmless specifically includes, but is not limited to, any suit or challenge by any third party against the City which challenges or seeks to set aside, void or annul the legality or adequacy of any environmental document approved by the City or any approval related to the Project.

PASSED AND ADOPTED at a regular meeting of the Hanford City Planning Commission by the following votes:

AYES: Commissioners
NOES: Commissioners
ABSTAIN: Commissioners
ABSENT: Commissioners

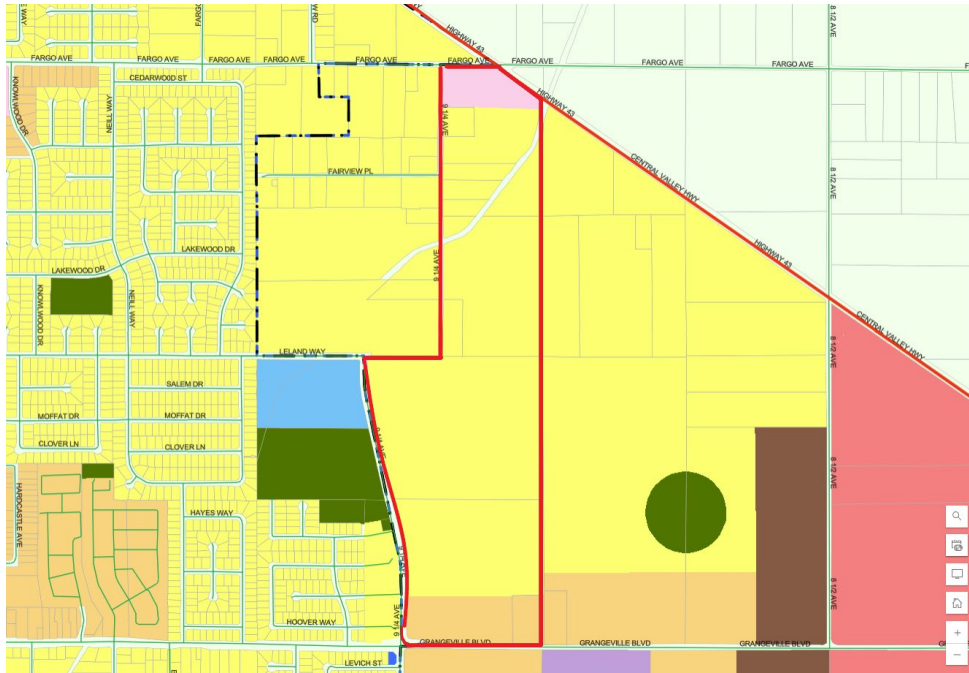
STATE OF CALIFORNIA)
COUNTY OF KINGS)ss.
CITY OF HANFORD)

I, **Jason Waters**, Secretary of the City of Hanford Planning Commission, do hereby certify the foregoing resolution was duly passed and adopted by the Planning Commission of the City of Hanford at a regular meeting thereof held on the 14th day of October 2025.

Jason Waters, Secretary

Exhibit A
Current and Proposed General Plan Land Use Designation

Existing General Plan Designation
(project site outlined in red)



Proposed General Plan Amendment
(project site shown in red; area changed outlined in bold)

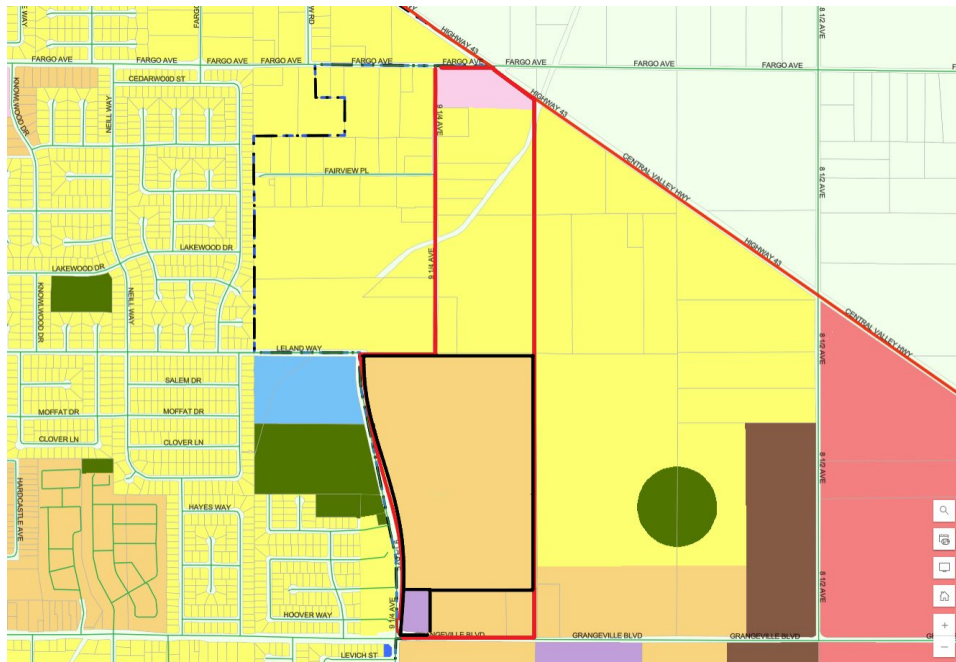


Exhibit B
Mitigation Monitoring and Reporting Program

MITIGATION MONITORING AND REPORTING PROGRAM

As required by Public Resources Code Section 21081.6, subd. (a)(1), a Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the Project in order to monitor the implementation of the mitigation measures that have been adopted for the Project. This Mitigation Monitoring and Reporting Program (MMRP) has been created based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) for the Copper Ridge Subdivision proposed by Quest Equity LLC in the City of Hanford.

The first column of the table identifies the mitigation measure. The second column names the party responsible for carrying out the required action. The third column, "Timing of Mitigation Measure" identifies the time the mitigation measure should be initiated. The fourth column, "Responsible Party for Monitoring," names the party ensuring that the mitigation measure is implemented. The last column will be used by the City of Hanford to ensure that the individual mitigation measures have been monitored.

Plan checking and verification of mitigation compliance shall be the responsibility of the City of Hanford.

MITIGATION MEASURE	RESPONSIBLE PARTY FOR IMPLEMENTATION	IMPLEMENTATION TIMING	RESPONSIBLE PARTY FOR MONITORING	VERIFICATION
Biological Resources				
Mitigation Measure BIO 1 (Construction Timing). If feasible, future construction activities will take place entirely outside of the avian nesting season, defined as February 1 to August 31.	Applicant Developer Builder	Ongoing	City of Hanford	
Mitigation Measure BIO 2 (Preconstruction Surveys). If construction must occur between February 1 and August 31, a qualified biologist will conduct surveys for active bird nests within 7 days prior to the start of work during this period. The survey area will encompass the site and accessible surrounding lands within ¼ mile for nesting Swainson's hawks, 500 feet for other nesting raptors, 300 feet for the tricolored blackbird, and 250 feet for	Applicant Developer Builder	7 days prior to construction	City of Hanford	

other nesting birds.				
Mitigation Measure BIO 3 (Avoidance of Active Nests). Should any active nests be discovered in or near proposed construction zones, the biologist will identify a suitable construction-free buffer around the nest. This buffer will be identified on the ground with flagging or fencing and will be maintained until the biologist has determined that the young have fledged and are capable of foraging independently.	Applicant Developer Builder	Ongoing	City of Hanford	
Cultural Resources				
Mitigation Measure CUL-1: In the event of accidental discovery of unidentified archaeological remains during development or ground disturbing activities in the Project area, all work shall be halted in immediate vicinity (within a 100-foot radius) until a qualified archaeologist can identify the discovery and assess its significance.	Applicant/ Construction Contractor	Ongoing during construction	City of Hanford	
Mitigation Measure CUL 2: If human remains are uncovered during construction, work shall be halted, and the Kings County Coroner is to be notified to investigate the remains and arrange proper treatment and disposition. If the remains	Applicant/ Construction Contractor	Ongoing during construction	City of Hanford	

are identified on the basis of archaeological context, age, cultural associations, or biological traits to be those of a Native American, California Health and Safety Code 7050.5 and California Public Resources Code 5097.98 require that the coroner notify the Native American Heritage Commission (NAHC) within 24 hours of discovery. The NAHC will then identify the Most Likely Descendent who will make recommendations regarding the treatment and disposition of the remains.				
Mitigation Measure CUL 3 A burial Treatment Plan shall be entered into by the Project applicant/property owner prior to any ground disturbing activities.	Applicant Construction Contractor	Prior to ground disturbing activities	City of Hanford	

RESOLUTION NO. 2025-31

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF HANFORD RECOMMENDING APPROVAL OF PREZONE NO. 0013-24 TO THE CITY COUNCIL. PREZONE NO. 0013-24: A REQUEST TO PREZONE THE PROPERTIES AS A R-M MEDIUM-DENSITY RESIDENTIAL (78.16 ACRES) AND MX-N NEIGHBORHOOD MIXED USE (5.45 ACRES), CONSISTENT WITH THE PROPOSED GENERAL PLAN AMENDMENT AND R-L-5 LOW-DENSITY RESIDENTIAL (51.92 ACRES) AND C-N NEIGHBORHOOD COMMERCIAL (6.32 ACRES), CONSISTENT WITH THE GENERAL PLAN DESIGNATION. THE PROJECT SITE IS LOCATED NORTH OF GRANGEVILLE BOULEVARD AND EAST OF 9 ¼ AVENUE (APNS 014-143-069, 014-143-078, 014-143-022, 014-830-011, 014-830-010, 014-830-013, 014-830-014, 014-830-015, 014-830-016, 014-830-017, AND 014-830-018).

At a regular meeting of the Planning Commission of the City of Hanford duly called and held on October 14, 2025, on motion of Commissioner , seconded by Commissioner , and duly carried, the following resolution was adopted:

WHEREAS, an application, filed by N&M Tulare, LLC , for Prezone No. 0013-24, a request to prezone the properties as a R-M Medium-Density Residential (78.16 acres) and MX-N Neighborhood Mixed Use (5.45 acres), consistent with the proposed General Plan Amendment and R-L-5 Low-Density Residential (51.92 acres) and C-N Neighborhood Commercial (6.32 acres), consistent with the General Plan Designation, as shown in **Exhibit A**, was presented to the Hanford City Planning Commission on October 14, 2025; and,

WHEREAS, the project is located north of Grangeville Boulevard and east of 9 ¼ Avenue (APNs 014-143-069, 014-143-078, 014-143-022, 014-830-011, 014-830-010, 014-830-013, 014-830-014, 014-830-015, 014-830-016, 014-830-017, and 014-830-018); and

WHEREAS, the City of Hanford Planning Commission considered the Prezone, in accordance with Section 17.88 of the Hanford Municipal Code, at its regularly scheduled meeting on October 14, 2025 and,

WHEREAS, the City of Hanford Planning Commission considered the evidence presented in the staff report and testimony presented during the public hearing; and

WHEREAS, the Initial Study, Mitigated Negative Declaration No. 2025-73 (SCH# 2024121093) and all notices related thereto were prepared in compliance with the California Environmental Quality Act (CEQA) and the City of Hanford Municipal Code and Policies; and

NOW THEREFORE, BE IT RESOLVED, that the Planning Commission hereby recommends that the City Council of the City of Hanford find that no significant environmental impacts would result from the proposed project with the incorporation of mitigation measures, adopt a Mitigation and Monitoring Reporting Program, attached as **Exhibit B**, and certify that Mitigated Negative Declaration No. 2024-57 was prepared consistent with CEQA and City of Hanford Environmental Guidelines.

NOW THEREFORE BE IT FURTHER RESOLVED, that the City of Hanford Planning Commission, in accordance with Section 17.86.040 of the Hanford Municipal Code, recommends

approval to the City Council of Prezone No.0013-24, based upon the following findings and on the evidence presented:

1. That the amendment is internally consistent with the goals, objectives, and policies of the General Plan and the Municipal Code.

Analysis: That Prezone No. 0013-24 and General Plan Amendment No. 0009-24 are internally consistent with the goals, objectives, and policies of the General Plan, including Low-Density Residential Policies L31-L33, Medium-Density Residential Policies L34 – L37, Neighborhood Commercial Policies L34-L37, Neighborhood Mixed Use policies L60 – L64, and Annexation Policies L15 and L17. The development proposed in the annexation area, under Tentative Tract 945, conforms with the regulations pertaining to the R-M Medium-Density Residential zone district and MX-N Neighborhood Mixed Use zone district, except where expressly modified under Planned Unit Development No. 0037-24.

2. That the amendment would not be detrimental to the public health, safety, or welfare of the community.

ANALYSIS: That this application has been reviewed by County departments, utility companies, City Fire Department, City Building Department, and other involved departments. Any mitigation required for public health and safety were applied to the proposal and required in the mitigation monitoring and reporting program.

3. That the amendment would maintain the appropriate balance of land uses within the City.

Analysis: That jobs-housing balance is achieved by increasing opportunities for people to work and live in close proximity. The ratio is expressed as the number of jobs divided by the number of housing units. The jobs-housing balance is a general tool for analyzing where people work, where they live, and how effectively they can travel between the two. In the planning area, the existing jobs-housing balance ratio in 2013-2014 was 1.17. It is estimated that the implementation of the General Plan would increase the jobs-housing balance by 0.45 to 1.62, which would make the planning area a jobs-rich area.

The prezone of the northern portion of the annexation area is consistent with the General Plan designation, Neighborhood Commercial and Low-Density Residential. The southern portion of the site, the planned development area, proposes to align with the land use designations proposed through General Plan Amendment No. 0007-24, Neighborhood Mixed Use and Medium-Density Residential.

The project proposes the up-zoning of approximately 72.92 acres of Low-Density Residential to Medium-Density Residential and the addition of a 5.45-acre Neighborhood Mixed Use site. The site will increase both housing opportunity and commercial activity, thus maintaining an appropriate balance of land uses within the City.

4. That the anticipated land uses on the subject site would be compatible with existing and future surrounding uses.

Analysis: That the anticipated land uses on the subject site include single-family residences (existing large-lot single family residential and planned small-lot single family), duplexes, low-rise apartments, and neighborhood commercial uses, as proposed under Tentative Tract 945. The anticipated land uses for the annexation area include low-density residential, medium-density residential, and neighborhood commercial and mixed-use development. The anticipated land uses are compatible with the surrounding land uses and planned land uses in the area, which include agricultural land, a future regional park, single-family and multi-family residential.

THEREFORE, BE IT RESOLVED that Prezone No. 0013-24 be recommended for approval to the City Council, subject to the following condition(s):

ADMINISTRATION DEPARTMENT

Contact the City Attorneys' Office: (559) 584-6656

Concerning questions that you may have on the conditions listed below:

Defense and Indemnification Provisions:

1. That the applicant shall defend, indemnify, and hold harmless the City of Hanford ("City"), its officials, officers, employees, representatives, agents and attorneys, from and against all claims, damages, losses, judgments, liabilities, expenses and other costs, including litigation costs and attorney's fees, arising out of, resulting from, or in connection with, the City's act or acts leading up to and including approval of any environmental document and/or granting of any approvals relating to the Project. Applicant's obligation to defend, indemnify and hold the City harmless specifically includes, but is not limited to, any suit or challenge by any third party against the City which challenges or seeks to set aside, void or annul the legality or adequacy of any environmental document approved by the City or any approval related to the Project.

PASSED AND ADOPTED at a regular meeting of the Hanford City Planning Commission by the following votes:

AYES: Commissioners
NOES: Commissioners
ABSTAIN: Commissioners
ABSENT: Commissioners

STATE OF CALIFORNIA)
COUNTY OF KINGS)ss.
CITY OF HANFORD)

I, **Jason Waters**, Secretary of the City of Hanford Planning Commission, do hereby certify the foregoing resolution was duly passed and adopted by the Planning Commission of the City of Hanford at a regular meeting thereof held on the 14th day of October 2025.

Jason Waters, Secretary

Prezone No. 0013-24
(project site outlined in red)

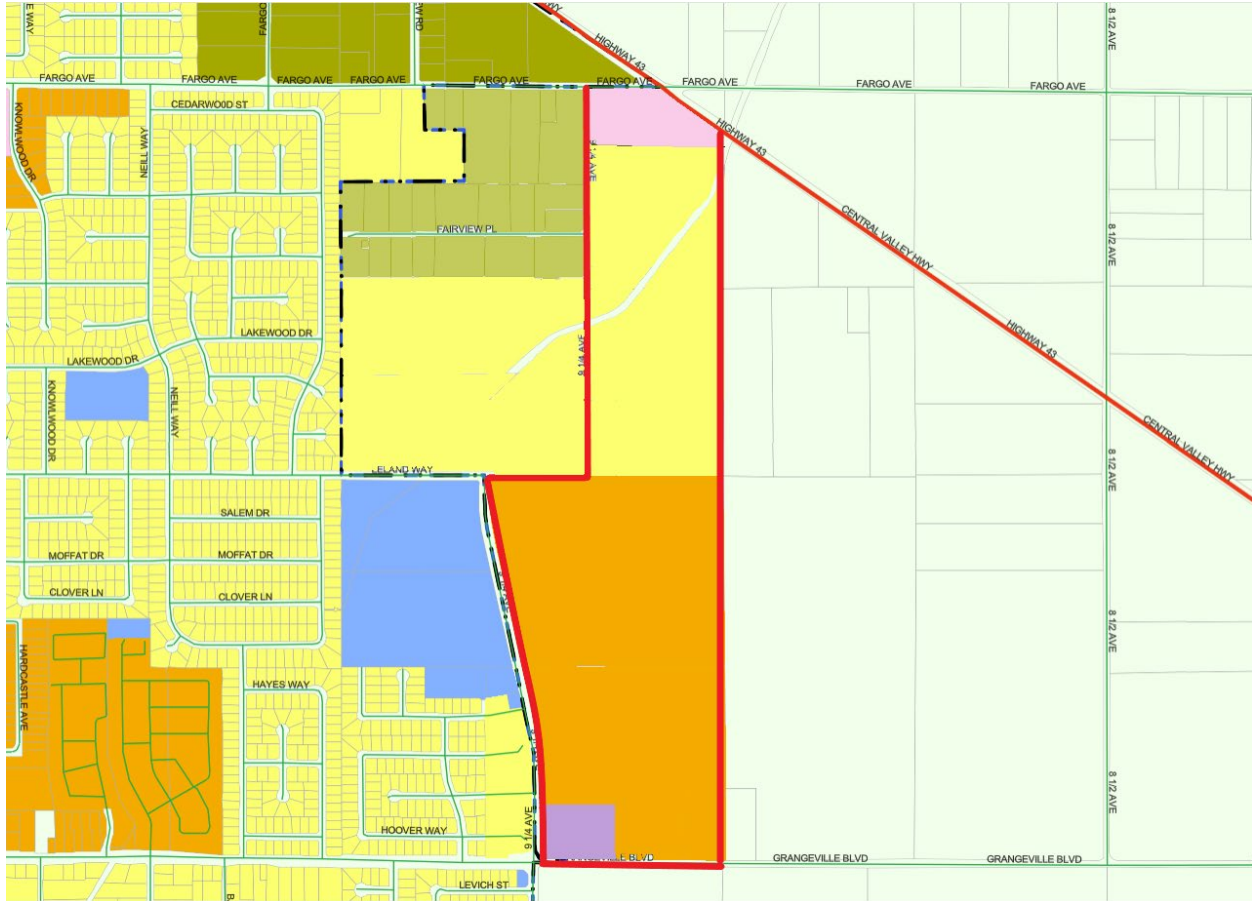


Exhibit B
Mitigation Monitoring and Reporting Program

MITIGATION MONITORING AND REPORTING PROGRAM

As required by Public Resources Code Section 21081.6, subd. (a)(1), a Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the Project in order to monitor the implementation of the mitigation measures that have been adopted for the Project. This Mitigation Monitoring and Reporting Program (MMRP) has been created based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) for the Copper Ridge Subdivision proposed by Quest Equity LLC in the City of Hanford.

The first column of the table identifies the mitigation measure. The second column names the party responsible for carrying out the required action. The third column, "Timing of Mitigation Measure" identifies the time the mitigation measure should be initiated. The fourth column, "Responsible Party for Monitoring," names the party ensuring that the mitigation measure is implemented. The last column will be used by the City of Hanford to ensure that the individual mitigation measures have been monitored.

Plan checking and verification of mitigation compliance shall be the responsibility of the City of Hanford.

MITIGATION MEASURE	RESPONSIBLE PARTY FOR IMPLEMENTATION	IMPLEMENTATION TIMING	RESPONSIBLE PARTY FOR MONITORING	VERIFICATION
Biological Resources				
Mitigation Measure BIO 1 (Construction Timing). If feasible, future construction activities will take place entirely outside of the avian nesting season, defined as February 1 to August 31.	Applicant Developer Builder	Ongoing	City of Hanford	
Mitigation Measure BIO 2 (Preconstruction Surveys). If construction must occur between February 1 and August 31, a qualified biologist will conduct surveys for active bird nests within 7 days prior to the start of work during this period. The survey area will encompass the site and accessible surrounding lands within ¼ mile for nesting Swainson's hawks, 500 feet for other nesting raptors, 300 feet for the tricolored blackbird, and 250 feet for	Applicant Developer Builder	7 days prior to construction	City of Hanford	

other nesting birds.				
Mitigation Measure BIO 3 (Avoidance of Active Nests). Should any active nests be discovered in or near proposed construction zones, the biologist will identify a suitable construction-free buffer around the nest. This buffer will be identified on the ground with flagging or fencing and will be maintained until the biologist has determined that the young have fledged and are capable of foraging independently.	Applicant Developer Builder	Ongoing	City of Hanford	
Cultural Resources				
Mitigation Measure CUL-1: In the event of accidental discovery of unidentified archaeological remains during development or ground disturbing activities in the Project area, all work shall be halted in immediate vicinity (within a 100-foot radius) until a qualified archaeologist can identify the discovery and assess its significance.	Applicant/ Construction Contractor	Ongoing during construction	City of Hanford	
Mitigation Measure CUL 2: If human remains are uncovered during construction, work shall be halted, and the Kings County Coroner is to be notified to investigate the remains and arrange proper treatment and disposition. If the remains	Applicant/ Construction Contractor	Ongoing during construction	City of Hanford	

are identified on the basis of archaeological context, age, cultural associations, or biological traits to be those of a Native American, California Health and Safety Code 7050.5 and California Public Resources Code 5097.98 require that the coroner notify the Native American Heritage Commission (NAHC) within 24 hours of discovery. The NAHC will then identify the Most Likely Descendent who will make recommendations regarding the treatment and disposition of the remains.				
Mitigation Measure CUL 3 A burial Treatment Plan shall be entered into by the Project applicant/property owner prior to any ground disturbing activities.	Applicant Construction Contractor	Prior to ground disturbing activities	City of Hanford	

AMENDED RESOLUTION 2025-33

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF HANFORD RECOMMENDING APPROVAL TO THE CITY COUNCIL OF PLANNED UNIT DEVELOPMENT NO. 0037-24: A REQUEST TO ALLOW VARIOUS DEVIATIONS FROM THE REGULATION OF THE R-M MEDIUM-DENSITY RESIDENTIAL ZONE DISTRICT FOR THE MIXED USE SUBDIVISION (TT 945), INCLUDING REDUCED LOT SIZE, LOT WIDTH, LOT DEPTH, SITE AREA PER DWELLING UNIT REQUIREMENTS, SETBACKS, OPEN SPACE DIMENSIONS, AND ALLOW REMOVAL OF THE BLOCK WALL REQUIREMENT BETWEEN MX-N NEIGHBORHOOD MIXED USE AND R-M MEDIUM-DENSITY RESIDENTIAL.

THE PROJECT IS LOCATED NORTH OF GRANGEVILLE BOULEVARD AND EAST OF 9 ¼ AVENUE (APNS 014-143-069 AND 014-143-078)

At a regular meeting of the Planning Commission of the City of Hanford duly called and held on October 14, 2025, by motion of Commissioner _____, and seconded by Commissioner _____ and duly carried, the following resolution was adopted:

WHEREAS, Planned Unit Development No. 0037-24, a request to allow various deviations from the regulation of the R-M Medium-Density Residential zone district for the mixed use subdivision, proposed under Tentative Tract 945, **Exhibit A**, including reduced lot size, lot width, lot depth, site area per dwelling unit requirements, setbacks, open space dimensions, and allow removal of the block wall requirement between MX-N Neighborhood Mixed Use and R-M Medium-Density Residential, has been reviewed by the Planning Commission of the City of Hanford, in accordance with Title 17 of the Hanford Municipal Code; and

WHEREAS, the project is located north of Grangeville Boulevard and east of 9 ¼ Avenue (APNs 014-143-069 and 014-143-078); and

WHEREAS, elevations are proposed and required for the development, as shown in **Exhibit B**; and

WHEREAS, all notices related to conducting public hearings were prepared and published in compliance with State Government Code; and

WHEREAS, all affected public utility companies, various governmental department agencies, and the Planning Commission staff have given careful consideration to this tentative subdivision map and have made recommendations thereon; and

WHEREAS, the Initial Study, Mitigated Negative Declaration No. 2025-73 (SCH# 2024121093) and all notices related thereto were prepared in compliance with the California Environmental Quality Act (CEQA) and the City of Hanford Municipal Code and Policies; and

NOW THEREFORE, BE IT RESOLVED, that the Planning Commission hereby recommends that the City Council of the City of Hanford find that no significant environmental impacts would result from the proposed project with the incorporation of mitigation measures, adopt a Mitigation and Monitoring Reporting Program, attached as **Exhibit C**, and certify that Mitigated Negative

Declaration No. 2025-73 was prepared consistent with CEQA and City of Hanford Environmental Guidelines.

BE IT FURTHER RESOLVED, Pursuant to Section 17.82.060 of the Hanford Municipal Code, six findings must be made before approval of the planned unit development application:

1. That the location and design of the PUD is in accordance with the purpose of this title;

Analysis: Location - That in accordance with Section 17.82.050 of the Hanford Municipal Code, a planned unit development shall be a minimum five-acre site area, except that there shall be no minimum site area requirements if the site is an infill development site. The planned unit development pertains to an 83.61-acre development site.

Design – the Planned Unit Development will allow the development of a 650-unit single- and multi-family mixed-use development, proposed under Tentative Tract 945. The design has been evaluated in accordance with the requirements of the MX-N Neighborhood Mixed Use and R-M Medium-Density Residential zone district.

2. That the PUD is being proposed to achieve one or more of the objectives identified in Section 17.82.030;

Purpose: That planned unit developments are encouraged to achieve a more functional, aesthetically pleasing, and harmonious living and working environment within the City, that otherwise might not be possible by strict adherence to the provisions of the municipal code. In certain instances, the objectives of the municipal code may be achieved by development that does not conform in all respects with the land use pattern designated on the zoning map or in the zone district prescribed. The planned unit development seeks to:

- ✓ To permit a site within more than one zone district to mix the permitted or conditionally permitted land uses of both zones within the site without regard to the zone district boundary.
- ✓ To permit development intensity greater than would otherwise be permitted by the implementation of the standards of the zone district in which the site is located;
- ✓ To permit the lot patterns on size, shape, and layout that would otherwise not be permitted by the standards of the zone district in which the site is located;
- ✓ To modify the required building setbacks, distances between structures, and landscaped areas that would otherwise be required by this title;
- ✓ To permit the implementation of the mixed use provisions in the MX-N, MX-C, or MX-D zone districts.

3. The location and design of the PUD and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety or welfare of the community to properties or improvements in the vicinity.

Analysis:

Design and Purpose - That planned unit developments are encouraged to achieve a more functional, aesthetically pleasing, and harmonious living and working environment within the City, that otherwise might not be possible by strict adherence to the provisions of the municipal code. In certain instances, the objectives of the municipal code may be achieved by development that does not conform in all respects with the land use pattern designated on the zoning map or in the zone district prescribed. The planned unit development seeks to:

- ✓ To permit a site within more than one zone district to mix the permitted or conditionally permitted land uses of both zones within the site without regard to the zone district boundary.
- ✓ To permit development intensity greater than would otherwise be permitted by the implementation of the standards of the zone district in which the site is located;
- ✓ To permit the lot patterns on size, shape, and layout that would otherwise not be permitted by the standards of the zone district in which the site is located;
- ✓ To modify the required building setbacks, distances between structures, and landscaped areas that would otherwise be required by this title;
- ✓ To permit the implementation of the mixed use provisions in the MX-N, MX-C, or MX-D zone districts.

Design – The Planned Unit Development will allow the development of a 650-unit single- and multi-family mixed-use development, proposed under Tentative Tract 945. The design has been evaluated in accordance with the requirements of the MX-N Neighborhood Mixed Use and R-M Medium-Density Residential zone district.

4. The location and design of the PUD will not generate more traffic than the streets in the vicinity can carry without congestion, and will not overload utilities;

Analysis: A traffic impact analysis was conducted for the initial study, which demonstrated that the location and design of the proposed development will not generate more traffic than the streets in the vicinity can handle without congestion, with the application of Engineering Conditions of Approval, conditioning the right-of-way development.

5. That the PUD's population density, site area and dimensions, site coverage, yard spaces, height of structures, distances between structures, off-street parking and off-street loading facilities, landscaped areas and street design will produce an environment of stable and desirable character consistent with the purpose of this title;

Analysis: The PUD's population density is within the allowable range prescribed for the R-M Medium-Density and MX-N Neighborhood Mixed Use zone district. The site area, dimensions, site coverage, yard spaces, height of structures, distances between structures, parking, and landscaping were

evaluated for conformance with the MX-N Neighborhood Mixed Use zone district and R-M Medium-Density Residential zone district regulations. Deviations were requested, as follows:

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet
	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-foot wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.
§ 17.24.130 Screening, fences, and walls.	A block wall with a minimum height of seven (7) feet shall be provided along any side or rear lot line that abuts an R-L, R-M, R-H, OR, PF, AP, or CO zone district.	Deviation request to remove the block wall requirement between the MX-N and R-M zone district to allow for integration and mixed uses between sites.

The deviations proposed will allow the development, as proposed in Tentative Tract 945 and will produce an environment of stable and desirable character, achieving goals L6 and L7 of the General Plan to provide for a wide range of housing choices that insure opportunities for a variety of age groups, lifestyles, and income levels and allow residential densities that encourage both compact and infill development.

6. The combination of different dwelling types, architectural appearance, and/or varieties of land uses in the development will complement each other and will harmonize with the existing and proposed land uses in the vicinity; and

Analysis: The combination of single-family and multi-family dwellings and commercial development provides for a mix of uses for the Neighborhood Mixed-Use and R-M Medium-Density Residential zone district. The uses will compliment and harmonize with each other and the surrounding land uses. The deviations proposed will allow the development, as proposed in Tentative Tract 945 which

achieves goals L6 and L7 of the General Plan to provide for a wide range of housing choices that ensure opportunities for a variety of age groups, lifestyles, and income levels and allow residential densities that encourage both compact and infill development.

THEREFORE, BE IT RESOLVED that the Planning Commission of the City of Hanford hereby recommends approval of Planned Unit Development No. 0037-24 to the City Council, subject to the conditions of approval, attached as **Exhibit D**, and the following:

1. That this Planned Unit Development shall expire with the tentative subdivision map, which becomes null and void after 24 months has elapsed from the date of approval, if the above conditions have not been satisfied or bonded for, and a final map recorded. A time extension may be granted by the Commission upon written request by the applicant. The time extension, if approved, will be subject to the improvement standards and fees in effect at the time the extension for the tentative subdivision map is granted.

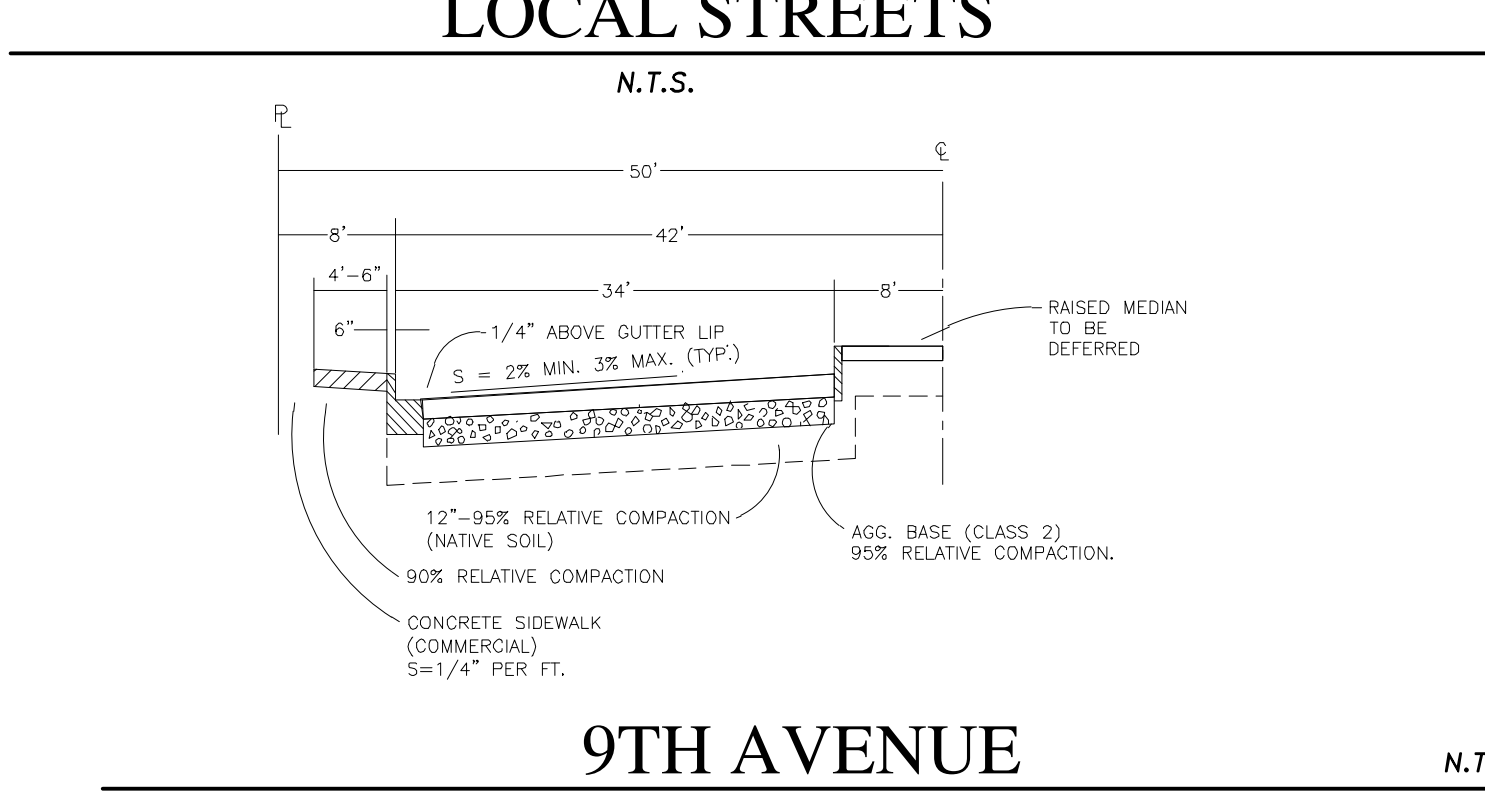
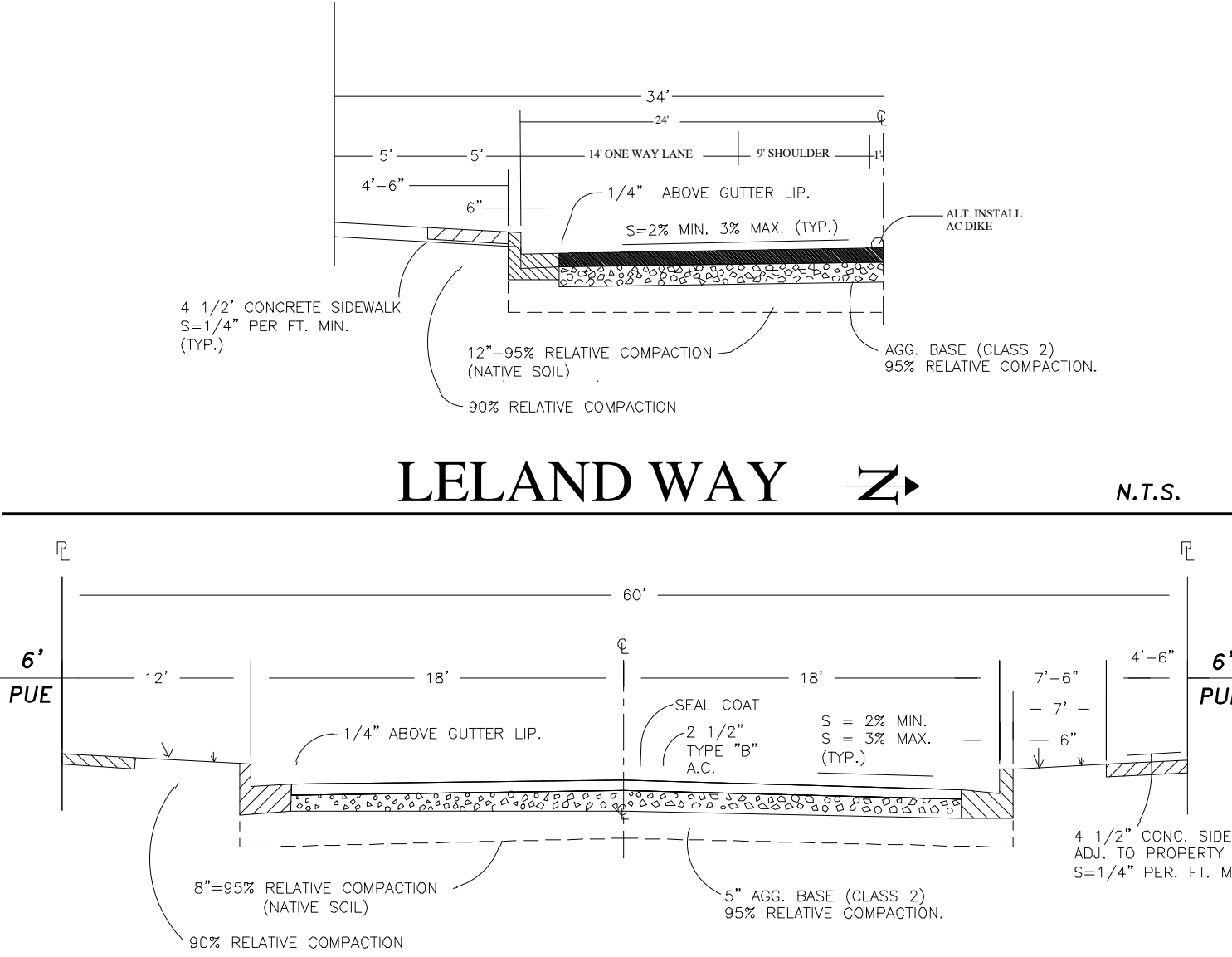
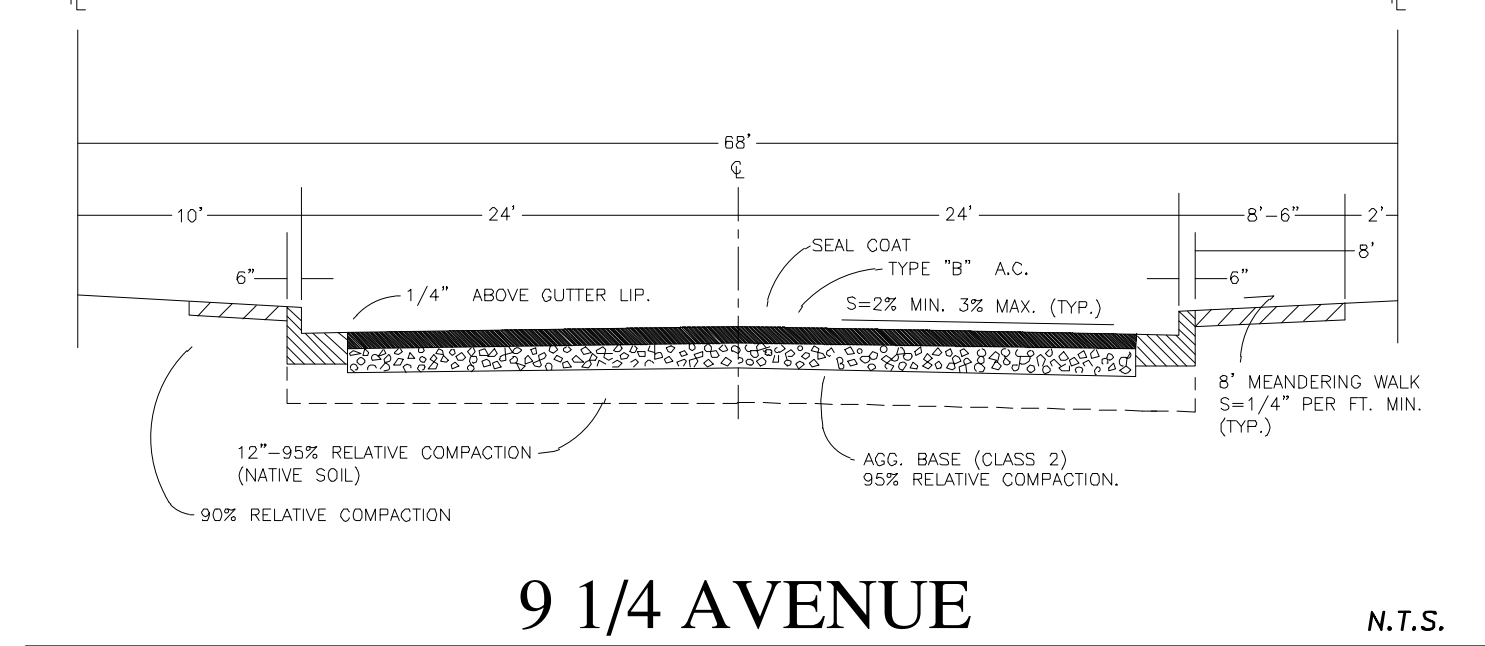
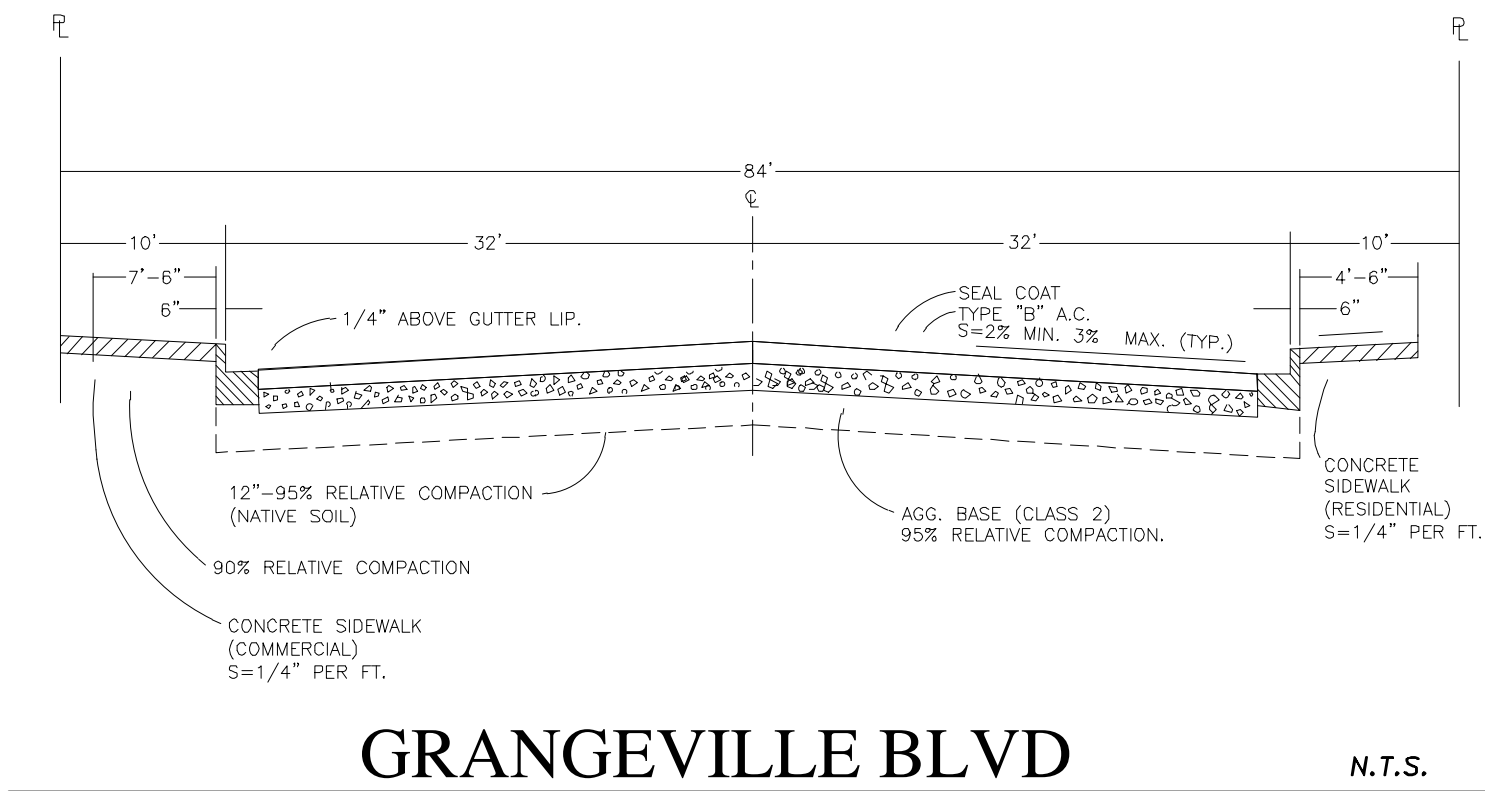
PASSED AND ADOPTED at a regular meeting of the Planning Commission of the City of Hanford by the following vote:

AYES:	Commissioners
NOES:	Commissioners
ABSTAIN:	Commissioners
ABSENT:	Commissioners

STATE OF CALIFORNIA)
COUNTY OF KINGS)ss
CITY OF HANFORD)

I, **Jason Waters**, Secretary of the Planning Commission of the City of Hanford, do hereby certify the foregoing Resolution was duly passed and adopted by the Planning Commission of the City of Hanford at a regular meeting thereof held on the **14th** day of **October 2025**.

Jason Waters, Deputy City Manager
Secretary of the Planning Commission



OWNER
WARMERDAM FAMILY TRUST
10426 EXCELSIOR AVE. HANFORD, CA, 93230
DADIGIAN FAMILY TRUST 2001
2491 16TH AVE. KINGSBURG, CA, 93631

DEVELOPER
N & M CAPITAL LLC
GREG NUNLEY (559)799-6993
1878 N MOONEY BLVD SUITE J
TULARE, CA 93274

PROJECT INFO
NORTH EAST CORNER OF 9 1/4 AVENUE AND GRANGEVILLE BLVD
APN: 014-143-069, 014-143-078
TOTAL AREA: 83.61 AC
EXIST. USE: VACANT/ AG
PROPOSED USE: SINGLE FAMILY PUD, NEIGHBORHOOD COMMERCIAL
FLOOD ZONE: X
SEWER: CITY OF HANFORD
WATER: CITY OF HANFORD
STORM DRAIN: CITY OF HANFORD
MIN. LOT SIZE: 2,800 SF; MAX. LOT SIZE: 11,540 SF
SINGLE FAMILY UNITS: 350
MULTI FAMILY UNITS: 300
RESIDENTIAL ACREAGE: 78.16 AC
DENSITY: 8.31 UNITS/AC
COMMERCIAL ACREAGE: 5.45 AC
OUTLOTS A-I TO BE DEDICATED TO CITY OF HANFORD
B.M.: CITY OF HANFORD #45B-ELEV:253.51 (2021 DATUM)

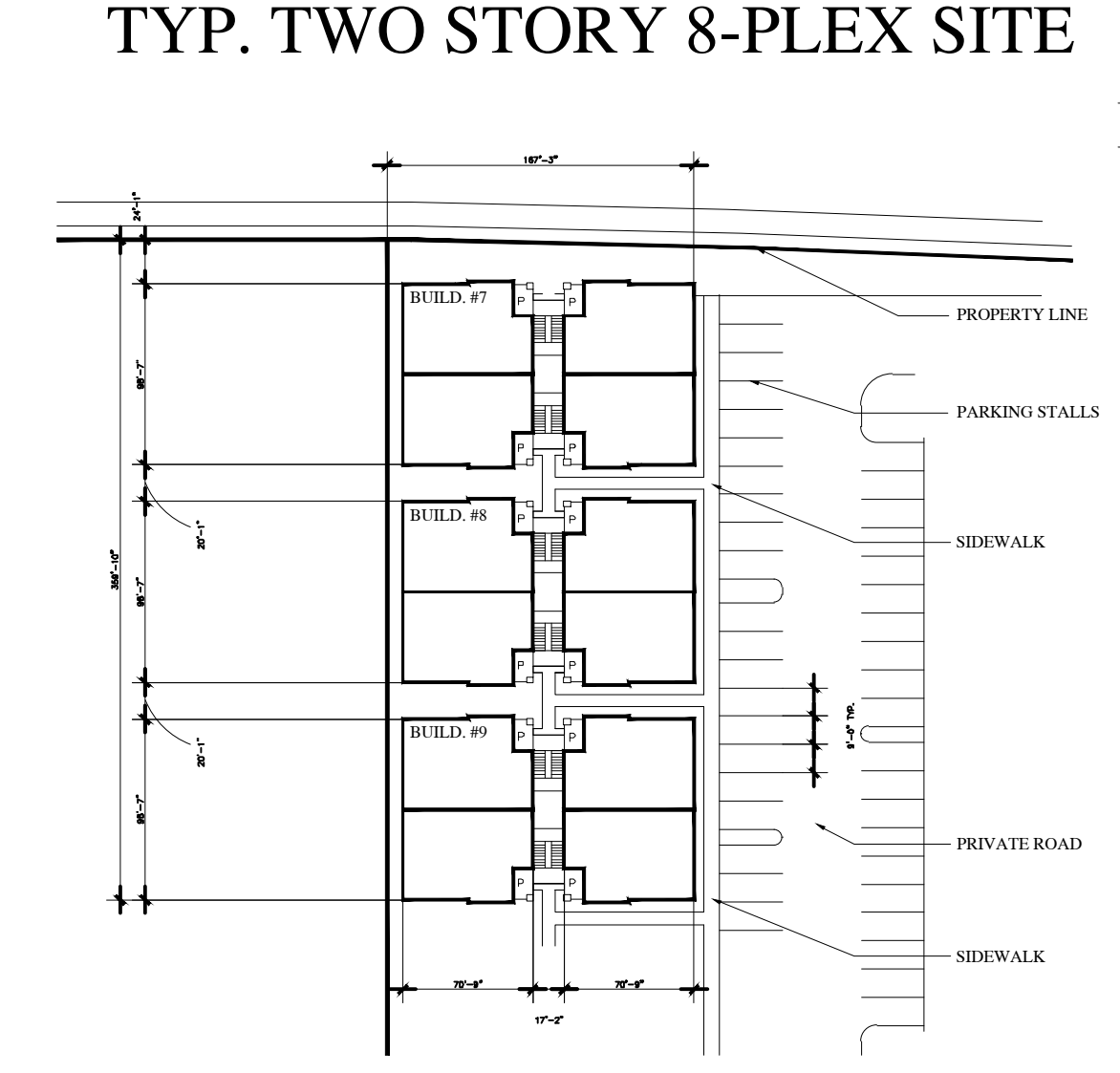
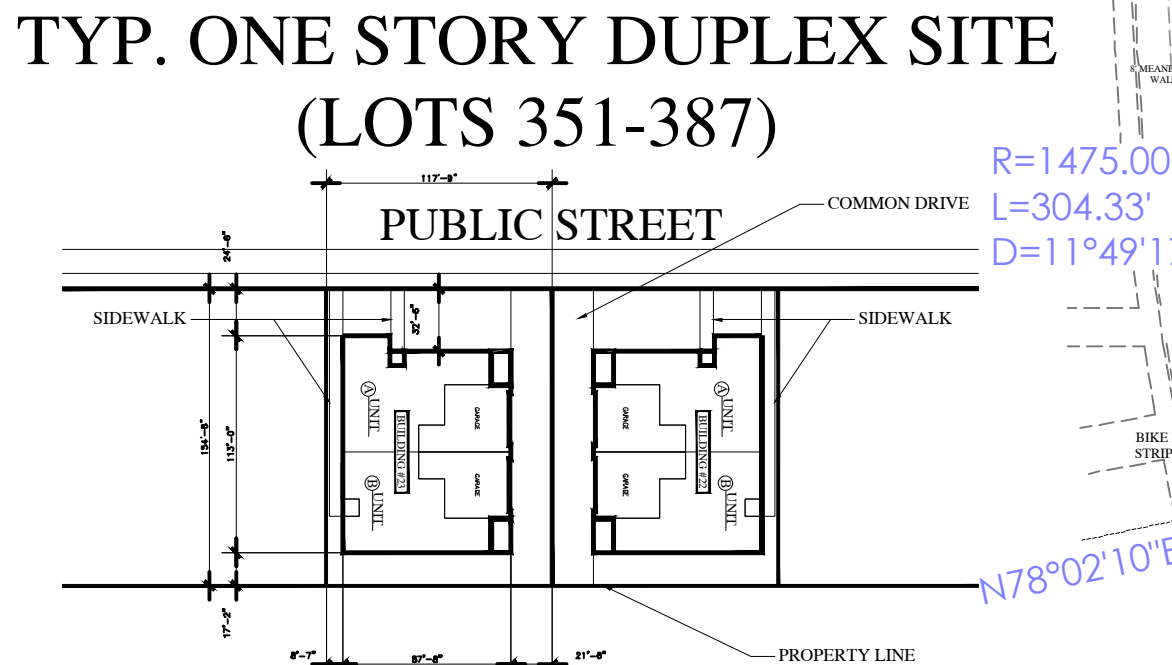
PHASES INFO					
PHASE 1	181 UNITS	40' WIDE LOTS: 115	45' WIDE LOTS: 66	MULTI FAMILY UNITS: 0	RETAIL: 0 SF
PHASE 2	150 UNITS	40' WIDE LOTS: 91	45' WIDE LOTS: 59	MULTI FAMILY UNITS: 0	RETAIL: 0 SF
PHASE 3	89 UNITS	40' WIDE LOTS: 19	45' WIDE LOTS: 0	MULTI FAMILY UNITS: 74	RETAIL: 0 SF
PHASE 4	110 UNITS	40' WIDE LOTS: 0	45' WIDE LOTS: 0	MULTI FAMILY UNITS: 106	RETAIL: 0 SF
PHASE 5	120 UNITS	40' WIDE LOTS: 0	45' WIDE LOTS: 0	MULTI FAMILY UNITS: 120	RETAIL: 37,700 SF
TOTAL	650 UNITS	40' WIDE LOTS: 225	45' WIDE LOTS: 125	MULTI FAMILY UNITS: 300	RETAIL: 37,700 SF

TRACT NO. 945 TENTATIVE SUBDIVISION MAP COPPER RIDGE

HANFORD CALIFORNIA
OCTOBER 8, 2025

LEGAL DESCRIPTION
Real property in the unincorporated area of the County of Kings, State of California, described as follows:
ALL THAT PORTION OF THE SOUTHEAST QUARTER OF SECTION 19, TOWNSHIP 18 SOUTH, RANGE 22 EAST, MOUNT Diablo COVE AND MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF, SHOWN AS PARCEL 239 PARCEL MAP RECORDED IN BOOK 7 AT PAGE 12, OF PARCEL MAPS, KINGS COUNTY.
EXCEPTING THEREFROM UNTO A. M. WARMERDAM AN UNDIVIDED ONE-FOURTH INTEREST IN AND TO ALL OF THE OIL, GAS, MINERAL AND MINERAL RIGHTS IN AND UNDER SAID LAND, AS EXCEPTED AND RESERVED IN DEED DATED JUNE 5, 1975 IN BOOK 1062 PAGE 649 AS DOCUMENT NO. 6092 OF OFFICIAL RECORDS.
ALSO EXCEPTING THEREFROM THAT PORTION COMVEYED TO HANFORD ELEMENTARY SCHOOL DISTRICT IN AND TO THAT PORTION OF SAID LAND DESCRIBED IN DEED RECORDED JANUARY 30, 2004 AS DOCUMENT NO. 0402594, KINGS COUNTY OFFICIAL RECORDS.
ALSO EXCEPTING THEREFROM THAT PORTION COMVEYED TO MELLODD DEVELOPMENT INC., A CALIFORNIA CORPORATION IN DEED RECORDED APRIL 25, 2005 AS INSTRUMENT NO. 09-12268 OF OFFICIAL RECORDS.
ALSO EXCEPTING THEREFROM THAT PORTION OF LAND COMVEYED TO THE CITY OF HANFORD, A MUNICIPAL CORPORATION, IN GRANT DEED RECORDED OCTOBER 09, 2013 AS INSTRUMENT NO. 1310090 OF OFFICIAL RECORDS.
APN: 014-143-078-000

LEGAL DESCRIPTION
Real property in the unincorporated area of the County of Kings, State of California, described as follows:
Parcel No. 1 of Parcel Map of that Parcel Map recorded in Book 2 of Parcel Maps at Page 93, Kings County Records in the Southeast Quarter of Section 19, Township 18 South, Range 22 East, Mount Diablo Base and Meridian filed June 17, 1989 in Book 7 of Parcel Maps at Page 12, Kings County Records.
Excepting therefrom that portion conveyed to Hanford Elementary School District, described in Deed recorded January 29, 2004 as Instrument No. 2004-2592 of Official Records, Kings County.
Also excepting therefrom that portion conveyed to the City of Hanford, by Deed recorded February 06, 2004 as Instrument No. 2004-3241 of Official Records, Kings County.
Also excepting therefrom that portion conveyed to The City of Hanford, a Municipal Corporation by Deed recorded October 25, 2004 as Instrument No. 2004-31953 of Official Records, Kings County.
And also excepting therefrom unto A.M. Warmerdam an undivided one-fourth interest in and to all of the oil, gas, minerals and mineral rights in and under said land, as excepted and reserved in deed recorded July 2, 1975 as Instrument No. 6992 in Book 1052 at Page 649, Official Records.
APN: 014-143-069-000



UNPLOTTABLE EASEMENTS

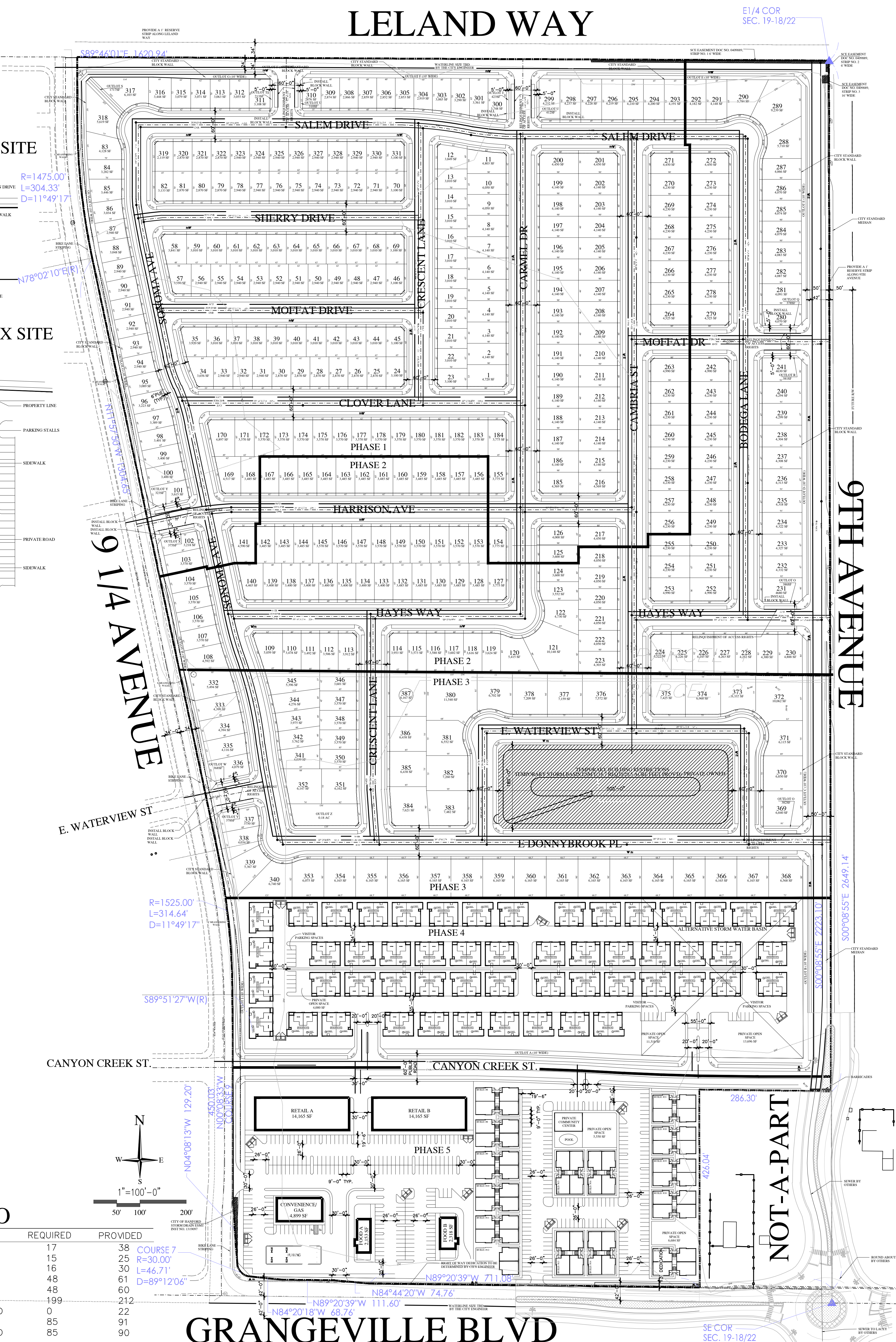
THE EFFECT OF RIGHT OF WAY OVER SAID PROPERTY AS DISCLOSED IN DEED FROM SAMUEL PAGE AND NANCY PAGE, HUSBAND AND WIFE, TO MARY A. GARVER, DATED JULY 5, 1892 AND RECORDED JULY 28, 1892 IN BK 54, PG 602 OF DEEDS, TULARE COUNTY.



VICINITY MAP
NOT TO SCALE

PARKING INFO

LAND USE	REQUIRED	PROVIDED
CONV./GAS	17	38
FOOD A	15	25
FOOD B	16	30
RETAIL A	48	61
RETAIL B	48	60
PHASE 4 MULTIFAM. COVERED	199	212
PHASE 4 MULTIFAM. UNCOVERED	0	22
PHASE 5 MULTIFAM. COVERED	85	91
PHASE 5 MULTIFAM. UNCOVERED	85	90



REVISIONS		DATE	BY
1			
2			
3			
4			

REVISIONS
DATE
BY

810 WEST ACEQUIA AVENUE
VISALIA, CA 93292
(559) 713-6139
overengineering09@gmail.com

TENTATIVE SUBDIVISION MAP
COPPER RIDGE
HANFORD CALIFORNIA

SITE
JOB NUMBER

Exhibit B
Elevations and Floor Plans

COPPER
RIDGE



HOUSE PLAN 1

FIRST FLOOR: 589 SF
SECOND FLOOR: 824 SF
TOTAL 1,413 SF

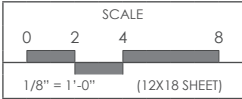
HOUSE PLAN 2

FIRST FLOOR: 659 SF
SECOND FLOOR: 905 SF
TOTAL 1,564 SF

HOUSE PLAN 3

FIRST FLOOR: 752 SF
SECOND FLOOR: 935 SF
TOTAL 1,687 SF

ELEVATIONS
“TRADITIONAL”





HOUSE PLAN 1

FIRST FLOOR: 589 SF
SECOND FLOOR: 824 SF
TOTAL 1,413 SF

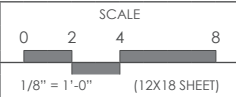
HOUSE PLAN 2

FIRST FLOOR: 659 SF
SECOND FLOOR: 905 SF
TOTAL 1,564 SF

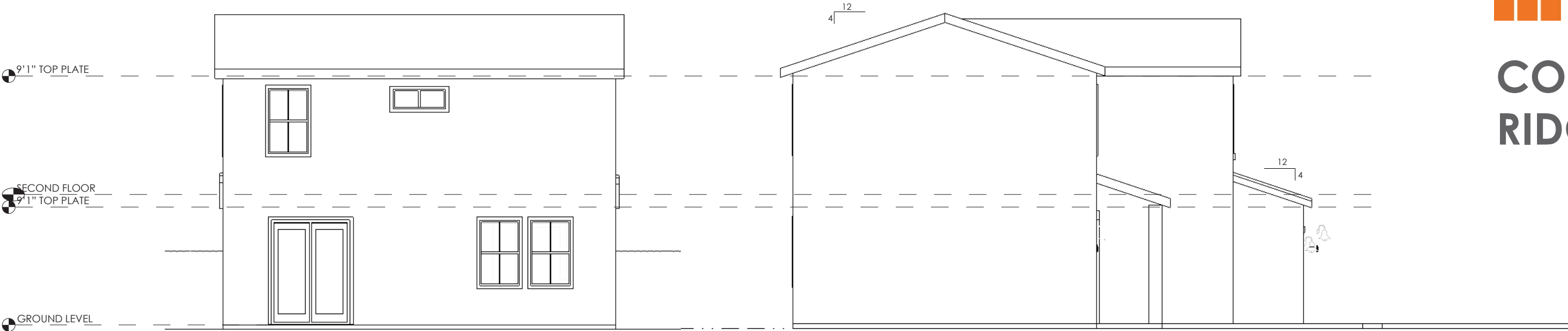
HOUSE PLAN 3

FIRST FLOOR: 752 SF
SECOND FLOOR: 935 SF
TOTAL 1,687 SF

ELEVATIONS
“FARMHOUSE”

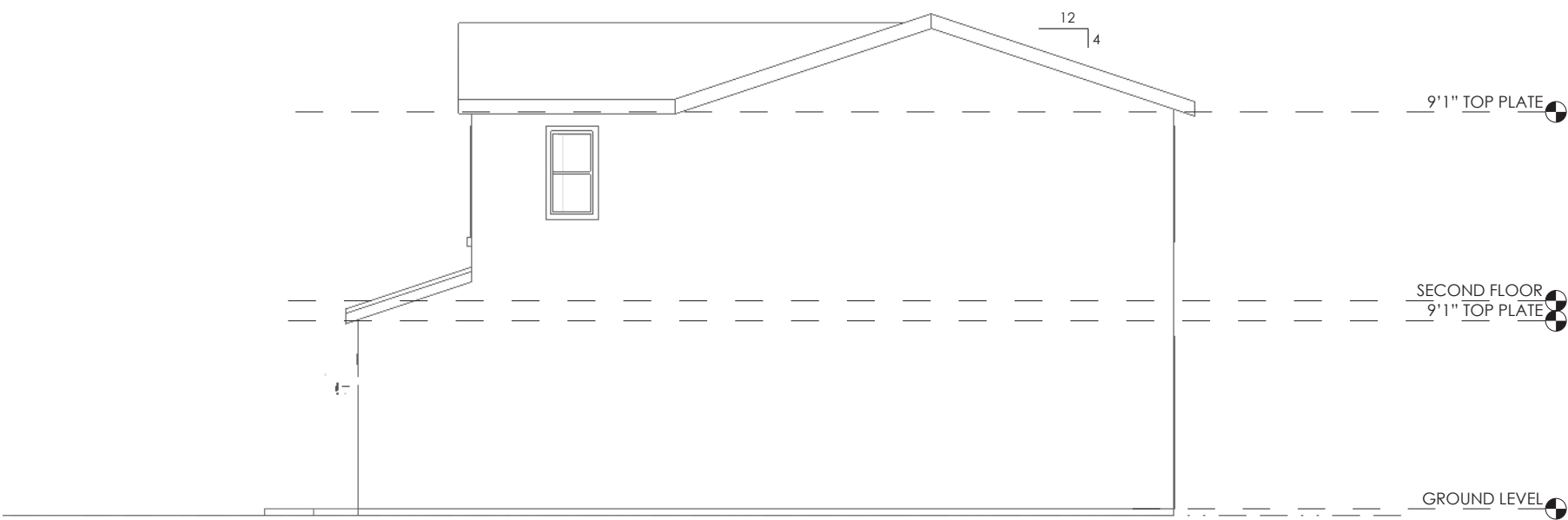


COPPER
RIDGE



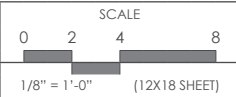
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

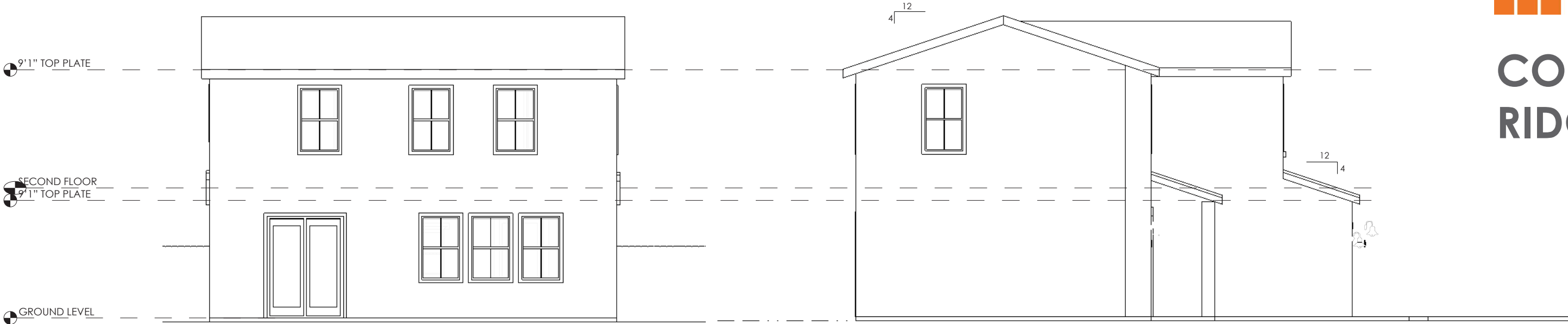


3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

ELEVATIONS
PLAN 1

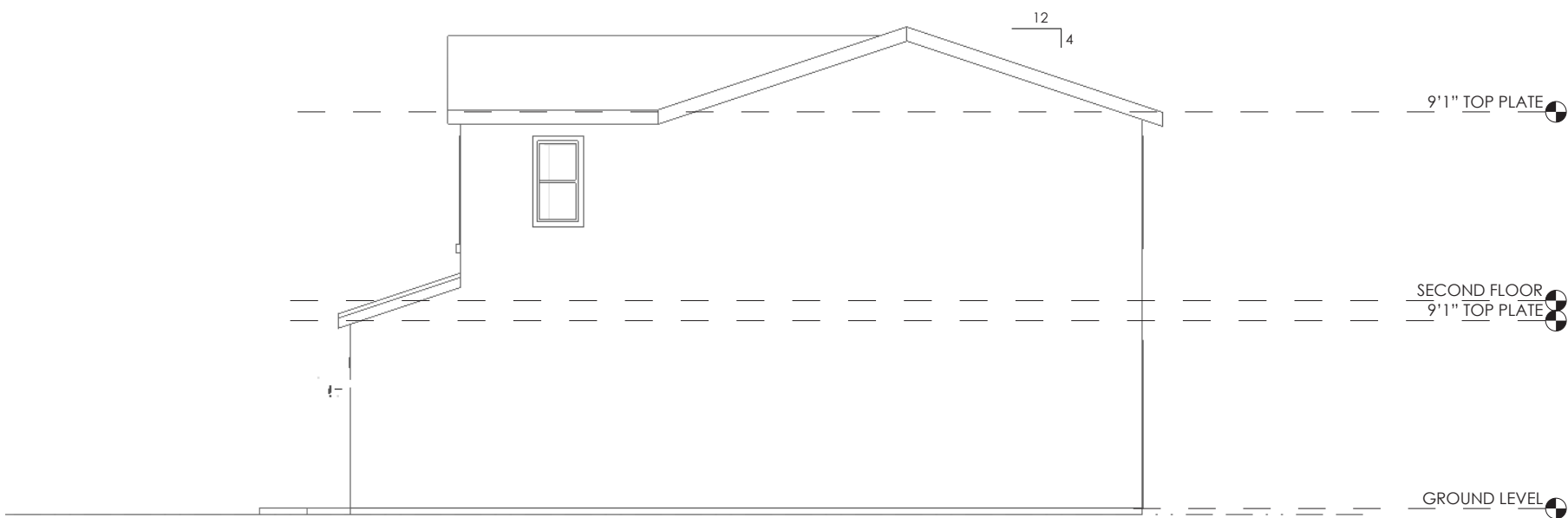


COPPER
RIDGE



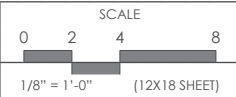
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

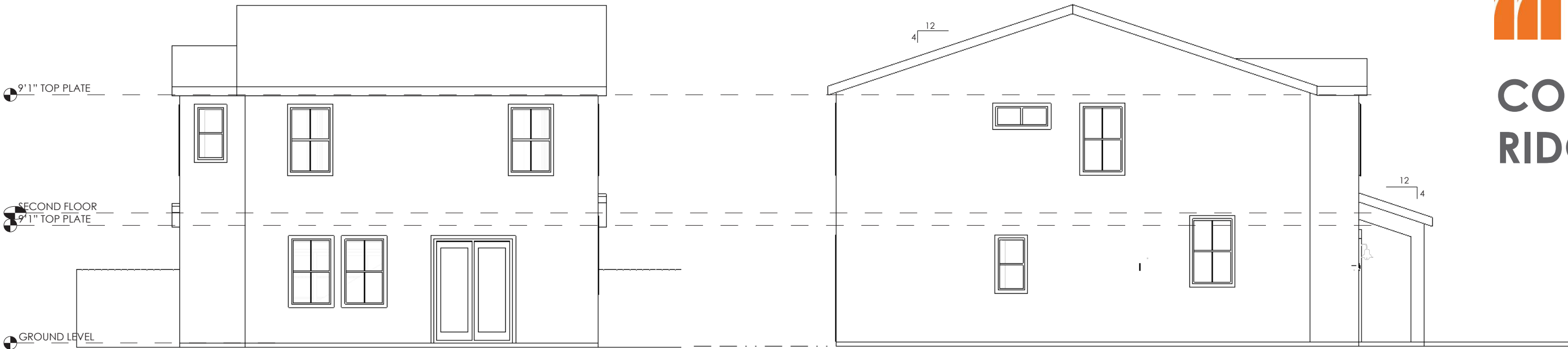
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

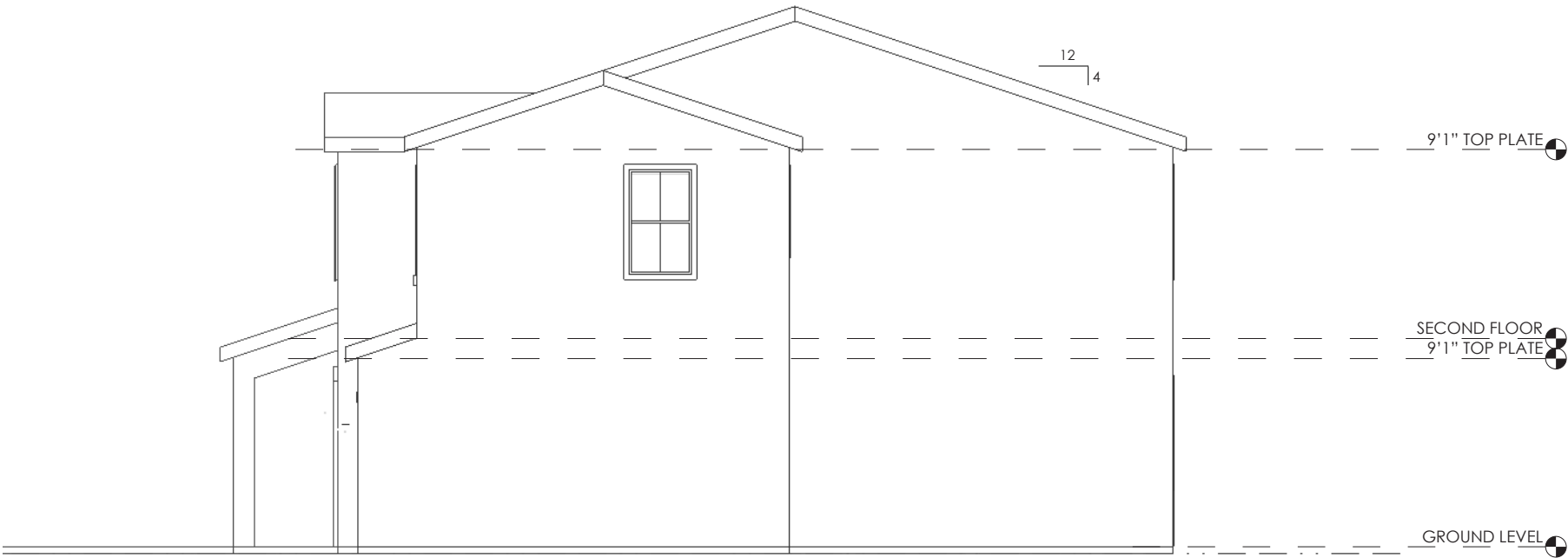
ELEVATIONS
PLAN 2





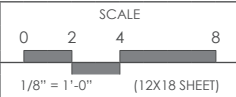
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

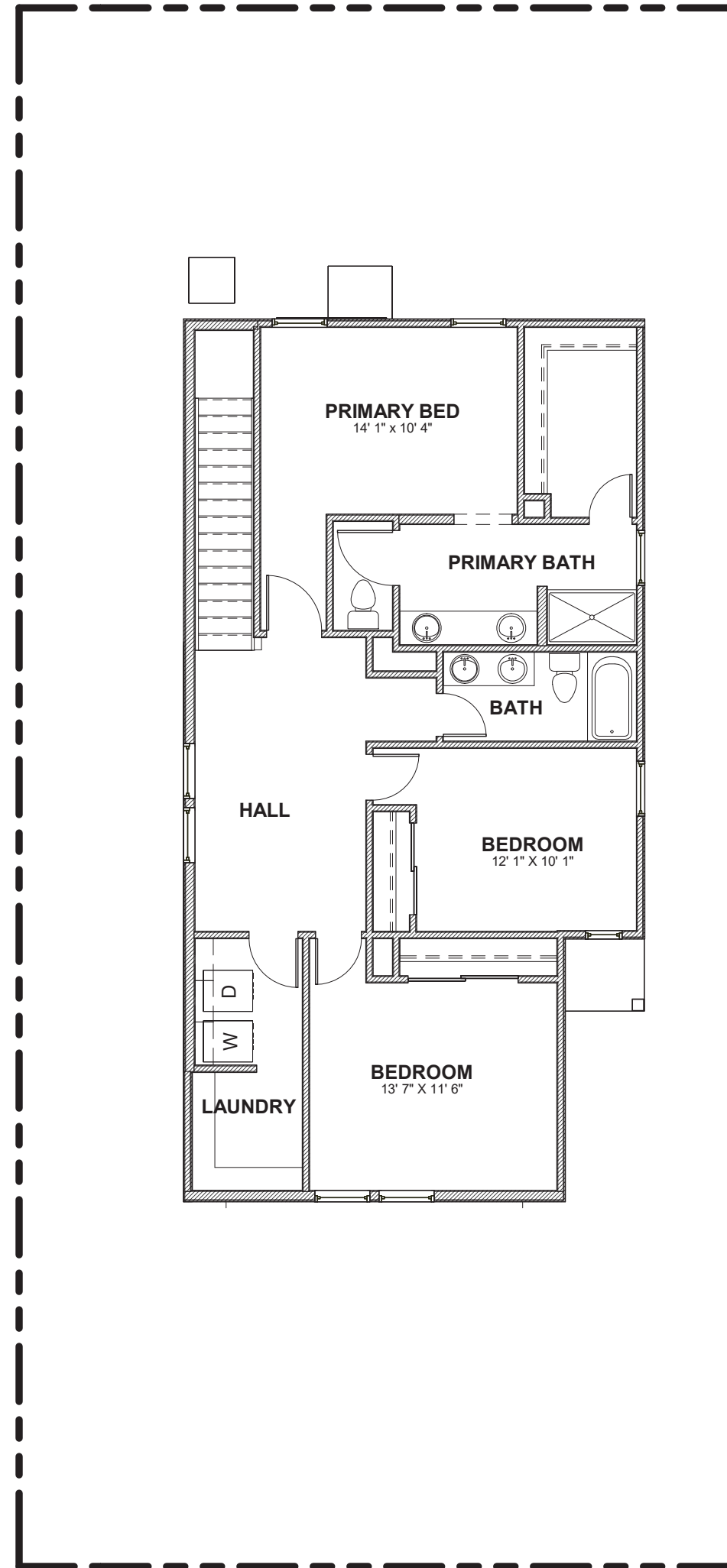
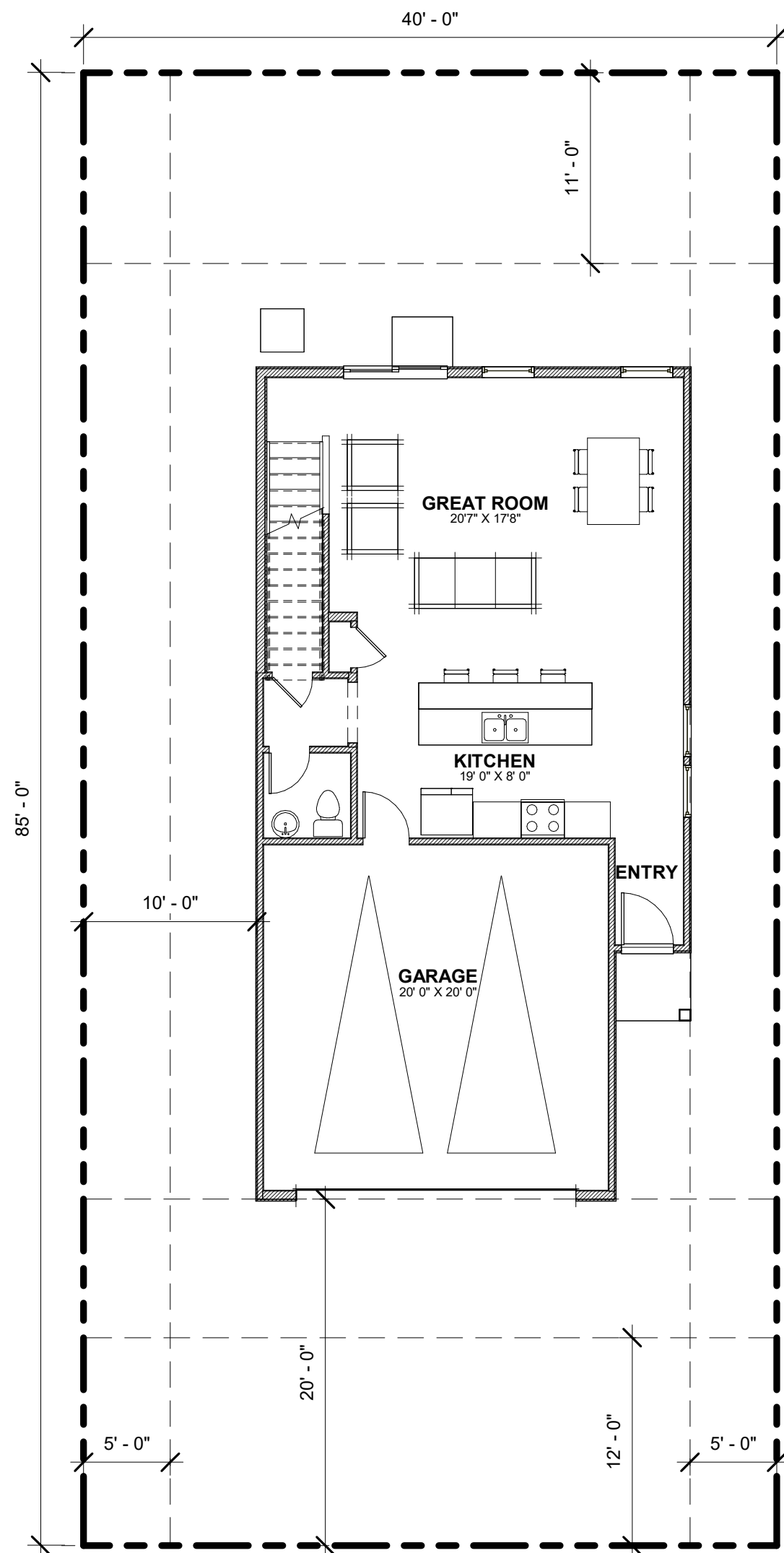
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

ELEVATIONS
PLAN 3





LENNAR®

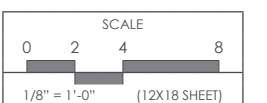
rrm
design
group

**COPPER
RIDGE**

HOUSE PLAN 1

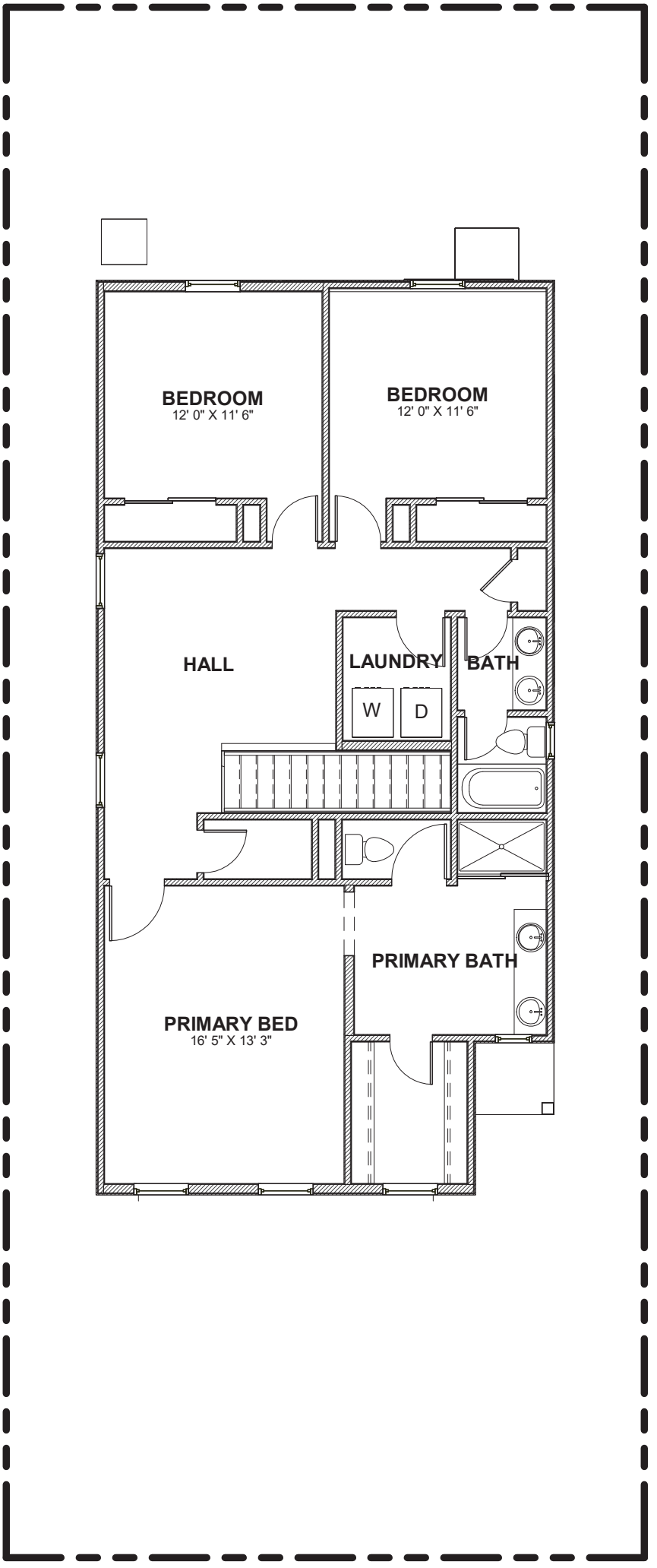
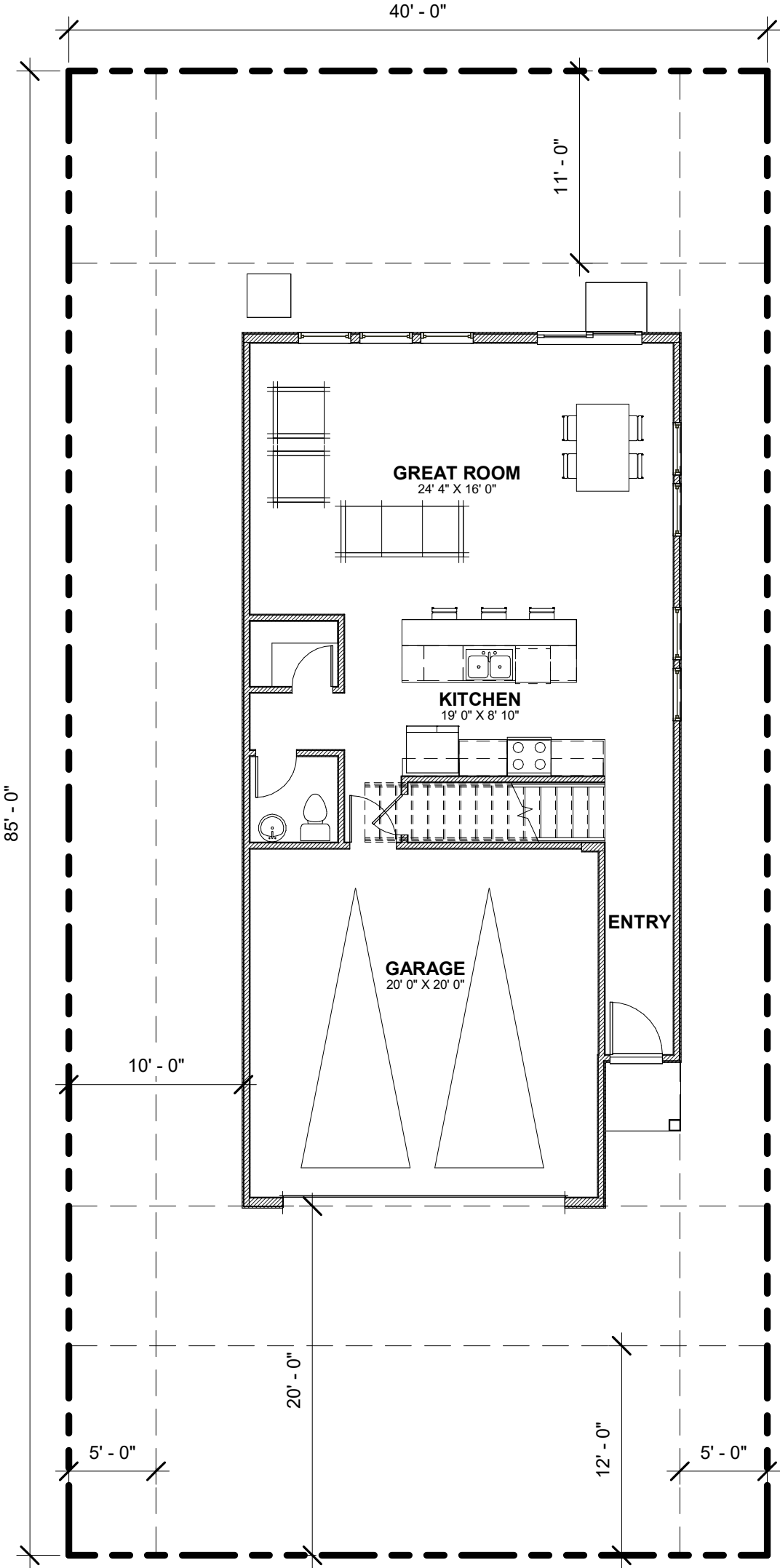
FIRST FLOOR: 1,148SF
SECOND FLOOR: 1,148SF
TOTAL 2,296SF

**FLOOR PLAN -
CELESTIAL**



10

#3151-02-HS24
10 APRIL 2024



LENNAR®

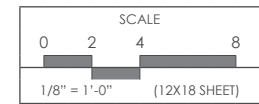


**COPPER
RIDGE**

HOUSE PLAN 2

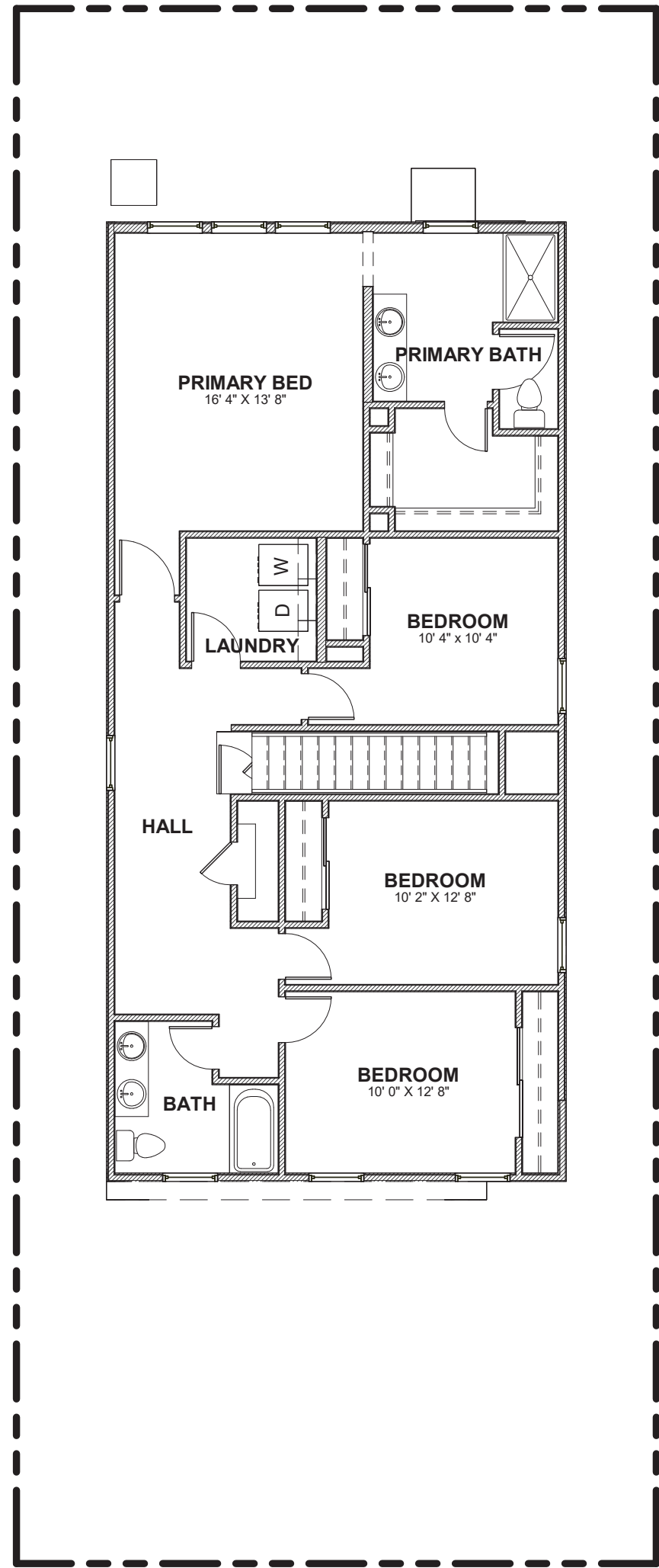
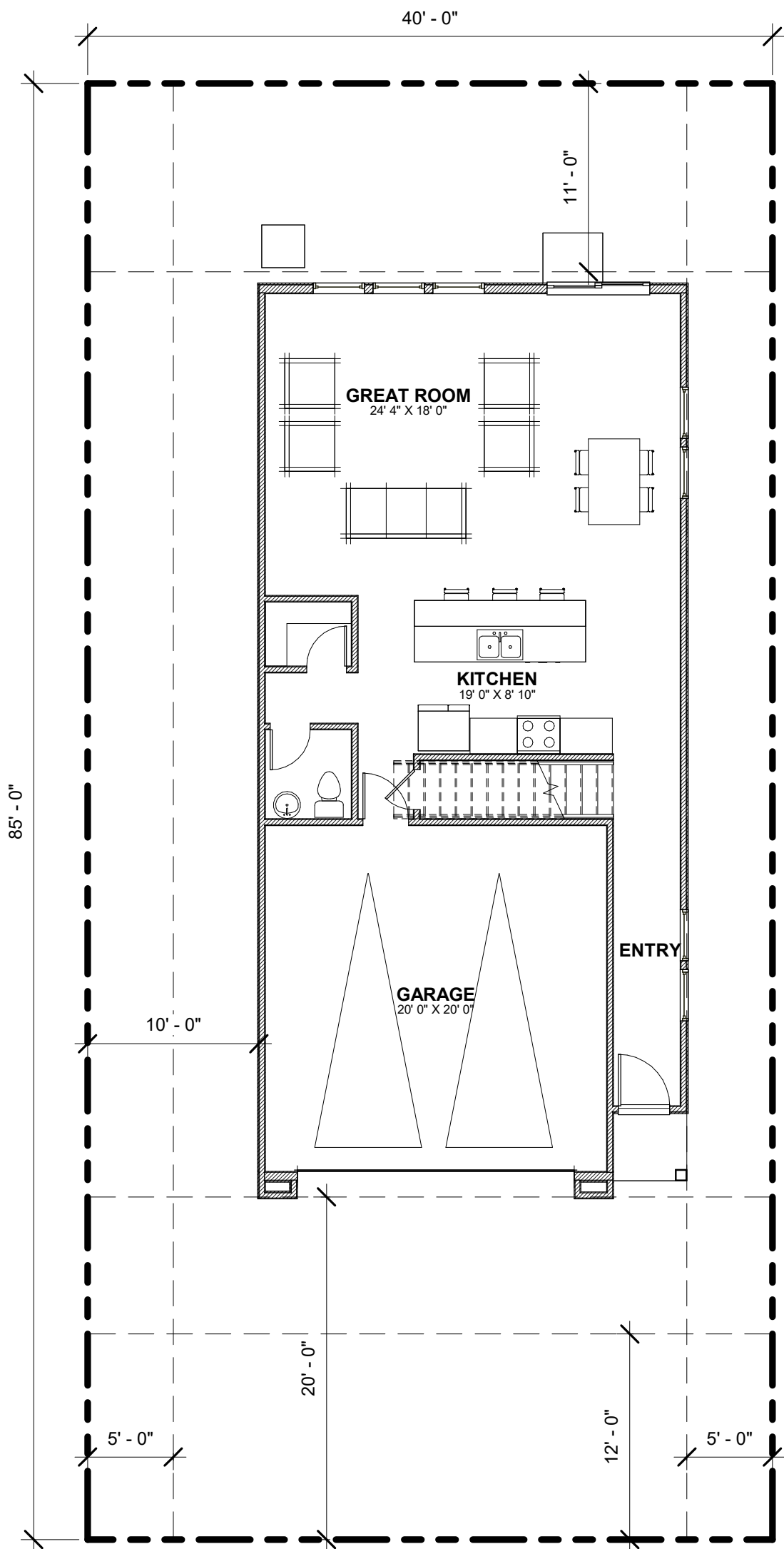
**FIRST FLOOR: 1,225SF
SECOND FLOOR: 1,225SF
TOTAL 2,450SF**

**FLOOR PLAN -
CELESTIAL**



11

#3151-02-HS24
10 APRIL 2024



LENNAR®

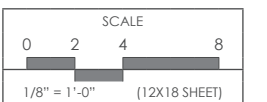
rrm
design
group

COPPER
RIDGE

HOUSE PLAN 3

FIRST FLOOR: 1,300SF
SECOND FLOOR: 1,320SF
TOTAL 2,620SF

FLOOR PLAN -
CELESTIAL



12

#3151-02-HS24
10 APRIL 2024



HOUSE PLAN 1

FIRST FLOOR: 1,148SF
SECOND FLOOR: 1,148SF
TOTAL 2,296SF

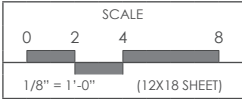
HOUSE PLAN 2

FIRST FLOOR: 1,225SF
SECOND FLOOR: 1,225SF
TOTAL 2,450SF

HOUSE PLAN 3

FIRST FLOOR: 1,300SF
SECOND FLOOR: 1,320SF
TOTAL 2,620SF

ELEVATIONS
“TRADITIONAL”





HOUSE PLAN 1

FIRST FLOOR: 1,148SF
SECOND FLOOR: 1,148SF
TOTAL 2,296SF

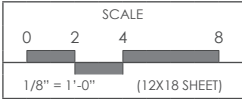
HOUSE PLAN 2

FIRST FLOOR: 1,225SF
SECOND FLOOR: 1,225SF
TOTAL 2,450SF

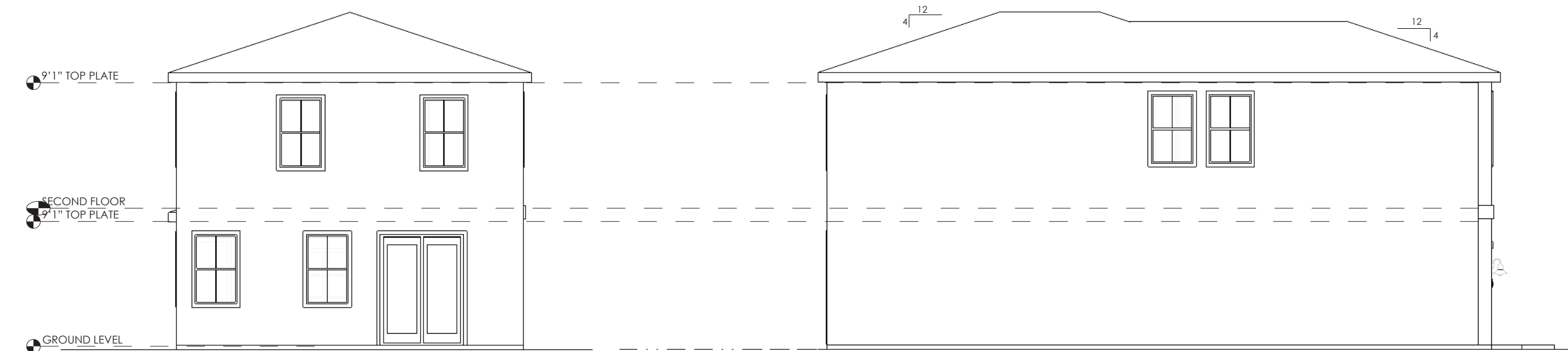
HOUSE PLAN 3

FIRST FLOOR: 1,300SF
SECOND FLOOR: 1,320SF
TOTAL 2,620SF

ELEVATIONS
“FARMHOUSE”

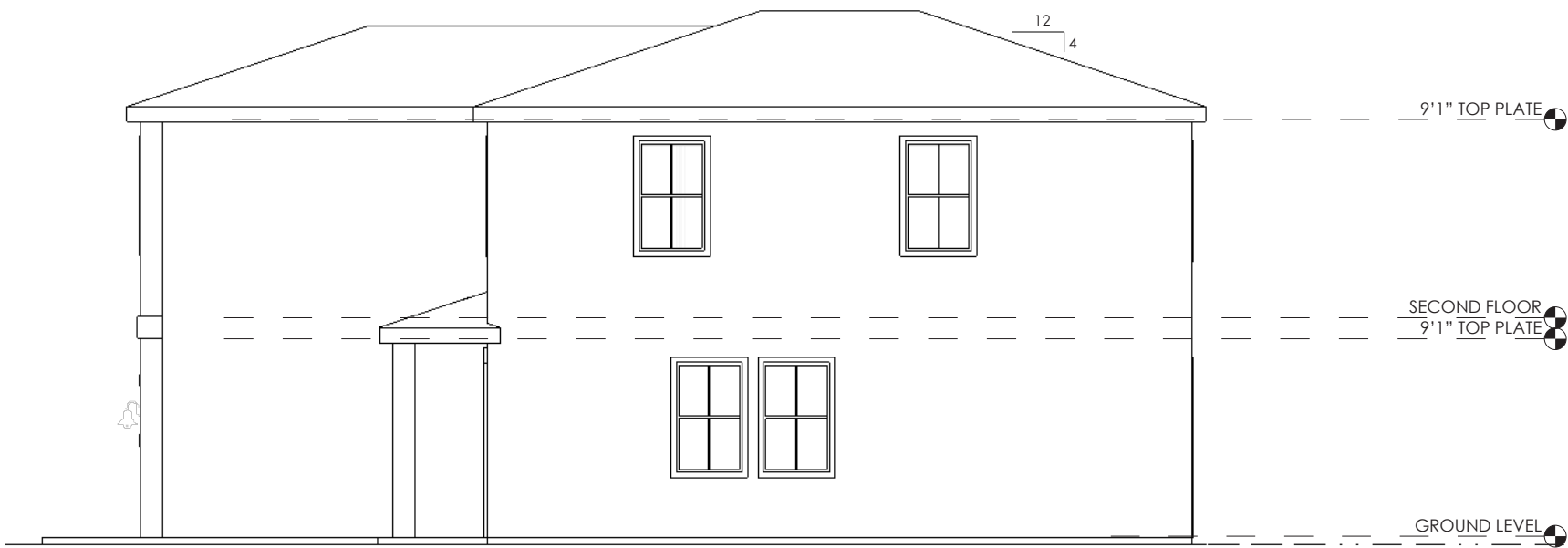


COPPER
RIDGE



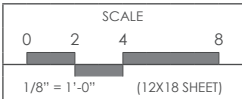
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

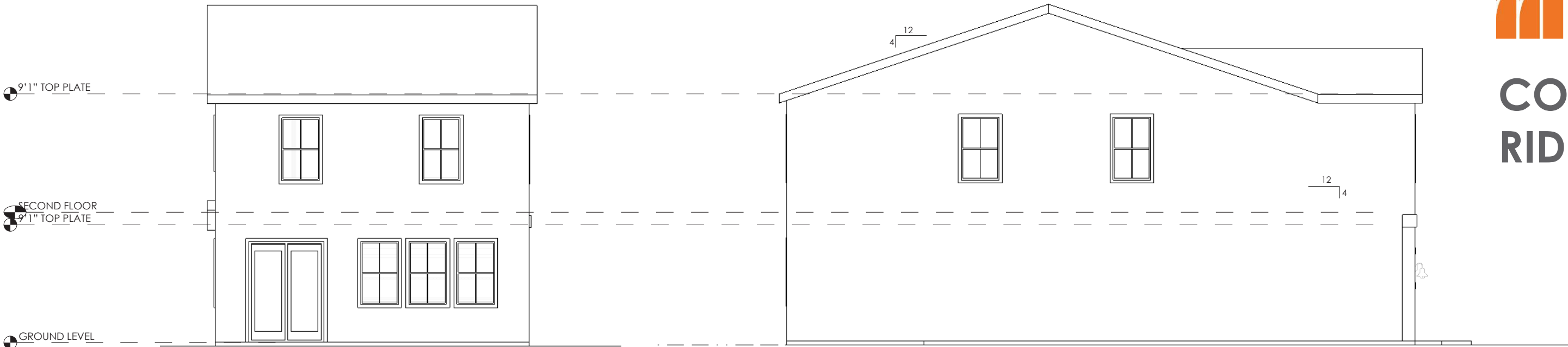
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

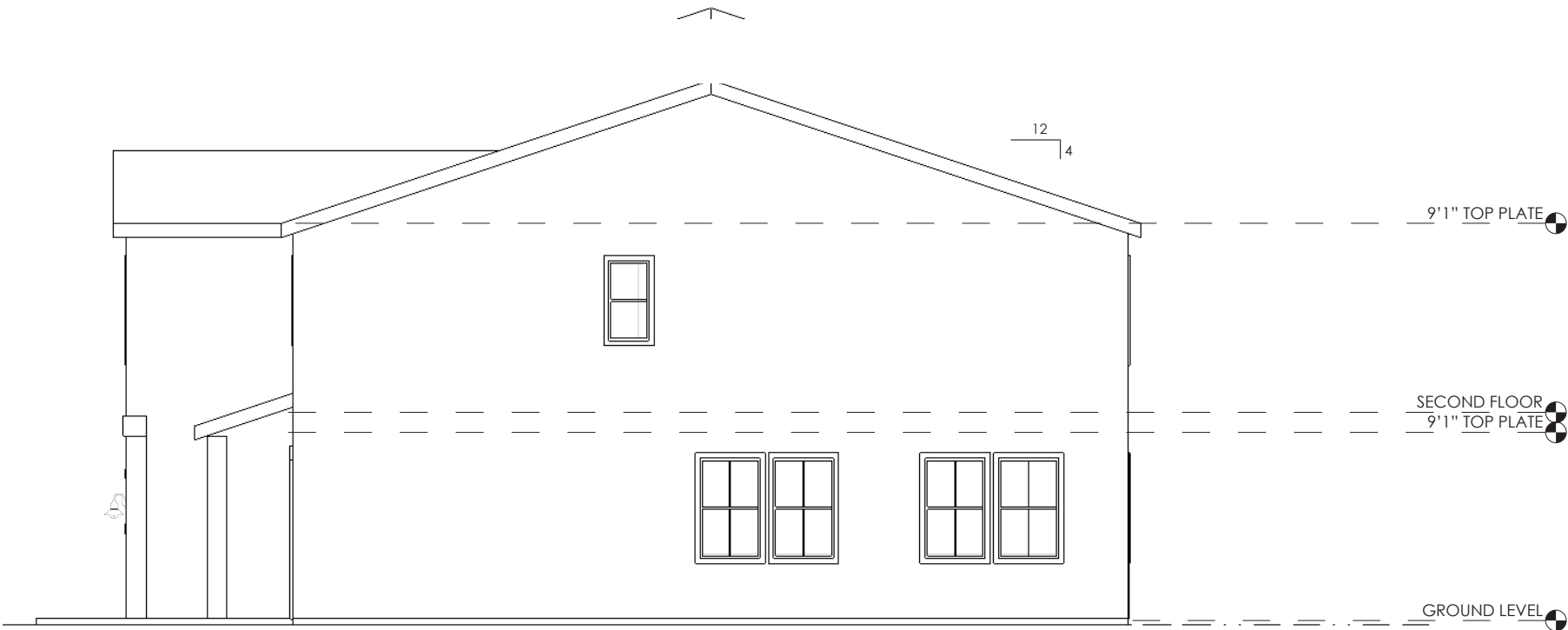
ELEVATIONS
PLAN 1





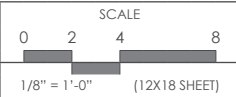
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

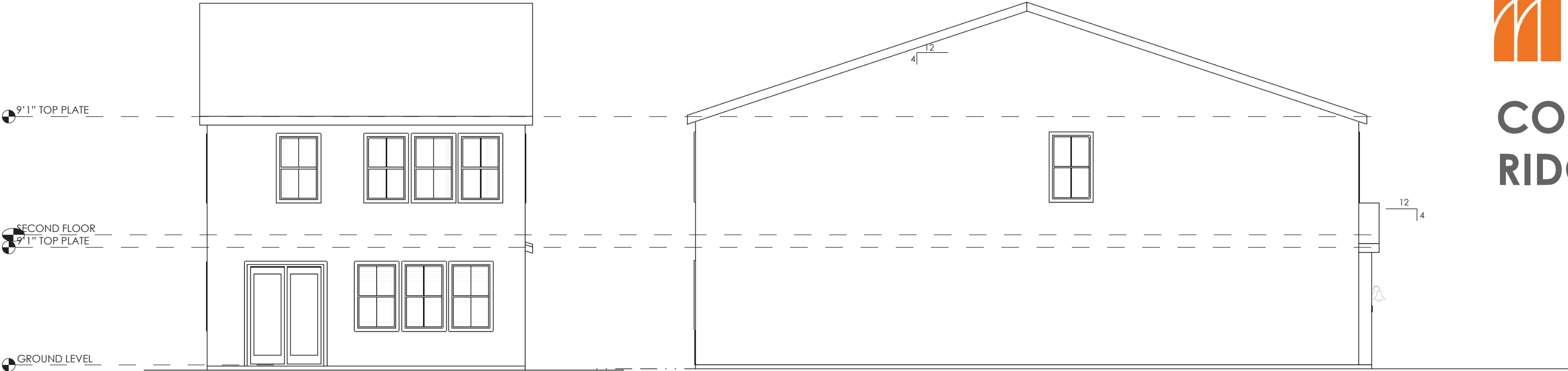
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

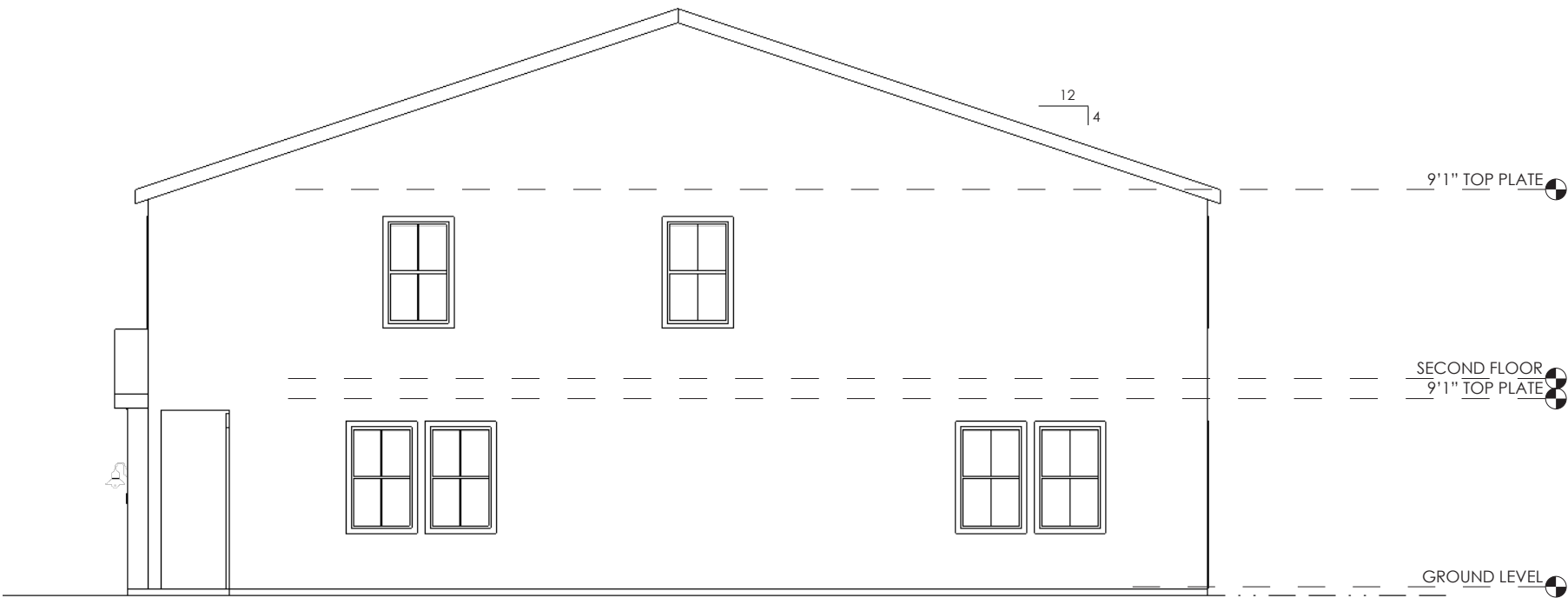
ELEVATIONS
PLAN 2





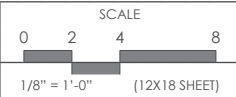
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

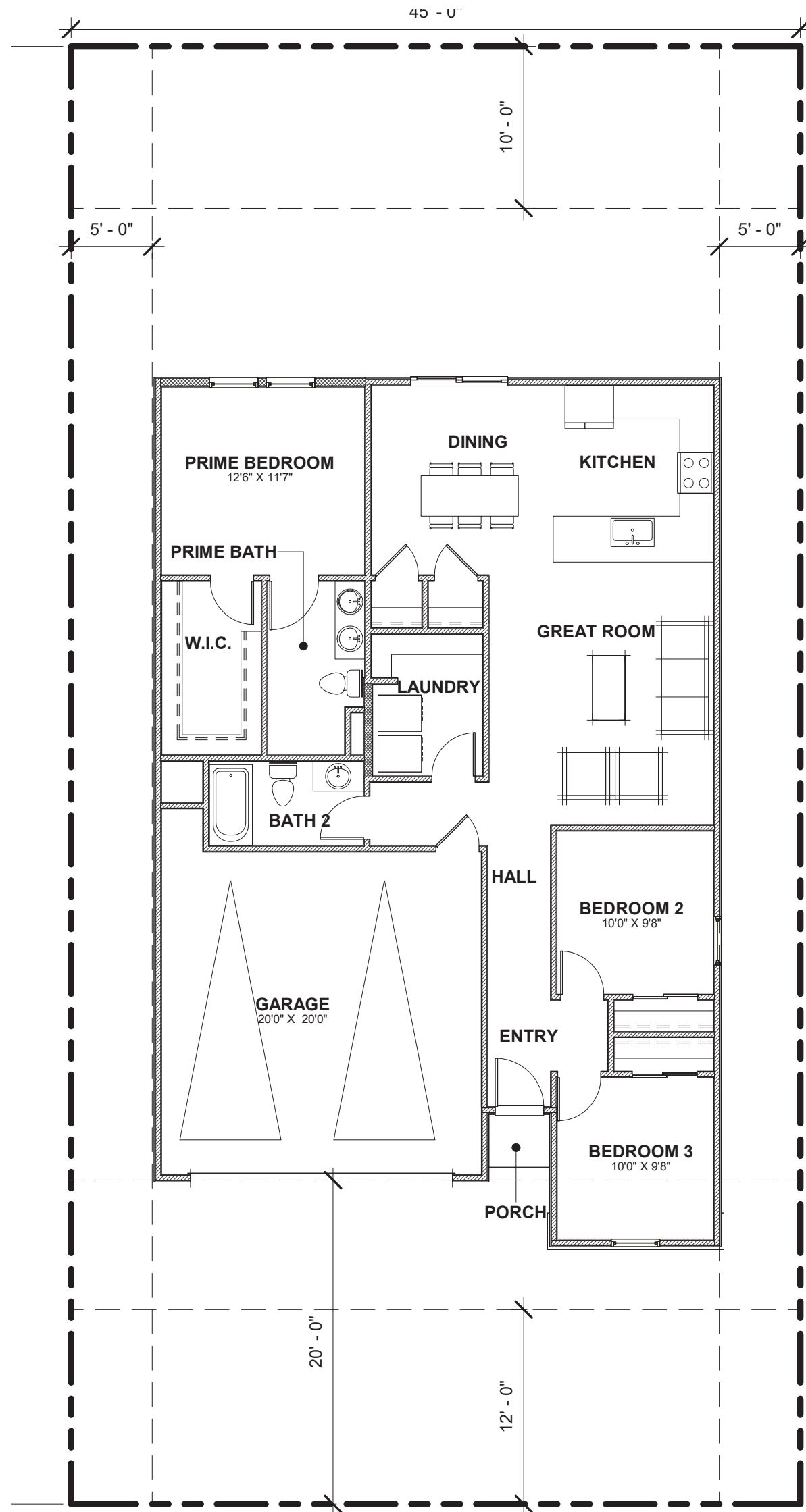
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

ELEVATIONS
PLAN 3





LENNAR®

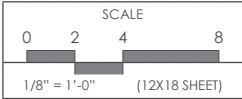


COPPER
RIDGE

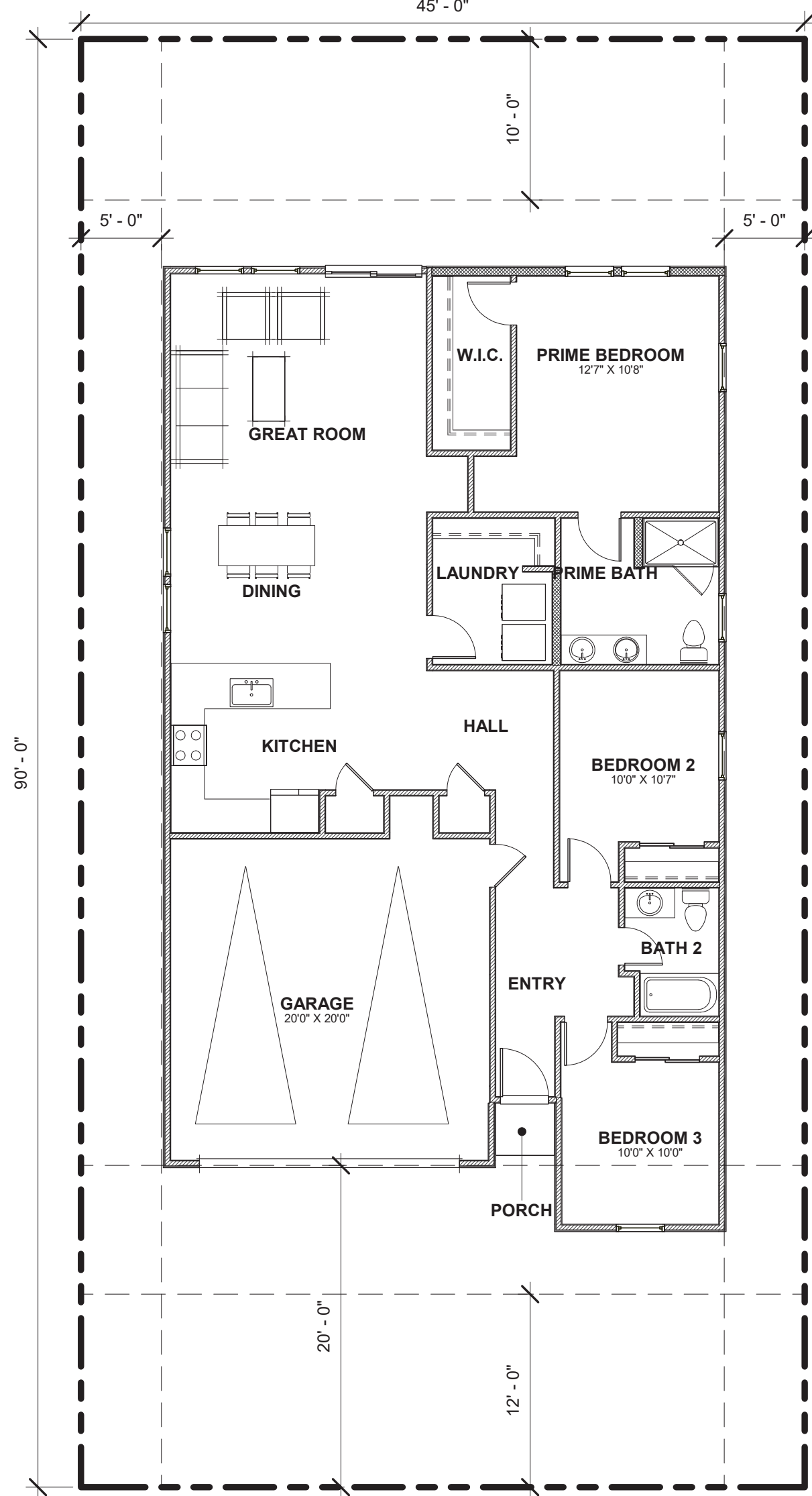
HOUSE PLAN 1

TOTAL AREA: 1,341SF

FLOOR PLAN
“TREASURES”



18



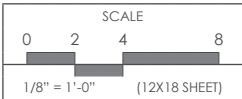
LENNAR®



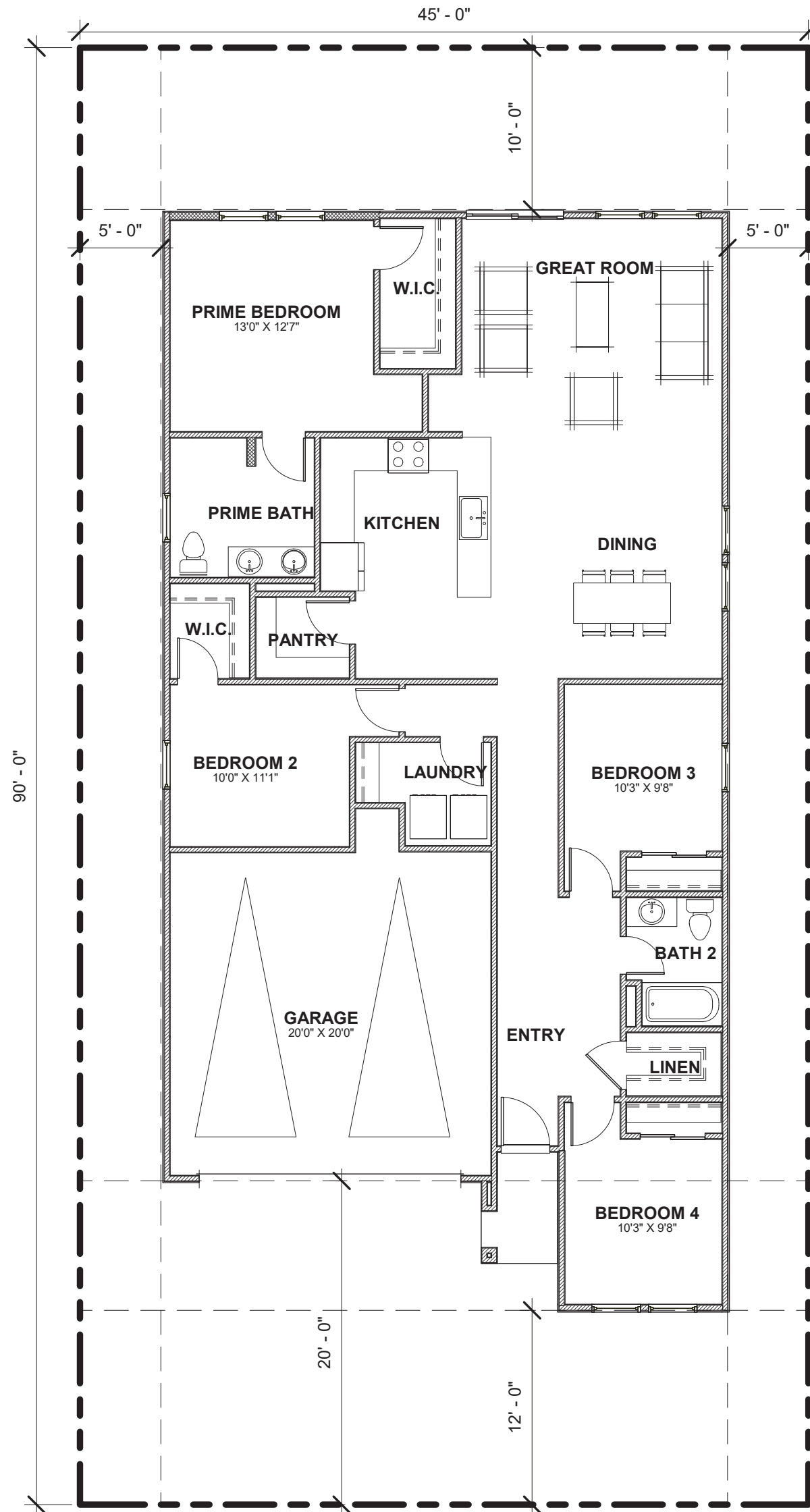
COPPER
RIDGE

HOUSE PLAN 2
TOTAL AREA: 1,564 SF

FLOOR PLAN
"TREASURES"

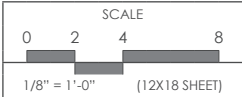


19



HOUSE PLAN 3
TOTAL AREA: 1,755 SF

FLOOR PLAN
“TREASURES”



COPPER
RIDGE



HOUSE PLAN 1
TOTAL AREA: 1,341SF

HOUSE PLAN 2
TOTAL AREA: 1,564 SF

HOUSE PLAN 3
TOTAL AREA: 1,755 SF

ELEVATIONS
“TRADITIONAL”

COPPER
RIDGE



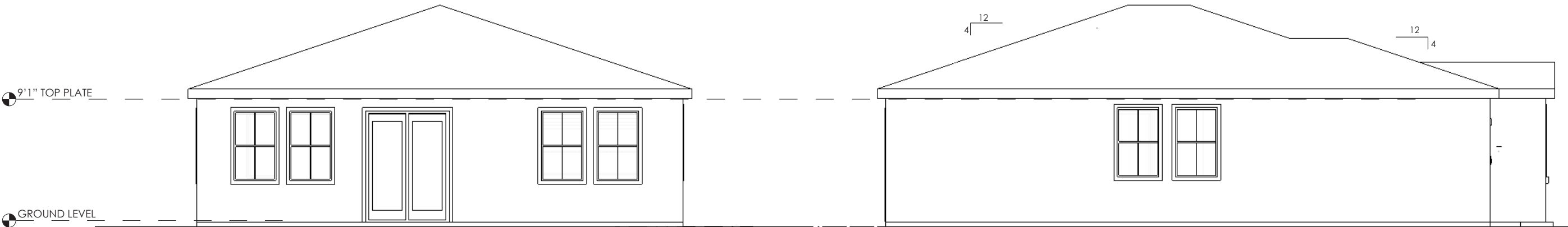
HOUSE PLAN 1
TOTAL AREA: 1,341SF

HOUSE PLAN 2
TOTAL AREA: 1,564 SF

HOUSE PLAN 3
TOTAL AREA: 1,755 SF

ELEVATIONS
“FARMHOUSE”

#3151-02-HS24
10 APRIL 2024



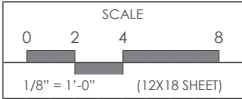
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

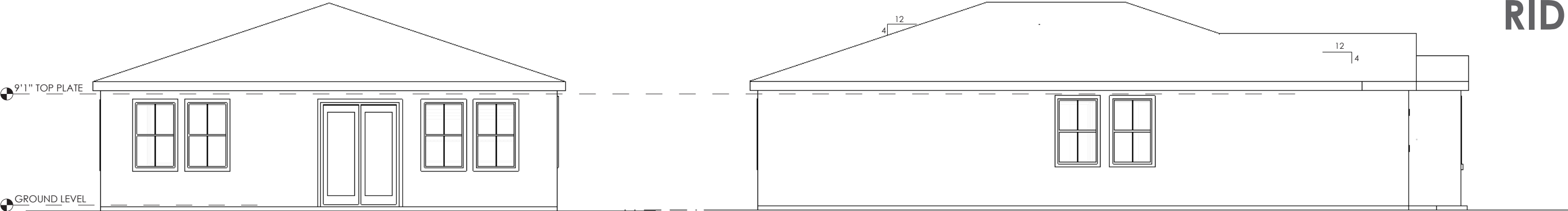


3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

ELEVATIONS
PLAN 1

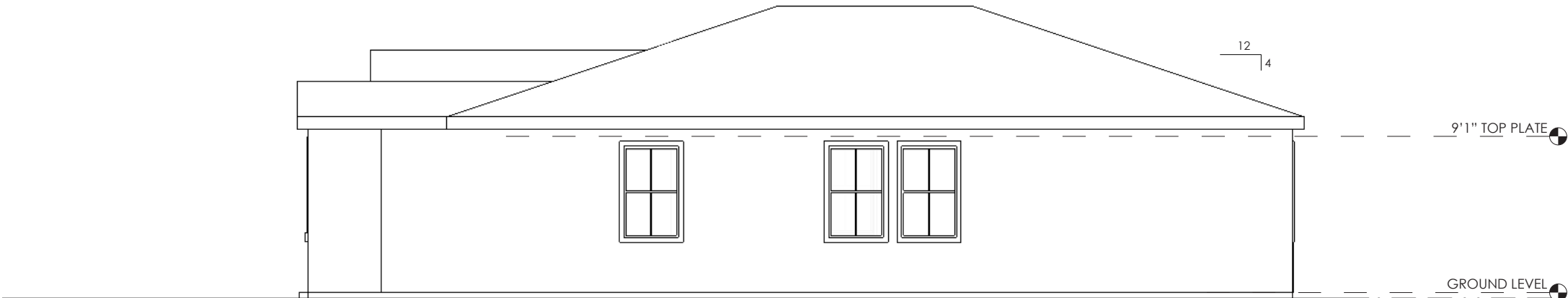


COPPER
RIDGE



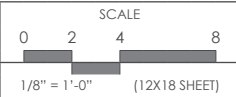
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

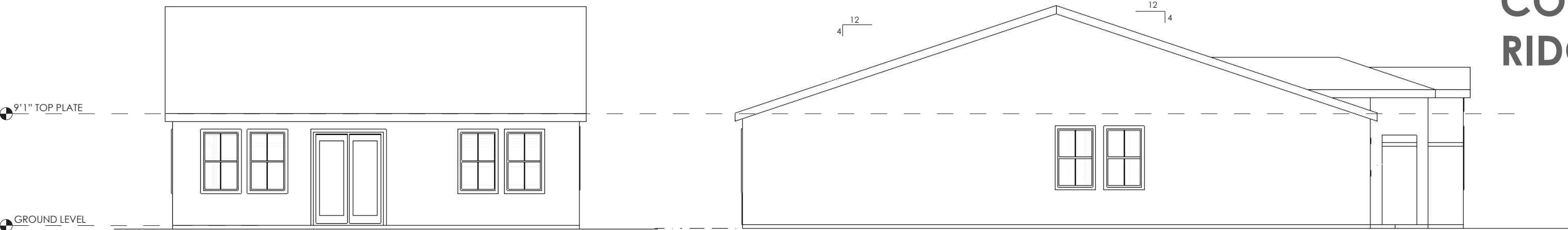
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

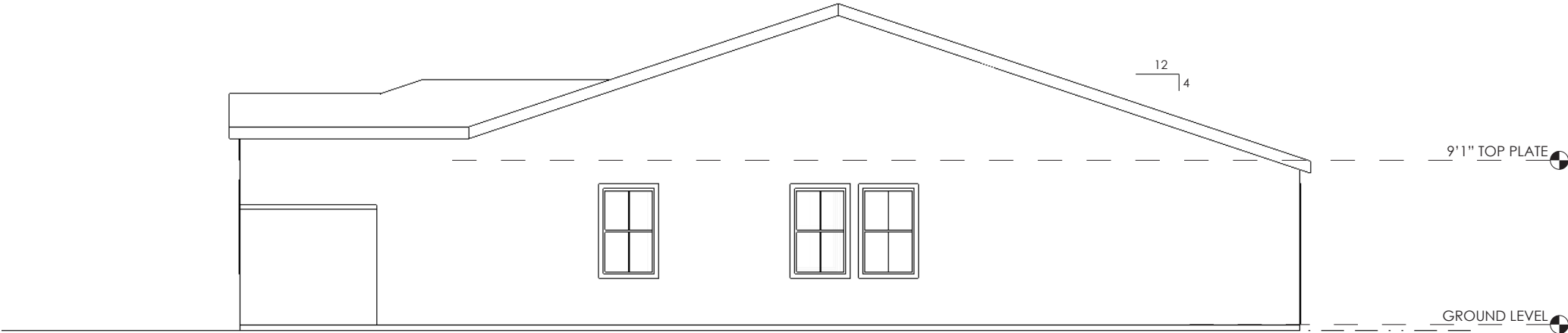
ELEVATIONS
PLAN 2





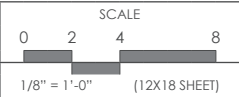
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

ELEVATIONS
PLAN 3





© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

A - STYLE



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

B - STYLE

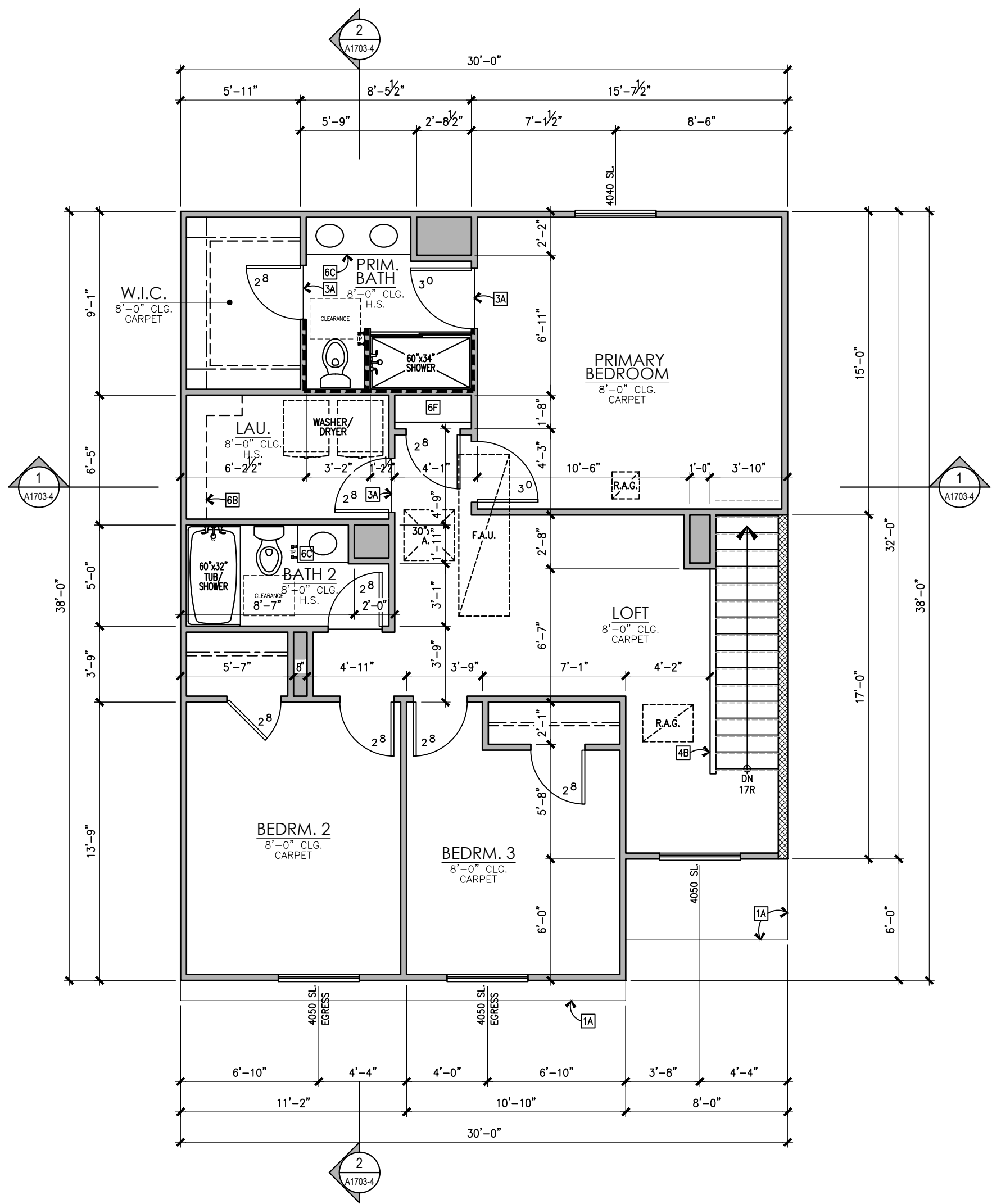


© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

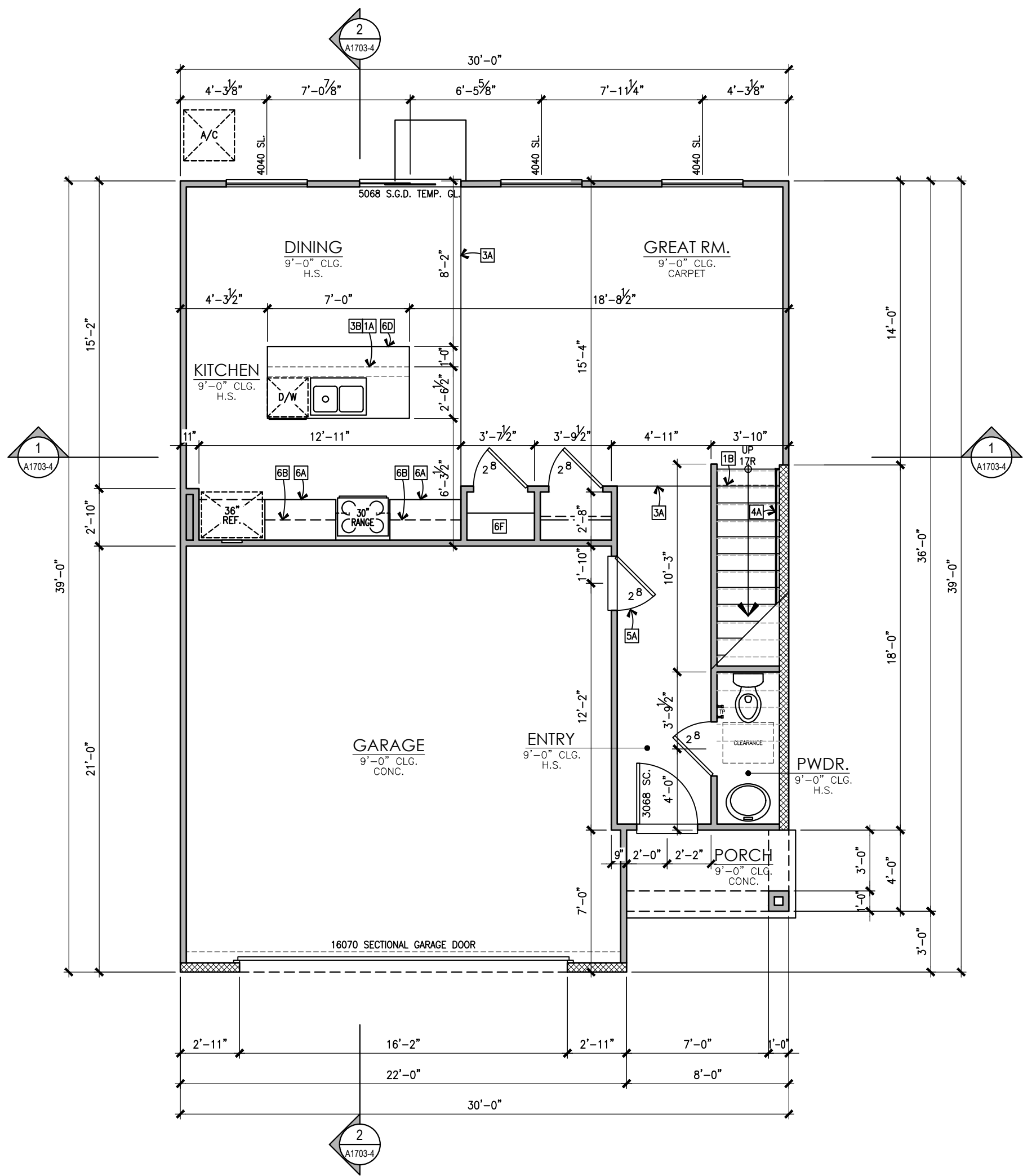
C - STYLE

L017 JOYCE (1703)
FRONT ELEVATIONS

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



SECOND FLOOR



FIRST FLOOR

PLAN 1
AREA TABULATION

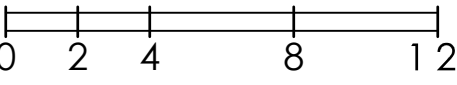
CONDITIONED SPACE	
FIRST FLOOR AREA	653 SQ. FT.
SECOND FLOOR AREA	1,050 SQ. FT.
TOTAL DWELLING	1,703 SQ. FT.
UNCONDITIONED SPACE	
GARAGE	461 SQ. FT.
PORCH "A"	32 SQ. FT.

L017 JOYCE (1703)
3 BEDROOM, 2.5 BATH, LOFT
FLOOR PLAN

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



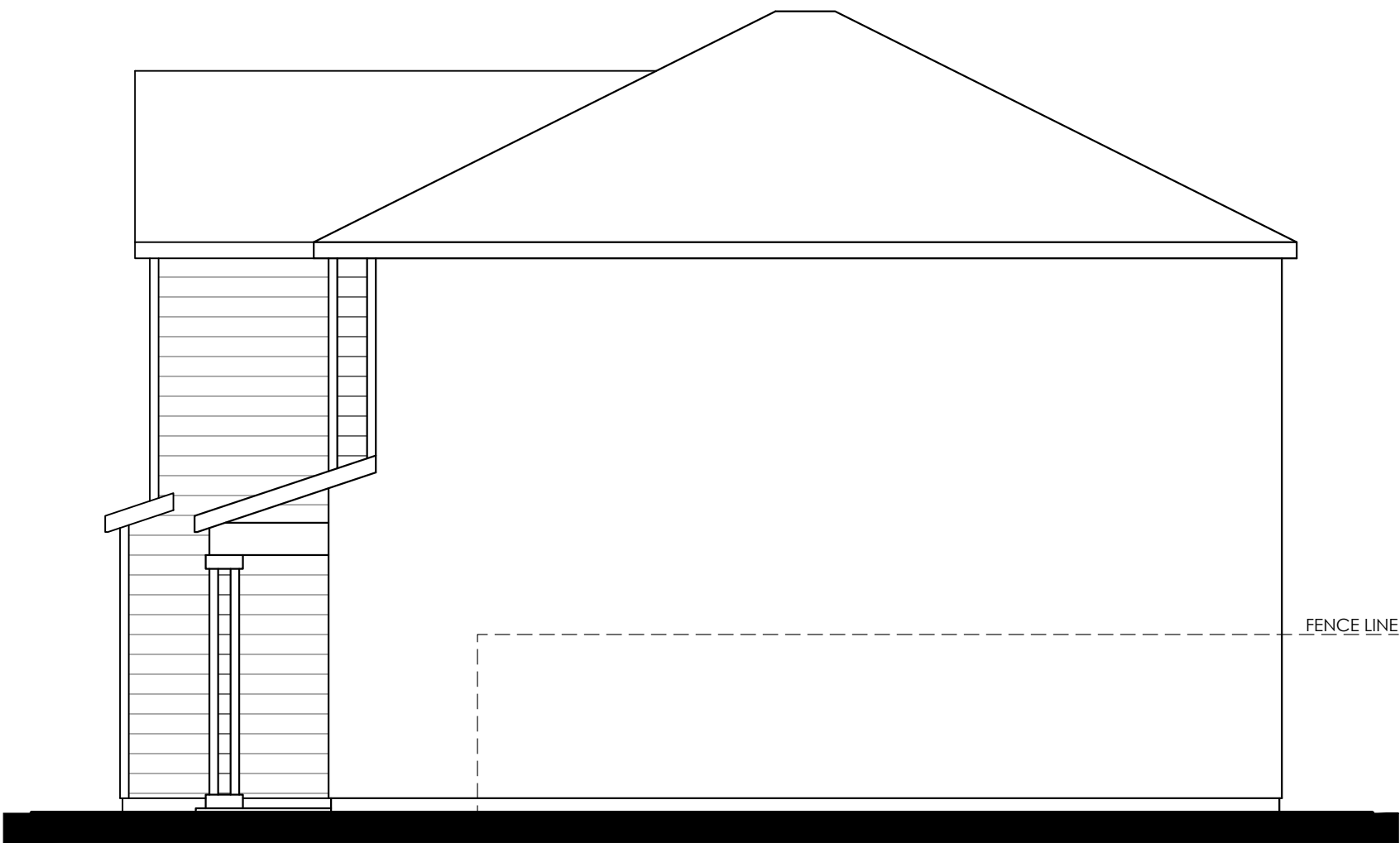
Kevin L. Crook
Architect
Inc
PLANNING + ARCHITECTURE
© Copyright: All Rights Reserved.
Plot Date: Oct 02, 2024
Drawn By: Name Page 201 of 819





© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

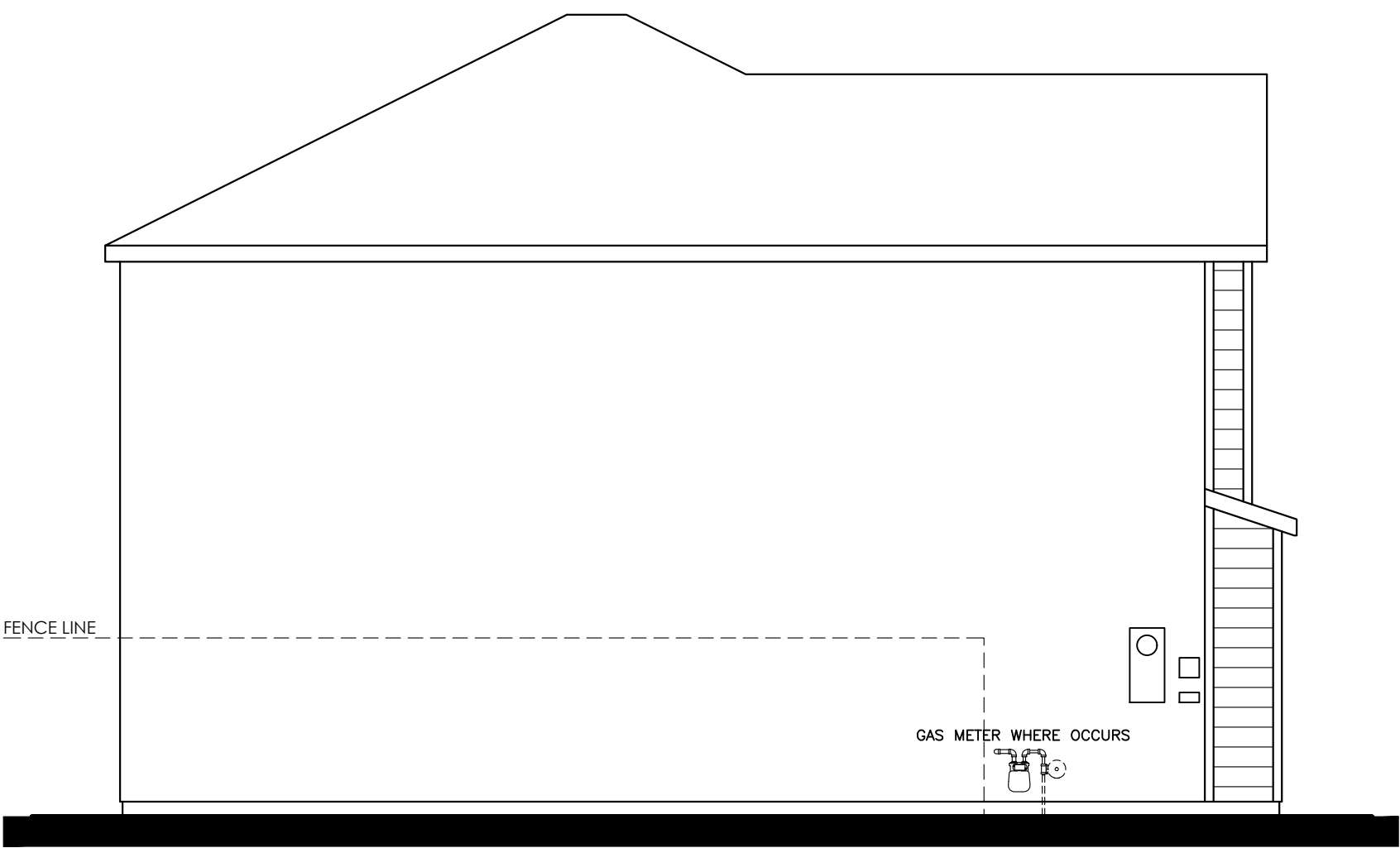
FRONT



RIGHT



REAR



LEFT

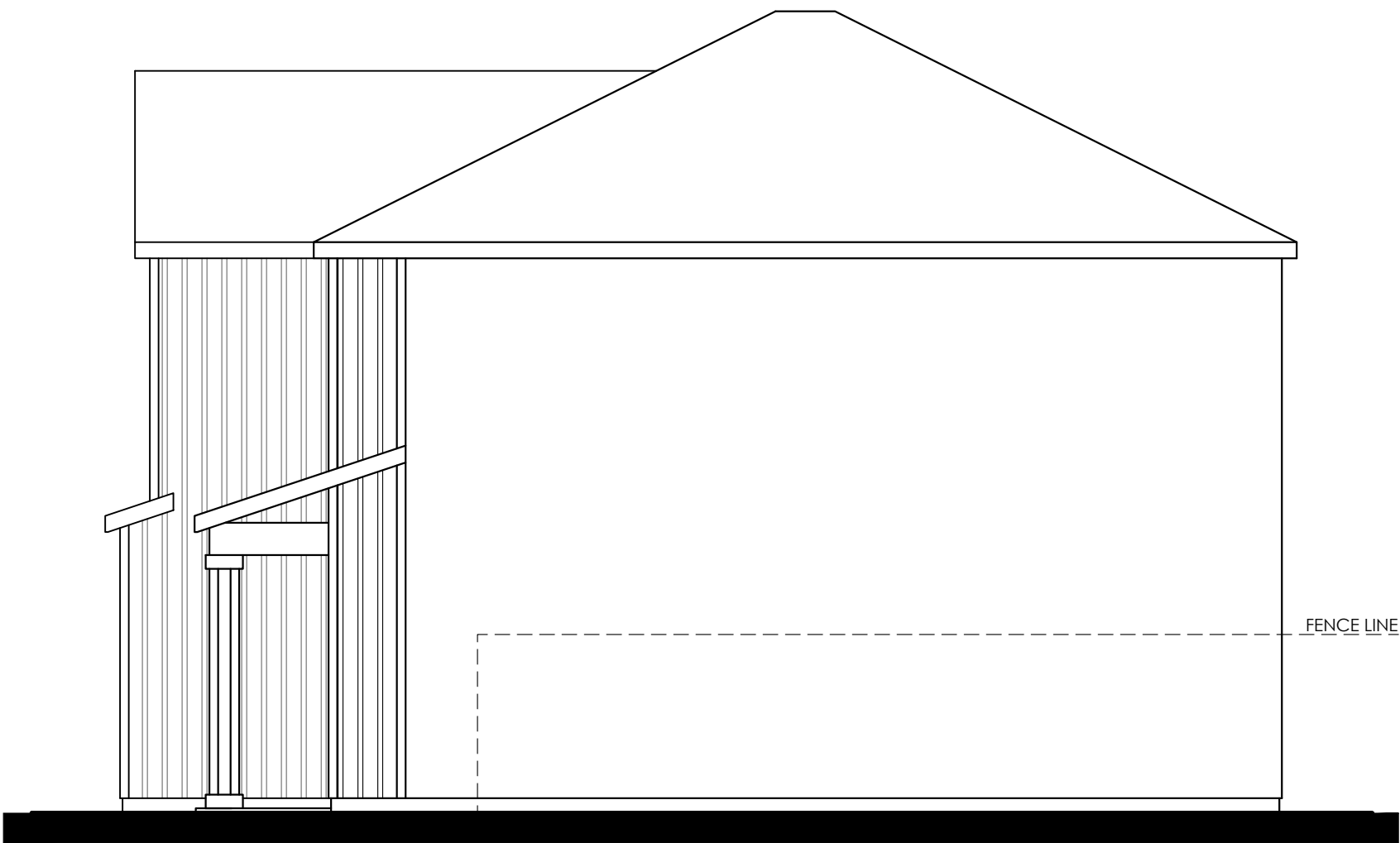
L017 JOYCE (1703)
"A" -STYLE- ELEVATIONS

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

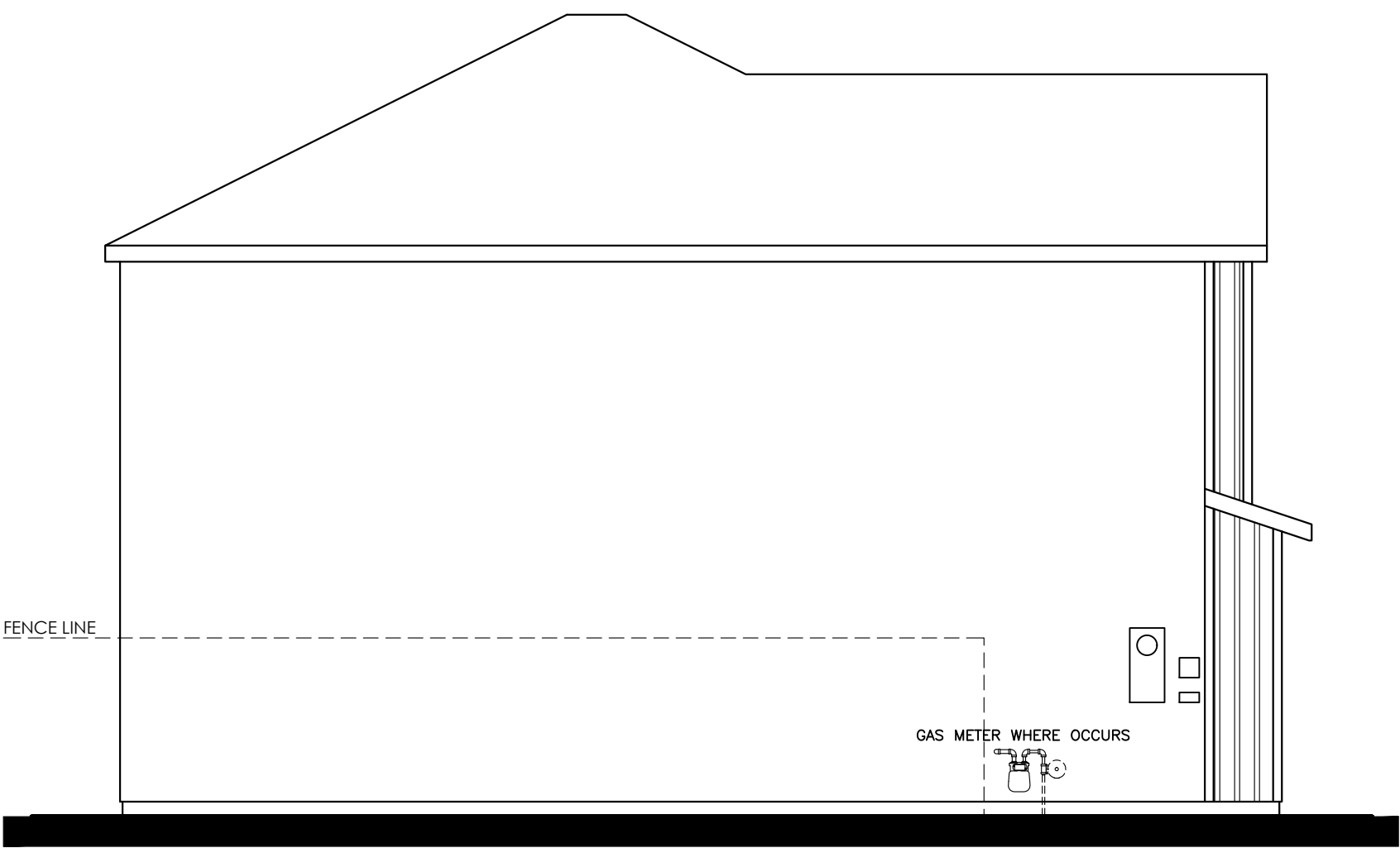
FRONT



RIGHT



REAR



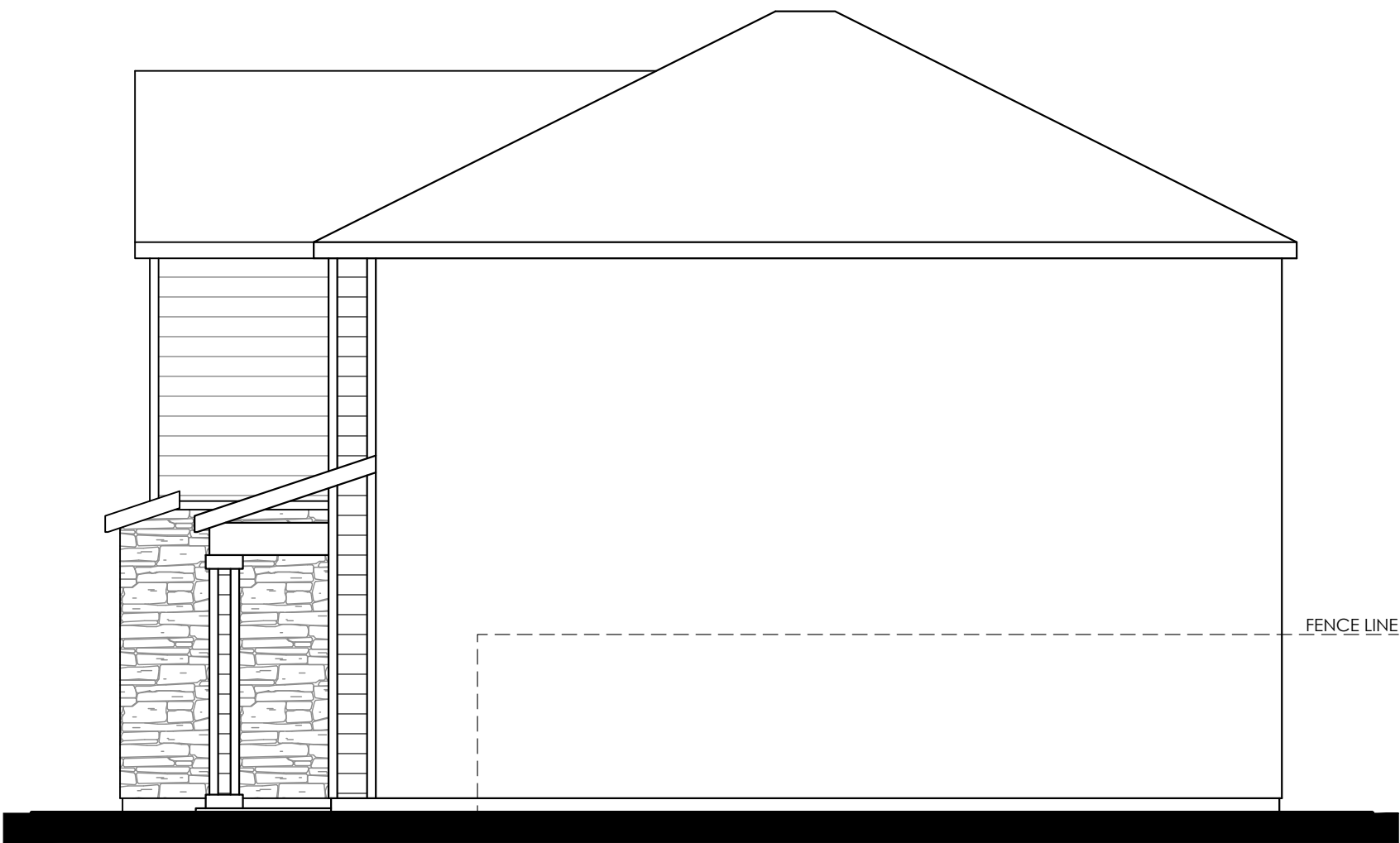
LEFT

L017 JOYCE (1703)
"B" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

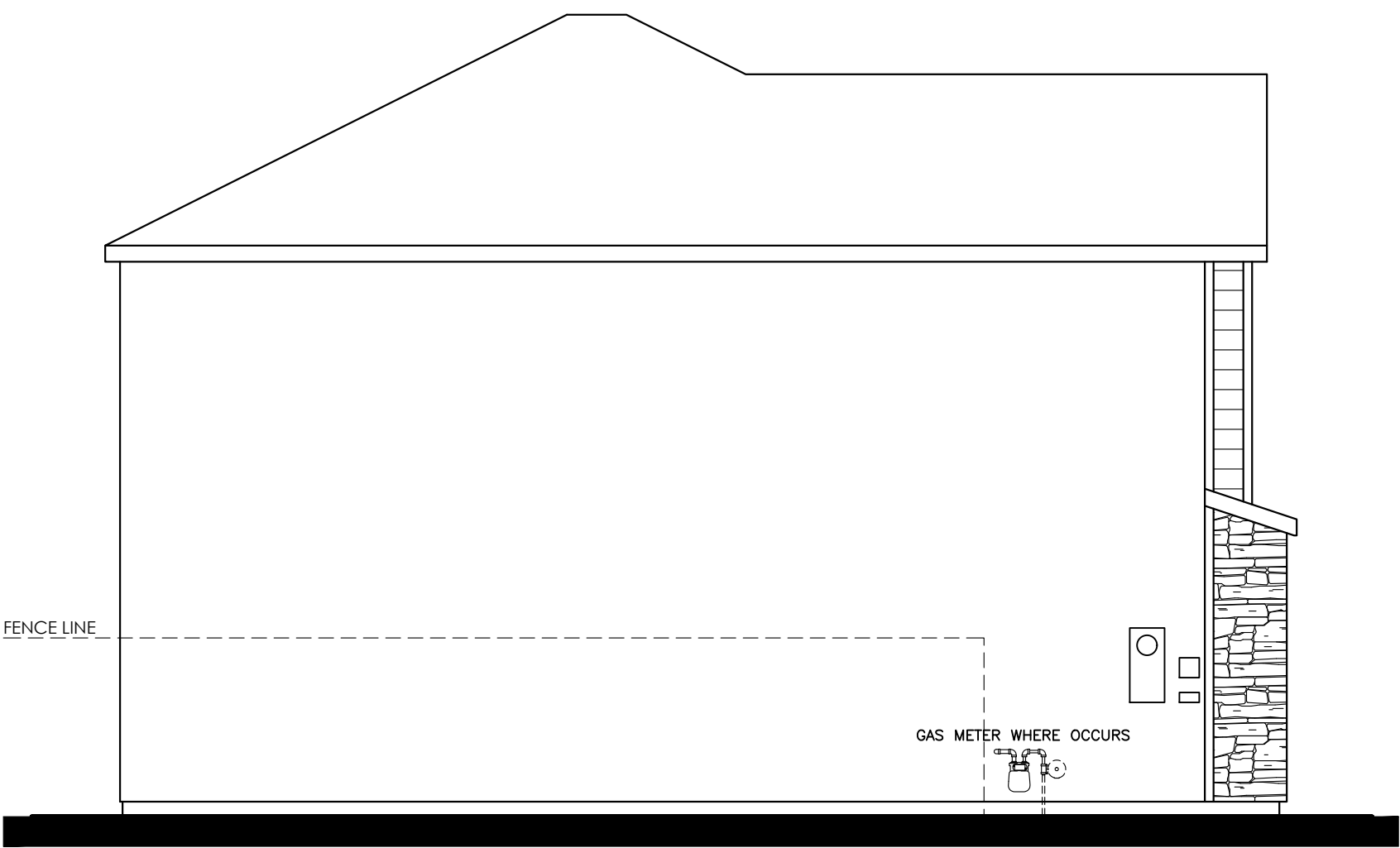
FRONT



RIGHT

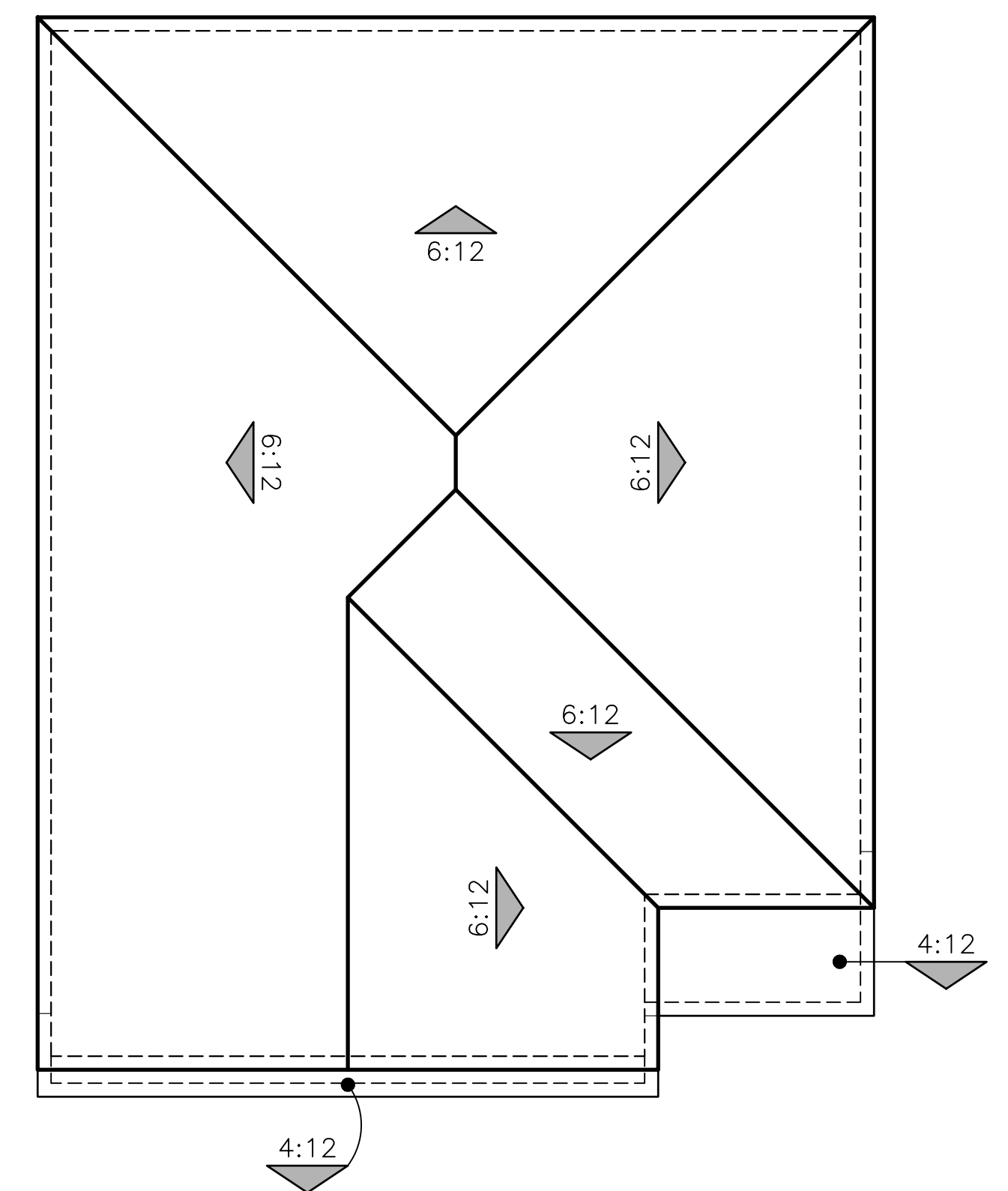
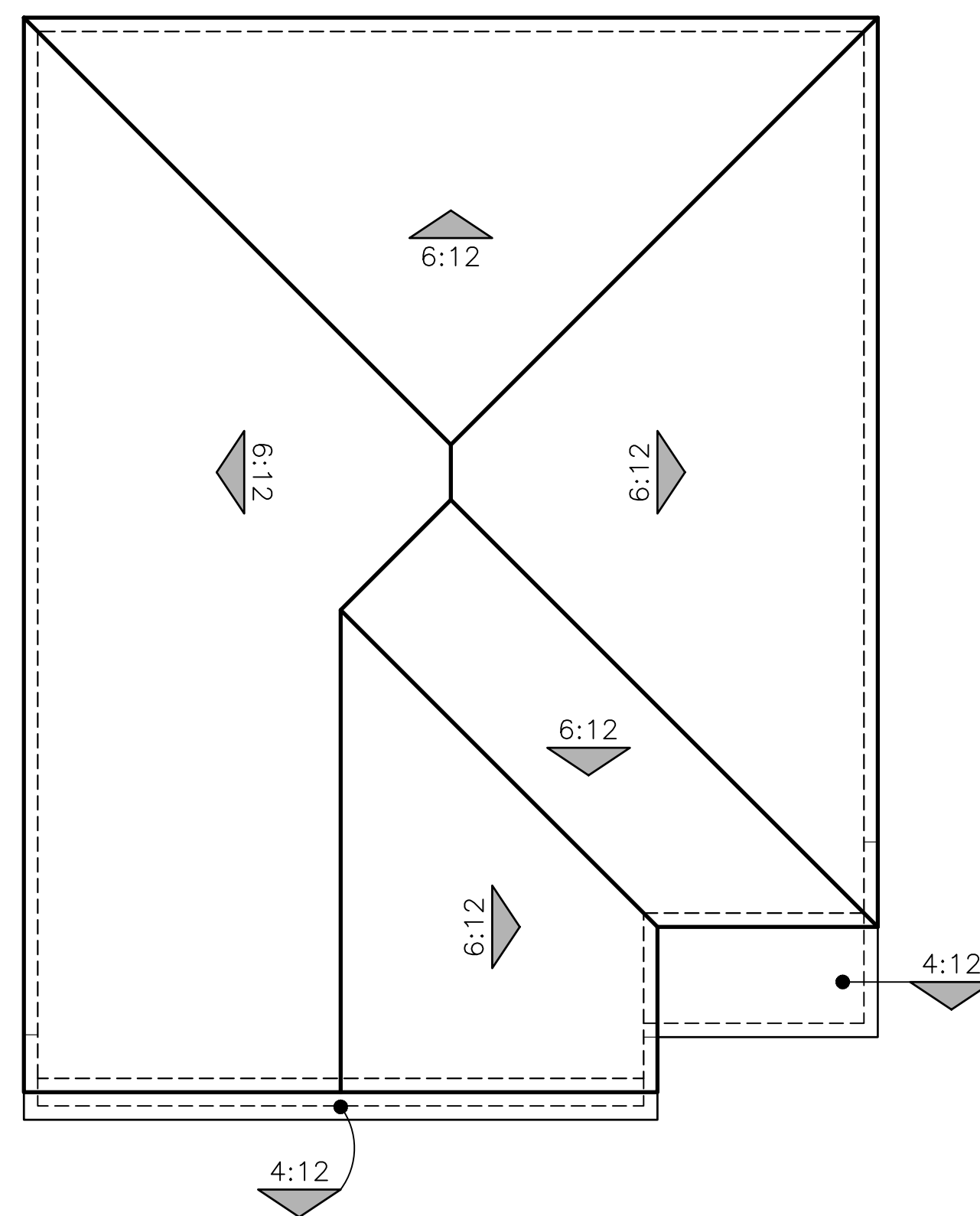
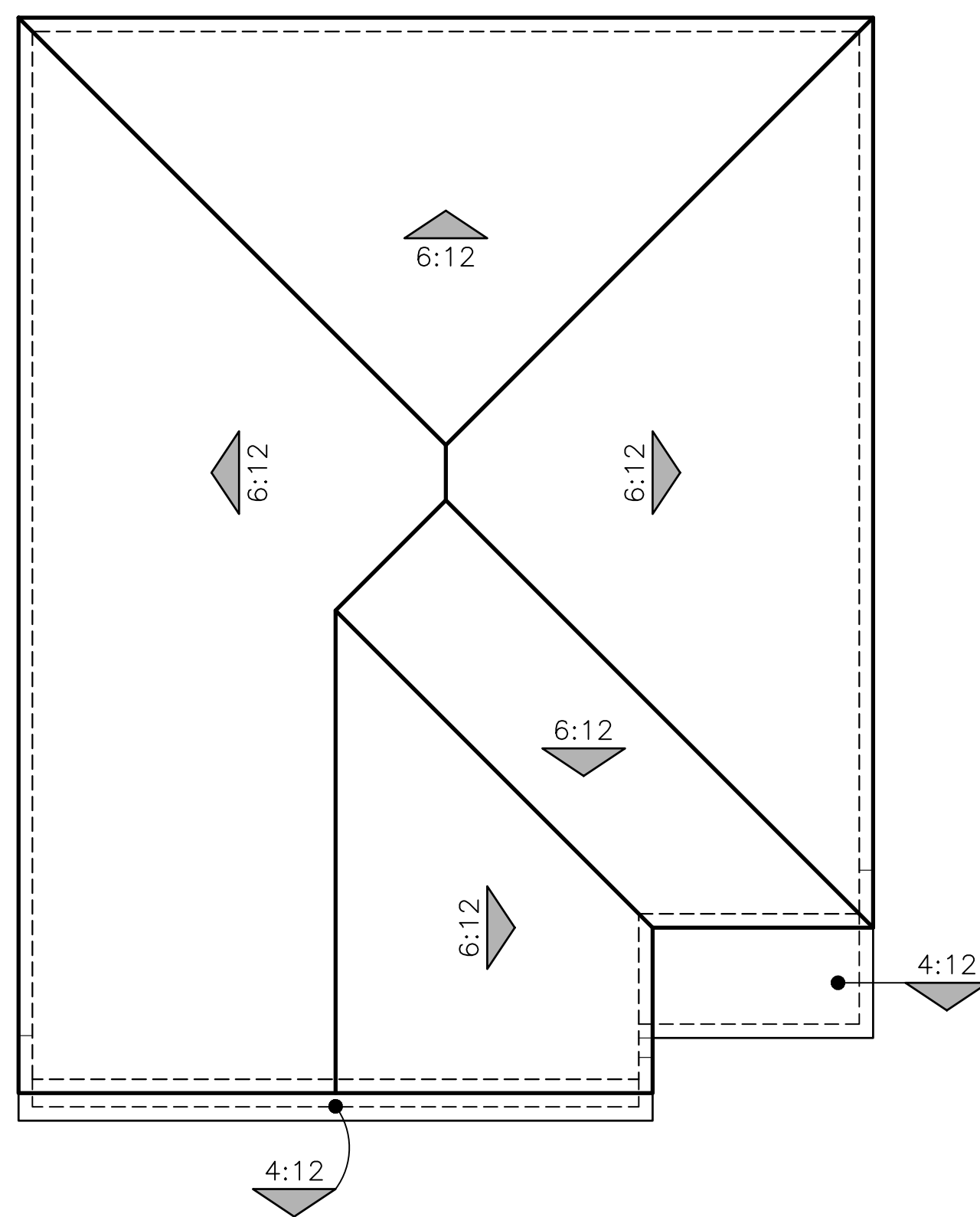


REAR



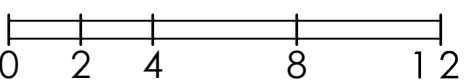
LEFT

L017 JOYCE (1703)
"C" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



L017 JOYCE (1703)
ROOF PLANS

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24





© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

A - STYLE



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

B - STYLE

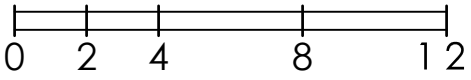


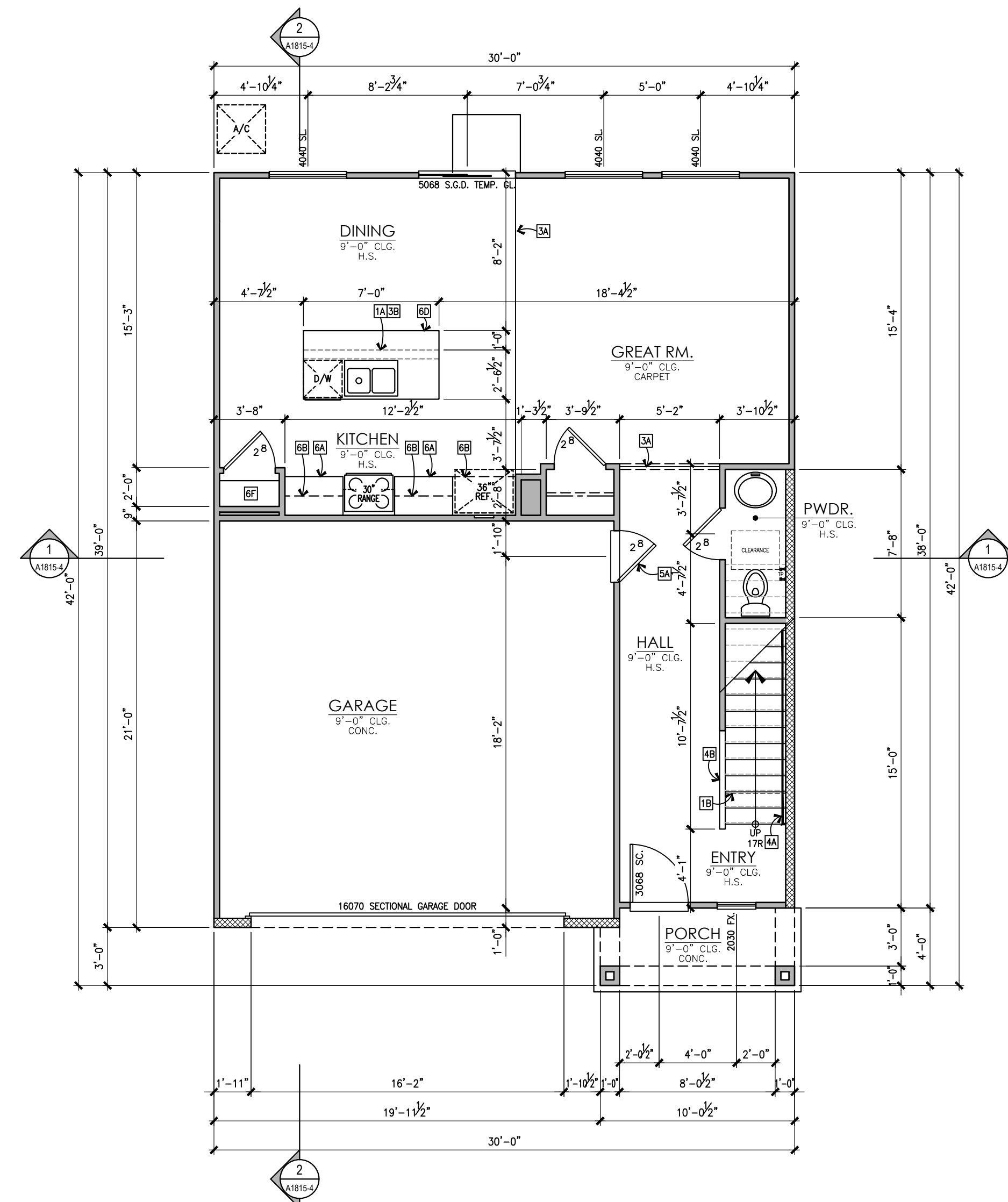
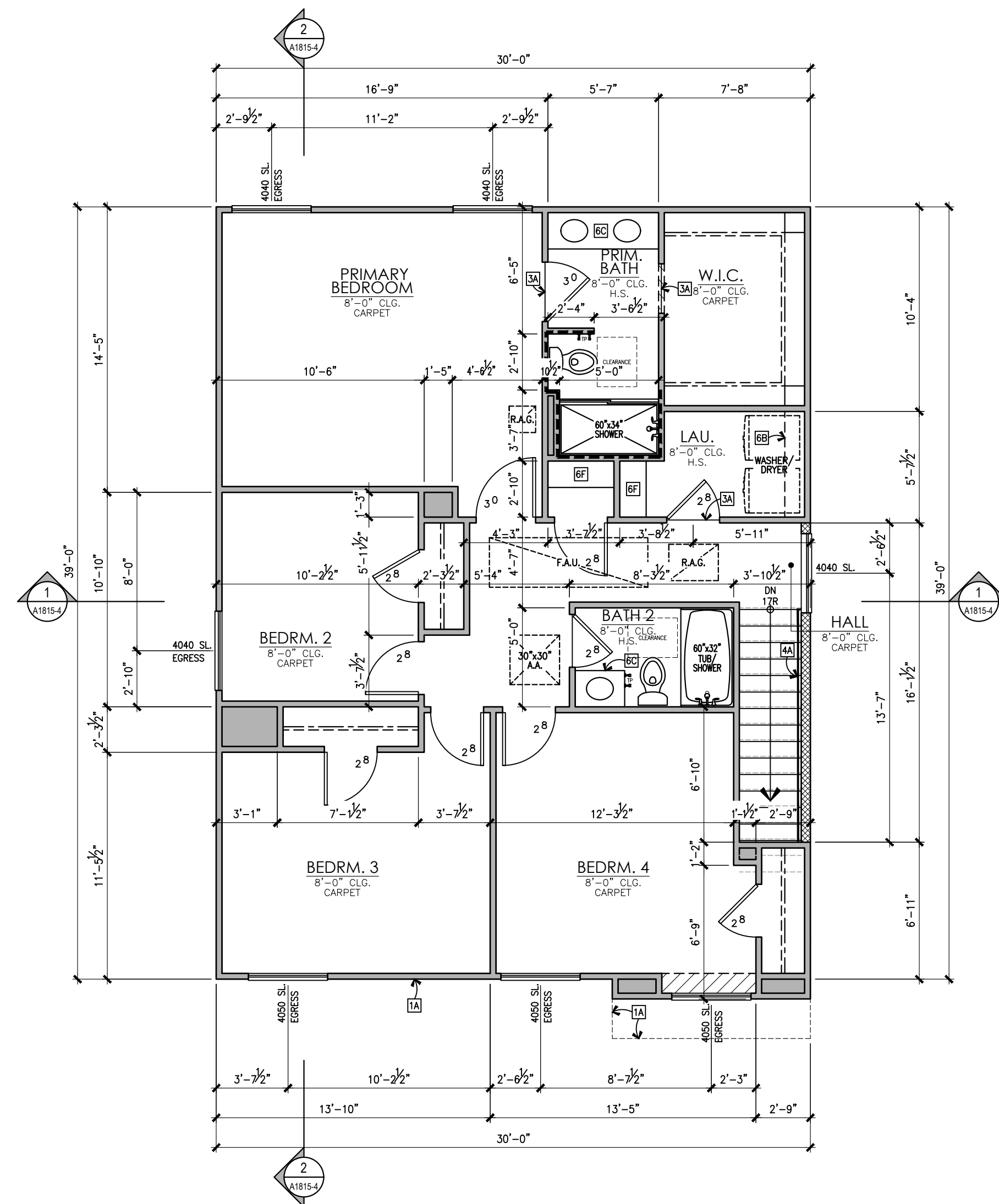
© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

C - STYLE

L016 VAIL (1855)
FRONT ELEVATIONS

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24





PLAN 2		
AREA TABULATION		
CONDITIONED SPACE		
FIRST FLOOR AREA	727	SQ. FT.
SECOND FLOOR AREA	1,128	SQ. FT.
TOTAL DWELLING	1,855	SQ. FT.
UNCONDITIONED SPACE		
GARAGE	434	SQ. FT.
PORCH "A"	39	SQ. FT.

L016 VAIL (1855)
4 BEDROOM, 2.5 BATH
FLOOR PLAN

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24

LENNAR

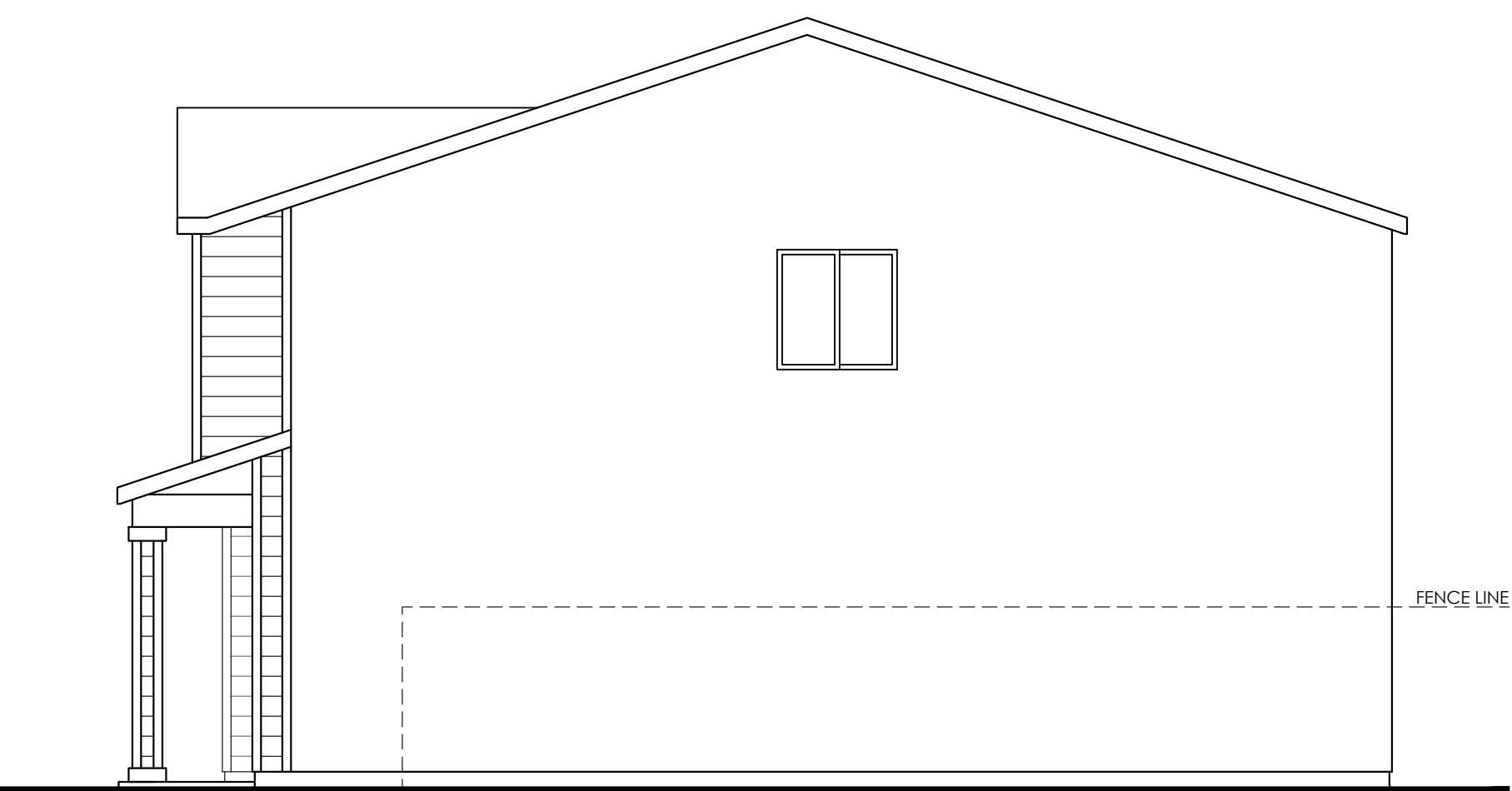
Kevin L. Crook
Architect
Inc

PLANNING + ARCHITECTURE v. 3.0
© Copyright: All Rights Reserved
Plot Dated: Oct 02, 2024
Drawn By: Name Page 207 of 81

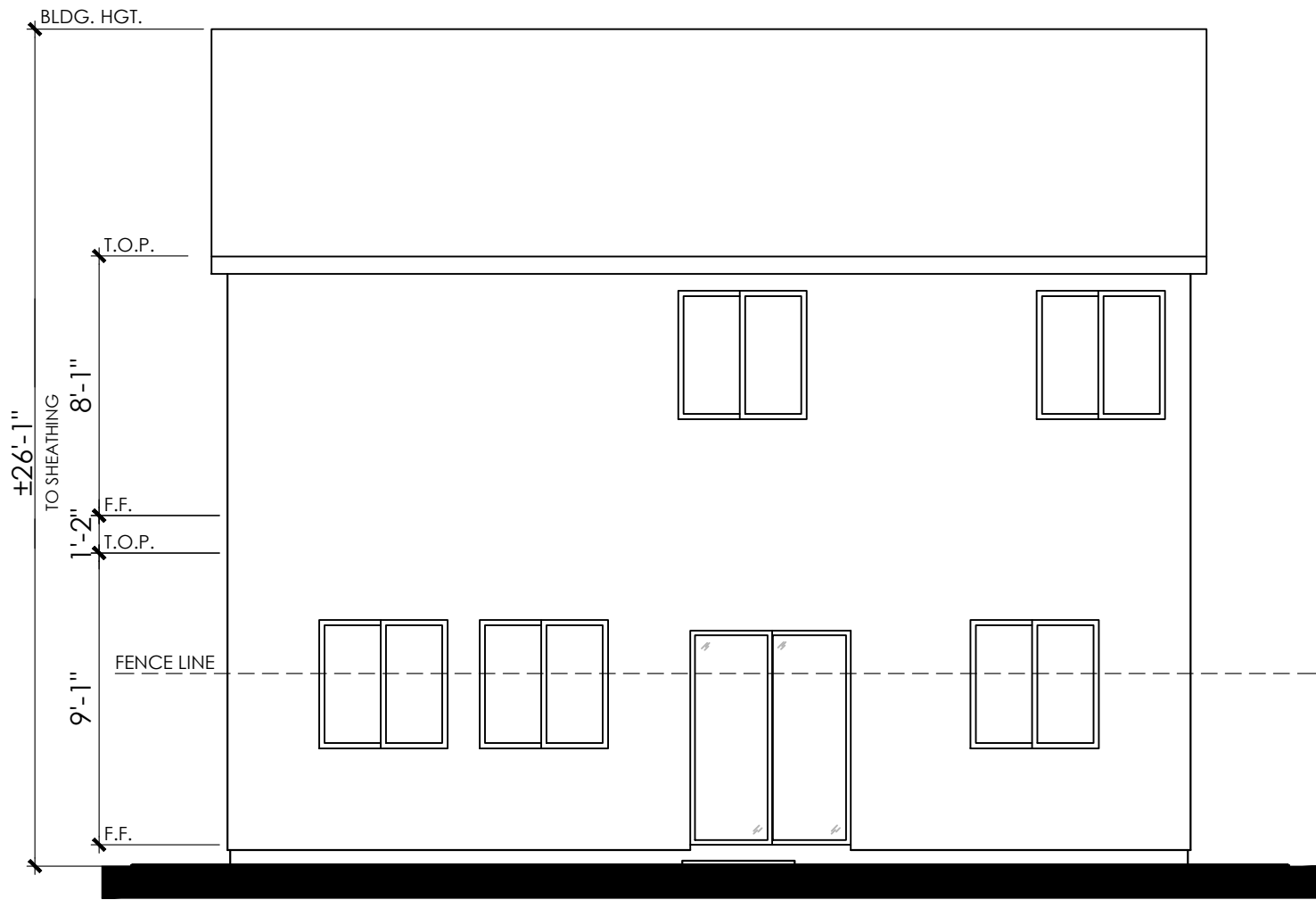


© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

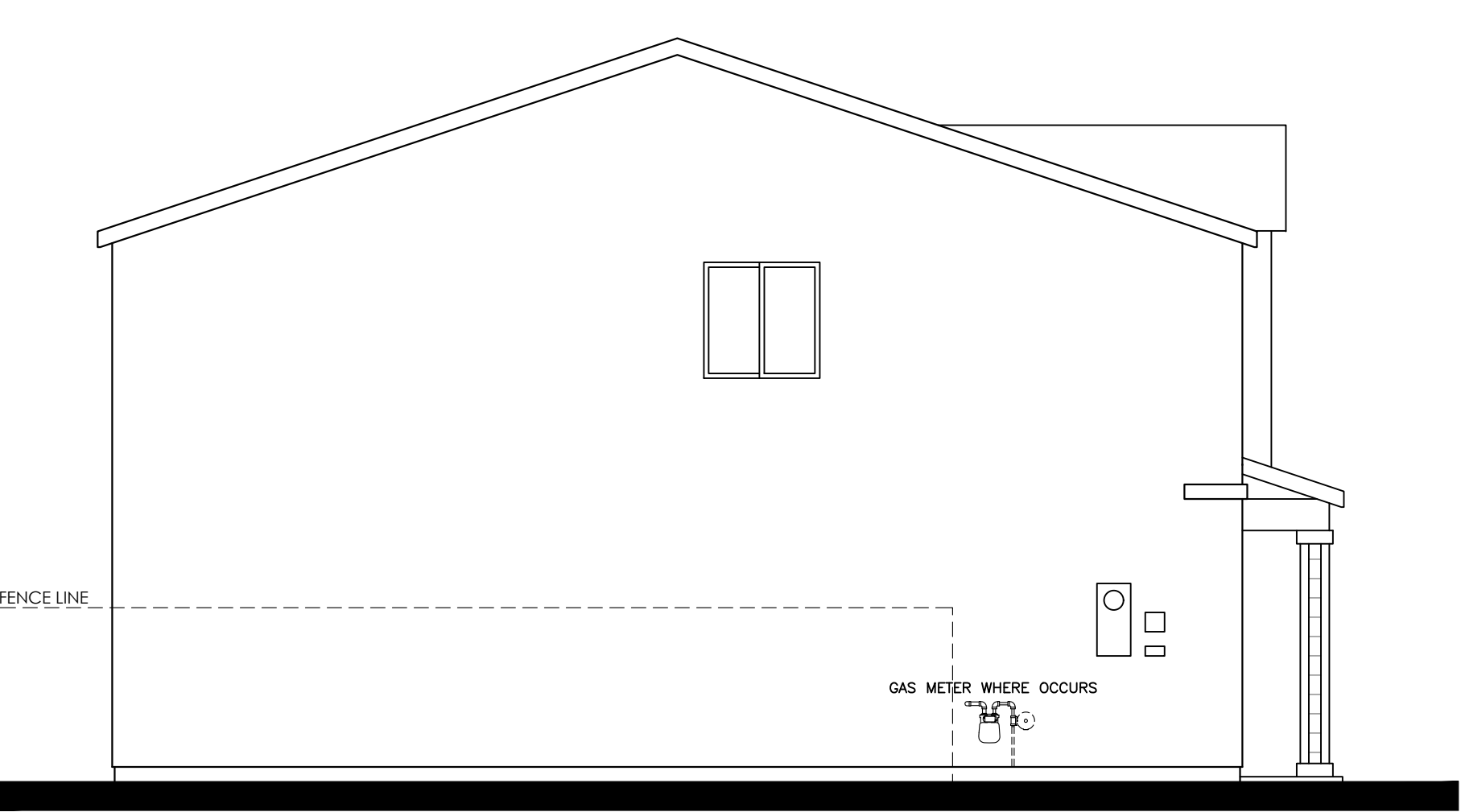
FRONT



RIGHT



REAR



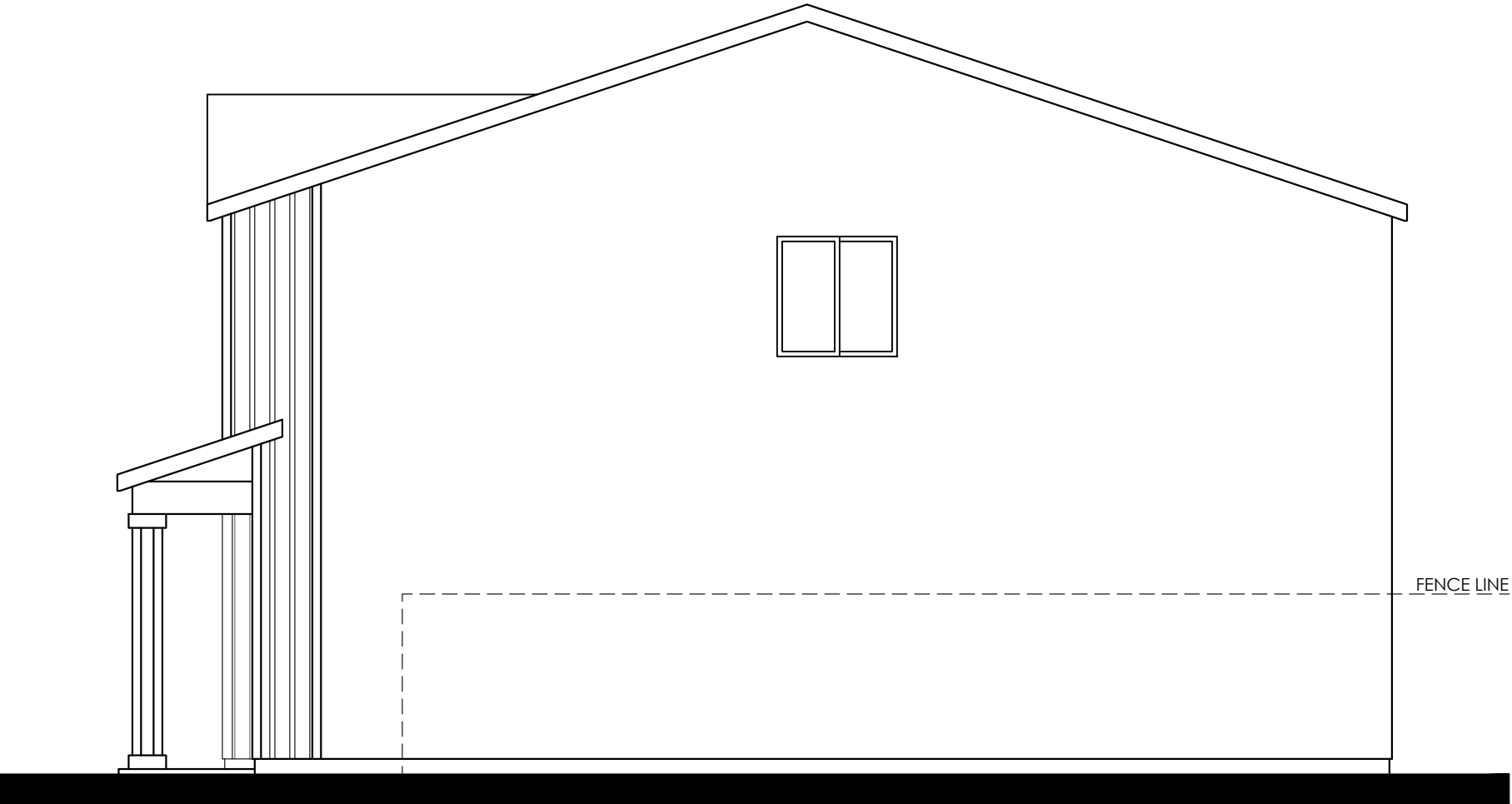
LEFT

L016 VAIL (1855)
"A" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24

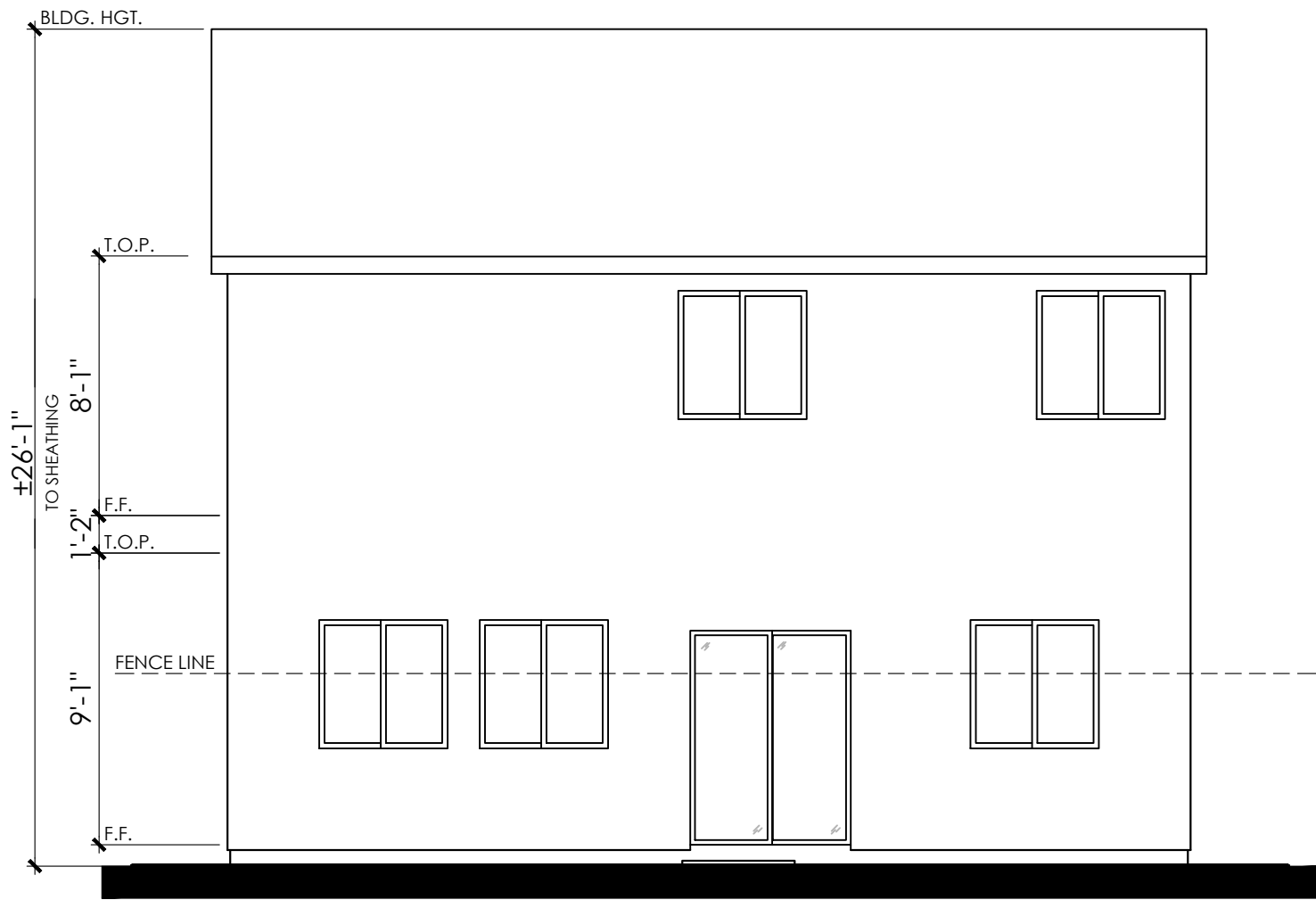


© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

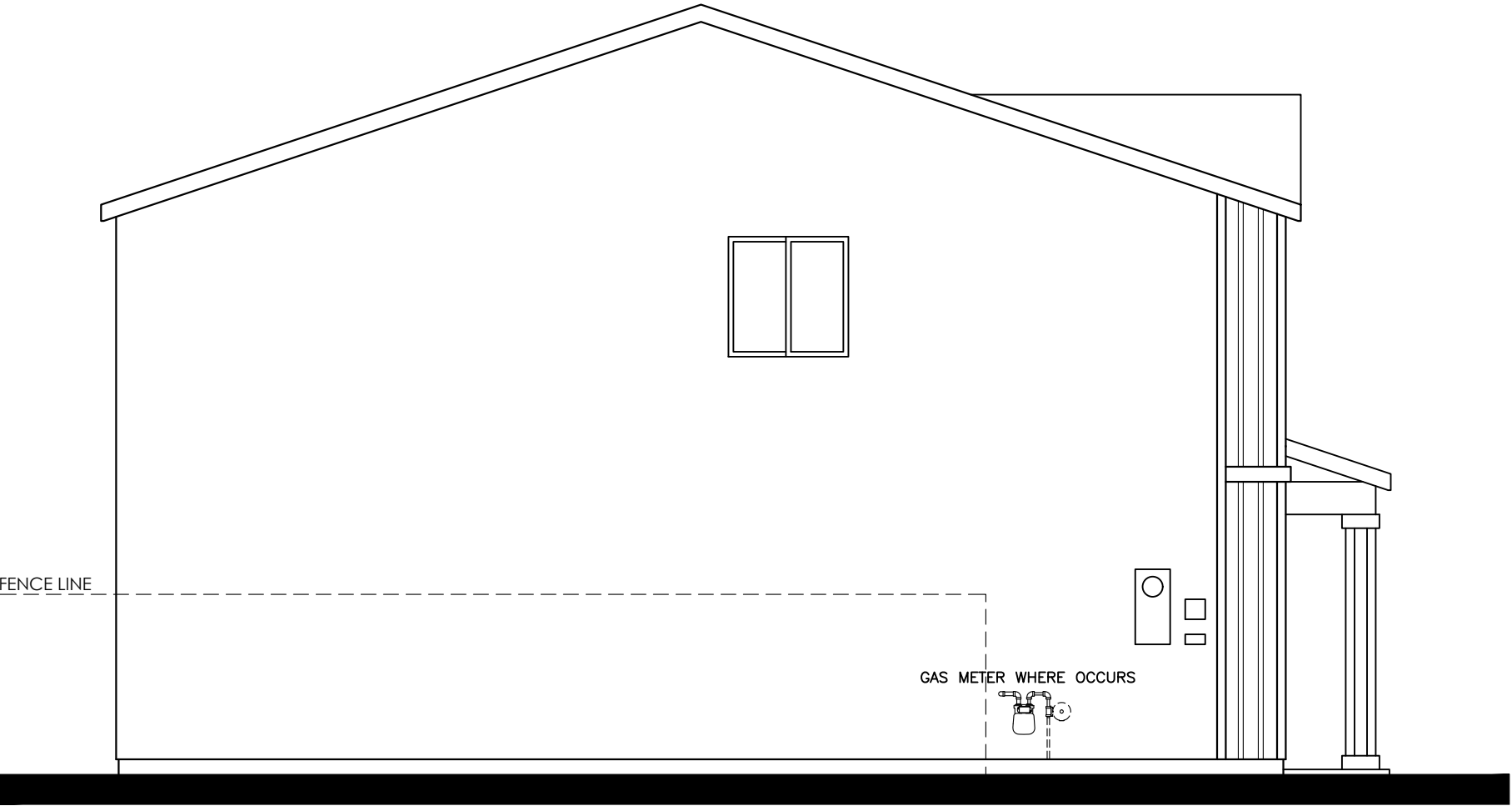
FRONT



RIGHT



REAR



LEFT

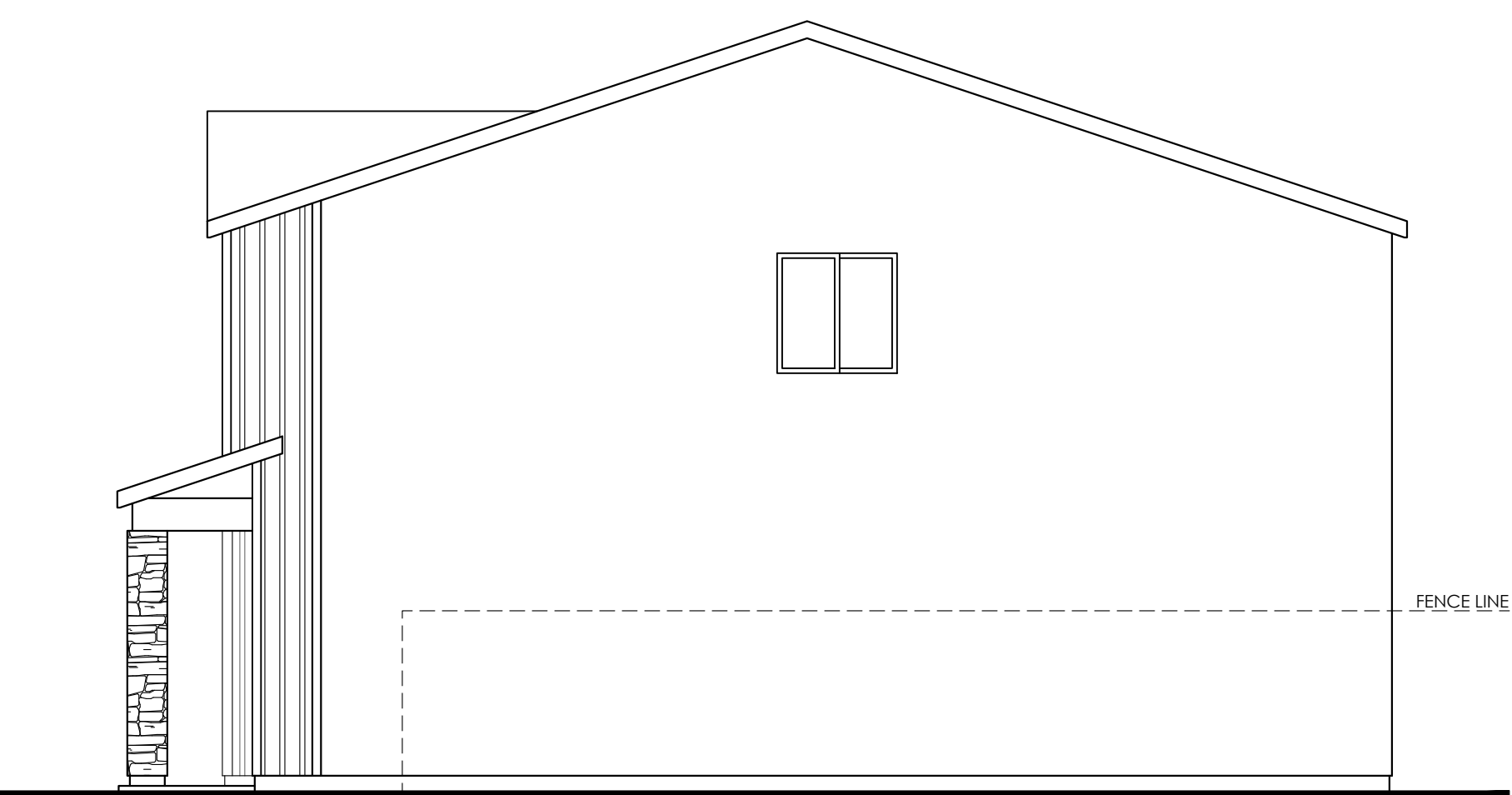
L016 VAIL (1855)
"B" -STYLE- ELEVATIONS

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24

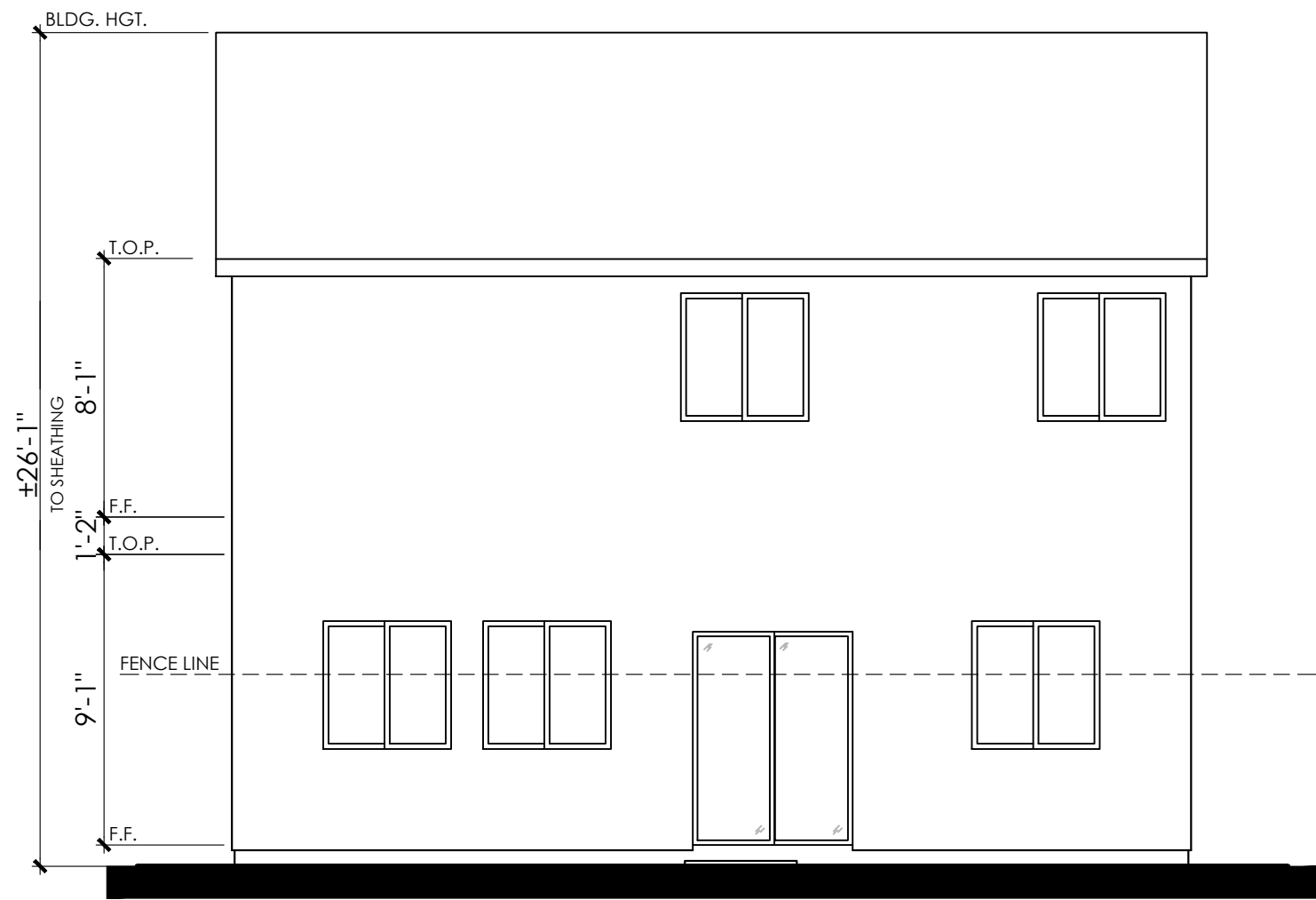


© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

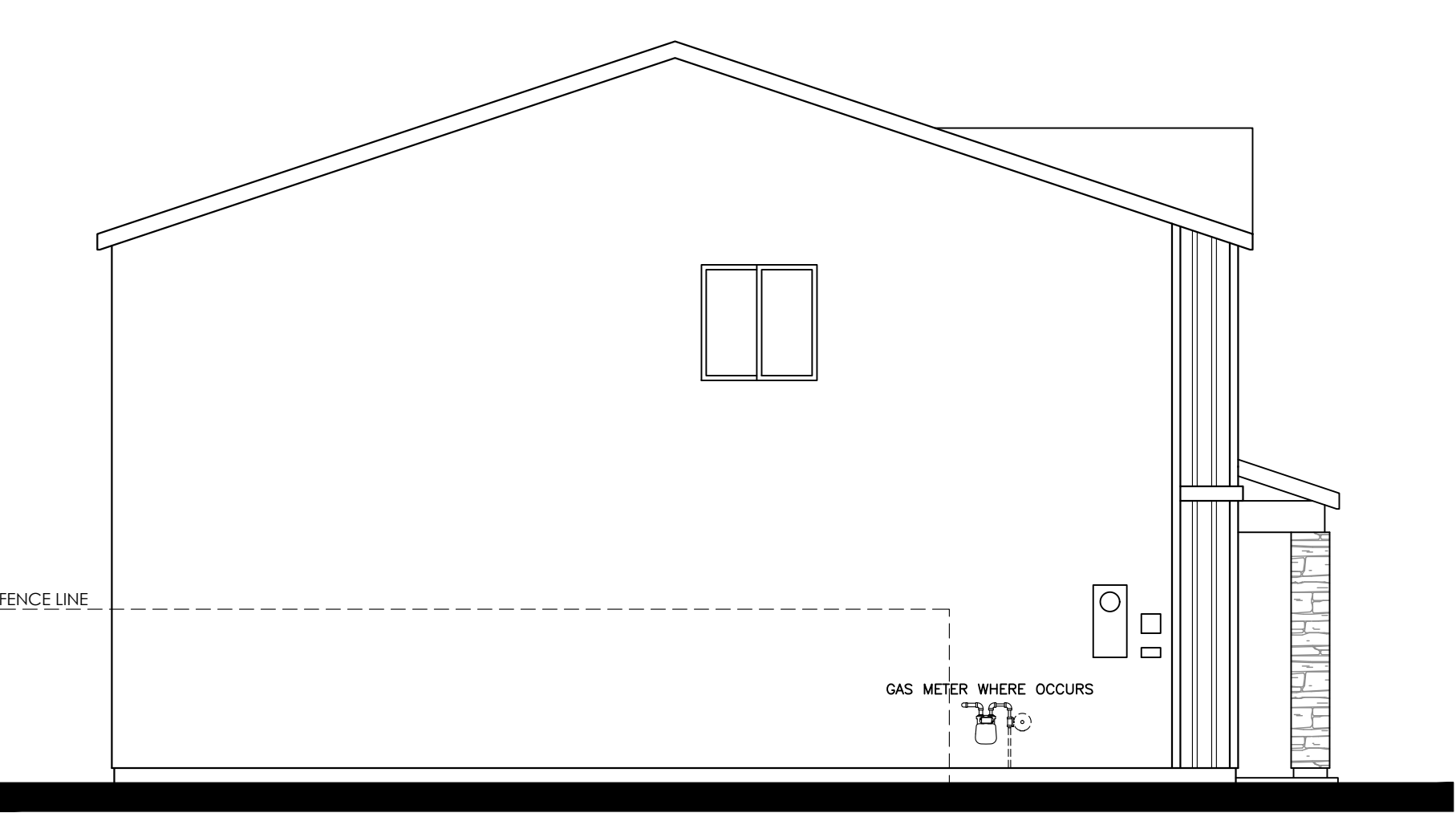
FRONT



RIGHT

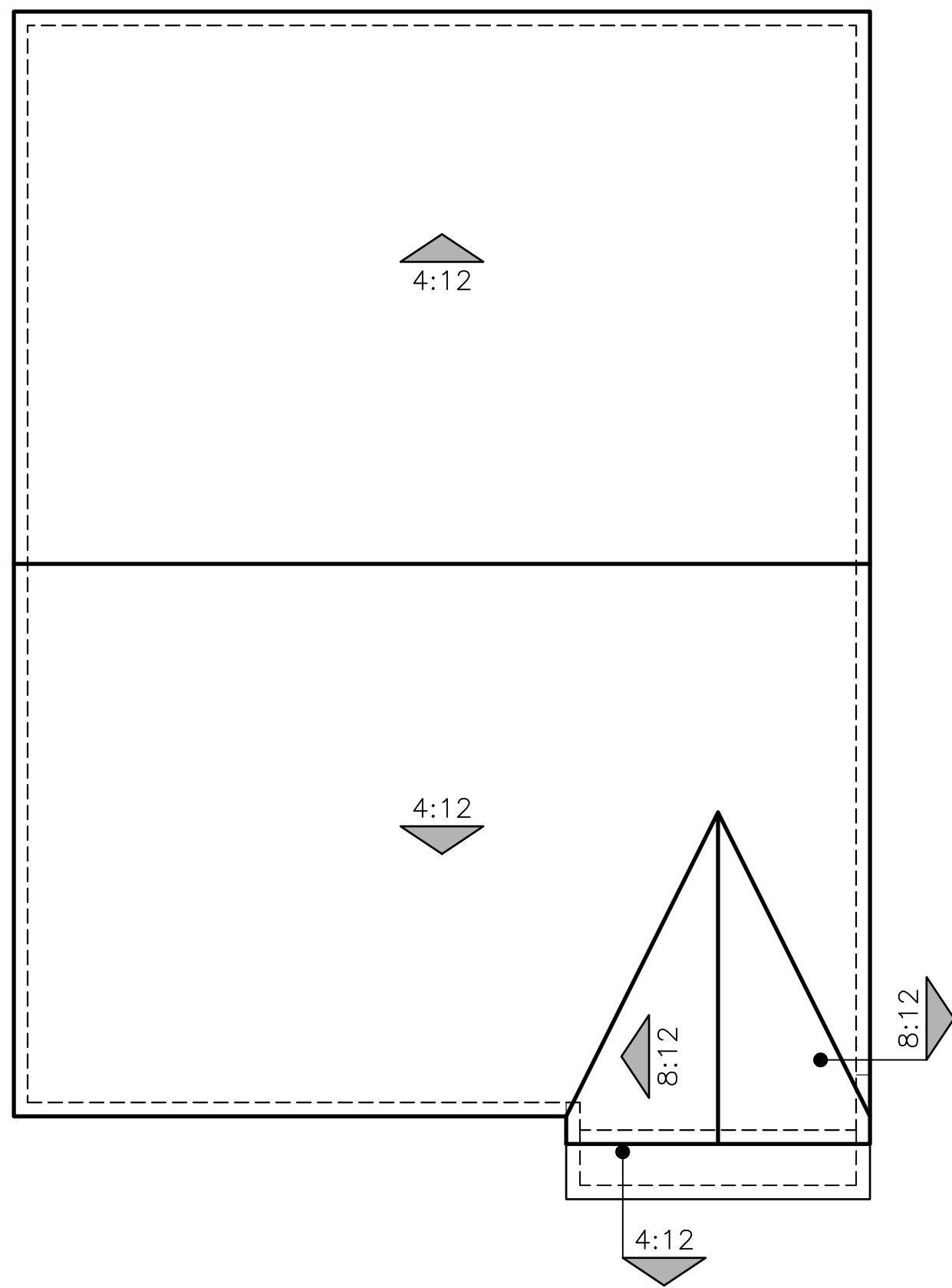


REAR

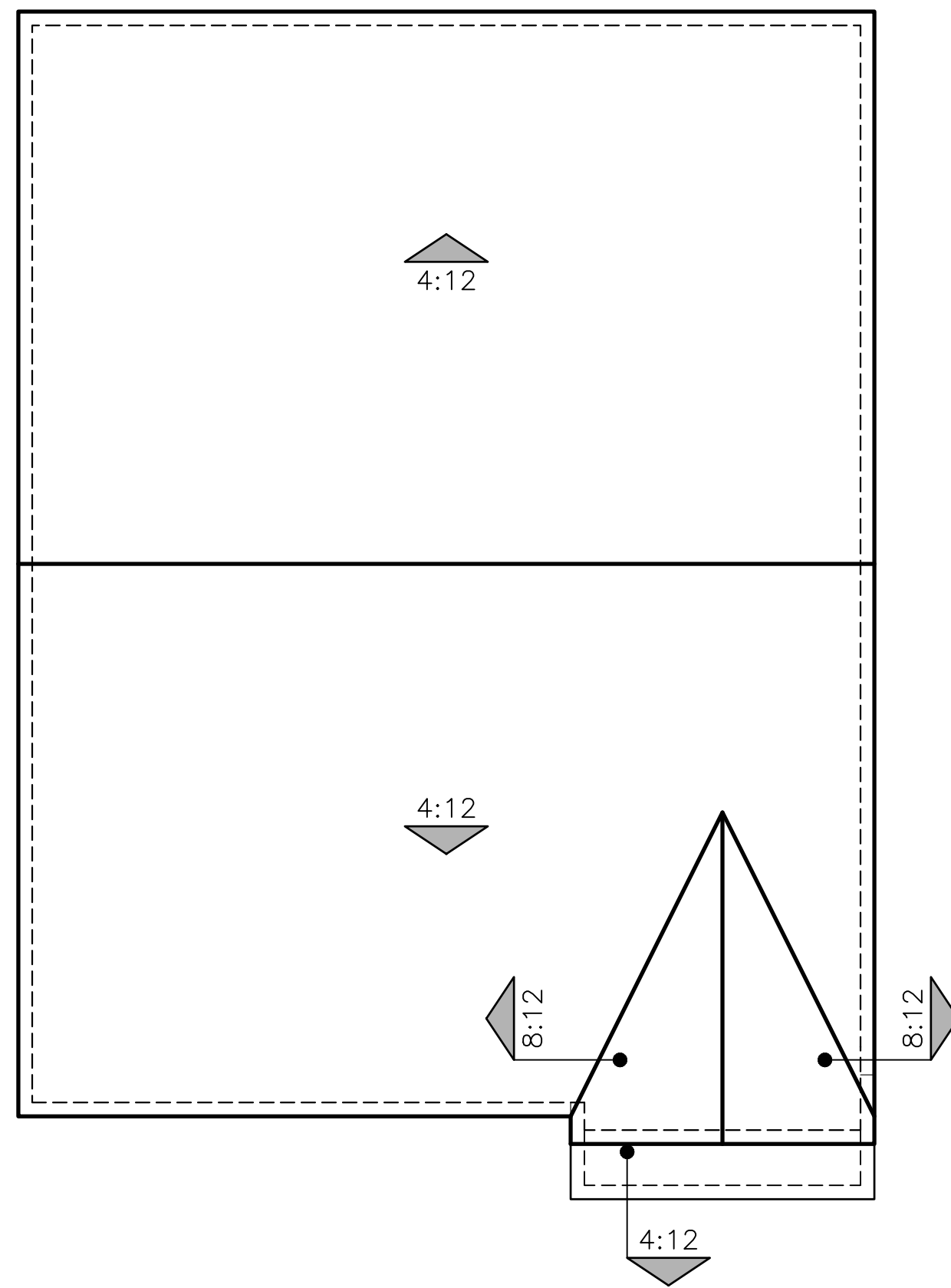


LEFT

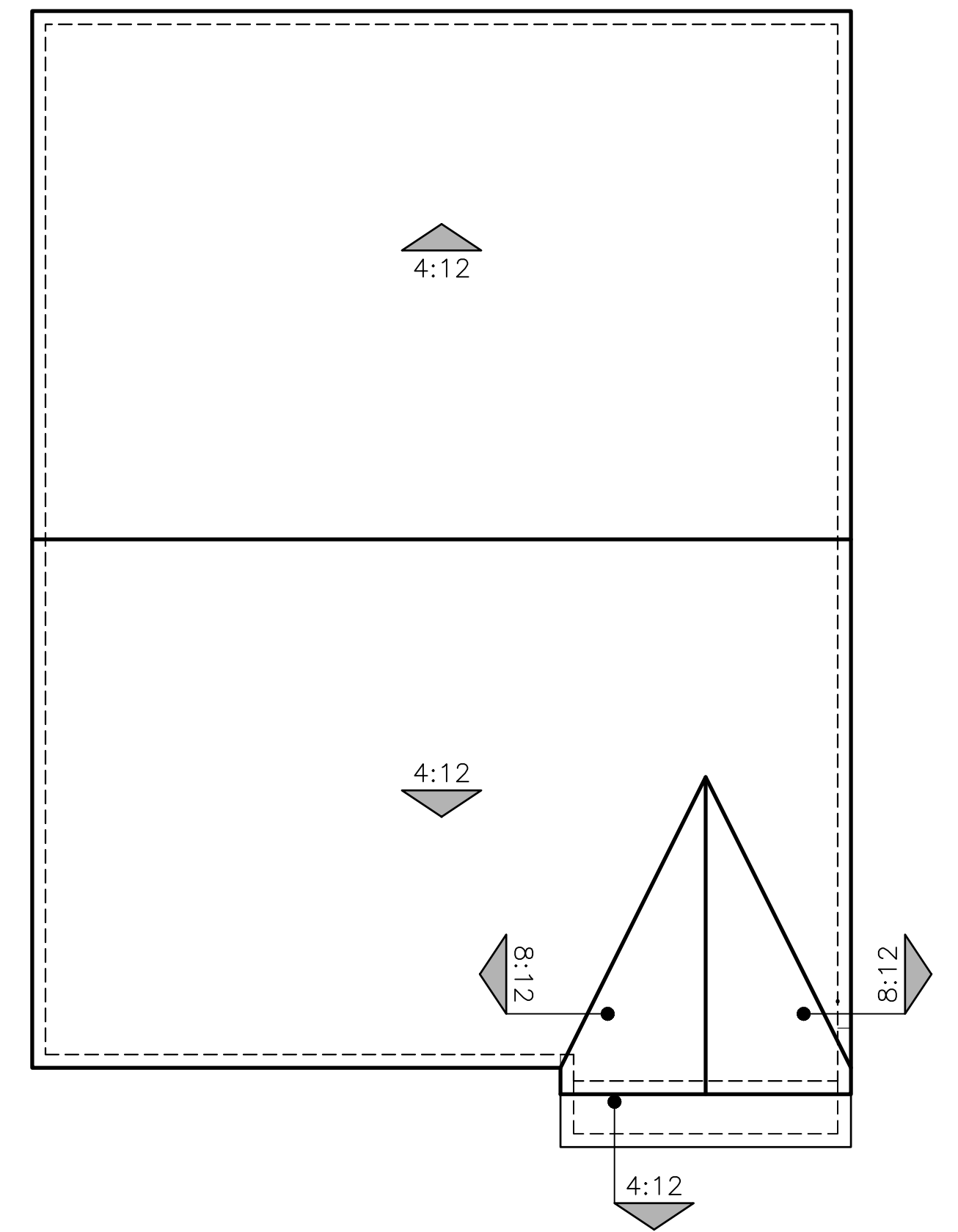
L016 VAIL (1855)
"C" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



A - STYLE



B - STYLE



C - STYLE

L016 VAIL (1855)

ROOF PLANS

CENTRAL VALLEY 30'

CALIFORNIA
09/18/24

0 2 4 8 12



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

A - STYLE



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

B - STYLE



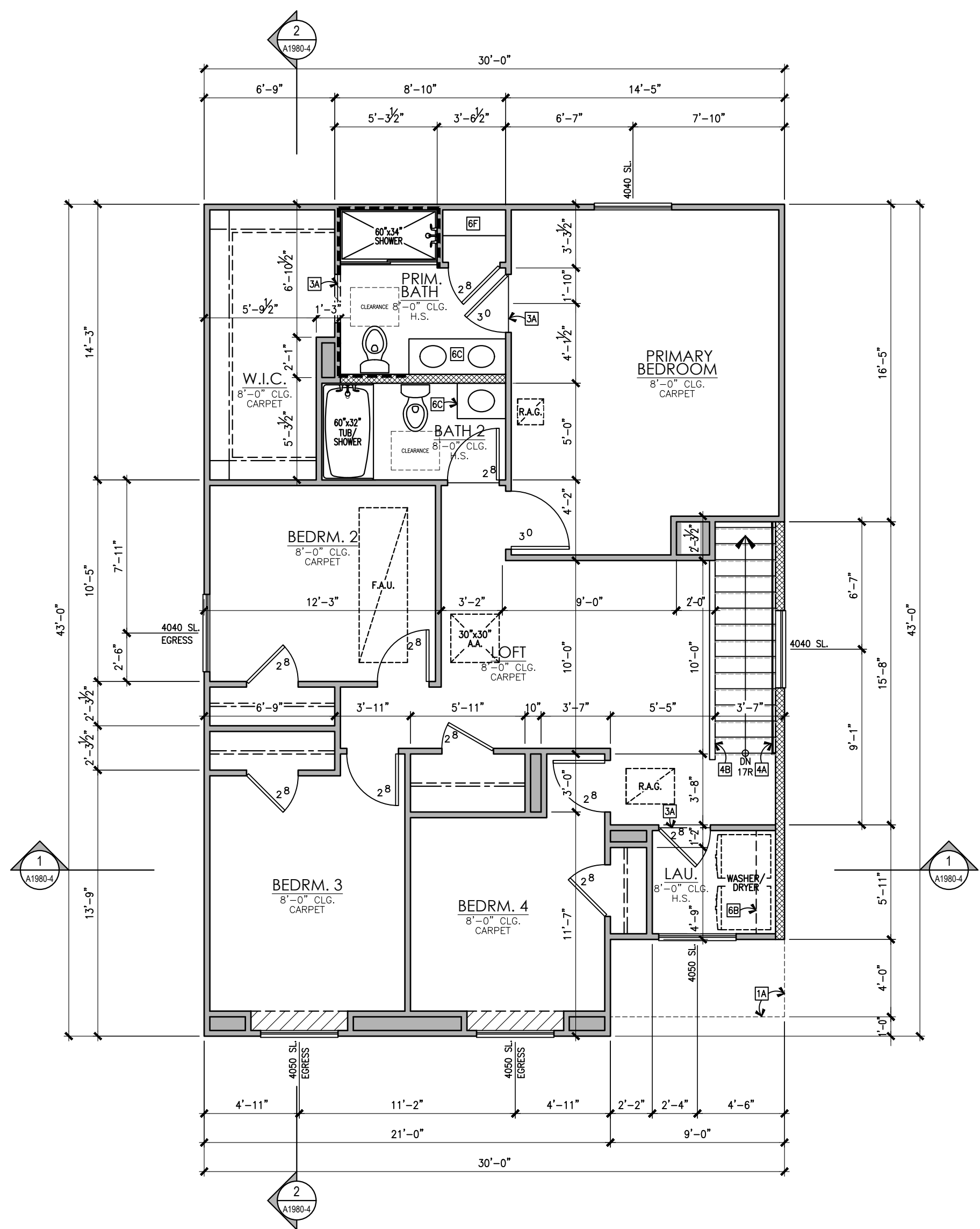
© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

C - STYLE

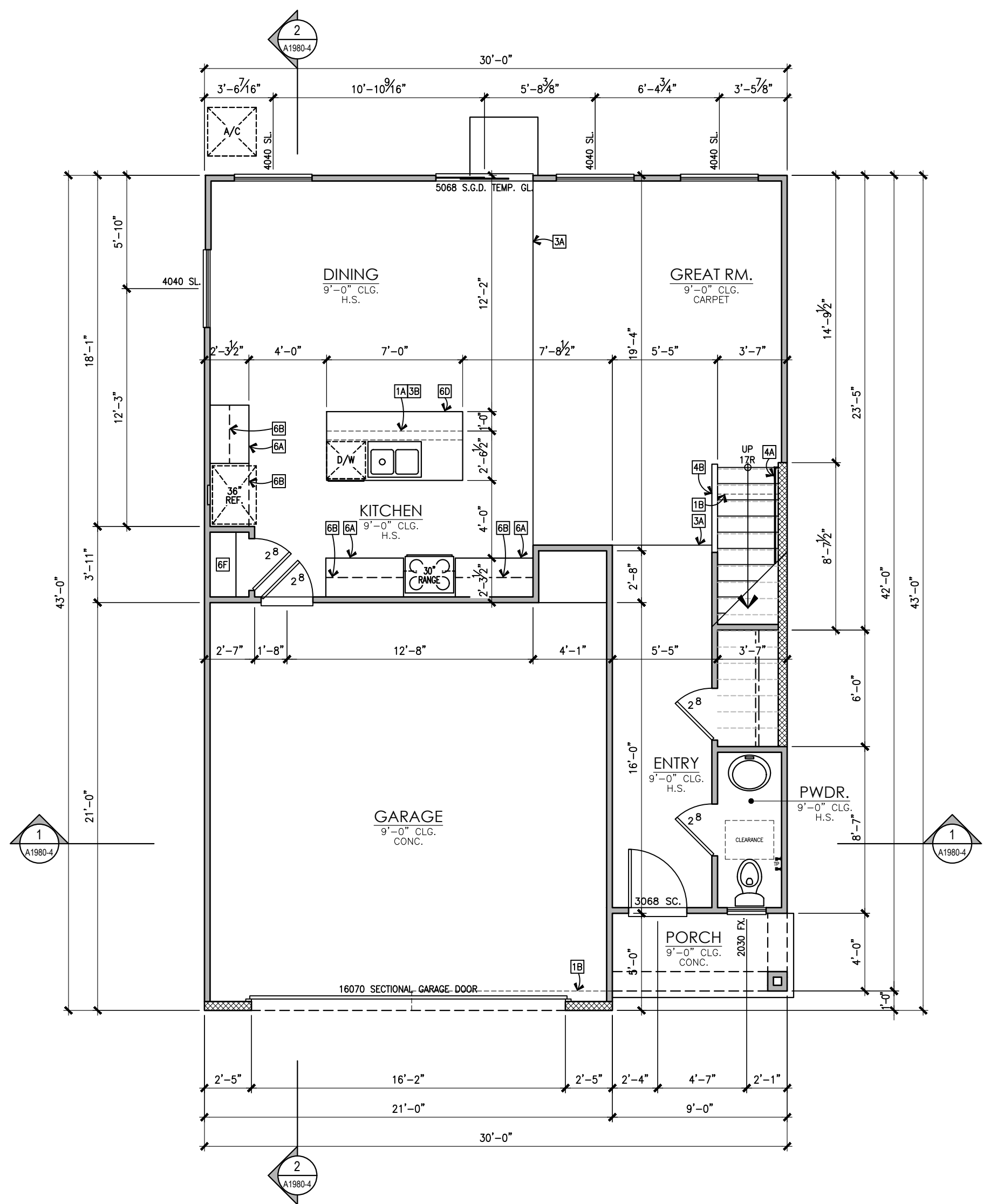
L034 BROADMOOR (1980)
FRONT ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24

L034 BROADMOOR (1980)
4 BEDROOM, 2.5 BATH, LOFT
FLOOR PLAN

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24

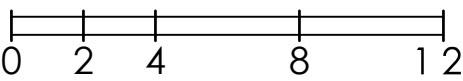


SECOND FLOOR



FIRST FLOOR

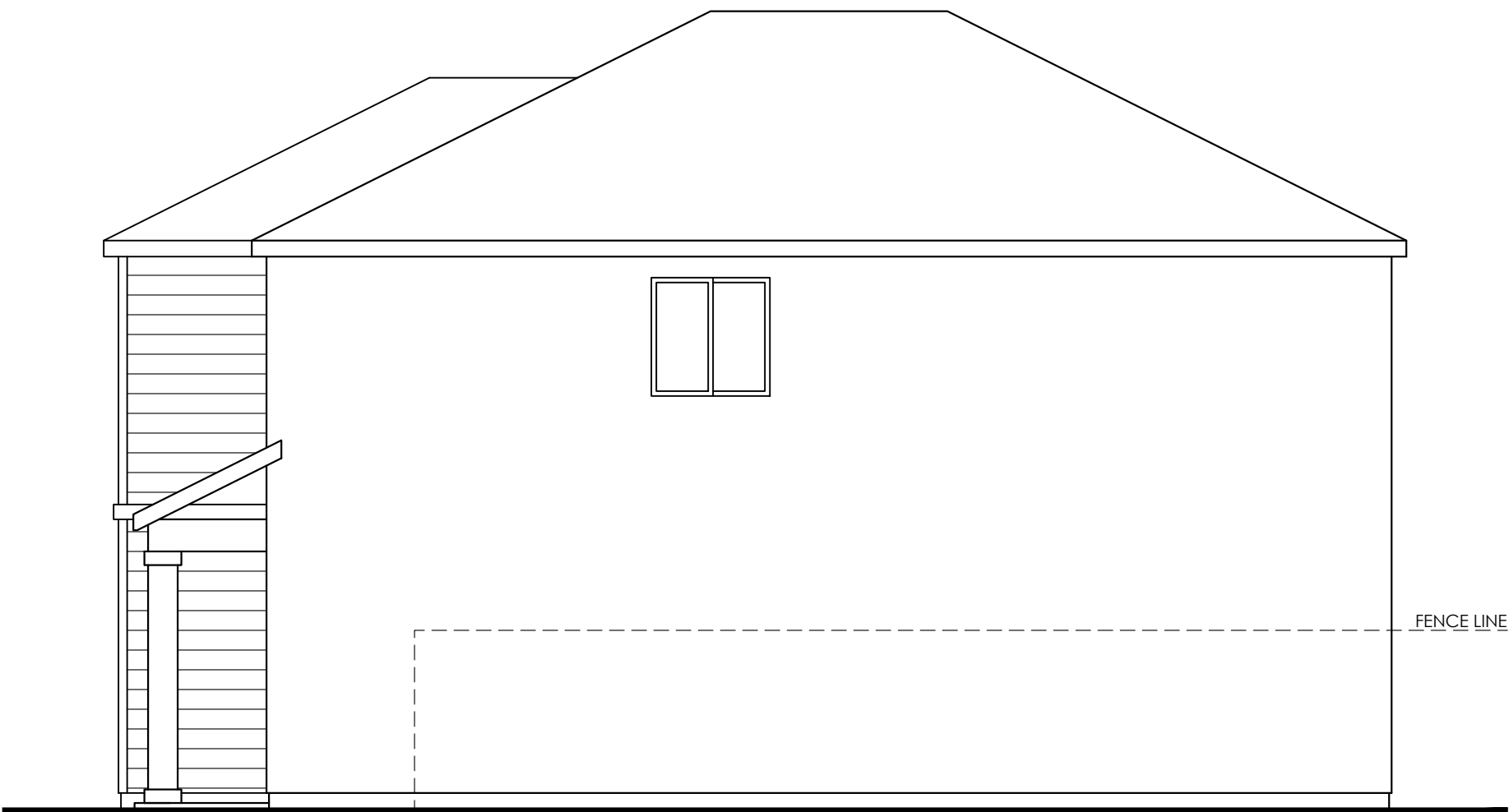
PLAN 3 AREA TABULATION	
CONDITIONED SPACE	
FIRST FLOOR AREA	799 SQ. FT.
SECOND FLOOR AREA	1,181 SQ. FT.
TOTAL DWELLING	1,980 SQ. FT.
UNCONDITIONED SPACE	
GARAGE	446 SQ. FT.
PORCH "A"	36 SQ. FT.





© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

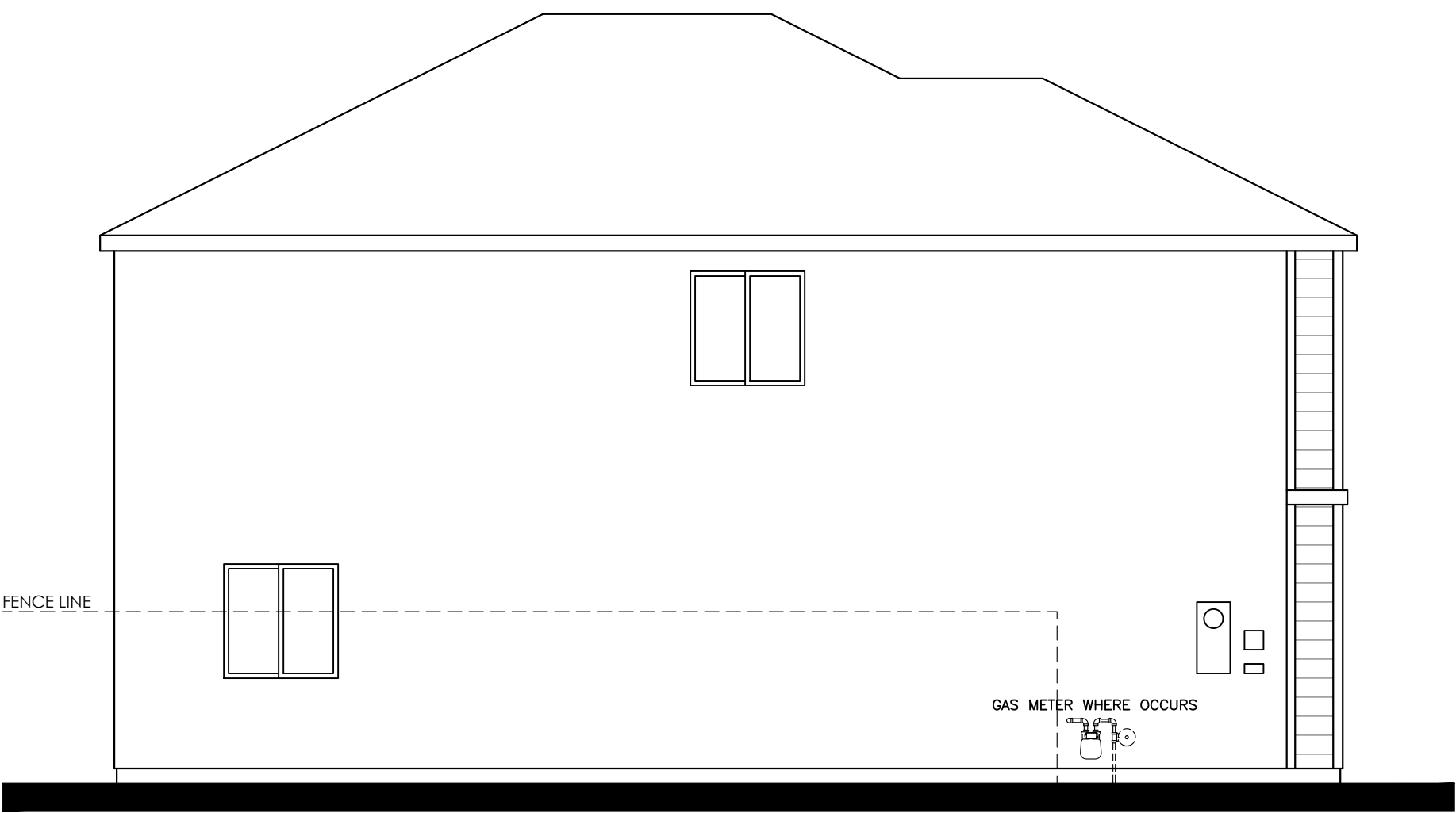
FRONT



RIGHT



REAR



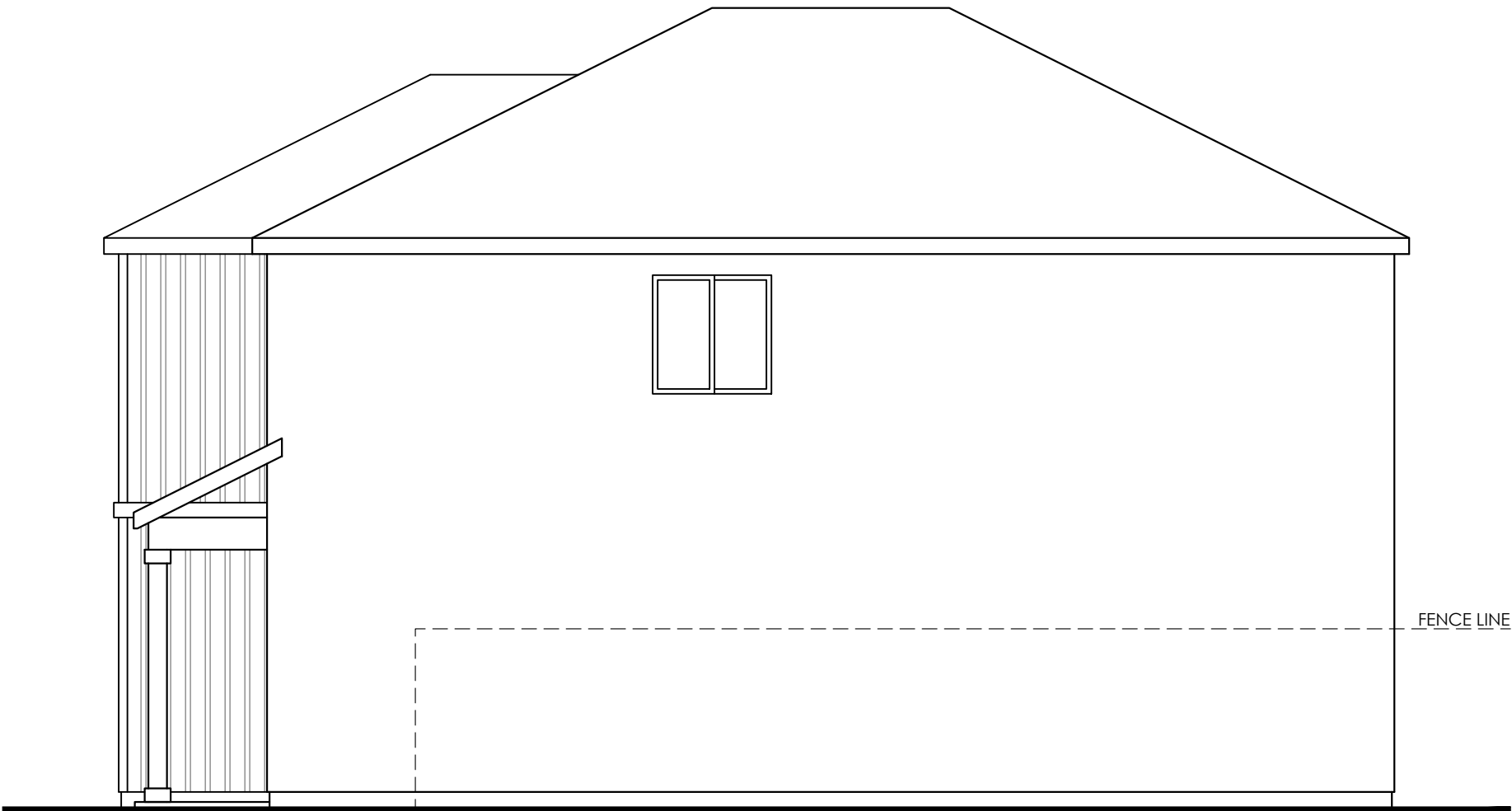
LEFT

L034 BROADMOOR (1980)
"A" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

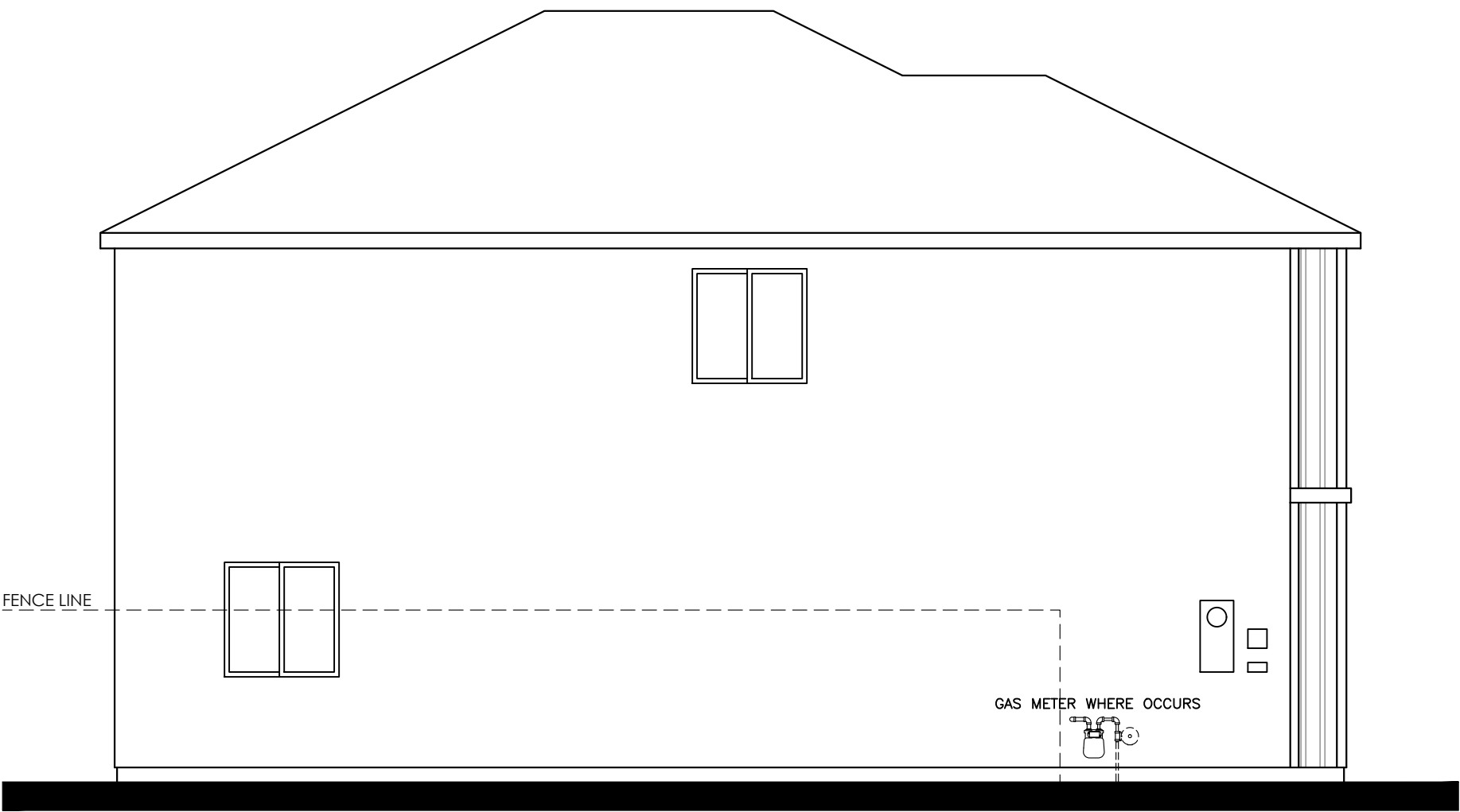
FRONT



RIGHT



REAR



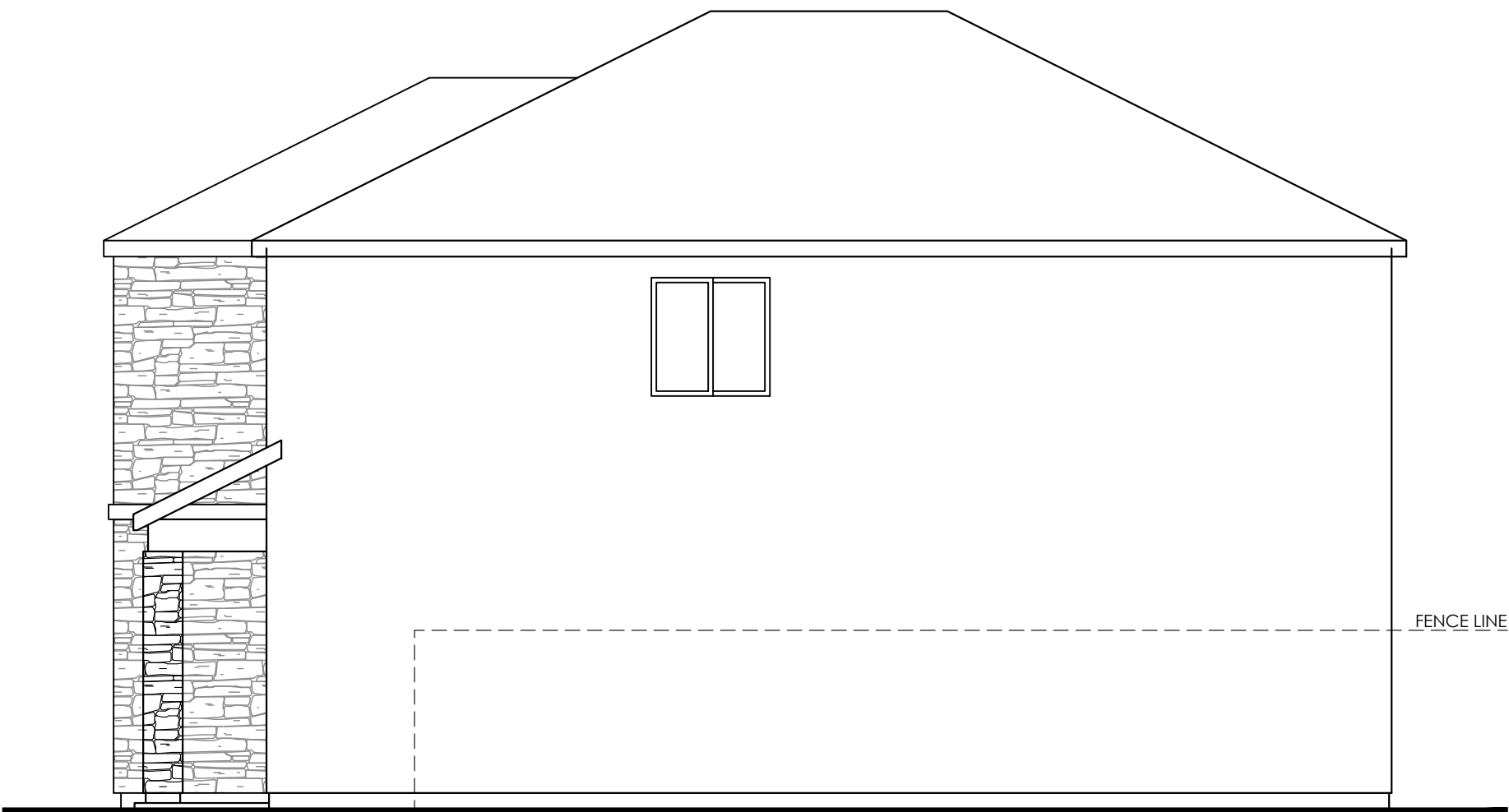
LEFT

L034 BROADMOOR (1980)
"B" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

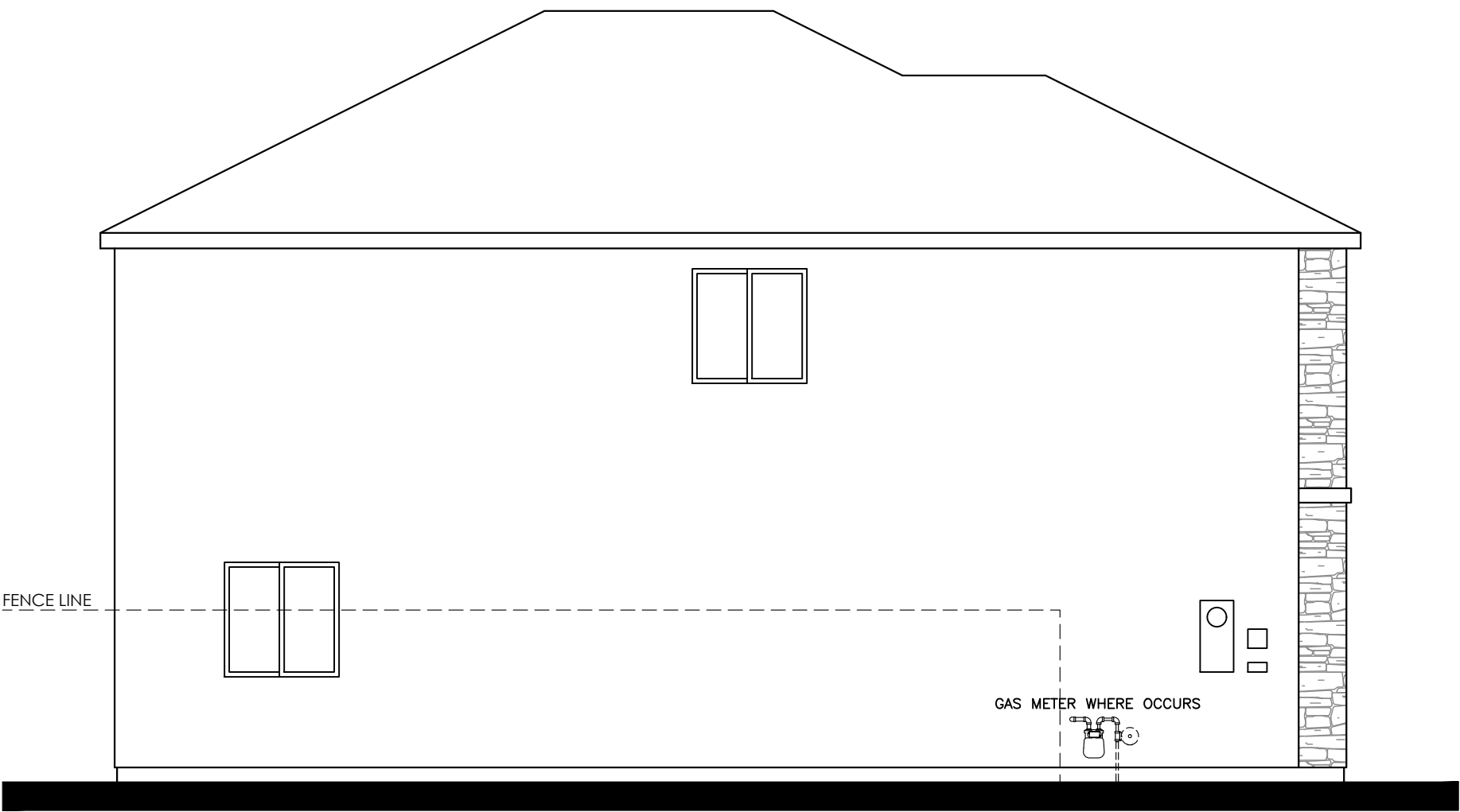
FRONT



RIGHT

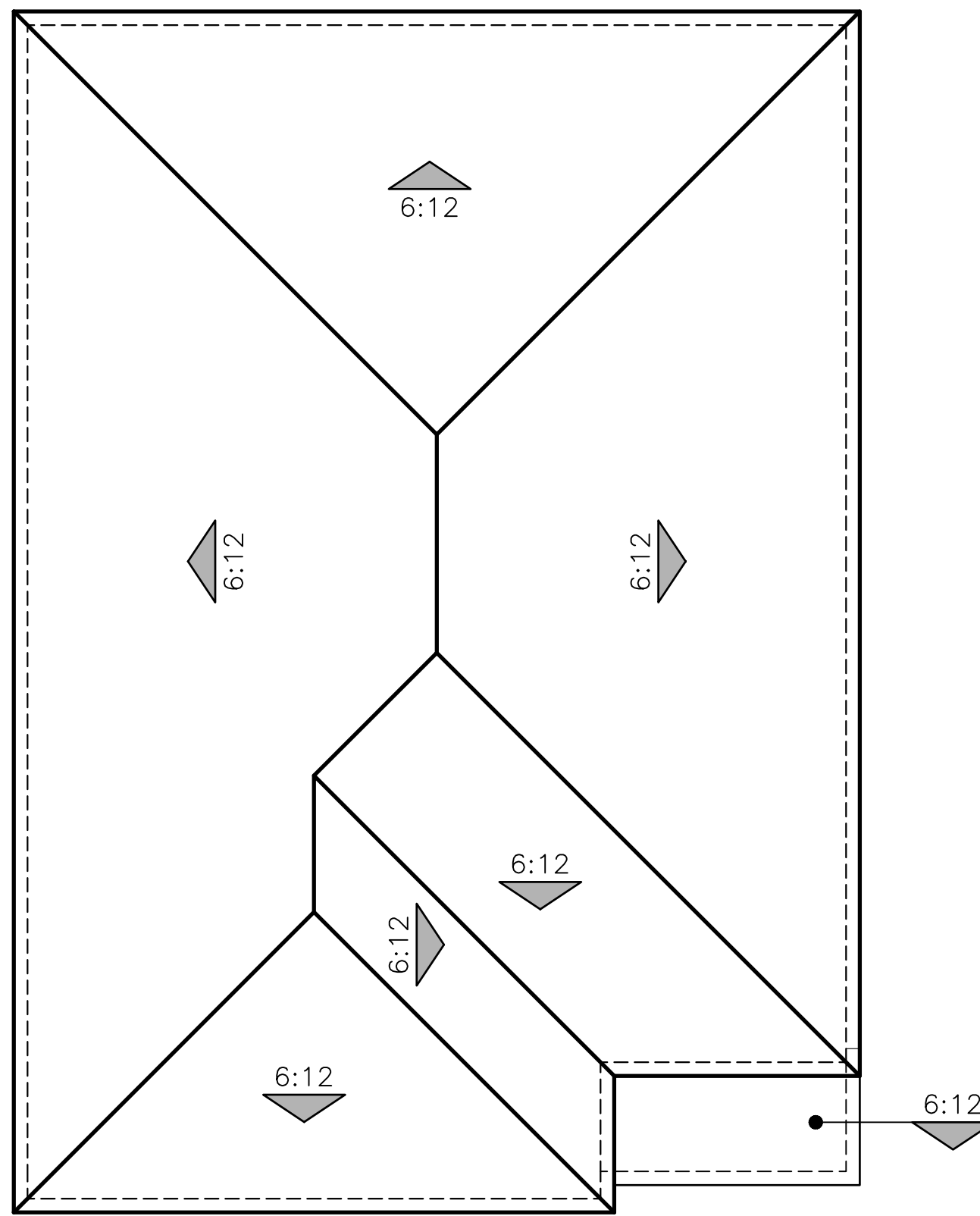


REAR

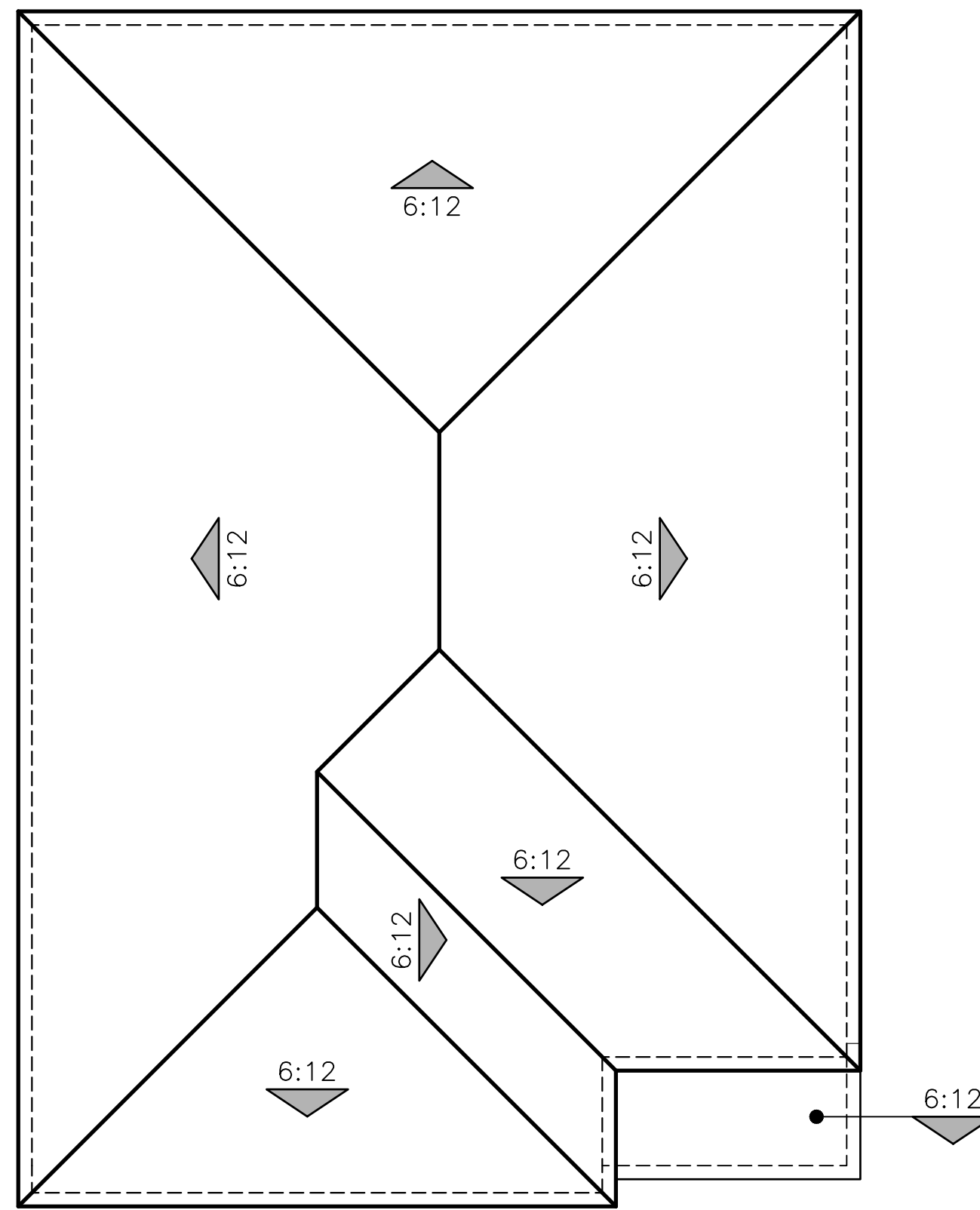


LEFT

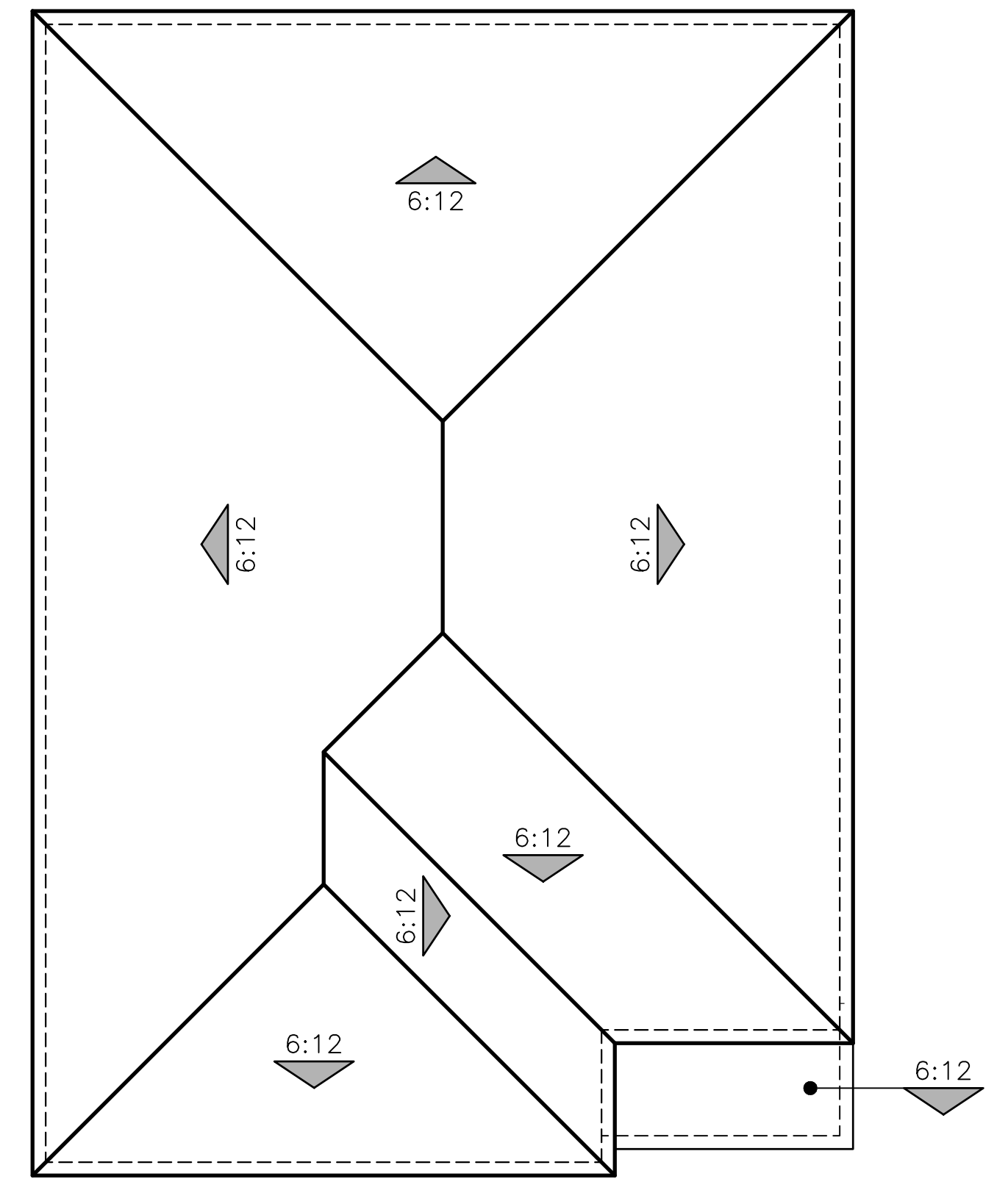
L034 BROADMOOR (1980)
"C" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



A - STYLE



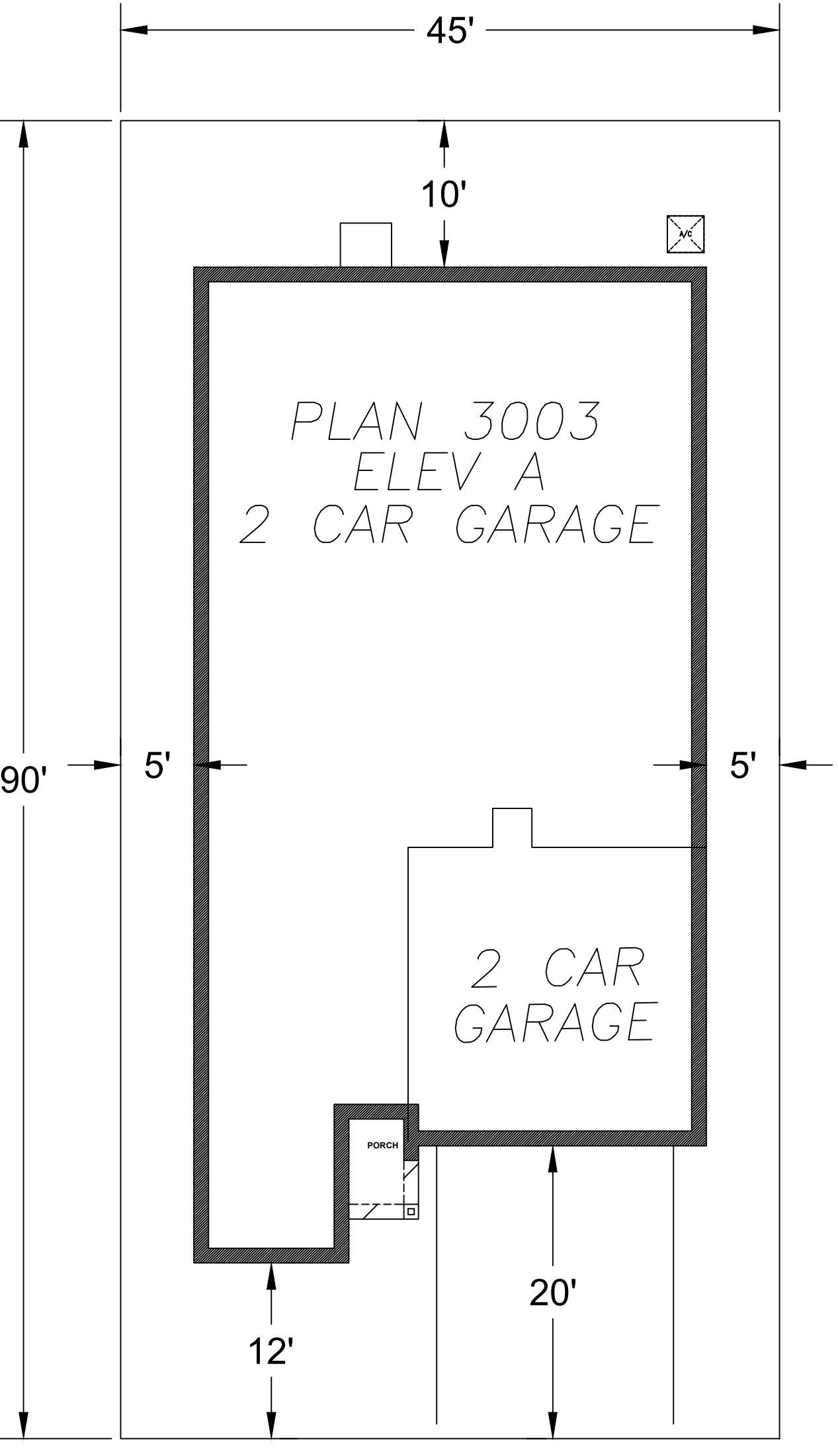
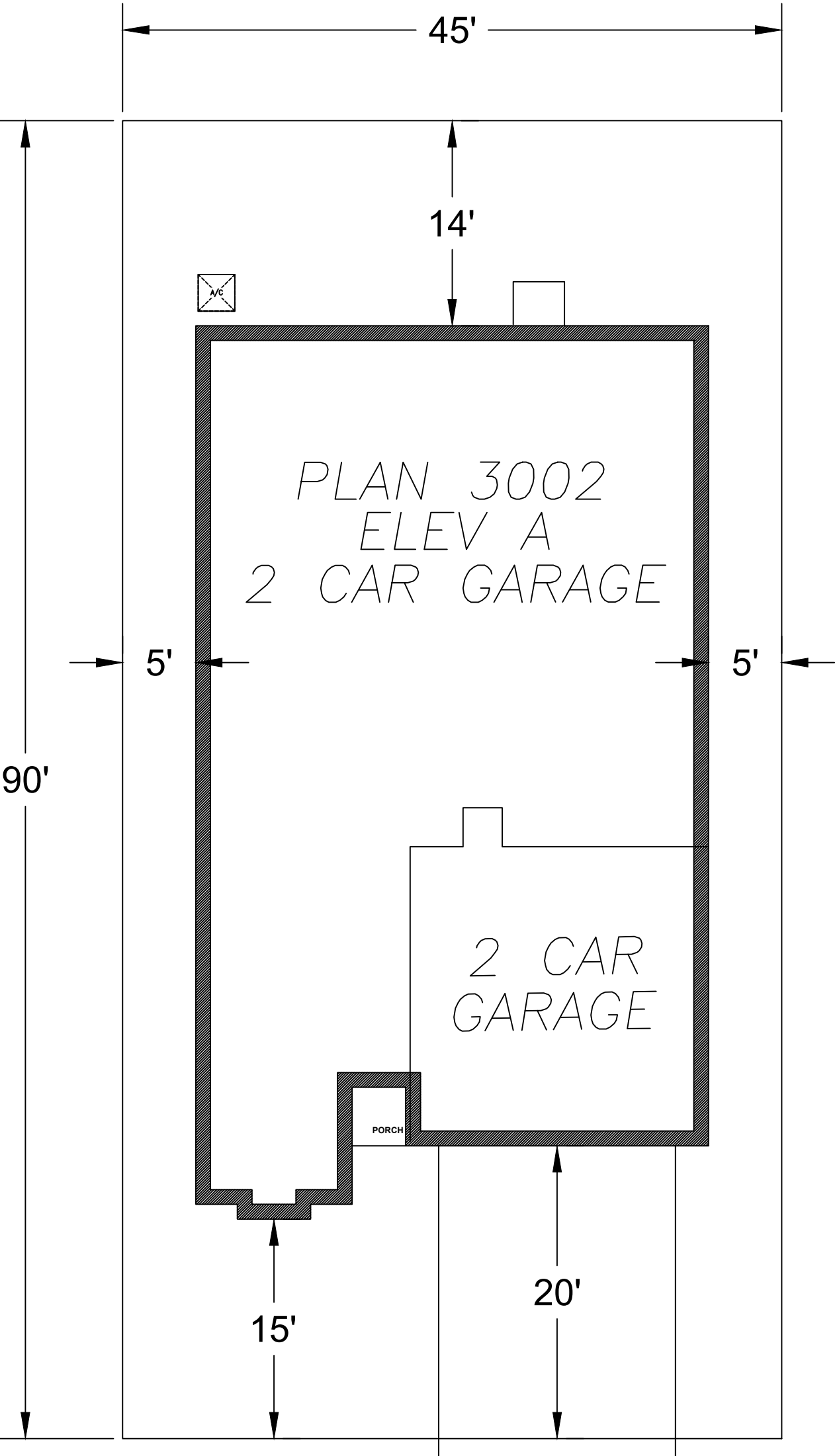
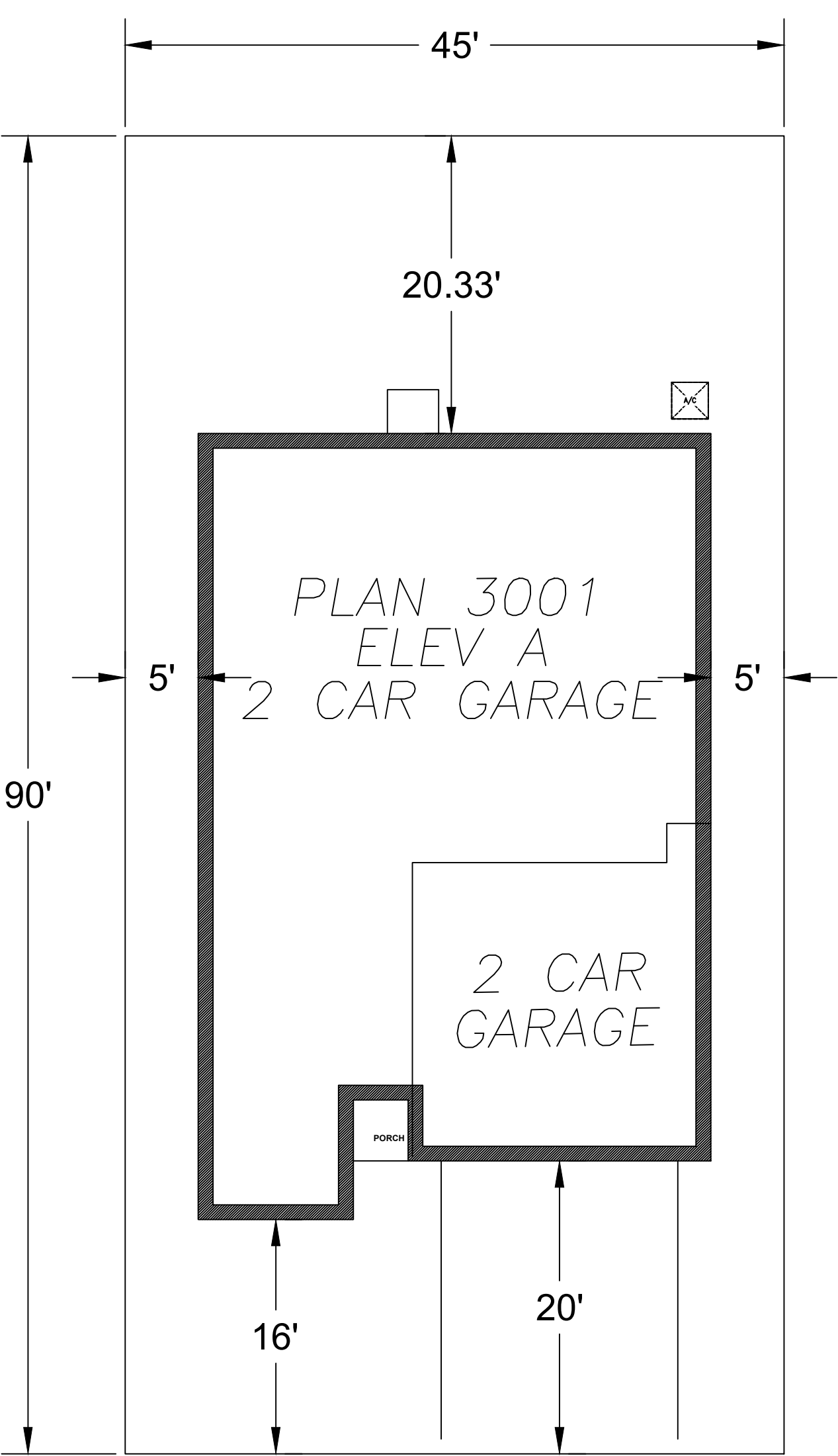
B - STYLE



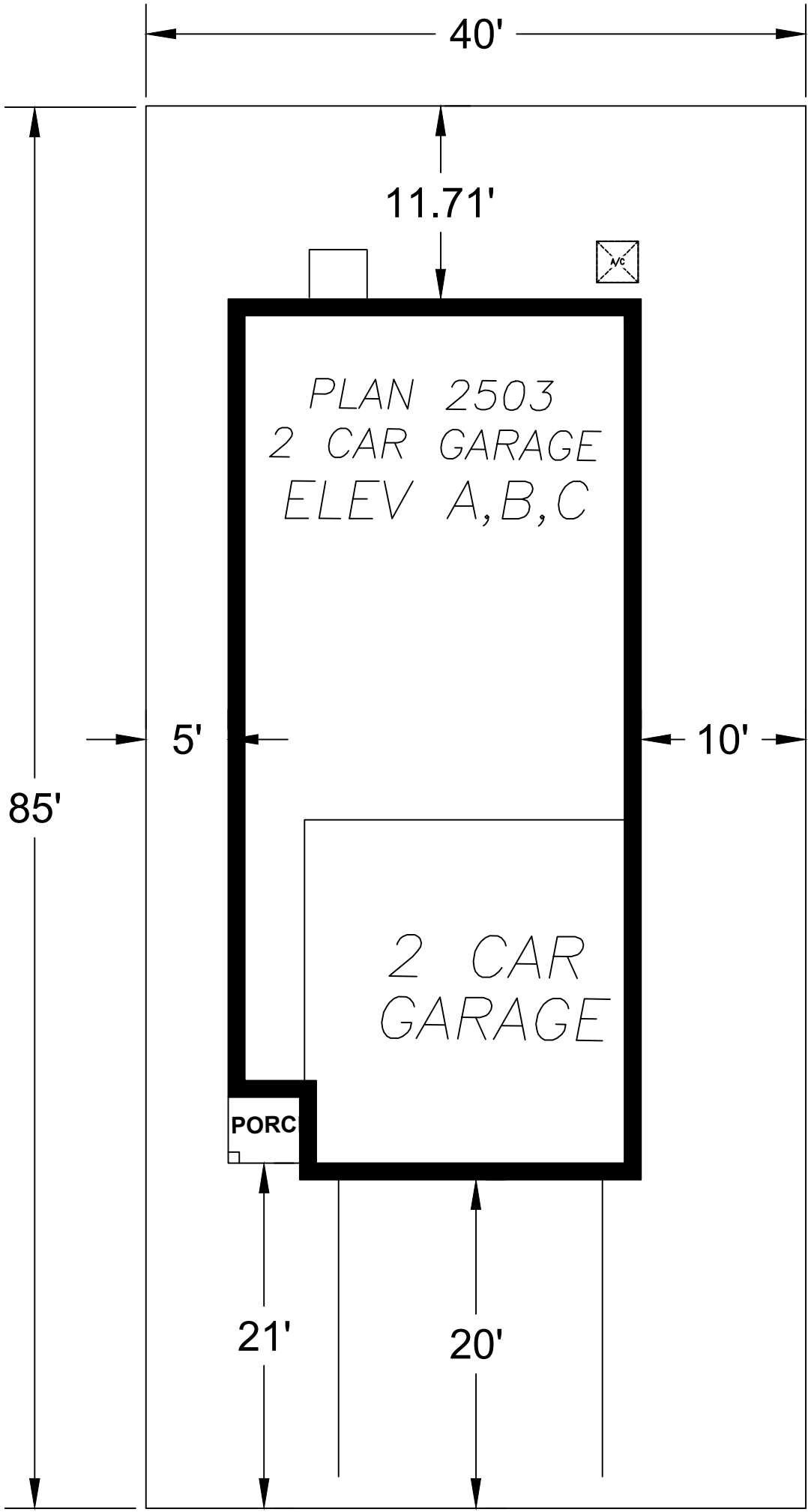
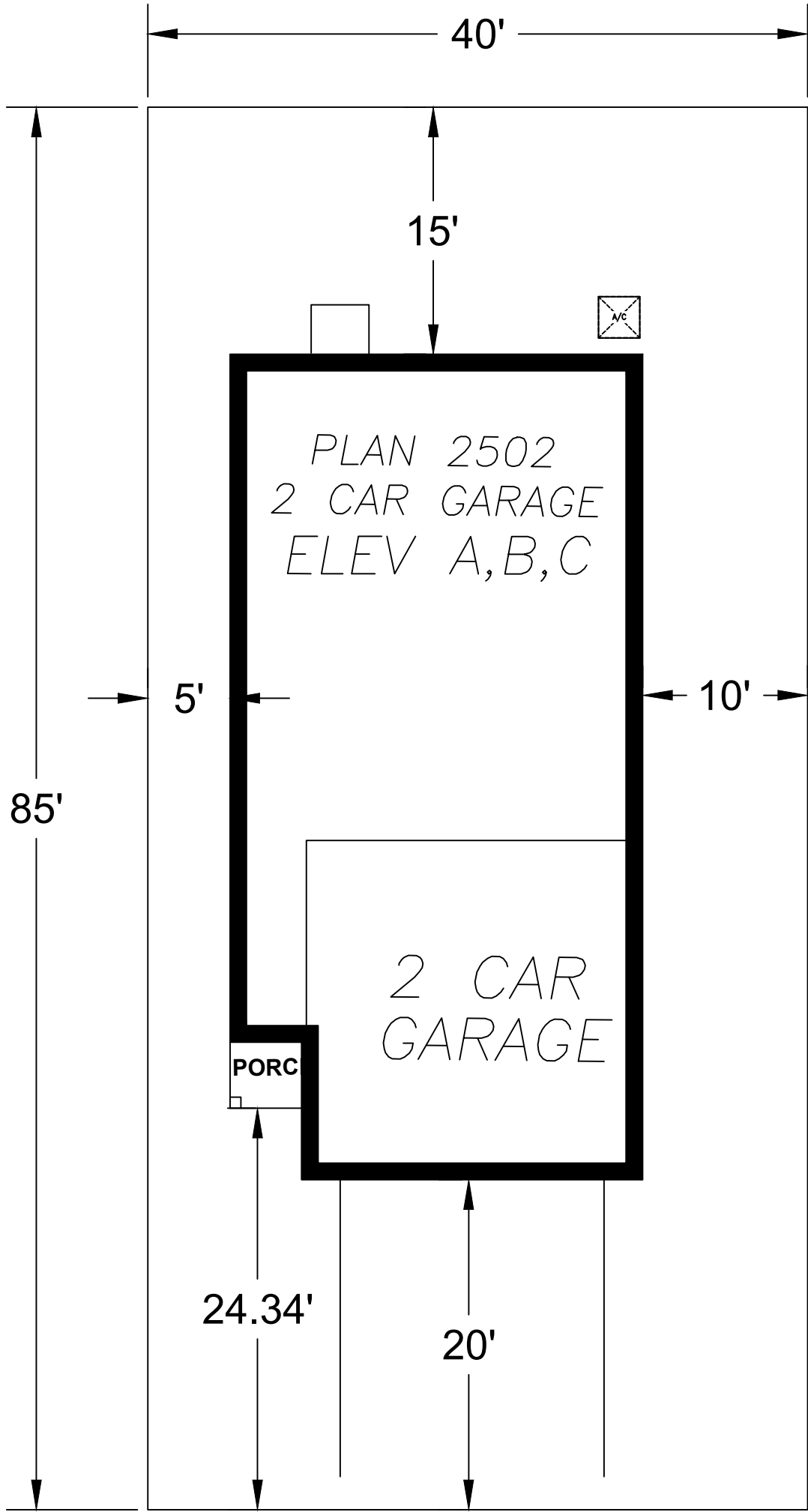
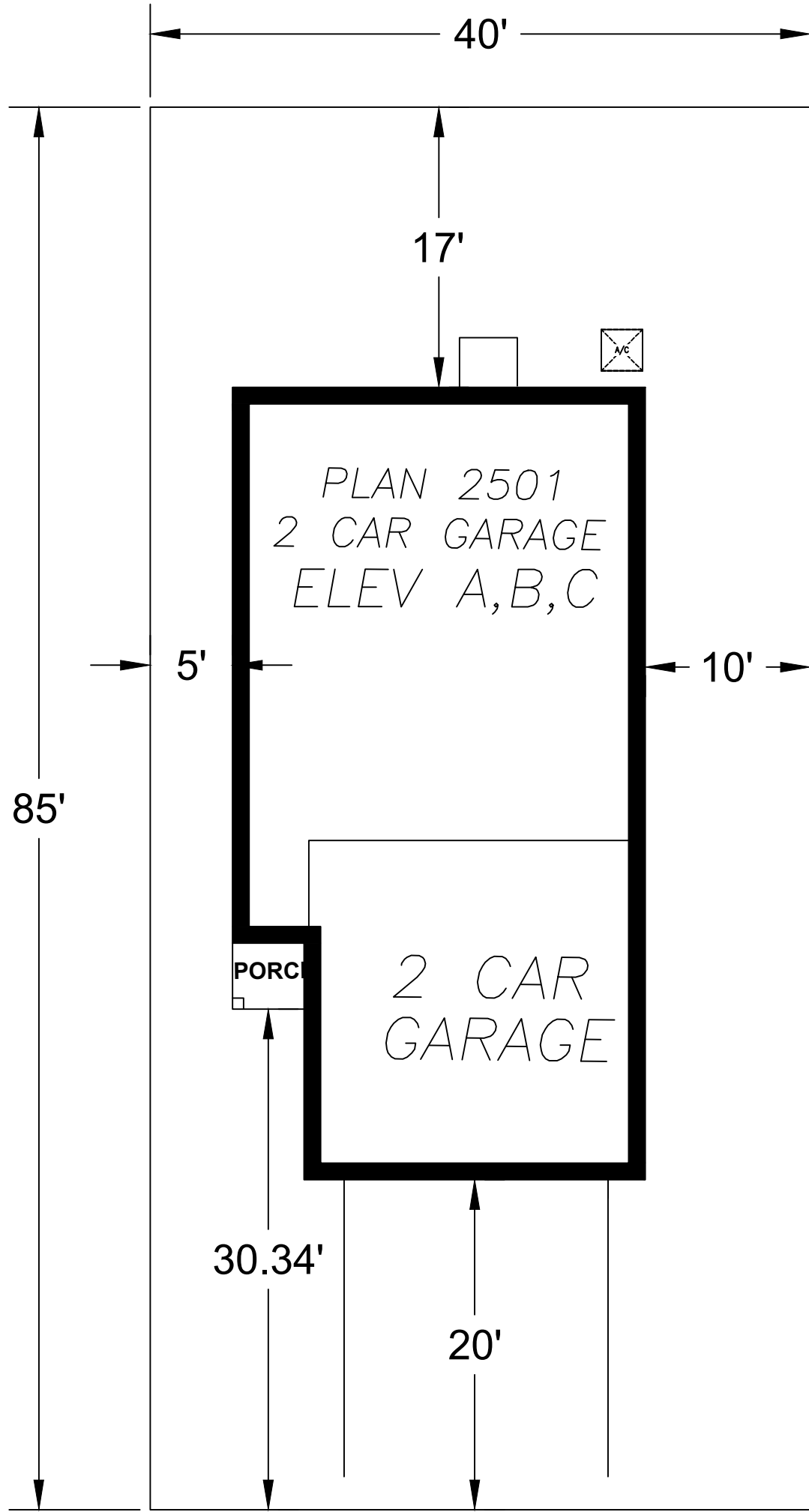
C - STYLE

L034 BROADMOOR (1980)
 ROOF PLANS
 CENTRAL VALLEY 30'
 CALIFORNIA
 09/18/24

WARMERDAM - TREASURES 45'x90'



WARMERDAM - CELESTIAL (40'X85')



WARMERDAM - CORE 30 (40'X70')

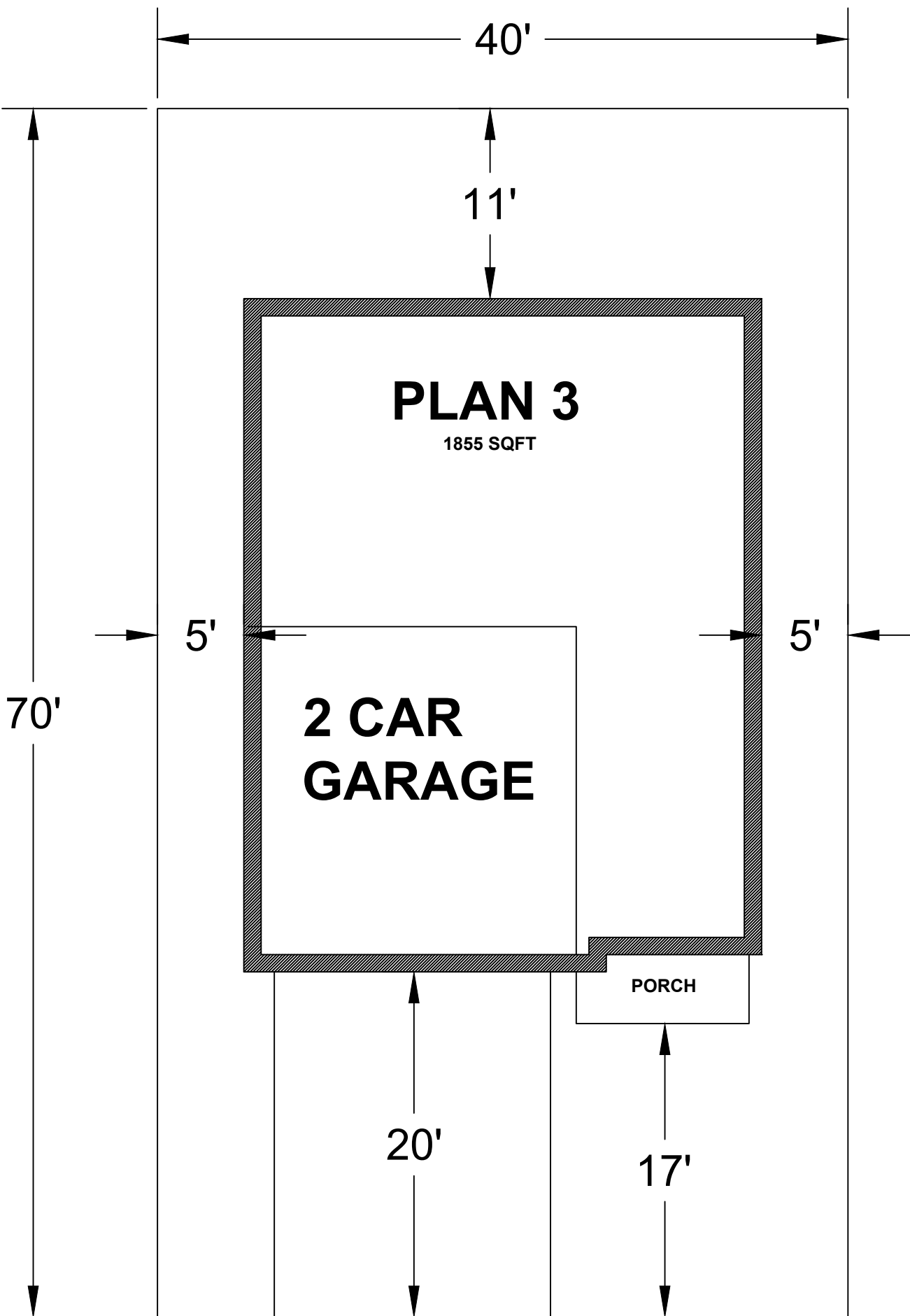
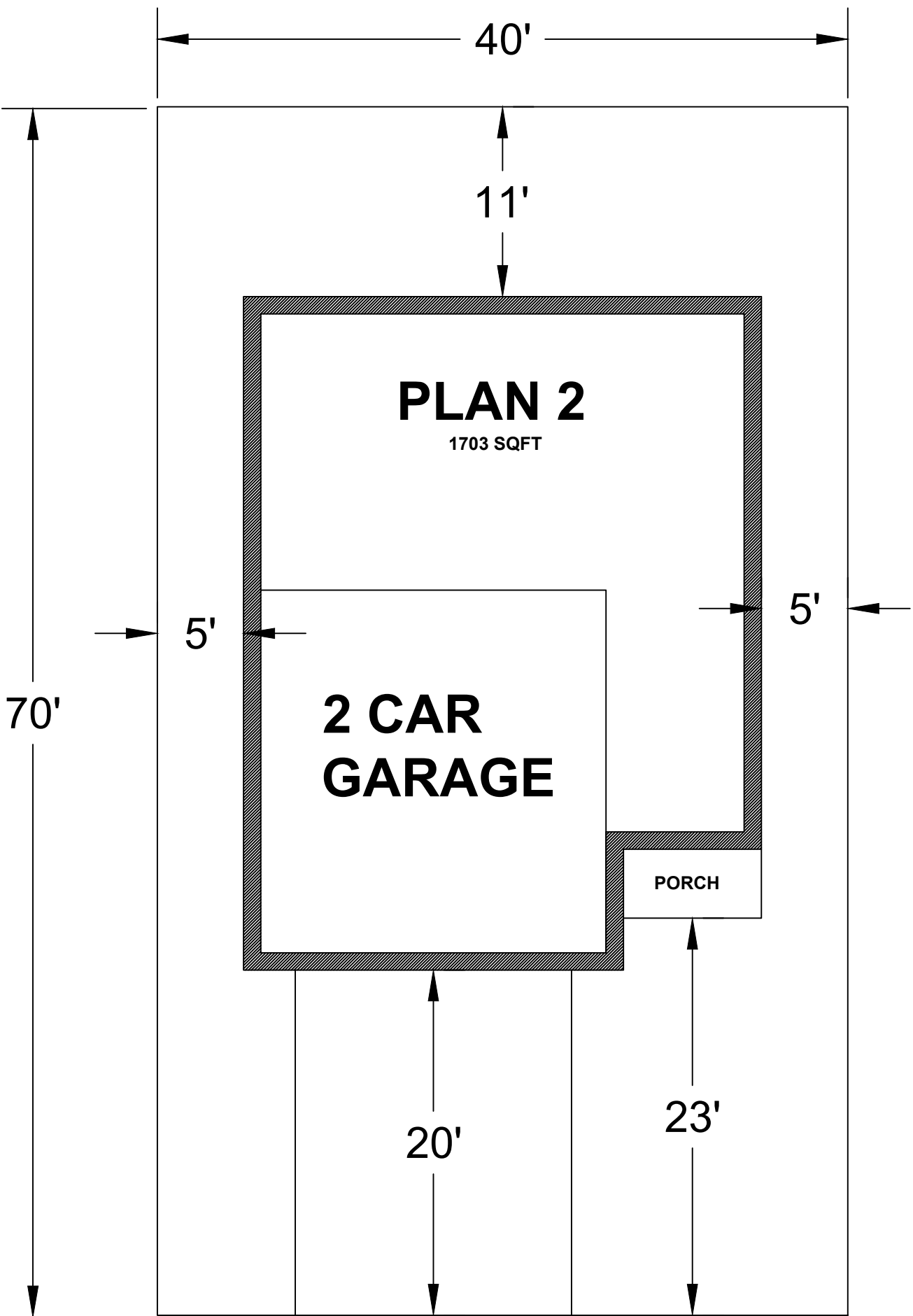
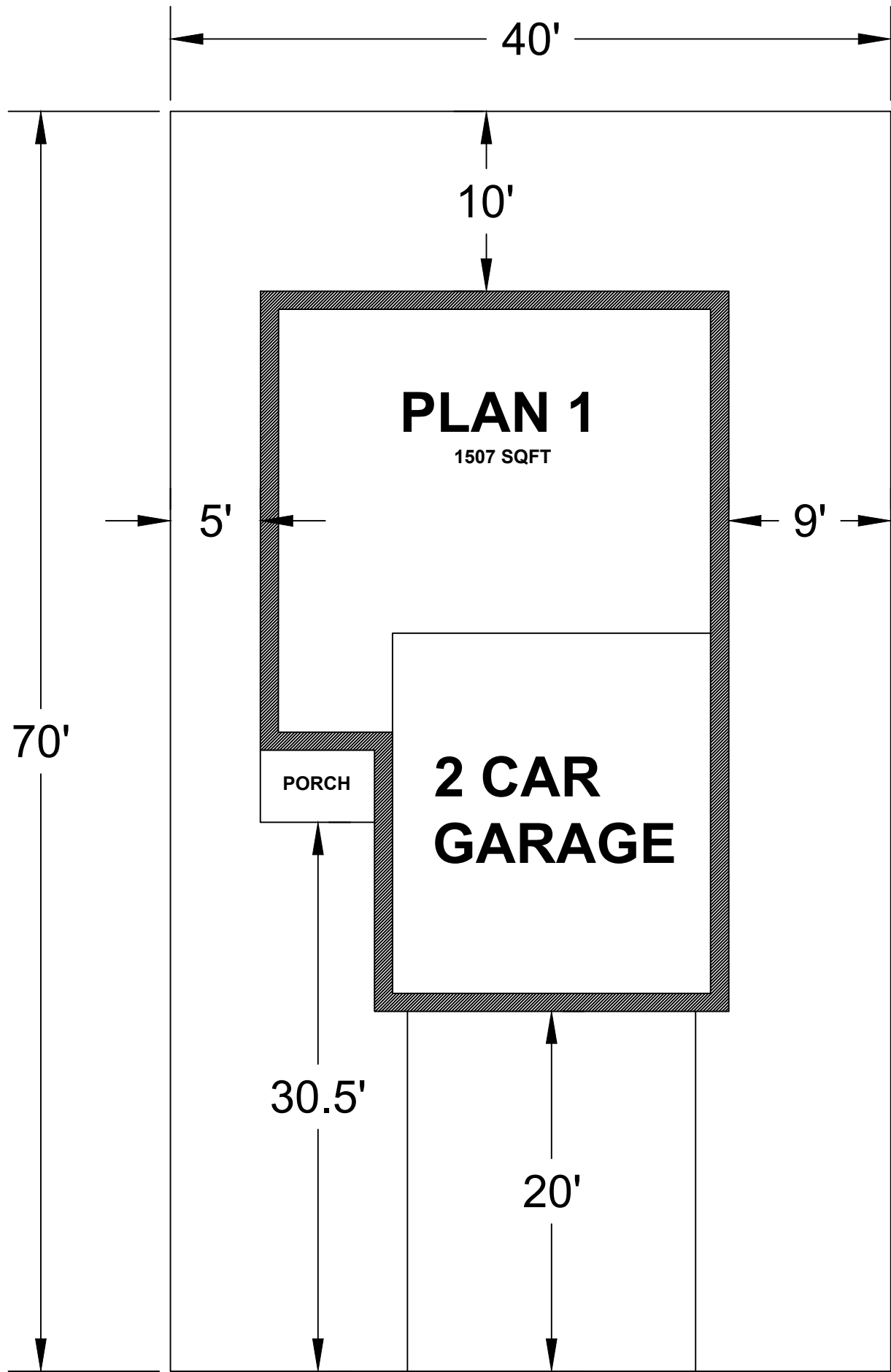


Exhibit C
Mitigation Monitoring and Reporting Program

MITIGATION MONITORING AND REPORTING PROGRAM

As required by Public Resources Code Section 21081.6, subd. (a)(1), a Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the Project in order to monitor the implementation of the mitigation measures that have been adopted for the Project. This Mitigation Monitoring and Reporting Program (MMRP) has been created based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) for the Copper Ridge Subdivision proposed by Quest Equity LLC in the City of Hanford.

The first column of the table identifies the mitigation measure. The second column names the party responsible for carrying out the required action. The third column, "Timing of Mitigation Measure" identifies the time the mitigation measure should be initiated. The fourth column, "Responsible Party for Monitoring," names the party ensuring that the mitigation measure is implemented. The last column will be used by the City of Hanford to ensure that the individual mitigation measures have been monitored.

Plan checking and verification of mitigation compliance shall be the responsibility of the City of Hanford.

MITIGATION MEASURE	RESPONSIBLE PARTY FOR IMPLEMENTATION	IMPLEMENTATION TIMING	RESPONSIBLE PARTY FOR MONITORING	VERIFICATION
Biological Resources				
Mitigation Measure BIO 1 (Construction Timing). If feasible, future construction activities will take place entirely outside of the avian nesting season, defined as February 1 to August 31.	Applicant Developer Builder	Ongoing	City of Hanford	
Mitigation Measure BIO 2 (Preconstruction Surveys). If construction must occur between February 1 and August 31, a qualified biologist will conduct surveys for active bird nests within 7 days prior to the start of work during this period. The survey area will encompass the site and accessible surrounding lands within ¼ mile for nesting Swainson's hawks, 500 feet for other nesting raptors, 300 feet for the tricolored blackbird, and 250 feet for	Applicant Developer Builder	7 days prior to construction	City of Hanford	

other nesting birds.				
Mitigation Measure BIO 3 (Avoidance of Active Nests). Should any active nests be discovered in or near proposed construction zones, the biologist will identify a suitable construction-free buffer around the nest. This buffer will be identified on the ground with flagging or fencing and will be maintained until the biologist has determined that the young have fledged and are capable of foraging independently.	Applicant Developer Builder	Ongoing	City of Hanford	
Cultural Resources				
Mitigation Measure CUL-1: In the event of accidental discovery of unidentified archaeological remains during development or ground disturbing activities in the Project area, all work shall be halted in immediate vicinity (within a 100-foot radius) until a qualified archaeologist can identify the discovery and assess its significance.	Applicant/ Construction Contractor	Ongoing during construction	City of Hanford	
Mitigation Measure CUL 2: If human remains are uncovered during construction, work shall be halted, and the Kings County Coroner is to be notified to investigate the remains and arrange proper treatment and disposition. If the remains	Applicant/ Construction Contractor	Ongoing during construction	City of Hanford	

are identified on the basis of archaeological context, age, cultural associations, or biological traits to be those of a Native American, California Health and Safety Code 7050.5 and California Public Resources Code 5097.98 require that the coroner notify the Native American Heritage Commission (NAHC) within 24 hours of discovery. The NAHC will then identify the Most Likely Descendent who will make recommendations regarding the treatment and disposition of the remains.				
Mitigation Measure CUL 3 A burial Treatment Plan shall be entered into by the Project applicant/property owner prior to any ground disturbing activities.	Applicant Construction Contractor	Prior to ground disturbing activities	City of Hanford	

Exhibit D
Conditions of Approval

PLANNING DIVISION
SITE PLAN REVIEW COMMENTS

TENTATIVE TRACT NO. 0012-24 V8

CONTACT: Gabrielle Myers, Senior Planner: (559) 585-2578

General Plan Designation: Low-Density Residential and Medium-Density Residential

Proposed GP Designation: Medium-Density Residential and Neighborhood Mixed Use

Zoning: Kings County Jurisdiction

Other Special Districts: N/A

Associated Entitlements

1. Annexation 166
2. General Plan Amendment –request to change from Low-Density Residential to Medium-Density Residential and Neighborhood Mixed Use
3. Prezone –Combination of R-M and MX-N
4. Planned Unit Development – a request to allow various deviations from the regulation of the R-M Medium-Density Residential zone district for the mixed use subdivision, proposed under Tentative Tract 945, including reduced lot size, lot width, lot depth, site area per dwelling unit requirements, setbacks, open space dimensions, and allow removal of the block wall requirement between MX-N Neighborhood Mixed Use and R-M Medium-Density Residential.

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet
	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet

	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-foot wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.

Planning Division Recommendation ☒ Revise and Proceed ☐ Resubmit

R-M Medium Density Residential Zone District Standards

General Requirements:

- ☒ **That the multi-family duplexes and 8-plex low-rise apartments depicted in Phase 3, 4 and 5 are considered conceptual. Site Plan Review (and any necessary entitlements) will be required prior to development of the multi-family portion of the site.**
- ☒ That the applicant hereby agrees to hold the City of Hanford and all of its departments, officers, agents, and employees free and harmless of and from all claims of any kind or nature arising out of or by reason of the approval of this project.
- ☒ That approval of this project does not exempt compliance with all applicable sections of the Uniform Fire and Building Codes, Zoning Ordinance, Public Works Improvement Standards, and other City Ordinances.
- ☒ That the final map be submitted to the City Engineer and Community Development Department for compliance with the Tentative Subdivision Map approval prior to recording the final map.
- ☒ That all conditions of approval listed in this resolution by the City of Hanford be contained in the line drawing submitted for building permits.
- ☒ That in accordance with Title 16 of the Hanford Municipal Code, all conditions of this subdivision listed herein, and contained in subsequent improvement agreements, excluding the landscape district, must be completed and accepted for maintenance by the City Council prior to the final building inspection and occupancy permits being issued for the first house in the subdivision.
- ☒ That Vesting Tentative Tract 945 be developed consistent with the approved tentative tract map
- ☒ That the tentative tract is subject to the mitigations cited in the Mitigation Monitoring and Reporting Program

Right-to-Farm:

- ☒ Notwithstanding any other provision in this Chapter, agricultural operations are the principal and favored use of land in the areas of Kings County designated “Agricultural” in the Kings County General Plan and included in the agricultural zone districts of the Kings County zoning ordinance.

In order to implement Policy LU 8.2 and Program LU 8.2-A of the city of Hanford General Plan, there is hereby adopted in the city of Hanford a policy to (1) protect agricultural land, operations, and facilities from conflicting use due to the encroachment of incompatible, non-agricultural uses of the land in agricultural areas of the county, and (2) to advise developers, owners, and subsequent purchasers of property in the city of Hanford within one (1) mile of the city's urban limit line of the inherent potential inconveniences and discomforts often associated with agricultural activities and operations, including, but not limited to, equipment and animal noise; farming activities conducted on a 24-hour a day, 7-days a week basis; odors from manure, fertilizers, pesticides, chemicals, or other sources; the aerial and ground application of chemicals and seeds; dust; flies and other insects; and smoke from agriculture operations.

- ☒ That no lawfully established and otherwise lawful agricultural activity, operation, or facility, or appurtenances thereto, conducted or maintained for commercial agricultural purposes in a manner consistent with proper and accepted customs and standards as established and followed by similar agricultural operations in the same locality, shall be or become a nuisance, private or public, due to any changed condition in or about the locality, including, but not limited to, the encroachment of non-agricultural uses such as residences.
- ☒ In order to carry out the goals and policies of the city of Hanford General Plan, and the provisions of this chapter, the following notices and disclosures shall be required:
- ☒ All approvals for improvement or development of property including without limitation application for rezonings, land divisions, zoning permits, and residential building permits, on property in the city of Hanford within one (1) mile of the city's urban limit line, shall include a condition that notice and disclosure of this agricultural land use policy be given by the applicant, or the owner if different from the applicant. The applicant, or owner if different from the applicant, shall also acknowledge the contents of the notice and disclosure, which includes a description of the property the notice and disclosure pertains to, in the Official Records of the Kings County Recorder, and recorded at the applicant's own expense.

Zoning:

- ☒ That all requirements of the R-M Medium-Density Residential district shall apply, **except as modified through the Planned Unit Development**

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet

	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-foot wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.

Dwelling Units per Lot (Section 17.12.050)

- ☒ That the minimum site area per dwelling unit shall be 3,000 square feet, **except as modified through the PUD.**

Section	Requirement	Deviation Requested
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.

Coverage (Section 17.12.060)

- ☒ That the maximum coverage of a lot shall be determined by the combined building setback area requirements, accessory structure limitations, open space requirements, and off-street parking.

Building Setback Area (Section 17.12.070)

- ☒ That no structure shall be placed within a building setback area.
- ☒ The front building setback area shall be 15 feet from the front lot line for livable space and 20 feet for garages, carports, and other non-livable building space, **except as modified through the PUD.**
- ☒ That the rear building setback shall be 15 feet from the rear lot line, except where there is a landscape easement with a wall or fence on the rear of the lot, then the rear building setback shall be 20 feet, **except as modified through the PUD.**
- ☒ The rear building setback area shall be increased by 10 feet for buildings over one-story high.
- ☒ That where there is a landscape easement with a wall or fence on the street side of the lot the side yard setback area shall be measured from the easement area instead of the side lot line.

Section	Requirement	Deviation Requested
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet

Distance between Structures (Section 17.12.080)

- ☒ The minimum distance between structures shall be 10 feet, except as provided by the building code.

Height of Structures (Section 17.10.090)

- ☒ The maximum structure height shall be 35 feet.

Driveways (Section 17.12.110)

- ☒ That the width of a driveway and any paved area shall not cumulatively exceed 40% of the width of the lot's street frontage on which the driveway and any paved area faces. In the case of "L" or "U" shaped driveways or other configurations besides perpendicular driveways, the paved area of these driveways shall not exceed 50% of the front building setback area.
- ☐ That on corner lots, the driveway shall be located on the side of the lot adjacent to the interior lot line.
- ☐ That on key lots, the driveway shall be located on the side of the lot, which is not adjacent to the rear lot line of the adjacent reverse corner lot.

Usable Open Space (Section 17.12.150)

- ☒ That lots with four or less dwelling units shall provide for a usable open space area of a minimum 300 square feet per dwelling unit. The open space shall be a minimum of 15 feet side, **except as modified through the PUD.**

Section	Requirement	Deviation Requested
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-foot wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.

- ☒ That lots with five or more dwelling units shall provide for a usable open space area equal to five percent of the lot area. Where multiple lots that together make up a single development site, the

required open space may be combined into common open space areas that are accessible to all residents of the site.

Landscaping (Section 17.12.160 and 17.52)

- ☒ That landscaping be provided in accordance with Section 17.52 Landscape Standards of the Hanford Municipal Code.
- ☒ That except for driveways and approved parking areas all yard areas and setback areas visible from the street shall be landscaped with live plant materials and ornamentation common to the Hanford area or up to 100% of the yard and setback area may be landscaped with artificial turf and other permeable surfaces.
- ☒ That two street trees, a minimum 15 gallon size, shall be planted on all lots 6,000 square feet or greater. One of the two shall be planted 12 feet (no greater or no less) from the face of the front lot line street curb.
- ☒ That there shall be two additional street trees, a minimum 15 gallon size, planted on all corner lots in the parkway adjacent to the street side lot line.
- ☒ That all species of trees shall be selected from a list approved by the City Parks and Recreation Commission.

Off Street Parking: (Section 17.54).

- ☒ That the applicant shall provide two parking spaces per dwelling unit, one of which shall be covered.
- ☒ In the R-M Medium-Density Residential zone district, single-family dwellings shall provide a minimum of one covered and one uncovered parking space. Multi-family parking is required, as follows:

Table 17.54.040	
Number of Parking Spaces	
Land Use	Parking Space Requirement
Multifamily dwelling, Studio or SRO (no bedroom)	1 space per dwelling unit
Multifamily dwelling, 1-bedroom	1.5 spaces per dwelling unit; 50% of the spaces shall be covered parking
Multifamily dwelling, 2-bedroom	1.75 spaces per dwelling unit; 50% of the spaces shall be covered parking
Multifamily dwelling, 3 or more bedrooms	2 spaces per dwelling unit; 50% of the spaces shall be covered parking
Single- or multifamily dwelling specifically for seniors 55 years of age or older	1 space per dwelling unit or 1 space for every 4 beds

Required parking spaces may not be provided in any front, side, or rear building setback area. Except for driveways allowed in the front building setback area, all additional parking for residential uses shall be to the rear or side of the dwelling. No parking shall occur in the front or street side building setback areas. **Parking requirements for the multi-family portions of the development (Phase 4 and 5) shall be evaluated and required at the time of development. Site Plan Review will be required.**

Noise:

- ☒ That construction equipment is muffled and construction activities be limited to the hours between 7:00 a.m. to 10:00 p.m., Monday through Friday, unless the construction is within the enclosed structure or approved by the Community Development Department.
- ☒ That noise from fixed mechanical equipment, when measured at the property line, meets the standard of the Hanford Noise Element.

Rooftop Equipment HMC Section 17.50.100

- ☒ That all elevator housing and mechanical equipment located on the roof of any building shall be screened from adjacent views and contained within a completely enclosed penthouse or portion of the same building having walls and roofs with construction and appearance similar to the building.

Outdoor Lighting Standards HMC Section 17.50.140

- ☒ That all lights and light fixtures, except public street lights, shall be located, aimed or shielded so as to minimize light trespassing across property boundaries or skyward.
- ☒ That no lights or light fixtures shall flash, revolve, blink or otherwise resemble a traffic control signal or operate in such a fashion to create a hazard for passing traffic.
- ☒ That building mounted lighting fixtures shall be attached only to the walls of the building. The top of a light fixture attached to a building wall shall not be higher than the top of the building parapet or the top of the roof eave, whichever is lower.
- ☒ That canopy ceiling light fixtures shall be recessed or the sides of the lens area shall be shielded in order to eliminate emission of horizontal light.
- ☒ That mercury vapor lamps shall be a fully shielded fixture with all light directed on-site.
- ☒ That freestanding light fixtures shall not exceed eighteen (18) feet in height measured from the top of a light fixture to the adjacent grade at the base of the support for that light fixture.

Tents, Tarps, and Other Coverings (Section 17.50.130)

- ☒ That no front or side building setback area shall be covered by tents, tarps, cloth, fabric, or a wood or metal covering or structure except for the following:

- ☒ Standard window and door awnings
- ☒ Ornamental covers, such as a sidewalk or entry awning trellis, or other similar improvement intended as an improved passageway or for aesthetic purposes providing architectural integrity with the building to which it is attached. Supports shall be ninety (90) percent open and shall not be enclosed.

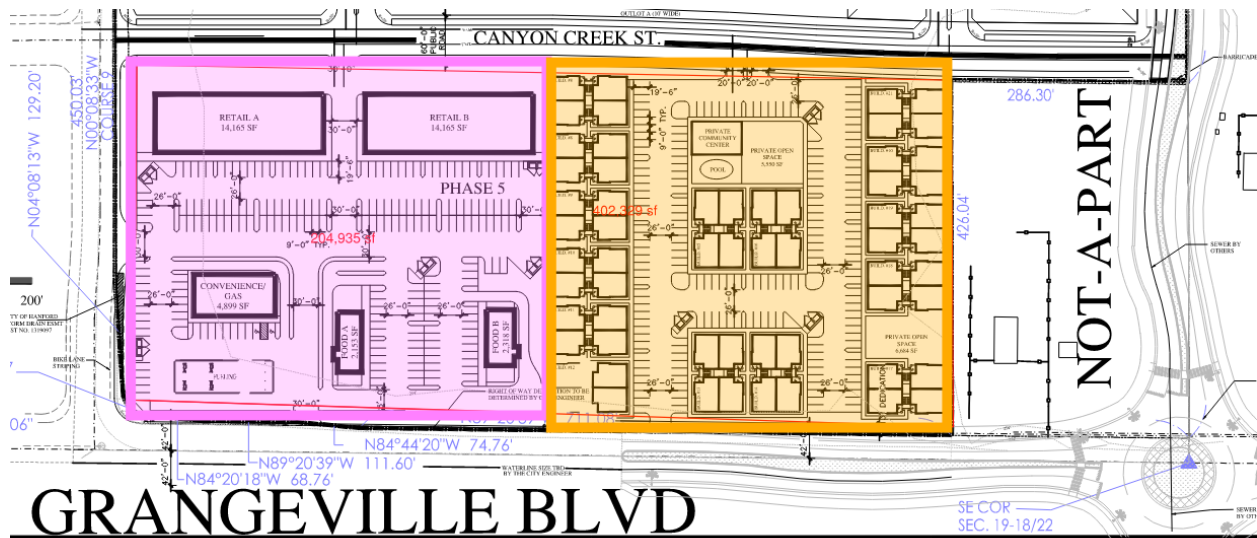
Dust Control:

- ☒ That the appropriate dust-control practices of the San Joaquin Valley Air Pollution Control District shall be implemented.
- ☒ That the any necessary permits be obtained through the San Joaquin Valley Air Pollution Control District.

MX-N Neighborhood Mixed Use zone district standards – Applicable to the commercial portion of Phase 5

General:

- ☒ **That the commercial development of the site, depicted in Phase 5 is considered conceptual. Site Plan Review (and any necessary entitlements) will be required prior to development of the commercial portion of the site.**
- ☒ That approval of this project does not exempt compliance with all applicable sections of the Zoning Ordinance, Public Works Improvement Standards, fees, or other City Ordinances.
- ☒ That all approved proposals of the applicant be conditions of development, if not mentioned herein.
- ☒ That the site be developed according to the approved site plan, titled Site Plan Review No. **2025-xx (conceptual included in TSM, final to be determined)** with minor modifications to be approved by the Community Development Department.
- ☒ That no expansion of the use which would tend to increase the projected scale of operations beyond the scope and nature described in this Site Plan Review shall be permitted except upon application for, and approval of, modification of this application according to all procedures and requirements thereof.
- ☒ That the Mixed Use Neighborhood zone districts shall be designed to provide and encourage walking within the commercial uses and between the commercial uses and the residential uses within the MX-N zone and other nearby residential uses. At a minimum, this shall be accomplished with a minimum 10-foot wide pedestrian path of travel between commercial sites and all residential sites within the MX-N zone.
- ☒ That between 25% and 75% of the contiguously zoned parcels in MX-N shall be reserved for residential use. (This has been satisfied by Phase 5 overall development proposal). The MX-N Neighborhood Mixed Use portion of the development is 5.45 acres. The entirety of Phase 5 of Tentative Tract 945 is approximately 9.23 acres. Therefore, the residential to commercial percentage is approximately 60% commercial to 40% residential.



Cultural Resources:

- ☒ That if cultural resources are discovered during construction or related activities, all work shall be halted and a qualified archeologist and the City of Hanford shall be notified. The find shall be properly investigated and appropriate measures are to be taken before construction may continue.

Building Setback Areas (Section 17.24.060)

- ☒ That the appropriate setbacks be maintained, as follows: **lot lines are subject to change based on final site configuration**
 - ☒ The front building setback area shall be 15 feet (front considered lot line along 9 1/4 Avenue).
 - ☒ The rear building setback shall be 15 feet from the rear lot abutting an R-M zone district (rear considered east lot line abutting not-a-part)
 - ☒ The side building setback shall be 15 feet from the side property line abutting an R-M zone and the public street.
 - ☒ The street side building setback shall be 15 feet.

Height of Structures (Section 17.24.080)

- ☒ That the maximum structure height shall be 35 feet.

Off Street Parking: (Section 17.54).

- ☒ That the applicant shall provide a minimum of 108 parking stalls for the commercial portion of the site, five of which are ADA-accessible, based on the ratio for an integrated shopping center 1 space per 350 square feet.

Calculation: 37,700 square feet of integrated retail space ÷ 350 square feet = 107.7

108 parking spaces required

Parking requirements will be verified during Site Plan Review. Conceptually, parking has been provided, as shown in the table below:

PARKING INFO

LAND USE	REQUIRED	PROVIDED
CONV./GAS	17	38
FOOD A	15	25
FOOD B	16	30
RETAIL A	48	61
RETAIL B	48	60

- ☒ That the standard parking space shall not be less than 18.5 feet in length and nine feet in width, exclusive of aisles and access drives (Section 17.54.110 A).
- ☒ That the maximum number of compact-car parking spaces is limited to 30 percent of the total parking spaces required. A compact parking space shall not be less than 16 feet in length and 8 feet in width, and marked for compact cars (Section 17.54.110 B. and C).
- ☒ There shall be no more than four compact spaces adjacent to each other.
- ☒ That parking for bicycles and low-emission vehicles shall be provided in accordance with the latest adopted version of the California Building Code (Section 17.54.190).
- ☒ In the commercial zone district, not less than five percent of the interior square footage of a parking area shall be landscaped with trees and other plant materials suitable for ornamentation. **Parking areas are to have one tree placed at every four lineal parking stalls.**

Usable Open Space: (Section 17.24.110).

- ☒ **That new commercial developments shall provide a common outdoor area, shaded sitting area for use by customers. The size of this area shall be a minimum 250 square feet per acre of site area.**
- ☐ That lots with four or less dwelling units shall provide for a usable open space are of a minimum 300 square feet per dwelling unit. The open space shall be a minimum 15 feet wide.

- ☐ That lots with five or more dwelling units shall provide for a usable open space area equal to five percent of the lot area. Where multiple lots that together make up a single development site, the required open space may be combined into common open space areas that are accessible to all residents of the site.

Signage: (Section 17.56).

- ☒ That any/all signs proposed for this development shall be subject to the requirements and prescribed in Chapter 17.56 of the Hanford Municipal Code. A separate application is required.

Number and Size of Permanent Signs by Zone		
Zone District	Building Signs	Freestanding Signs
C-N, C-R, C-S, C-H, MX-N, MX-C, and O zones	No limit to number of signs per business establishment. Allowed square footage per building frontage is cumulative. Establishments with primary building frontage less than 300 feet: 2 sq. ft. per 1 lineal foot up to a maximum 350 sq. ft. along primary frontage. 50 sq. ft. allowed regardless of frontage length. Secondary building frontage: 1 sq. ft. per lineal foot up to a maximum 200 sq. ft. per secondary frontage. 35 sq. ft. allowed regardless of frontage length. Sites within 100 feet of State Route 198 may count the frontage facing State Route 198 as their primary frontage for the purpose of calculating maximum sign size.	1 sign per establishment maximum. 40 sq. ft. maximum sign face size. 6 feet high maximum if set back 10 feet from property line. 5 feet high maximum if set back 5 feet from property line. 4 feet high maximum if set back 0 feet from property line. Sites with an integrated shopping center: 1 additional freestanding sign up to 350 sq. ft. Maximum height not greater than 1.5 times the average height of the building.

Landscaping: (Section 17.24.120 and 17.52).

- ☒ That landscaping shall be provided and permanently maintained in a setback area not less than 15 feet from a lot line adjoining a street.
- ☒ General Design Standards: the following features shall be incorporated into the design of the proposed landscape and shown on the required landscape plans:
- ☒ Publicly maintained landscape areas shall be separated from privately maintained landscape areas with, at a minimum, a four (4) inch wide concrete mow strip.

- ☒ Pedestrian access to sidewalks and structures shall be integrated with the design of landscaped areas.
- ☒ Landscape adjacent to driveways and parking areas shall be protected from vehicle damage through the provision of a minimum six (6) inch high and six (6) inch wide concrete curb.
- ☒ Concrete mow strips, when used, shall be a minimum of four (4) inches in width.
- ☒ Trees and shrubs shall be planted so that at maturity they do not interfere with utility lines and traffic safety sight areas.
- ☒ Trees and shrubs shall be planted and maintained in a manner that protects the basic rights of adjacent property owners, particularly the right to solar access.
- ☒ Trees planted within five (5) feet of sidewalks or curbs shall have an eighteen (18) inch by ten (10) foot long linear root barrier placed at each edge of the sidewalk or face of curb, centered on the tree.
- ☒ Plant materials. Plant materials shall be selected and installed in accordance with the following requirements:
 - ☒ The size of ten (10) percent of the trees to be planted shall be twenty-four (24) inch box or larger. The remaining trees shall be sized fifteen (15) gallons or larger.
 - ☒ The size of seventy (70) percent of plants and shrubs shall be at five (5) gallon or larger. The remaining plants and shrubs shall be sized one (1) gallon or larger.
 - ☒ The size of groundcover at planting shall be one (1) gallon or larger.
 - ☒ Groundcover shall be designed to have one hundred (100) percent coverage within two (2) years.
 - ☒ Drought tolerant plant material and climate appropriate species shall be emphasized in the design.
- ☒ That the landscaped area shall be planted with live and healthy plant materials suitable for screening/or ornamenting the site. Landscaped areas shall be watered by automatic systems and designed and developed in accordance with Chapter 12.08 and the most recent State Model Water Efficient Landscaped Ordinance.
- ☒ That no fence, hedge, or shrub shall be installed, planted, or maintained along a street frontage, which creates a traffic or pedestrian hazard.

Fencing and Walls: (Section 17.24.130)

- ☒ That a block wall with a minimum height of seven feet shall be provided along any side or rear lot line that abuts an R-L or PF zone district, **requested to be removed between the MX-N**

designation to the south and the R-M designation to the north through the PUD process. A block wall is required between the MX-N designation and R-M designation to the east (not-a-part)

- ☒ That no fence or wall shall be placed in front of or within any landscaped area located next to a street.
- ☒ That the open storage of materials and equipment attendant to a use shall be permitted only within an area surrounded or screened by a solid wall or fence seven feet minimum in height.
- ☒ That any proposed fencing on the site be maintained in good repair.
- ☒ That no fence or wall shall be placed within the public right-of-way.
- ☒ That a masonry fence exceeding three (3) feet in height shall require engineered footings and a building permit. All other fencing exceeding seven (7) feet in height shall require engineered post footings and a building permit.
- ☒ That no hedge, shrub, fence, or wall exceeding the three (3) feet in height, or four (4) feet in height if the upper one (1) foot is fifty (50) percent or more open shall be planted, placed, or maintained within the twenty-five (25) feet corner sight triangle of a corner lot, or along a front or street side property line where the hedge, shrub, fence, or wall creates a traffic or pedestrian hazard as determined by the Community Development Director.

Outdoor Lighting Standards (Section 17.50.140)

- ☒ That all lights and light fixtures, except public street lights, shall be located, aimed or shielded so as to minimize light trespassing across property boundaries or skyward.
- ☒ That building mounted lighting fixtures shall be attached only to the walls of the building. The top of a light fixture attached to a building wall shall not be higher than the top of the building parapet or the top of the roof eave, whichever is lower.
- ☒ That the canopy ceiling light fixtures shall be recessed or the sides of the lens area shall be shielded, in order to eliminate emission of horizontal light.
- ☒ That the height of freestanding light fixtures, including freestanding parking lot fixtures, shall be measured from the top of a light fixture to the adjacent grade at the base of the support for that light fixture and shall not exceed 30 feet.

Dust Control:

- ☒ That the appropriate dust-control practices of the San Joaquin Valley Air Pollution Control District shall be implemented.
- ☒ That the any necessary permits be obtained through the San Joaquin Valley Air Pollution Control District.

BUILDING DIVISION

TSM0012-24

Contact Building Official: Tom Webb (559) 585-2584

Concerning questions that you may have on the conditions listed below:

Soils:

1. That a preliminary soils report, prepared by a qualified soil's engineer, be provided to the Engineering and Building Departments prior to approval of Subdivision Improvement Plans.
2. That a final soils report, prepared by a qualified soils engineer, be provided to the Engineering Department and Building Division prior to acceptance of the subdivision improvements by the City or issuance of building permits or whichever comes first.
3. That the developer retains the design engineer to inspect and verify that grading within the subdivision was constructed as per the approved design, and a copy of the report be provided to the Building Division prior to building permit issuance.

Street Names and Addresses:

1. That street address for each lot, as provided by the Building Division, be included on the subdivision final map.
2. That street names, as shown on the tentative subdivision map, be included on the subdivision final maps.
3. That all single family dwellings within the subdivision have illuminated address numbers 2-¼ inches high or be within an illuminated area with 3-½ inch high address numbers installed on the front most part of the building leading to the entrance. In either case the address numbers shall be of contrasting colors with the background.
4. That all landscaping requires permits and must meet requirements at time of installation.
5. That a map must be provided to show existing streets names of surrounding subdivisions that have City maintained streets.



City of Hanford Fire Department

Fire Prevention and Community Risk Reduction Division

Fire Marshal

Nikkie Chamberland

City Of Hanford Fire Department Plan Review

Approval of all projects does not exempt compliance with all applicable sections of the adopted Fire Codes and local city ordinances. All fire protection systems must be installed and operational prior to occupying the building. All permits shall be issued and paid for prior to scheduling any inspections with the fire department. Please contact the building department for the submittal process. To schedule an inspection please contact the building department at 559-585-2580

The scope of work shall be clearly stated on all the plans submitted for the permit. All deferred submittals shall be listed on the building plan page. All deferred submittals are required to be submitted within 30 days of building permit issuance.

Plan review number: TSM0012-24

Address: NA

Plan Reviewer: Nikkie Chamberland

Date: 9-27-2024

The following are comments that are applicable and pertain to the plans submitted: This project must comply with the latest California Fire Code.

- Project shall meet the minimum fire flow requirements per Appendix B & C of the CFC 2022; Provide the fire flows within one year
- New and existing residences that have an automatic sprinkler system, proposed accessory dwelling units shall have an automatic sprinkler system. A separate fire department permit will be required.
- Fire Riser Room:
 1. a separate room that contains the Fire Riser shall contain one man door, the room shall be a 2-hour rated room with adequate spacing to perform

maintenance, riser room shall be properly labeled with 4" lettering with contrasting background and a knox box shall be installed to contain the riser room key, fire sprinkler coverage required, emergency lighting and illuminated lighting required. The riser shall be interconnected with the fire alarm

- When a sprinkler system is required with more than 21 heads, the system shall be monitored by a central monitoring station. Fire alarm and fire detection systems required by Chapter 9 of CFC, CBC, shall be installed per NFPA 72.
- Knox FDC Locking Caps are required on all Fire Department Connections. A fire department access road is required for facilities that are protected by fire sprinklers and are more than 400 feet away; on-site fire hydrants and mains shall be provided where required by the AHJ. Provide a letter of certification from a licensed soil engineer on non-paved all-weather roads that provide fire access, which shall support a 40,000-lb fire apparatus at a minimum.
- All dead-end access roads more than 150 must provide an approved turnaround or hammerhead and comply with city standards.
- All access roads shall not be less than 20 ft wide and 13 ft 6 inches
- Access road turning radius for fire apparatus/
 1. Inside turn: 20ft 10 inch
 2. Curb to Curb: 37 ft 3 inches
 3. Wall to Wal: 42 ft
- Temporary or permanent fire department access roads shall be constructed in accordance with City Standards ST-36. All weather access roads shall be in place prior to any combustible construction being brought onto the premises unless approved by the fire department.
- Additional Hydrants may be required, all hydrants shall be installed and accepted prior to combustibles being dropped on site. All hydrants shall be protected by bollards Hydrant spacing shall be as follows CFC 2022 Appendix C;
 1. Residential area- 500ft
 2. Commercial area-300ft
 3. A hydrant will be required within 50' of Fire Department connection.
 4. Provide a turning template on Plan Review
- No traffic calming devices shall be installed without the Fire Department's approval
- Areas identified as "**Fire lanes**" must be identified as such per requirements set forth in the California Vehicle Code Section 22500.1.
 1. **Access roads 20-26 feet in width:** Fire lanes shall be on both sides of the fire apparatus access roads.
 2. **Access roads 26 to less than 32 feet in width:** Fire lanes shall be on one side of the fire apparatus access roads.
 3. **Access roads 32 feet in width or more:** No fire lanes required.
 4. **Markings shall include "No Parking- Fire Lane"**
- Locked gates installed across fire department access roads:

1. **Manual gates** with a chain lock require a **Knox Padlock** to be installed on them, or a **Knox Box** shall be installed on the exterior of the gate and a key to the lock on the gate must be placed in the Knox Box. (See www.knoxbox.com for current models)
 2. **Electric Gates** shall be equipped with an electric **Knox Key Switch**, at the gate location.
 3. In case of a loss of power, electrically operated gates shall have a means of backup power or shall default in the open position for immediate fire department access.
 4. At no time shall the width of the fire department access road be reduced below **20 feet wide through or at any gates** along the fire department's emergency access roads due to protruding objects from gate supports, frames, signs, access booths, curbs, etc.
 5. Provide a Knox Box for all structures and gates. In accordance with the 2019 CFC 506.1. Hanford Fire Department shall approve the location.
 6. Ordering Knox Box products can be done directly at www.knoxbox.com. Click to choose your local fire department agency, enter "Hanford Fire Dept", and a list of products will populate for you to order.
- All address numbers shall be installed onto the building and shall be visible from the frontage street. The color of the address numbers shall be in a contrasting color to the building.

Size of Address Numbers:

- | | |
|--|-----------------|
| 1. Downtown area (existing buildings): | 4 inch numbers |
| 2. Buildings 20 ft. or less from the street: | 6-inch numbers |
| 3. Buildings 21- to 40-ft. from the street: | 8-inch numbers |
| 4. Buildings more than 40 ft. from the street: | 12-inch numbers |
- Commercial cooking
 1. Commercial cooking equipment that produces grease-laden vapors shall be provided with a Type I hood. ***A separate permit is required for the Type I hood.*** Contact the **Building** department for submittal information.
 2. All commercial cooking appliances creating grease-laden vapors shall have a K-Class fire extinguisher within 30 feet of cooking appliances in accordance with the most currently adopted edition of the CFC.
 3. Commercial cooking equipment that produces grease-laden vapors shall be provided with a Type I Hood. In accordance with the California Mechanical Code, an automatic fire extinguishing system is listed and labeled for its intended use.
 4. If the fire alarm is present, the hood system shall be interconnected with the fire alarm
 - Operational Fire Permit is Required
 - Any Special Event project shall comply with the 2019 edition of the California Fire Code, chapter 31 for tent structures, exiting, fire extinguishers, and other fire protection applications.

- Submit plans and information regarding high-piled storage, rack storage, storage of combustible commodities, hazardous materials, and any processes regulated by the Uniform Fire Code
- Fire permits are required for all underground firelines, overhead sprinklers, and fire alarms. These are all separate permits and will be charged accordingly. All deferred submittals shall be submitted, stamped, and approved prior to combustible on site.
- Refer to the 2022 California Fire Code in governing codes
- Shell buildings shall provide a description of the tenant and/or storage of the building.
- A fire pump may be required if the building is over 2 stories in height in a commercial setting.

PUBLIC WORKS DEPARTMENT

Contact Assistant Engineers: Steve Coodey or Robert Buchanan
Concerning questions that you may have on the conditions listed below:

Tentative Tract 945- Copper Ridge Development

Maps and Plans:

1. That the developer submit to the City Engineer a set of construction plans on 24" x 36" sheets for all required improvements. Plans shall be prepared by a registered civil engineer, and shall include a drainage and utility plan identifying sizes and location of sanitary sewer, storm drainage and water mains, curbs, gutters, sidewalks, masonry wall, street improvements and other infrastructure required for development. All plans shall be approved by the City Engineer and all other involved agencies before the release of the building permits.
2. That the developer shall submit to the City Engineer a set of construction plans on 24" X 36" size sheets for all required improvements. The plans shall be prepared by a licensed civil engineer and shall include a site plan showing all on-site and off-site improvements, including but not limited to, sanitary sewer, storm drainage, and water system infrastructure, refuse enclosure locations, public street & parking lot improvements, landscape & irrigation systems and all other improvements as required by the project conditions of approval and the City of Hanford Standards and Specifications. Improvement plans shall include all City of Hanford Construction Standard Detail's pertinent to the project. Plans must be approved by the City of Hanford and any other affected agencies before issuance of building or encroachment permits.

Easements:

1. That easements be designated on the recorded final map as required by the utility companies and where needed for providing service to streetlights as designated by the City of Hanford Engineering Department.
2. That the developer shall acquire an easement for temporary storm basin purposes to be dedicated to the City where necessary to facilitate installation of storm drainage facilities connecting the portion of the development to the proposed storm drainage basin. Easements required to serve and maintain the temporary storm drainage basin may include, but are not limited to, access and storm drain pipeline easements. Easement locations and widths shall be approved by the City Engineer and dedicated on the Final Map or by separate instrument.
3. That an offsite Sanitary Sewer Easement shall be obtained by the developer for the installation of the 9th Avenue sanitary sewer main from the south development boundary through the Not-A-Part, to the intersection of 9th Avenue and Grangeville

Boulevard. Easement locations and widths shall be approved by the City Engineer and dedicated on the Final Map or by separate instrument.

4. That all easements for irrigation ditches and/or irrigation pipelines be legally abandoned or relocated to the satisfaction of the City Engineer prior to acceptance of the subdivision improvements.
5. That all proposed landscape/public utility easements as shown on the tentative map be dedicated to the City and be included on the subdivision final map. Additional landscape or public utility easements determined necessary by the City Engineer or City Planner during review of the improvement plans shall also be dedicated with the Final Map, as required by the City.

Dedications:

1. That all proposed streets, street extensions and easements as shown on the tentative map be dedicated to the City with the subsequent final map(s). The streets/street extensions are to be dedicated as public right-of-way, and any alterations of existing utilities be the responsibility of the developer.
2. That developer dedicate to the City, additional right of way along the east side of 9 ¼ Avenue, between Grangeville Boulevard and Leland Avenue to facilitate construction of the development frontage improvements as approved on the Tentative Map.
3. That the developer dedicate to the City, additional right of way of Grangeville Boulevard between the eastern project boundary and 9 ¼ Avenue to facilitate construction of the development frontage improvements as approved on the Tentative Map.
4. That the developer dedicate to the City, right of way along the Leland Avenue project frontage to facilitate construction of the development frontage improvements as approved on the Tentative Map.
5. That the developer dedicate to the City, right of way along the 9th Avenue property frontage to facilitate construction of the development frontage improvements as approved on the Tentative Map.
6. That developer dedicate an easement to the City, for the proposed of an onsite drainage basin for Tract 945 drainage purposes.
7. That the developer shall dedicate all Outlots to the City that shall be maintained by the Community Facilities District (CFD). Additionally, at entrances to the development where roads transfer from collectors/arterials to local streets and there is side lot frontages, the outlots need to extend around these side lot frontages (ending where the side lot meets the beginning of the curve) and include block walls.

These outlots must fully extend around the side lot frontages, the current configuration on the proposed Tentative Map fails to indicate the entire outlot area.

Street Improvements:

1. That the improvements consisting of sanitary sewers, storm sewers, water mains, communication conduit, concrete curbs, gutters, sidewalks, street lights, street subgrading and surfacing, signage and striping and all other improvements be installed in accordance with Chapter 16.24 "Improvements" of the Hanford Municipal Code, the City of Hanford's Active Transportation Plan (ATP), and this resolution pertaining to subdivision improvements in effect at the time of filing the tentative map.
2. That all corner lots meet the requirements California's daylighting law ([Assembly Bill 413](#)) prohibits parking within 20 feet of a crosswalk, marked or unmarked, to improve visibility and pedestrian safety. This statewide law, which went into effect January 1, 2024, began being enforced with citations on January 1, 2025. The goal is to give drivers more time to see pedestrians and cyclists approaching or crossing intersections, regardless of whether the curb is painted red
3. That all streets within the subdivision shall be developed as Residential Street per City Standard Details ST-32 and ST-39 with a traffic index of 6, except the following:
 - a) 9 ¼ Avenue shall be developed as a Minor Collector street with an 68 foot right of way width in conformance with City Standard. ST-17 and ST-26 and the City of Hanford's ATP, and a traffic index of 9. Developer shall be required to construct the remaining width of right of way on the east side of 9 ¼ Avenue from Grangeville Boulevard to Leland Avenue.
 - b) Developer shall construct the extension of Leland Avenue as a Minor Collector street with a 68' ultimate right of way width between 9 ¼ Avenue and 9th Avenue in conformance with City Standard ST-17 and ST-26 and the City of Hanford's ATP, and a traffic index of 9. Developer shall construct Leland Avenue to the centerline (half width) of ultimate width creating 2-eleven foot travel lanes. An asphalt dike shall be installed along the westbound travel lane edge of pavement for the full length of the Leland Avenue project frontage. To align the half width street section with the existing lane alignment established on the west side of 9 ¼ Avenue, the developer shall remove the existing lane striping and reinstall a temporary transition stripe in conformance with the Highway Design Manual to align with the travel lanes on the east side of the intersection. Stop signs, stop limit lines and stop legends shall be installed in all directions of the Leland Avenue and 9 ¼ Avenue intersection per City Standard Detail ST-47.
 - c) Developer shall construct 9th Avenue as an Arterial Street with a 100 foot ultimate right of way width in conformance with City Standard Detail ST-20 and the City of Hanford's ATP with a traffic index of 11. Developer shall be required to construct half of the raised median width for the full

length of the 9th Avenue project frontage in conformance with City Standard Detail CO-17 and CO-18. Turn pockets associated with the ultimate raised median design shall be delineated using 48" high visibility delineators in conformance with CA.M.U.T.C.D. To allow for northbound and southbound traffic on 9th Avenue, a temporary centerline striping shall be installed. A timber barricade per City Standard Detail GE-59 shall be installed on 9th Avenue at the south project boundary. Additionally, the developer will be required to coordinate with the ongoing CIP project on 9th Avenue. The coordination will include, but not be limited to, the ultimate road alignment and location requirements of the CIP Engineering Division.

- d) Grangeville Boulevard shall be developed as an Arterial Street with a modified right of way width of 84 foot in conformance with City Standard Detail ST-17 and ST-20 and the City of Hanford's ATP, with a traffic index of 11. Developer shall be required to construct the remaining width of right of way on the north side of Grangeville Boulevard between 9 ¼ Avenue and the eastern boundary of the project. A pavement transition shall be required beyond the east project boundary. The developer shall in good faith attempt to obtain an easement for purposes of pavement transition, and provide documentation of such attempt. Additionally, the developer will be required to coordinate with the ongoing CIP project on Grangeville Boulevard. The coordination will include, but not be limited to, the ultimate road alignment and location requirements of the CIP Engineering Division.
3. That streetlights be installed throughout the interior of the development and along project frontages in conformance with City standard GE-56. Streetlights shall be located as designated by City Engineer.
 4. That the development is subject to a transportation mitigation impact fee as required by City Ordinance No. 90-09 and any revisions thereof. Developer shall be entitled to a credit against subject development fee for oversizing of roadway improvements for increased traffic index constructed by developer within Grangeville Boulevard, 9 ¼ Avenue, Leland Avenue and 9th Avenue. Additionally, the developer shall be entitled to credit against the construction of 9th Avenue as determined by the City of Hanford Development Impact Fee Study dated September 2019.

Backup Parkway Improvements:

1. That the developer shall design and construct the following improvements along 9 1/4 Avenue, Leland Avenue, 9th Avenue and Grangeville Boulevard frontages of proposed subdivision.
 - a. A six (6) ft. minimum high ornamental, masonry block fence with continuous footing. Wall shall be treated with an anti-graffiti repellent. (Excluding Grangeville Boulevard). A blockwall easement will be required in any locations where a blockwall footing or foundation encroaches on private property.

- b. A sidewalk in conformance with City Standards and the City's adopted ATP.
 - c. Soil preparation, automatic irrigation and landscaping.
 - d. Landscape plans for right-of-way and a 10 ft. wide landscape easement.
2. The species of tree and plants are to be selected from a list approved by the City Street Tree Commission.
 3. That the design location of the masonry wall and landscape plans shall be approved by the Community Development Department and City Engineering Department prior to recording a subdivision final map. And the approval of block wall and landscape improvements shall be submitted with initial submittal of project improvement plans.
 4. All above ground pedestals and other utility boxes shall be located between back of sidewalk and masonry wall/fence.

Existing Wells:

1. That all existing wells on the property be abandoned in accordance with State of California standards.

Restricted Access:

1. That a one-foot reservation strip be established at the end or sides of the roads abutting unsubdivided property, and dedicated on the applicable subdivision final maps.
2. That all access be restricted from the 9th Avenue, 9 ¼ Avenue and Leland Avenue right-of-way for lots backing onto said rights-of-way. Side-lot access shall also be restricted for the following Lots: 369, 337, 336, 231, 241, 280, 299, 300, 310, 311, 101 and 102. A restricted access designation shall be depicted on all recorded final maps.
3. That the developer construct a barricade to City Standard Detail GE-59 at the end of each future through streets.

Sewer Improvements:

1. That the developer's engineer provide a sanitary sewer master plan complete with calculations for the entire subdivision for City review and approval prior to recording a subdivision final map for the first phase of development. Consideration shall be given for future areas of development located adjacent to proposed subdivision per the City Sanitary Sewer Master Plan.
2. That a minimum 12-inch diameter sanitary sewer main be installed within 9th Avenue between Leland Avenue and the southern property boundary. Applicant shall be entitled to a reimbursement for over sizing in accordance with City Municipal Code Section 13.08, or any revisions thereof.

3. That a minimum 12-inch diameter sanitary sewer main be installed within 9th Avenue between the southern property boundary and Grangeville Boulevard. Applicant shall be entitled to a reimbursement in accordance with City Municipal Code Section 13.08, or any revisions thereof.
4. That developer shall install a 12-inch sewer main in Grangeville Boulevard from 9 ¼ Avenue to project flow to a future sanitary sewer main planned for the future 9th Avenue alignment. Applicant shall be entitled to a reimbursement for over sizing in accordance with City Municipal Code Section 13.08, or any revisions thereof.
5. That a minimum 12-inch diameter sanitary sewer main be installed within Leland Avenue between 9 ¼ Avenue and 9th Avenue. Applicant shall be entitled to a reimbursement for over sizing in accordance with City Municipal Code Section 13.08, or any revisions thereof.
6. That developer is entitled to a reimbursement agreement in accordance with City Municipal Code section 13.08 for sanitary sewer main improvements constructed within 9th Avenue, Grangeville Boulevard and Leland Avenue, which also provides a benefit to others. Costs for sanitary sewer main improvements installed within the streets referenced here, if applicable, shall be per the City of Hanford Development Impact Fee Study document dated September of 2019. Reimbursement cost shall be per the Fee Study at time of improvement installation and operational acceptance.
7. The Copper Ridge development will not be issued occupancy until a sewer trunk line is installed within 9th Avenue from Grangeville Boulevard to E. Lacey Boulevard.

Storm Drainage Improvements:

1. That the developer's engineer provide a storm drainage master plan complete with calculations for the entire subdivision for City review and approval prior to recording a subdivision final map for the first phase of development. The Master Plan will determine the ultimate temporary basin location built to City Standard.
2. That the developer is required to obtain an easement and complete construction of the temporary storm drain basin with the first phase of the subdivision. The basin shall be designed in conformance with the City of Hanford's Storm Drainage Design Criteria specifications and shall include a six foot (6') high chainlink fence with privacy slats per City Standard Detail GE-23. A 24' wide drive approach per City Standard Detail CO-41 and access gates per City Standard Detail GE-26 shall also be installed.
3. That developer is required to comply with the State of California Water Resources Control Board requirements specifically related to the National Pollution Elimination System Permit process.

Water System:

1. That the developer's engineer provide a Water System Master Plan complete with calculations for the entire subdivision for City review and approval prior to recording

a subdivision final map for the first phase of development. Consideration shall be given for future areas of development located adjacent to proposed subdivision, as shown on the city Water Master Plan.

2. That a minimum 18 inch diameter water main and appurtenances, be extended along the Grangeville Boulevard project frontage. Applicant shall be entitled to a refund for water main oversizing in accordance with City Municipal Code Section 13.04. The new water main shall connect with the existing water main on 9 ¼ Avenue and shall include a blow off assembly per City Standard Detail WA-26 at the eastern terminus.
3. That a minimum 12 inch diameter water main and appurtenances, be extended along the Leland Avenue project frontage. Applicant shall be entitled to a refund for water main oversizing in accordance with City Municipal Code Section 13.04. The new water main shall connect to the existing water main at the intersection of Leland Avenue and 9 ¼ Avenue.
4. As determined by results shown in the Hydraulic Capacity Study provided by Akel Engineering, the developer shall replace approximately 550 LF of existing 8" water main and install the same LF of 10" water main on 9 ¼ Avenue from Grangeville Boulevard to approximately 550' to the north of Grangeville Boulevard.
5. That a minimum 12 inch diameter water main and appurtenances, be extended along the 9th Avenue project frontage. Applicant shall be entitled to a refund for water main oversizing in accordance with City Municipal Code Section 13.04. The new water main shall connect to the new water main at the intersection of Leland Avenue and 9th Avenue and shall include a blow off assembly per City Standard Detail WA-26 at the southern terminus.
6. That all existing water wells be abandoned in conformance with State of California Department of Health Standards.

Assessment District:

1. That the developer enters into an agreement for the formation of a Community Facilities District (CFD) for the maintenance of landscaping and outlots, decorative block wall/ fencing, roadways, streetlights, curb and gutter, sidewalk, signage, storm drain system and temporary basin and a second CFD for emergency services.
2. That prior to funds of the tax assessment district being obtained, the developer will be responsible for the maintenance of all items listed above.

Special Requirements:

1. That a right-to-farm provision be recorded with the recording of the final subdivision map to insure that future residents of the homes in the subdivision are aware of the adjacent agricultural uses and their right to continue to operate.
2. That each lot owner within Tract No. 945 shall care for and maintain the trees and lawn area located in the parkway in front of their lot(s). For corner lots, the lot owner shall also care for and maintain the parkway trees and lawn area along the street side of their lot. All species of trees shall be selected from a list approved by the City

Street Tree Commission. The parkway is defined as that land area located between the street curb and the public sidewalk.

3. That the tree(s) and lawn area are to be properly pruned, mowed, sprayed, watered and fertilized on a regular on-going basis in order to preserve the health and life of the tree(s) and lawn area.
4. That should the tree(s) and lawn area become damaged, severely pruned, neglected, removed or die, the lot owner shall replace said tree(s) and lawn area within thirty (30) days after the date of written notice from the City of Hanford. The tree(s) shall be replaced with a 15 gal. size tree of the same species that was originally planted. The lawn area shall be replaced with lawn. Rocks, bark, ground cover, plants or paving are not allowed in the parkway
5. That the "NOTICE, DISCLOSURE, ACKNOWLEDGMENT AND AGREEMENT OF CONTINUED CARE AND MAINTENANCE BY LOT OWNER OF THE TREES AND LAWN AREA PLANTED IN THE PARKWAY" be recorded concurrent with the recording of the subdivision final map to insure that future residents of homes in the subdivision are aware of the obligation to maintain the landscaping within the park strip. Each lot owner is to be provided a copy of said Notice, Disclosure, Acknowledgement, and Agreement, attached as in Exhibit B.
6. That Lots established as multi-family, particularly Lots 351-387, shall design each parcel to have one (1) shared access drive approach equaling 24' in width per City Standard Detail CO-41. If separate drive approaches are necessary, a 12' wide drive approach per City of Hanford Standard CO-38 for each garage will be required with a minimum of 22' of full height curbing in between the drive approaches. Drive approaches shall not exceed 40% of frontage.

Impact Fees:

Impact fees related to single family residential, multi-family and commercial will be assessed separately. Multi-family and Commercial must be approved through site plan review as individual project.

1. That development is subject to a Police Development Impact Fee as required by City Ordinance No. 98-14, and any revisions thereof. Fee payable with each building permit.
2. That development is subject to a Fire Development Impact Fee as required by City Ordinance No. 98-14, and any revisions thereof. Fee payable with each building permit.
3. That development is subject to a Park Development Impact Fee as required by City Ordinance No. 90-10 and any revisions thereof. Fee payable with each building permit.

4. That development is subject to a Transportation mitigation impact fee as required by City Ordinance No. 90-09 and any revisions thereof. Fee payable with each building permit.
5. That the development is subject to a Wastewater System Development Impact fee as required by City Ordinance No. 98-14, and any revisions thereof. Fee payable with each building permit.
6. That development is subject to a Storm Drainage Development Impact fee, as required by City Ordinance No. 98-14, and any revisions thereof. The development will be constructing a temporary storm basin and the City will acquire property in the future for a regional storm basin that will acquire the storm water from this development.
7. That development is subject to a Water System Development Impact Fee as required by City Ordinance No. 98-14 or any revisions thereof. Fee payable with each building permit.
8. That development is subject to a Refuse and Recycling Development Impact Fee as required by City Ordinance No. 05-16 or any revisions thereof. Fee payable with each building permit.
9. That development is subject to a Sanitary Sewer area of benefit assessment fee in accordance with City Ordinance No. 92-03 and any revisions thereof. Subject fee shall be paid prior to recording a subdivision final map.

General Comments:

1. The approval of this Tentative Map does not authorize construction or development of any multifamily or commercial uses shown on the map. Prior to any development of these areas, the applicant shall obtain Site Plan Review approval in accordance with the Hanford Municipal Code and all other applicable City regulations. Site Plan Review may include review and approval by the Planning Commission and/or City Council, as required at the time of application. If future subdivision of any multifamily or commercial parcel is proposed, additional Tentative and Final Maps or Parcel Maps shall be required in compliance with the California Subdivision Map Act (Government Code §66410 et seq.) and the Hanford Subdivision Ordinance.
2. Per the applicant's direction, the area designated for the temporary storm drainage basin shall not be further subdivided as part of the Final Maps for this subdivision. At such time as the City establishes a regional storm drainage basin to serve this area, any proposal to develop or reuse the temporary basin site shall be required to resubmit for Site Plan Review in accordance with the Hanford Municipal Code and all applicable City regulations. Upon resubmittal, the project shall be subject to all conditions and requirements in effect at that time, including the preparation and approval of a new Tentative Map(s) and any necessary Final or Parcel Maps, consistent with the California Subdivision Map Act (Government Code §66410 et seq.) and the Hanford Subdivision Ordinance.

3. Block wall easements shall be provided wherever block wall footings or foundations encroach onto private property, as determined necessary by the City Engineer. Such easements shall be dedicated on the Final Map.
4. A Declaration of Temporary Building Restrictions shall be recorded concurrently with the Final Map, encompassing the area designated for the temporary storm drainage basin. The restriction shall prohibit any building or structural development within the designated basin area until such time as the City establishes a regional storm drainage facility and the property is subsequently entitled for development through the required Site Plan Review and Subdivision Map Act processes. The document shall be prepared in a form acceptable to the City Attorney and City Engineer and shall be recorded with the Kings County Recorder's Office at the time of final map recordation.

AMENDED RESOLUTION 2025-32

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF HANFORD RECOMMENDING APPROVAL TO THE CITY COUNCIL OF TENTATIVE TRACT 945, A REQUEST TO SUBDIVIDE 83.61 ACRES INTO A 650-UNIT MULTI-FAMILY (300 UNITS) AND SINGLE-FAMILY (350 UNITS) RESIDENTIAL SUBDIVISION AND A 5.45-ACRE NEIGHBORHOOD MIXED USE SITE WITH A PLANNED UNIT DEVELOPMENT OVERLAY IN AN AREA PREZONED R-M MEDIUM- DENSITY RESIDENTIAL AND MX-N NEIGHBORHOOD MIXED USE.

THE PROJECT IS LOCATED NORTH OF GRANGEVILLE BOULEVARD AND EAST OF 9 ¼ AVENUE (APNS 014-143-069 AND 014-143-078)

At a regular meeting of the Planning Commission of the City of Hanford duly called and held on October 14, 2025, by motion of Commissioner _____, and seconded by Commissioner _____ and duly carried, the following resolution was adopted:

WHEREAS, Tentative Subdivision Map No. 945, **Exhibit A**, a request to subdivide 83.61 acres into a 650-unit multi-family (300 units) and single-family (350 units) residential subdivision and a 5.45-acre Neighborhood Mixed Use site with a planned unit development overlay in an area proposed to be prezoned R-M Medium-Density Residential and MX-N Neighborhood Mixed Use has been reviewed by the Planning Commission of the City of Hanford, in accordance with Title 16 of the Hanford Municipal Code; and

WHEREAS, the project is the project is located north of Grangeville Boulevard and east of 9 ¼ Avenue (APNs 014-143-069 and 014-143-078); and

WHEREAS, all notices related to conducting public hearings were prepared and published in compliance with State Government Code; and

WHEREAS, all affected public utility companies, various governmental department agencies, and the Planning Commission staff have given careful consideration to this tentative subdivision map and have made recommendations thereon; and

WHEREAS, the Initial Study, Mitigated Negative Declaration No. 2025-73 (SCH# 2024121093) and all notices related thereto were prepared in compliance with the California Environmental Quality Act (CEQA) and the City of Hanford Municipal Code and Policies; and

NOW THEREFORE, BE IT RESOLVED, that the Planning Commission hereby recommends that the City Council of the City of Hanford find that no significant environmental impacts would result from the proposed project with the incorporation of mitigation measures, adopt a Mitigation and Monitoring Reporting Program, attached as **Exhibit B**, and certify that Mitigated Negative Declaration No. 2024-57 was prepared consistent with CEQA and City of Hanford Environmental Guidelines.

BE IT FURTHER RESOLVED, that the Planning Commission has made the following findings pursuant to Section 16.04.010 of the Hanford Subdivision Ordinance, Section 66474 of the Subdivision Map Act and Hanford's Zoning Ordinance:

1. Consistency Finding:

ANALYSIS: That a consistency finding can be made, because the proposed subdivision map is consistent with the State Subdivision Map Act, General Plan (as proposed to be amended through General Plan Amendment No. 0009-24), Zoning Ordinance, and Subdivision Ordinance. The subdivision is consistent with the General Plan Designation for the property, as amended through General Plan Amendment No. 0009-24 (for which the required findings can be satisfied), Medium-Density Residential and Neighborhood Mixed Use. All requirements of the Neighborhood Mixed Use zone and the R-M Medium-Density Residential zone district are satisfied, except where expressly modified through Planned Unit Development No. 0037-24 for lot area, lot dimensions, site area per dwelling unit, building setbacks, and usable open space, as set forth below:

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet
	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-foot wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.
§ 17.24.130 Screening, fences, and walls.	A block wall with a minimum height of seven (7) feet shall be provided along any side or rear lot line that abuts an R-L, R-M, R-H, OR, PF, AP, or CO zone district.	Deviation request to remove the block wall requirement between the MX-N and R-M zone district to allow for integration and mixed uses between sites.

2. Design Finding:

ANALYSIS: That the design and improvement of the subdivision is consistent with the State Subdivision Map Act, General Plan (as amended through General Plan Amendment No. 0009-24), Zoning Ordinance, and Subdivision Ordinance. The subdivision is consistent with the General Plan Designation for the property, as amended through General Plan Amendment No. 0009-24 (for which the required findings can be satisfied), Medium-Density Residential and Neighborhood

Mixed Use. All requirements of the Neighborhood Mixed Use zone and the R-M Medium-Density Residential zone district are satisfied, except where expressly modified through Planned Unit Development No. 0037-24 for lot area, lot dimensions, site area per dwelling unit, building setbacks, and usable open space, as set forth below:

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet
	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-feet wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.
§ 17.24.130 Screening, fences, and walls.	A block wall with a minimum height of seven (7) feet shall be provided along any side or rear lot line that abuts an R-L, R-M, R-H, OR, PF, AP, or CO zone district.	Deviation request to remove the block wall requirement between the MX-N and R-M zone district to allow for integration and mixed uses between sites.

3. Type of Development Finding:

ANALYSIS: That the site is physically suitable for the single-family and multi-family residential and Neighborhood Mixed-Use development proposed under Tentative Tract 945. The submitted floorplans demonstrate the ability for the proposed residences to be situated on the proposed lots. All parcels have adequate street frontage on a public street and buildable lot configurations.

4. Density Finding:

ANALYSIS: That a density finding can be made, because the site is physically suitable for the proposed density of development. The General Plan, as amended through General Plan Amendment No. 0009-24, prescribes a density range between seven and 20 units per gross acre, with an expected average of nine units per gross acre for the Medium-Density Residential land use designation. The project has a density of 8.31 dwelling units per gross acre.

5. Environmental Finding:

ANALYSIS: That a in accordance with the California Environmental Quality Act (CEQA), General Plan Amendment No. 0009-24, Prezone No. 0013-24, Tentative Tract 945, and Planned Unit Development No. 0037-24 were evaluated in an Environmental Assessment/Initial Study. Based on the review, it was determined that the proposed project would not result in a significant adverse impact on the environment with the incorporation of mitigation measures, therefore Mitigated Negative Declaration No. 2025-73 has been prepared, attached as **Attachment 6**.

6. Public Health Finding:

ANALYSIS: That the design of the subdivision and type of improvements are not likely to cause serious health problems. The City of Hanford Building Division is responsible for ensuring that future construction of the site follows adopted building codes, thus reducing exposures to accidents to the general public. Consultation was sent for Tentative Tract 945 to interested agencies, including the County Health Department, Public Works Department, Fire Department, and Building Division. Any improvements or mitigations required for public health and safety were applied to the proposal and required in the conditions of approval and the mitigation monitoring and reporting program.

7. Improvements and Access Findings:

ANALYSIS: That the design of the subdivision and type of improvements will not conflict with easements acquired by the public at large for access through or use of the property within the proposed subdivision. All easements will be designated on the final subdivision map, as required by the utility companies and where needed for providing service to streetlights and landscape improvements, as designated by the City Public Utilities and Engineering Division.

THEREFORE, BE IT RESOLVED that the Planning Commission of the City of Hanford hereby recommends approval of Tentative Tract 945 to the City Council, subject to the conditions of approval, attached as **Exhibit C**, and the following:

1. That this tentative subdivision map becomes null and void after 24 months has elapsed from the date of approval, if the above conditions have not been satisfied or bonded for, and a final map recorded. A time extension may be granted by the Commission upon written request by the applicant. The time extension, if approved, will be subject to the improvement standards and fees in effect at the time the extension for the tentative subdivision map is granted.

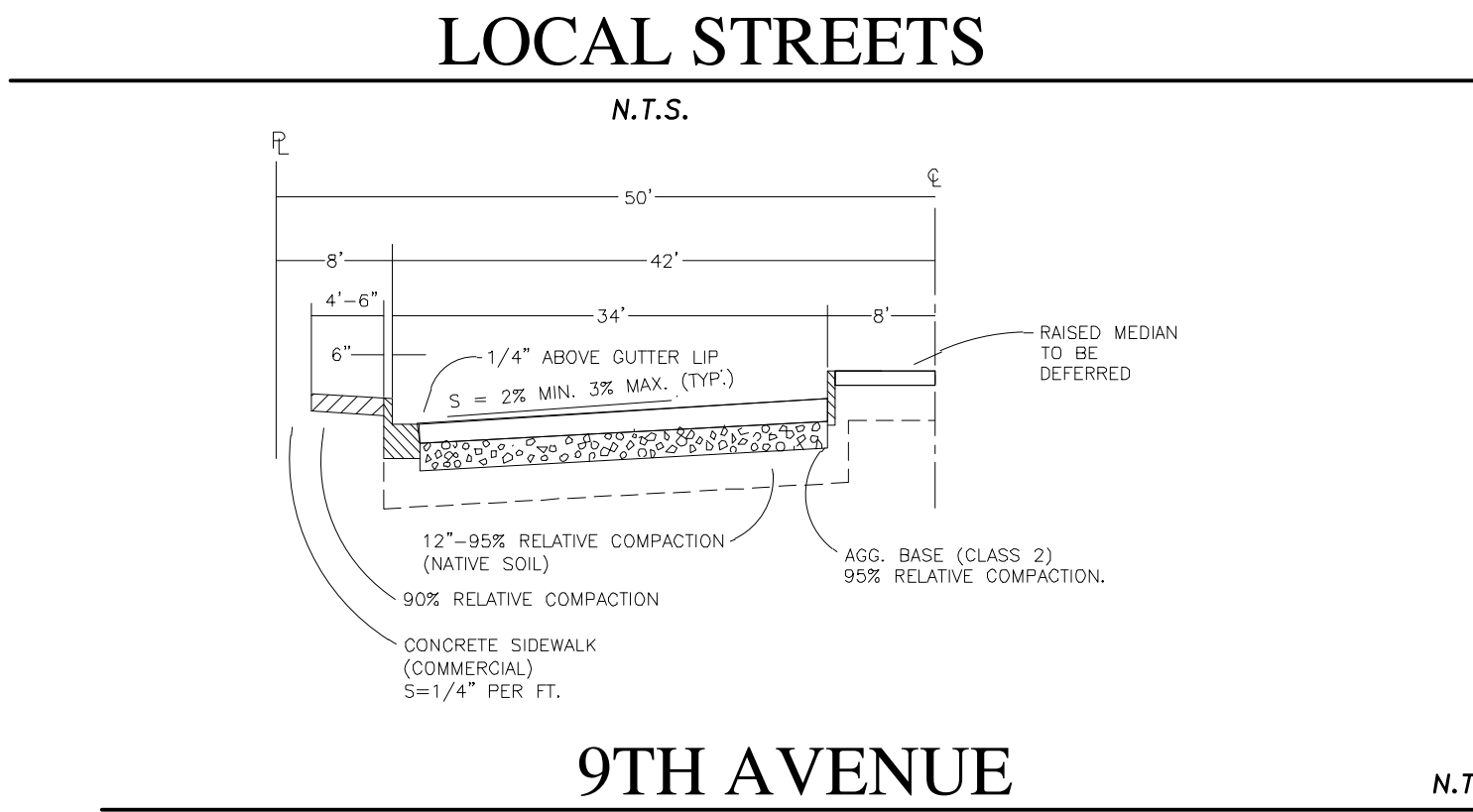
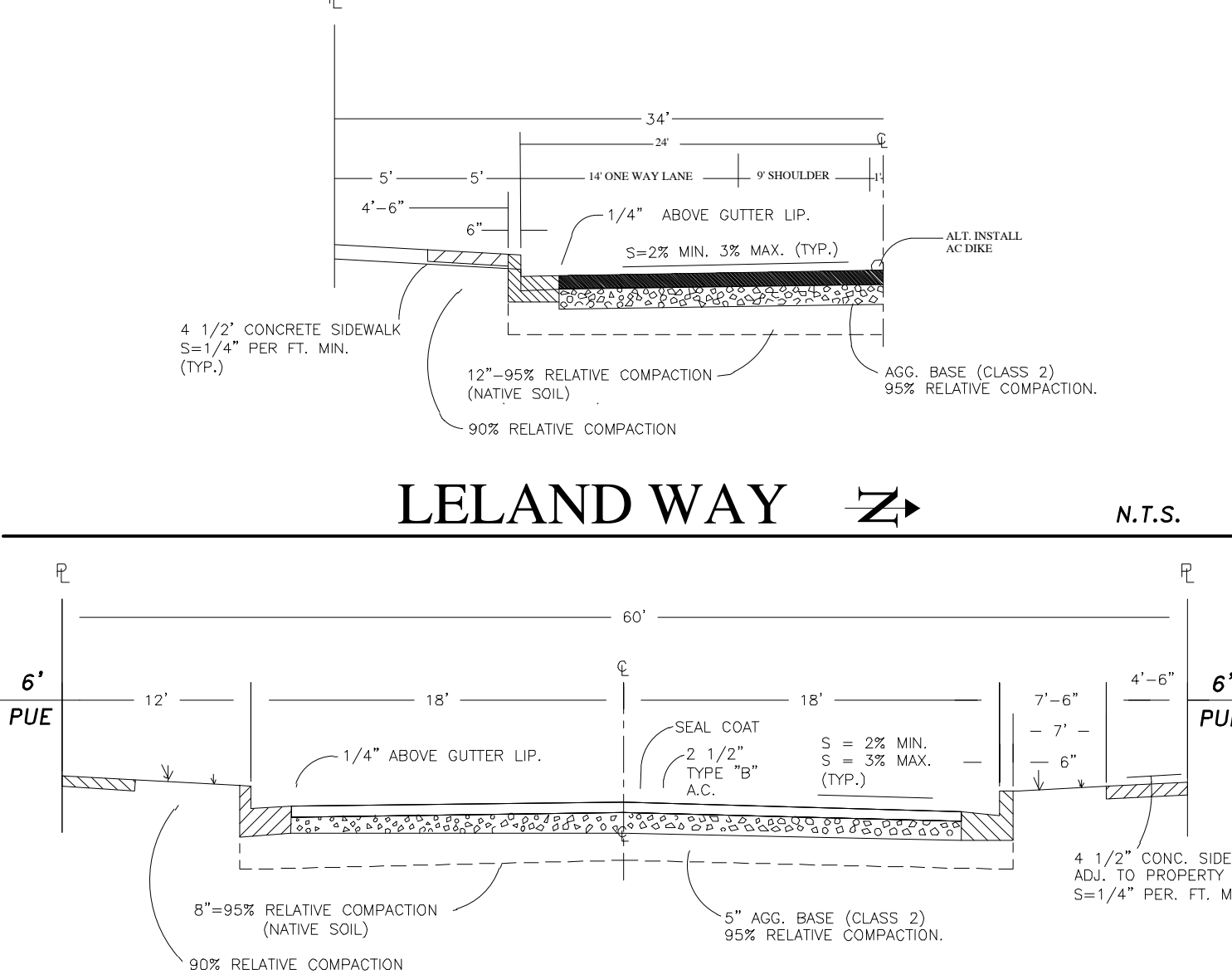
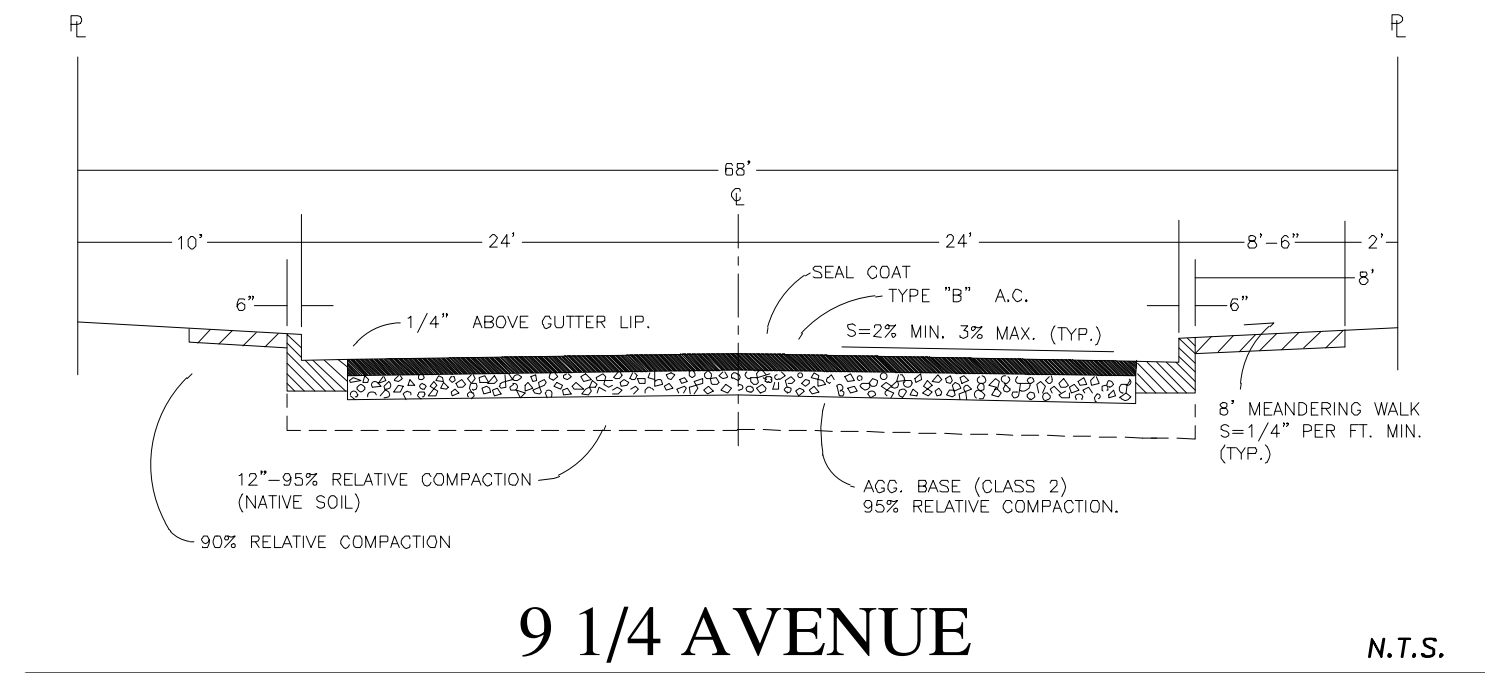
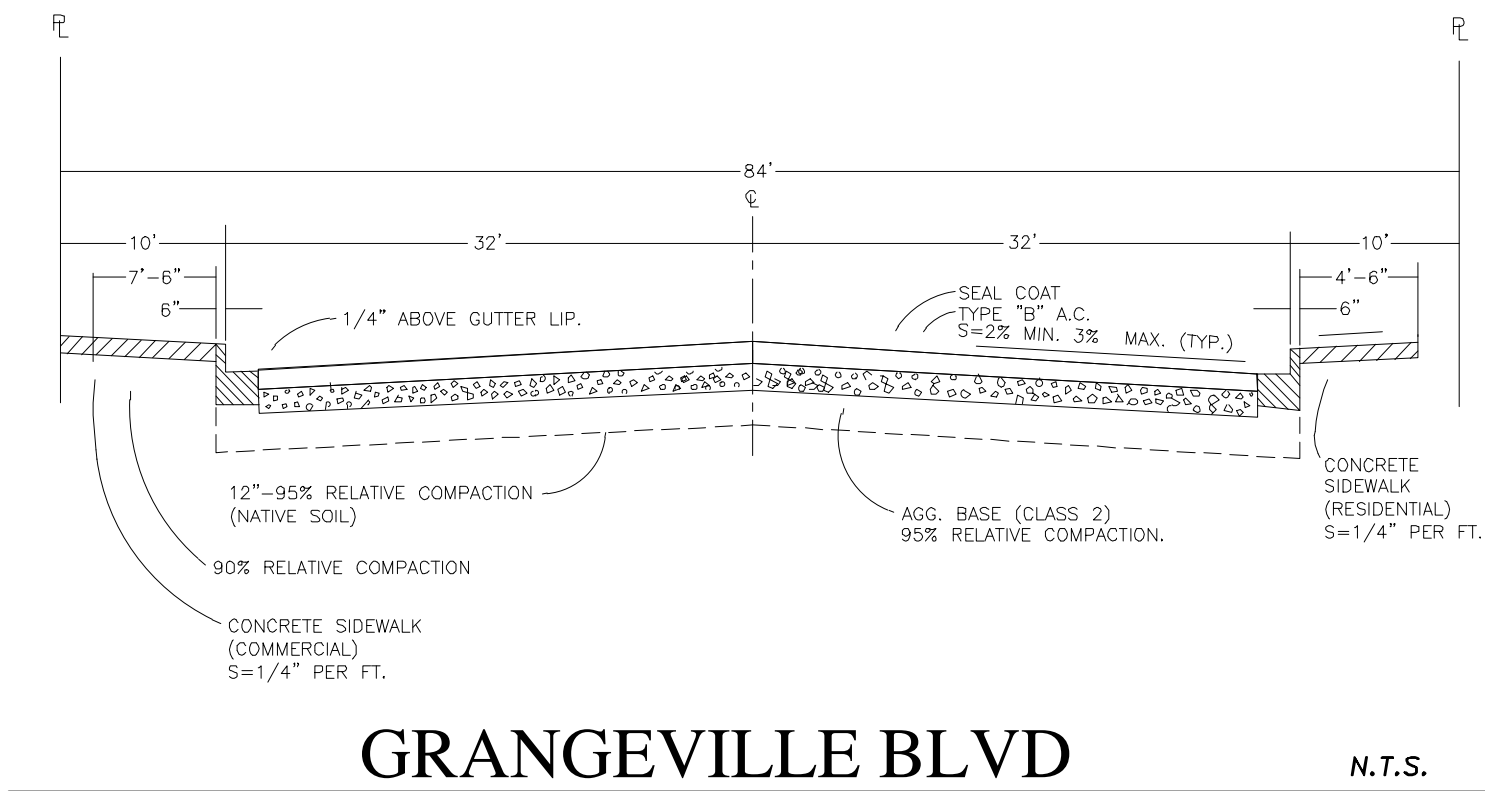
PASSED AND ADOPTED at a regular meeting of the Planning Commission of the City of Hanford by the following vote:

AYES:	Commissioners
NOES:	Commissioners
ABSTAIN:	Commissioners
ABSENT:	Commissioners

STATE OF CALIFORNIA)
COUNTY OF KINGS)ss
CITY OF HANFORD)

I, **Jason Waters**, Secretary of the Planning Commission of the City of Hanford, do hereby certify the foregoing Resolution was duly passed and adopted by the Planning Commission of the City of Hanford at a regular meeting thereof held on the **14th** day of **October 2025**.

Jason Waters, Deputy City Manager
Secretary of the Planning Commission



OWNER
WARMERDAM FAMILY TRUST
10426 EXCELSIOR AVE. HANFORD, CA, 93230
DADIGIAN FAMILY TRUST 2001
2491 16TH AVE. KINGSBURG, CA, 93631

DEVELOPER
N & M CAPITAL LLC
GREG NUNLEY (559)799-6993
1878 N MOONEY BLVD SUITE J
TULARE, CA 93274

PROJECT INFO
NORTH EAST CORNER OF 9 1/4 AVENUE AND GRANGEVILLE BLVD
APN: 014-143-069, 014-143-078
TOTAL AREA: 83.61 AC
EXIST. USE: VACANT/ AG
PROPOSED USE: SINGLE FAMILY PUD, NEIGHBORHOOD COMMERCIAL
FLOOD ZONE: X
SEWER: CITY OF HANFORD
WATER: CITY OF HANFORD
STORM DRAIN: CITY OF HANFORD
MIN. LOT SIZE: 2,800 SF; MAX. LOT SIZE: 11,540 SF
SINGLE FAMILY UNITS: 350
MULTI FAMILY UNITS: 300
RESIDENTIAL ACREAGE: 78.16 AC
DENSITY: 8.31 UNITS/AC
COMMERCIAL ACREAGE: 5.45 AC
OUTLOTS A-I TO BE DEDICATED TO CITY OF HANFORD
B.M.: CITY OF HANFORD #45B-ELEV: 253.51 (2021 DATUM)

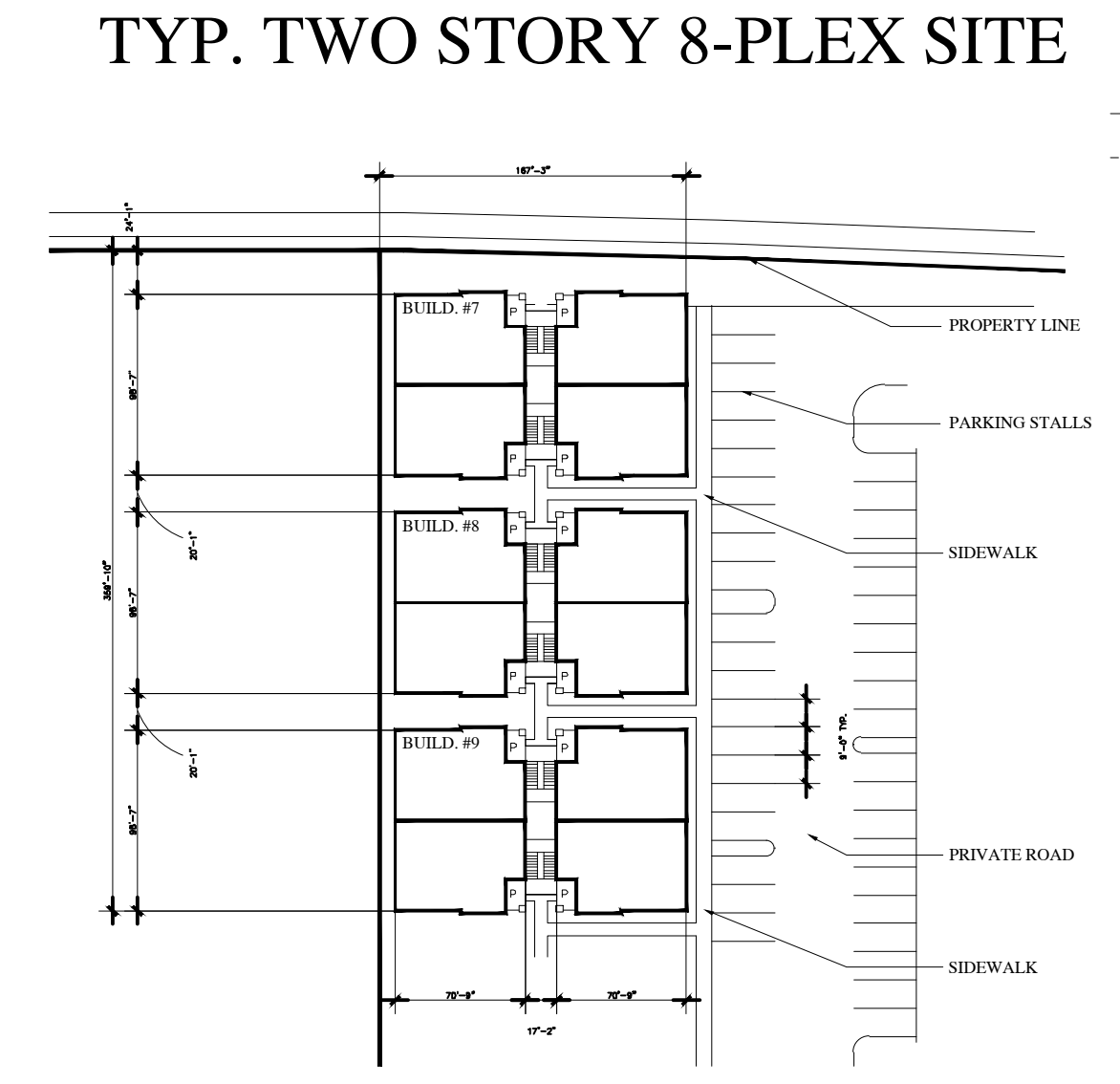
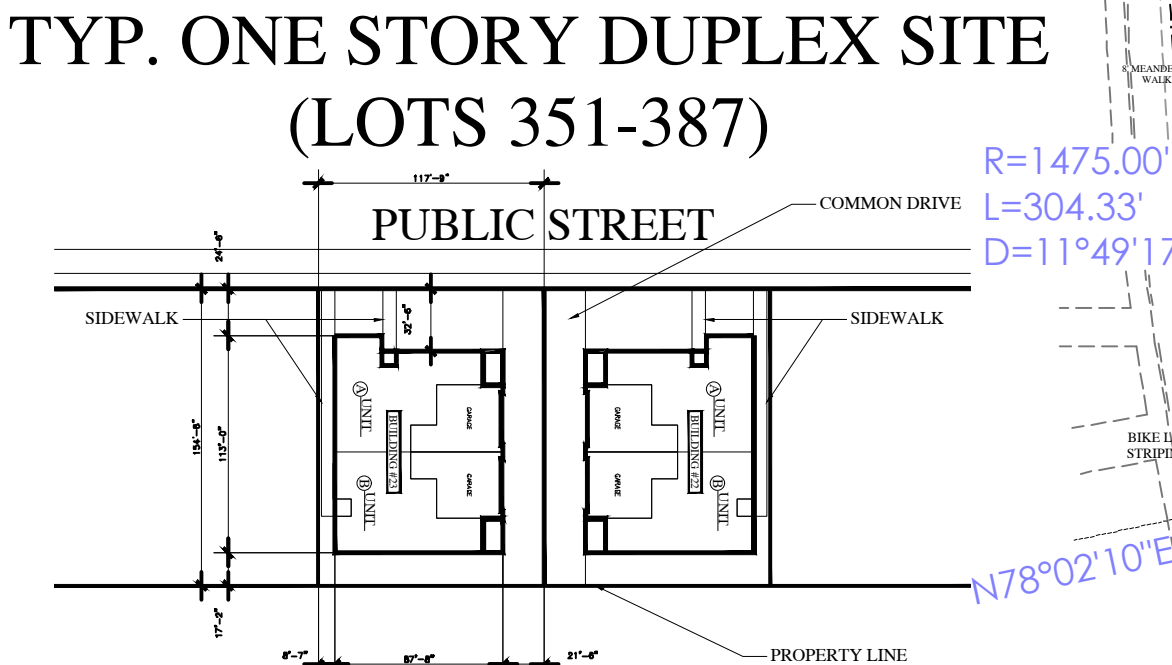
PHASES INFO					
PHASE 1	181 UNITS	40' WIDE LOTS: 115	45' WIDE LOTS: 66	MULTI FAMILY UNITS: 0	RETAIL: 0 SF
PHASE 2	150 UNITS	40' WIDE LOTS: 91	45' WIDE LOTS: 59	MULTI FAMILY UNITS: 0	RETAIL: 0 SF
PHASE 3	89 UNITS	40' WIDE LOTS: 19	45' WIDE LOTS: 0	MULTI FAMILY UNITS: 74	RETAIL: 0 SF
PHASE 4	110 UNITS	40' WIDE LOTS: 0	45' WIDE LOTS: 0	MULTI FAMILY UNITS: 106	RETAIL: 0 SF
PHASE 5	120 UNITS	40' WIDE LOTS: 0	45' WIDE LOTS: 0	MULTI FAMILY UNITS: 120	RETAIL: 37,700 SF
TOTAL	650 UNITS	40' WIDE LOTS: 225	45' WIDE LOTS: 125	MULTI FAMILY UNITS: 300	RETAIL: 37,700 SF

TRACT NO. 945 TENTATIVE SUBDIVISION MAP COPPER RIDGE

HANFORD CALIFORNIA
OCTOBER 8, 2025

LEGAL DESCRIPTION
Real property in the unincorporated area of the County of Kings, State of California, described as follows:
ALL THAT PORTION OF THE SOUTHEAST QUARTER OF SECTION 19, TOWNSHIP 18 SOUTH, RANGE 22 EAST, MOUNT Diablo COVE AND MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF, SHOWN AS PARCEL 239 PARCEL MAP RECORDED IN BOOK 7 AT PAGE 12, OF PARCEL MAPS, KINGS COUNTY.
EXCEPTING THEREFROM UNTO A. M. WARMERDAM AN UNDIVIDED ONE-FOURTH INTEREST IN AND TO ALL OF THE OIL, GAS, MINERAL AND MINERAL RIGHTS IN AND UNDER SAID LAND, AS EXCEPTED AND RESERVED IN DEED DATED JUNE 5, 1975 IN BOOK 1652 PAGE 649 AS DOCUMENT NO. 6092 OF OFFICIAL RECORDS.
ALSO EXCEPTING THEREFROM THAT PORTION COMVEYED TO HANFORD ELEMENTARY SCHOOL DISTRICT IN AND TO THAT PORTION OF SAID LAND DESCRIBED IN DEED RECORDED JANUARY 30, 2004 AS DOCUMENT NO. 0402594, KINGS COUNTY OFFICIAL RECORDS.
ALSO EXCEPTING THEREFROM THAT PORTION COMVEYED TO MELLODD DEVELOPMENT INC., A CALIFORNIA CORPORATION IN DEED RECORDED APRIL 25, 2005 AS INSTRUMENT NO. 09-12268 OF OFFICIAL RECORDS.
ALSO EXCEPTING THEREFROM THAT PORTION OF LAND COMVEYED TO THE CITY OF HANFORD, A MUNICIPAL CORPORATION, IN GRANT DEED RECORDED OCTOBER 09, 2013 AS INSTRUMENT NO. 1310090 OF OFFICIAL RECORDS.
APN: 014-143-078-000

LEGAL DESCRIPTION
Real property in the unincorporated area of the County of Kings, State of California, described as follows:
Parcel No. 1 of Parcel Map of that Parcel Map recorded in Book 2 of Parcel Maps at Page 93, Kings County Records in the Southeast Quarter of Section 19, Township 18 South, Range 22 East, Mount Diablo Base and Meridian filed June 17, 1989 in Book 7 of Parcel Maps at Page 12, Kings County Records.
Excepting therefrom that portion conveyed to Hanford Elementary School District, described in Deed recorded January 29, 2004 as Instrument No. 2004-2592 of Official Records, Kings County.
Also excepting therefrom that portion conveyed to the City of Hanford, by Deed recorded February 06, 2004 as Instrument No. 2004-3241 of Official Records, Kings County.
Also excepting therefrom that portion conveyed to The City of Hanford, a Municipal Corporation by Deed recorded October 25, 2004 as Instrument No. 2004-31953 of Official Records, Kings County.
And also excepting therefrom unto A.M. Warmerdam an undivided one-fourth interest in and to all of the oil, gas, minerals and mineral rights in and under said land, as excepted and reserved in deed recorded July 2, 1975 as Instrument No. 6992 in Book 1032 at Page 649, Official Records.
APN: 014-143-069-000



UNPLOTTABLE EASEMENTS

THE EFFECT OF RIGHT OF WAY OVER SAID PROPERTY AS DISCLOSED IN DEED FROM SAMUEL PAGE AND NANCY PAGE, HUSBAND AND WIFE, TO MARY A. GARVER, DATED JULY 5, 1892 AND RECORDED JULY 28, 1892 IN BK 54, PG 602 OF DEEDS, TULARE COUNTY.

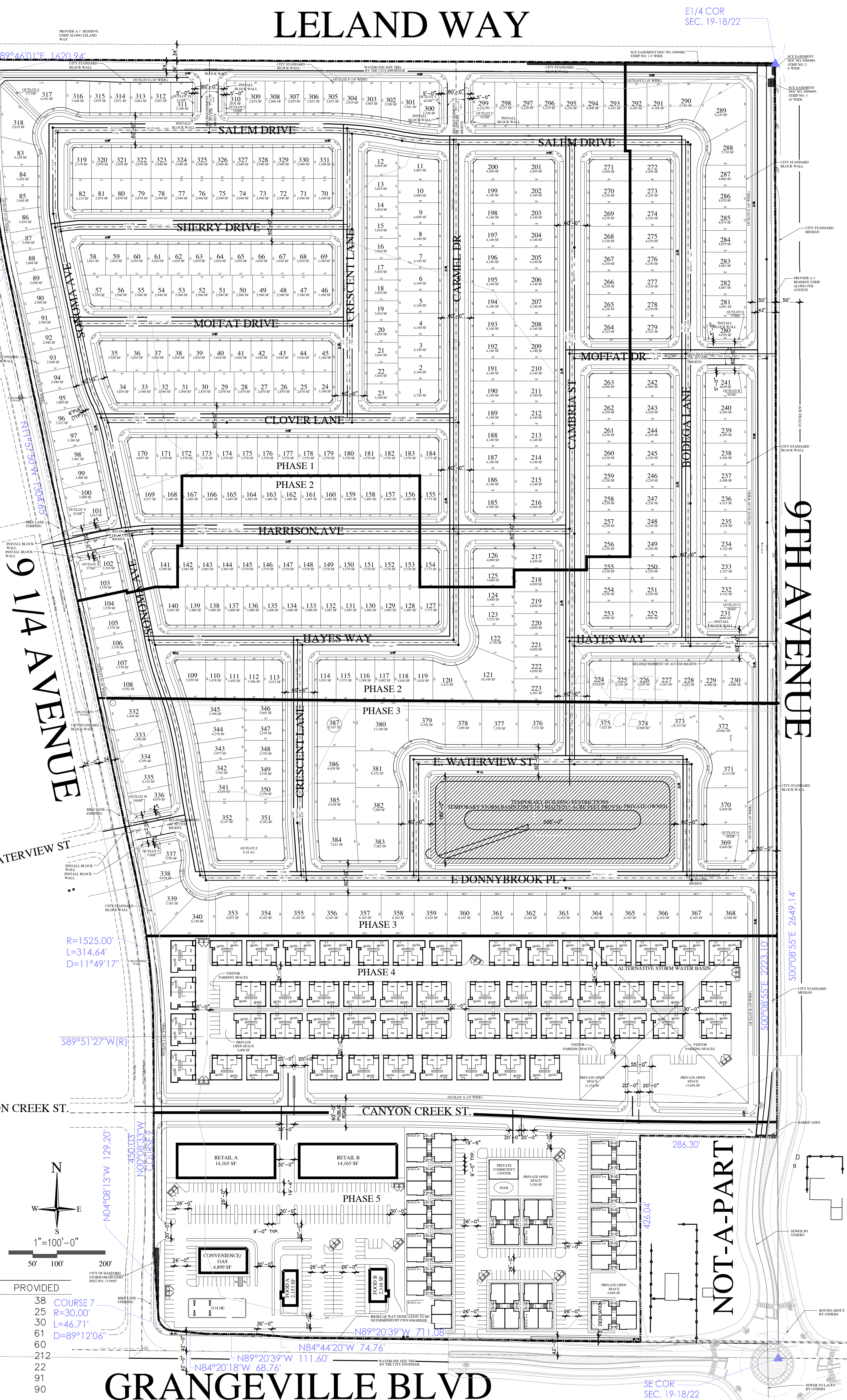


VICINITY MAP
NOT TO SCALE

PARKING INFO

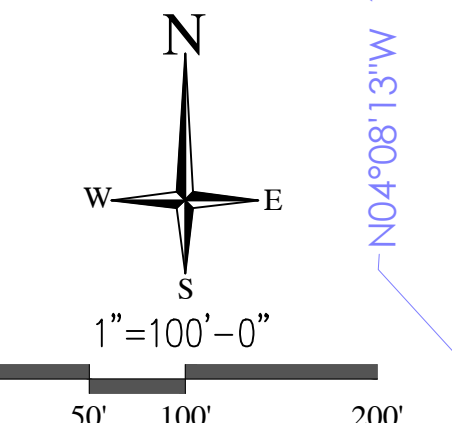
LAND USE	REQUIRED	PROVIDED
CONV./GAS	17	38
FOOD A	15	25
FOOD B	16	30
RETAIL A	48	61
RETAIL B	48	60
PHASE 4 MULTIFAM. COVERED	199	212
PHASE 4 MULTIFAM. UNCOVERED	0	22
PHASE 5 MULTIFAM. COVERED	85	91
PHASE 5 MULTIFAM. UNCOVERED	85	90

R=1475.00'
L=304.33'
D=11°49'17"



R=1525.00'
L=314.64'
D=11°49'17"

S89°51'27"W 129.20'



GRANGEVILLE BLVD

REVISIONS		DATE	BY
1			
2			
3			
4			

TENTATIVE SUBDIVISION MAP	
COPPER RIDGE	
HANFORD CALIFORNIA	

810 WEST ACEQUIA AVENUE
VISALIA, CA 93292
(559) 713-6139
overengineering09@gmail.com

TENTATIVE SUBDIVISION MAP	
COPPER RIDGE	
HANFORD CALIFORNIA	

TENTATIVE SUBDIVISION MAP	
COPPER RIDGE	
HANFORD CALIFORNIA	

SITE

JOB NUMBER

Exhibit B
Mitigation Monitoring and Reporting Program

MITIGATION MONITORING AND REPORTING PROGRAM

As required by Public Resources Code Section 21081.6, subd. (a)(1), a Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the Project in order to monitor the implementation of the mitigation measures that have been adopted for the Project. This Mitigation Monitoring and Reporting Program (MMRP) has been created based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) for the Copper Ridge Subdivision proposed by Quest Equity LLC in the City of Hanford.

The first column of the table identifies the mitigation measure. The second column names the party responsible for carrying out the required action. The third column, "Timing of Mitigation Measure" identifies the time the mitigation measure should be initiated. The fourth column, "Responsible Party for Monitoring," names the party ensuring that the mitigation measure is implemented. The last column will be used by the City of Hanford to ensure that the individual mitigation measures have been monitored.

Plan checking and verification of mitigation compliance shall be the responsibility of the City of Hanford.

MITIGATION MEASURE	RESPONSIBLE PARTY FOR IMPLEMENTATION	IMPLEMENTATION TIMING	RESPONSIBLE PARTY FOR MONITORING	VERIFICATION
Biological Resources				
Mitigation Measure BIO 1 (Construction Timing). If feasible, future construction activities will take place entirely outside of the avian nesting season, defined as February 1 to August 31.	Applicant Developer Builder	Ongoing	City of Hanford	
Mitigation Measure BIO 2 (Preconstruction Surveys). If construction must occur between February 1 and August 31, a qualified biologist will conduct surveys for active bird nests within 7 days prior to the start of work during this period. The survey area will encompass the site and accessible surrounding lands within ¼ mile for nesting Swainson's hawks, 500 feet for other nesting raptors, 300 feet for the tricolored blackbird, and 250 feet for	Applicant Developer Builder	7 days prior to construction	City of Hanford	

other nesting birds.				
Mitigation Measure BIO 3 (Avoidance of Active Nests). Should any active nests be discovered in or near proposed construction zones, the biologist will identify a suitable construction-free buffer around the nest. This buffer will be identified on the ground with flagging or fencing and will be maintained until the biologist has determined that the young have fledged and are capable of foraging independently.	Applicant Developer Builder	Ongoing	City of Hanford	
Cultural Resources				
Mitigation Measure CUL-1: In the event of accidental discovery of unidentified archaeological remains during development or ground disturbing activities in the Project area, all work shall be halted in immediate vicinity (within a 100-foot radius) until a qualified archaeologist can identify the discovery and assess its significance.	Applicant/ Construction Contractor	Ongoing during construction	City of Hanford	
Mitigation Measure CUL 2: If human remains are uncovered during construction, work shall be halted, and the Kings County Coroner is to be notified to investigate the remains and arrange proper treatment and disposition. If the remains	Applicant/ Construction Contractor	Ongoing during construction	City of Hanford	

are identified on the basis of archaeological context, age, cultural associations, or biological traits to be those of a Native American, California Health and Safety Code 7050.5 and California Public Resources Code 5097.98 require that the coroner notify the Native American Heritage Commission (NAHC) within 24 hours of discovery. The NAHC will then identify the Most Likely Descendent who will make recommendations regarding the treatment and disposition of the remains.				
Mitigation Measure CUL 3 A burial Treatment Plan shall be entered into by the Project applicant/property owner prior to any ground disturbing activities.	Applicant Construction Contractor	Prior to ground disturbing activities	City of Hanford	

Exhibit C
Conditions of Approval

PLANNING DIVISION
SITE PLAN REVIEW COMMENTS

TENTATIVE TRACT NO. 0012-24 V8

CONTACT: Gabrielle Myers, Senior Planner: (559) 585-2578

General Plan Designation: Low-Density Residential and Medium-Density Residential

Proposed GP Designation: Medium-Density Residential and Neighborhood Mixed Use

Zoning: Kings County Jurisdiction

Other Special Districts: N/A

Associated Entitlements

1. Annexation 166
2. General Plan Amendment –request to change from Low-Density Residential to Medium-Density Residential and Neighborhood Mixed Use
3. Prezone –Combination of R-M and MX-N
4. Planned Unit Development – a request to allow various deviations from the regulation of the R-M Medium-Density Residential zone district for the residential subdivision, including reduced lot size, lot width, lot depth, setbacks, and increased driveway paved surface allowance and allow removal of the block wall requirement between MX-N Neighborhood Mixed Use and R-M Medium-Density Residential.

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet
	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet

	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-foot wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.

Planning Division Recommendation ☒ Revise and Proceed ☐ Resubmit

R-M Medium Density Residential Zone District Standards

General Requirements:

- ☒ **That the multi-family duplexes and 8-plex low-rise apartments depicted in Phase 3, 4 and 5 are considered conceptual. Site Plan Review (and any necessary entitlements) will be required prior to development of the multi-family portion of the site.**
- ☒ That the applicant hereby agrees to hold the City of Hanford and all of its departments, officers, agents, and employees free and harmless of and from all claims of any kind or nature arising out of or by reason of the approval of this project.
- ☒ That approval of this project does not exempt compliance with all applicable sections of the Uniform Fire and Building Codes, Zoning Ordinance, Public Works Improvement Standards, and other City Ordinances.
- ☒ That the final map be submitted to the City Engineer and Community Development Department for compliance with the Tentative Subdivision Map approval prior to recording the final map.
- ☒ That all conditions of approval listed in this resolution by the City of Hanford be contained in the line drawing submitted for building permits.
- ☒ That in accordance with Title 16 of the Hanford Municipal Code, all conditions of this subdivision listed herein, and contained in subsequent improvement agreements, excluding the landscape district, must be completed and accepted for maintenance by the City Council prior to the final building inspection and occupancy permits being issued for the first house in the subdivision.
- ☒ That Vesting Tentative Tract 945 be developed consistent with the approved tentative tract map
- ☒ That the tentative tract is subject to the mitigations cited in the Mitigation Monitoring and Reporting Program

Right-to-Farm:

- ☒ Notwithstanding any other provision in this Chapter, agricultural operations are the principal and favored use of land in the areas of Kings County designated “Agricultural” in the Kings County General Plan and included in the agricultural zone districts of the Kings County zoning ordinance.

In order to implement Policy LU 8.2 and Program LU 8.2-A of the city of Hanford General Plan, there is hereby adopted in the city of Hanford a policy to (1) protect agricultural land, operations, and facilities from conflicting use due to the encroachment of incompatible, non-agricultural uses of the land in agricultural areas of the county, and (2) to advise developers, owners, and subsequent purchasers of property in the city of Hanford within one (1) mile of the city's urban limit line of the inherent potential inconveniences and discomforts often associated with agricultural activities and operations, including, but not limited to, equipment and animal noise; farming activities conducted on a 24-hour a day, 7-days a week basis; odors from manure, fertilizers, pesticides, chemicals, or other sources; the aerial and ground application of chemicals and seeds; dust; flies and other insects; and smoke from agriculture operations.

- ☒ That no lawfully established and otherwise lawful agricultural activity, operation, or facility, or appurtenances thereto, conducted or maintained for commercial agricultural purposes in a manner consistent with proper and accepted customs and standards as established and followed by similar agricultural operations in the same locality, shall be or become a nuisance, private or public, due to any changed condition in or about the locality, including, but not limited to, the encroachment of non-agricultural uses such as residences.
- ☒ In order to carry out the goals and policies of the city of Hanford General Plan, and the provisions of this chapter, the following notices and disclosures shall be required:
- ☒ All approvals for improvement or development of property including without limitation application for rezonings, land divisions, zoning permits, and residential building permits, on property in the city of Hanford within one (1) mile of the city's urban limit line, shall include a condition that notice and disclosure of this agricultural land use policy be given by the applicant, or the owner if different from the applicant. The applicant, or owner if different from the applicant, shall also acknowledge the contents of the notice and disclosure, which includes a description of the property the notice and disclosure pertains to, in the Official Records of the Kings County Recorder, and recorded at the applicant's own expense.

Zoning:

- ☒ That all requirements of the R-M Medium-Density Residential district shall apply, **except as modified through the Planned Unit Development**

Section	Requirement	Deviation Requested
§ 17.12.030 Lot area	The minimum lot area shall be 5,000 square feet, except as prescribed in Section 17.12.100	Minimum lot size of 2,800 sq. ft.
§ 17.12.040 Lot Dimensions	Frontage: The minimum lot frontage shall be 40 feet	Minimum frontage 40
	Width: The minimum lot width shall be 50 feet for interior lots and 60 feet for corner lots, except as prescribed in Section 17.10.100.	Minimum interior lot width: 40 feet Minimum corner lot width: 45 feet

	Depth: The minimum lot depth shall be 90 feet	Minimum depth: 70 feet
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-foot wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.

Dwelling Units per Lot (Section 17.12.050)

- ☒ That the minimum site area per dwelling unit shall be 3,000 square feet, **except as modified through the PUD.**

Section	Requirement	Deviation Requested
§ 17.12.050 Site Area per Dwelling Unit	The minimum site area per dwelling unit shall be 3,000 square feet	Minimum site area per dwelling unit 2,800 sq. ft.

Coverage (Section 17.12.060)

- ☒ That the maximum coverage of a lot shall be determined by the combined building setback area requirements, accessory structure limitations, open space requirements, and off-street parking.

Building Setback Area (Section 17.12.070)

- ☒ That no structure shall be placed within a building setback area.
- ☒ The front building setback area shall be 15 feet from the front lot line for livable space and 20 feet for garages, carports, and other non-livable building space, **except as modified through the PUD.**
- ☒ That the rear building setback shall be 15 feet from the rear lot line, except where there is a landscape easement with a wall or fence on the rear of the lot, then the rear building setback shall be 20 feet, **except as modified through the PUD.**
- ☒ The rear building setback area shall be increased by 10 feet for buildings over one-story high.
- ☒ That where there is a landscape easement with a wall or fence on the street side of the lot the side yard setback area shall be measured from the easement area instead of the side lot line.

Section	Requirement	Deviation Requested
§ 17.12.070 Building Setback Areas	Front – Livable: 15 feet	Front – Livable: 12 feet
	Front – Garage: 20 feet	Front – Garage: 20 feet
	Rear – one-story: 15 feet	Rear – one-story: 10 feet
	Rear – two-story: 25 feet	Rear – two-story: 10 feet
	Side – Interior: 5 feet	Side – Interior: 5 feet
	Side – Street-Side: 10 feet	Side – Street-Side: 10 feet

Distance between Structures (Section 17.12.080)

- ☒ The minimum distance between structures shall be 10 feet, except as provided by the building code.

Height of Structures (Section 17.10.090)

- ☒ The maximum structure height shall be 35 feet.

Driveways (Section 17.12.110)

- ☒ That the width of a driveway and any paved area shall not cumulatively exceed 40% of the width of the lot's street frontage on which the driveway and any paved area faces. In the case of "L" or "U" shaped driveways or other configurations besides perpendicular driveways, the paved area of these driveways shall not exceed 50% of the front building setback area.
- ☐ That on corner lots, the driveway shall be located on the side of the lot adjacent to the interior lot line.
- ☐ That on key lots, the driveway shall be located on the side of the lot, which is not adjacent to the rear lot line of the adjacent reverse corner lot.

Usable Open Space (Section 17.12.150)

- ☒ That lots with four or less dwelling units shall provide for a usable open space area of a minimum 300 square feet per dwelling unit. The open space shall be a minimum of 15 feet side, **except as modified through the PUD.**

Section	Requirement	Deviation Requested
§ 17.12.150 Usable Open Space	300 square feet per dwelling unit. The open space shall be a minimum 15-foot wide	Deviation from the minimum width dimension requested, 10 feet. 300 sq. ft. of open space will still be accommodated.

- ☒ That lots with five or more dwelling units shall provide for a usable open space area equal to five percent of the lot area. Where multiple lots that together make up a single development site, the

required open space may be combined into common open space areas that are accessible to all residents of the site.

Landscaping (Section 17.12.160 and 17.52)

- ☒ That landscaping be provided in accordance with Section 17.52 Landscape Standards of the Hanford Municipal Code.
- ☒ That except for driveways and approved parking areas all yard areas and setback areas visible from the street shall be landscaped with live plant materials and ornamentation common to the Hanford area or up to 100% of the yard and setback area may be landscaped with artificial turf and other permeable surfaces.
- ☒ That two street trees, a minimum 15 gallon size, shall be planted on all lots 6,000 square feet or greater. One of the two shall be planted 12 feet (no greater or no less) from the face of the front lot line street curb.
- ☒ That there shall be two additional street trees, a minimum 15 gallon size, planted on all corner lots in the parkway adjacent to the street side lot line.
- ☒ That all species of trees shall be selected from a list approved by the City Parks and Recreation Commission.

Off Street Parking: (Section 17.54).

- ☒ That the applicant shall provide two parking spaces per dwelling unit, one of which shall be covered.
- ☒ In the R-M Medium-Density Residential zone district, single-family dwellings shall provide a minimum of one covered and one uncovered parking space. Multi-family parking is required, as follows:

Table 17.54.040	
Number of Parking Spaces	
Land Use	Parking Space Requirement
Multifamily dwelling, Studio or SRO (no bedroom)	1 space per dwelling unit
Multifamily dwelling, 1-bedroom	1.5 spaces per dwelling unit; 50% of the spaces shall be covered parking
Multifamily dwelling, 2-bedroom	1.75 spaces per dwelling unit; 50% of the spaces shall be covered parking
Multifamily dwelling, 3 or more bedrooms	2 spaces per dwelling unit; 50% of the spaces shall be covered parking
Single- or multifamily dwelling specifically for seniors 55 years of age or older	1 space per dwelling unit or 1 space for every 4 beds

Required parking spaces may not be provided in any front, side, or rear building setback area. Except for driveways allowed in the front building setback area, all additional parking for residential uses shall be to the rear or side of the dwelling. No parking shall occur in the front or street side building setback areas. **Parking requirements for the multi-family portions of the development (Phase 4 and 5) shall be evaluated and required at the time of development. Site Plan Review will be required.**

Noise:

- ☒ That construction equipment is muffled and construction activities be limited to the hours between 7:00 a.m. to 10:00 p.m., Monday through Friday, unless the construction is within the enclosed structure or approved by the Community Development Department.
- ☒ That noise from fixed mechanical equipment, when measured at the property line, meets the standard of the Hanford Noise Element.

Rooftop Equipment HMC Section 17.50.100

- ☒ That all elevator housing and mechanical equipment located on the roof of any building shall be screened from adjacent views and contained within a completely enclosed penthouse or portion of the same building having walls and roofs with construction and appearance similar to the building.

Outdoor Lighting Standards HMC Section 17.50.140

- ☒ That all lights and light fixtures, except public street lights, shall be located, aimed or shielded so as to minimize light trespassing across property boundaries or skyward.
- ☒ That no lights or light fixtures shall flash, revolve, blink or otherwise resemble a traffic control signal or operate in such a fashion to create a hazard for passing traffic.
- ☒ That building mounted lighting fixtures shall be attached only to the walls of the building. The top of a light fixture attached to a building wall shall not be higher than the top of the building parapet or the top of the roof eave, whichever is lower.
- ☒ That canopy ceiling light fixtures shall be recessed or the sides of the lens area shall be shielded in order to eliminate emission of horizontal light.
- ☒ That mercury vapor lamps shall be a fully shielded fixture with all light directed on-site.
- ☒ That freestanding light fixtures shall not exceed eighteen (18) feet in height measured from the top of a light fixture to the adjacent grade at the base of the support for that light fixture.

Tents, Tarps, and Other Coverings (Section 17.50.130)

- ☒ That no front or side building setback area shall be covered by tents, tarps, cloth, fabric, or a wood or metal covering or structure except for the following:

- ☒ Standard window and door awnings
- ☒ Ornamental covers, such as a sidewalk or entry awning trellis, or other similar improvement intended as an improved passageway or for aesthetic purposes providing architectural integrity with the building to which it is attached. Supports shall be ninety (90) percent open and shall not be enclosed.

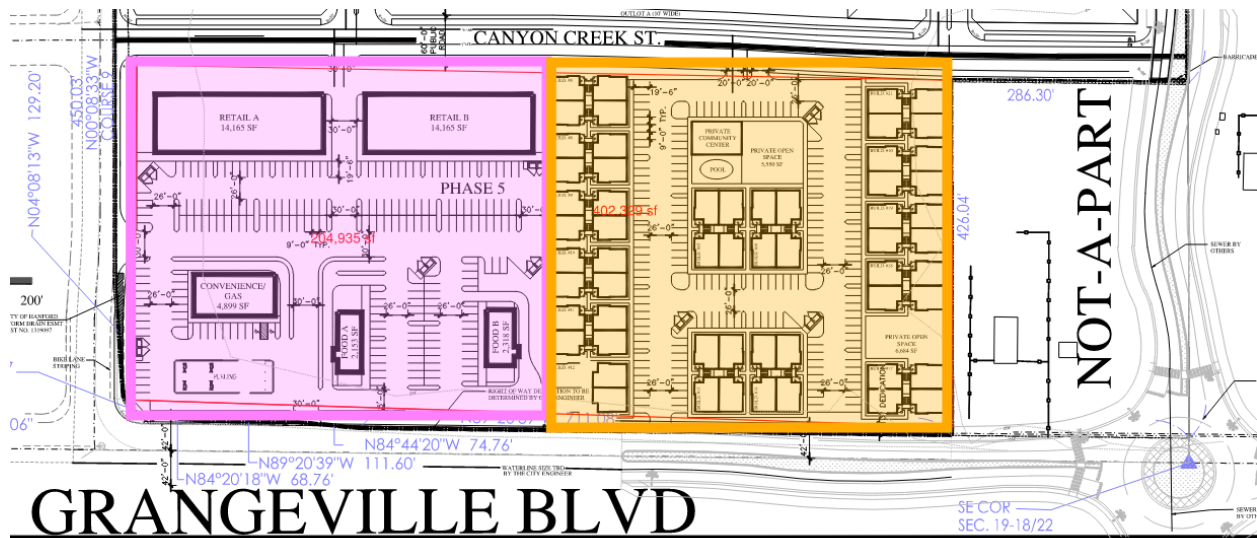
Dust Control:

- ☒ That the appropriate dust-control practices of the San Joaquin Valley Air Pollution Control District shall be implemented.
- ☒ That the any necessary permits be obtained through the San Joaquin Valley Air Pollution Control District.

MX-N Neighborhood Mixed Use zone district standards – Applicable to the commercial portion of Phase 5

General:

- ☒ **That the commercial development of the site, depicted in Phase 5 is considered conceptual. Site Plan Review (and any necessary entitlements) will be required prior to development of the commercial portion of the site.**
- ☒ That approval of this project does not exempt compliance with all applicable sections of the Zoning Ordinance, Public Works Improvement Standards, fees, or other City Ordinances.
- ☒ That all approved proposals of the applicant be conditions of development, if not mentioned herein.
- ☒ That the site be developed according to the approved site plan, titled Site Plan Review No. **2025-xx (conceptual included in TSM, final to be determined)** with minor modifications to be approved by the Community Development Department.
- ☒ That no expansion of the use which would tend to increase the projected scale of operations beyond the scope and nature described in this Site Plan Review shall be permitted except upon application for, and approval of, modification of this application according to all procedures and requirements thereof.
- ☒ That the Mixed Use Neighborhood zone districts shall be designed to provide and encourage walking within the commercial uses and between the commercial uses and the residential uses within the MX-N zone and other nearby residential uses. At a minimum, this shall be accomplished with a minimum 10-foot wide pedestrian path of travel between commercial sites and all residential sites within the MX-N zone.
- ☒ That between 25% and 75% of the contiguously zoned parcels in MX-N shall be reserved for residential use. (This has been satisfied by Phase 5 overall development proposal). The MX-N Neighborhood Mixed Use portion of the development is 5.45 acres. The entirety of Phase 5 of Tentative Tract 945 is approximately 9.23 acres. Therefore, the residential to commercial percentage is approximately 60% commercial to 40% residential.



Cultural Resources:

- ☒ That if cultural resources are discovered during construction or related activities, all work shall be halted and a qualified archeologist and the City of Hanford shall be notified. The find shall be properly investigated and appropriate measures are to be taken before construction may continue.

Building Setback Areas (Section 17.24.060)

- ☒ That the appropriate setbacks be maintained, as follows: **lot lines are subject to change based on final site configuration**
 - ☒ The front building setback area shall be 15 feet (front considered lot line along 9 1/4 Avenue).
 - ☒ The rear building setback shall be 15 feet from the rear lot abutting an R-M zone district (rear considered east lot line abutting not-a-part)
 - ☒ The side building setback shall be 15 feet from the side property line abutting an R-M zone and the public street.
 - ☒ The street side building setback shall be 15 feet.

Height of Structures (Section 17.24.080)

- ☒ That the maximum structure height shall be 35 feet.

Off Street Parking: (Section 17.54).

- ☒ That the applicant shall provide a minimum of 108 parking stalls for the commercial portion of the site, five of which are ADA-accessible, based on the ratio for an integrated shopping center 1 space per 350 square feet.

Calculation: 37,700 square feet of integrated retail space ÷ 350 square feet = 107.7

108 parking spaces required

Parking requirements will be verified during Site Plan Review. Conceptually, parking has been provided, as shown in the table below:

PARKING INFO

LAND USE	REQUIRED	PROVIDED
CONV./GAS	17	38
FOOD A	15	25
FOOD B	16	30
RETAIL A	48	61
RETAIL B	48	60

- ☒ That the standard parking space shall not be less than 18.5 feet in length and nine feet in width, exclusive of aisles and access drives (Section 17.54.110 A).
- ☒ That the maximum number of compact-car parking spaces is limited to 30 percent of the total parking spaces required. A compact parking space shall not be less than 16 feet in length and 8 feet in width, and marked for compact cars (Section 17.54.110 B. and C).
- ☒ There shall be no more than four compact spaces adjacent to each other.
- ☒ That parking for bicycles and low-emission vehicles shall be provided in accordance with the latest adopted version of the California Building Code (Section 17.54.190).
- ☒ In the commercial zone district, not less than five percent of the interior square footage of a parking area shall be landscaped with trees and other plant materials suitable for ornamentation. **Parking areas are to have one tree placed at every four lineal parking stalls.**

Usable Open Space: (Section 17.24.110).

- ☒ **That new commercial developments shall provide a common outdoor area, shaded sitting area for use by customers. The size of this area shall be a minimum 250 square feet per acre of site area.**
- ☐ That lots with four or less dwelling units shall provide for a usable open space are of a minimum 300 square feet per dwelling unit. The open space shall be a minimum 15 feet wide.

- ☐ That lots with five or more dwelling units shall provide for a usable open space area equal to five percent of the lot area. Where multiple lots that together make up a single development site, the required open space may be combined into common open space areas that are accessible to all residents of the site.

Signage: (Section 17.56).

- ☒ That any/all signs proposed for this development shall be subject to the requirements and prescribed in Chapter 17.56 of the Hanford Municipal Code. A separate application is required.

Number and Size of Permanent Signs by Zone		
Zone District	Building Signs	Freestanding Signs
C-N, C-R, C-S, C-H, MX-N, MX-C, and O zones	No limit to number of signs per business establishment. Allowed square footage per building frontage is cumulative. Establishments with primary building frontage less than 300 feet: 2 sq. ft. per 1 lineal foot up to a maximum 350 sq. ft. along primary frontage. 50 sq. ft. allowed regardless of frontage length. Secondary building frontage: 1 sq. ft. per lineal foot up to a maximum 200 sq. ft. per secondary frontage. 35 sq. ft. allowed regardless of frontage length. Sites within 100 feet of State Route 198 may count the frontage facing State Route 198 as their primary frontage for the purpose of calculating maximum sign size.	1 sign per establishment maximum. 40 sq. ft. maximum sign face size. 6 feet high maximum if set back 10 feet from property line. 5 feet high maximum if set back 5 feet from property line. 4 feet high maximum if set back 0 feet from property line. Sites with an integrated shopping center: 1 additional freestanding sign up to 350 sq. ft. Maximum height not greater than 1.5 times the average height of the building.

Landscaping: (Section 17.24.120 and 17.52).

- ☒ That landscaping shall be provided and permanently maintained in a setback area not less than 15 feet from a lot line adjoining a street.
- ☒ General Design Standards: the following features shall be incorporated into the design of the proposed landscape and shown on the required landscape plans:
- ☒ Publicly maintained landscape areas shall be separated from privately maintained landscape areas with, at a minimum, a four (4) inch wide concrete mow strip.

- ☒ Pedestrian access to sidewalks and structures shall be integrated with the design of landscaped areas.
- ☒ Landscape adjacent to driveways and parking areas shall be protected from vehicle damage through the provision of a minimum six (6) inch high and six (6) inch wide concrete curb.
- ☒ Concrete mow strips, when used, shall be a minimum of four (4) inches in width.
- ☒ Trees and shrubs shall be planted so that at maturity they do not interfere with utility lines and traffic safety sight areas.
- ☒ Trees and shrubs shall be planted and maintained in a manner that protects the basic rights of adjacent property owners, particularly the right to solar access.
- ☒ Trees planted within five (5) feet of sidewalks or curbs shall have an eighteen (18) inch by ten (10) foot long linear root barrier placed at each edge of the sidewalk or face of curb, centered on the tree.
- ☒ Plant materials. Plant materials shall be selected and installed in accordance with the following requirements:
 - ☒ The size of ten (10) percent of the trees to be planted shall be twenty-four (24) inch box or larger. The remaining trees shall be sized fifteen (15) gallons or larger.
 - ☒ The size of seventy (70) percent of plants and shrubs shall be at five (5) gallon or larger. The remaining plants and shrubs shall be sized one (1) gallon or larger.
 - ☒ The size of groundcover at planting shall be one (1) gallon or larger.
 - ☒ Groundcover shall be designed to have one hundred (100) percent coverage within two (2) years.
 - ☒ Drought tolerant plant material and climate appropriate species shall be emphasized in the design.
- ☒ That the landscaped area shall be planted with live and healthy plant materials suitable for screening/or ornamenting the site. Landscaped areas shall be watered by automatic systems and designed and developed in accordance with Chapter 12.08 and the most recent State Model Water Efficient Landscaped Ordinance.
- ☒ That no fence, hedge, or shrub shall be installed, planted, or maintained along a street frontage, which creates a traffic or pedestrian hazard.

Fencing and Walls: (Section 17.24.130)

- ☒ That a block wall with a minimum height of seven feet shall be provided along any side or rear lot line that abuts an R-L or PF zone district, **requested to be removed between the MX-N**

designation to the south and the R-M designation to the north through the PUD process. A block wall is required between the MX-N designation and R-M designation to the east (not-a-part)

- ☒ That no fence or wall shall be placed in front of or within any landscaped area located next to a street.
- ☒ That the open storage of materials and equipment attendant to a use shall be permitted only within an area surrounded or screened by a solid wall or fence seven feet minimum in height.
- ☒ That any proposed fencing on the site be maintained in good repair.
- ☒ That no fence or wall shall be placed within the public right-of-way.
- ☒ That a masonry fence exceeding three (3) feet in height shall require engineered footings and a building permit. All other fencing exceeding seven (7) feet in height shall require engineered post footings and a building permit.
- ☒ That no hedge, shrub, fence, or wall exceeding the three (3) feet in height, or four (4) feet in height if the upper one (1) foot is fifty (50) percent or more open shall be planted, placed, or maintained within the twenty-five (25) feet corner sight triangle of a corner lot, or along a front or street side property line where the hedge, shrub, fence, or wall creates a traffic or pedestrian hazard as determined by the Community Development Director.

Outdoor Lighting Standards (Section 17.50.140)

- ☒ That all lights and light fixtures, except public street lights, shall be located, aimed or shielded so as to minimize light trespassing across property boundaries or skyward.
- ☒ That building mounted lighting fixtures shall be attached only to the walls of the building. The top of a light fixture attached to a building wall shall not be higher than the top of the building parapet or the top of the roof eave, whichever is lower.
- ☒ That the canopy ceiling light fixtures shall be recessed or the sides of the lens area shall be shielded, in order to eliminate emission of horizontal light.
- ☒ That the height of freestanding light fixtures, including freestanding parking lot fixtures, shall be measured from the top of a light fixture to the adjacent grade at the base of the support for that light fixture and shall not exceed 30 feet.

Dust Control:

- ☒ That the appropriate dust-control practices of the San Joaquin Valley Air Pollution Control District shall be implemented.
- ☒ That the any necessary permits be obtained through the San Joaquin Valley Air Pollution Control District.

BUILDING DIVISION

TSM0012-24

Contact Building Official: Tom Webb (559) 585-2584

Concerning questions that you may have on the conditions listed below:

Soils:

1. That a preliminary soils report, prepared by a qualified soil's engineer, be provided to the Engineering and Building Departments prior to approval of Subdivision Improvement Plans.
2. That a final soils report, prepared by a qualified soils engineer, be provided to the Engineering Department and Building Division prior to acceptance of the subdivision improvements by the City or issuance of building permits or whichever comes first.
3. That the developer retains the design engineer to inspect and verify that grading within the subdivision was constructed as per the approved design, and a copy of the report be provided to the Building Division prior to building permit issuance.

Street Names and Addresses:

1. That street address for each lot, as provided by the Building Division, be included on the subdivision final map.
2. That street names, as shown on the tentative subdivision map, be included on the subdivision final maps.
3. That all single family dwellings within the subdivision have illuminated address numbers 2-¼ inches high or be within an illuminated area with 3-½ inch high address numbers installed on the front most part of the building leading to the entrance. In either case the address numbers shall be of contrasting colors with the background.
4. That all landscaping requires permits and must meet requirements at time of installation.
5. That a map must be provided to show existing streets names of surrounding subdivisions that have City maintained streets.



City of Hanford Fire Department

Fire Prevention and Community Risk Reduction Division

Fire Marshal

Nikkie Chamberland

City Of Hanford Fire Department Plan Review

Approval of all projects does not exempt compliance with all applicable sections of the adopted Fire Codes and local city ordinances. All fire protection systems must be installed and operational prior to occupying the building. All permits shall be issued and paid for prior to scheduling any inspections with the fire department. Please contact the building department for the submittal process. To schedule an inspection please contact the building department at 559-585-2580

The scope of work shall be clearly stated on all the plans submitted for the permit. All deferred submittals shall be listed on the building plan page. All deferred submittals are required to be submitted within 30 days of building permit issuance.

Plan review number: TSM0012-24

Address: NA

Plan Reviewer: Nikkie Chamberland

Date: 9-27-2024

The following are comments that are applicable and pertain to the plans submitted: This project must comply with the latest California Fire Code.

- Project shall meet the minimum fire flow requirements per Appendix B & C of the CFC 2022; Provide the fire flows within one year
- New and existing residences that have an automatic sprinkler system, proposed accessory dwelling units shall have an automatic sprinkler system. A separate fire department permit will be required.
- Fire Riser Room:
 1. a separate room that contains the Fire Riser shall contain one man door, the room shall be a 2-hour rated room with adequate spacing to perform

maintenance, riser room shall be properly labeled with 4" lettering with contrasting background and a knox box shall be installed to contain the riser room key, fire sprinkler coverage required, emergency lighting and illuminated lighting required. The riser shall be interconnected with the fire alarm

- When a sprinkler system is required with more than 21 heads, the system shall be monitored by a central monitoring station. Fire alarm and fire detection systems required by Chapter 9 of CFC, CBC, shall be installed per NFPA 72.
- Knox FDC Locking Caps are required on all Fire Department Connections. A fire department access road is required for facilities that are protected by fire sprinklers and are more than 400 feet away; on-site fire hydrants and mains shall be provided where required by the AHJ. Provide a letter of certification from a licensed soil engineer on non-paved all-weather roads that provide fire access, which shall support a 40,000-lb fire apparatus at a minimum.
- All dead-end access roads more than 150 must provide an approved turnaround or hammerhead and comply with city standards.
- All access roads shall not be less than 20 ft wide and 13 ft 6 inches
- Access road turning radius for fire apparatus/
 1. Inside turn: 20ft 10 inch
 2. Curb to Curb: 37 ft 3 inches
 3. Wall to Wal: 42 ft
- Temporary or permanent fire department access roads shall be constructed in accordance with City Standards ST-36. All weather access roads shall be in place prior to any combustible construction being brought onto the premises unless approved by the fire department.
- Additional Hydrants may be required, all hydrants shall be installed and accepted prior to combustibles being dropped on site. All hydrants shall be protected by bollards Hydrant spacing shall be as follows CFC 2022 Appendix C;
 1. Residential area- 500ft
 2. Commercial area-300ft
 3. A hydrant will be required within 50' of Fire Department connection.
 4. Provide a turning template on Plan Review
- No traffic calming devices shall be installed without the Fire Department's approval
- Areas identified as "**Fire lanes**" must be identified as such per requirements set forth in the California Vehicle Code Section 22500.1.
 1. **Access roads 20-26 feet in width:** Fire lanes shall be on both sides of the fire apparatus access roads.
 2. **Access roads 26 to less than 32 feet in width:** Fire lanes shall be on one side of the fire apparatus access roads.
 3. **Access roads 32 feet in width or more:** No fire lanes required.
 4. **Markings shall include "No Parking- Fire Lane"**
- Locked gates installed across fire department access roads:

1. **Manual gates** with a chain lock require a **Knox Padlock** to be installed on them, or a **Knox Box** shall be installed on the exterior of the gate and a key to the lock on the gate must be placed in the Knox Box. (See www.knoxbox.com for current models)
 2. **Electric Gates** shall be equipped with an electric **Knox Key Switch**, at the gate location.
 3. In case of a loss of power, electrically operated gates shall have a means of backup power or shall default in the open position for immediate fire department access.
 4. At no time shall the width of the fire department access road be reduced below **20 feet wide through or at any gates** along the fire department's emergency access roads due to protruding objects from gate supports, frames, signs, access booths, curbs, etc.
 5. Provide a Knox Box for all structures and gates. In accordance with the 2019 CFC 506.1. Hanford Fire Department shall approve the location.
 6. Ordering Knox Box products can be done directly at www.knoxbox.com. Click to choose your local fire department agency, enter "Hanford Fire Dept", and a list of products will populate for you to order.
- All address numbers shall be installed onto the building and shall be visible from the frontage street. The color of the address numbers shall be in a contrasting color to the building.

Size of Address Numbers:

- | | |
|--|-----------------|
| 1. Downtown area (existing buildings): | 4 inch numbers |
| 2. Buildings 20 ft. or less from the street: | 6-inch numbers |
| 3. Buildings 21- to 40-ft. from the street: | 8-inch numbers |
| 4. Buildings more than 40 ft. from the street: | 12-inch numbers |
- Commercial cooking
 1. Commercial cooking equipment that produces grease-laden vapors shall be provided with a Type I hood. ***A separate permit is required for the Type I hood.*** Contact the **Building** department for submittal information.
 2. All commercial cooking appliances creating grease-laden vapors shall have a K-Class fire extinguisher within 30 feet of cooking appliances in accordance with the most currently adopted edition of the CFC.
 3. Commercial cooking equipment that produces grease-laden vapors shall be provided with a Type I Hood. In accordance with the California Mechanical Code, an automatic fire extinguishing system is listed and labeled for its intended use.
 4. If the fire alarm is present, the hood system shall be interconnected with the fire alarm
 - Operational Fire Permit is Required
 - Any Special Event project shall comply with the 2019 edition of the California Fire Code, chapter 31 for tent structures, exiting, fire extinguishers, and other fire protection applications.

- Submit plans and information regarding high-piled storage, rack storage, storage of combustible commodities, hazardous materials, and any processes regulated by the Uniform Fire Code
- Fire permits are required for all underground firelines, overhead sprinklers, and fire alarms. These are all separate permits and will be charged accordingly. All deferred submittals shall be submitted, stamped, and approved prior to combustible on site.
- Refer to the 2022 California Fire Code in governing codes
- Shell buildings shall provide a description of the tenant and/or storage of the building.
- A fire pump may be required if the building is over 2 stories in height in a commercial setting.

PUBLIC WORKS DEPARTMENT

Contact Assistant Engineers: Steve Coodey or Robert Buchanan
Concerning questions that you may have on the conditions listed below:

Tentative Tract 945- Copper Ridge Development

Maps and Plans:

1. That the developer submit to the City Engineer a set of construction plans on 24" x 36" sheets for all required improvements. Plans shall be prepared by a registered civil engineer, and shall include a drainage and utility plan identifying sizes and location of sanitary sewer, storm drainage and water mains, curbs, gutters, sidewalks, masonry wall, street improvements and other infrastructure required for development. All plans shall be approved by the City Engineer and all other involved agencies before the release of the building permits.
2. That the developer shall submit to the City Engineer a set of construction plans on 24" X 36" size sheets for all required improvements. The plans shall be prepared by a licensed civil engineer and shall include a site plan showing all on-site and off-site improvements, including but not limited to, sanitary sewer, storm drainage, and water system infrastructure, refuse enclosure locations, public street & parking lot improvements, landscape & irrigation systems and all other improvements as required by the project conditions of approval and the City of Hanford Standards and Specifications. Improvement plans shall include all City of Hanford Construction Standard Detail's pertinent to the project. Plans must be approved by the City of Hanford and any other affected agencies before issuance of building or encroachment permits.

Easements:

1. That easements be designated on the recorded final map as required by the utility companies and where needed for providing service to streetlights as designated by the City of Hanford Engineering Department.
2. That the developer shall acquire an easement for temporary storm basin purposes to be dedicated to the City where necessary to facilitate installation of storm drainage facilities connecting the portion of the development to the proposed storm drainage basin. Easements required to serve and maintain the temporary storm drainage basin may include, but are not limited to, access and storm drain pipeline easements. Easement locations and widths shall be approved by the City Engineer and dedicated on the Final Map or by separate instrument.
3. That an offsite Sanitary Sewer Easement shall be obtained by the developer for the installation of the 9th Avenue sanitary sewer main from the south development boundary through the Not-A-Part, to the intersection of 9th Avenue and Grangeville

Boulevard. Easement locations and widths shall be approved by the City Engineer and dedicated on the Final Map or by separate instrument.

4. That all easements for irrigation ditches and/or irrigation pipelines be legally abandoned or relocated to the satisfaction of the City Engineer prior to acceptance of the subdivision improvements.
5. That all proposed landscape/public utility easements as shown on the tentative map be dedicated to the City and be included on the subdivision final map. Additional landscape or public utility easements determined necessary by the City Engineer or City Planner during review of the improvement plans shall also be dedicated with the Final Map, as required by the City.

Dedications:

1. That all proposed streets, street extensions and easements as shown on the tentative map be dedicated to the City with the subsequent final map(s). The streets/street extensions are to be dedicated as public right-of-way, and any alterations of existing utilities be the responsibility of the developer.
2. That developer dedicate to the City, additional right of way along the east side of 9 ¼ Avenue, between Grangeville Boulevard and Leland Avenue to facilitate construction of the development frontage improvements as approved on the Tentative Map.
3. That the developer dedicate to the City, additional right of way of Grangeville Boulevard between the eastern project boundary and 9 ¼ Avenue to facilitate construction of the development frontage improvements as approved on the Tentative Map.
4. That the developer dedicate to the City, right of way along the Leland Avenue project frontage to facilitate construction of the development frontage improvements as approved on the Tentative Map.
5. That the developer dedicate to the City, right of way along the 9th Avenue property frontage to facilitate construction of the development frontage improvements as approved on the Tentative Map.
6. That developer dedicate an easement to the City, for the proposed of an onsite drainage basin for Tract 945 drainage purposes.
7. That the developer shall dedicate all Outlots to the City that shall be maintained by the Community Facilities District (CFD). Additionally, at entrances to the development where roads transfer from collectors/arterials to local streets and there is side lot frontages, the outlots need to extend around these side lot frontages (ending where the side lot meets the beginning of the curve) and include block walls.

These outlots must fully extend around the side lot frontages, the current configuration on the proposed Tentative Map fails to indicate the entire outlot area.

Street Improvements:

1. That the improvements consisting of sanitary sewers, storm sewers, water mains, communication conduit, concrete curbs, gutters, sidewalks, street lights, street subgrading and surfacing, signage and striping and all other improvements be installed in accordance with Chapter 16.24 "Improvements" of the Hanford Municipal Code, the City of Hanford's Active Transportation Plan (ATP), and this resolution pertaining to subdivision improvements in effect at the time of filing the tentative map.
2. That all corner lots meet the requirements California's daylighting law ([Assembly Bill 413](#)) prohibits parking within 20 feet of a crosswalk, marked or unmarked, to improve visibility and pedestrian safety. This statewide law, which went into effect January 1, 2024, began being enforced with citations on January 1, 2025. The goal is to give drivers more time to see pedestrians and cyclists approaching or crossing intersections, regardless of whether the curb is painted red
3. That all streets within the subdivision shall be developed as Residential Street per City Standard Details ST-32 and ST-39 with a traffic index of 6, except the following:
 - a) 9 ¼ Avenue shall be developed as a Minor Collector street with an 68 foot right of way width in conformance with City Standard. ST-17 and ST-26 and the City of Hanford's ATP, and a traffic index of 9. Developer shall be required to construct the remaining width of right of way on the east side of 9 ¼ Avenue from Grangeville Boulevard to Leland Avenue.
 - b) Developer shall construct the extension of Leland Avenue as a Minor Collector street with a 68' ultimate right of way width between 9 ¼ Avenue and 9th Avenue in conformance with City Standard ST-17 and ST-26 and the City of Hanford's ATP, and a traffic index of 9. Developer shall construct Leland Avenue to the centerline (half width) of ultimate width creating 2-eleven foot travel lanes. An asphalt dike shall be installed along the westbound travel lane edge of pavement for the full length of the Leland Avenue project frontage. To align the half width street section with the existing lane alignment established on the west side of 9 ¼ Avenue, the developer shall remove the existing lane striping and reinstall a temporary transition stripe in conformance with the Highway Design Manual to align with the travel lanes on the east side of the intersection. Stop signs, stop limit lines and stop legends shall be installed in all directions of the Leland Avenue and 9 ¼ Avenue intersection per City Standard Detail ST-47.
 - c) Developer shall construct 9th Avenue as an Arterial Street with a 100 foot ultimate right of way width in conformance with City Standard Detail ST-20 and the City of Hanford's ATP with a traffic index of 11. Developer shall be required to construct half of the raised median width for the full

length of the 9th Avenue project frontage in conformance with City Standard Detail CO-17 and CO-18. Turn pockets associated with the ultimate raised median design shall be delineated using 48" high visibility delineators in conformance with CA.M.U.T.C.D. To allow for northbound and southbound traffic on 9th Avenue, a temporary centerline striping shall be installed. A timber barricade per City Standard Detail GE-59 shall be installed on 9th Avenue at the south project boundary. Additionally, the developer will be required to coordinate with the ongoing CIP project on 9th Avenue. The coordination will include, but not be limited to, the ultimate road alignment and location requirements of the CIP Engineering Division.

- d) Grangeville Boulevard shall be developed as an Arterial Street with a modified right of way width of 84 foot in conformance with City Standard Detail ST-17 and ST-20 and the City of Hanford's ATP, with a traffic index of 11. Developer shall be required to construct the remaining width of right of way on the north side of Grangeville Boulevard between 9 ¼ Avenue and the eastern boundary of the project. A pavement transition shall be required beyond the east project boundary. The developer shall in good faith attempt to obtain an easement for purposes of pavement transition, and provide documentation of such attempt. Additionally, the developer will be required to coordinate with the ongoing CIP project on Grangeville Boulevard. The coordination will include, but not be limited to, the ultimate road alignment and location requirements of the CIP Engineering Division.
3. That streetlights be installed throughout the interior of the development and along project frontages in conformance with City standard GE-56. Streetlights shall be located as designated by City Engineer.
 4. That the development is subject to a transportation mitigation impact fee as required by City Ordinance No. 90-09 and any revisions thereof. Developer shall be entitled to a credit against subject development fee for oversizing of roadway improvements for increased traffic index constructed by developer within Grangeville Boulevard, 9 ¼ Avenue, Leland Avenue and 9th Avenue. Additionally, the developer shall be entitled to credit against the construction of 9th Avenue as determined by the City of Hanford Development Impact Fee Study dated September 2019.

Backup Parkway Improvements:

1. That the developer shall design and construct the following improvements along 9 1/4 Avenue, Leland Avenue, 9th Avenue and Grangeville Boulevard frontages of proposed subdivision.
 - a. A six (6) ft. minimum high ornamental, masonry block fence with continuous footing. Wall shall be treated with an anti-graffiti repellent. (Excluding Grangeville Boulevard). A blockwall easement will be required in any locations where a blockwall footing or foundation encroaches on private property.

- b. A sidewalk in conformance with City Standards and the City's adopted ATP.
 - c. Soil preparation, automatic irrigation and landscaping.
 - d. Landscape plans for right-of-way and a 10 ft. wide landscape easement.
2. The species of tree and plants are to be selected from a list approved by the City Street Tree Commission.
 3. That the design location of the masonry wall and landscape plans shall be approved by the Community Development Department and City Engineering Department prior to recording a subdivision final map. And the approval of block wall and landscape improvements shall be submitted with initial submittal of project improvement plans.
 4. All above ground pedestals and other utility boxes shall be located between back of sidewalk and masonry wall/fence.

Existing Wells:

1. That all existing wells on the property be abandoned in accordance with State of California standards.

Restricted Access:

1. That a one-foot reservation strip be established at the end or sides of the roads abutting unsubdivided property, and dedicated on the applicable subdivision final maps.
2. That all access be restricted from the 9th Avenue, 9 ¼ Avenue and Leland Avenue right-of-way for lots backing onto said rights-of-way. Side-lot access shall also be restricted for the following Lots: 369, 337, 336, 231, 241, 280, 299, 300, 310, 311, 101 and 102. A restricted access designation shall be depicted on all recorded final maps.
3. That the developer construct a barricade to City Standard Detail GE-59 at the end of each future through streets.

Sewer Improvements:

1. That the developer's engineer provide a sanitary sewer master plan complete with calculations for the entire subdivision for City review and approval prior to recording a subdivision final map for the first phase of development. Consideration shall be given for future areas of development located adjacent to proposed subdivision per the City Sanitary Sewer Master Plan.
2. That a minimum 12-inch diameter sanitary sewer main be installed within 9th Avenue between Leland Avenue and the southern property boundary. Applicant shall be entitled to a reimbursement for over sizing in accordance with City Municipal Code Section 13.08, or any revisions thereof.

3. That a minimum 12-inch diameter sanitary sewer main be installed within 9th Avenue between the southern property boundary and Grangeville Boulevard. Applicant shall be entitled to a reimbursement in accordance with City Municipal Code Section 13.08, or any revisions thereof.
4. That developer shall install a 12-inch sewer main in Grangeville Boulevard from 9 ¼ Avenue to project flow to a future sanitary sewer main planned for the future 9th Avenue alignment. Applicant shall be entitled to a reimbursement for over sizing in accordance with City Municipal Code Section 13.08, or any revisions thereof.
5. That a minimum 12-inch diameter sanitary sewer main be installed within Leland Avenue between 9 ¼ Avenue and 9th Avenue. Applicant shall be entitled to a reimbursement for over sizing in accordance with City Municipal Code Section 13.08, or any revisions thereof.
6. That developer is entitled to a reimbursement agreement in accordance with City Municipal Code section 13.08 for sanitary sewer main improvements constructed within 9th Avenue, Grangeville Boulevard and Leland Avenue, which also provides a benefit to others. Costs for sanitary sewer main improvements installed within the streets referenced here, if applicable, shall be per the City of Hanford Development Impact Fee Study document dated September of 2019. Reimbursement cost shall be per the Fee Study at time of improvement installation and operational acceptance.
7. The Copper Ridge development will not be issued occupancy until a sewer trunk line is installed within 9th Avenue from Grangeville Boulevard to E. Lacey Boulevard.

Storm Drainage Improvements:

1. That the developer's engineer provide a storm drainage master plan complete with calculations for the entire subdivision for City review and approval prior to recording a subdivision final map for the first phase of development. The Master Plan will determine the ultimate temporary basin location built to City Standard.
2. That the developer is required to obtain an easement and complete construction of the temporary storm drain basin with the first phase of the subdivision. The basin shall be designed in conformance with the City of Hanford's Storm Drainage Design Criteria specifications and shall include a six foot (6') high chainlink fence with privacy slats per City Standard Detail GE-23. A 24' wide drive approach per City Standard Detail CO-41 and access gates per City Standard Detail GE-26 shall also be installed.
3. That developer is required to comply with the State of California Water Resources Control Board requirements specifically related to the National Pollution Elimination System Permit process.

Water System:

1. That the developer's engineer provide a Water System Master Plan complete with calculations for the entire subdivision for City review and approval prior to recording

a subdivision final map for the first phase of development. Consideration shall be given for future areas of development located adjacent to proposed subdivision, as shown on the city Water Master Plan.

2. That a minimum 18 inch diameter water main and appurtenances, be extended along the Grangeville Boulevard project frontage. Applicant shall be entitled to a refund for water main oversizing in accordance with City Municipal Code Section 13.04. The new water main shall connect with the existing water main on 9 ¼ Avenue and shall include a blow off assembly per City Standard Detail WA-26 at the eastern terminus.
3. That a minimum 12 inch diameter water main and appurtenances, be extended along the Leland Avenue project frontage. Applicant shall be entitled to a refund for water main oversizing in accordance with City Municipal Code Section 13.04. The new water main shall connect to the existing water main at the intersection of Leland Avenue and 9 ¼ Avenue.
4. As determined by results shown in the Hydraulic Capacity Study provided by Akel Engineering, the developer shall replace approximately 550 LF of existing 8" water main and install the same LF of 10" water main on 9 ¼ Avenue from Grangeville Boulevard to approximately 550' to the north of Grangeville Boulevard.
5. That a minimum 12 inch diameter water main and appurtenances, be extended along the 9th Avenue project frontage. Applicant shall be entitled to a refund for water main oversizing in accordance with City Municipal Code Section 13.04. The new water main shall connect to the new water main at the intersection of Leland Avenue and 9th Avenue and shall include a blow off assembly per City Standard Detail WA-26 at the southern terminus.
6. That all existing water wells be abandoned in conformance with State of California Department of Health Standards.

Assessment District:

1. That the developer enters into an agreement for the formation of a Community Facilities District (CFD) for the maintenance of landscaping and outlots, decorative block wall/ fencing, roadways, streetlights, curb and gutter, sidewalk, signage, storm drain system and temporary basin and a second CFD for emergency services.
2. That prior to funds of the tax assessment district being obtained, the developer will be responsible for the maintenance of all items listed above.

Special Requirements:

1. That a right-to-farm provision be recorded with the recording of the final subdivision map to insure that future residents of the homes in the subdivision are aware of the adjacent agricultural uses and their right to continue to operate.
2. That each lot owner within Tract No. 945 shall care for and maintain the trees and lawn area located in the parkway in front of their lot(s). For corner lots, the lot owner shall also care for and maintain the parkway trees and lawn area along the street side of their lot. All species of trees shall be selected from a list approved by the City

Street Tree Commission. The parkway is defined as that land area located between the street curb and the public sidewalk.

3. That the tree(s) and lawn area are to be properly pruned, mowed, sprayed, watered and fertilized on a regular on-going basis in order to preserve the health and life of the tree(s) and lawn area.
4. That should the tree(s) and lawn area become damaged, severely pruned, neglected, removed or die, the lot owner shall replace said tree(s) and lawn area within thirty (30) days after the date of written notice from the City of Hanford. The tree(s) shall be replaced with a 15 gal. size tree of the same species that was originally planted. The lawn area shall be replaced with lawn. Rocks, bark, ground cover, plants or paving are not allowed in the parkway
5. That the "NOTICE, DISCLOSURE, ACKNOWLEDGMENT AND AGREEMENT OF CONTINUED CARE AND MAINTENANCE BY LOT OWNER OF THE TREES AND LAWN AREA PLANTED IN THE PARKWAY" be recorded concurrent with the recording of the subdivision final map to insure that future residents of homes in the subdivision are aware of the obligation to maintain the landscaping within the park strip. Each lot owner is to be provided a copy of said Notice, Disclosure, Acknowledgement, and Agreement, attached as in Exhibit B.
6. That Lots established as multi-family, particularly Lots 351-387, shall design each parcel to have one (1) shared access drive approach equaling 24' in width per City Standard Detail CO-41. If separate drive approaches are necessary, a 12' wide drive approach per City of Hanford Standard CO-38 for each garage will be required with a minimum of 22' of full height curbing in between the drive approaches. Drive approaches shall not exceed 40% of frontage.

Impact Fees:

Impact fees related to single family residential, multi-family and commercial will be assessed separately. Multi-family and Commercial must be approved through site plan review as individual project.

1. That development is subject to a Police Development Impact Fee as required by City Ordinance No. 98-14, and any revisions thereof. Fee payable with each building permit.
2. That development is subject to a Fire Development Impact Fee as required by City Ordinance No. 98-14, and any revisions thereof. Fee payable with each building permit.
3. That development is subject to a Park Development Impact Fee as required by City Ordinance No. 90-10 and any revisions thereof. Fee payable with each building permit.

4. That development is subject to a Transportation mitigation impact fee as required by City Ordinance No. 90-09 and any revisions thereof. Fee payable with each building permit.
5. That the development is subject to a Wastewater System Development Impact fee as required by City Ordinance No. 98-14, and any revisions thereof. Fee payable with each building permit.
6. That development is subject to a Storm Drainage Development Impact fee, as required by City Ordinance No. 98-14, and any revisions thereof. The development will be constructing a temporary storm basin and the City will acquire property in the future for a regional storm basin that will acquire the storm water from this development.
7. That development is subject to a Water System Development Impact Fee as required by City Ordinance No. 98-14 or any revisions thereof. Fee payable with each building permit.
8. That development is subject to a Refuse and Recycling Development Impact Fee as required by City Ordinance No. 05-16 or any revisions thereof. Fee payable with each building permit.
9. That development is subject to a Sanitary Sewer area of benefit assessment fee in accordance with City Ordinance No. 92-03 and any revisions thereof. Subject fee shall be paid prior to recording a subdivision final map.

General Comments:

1. The approval of this Tentative Map does not authorize construction or development of any multifamily or commercial uses shown on the map. Prior to any development of these areas, the applicant shall obtain Site Plan Review approval in accordance with the Hanford Municipal Code and all other applicable City regulations. Site Plan Review may include review and approval by the Planning Commission and/or City Council, as required at the time of application. If future subdivision of any multifamily or commercial parcel is proposed, additional Tentative and Final Maps or Parcel Maps shall be required in compliance with the California Subdivision Map Act (Government Code §66410 et seq.) and the Hanford Subdivision Ordinance.
2. Per the applicant's direction, the area designated for the temporary storm drainage basin shall not be further subdivided as part of the Final Maps for this subdivision. At such time as the City establishes a regional storm drainage basin to serve this area, any proposal to develop or reuse the temporary basin site shall be required to resubmit for Site Plan Review in accordance with the Hanford Municipal Code and all applicable City regulations. Upon resubmittal, the project shall be subject to all conditions and requirements in effect at that time, including the preparation and approval of a new Tentative Map(s) and any necessary Final or Parcel Maps, consistent with the California Subdivision Map Act (Government Code §66410 et seq.) and the Hanford Subdivision Ordinance.

3. Block wall easements shall be provided wherever block wall footings or foundations encroach onto private property, as determined necessary by the City Engineer. Such easements shall be dedicated on the Final Map.
4. A Declaration of Temporary Building Restrictions shall be recorded concurrently with the Final Map, encompassing the area designated for the temporary storm drainage basin. The restriction shall prohibit any building or structural development within the designated basin area until such time as the City establishes a regional storm drainage facility and the property is subsequently entitled for development through the required Site Plan Review and Subdivision Map Act processes. The document shall be prepared in a form acceptable to the City Attorney and City Engineer and shall be recorded with the Kings County Recorder's Office at the time of final map recordation.

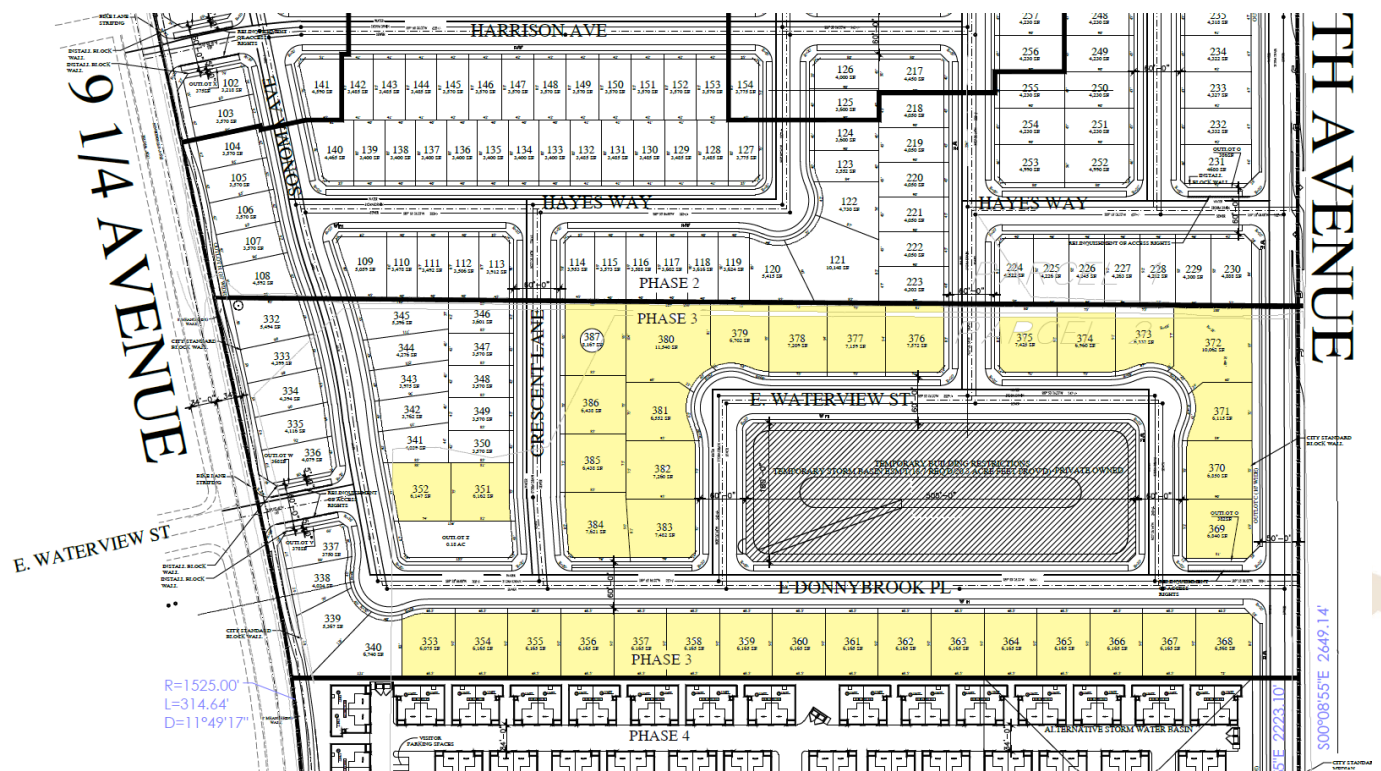


October 13, 2025

Memorandum addressing Planning Commission Agenda and Staff Report Change

RE: Copper Ridge: Annexation 165, General Plan Amendment No. 0009024, Prezone No. 0013-24, Tentative Subdivision Map No. 0012-24, Planned Unit Development No. 0037-24, and Mitigated Negative Declaration No. 2025-73

Please note, lots 351 through 387 (highlighted in yellow) shown in Phase 3 of Tentative Subdivision Map No. 0012-24 (TT 945) are intended to be developed as duplex lots. The original agenda and staff report refer to these lots as single-family lots. This results in 650 total units, 350 single-family units and 300 multi-family units. The corrected lot count and unit count are reflected in the staff report, showing the tracked changes.



Note: The environmental document and the public notice accurately reflect the correct project description, showing 650 total units (350 single-family residential units and 300 multi-family units).

Adoption of amended resolutions, reflecting the corrected unit totals, will be required.



Very Respectfully,

Gabrielle Myers

Gabrielle de Silva Myers

Principal Planner

City of Hanford

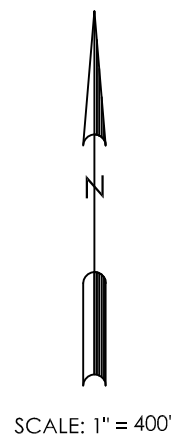
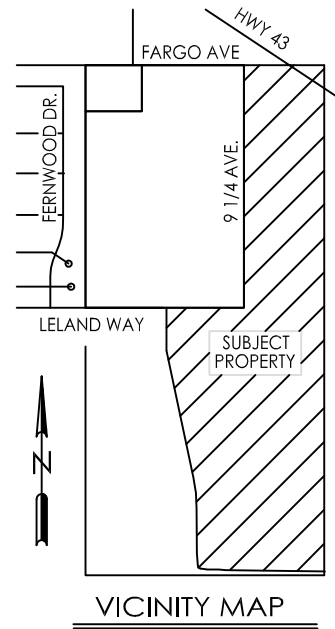
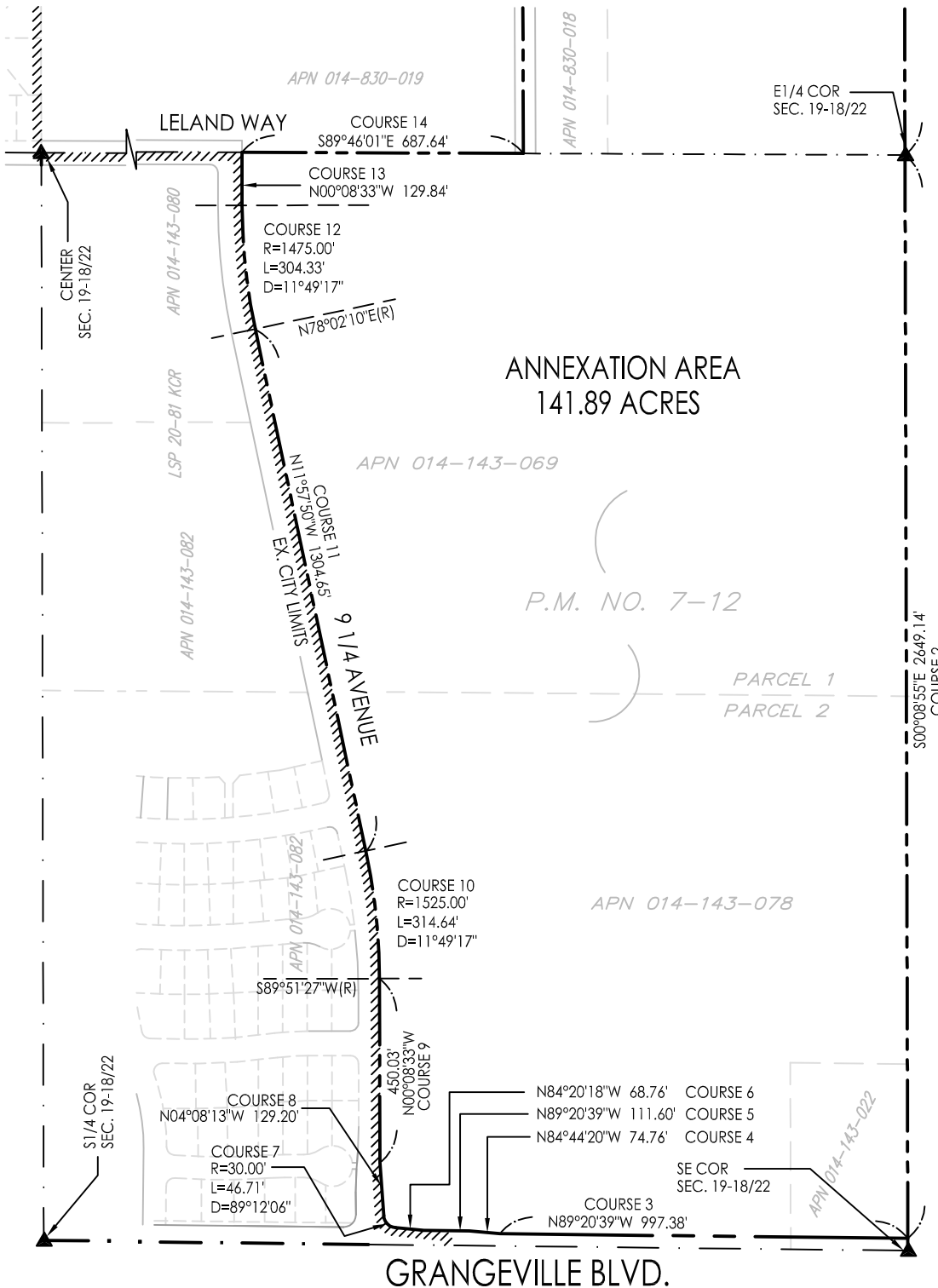
317 N. Douty Street

Hanford, CA 93230

Direct: (559)585-2578

E-mail: gmyers@cityofhanfordca.com

(SEE EXHIBIT B-2)



DATE: 1-3-25

DRAWN: BM

CHECKED: BB

PROJECT: 24186

EXHIBIT B-1

CITY OF HANFORD

ANNEXATION NO. 2025 -

ANNEXATION TO THE CITY OF HANFORD

BLS

Borum Land Surveying Inc.

www.borumlandsurveying.com

1445 W. Grand Ave. Ste. C

Grover Beach, Ca 93433

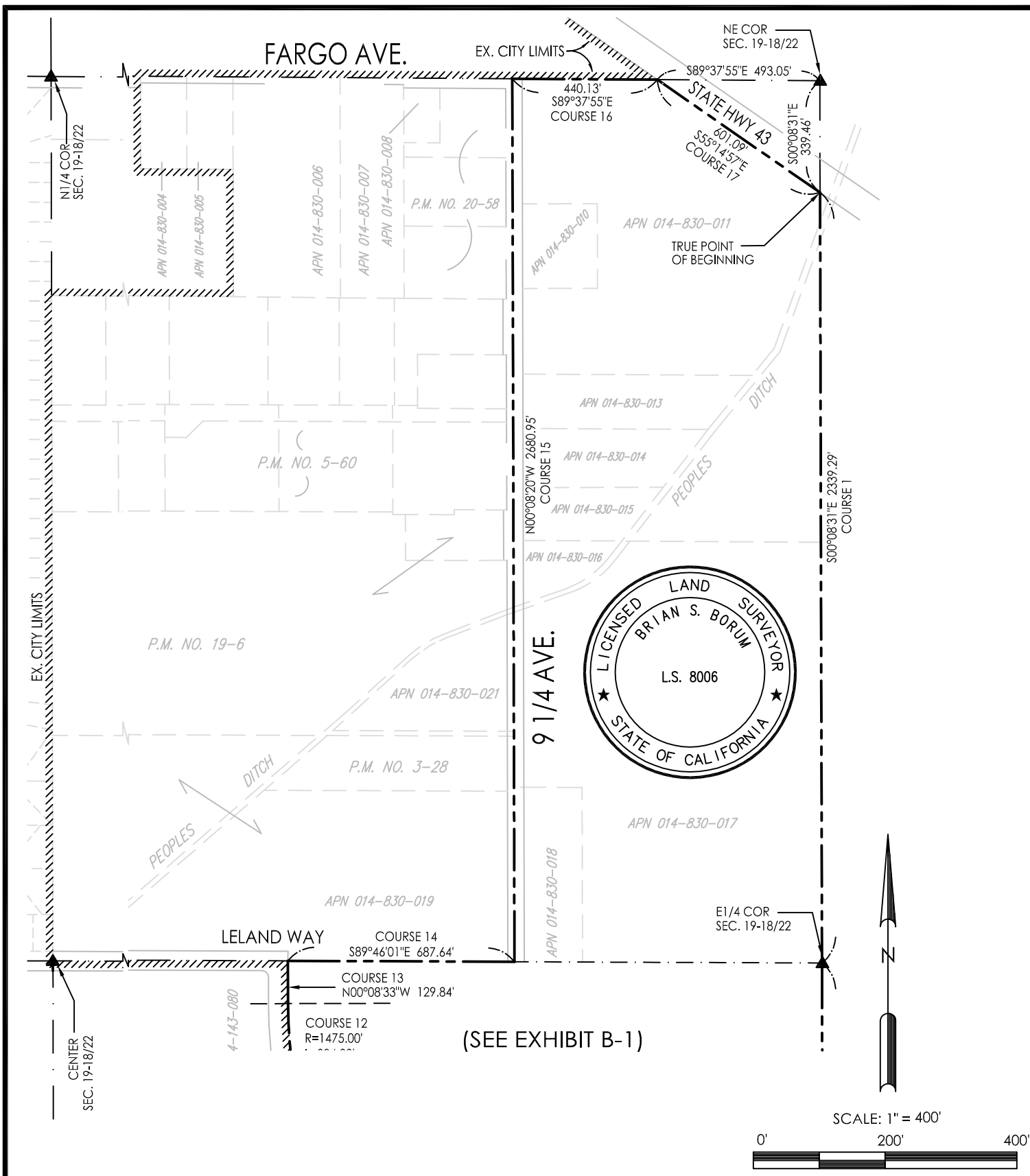


Exhibit A
Geographic Description
City of Hanford
Annexation 2025-_____
Annexation to the City of Hanford

That portion of the East Half of Section 19, Township 18 South, Range 22 East, Mount Diablo Meridian in the County of Kings, State of California, described as follows:

Beginning at the Northeast Corner of said Section 19 thence S00°8'31"E along the East line of said Northeast Quarter, a distance of 339.46 feet to the **True Point of Beginning**;

Course 1: Thence continuing S00°08'31"E along said East line a distance of 2339.29 feet to the East Quarter corner of said Section 19:

Course 2: Thence S00°08'55"E along the East line of the Southeast Quarter a distance of 2649.14 feet to a point on the North right of way line of Grangeville Blvd. located 30 feet north of the Southeast corner of said section 19;

Course 3: Thence N89°20'39"W along said North right of way line a distance of 997.38 feet, thence continuing along said North right of way the following courses;

Course 4: Thence N84°44'20"W a distance of 74.76;

Course 5: Thence N89°20'39"W a distance of 110.60 feet;

Course 6: Thence N84°20'18"W a distance of 68.76 feet to the termination of said North right of way line and the beginning of a tangent curve concave Northeasterly with a radius of 30 feet and a central angle of 89°12'06";

Course 7: Thence Northerly along said curve a distance of 46.71 feet;

Course 8: Thence N04°08'13"W along the Easterly right of way of 9 ¼ Ave a distance of 129.20 feet thence continuing along said Easterly right of way the following courses;

Course 9: Thence N00°08'33"W a distance of 450.03 feet to a tangent curve concave Westerly with a radius of 1525 feet and a central angle of 11°49'17";

Course 10: Thence Northerly along said curve a distance of 314.64 feet;

Course 11: Thence N11°57'50"W a distance of 1304.65 feet to the beginning of a tangent curve concave Easterly with a radius of 1475.00 feet and a central angle of 11°49'17";

Course 12: Thence northerly along said curve a distance of 304.33 feet;

Course 13: Thence N00°08'33"W a distance of 129.84 feet to a point on the North line of the Southeast Quarter of said Section 19 and the termination of said Easterly right of way of 9 ¼ Ave.;

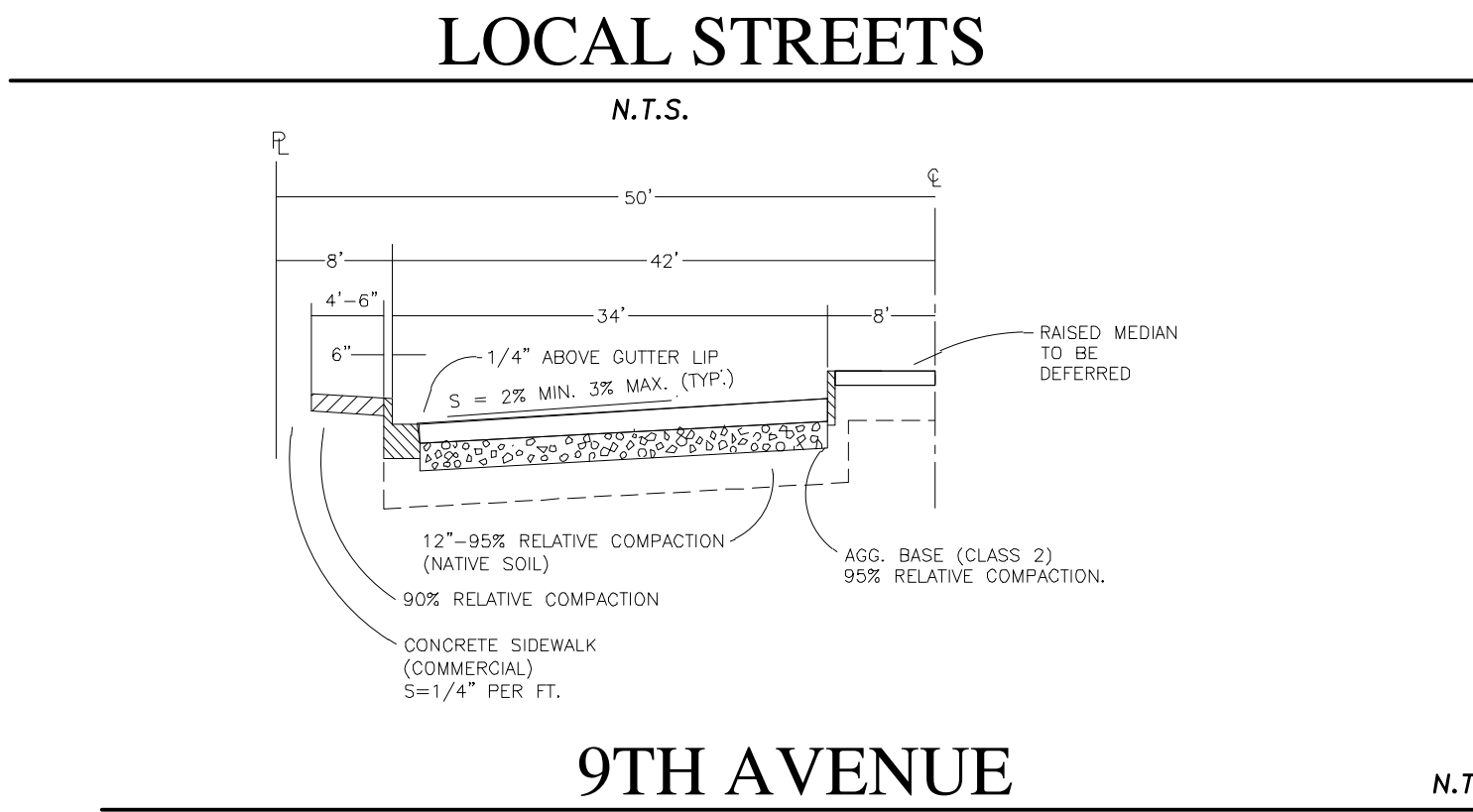
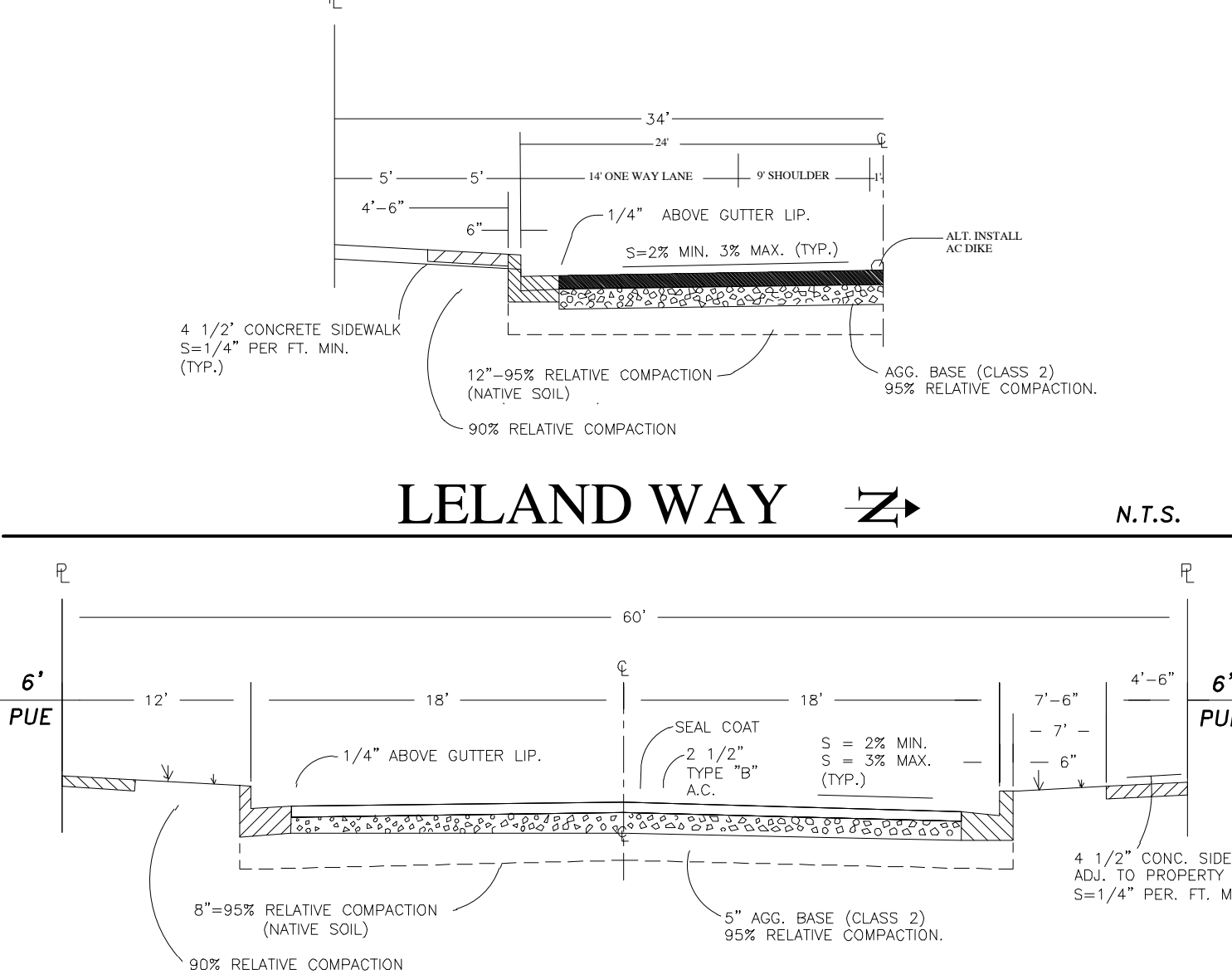
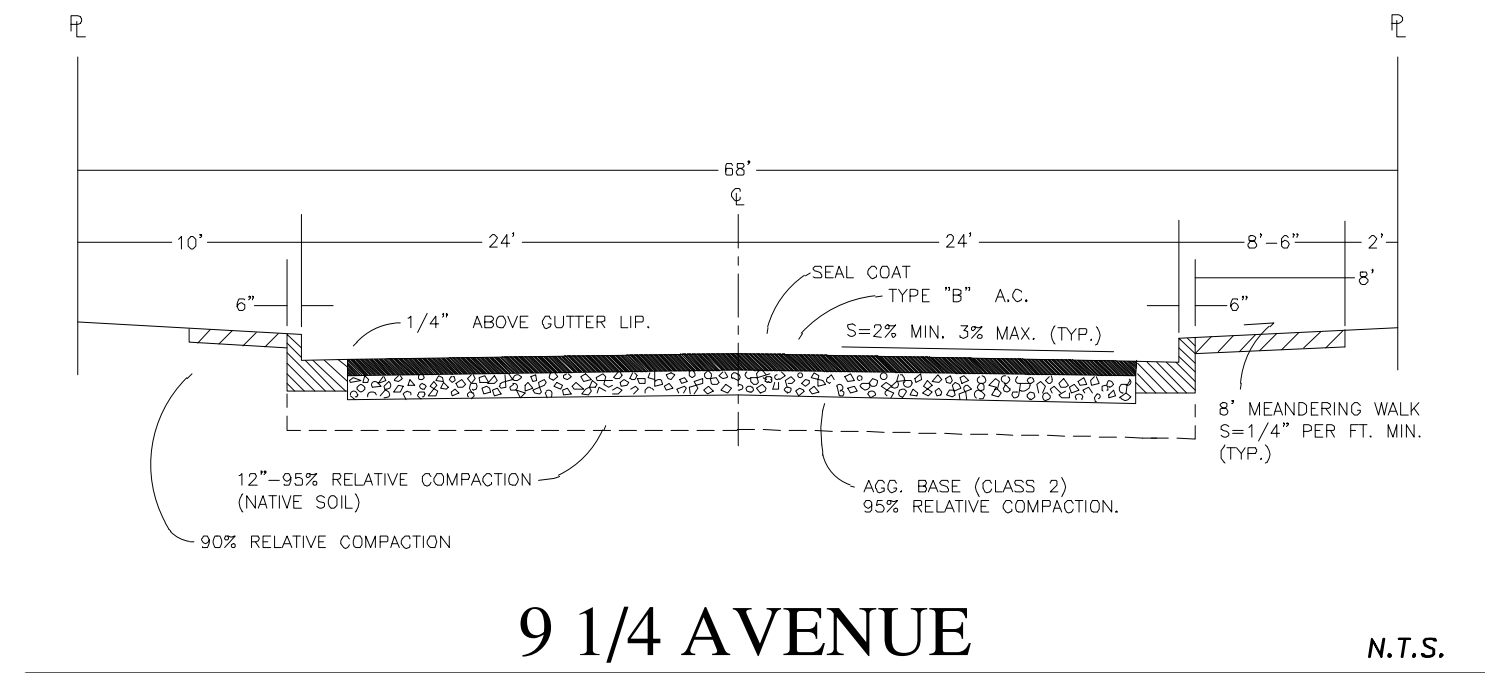
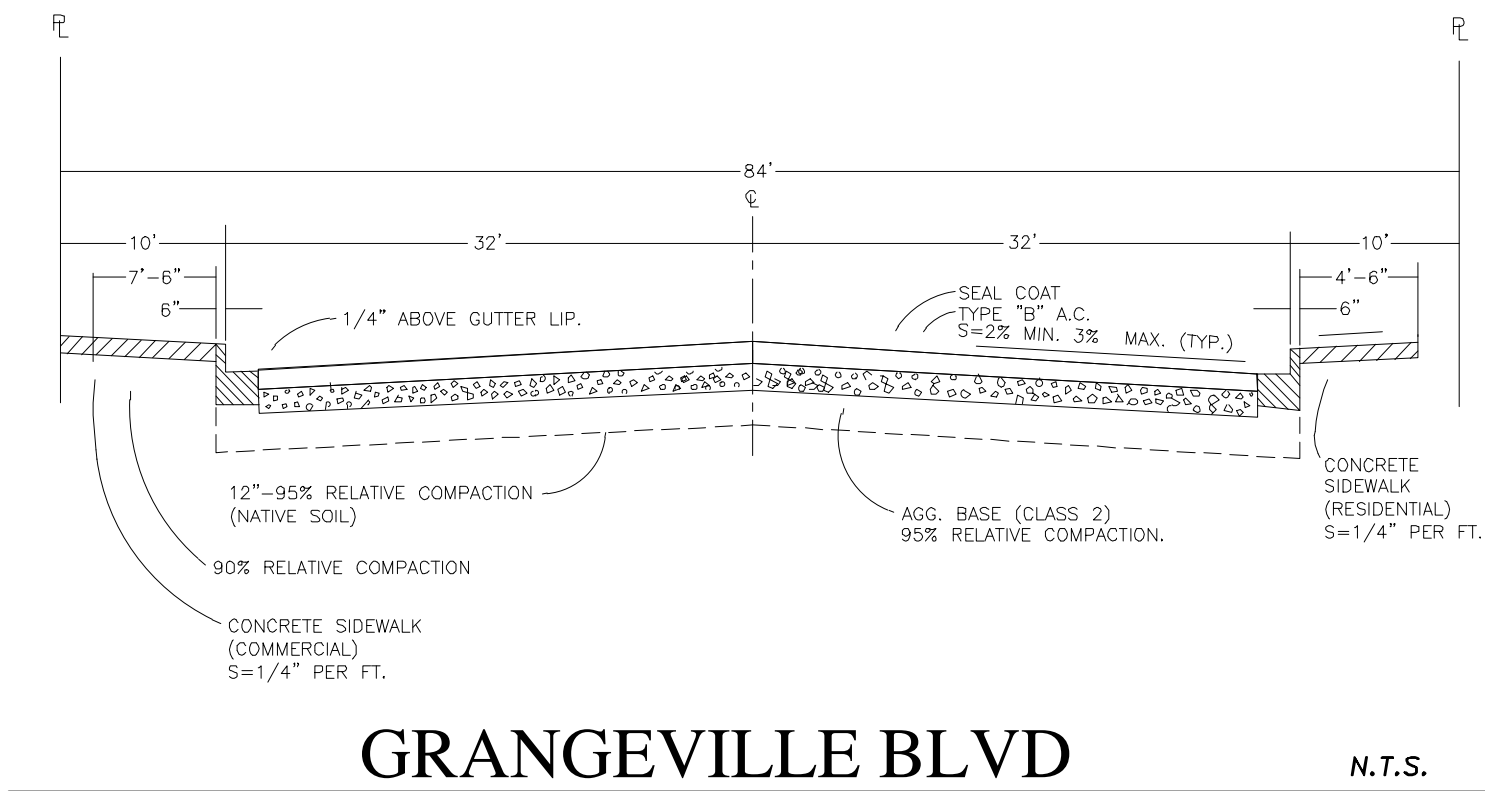
Course 14: Thence S89°46'01"E along the North line of said Southeast Quarter a distance of 687.64 feet to the centerline of 9 ¼ Ave.;

Course 15: Thence N00°08'20"W a distance of 2680.95 feet to a point on the North line of the Northeast Quarter 933.18 feet West of the Northeast Corner of said Section 19;

Course 16: Thence S89°37'55"E along the North Line of said Northeast Quarter a distance of 440.13 feet to a point on the Southwesterly right of way line of State Hwy 43. Said point being located 493.05 feet West of the Northeast Corner of said Section 19;

Course 17: Thence S55°14'57"E along said Southwesterly right of way line a distance of 601.09 feet to the **True Point of Beginning**.

Containing 141.89 acres, more or less.



OWNER
WARMERDAM FAMILY TRUST
10426 EXCELSIOR AVE. HANFORD, CA, 93230
DADIGIAN FAMILY TRUST 2001
2491 16TH AVE. KINGSBURG, CA, 93631

DEVELOPER
N & M CAPITAL LLC
GREG NUNLEY (559)799-6993
1878 N MOONEY BLVD SUITE J
TULARE, CA 93274

PROJECT INFO
NORTH EAST CORNER OF 9 1/4 AVENUE AND GRANGEVILLE BLVD
APN: 014-143-069, 014-143-078
TOTAL AREA: 83.61 AC
EXIST. USE: VACANT/ AG
PROPOSED USE: SINGLE FAMILY PUD, NEIGHBORHOOD COMMERCIAL
FLOOD ZONE: X
SEWER: CITY OF HANFORD
WATER: CITY OF HANFORD
STORM DRAIN: CITY OF HANFORD
MIN. LOT SIZE: 2,800 SF; MAX. LOT SIZE: 11,540 SF
SINGLE FAMILY UNITS: 350
MULTI FAMILY UNITS: 300
RESIDENTIAL ACREAGE: 78.16 AC
DENSITY: 8.31 UNITS/AC
COMMERCIAL ACREAGE: 5.45 AC
OUTLOTS A-I TO BE DEDICATED TO CITY OF HANFORD
B.M.: CITY OF HANFORD #45B-ELEV:253.51 (2021 DATUM)

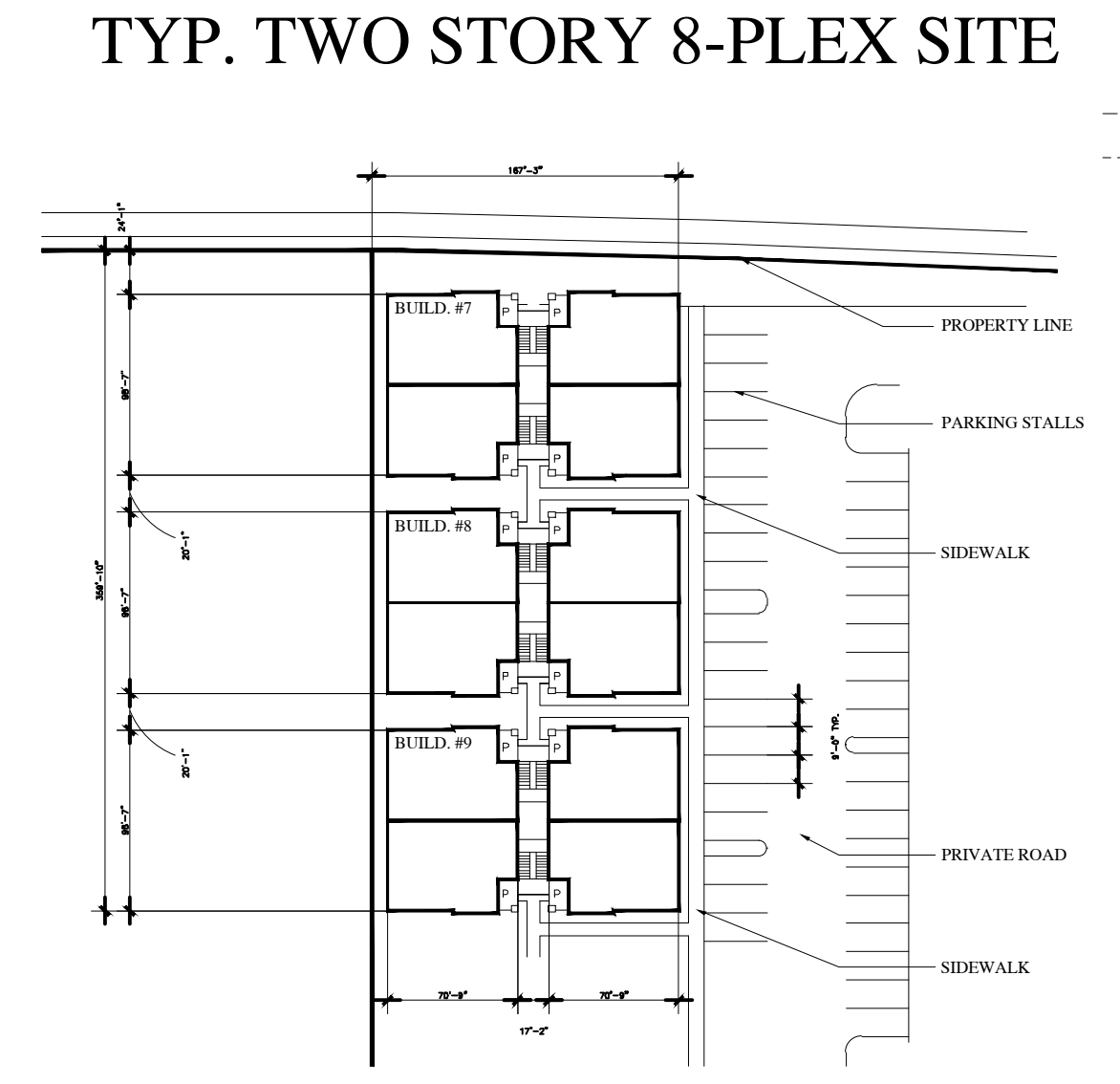
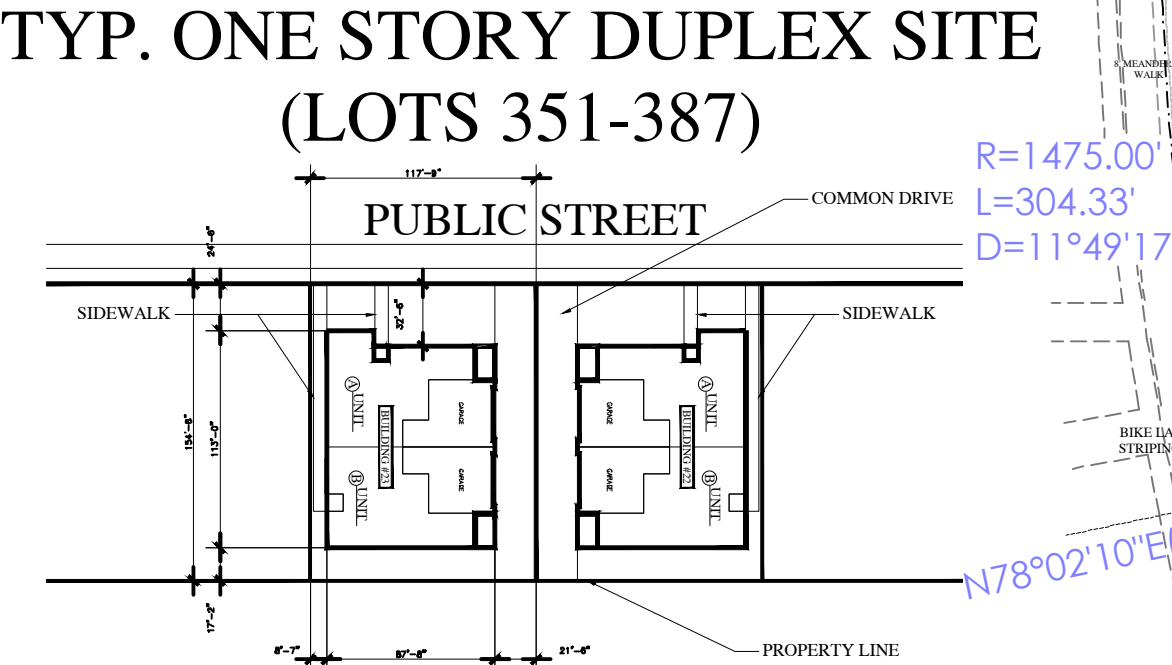
PHASES INFO					
PHASE 1	181 UNITS	40' WIDE LOTS: 115	45' WIDE LOTS: 66	MULTI FAMILY UNITS: 0	RETAIL: 0 SF
PHASE 2	150 UNITS	40' WIDE LOTS: 91	45' WIDE LOTS: 59	MULTI FAMILY UNITS: 0	RETAIL: 0 SF
PHASE 3	89 UNITS	40' WIDE LOTS: 19	45' WIDE LOTS: 0	MULTI FAMILY UNITS: 74	RETAIL: 0 SF
PHASE 4	110 UNITS	40' WIDE LOTS: 0	45' WIDE LOTS: 0	MULTI FAMILY UNITS: 106	RETAIL: 0 SF
PHASE 5	120 UNITS	40' WIDE LOTS: 0	45' WIDE LOTS: 0	MULTI FAMILY UNITS: 120	RETAIL: 37,700 SF
TOTAL	650 UNITS	40' WIDE LOTS: 225	45' WIDE LOTS: 125	MULTI FAMILY UNITS: 300	RETAIL: 37,700 SF

TRACT NO. 945 TENTATIVE SUBDIVISION MAP COPPER RIDGE

HANFORD CALIFORNIA
OCTOBER 8, 2025

LEGAL DESCRIPTION
Real property in the unincorporated area of the County of Kings, State of California, described as follows:
ALL THAT PORTION OF THE SOUTHEAST QUARTER OF SECTION 19, TOWNSHIP 18 SOUTH, RANGE 22 EAST, MOUNT Diablo CREEK AND MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF, SHOWN AS PARCEL 239 PARCEL MAP RECORDED IN BOOK 7 AT PAGE 12, OF PARCEL MAPS, KINGS COUNTY.
EXCEPTING THEREFROM UNTO A. M. WARMERDAM AN UNDIVIDED ONE-FOURTH INTEREST IN AND TO ALL OF THE OIL, GAS, MINERAL AND MINERAL RIGHTS IN AND UNDER SAID LAND, AS EXCEPTED AND RESERVED IN DEED DATED JUNE 5, 1975 IN BOOK 1652 PAGE 649 AS DOCUMENT NO. 6092 OF OFFICIAL RECORDS.
ALSO EXCEPTING THEREFROM THAT PORTION COMVEYED TO HANFORD ELEMENTARY SCHOOL DISTRICT IN AND TO THAT PORTION OF SAID LAND DESCRIBED IN DEED RECORDED JANUARY 30, 2004 AS DOCUMENT NO. 0402594, KINGS COUNTY OFFICIAL RECORDS.
ALSO EXCEPTING THEREFROM THAT PORTION COMVEYED TO MELLODD DEVELOPMENT INC., A CALIFORNIA CORPORATION IN DEED RECORDED APRIL 25, 2005 AS INSTRUMENT NO. 09-12268 OF OFFICIAL RECORDS.
ALSO EXCEPTING THEREFROM THAT PORTION OF LAND COMVEYED TO THE CITY OF HANFORD, A MUNICIPAL CORPORATION, IN GRANT DEED RECORDED OCTOBER 09, 2013 AS INSTRUMENT NO. 1310090 OF OFFICIAL RECORDS.
APN: 014-143-078-000

LEGAL DESCRIPTION
Real property in the unincorporated area of the County of Kings, State of California, described as follows:
Parcel No. 1 of Parcel Map of that Parcel Map recorded in Book 2 of Parcel Maps at Page 93, Kings County Records in the Southeast Quarter of Section 19, Township 18 South, Range 22 East, Mount Diablo Base and Meridian filed June 17, 1989 in Book 7 of Parcel Maps at Page 12, Kings County Records.
Excepting therefrom that portion conveyed to Hanford Elementary School District, described in Deed recorded January 29, 2004 as Instrument No. 2004-2592 of Official Records, Kings County.
Also excepting therefrom that portion conveyed to the City of Hanford, by Deed recorded February 06, 2004 as Instrument No. 2004-3241 of Official Records, Kings County.
Also excepting therefrom that portion conveyed to The City of Hanford, a Municipal Corporation by Deed recorded October 25, 2004 as Instrument No. 2004-31953 of Official Records, Kings County.
And also excepting therefrom unto A.M. Warmerdam an undivided one-fourth interest in and to all of the oil, gas, minerals and mineral rights in and under said land, as excepted and reserved in deed recorded July 2, 1975 as Instrument No. 6992 in Book 1032 at Page 649, Official Records.
APN: 014-143-069-000



UNPLOTTABLE EASEMENTS

THE EFFECT OF RIGHT OF WAY OVER SAID PROPERTY AS DISCLOSED IN DEED FROM SAMUEL PAGE AND NANCY PAGE, HUSBAND AND WIFE, TO MARY A. GARVER, DATED JULY 5, 1892 AND RECORDED JULY 28, 1892 IN BK 54, PG 602 OF DEEDS, TULARE COUNTY.

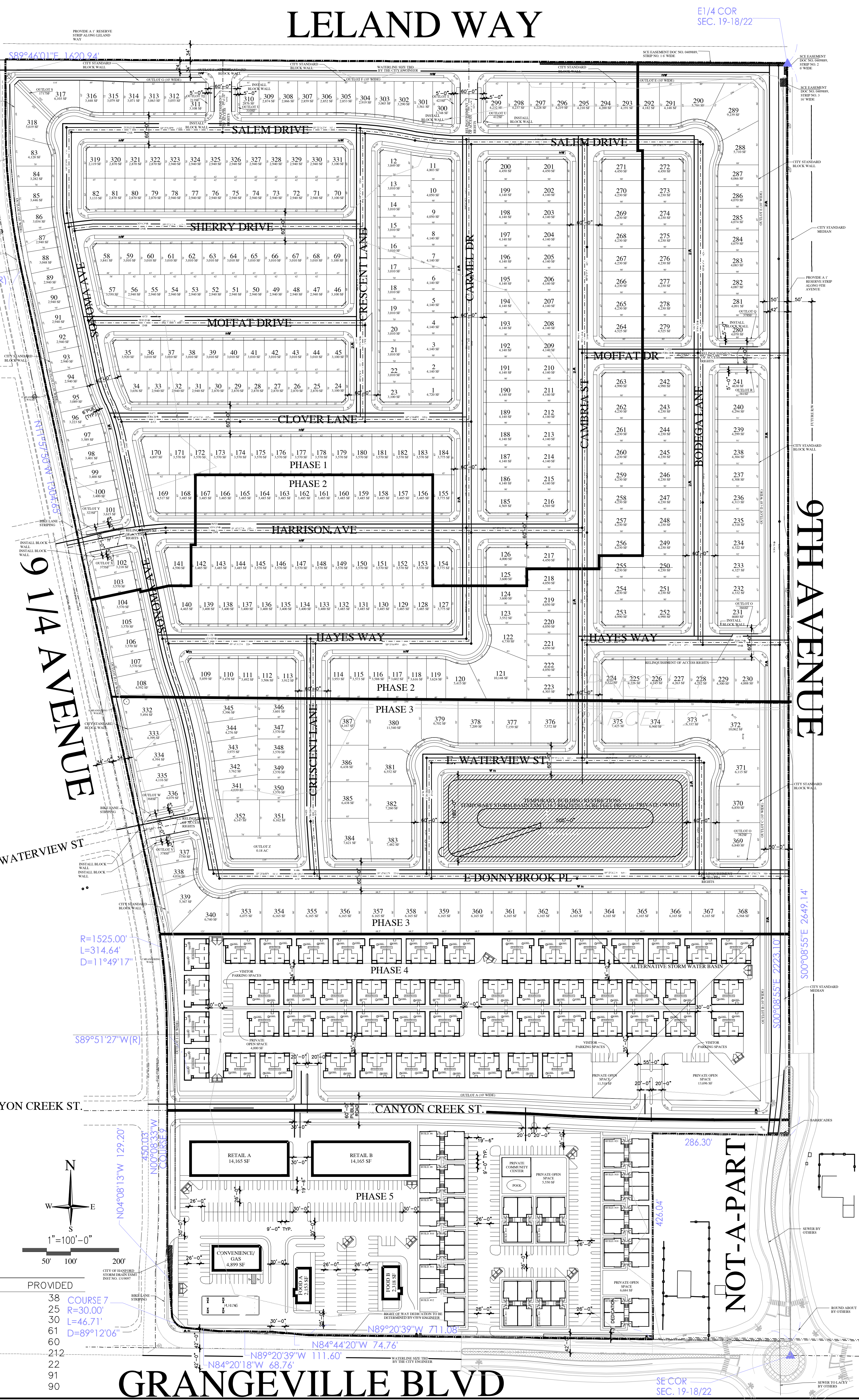


VICINITY MAP
NOT TO SCALE

PARKING INFO

LAND USE	REQUIRED	PROVIDED
CONV./GAS	17	38
FOOD A	15	25
FOOD B	16	30
RETAIL A	48	61
RETAIL B	48	60
PHASE 4 MULTIFAM. COVERED	199	212
PHASE 4 MULTIFAM. UNCOVERED	0	22
PHASE 5 MULTIFAM. COVERED	85	91
PHASE 5 MULTIFAM. UNCOVERED	85	90

R=1475.00'
L=304.33'
D=11°49'17"



REVISIONS		DATE	BY
1			
2			
3			
4			

REVISIONS
DATE
BY

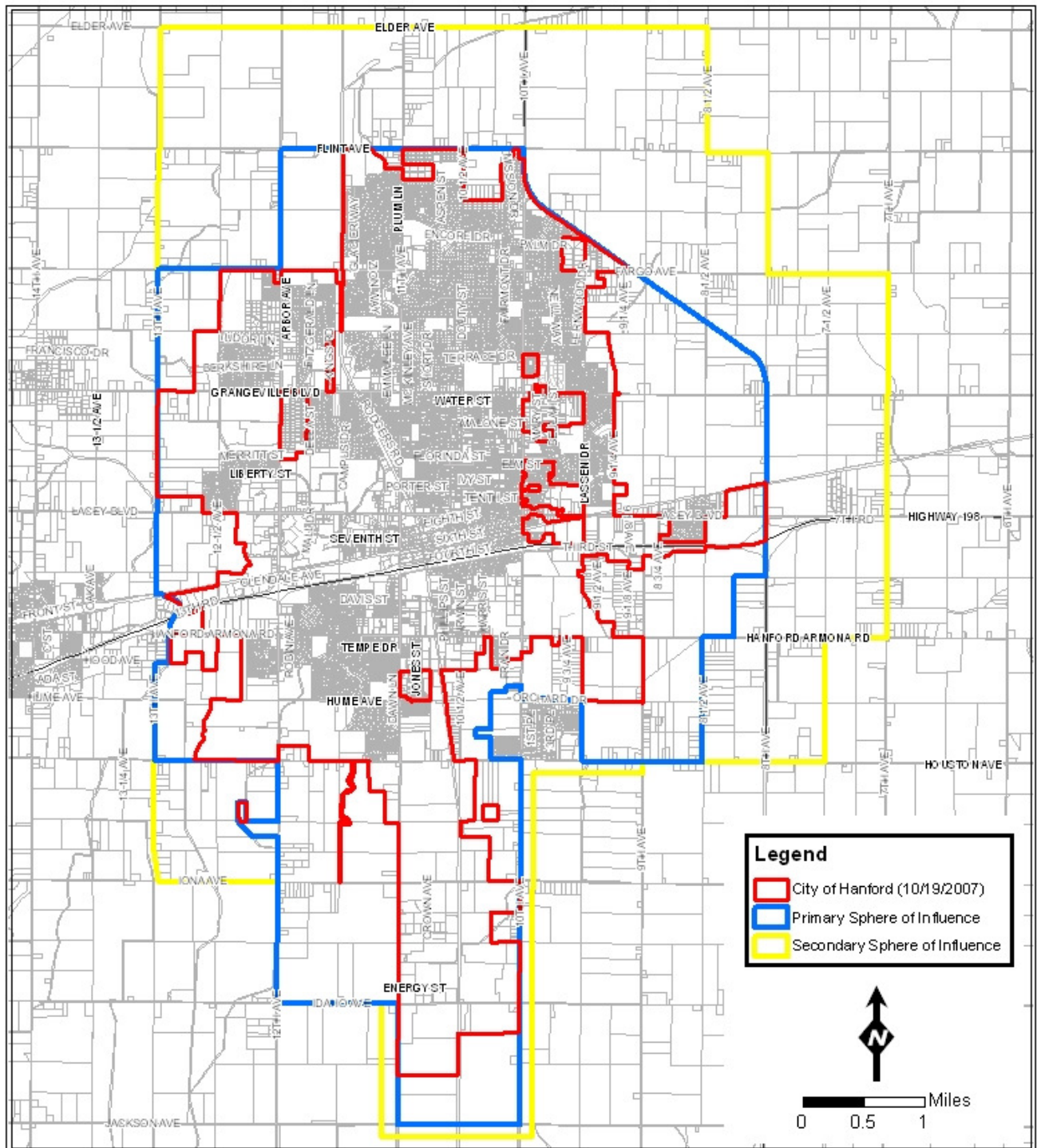
810 WEST ACEQUIA AVENUE
VISALIA, CA 93292
(559) 713-6139
overengineering09@gmail.com

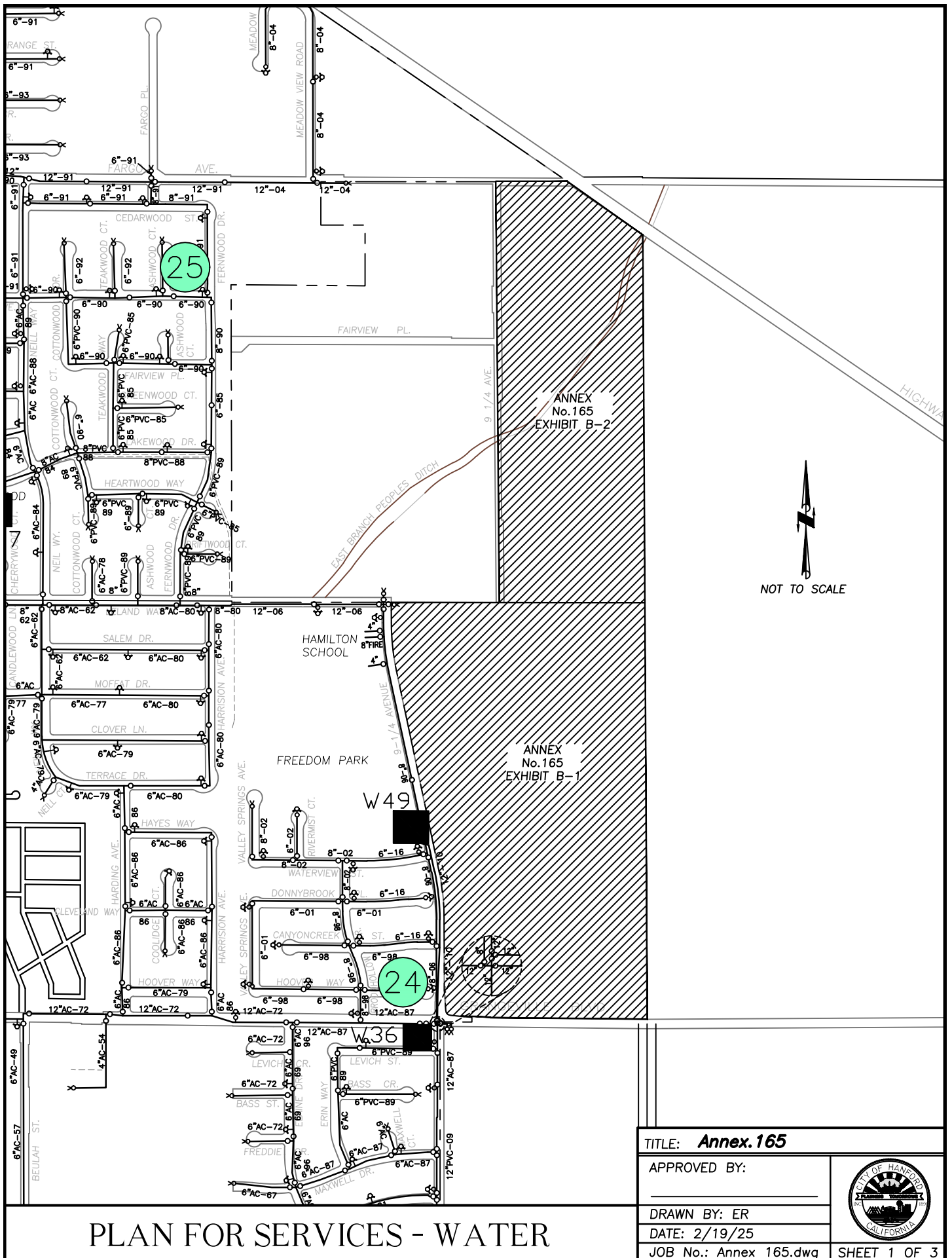
TENTATIVE SUBDIVISION MAP
COPPER RIDGE
HANFORD CALIFORNIA

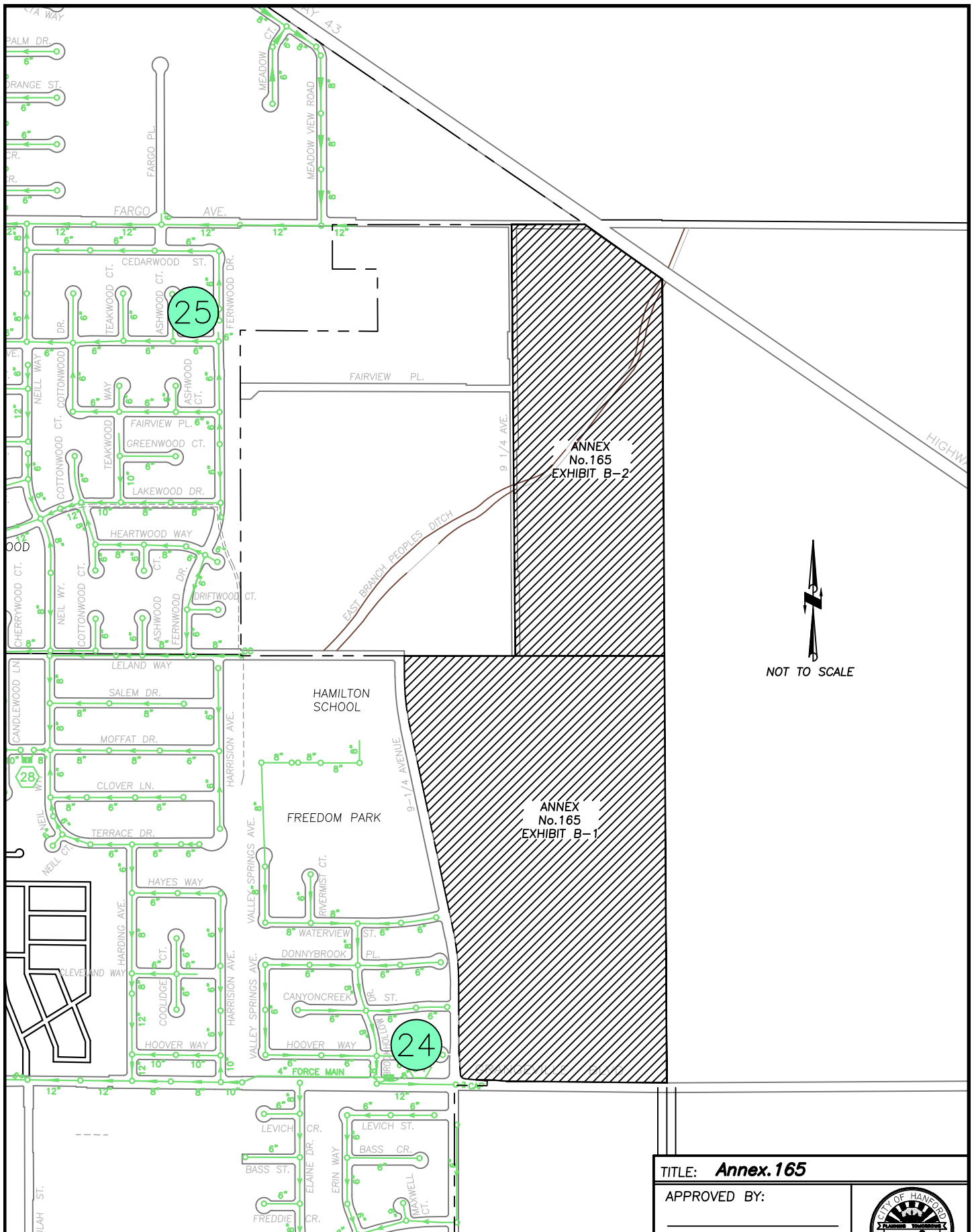
SITE
JOB NUMBER



Exhibit C **CITY OF HANFORD** **2008 SPHERE OF INFLUENCE**

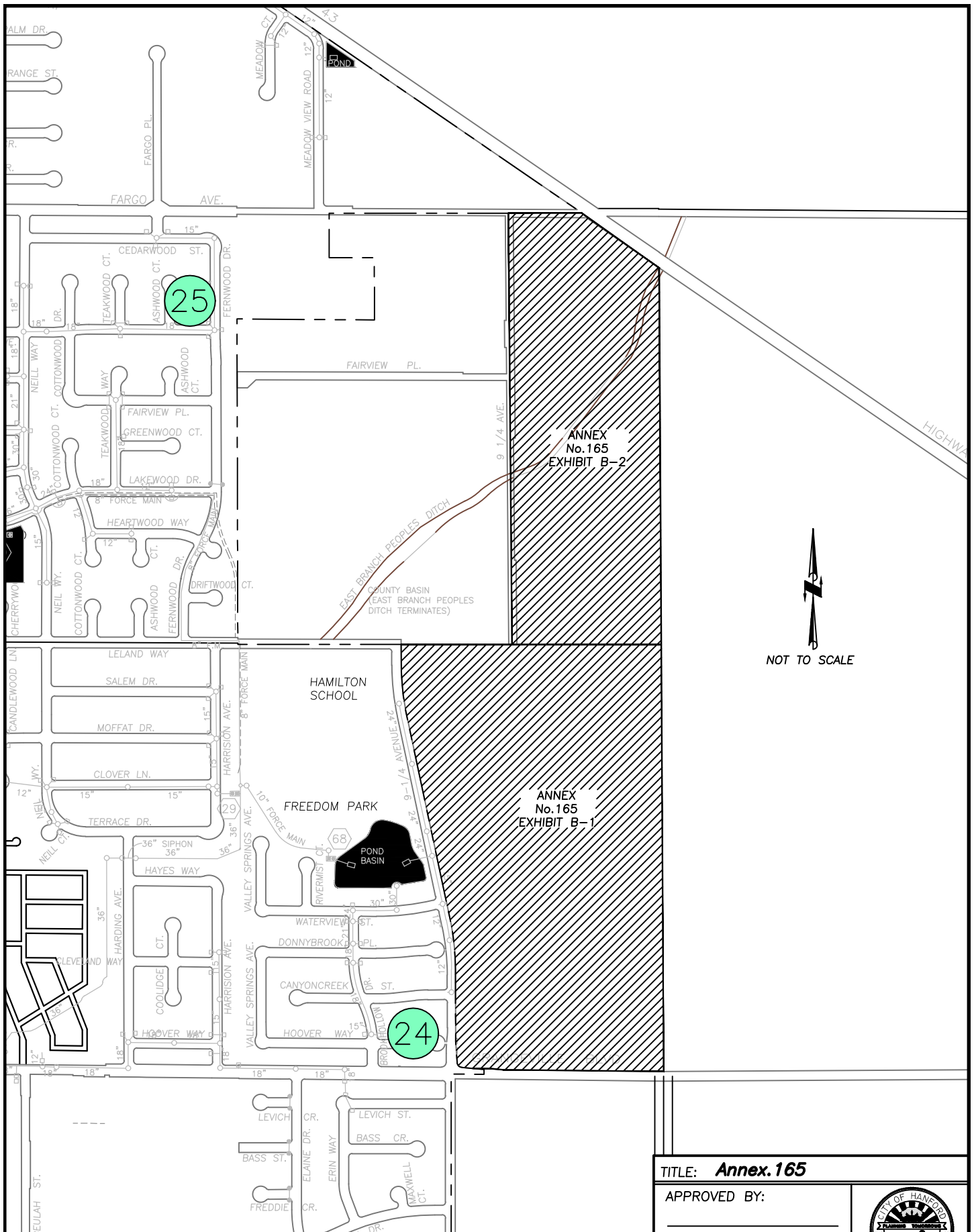






PLAN FOR SERVICES - SANITARY SEWER

TITLE: Annex.165		
APPROVED BY: _____		
DRAWN BY: ER		
DATE: 2/19/25		
JOB No.: Annex 165.dwg		
		SHEET 2 OF 3



PLAN FOR SERVICES - STORM DRAIN





HOUSE PLAN 1

FIRST FLOOR: 589 SF
SECOND FLOOR: 824 SF
TOTAL 1,413 SF

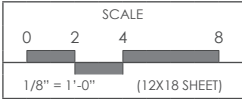
HOUSE PLAN 2

FIRST FLOOR: 659 SF
SECOND FLOOR: 905 SF
TOTAL 1,564 SF

HOUSE PLAN 3

FIRST FLOOR: 752 SF
SECOND FLOOR: 935 SF
TOTAL 1,687 SF

ELEVATIONS
“TRADITIONAL”





HOUSE PLAN 1

FIRST FLOOR: 589 SF
SECOND FLOOR: 824 SF
TOTAL 1,413 SF

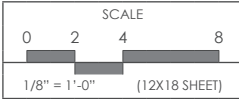
HOUSE PLAN 2

FIRST FLOOR: 659 SF
SECOND FLOOR: 905 SF
TOTAL 1,564 SF

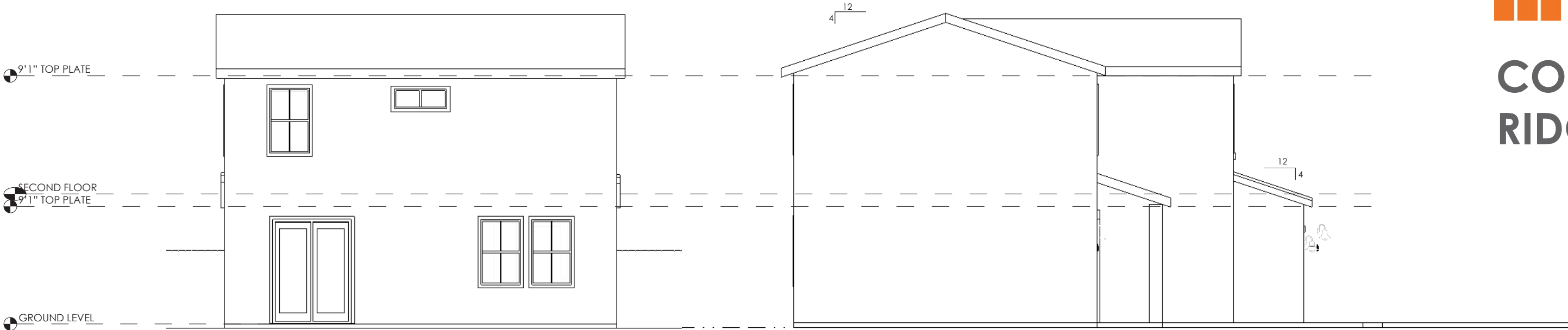
HOUSE PLAN 3

FIRST FLOOR: 752 SF
SECOND FLOOR: 935 SF
TOTAL 1,687 SF

ELEVATIONS
“FARMHOUSE”

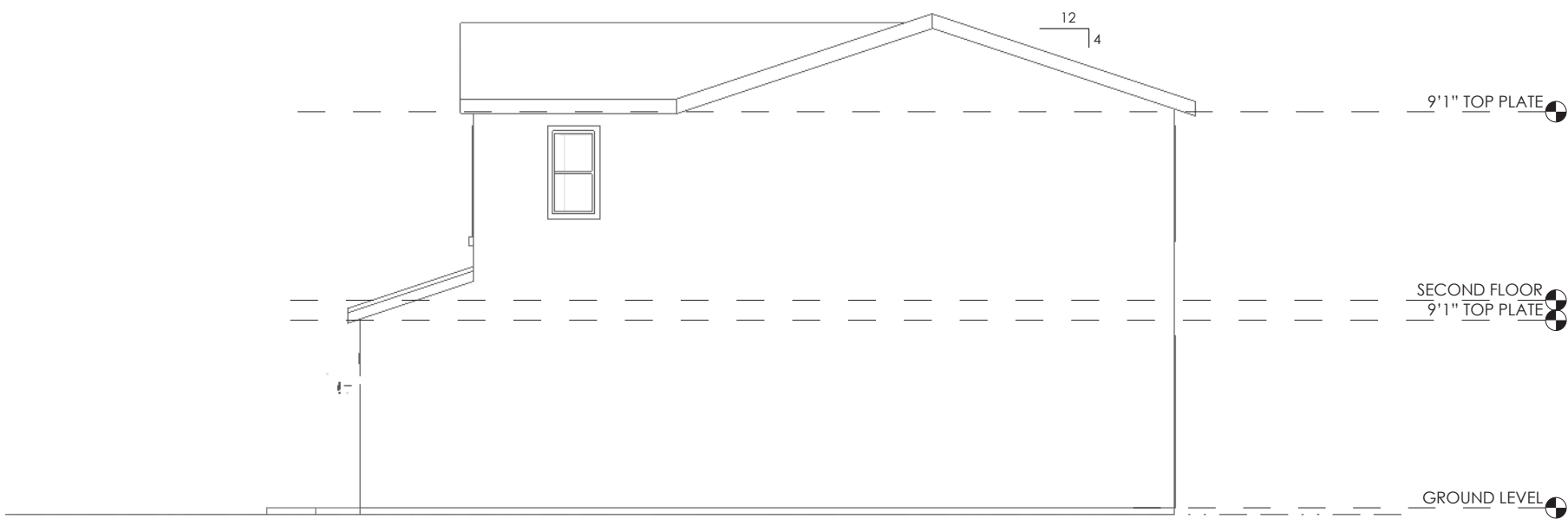


COPPER
RIDGE



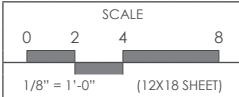
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

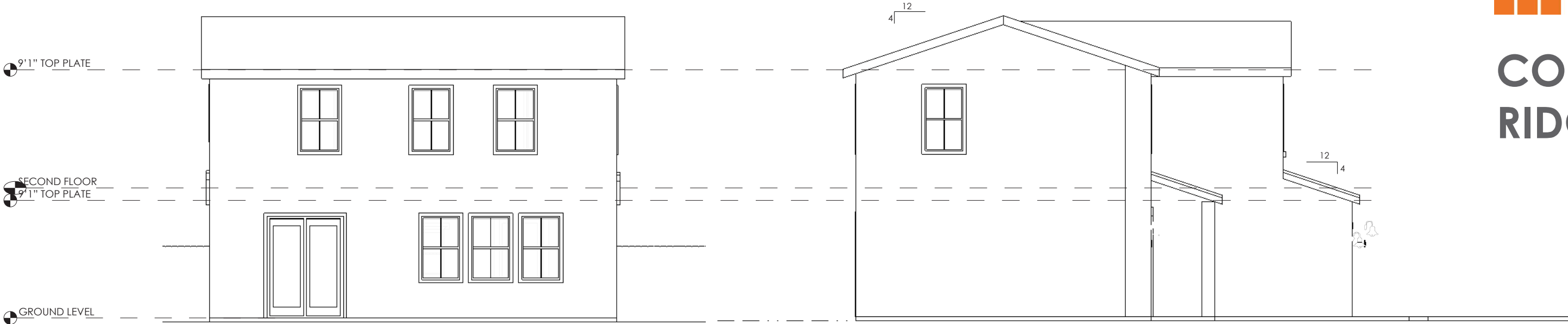
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

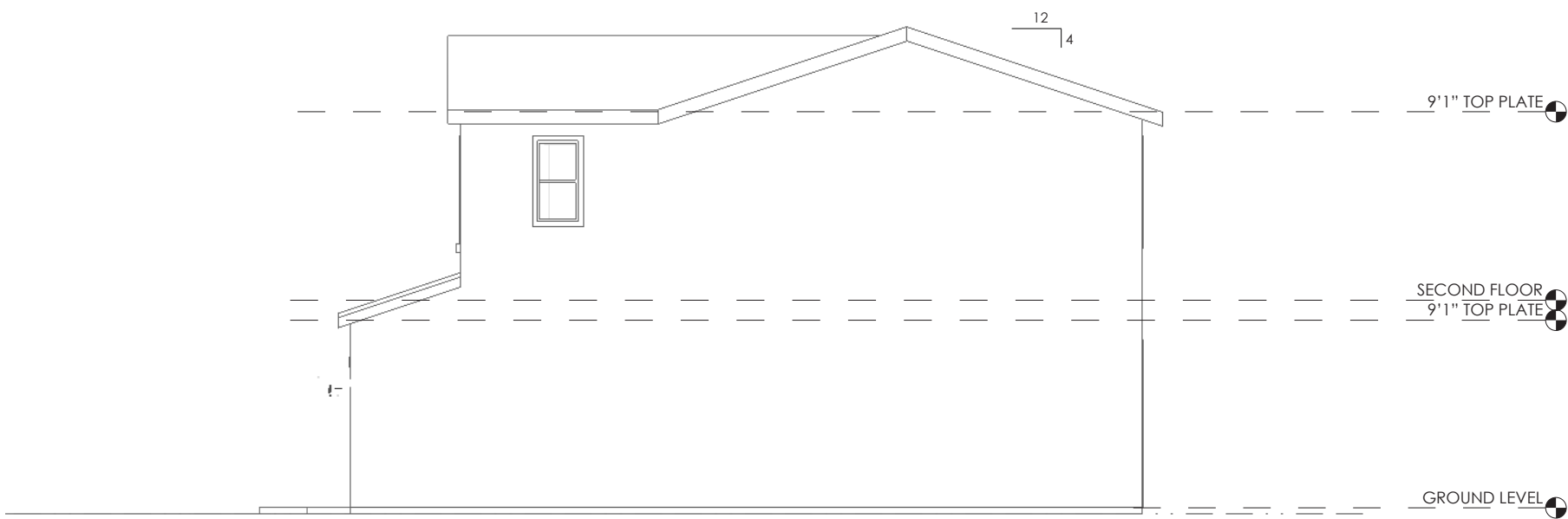
ELEVATIONS
PLAN 1





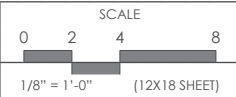
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



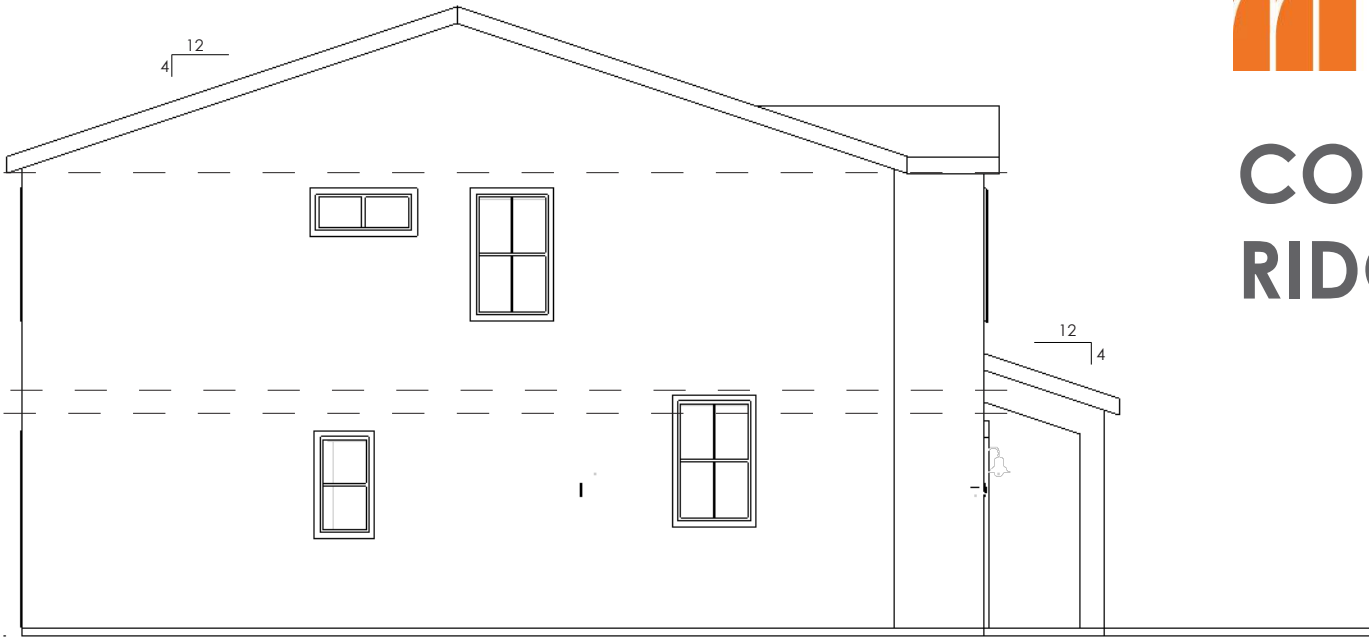
3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

ELEVATIONS
PLAN 2

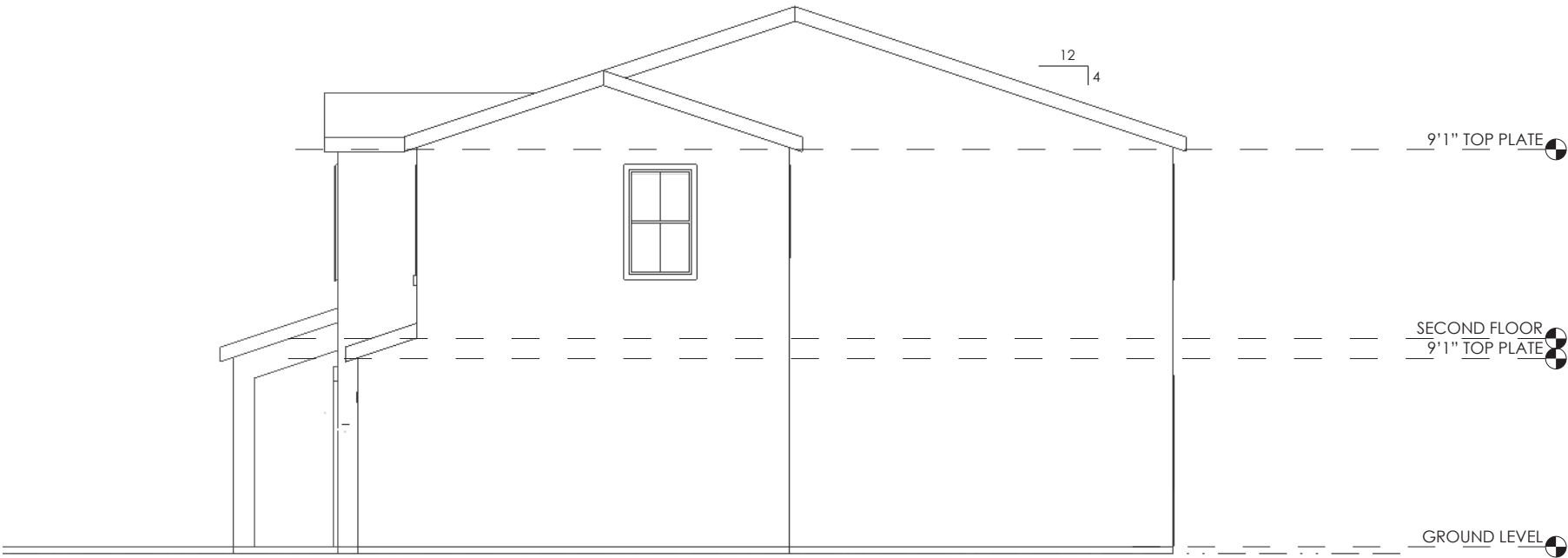




1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

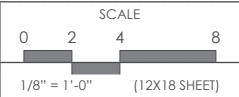


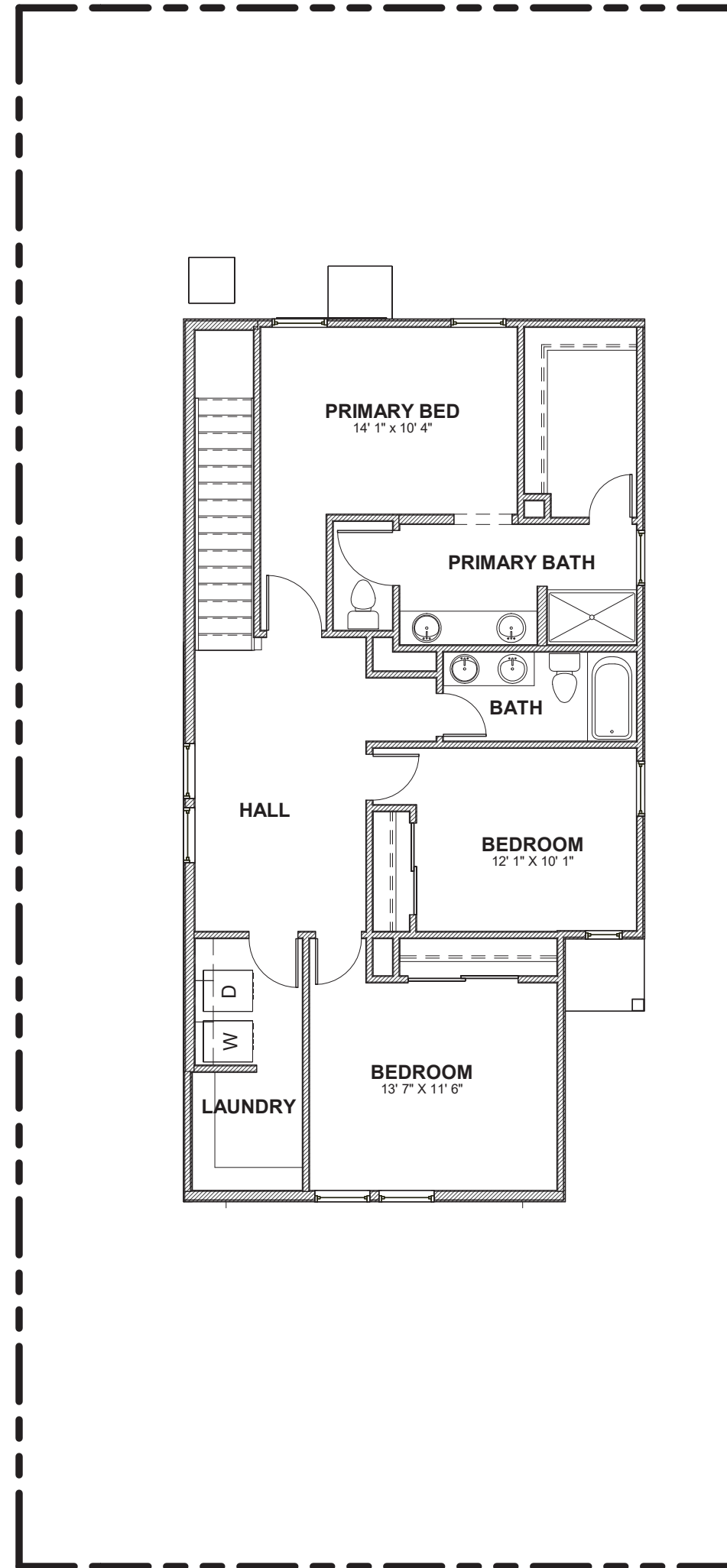
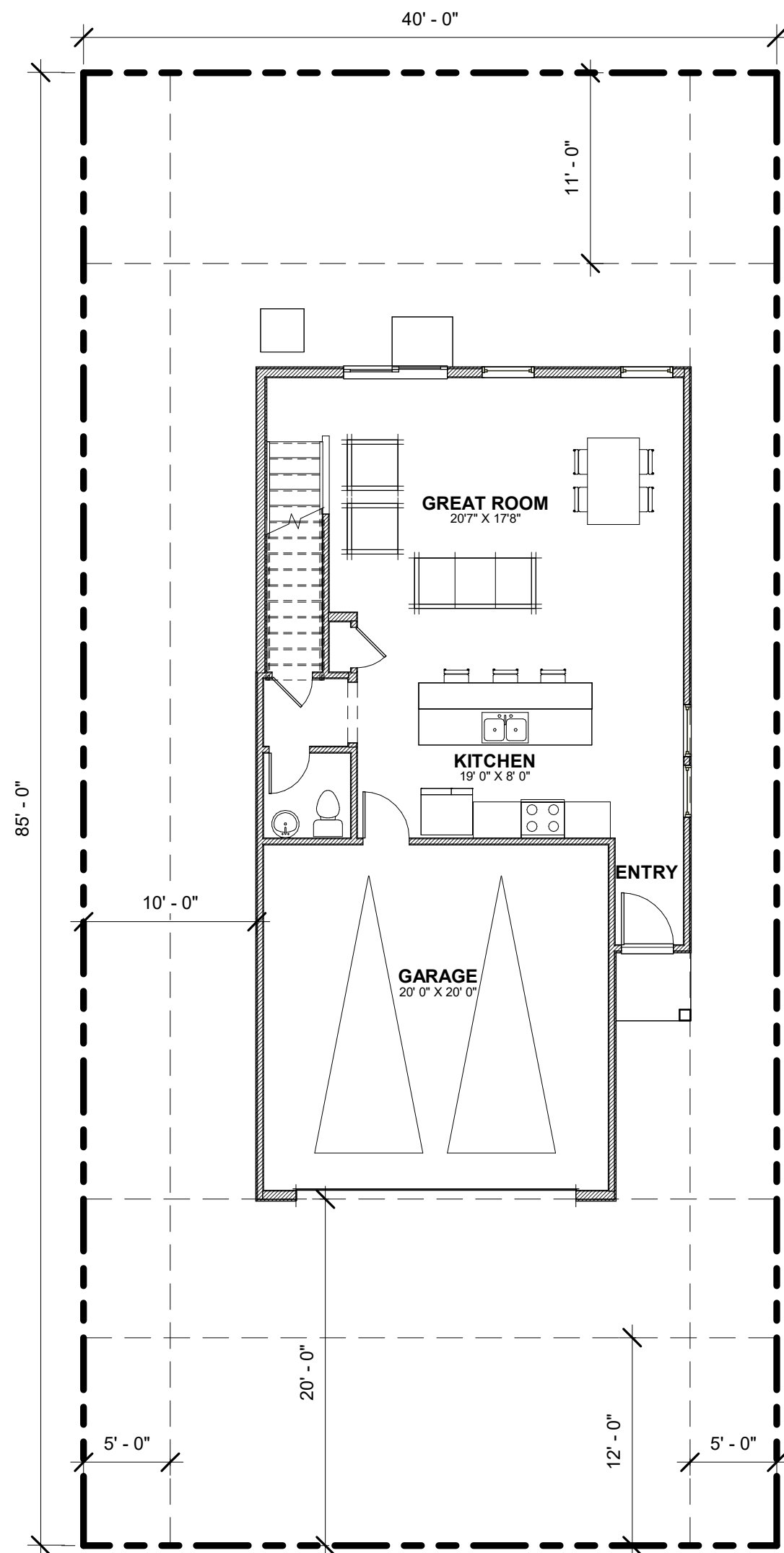
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

ELEVATIONS
PLAN 3





LENNAR®

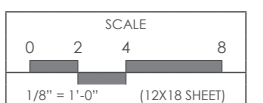
rrm
design
group

**COPPER
RIDGE**

HOUSE PLAN 1

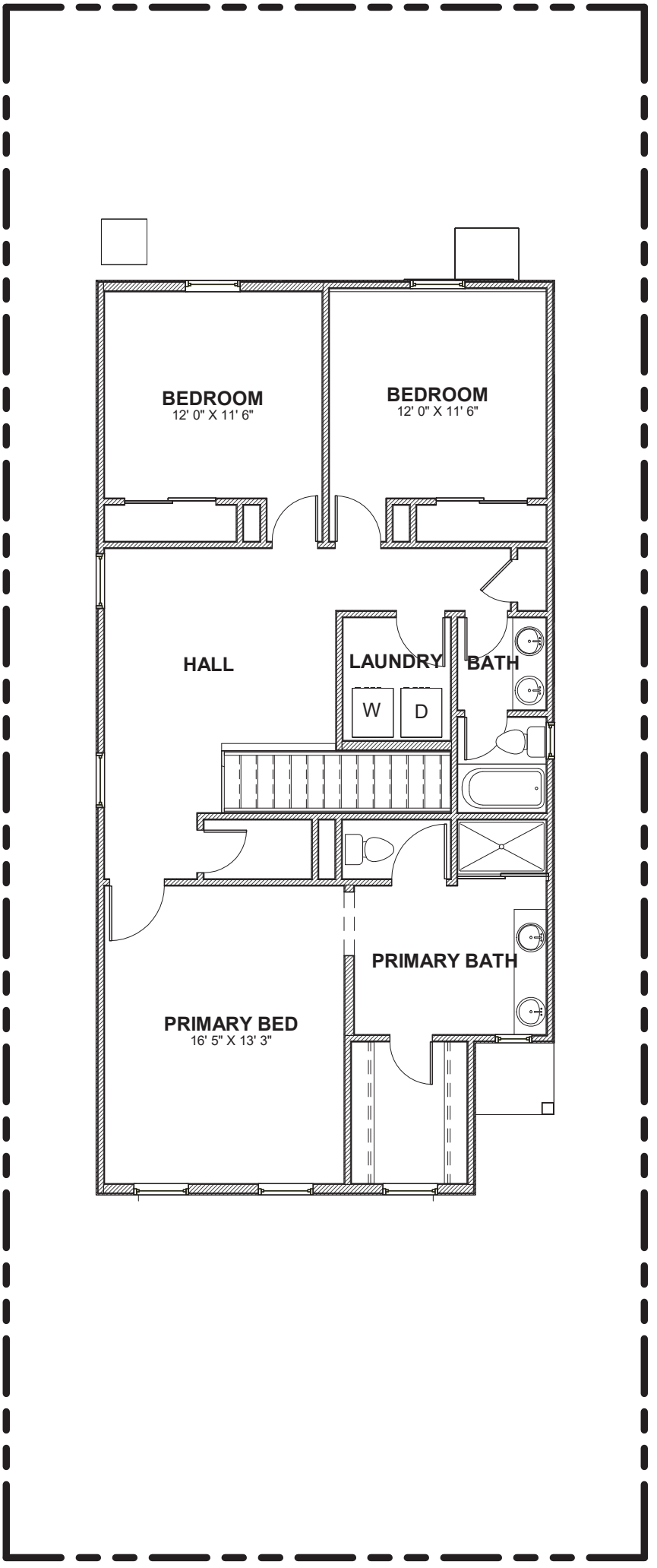
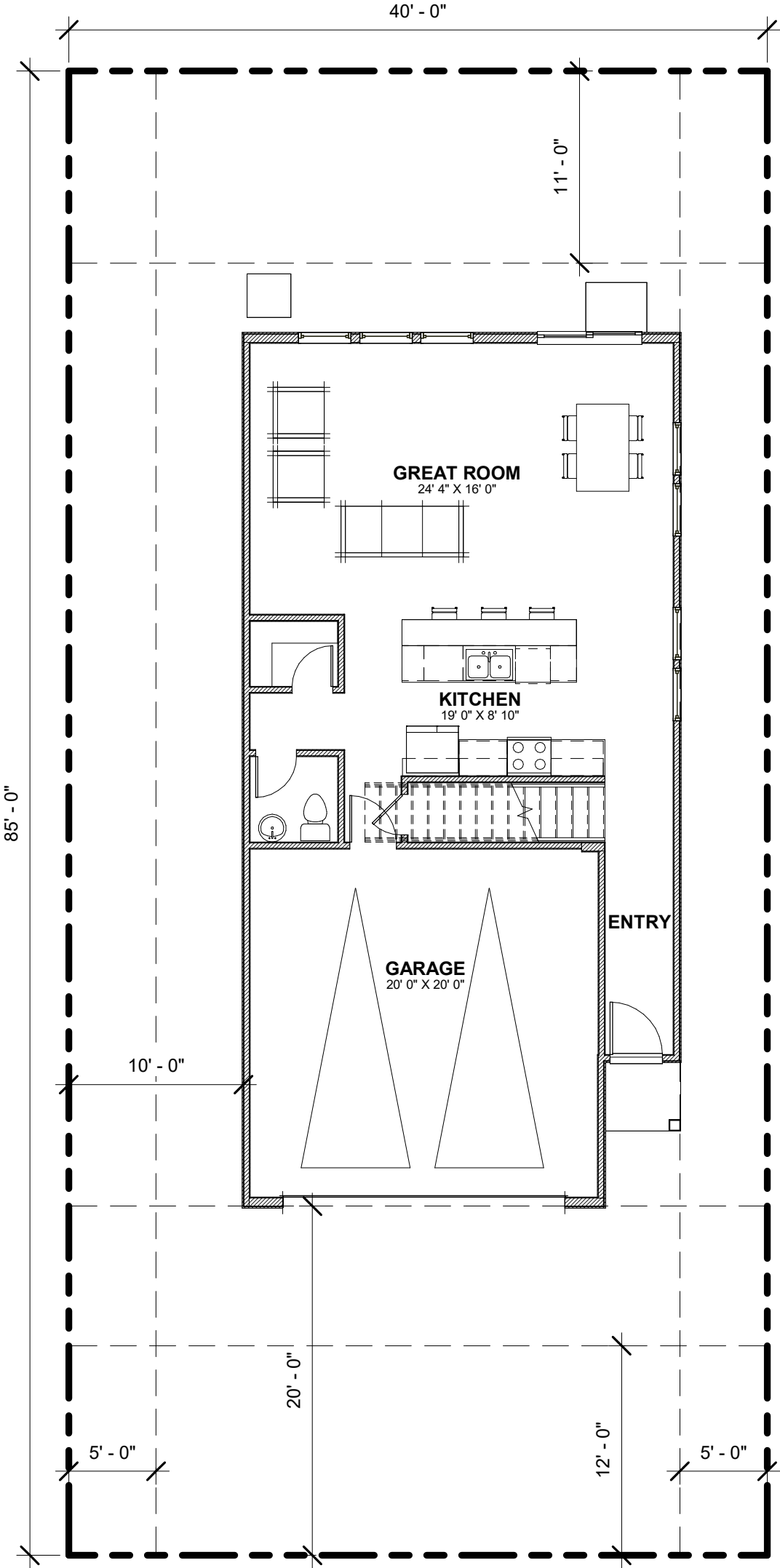
**FIRST FLOOR: 1,148SF
SECOND FLOOR: 1,148SF
TOTAL 2,296SF**

**FLOOR PLAN -
CELESTIAL**



10

#3151-02-HS24
10 APRIL 2024



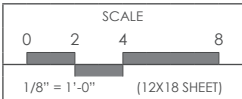
LENNAR®



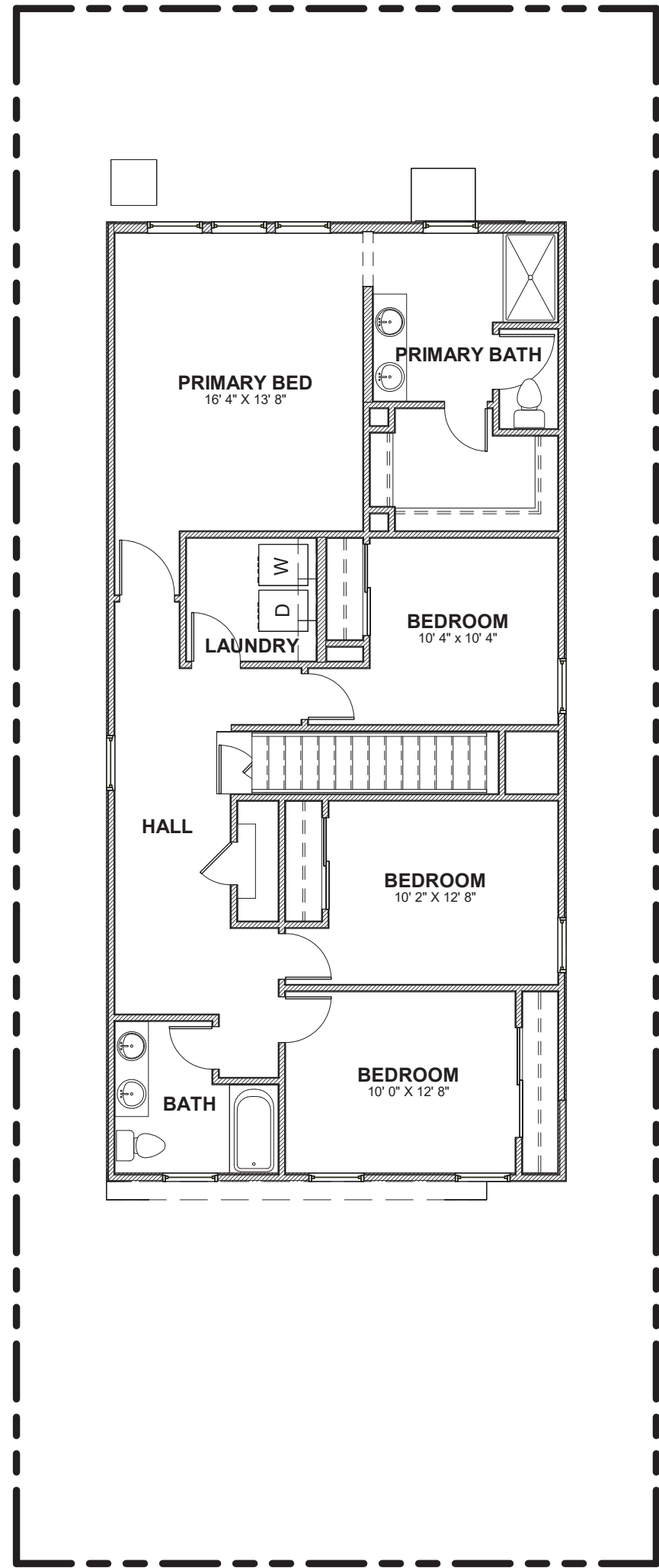
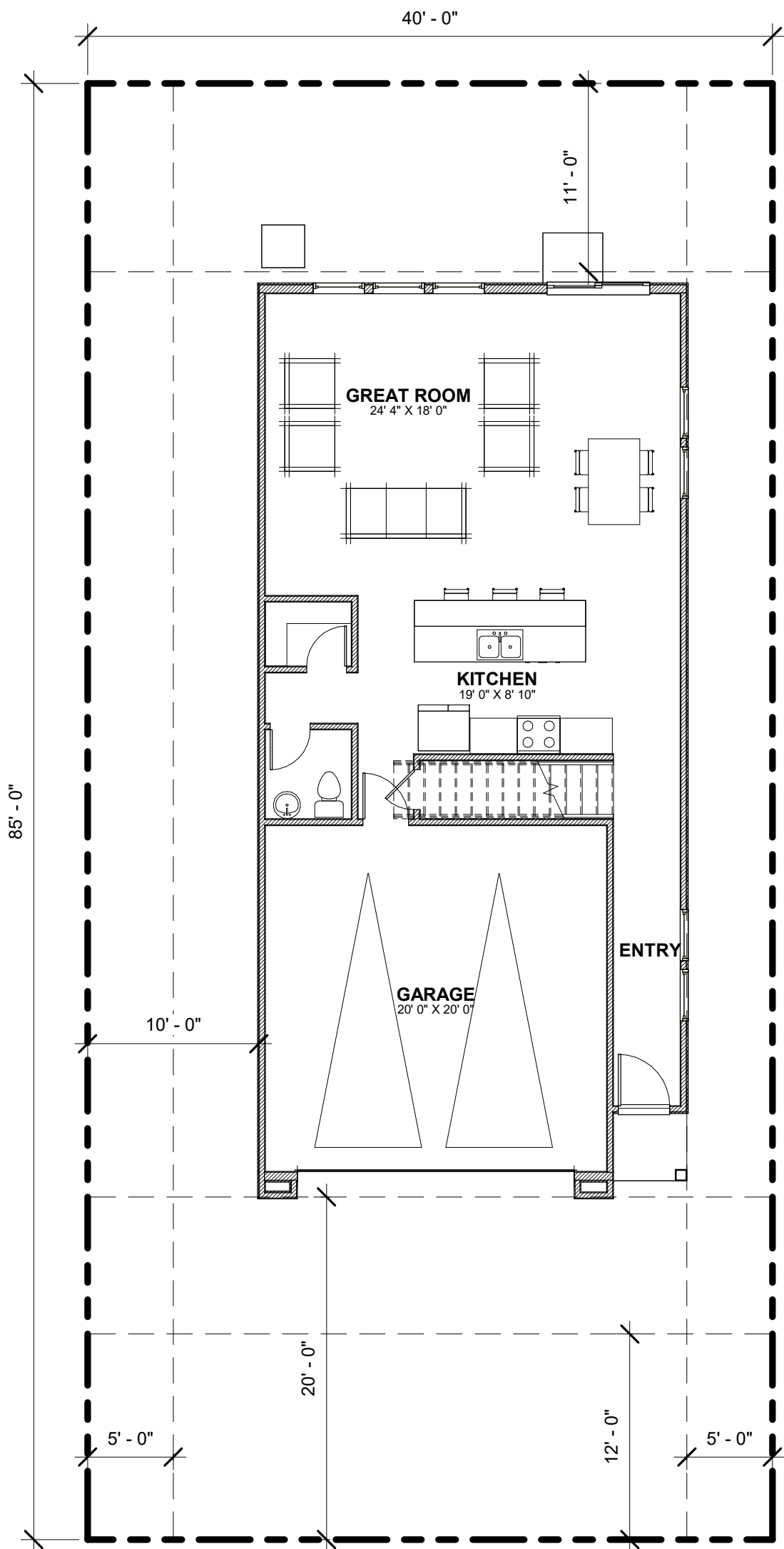
COPPER
RIDGE

HOUSE PLAN 2
FIRST FLOOR: 1,225SF
SECOND FLOOR: 1,225SF
TOTAL 2,450SF

FLOOR PLAN -
CELESTIAL



11



LENNAR®

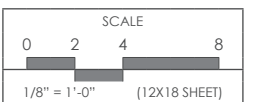
rrm
design
group

COPPER
RIDGE

HOUSE PLAN 3

FIRST FLOOR: 1,300SF
SECOND FLOOR: 1,320SF
TOTAL 2,620SF

FLOOR PLAN -
CELESTIAL



12

#3151-02-HS24
10 APRIL 2024



HOUSE PLAN 1

FIRST FLOOR: 1,148SF
SECOND FLOOR: 1,148SF
TOTAL 2,296SF

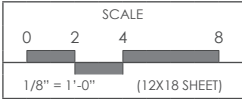
HOUSE PLAN 2

FIRST FLOOR: 1,225SF
SECOND FLOOR: 1,225SF
TOTAL 2,450SF

HOUSE PLAN 3

FIRST FLOOR: 1,300SF
SECOND FLOOR: 1,320SF
TOTAL 2,620SF

ELEVATIONS
“TRADITIONAL”





HOUSE PLAN 1

FIRST FLOOR: 1,148SF
SECOND FLOOR: 1,148SF
TOTAL 2,296SF

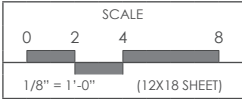
HOUSE PLAN 2

FIRST FLOOR: 1,225SF
SECOND FLOOR: 1,225SF
TOTAL 2,450SF

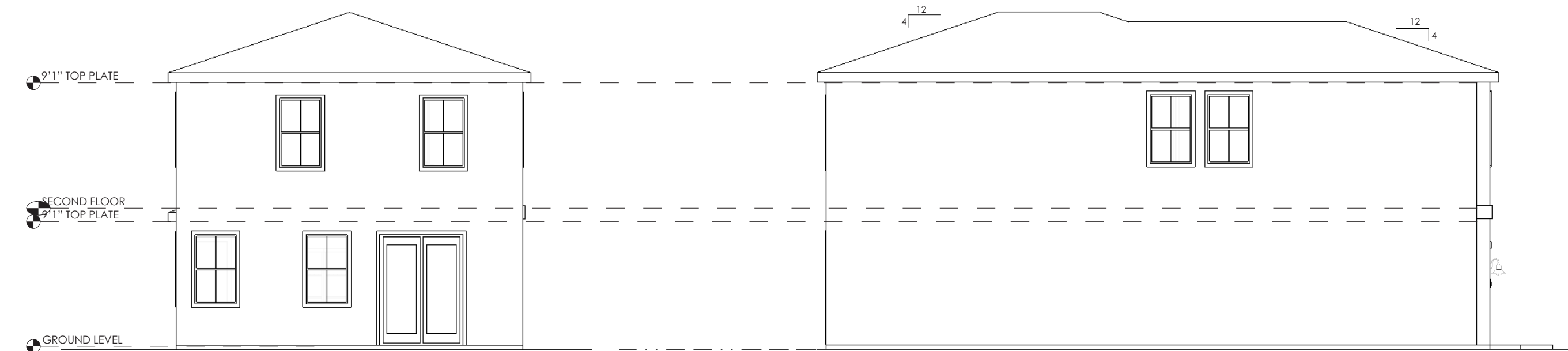
HOUSE PLAN 3

FIRST FLOOR: 1,300SF
SECOND FLOOR: 1,320SF
TOTAL 2,620SF

ELEVATIONS
“FARMHOUSE”

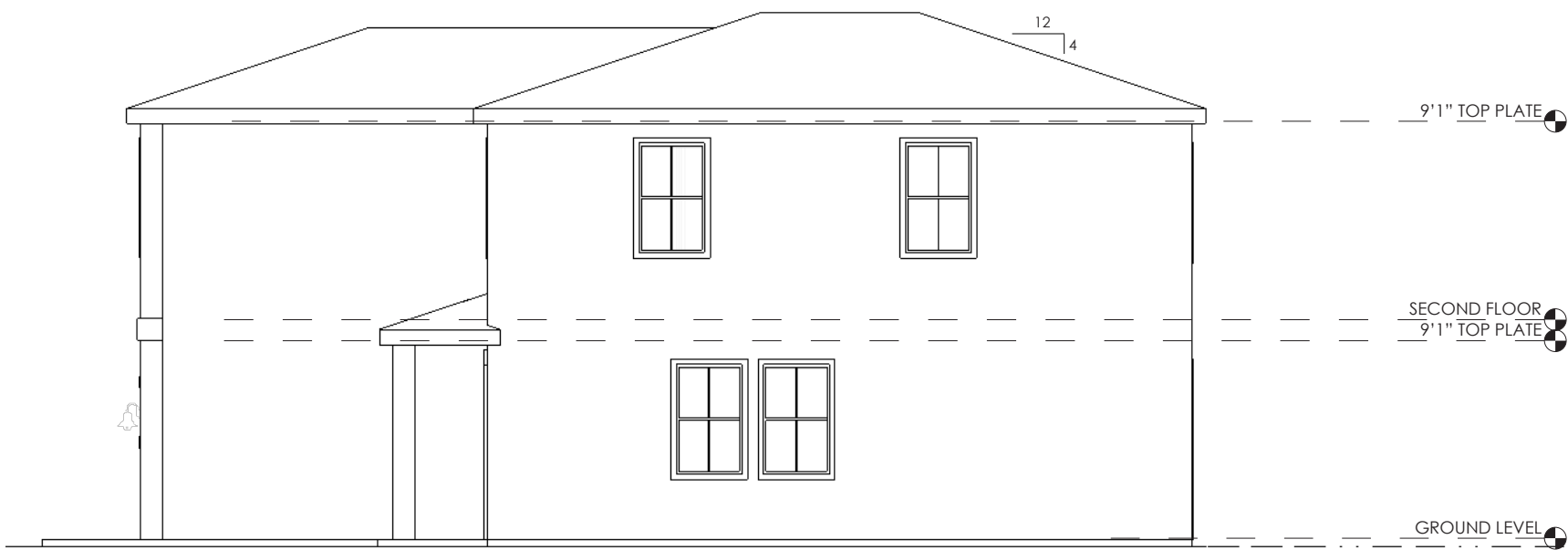


COPPER
RIDGE



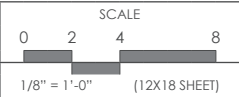
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

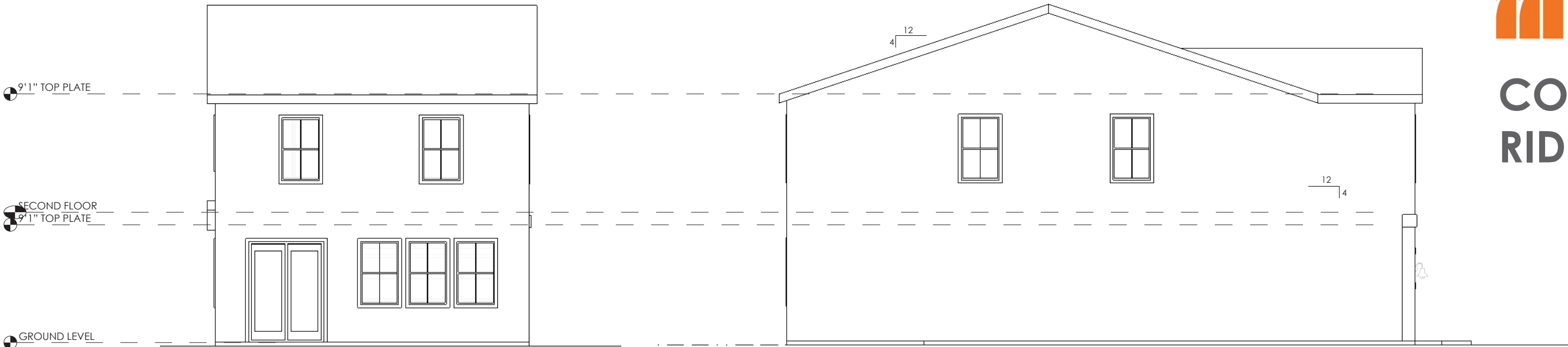


3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

ELEVATIONS
PLAN 1

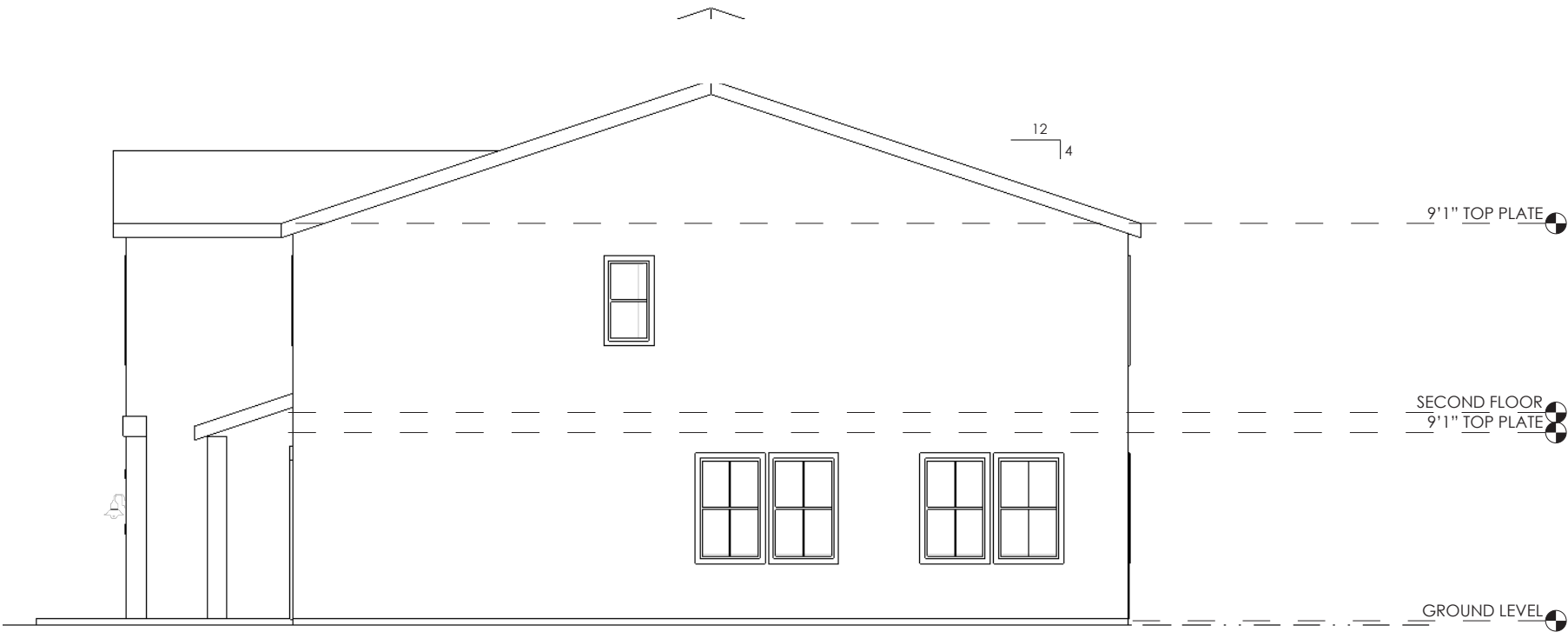


COPPER
RIDGE



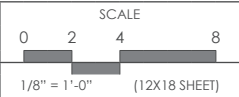
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

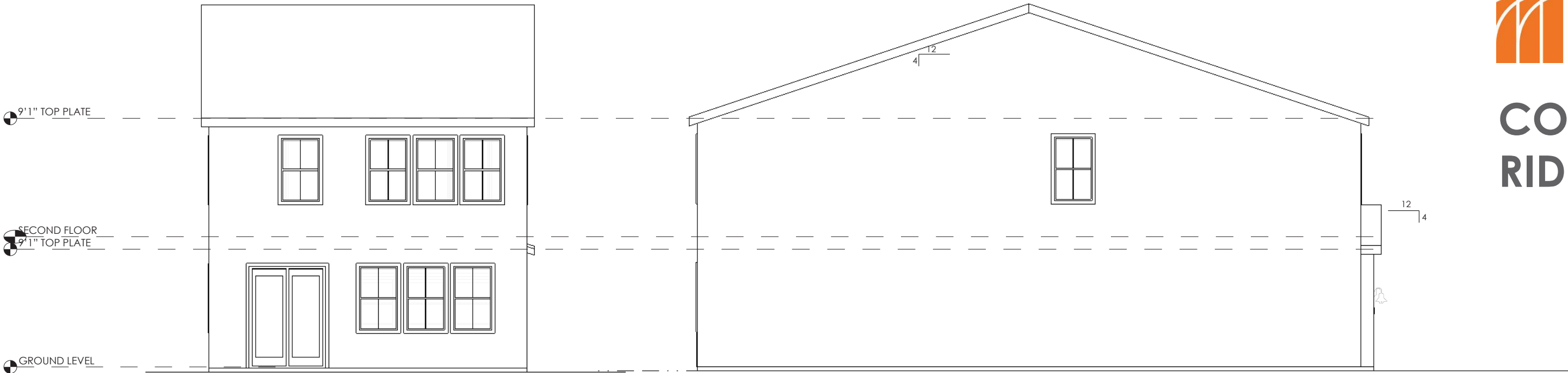
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

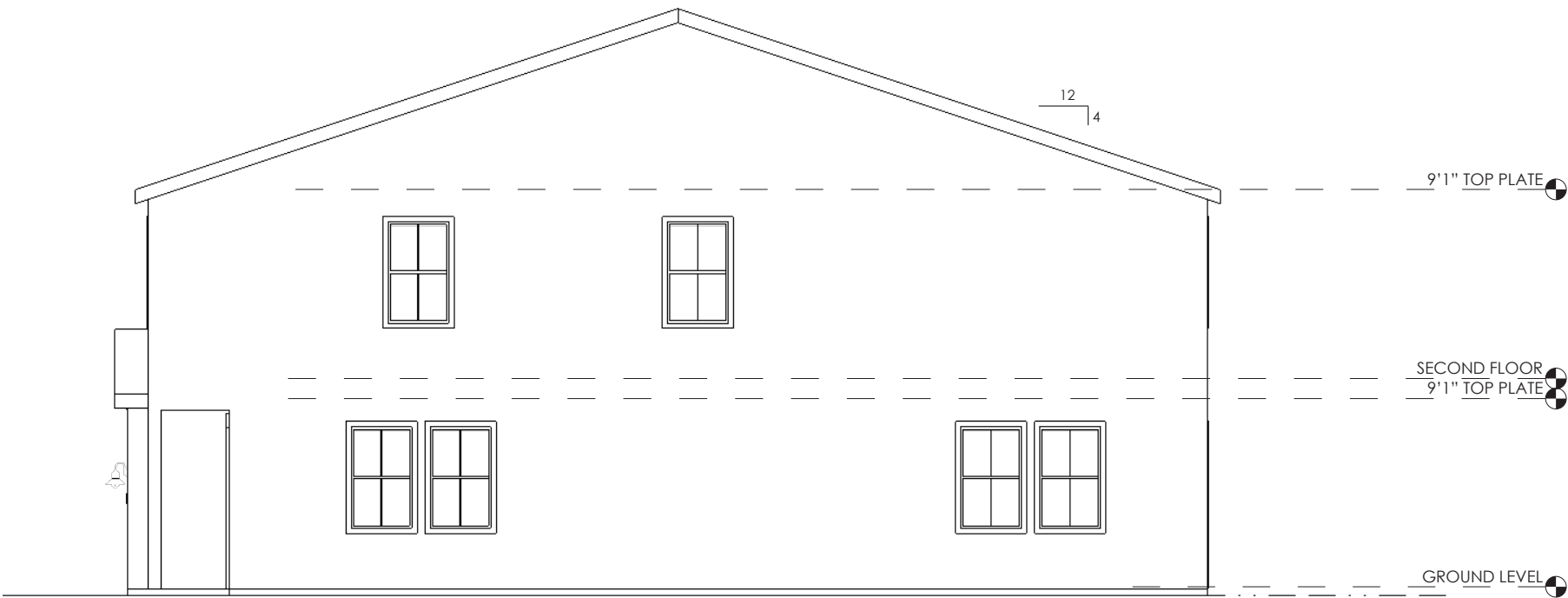
ELEVATIONS
PLAN 2





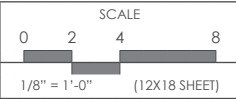
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

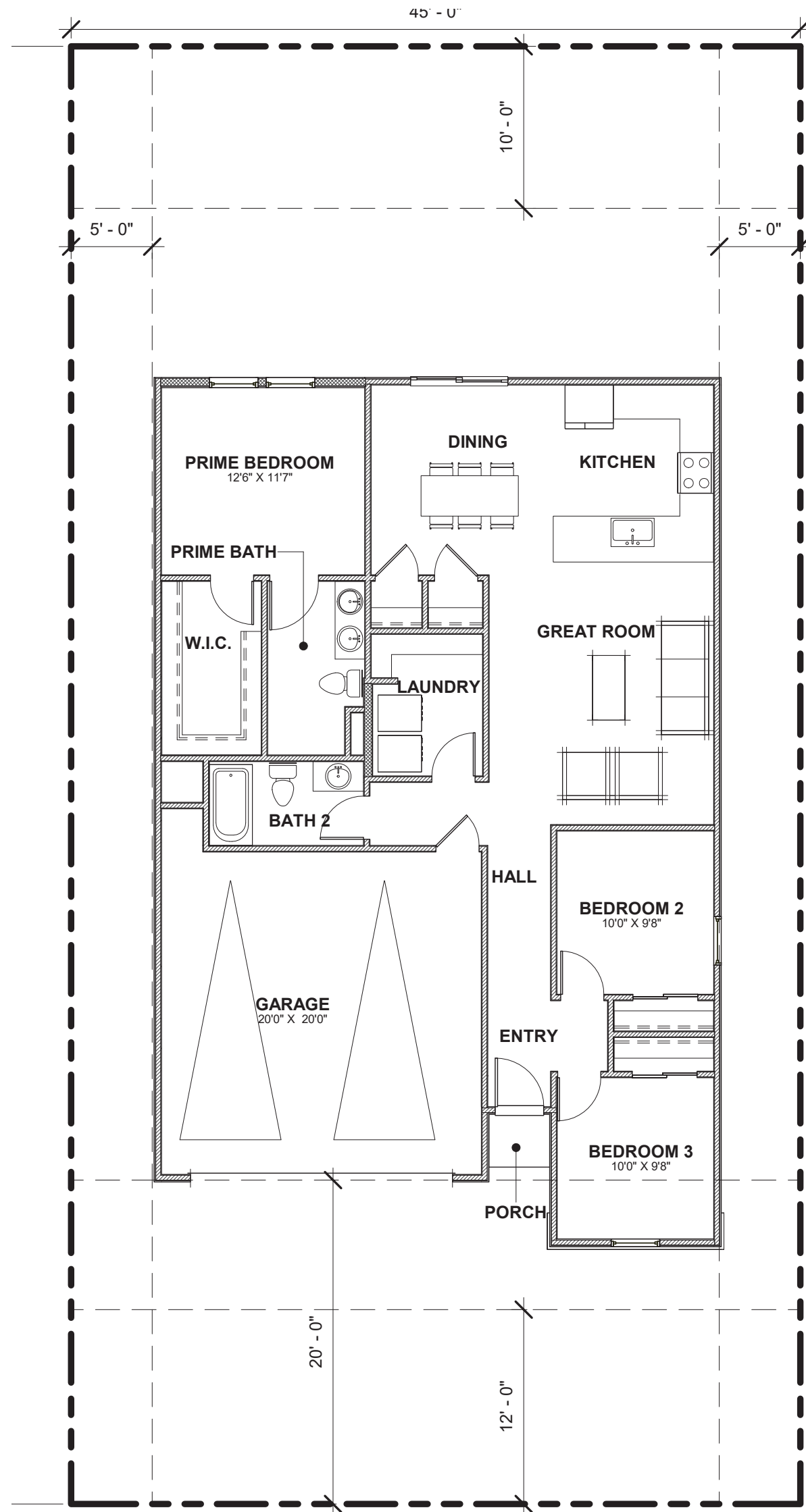
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

ELEVATIONS
PLAN 3





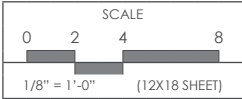
LENNAR®



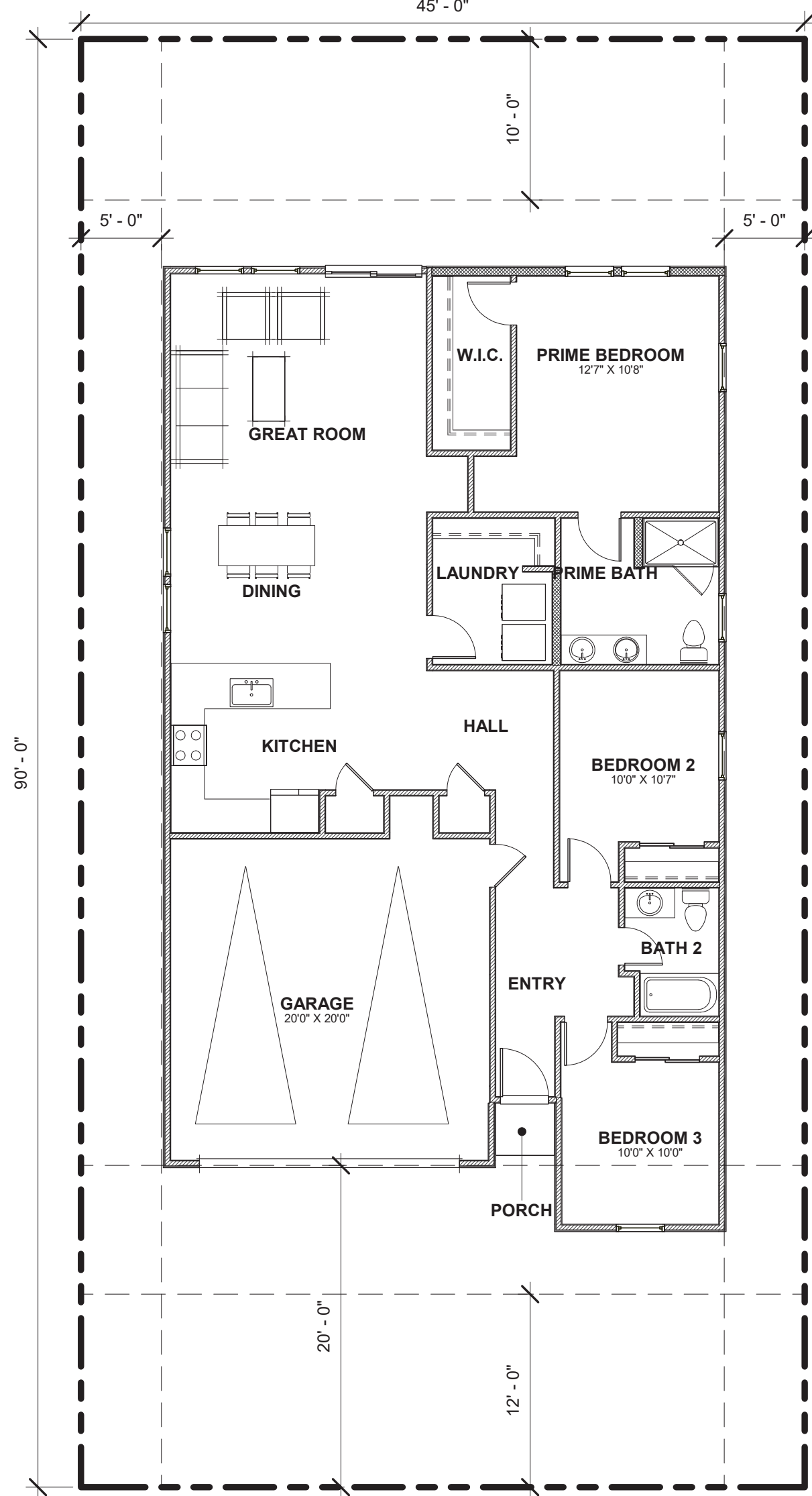
COPPER
RIDGE

HOUSE PLAN 1
TOTAL AREA: 1,341SF

FLOOR PLAN
“TREASURES”



18



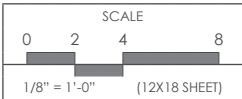
LENNAR®



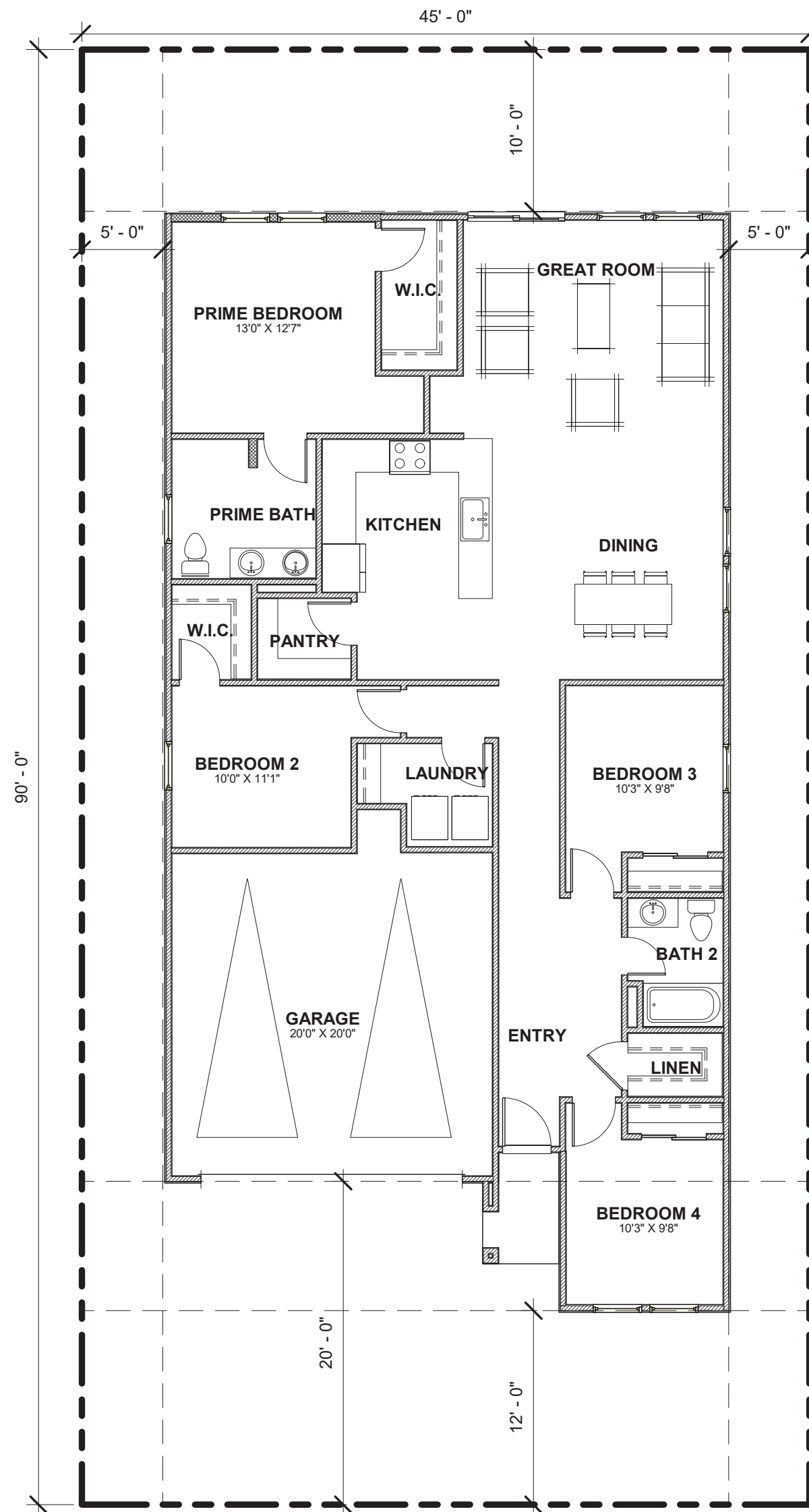
COPPER
RIDGE

HOUSE PLAN 2
TOTAL AREA: 1,564 SF

FLOOR PLAN
“TREASURES”



19



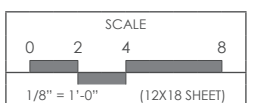
LENNAR®



COPPER
RIDGE

HOUSE PLAN 3
TOTAL AREA: 1,755 SF

FLOOR PLAN
"TREASURES"



20

#3151-02-HS24
10 APRIL 2024

COPPER
RIDGE



HOUSE PLAN 1
TOTAL AREA: 1,341SF

HOUSE PLAN 2
TOTAL AREA: 1,564 SF

HOUSE PLAN 3
TOTAL AREA: 1,755 SF

ELEVATIONS
“TRADITIONAL”

#3151-02-HS24
10 APRIL 2024

COPPER
RIDGE



HOUSE PLAN 1
TOTAL AREA: 1,341SF

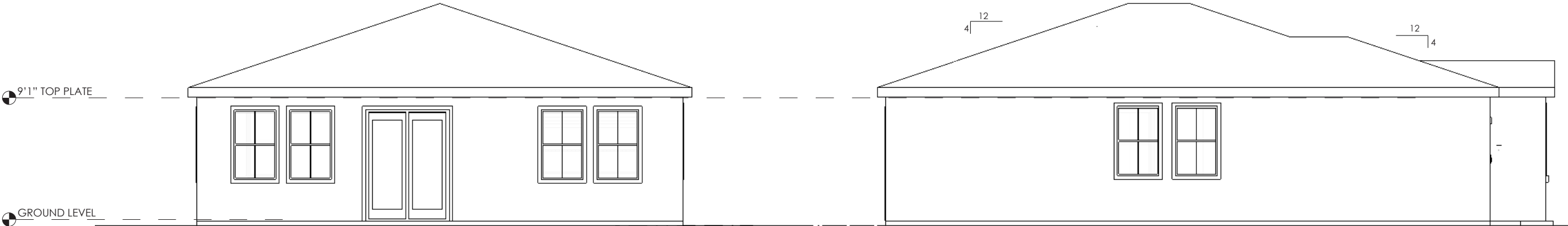
HOUSE PLAN 2
TOTAL AREA: 1,564 SF

HOUSE PLAN 3
TOTAL AREA: 1,755 SF

ELEVATIONS
“FARMHOUSE”

#3151-02-HS24
10 APRIL 2024

COPPER
RIDGE



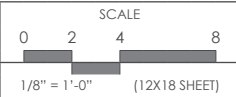
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

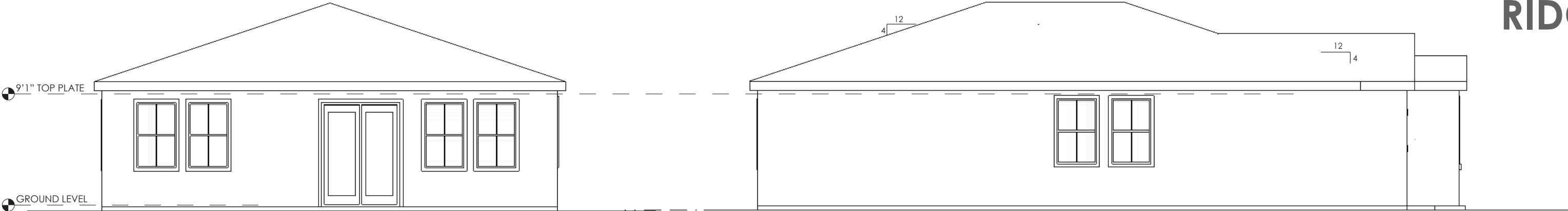
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

ELEVATIONS
PLAN 1





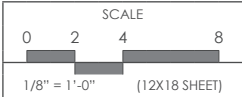
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

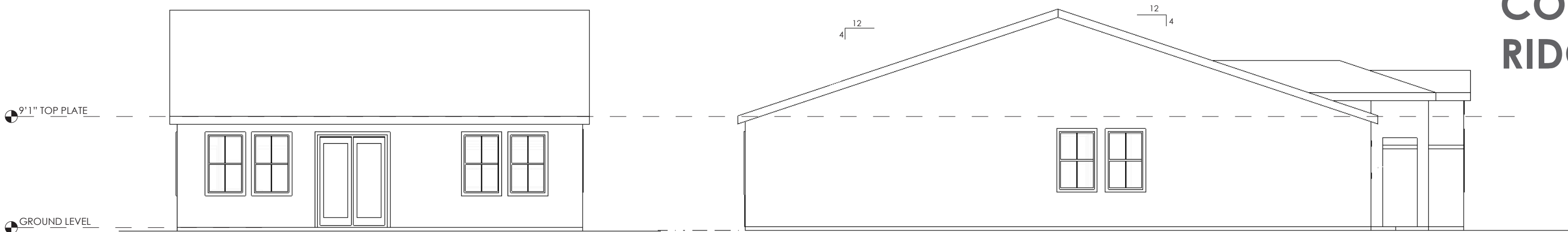
2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

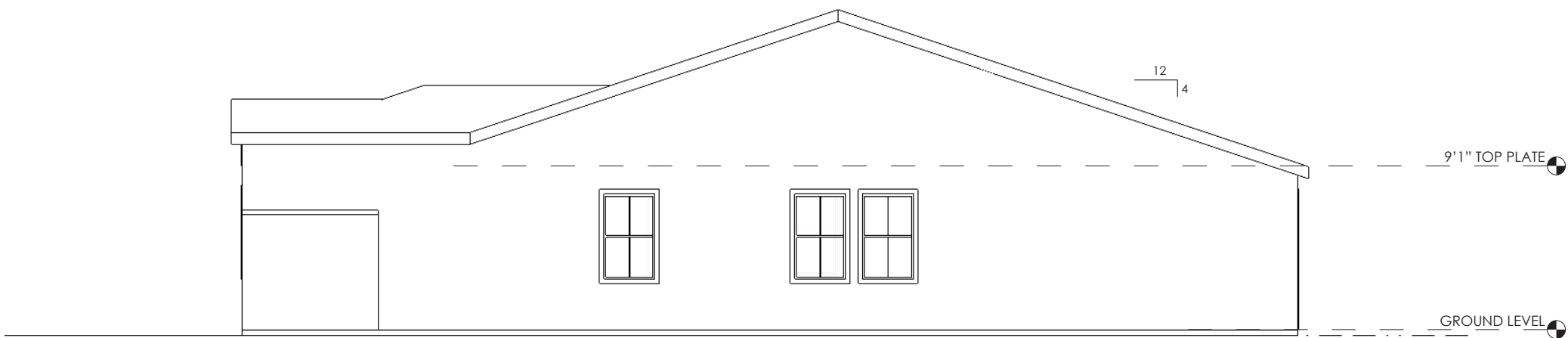
ELEVATIONS
PLAN 2





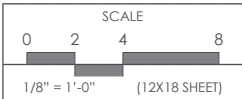
1 REAR ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

2 LEFT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)



3 RIGHT ELEVATION
1/8" = 1'-0" (12 X 18 SHEET)

ELEVATIONS
PLAN 3





© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

A - STYLE



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

B - STYLE

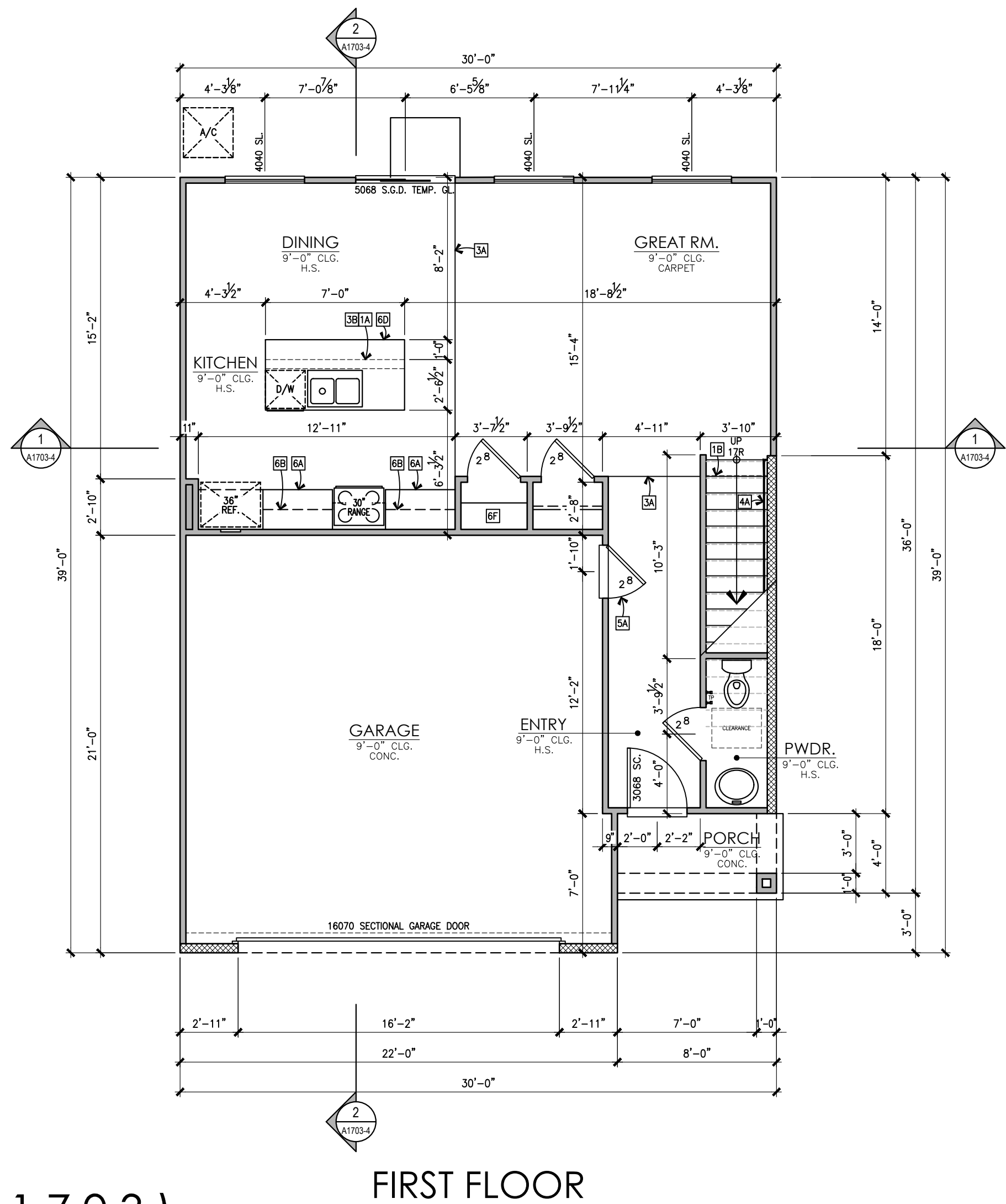
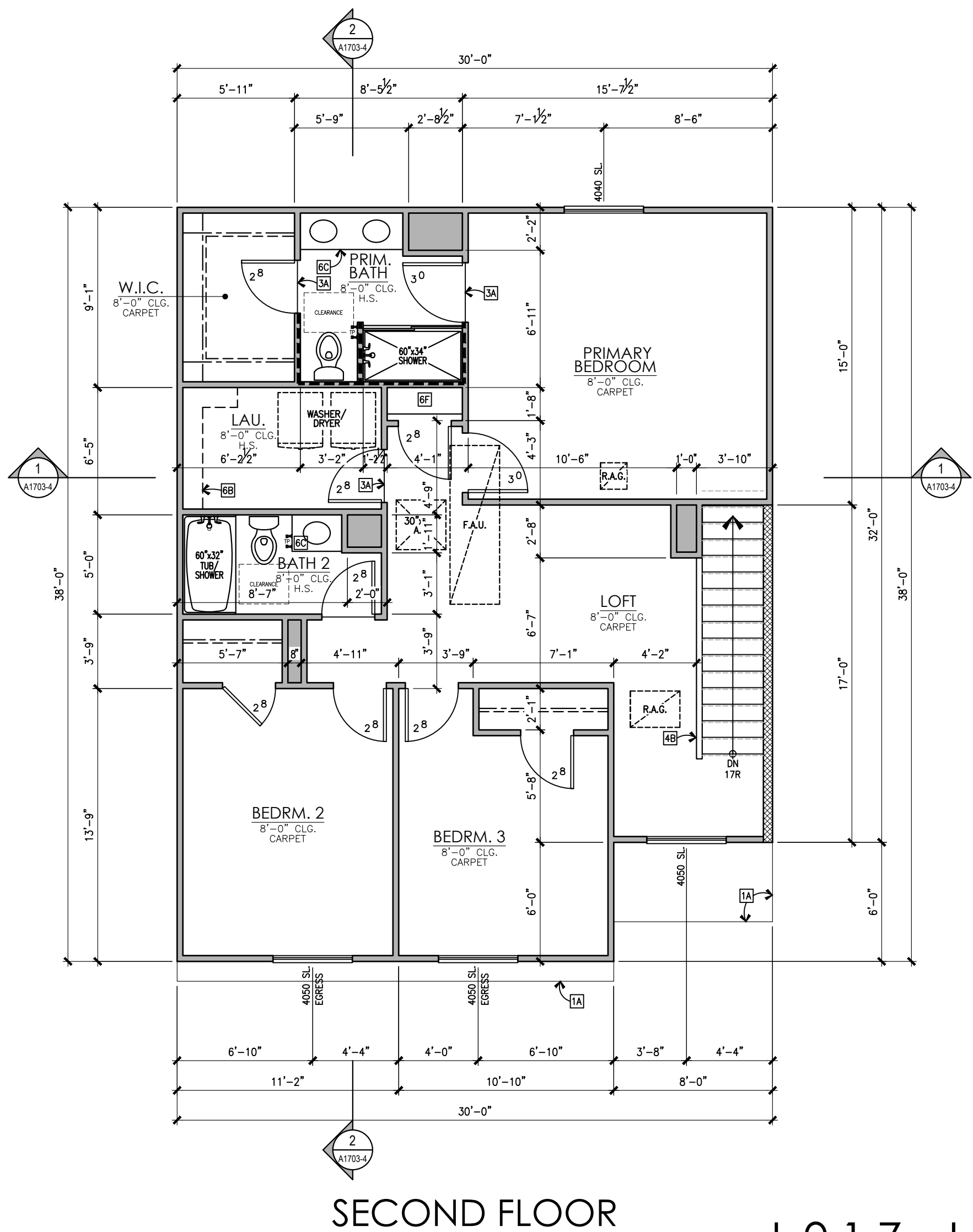


© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

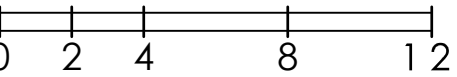
C - STYLE

L017 JOYCE (1703)
FRONT ELEVATIONS

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



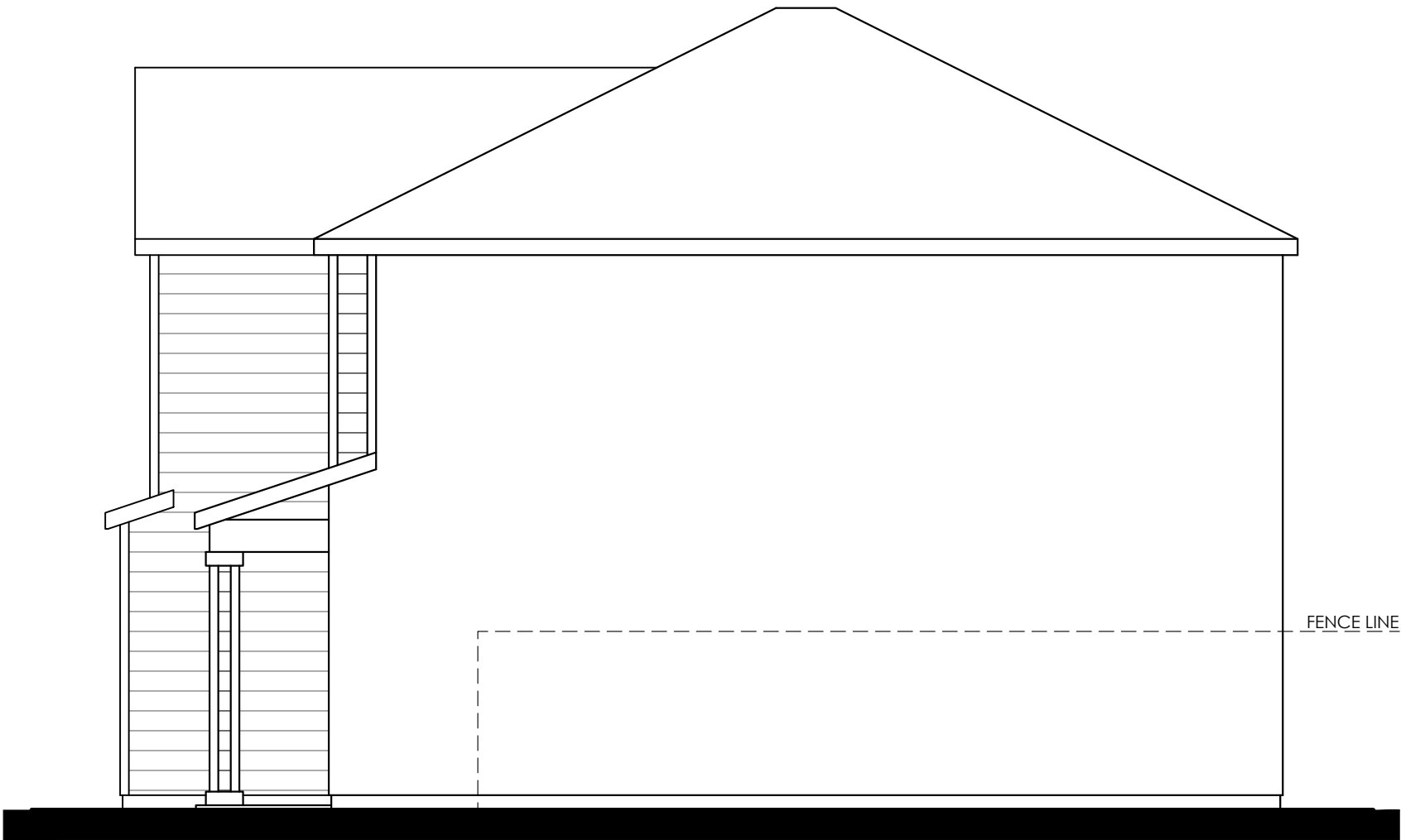
PLAN 1 AREA TABULATION	
CONDITIONED SPACE	
FIRST FLOOR AREA	653 SQ. FT.
SECOND FLOOR AREA	1,050 SQ. FT.
TOTAL DWELLING	1,703 SQ. FT.
UNCONDITIONED SPACE	
GARAGE	461 SQ. FT.
PORCH "A"	32 SQ. FT.





© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

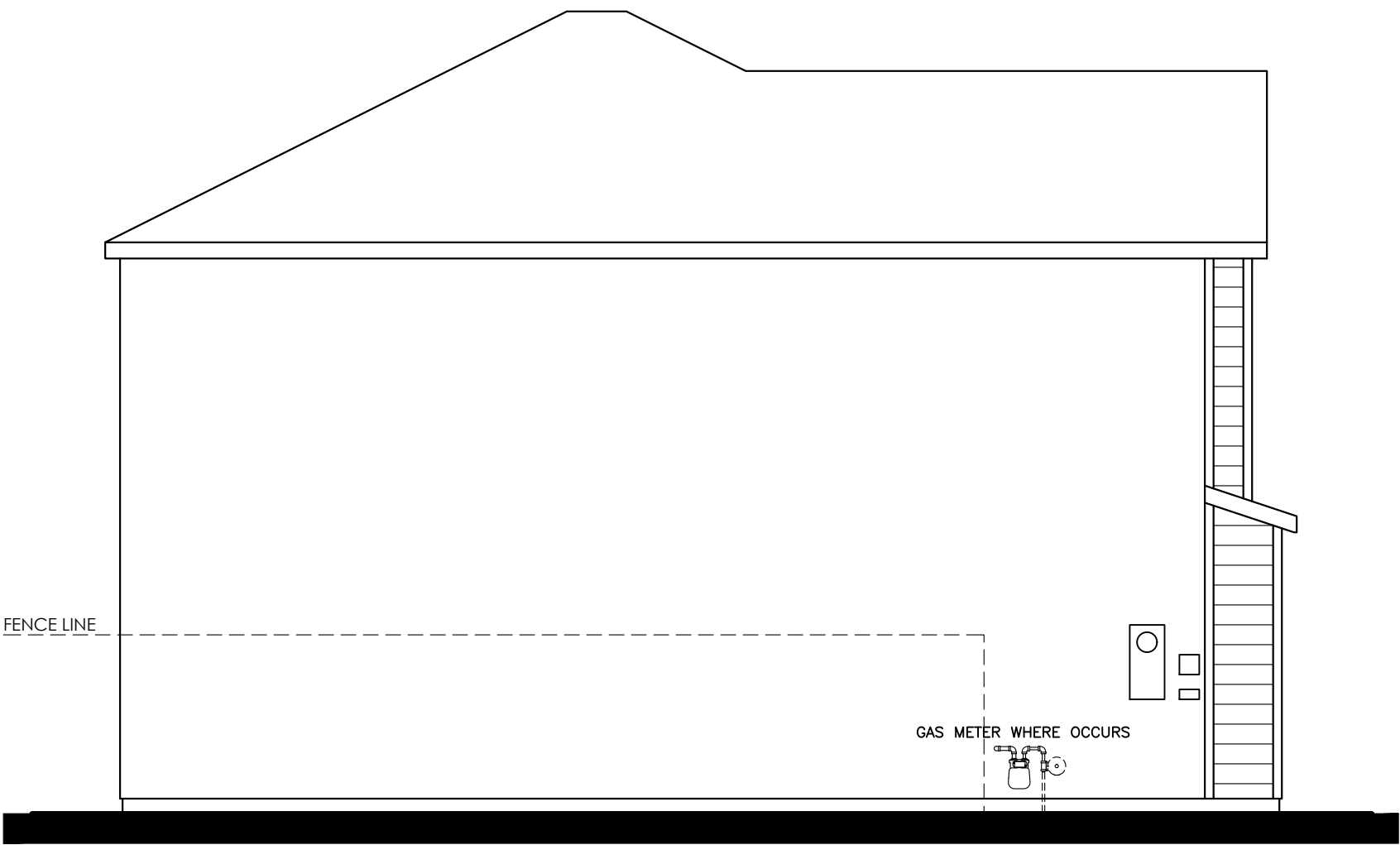
FRONT



RIGHT



REAR



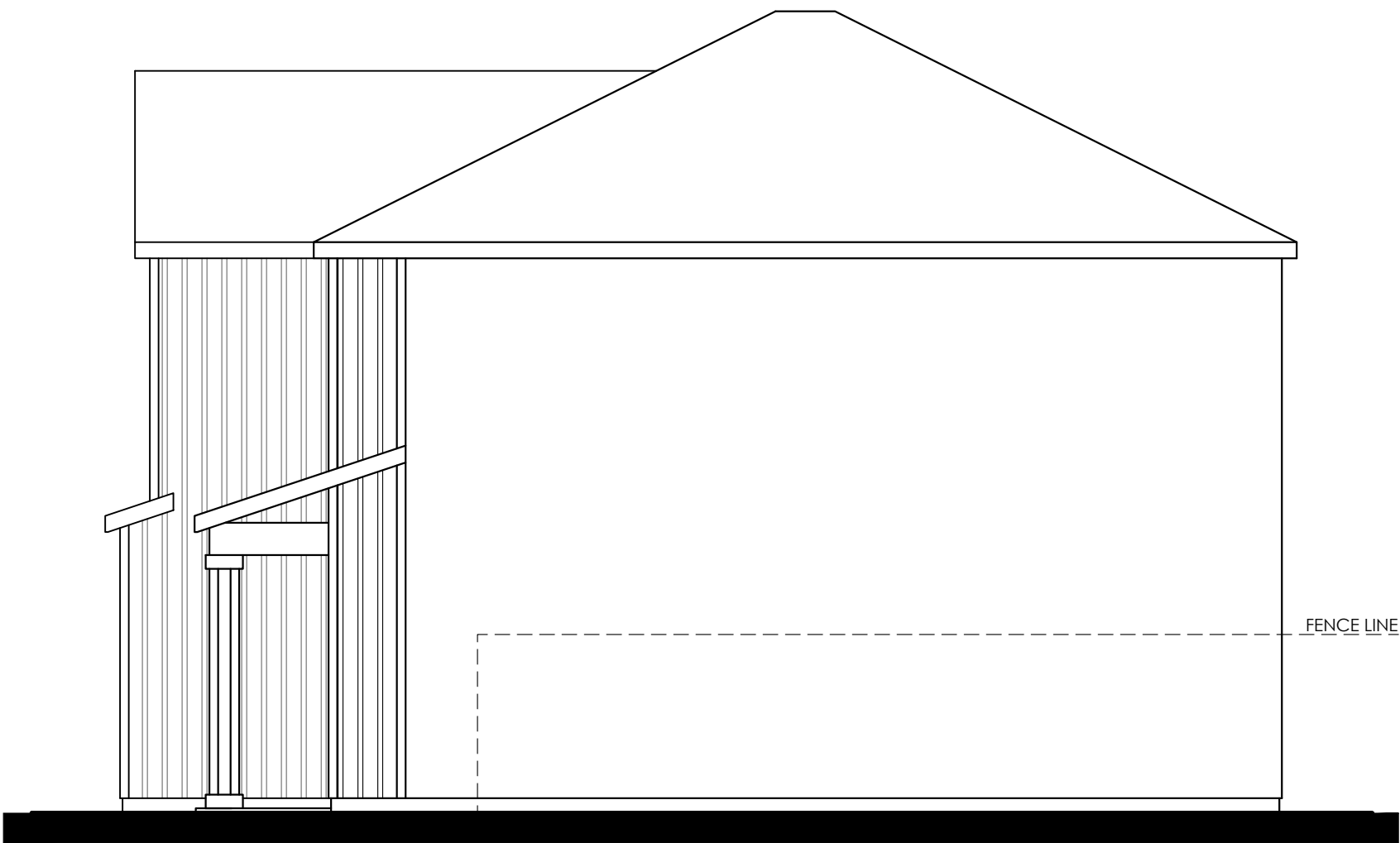
LEFT

L017 JOYCE (1703)
"A" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

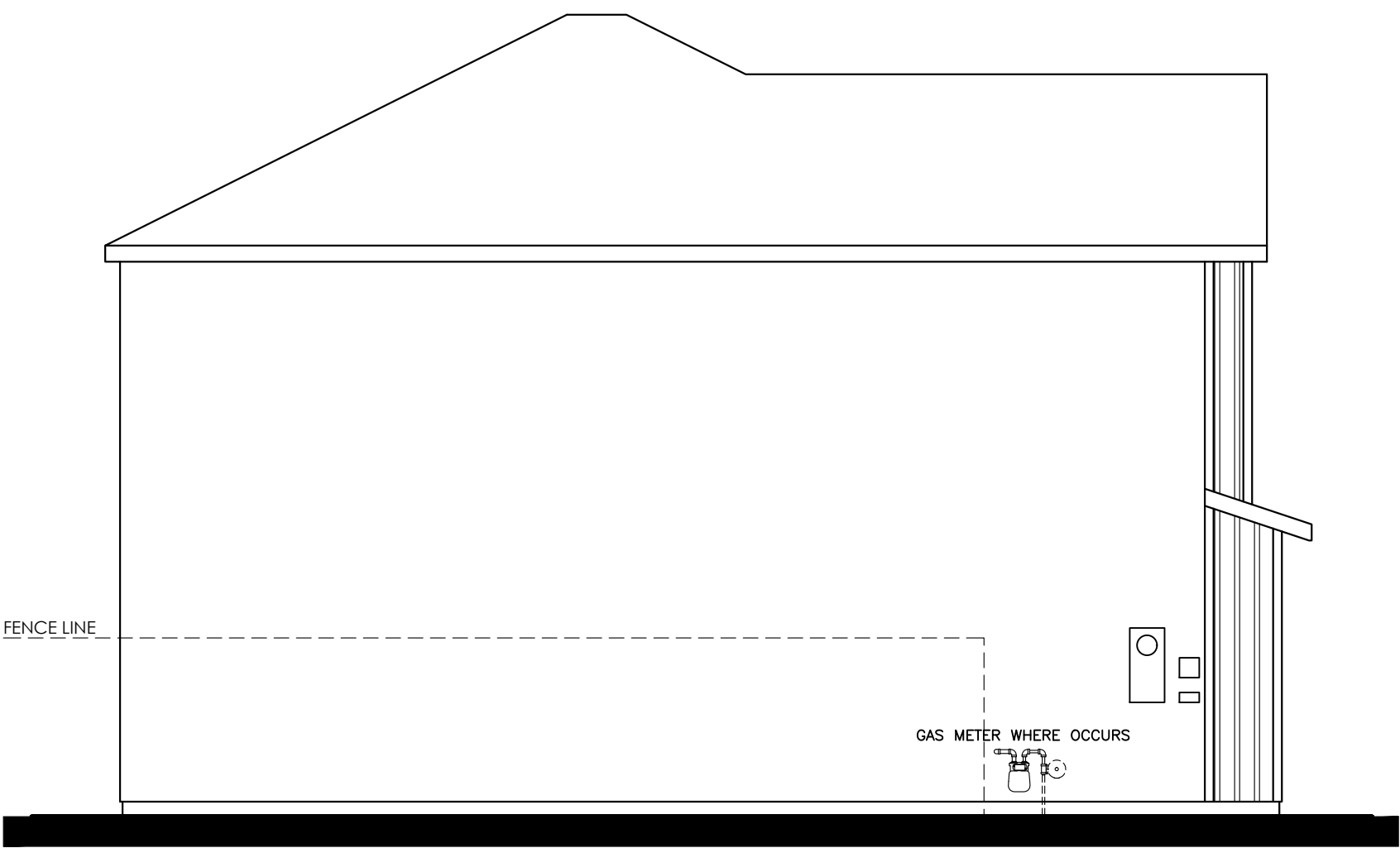
FRONT



RIGHT



REAR



LEFT

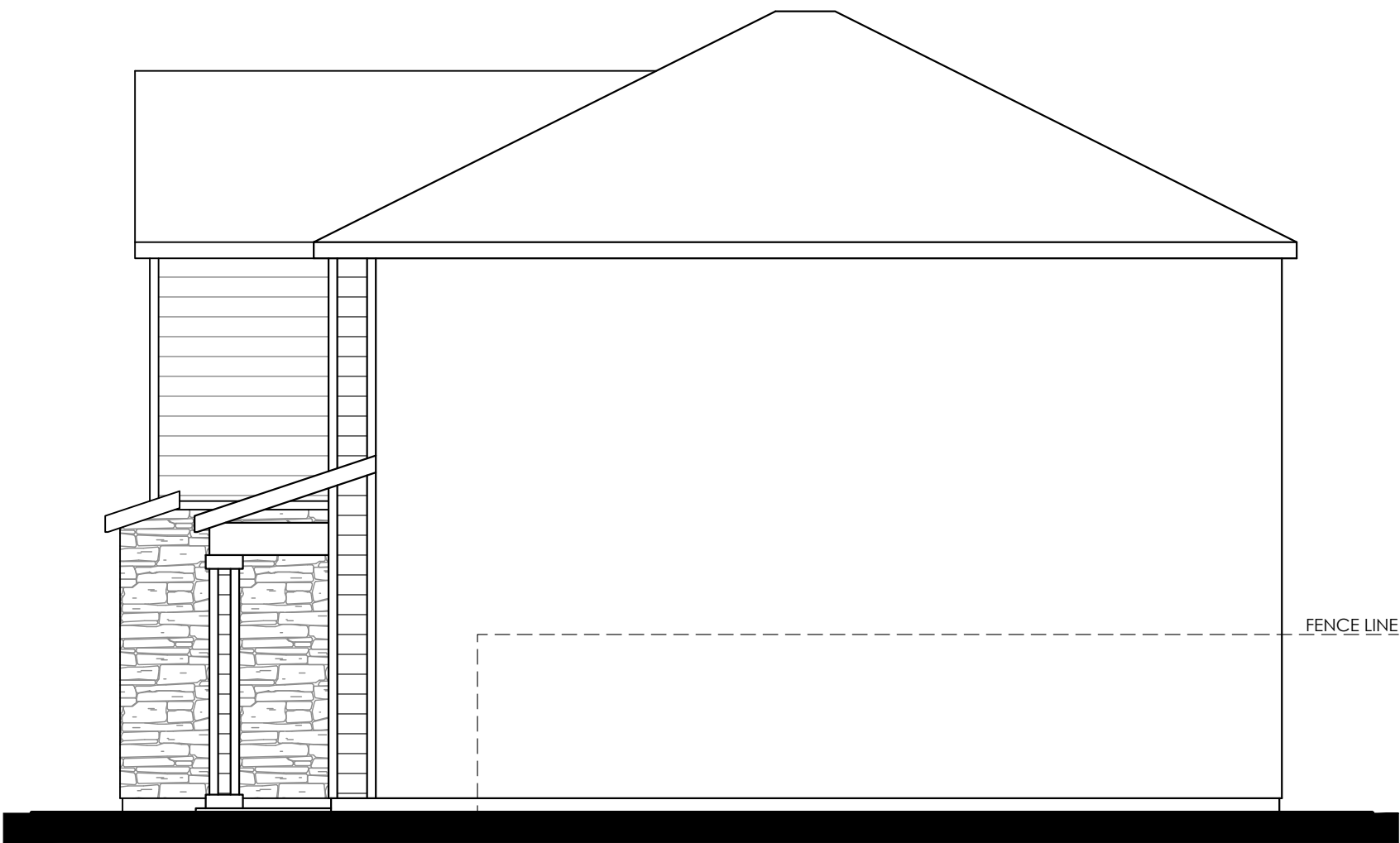
L017 JOYCE (1703)
"B" -STYLE- ELEVATIONS

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

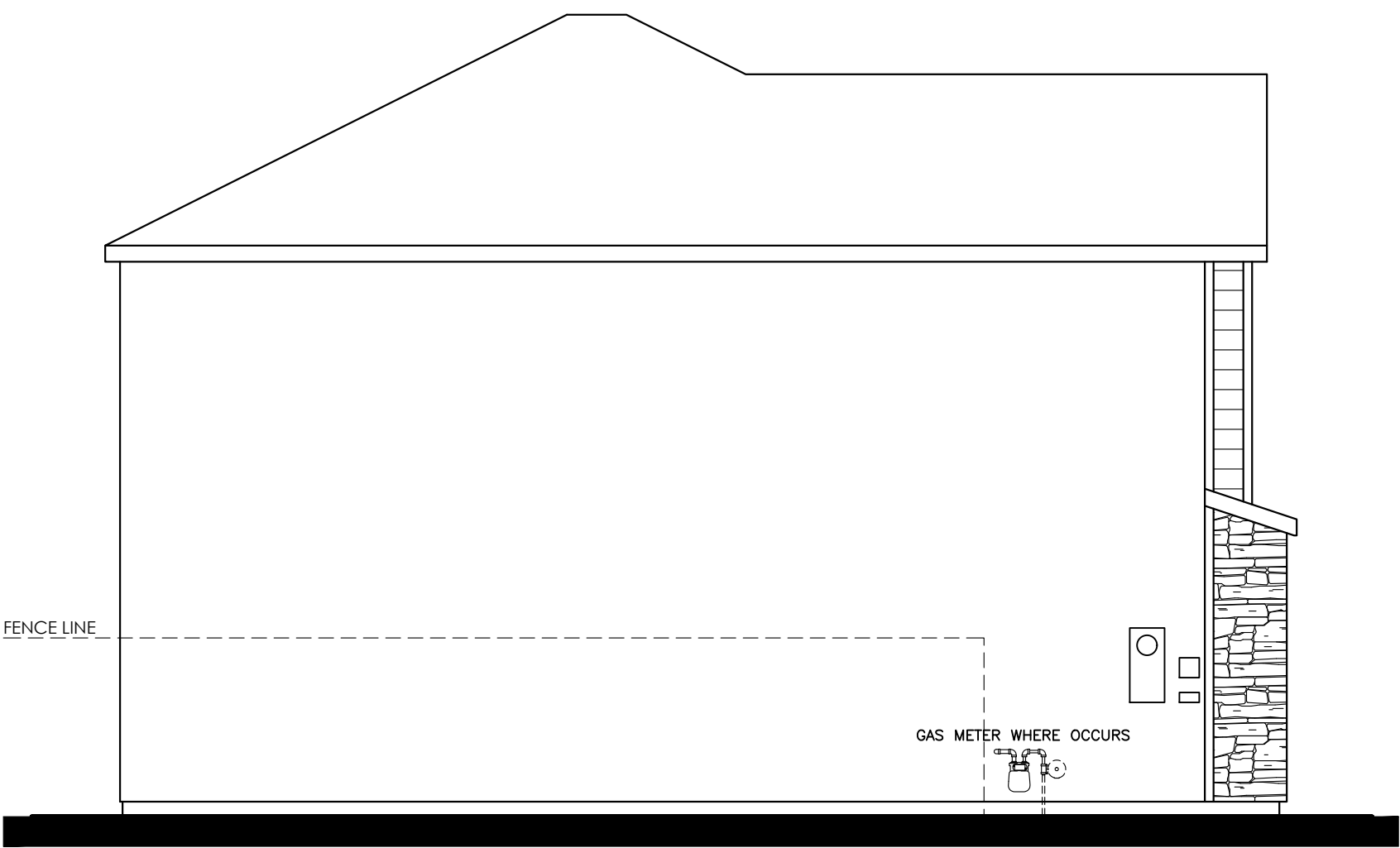
FRONT



RIGHT



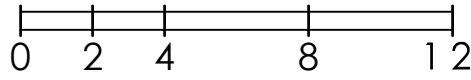
REAR

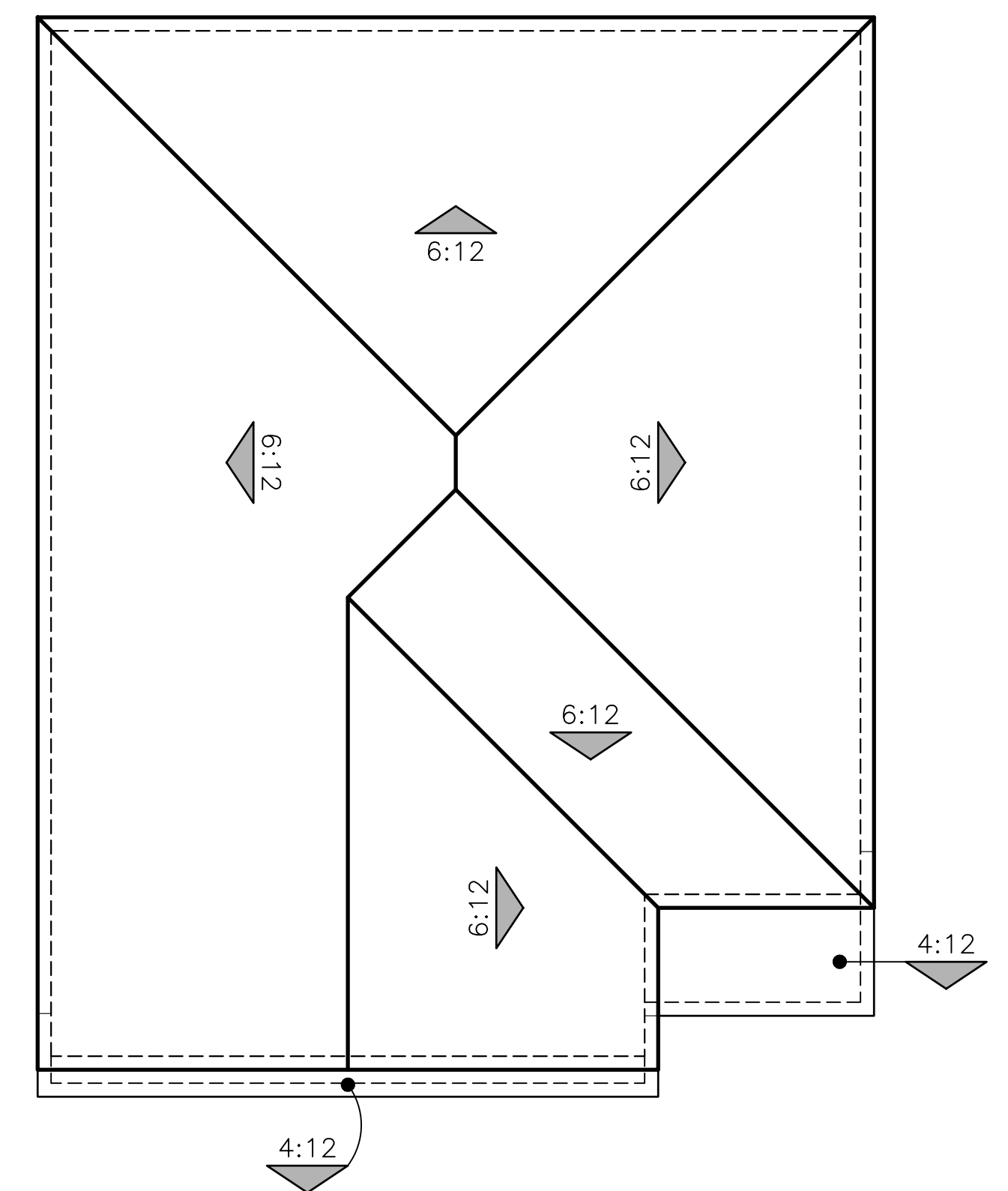
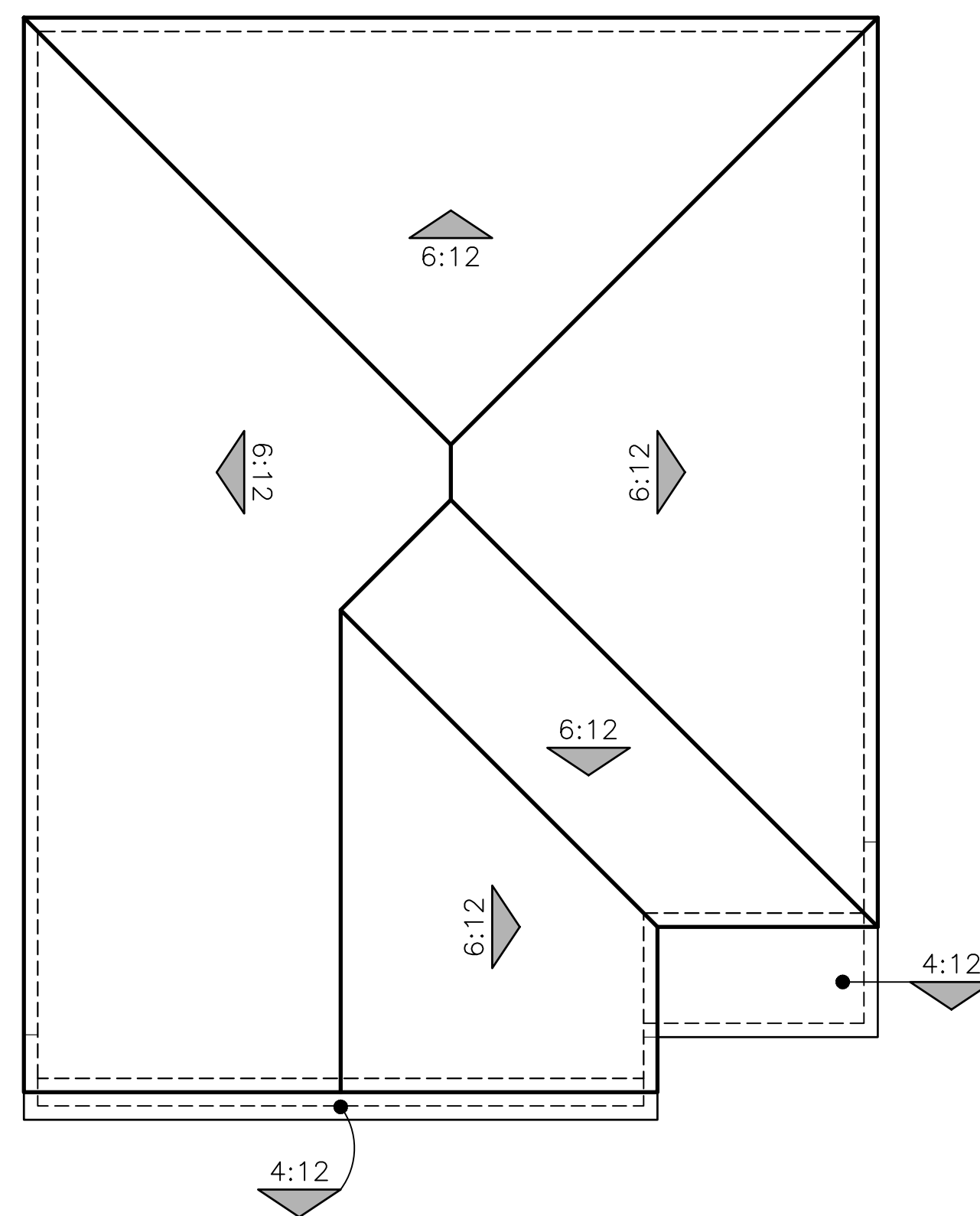
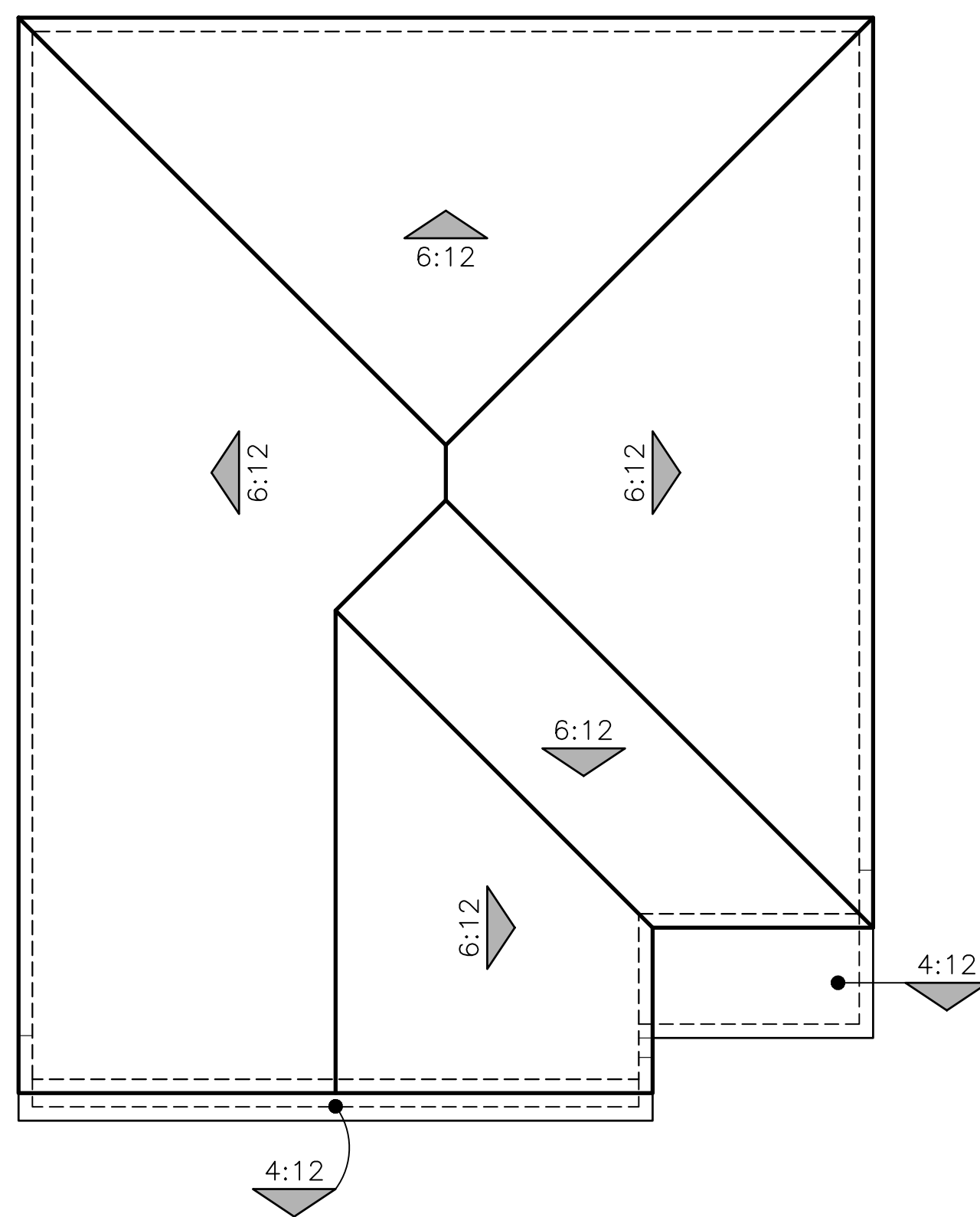


LEFT

L017 JOYCE (1703)
"C" -STYLE- ELEVATIONS

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



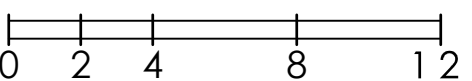


L017 JOYCE (1703)

ROOF PLANS

CENTRAL VALLEY 30'

CALIFORNIA
09/18/24





© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

A - STYLE



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

B - STYLE

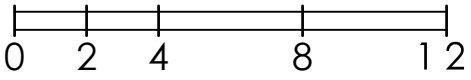


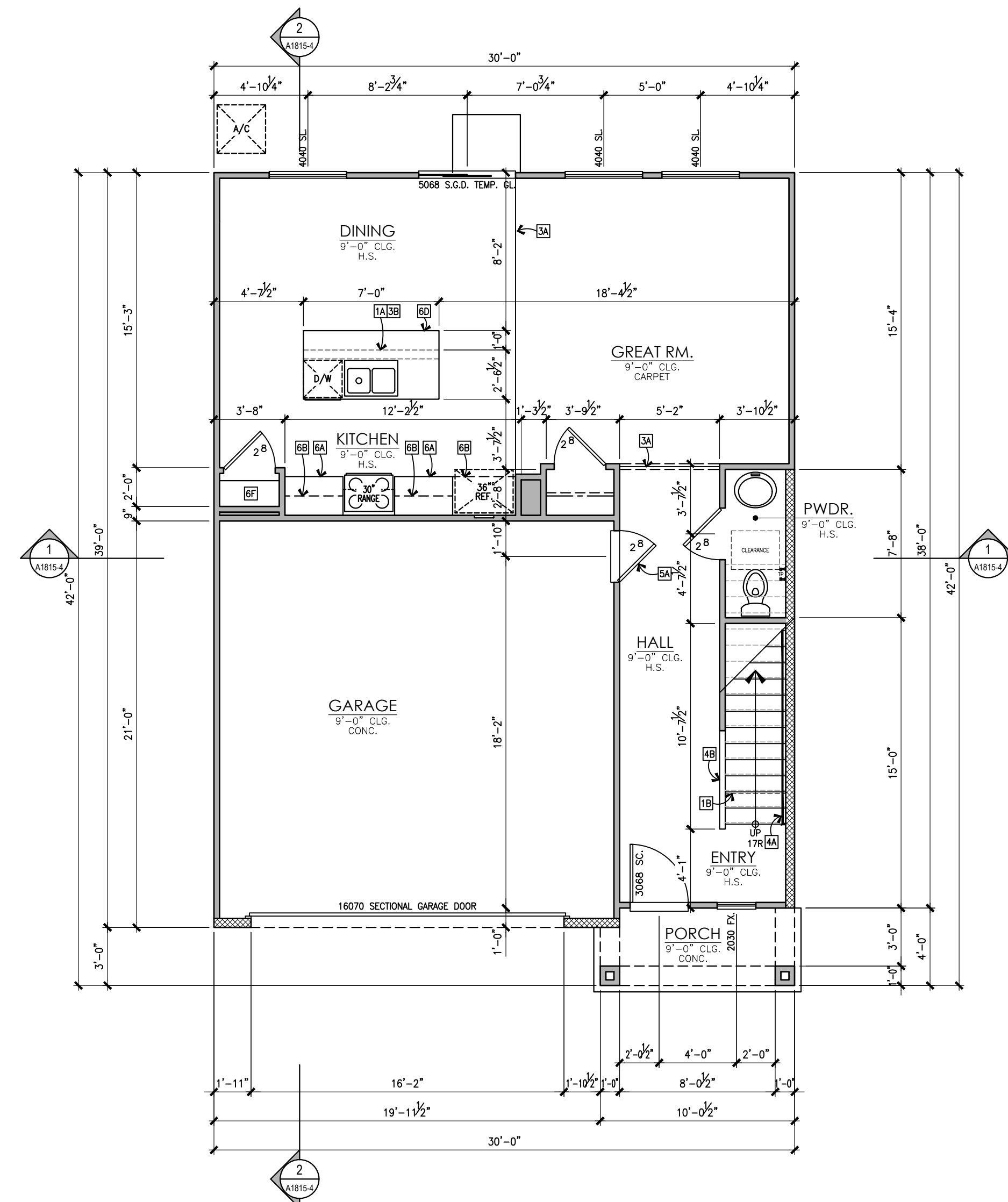
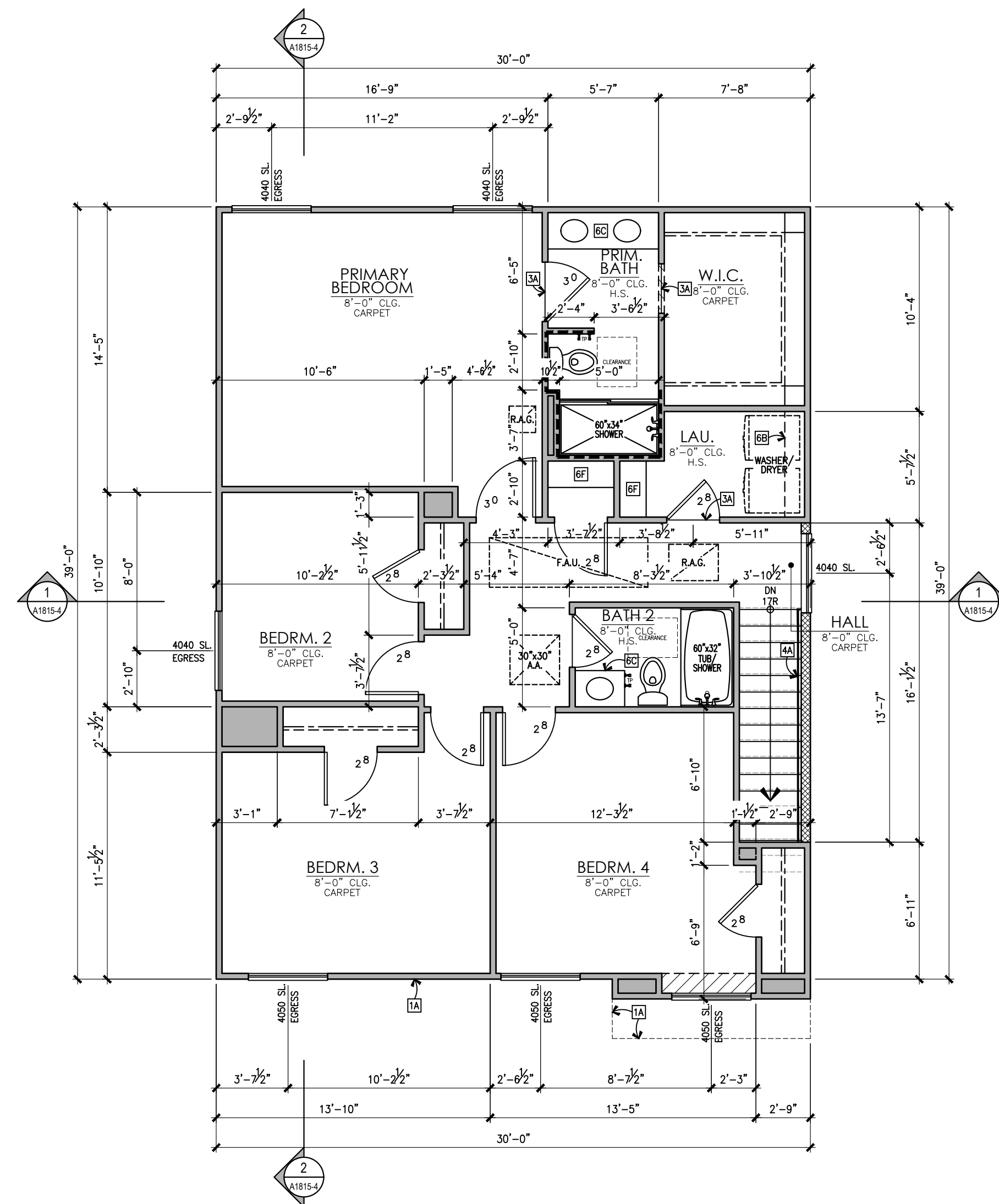
© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

C - STYLE

L016 VAIL (1855)
FRONT ELEVATIONS

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24





PLAN 2		
AREA TABULATION		
<u>CONDITIONED SPACE</u>		
FIRST FLOOR AREA	727	SQ. FT.
SECOND FLOOR AREA	1,128	SQ. FT.
TOTAL DWELLING	1,855	SQ. FT.
<u>UNCONDITIONED SPACE</u>		
GARAGE	434	SQ. FT.
PORCH "A"	39	SQ. FT.

L016 VAIL (1855)
4 BEDROOM, 2.5 BATH
FLOOR PLAN

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24

LENNAR

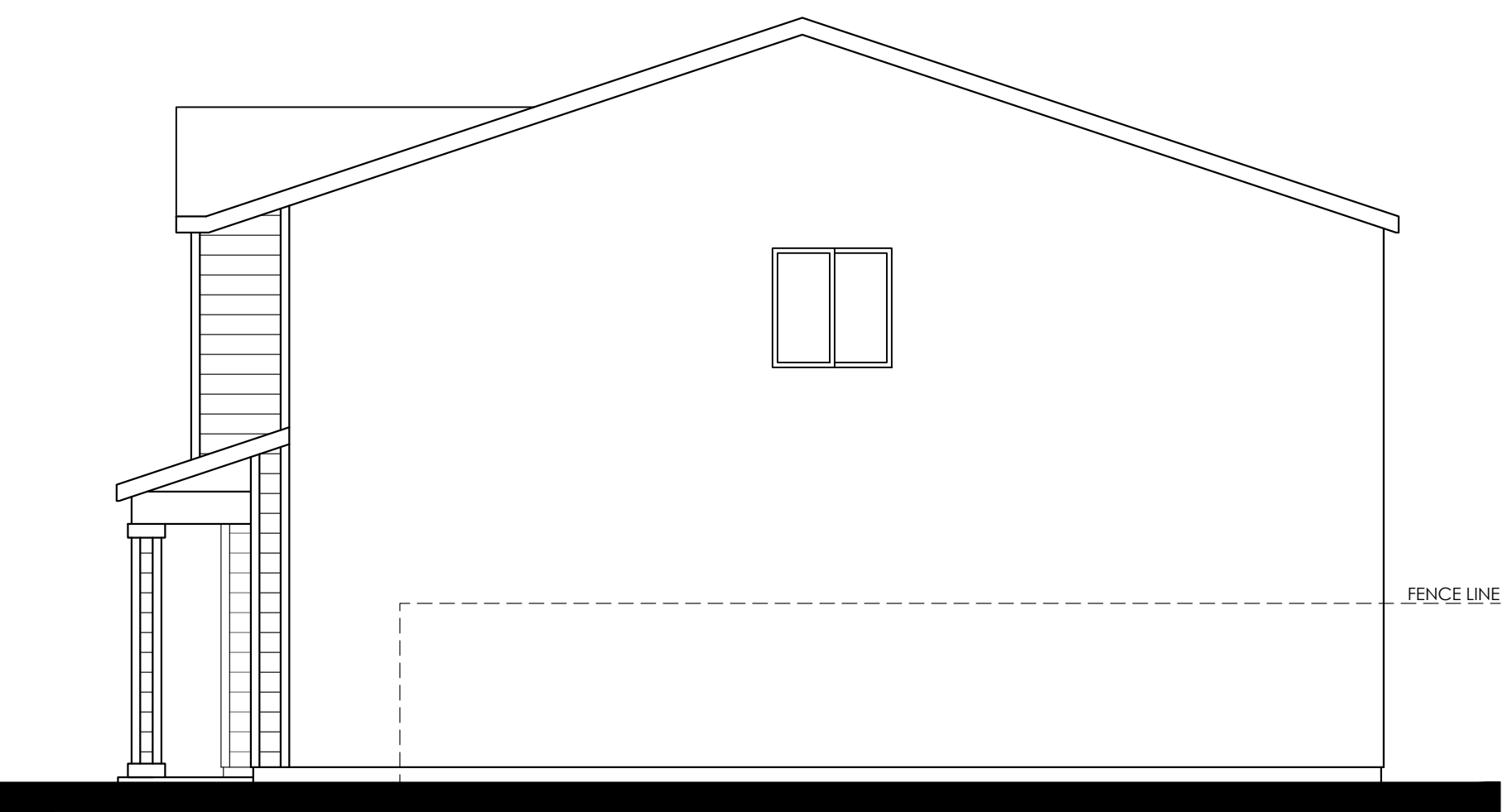
Kevin L. Crook
Architect
Inc
PLANNING + ARCHITECTURE

PLANNING + ARCHITECTURE V. 3.0
© Copyright: All Rights Reserved
Plot Dated: Oct 02, 2024
Project: Bus, Noida, India 225-684

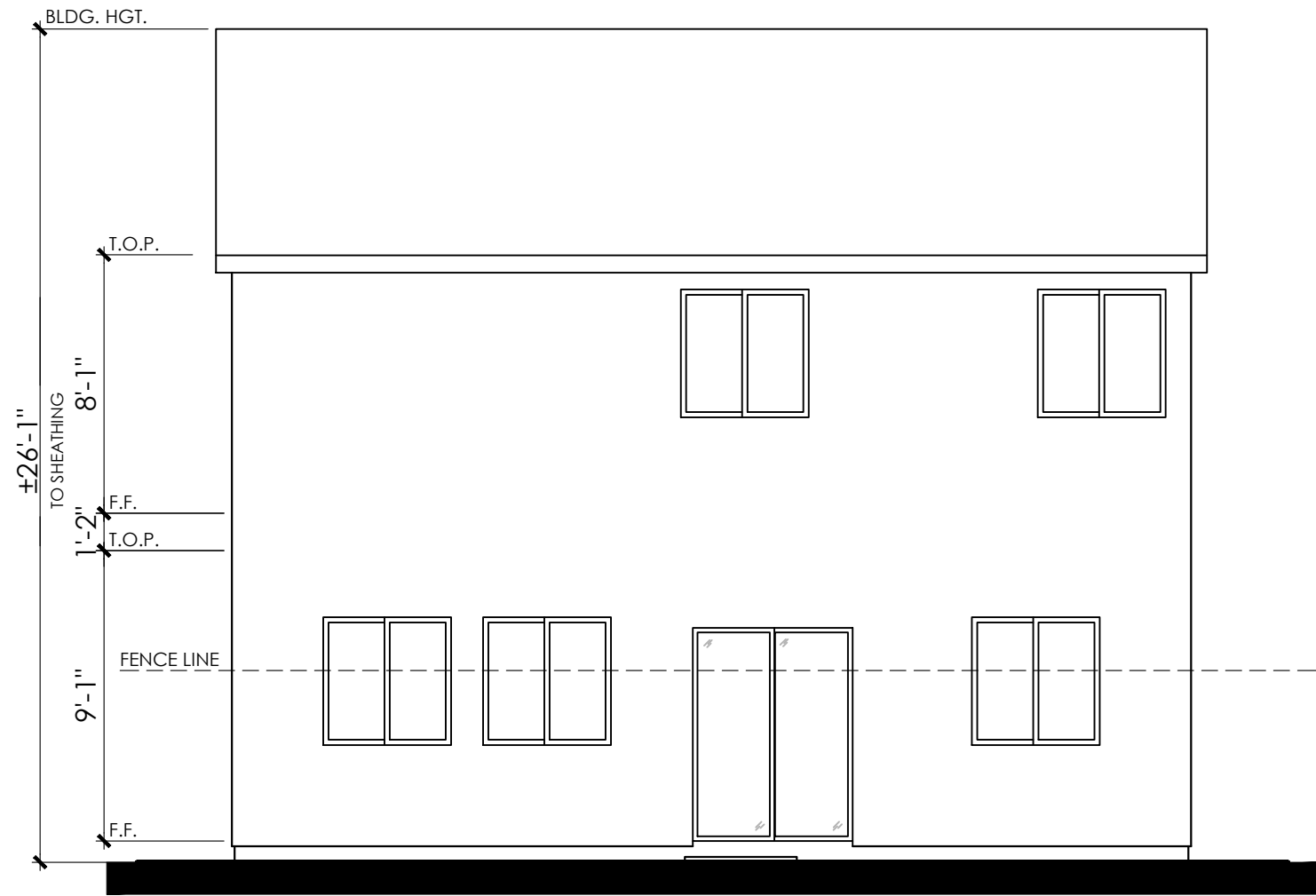


© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

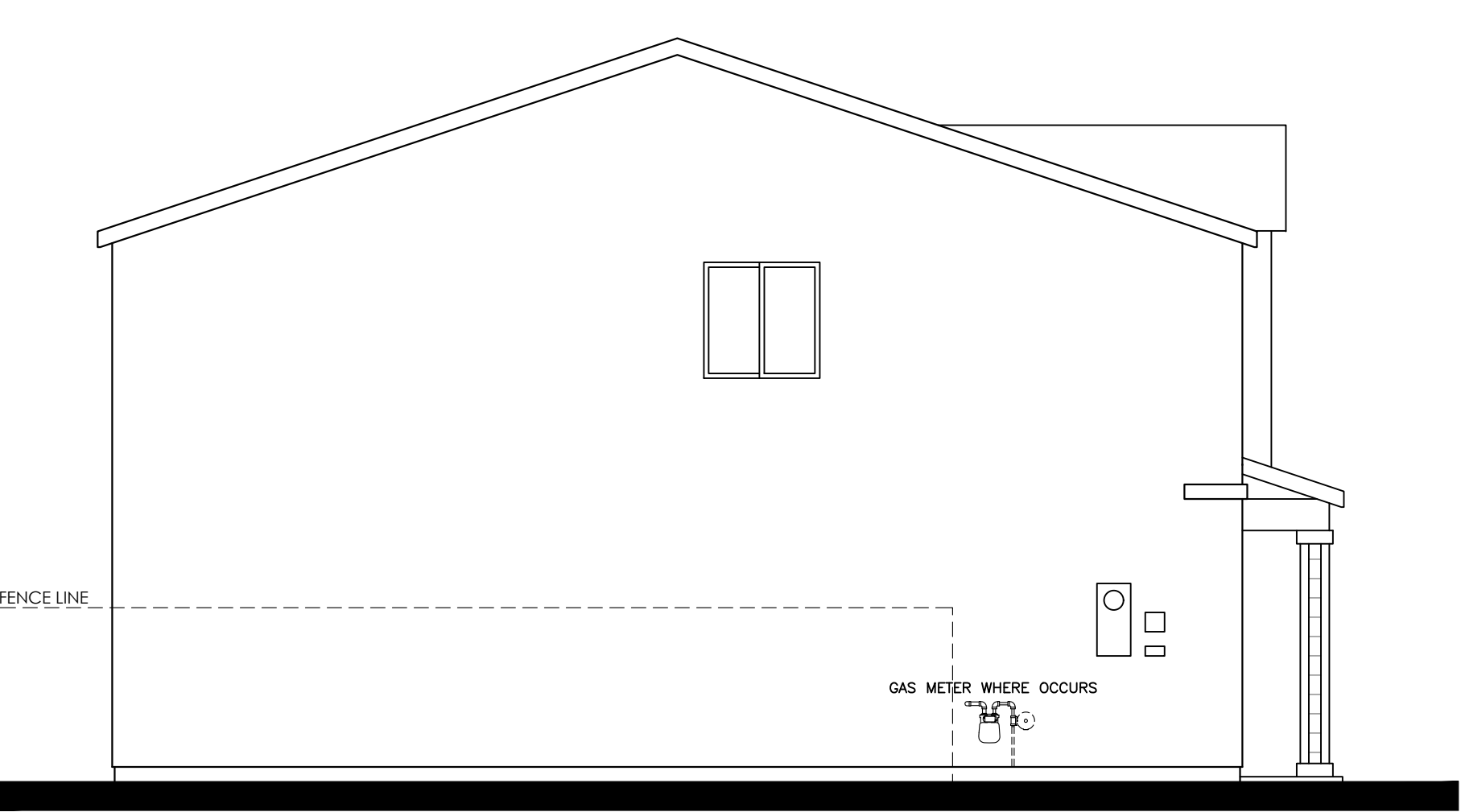
FRONT



RIGHT



REAR



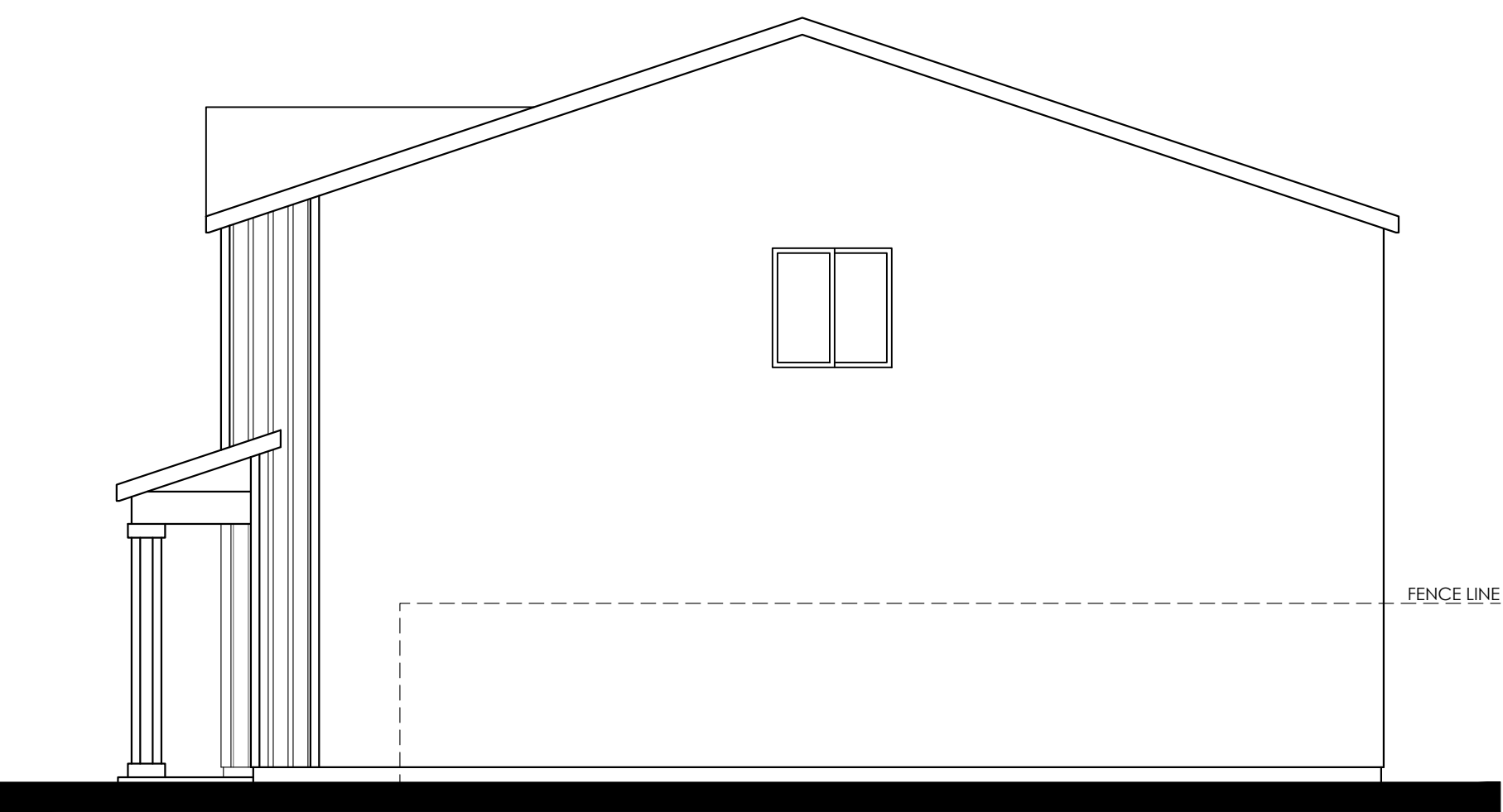
LEFT

L016 VAIL (1855)
"A" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24

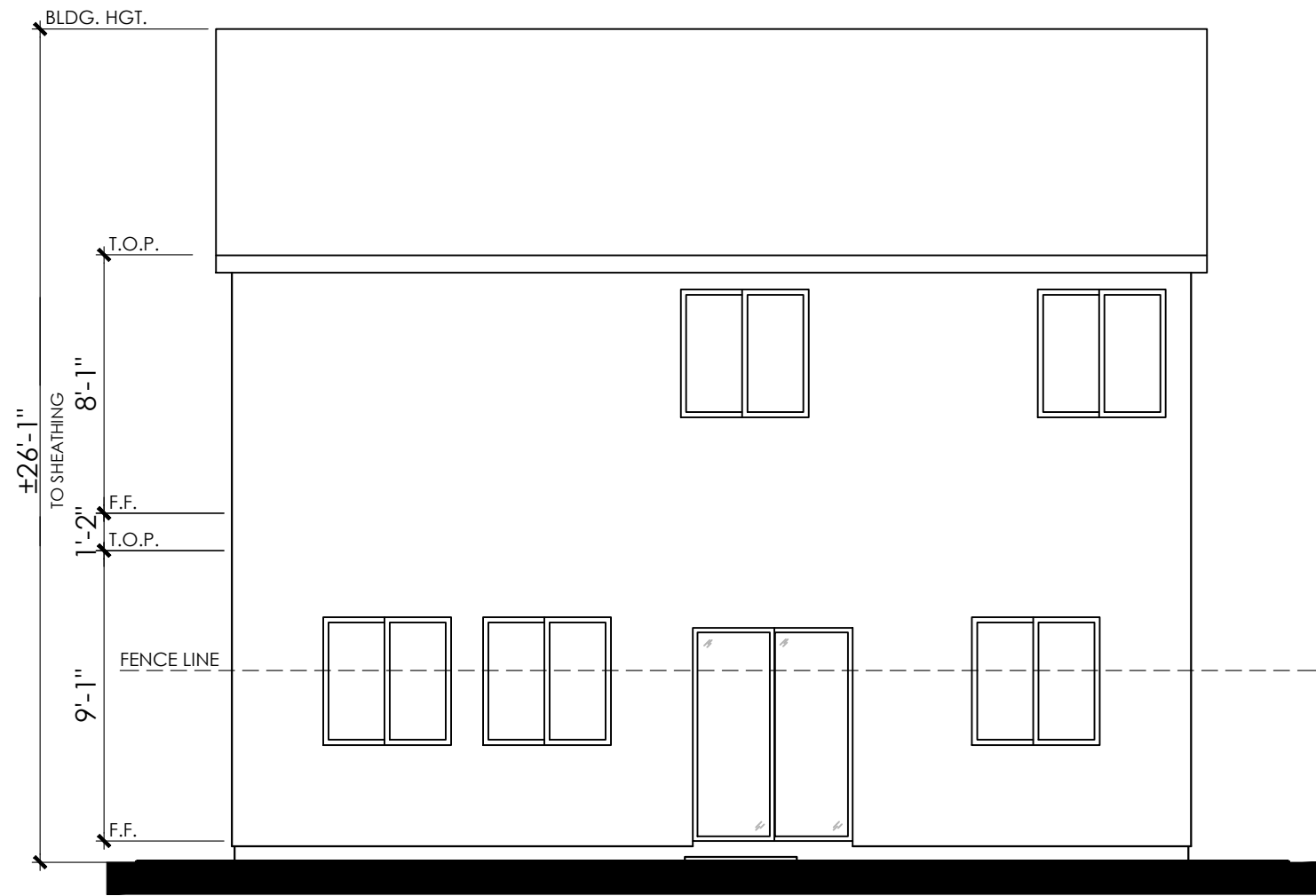


© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

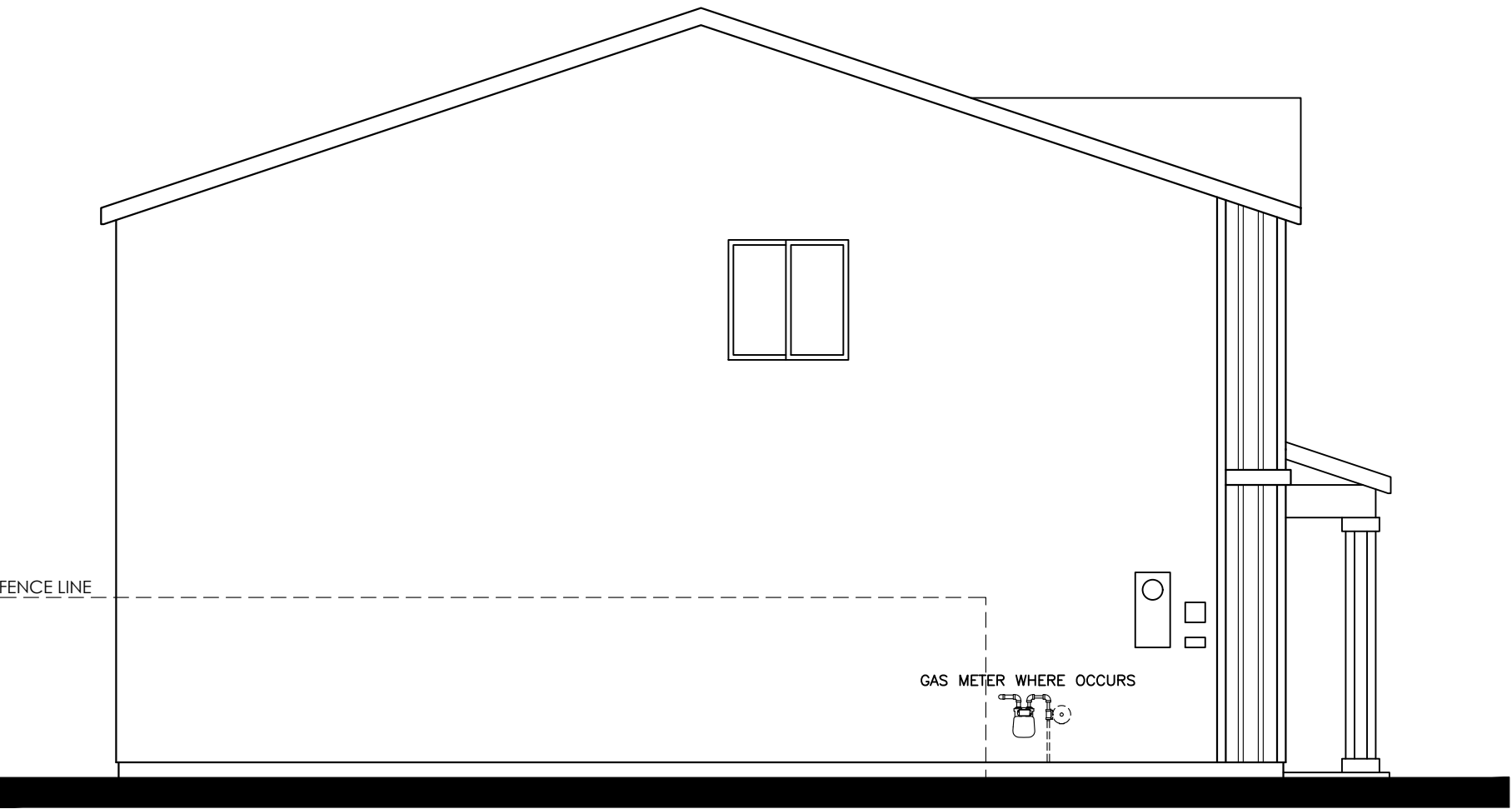
FRONT



RIGHT



REAR



LEFT

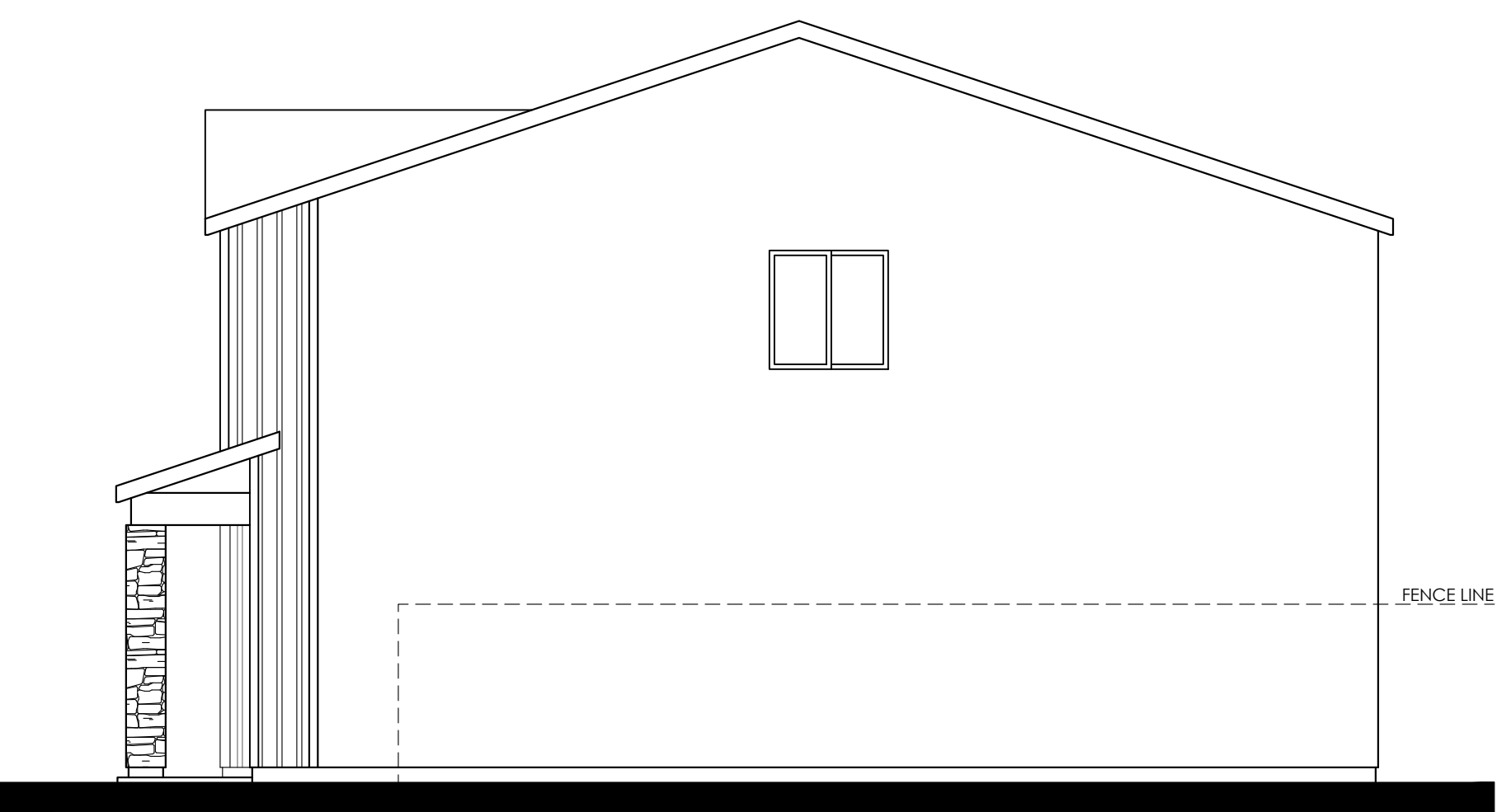
L016 VAIL (1855)
"B" -STYLE- ELEVATIONS

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24

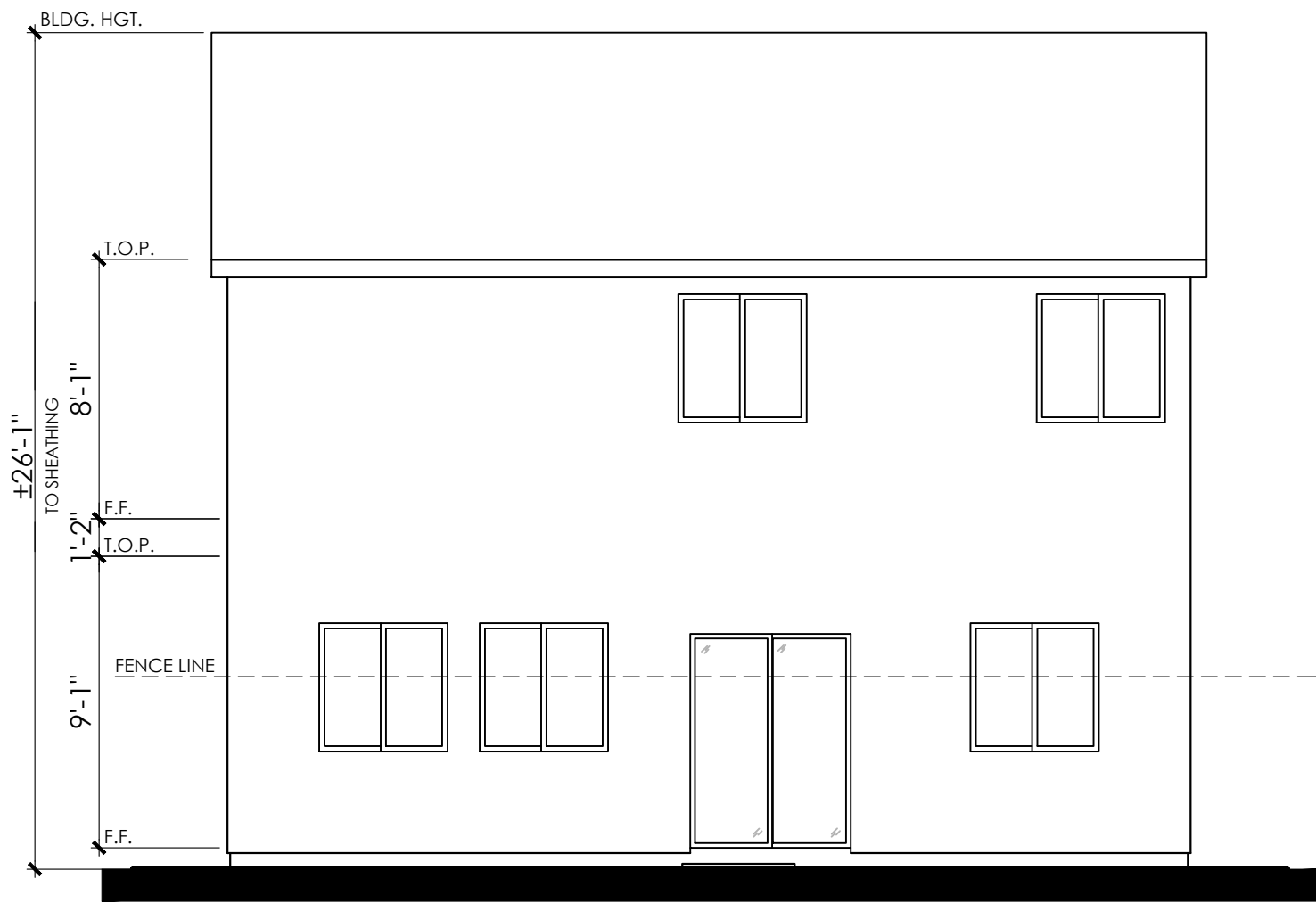


© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

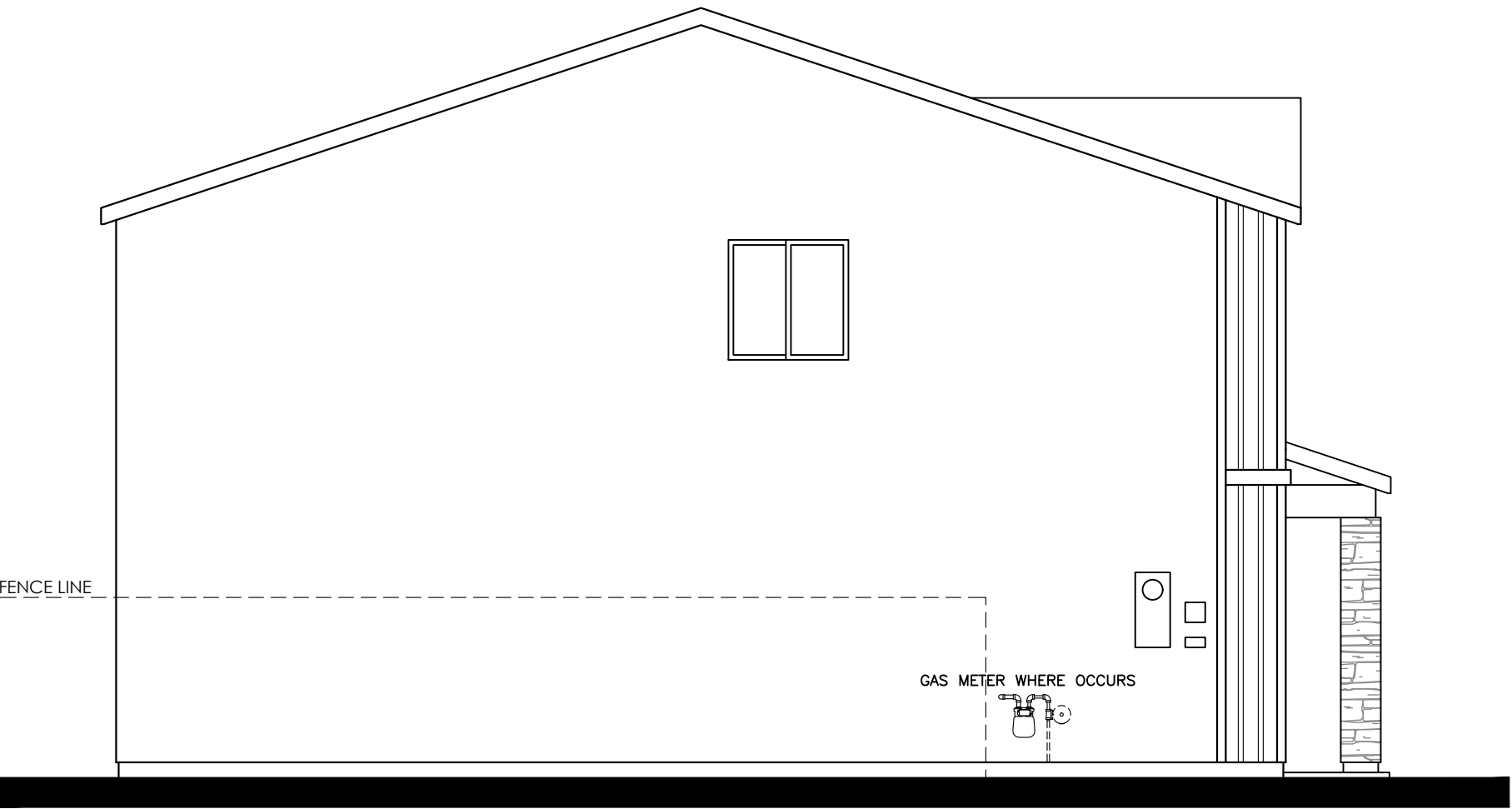
FRONT



RIGHT

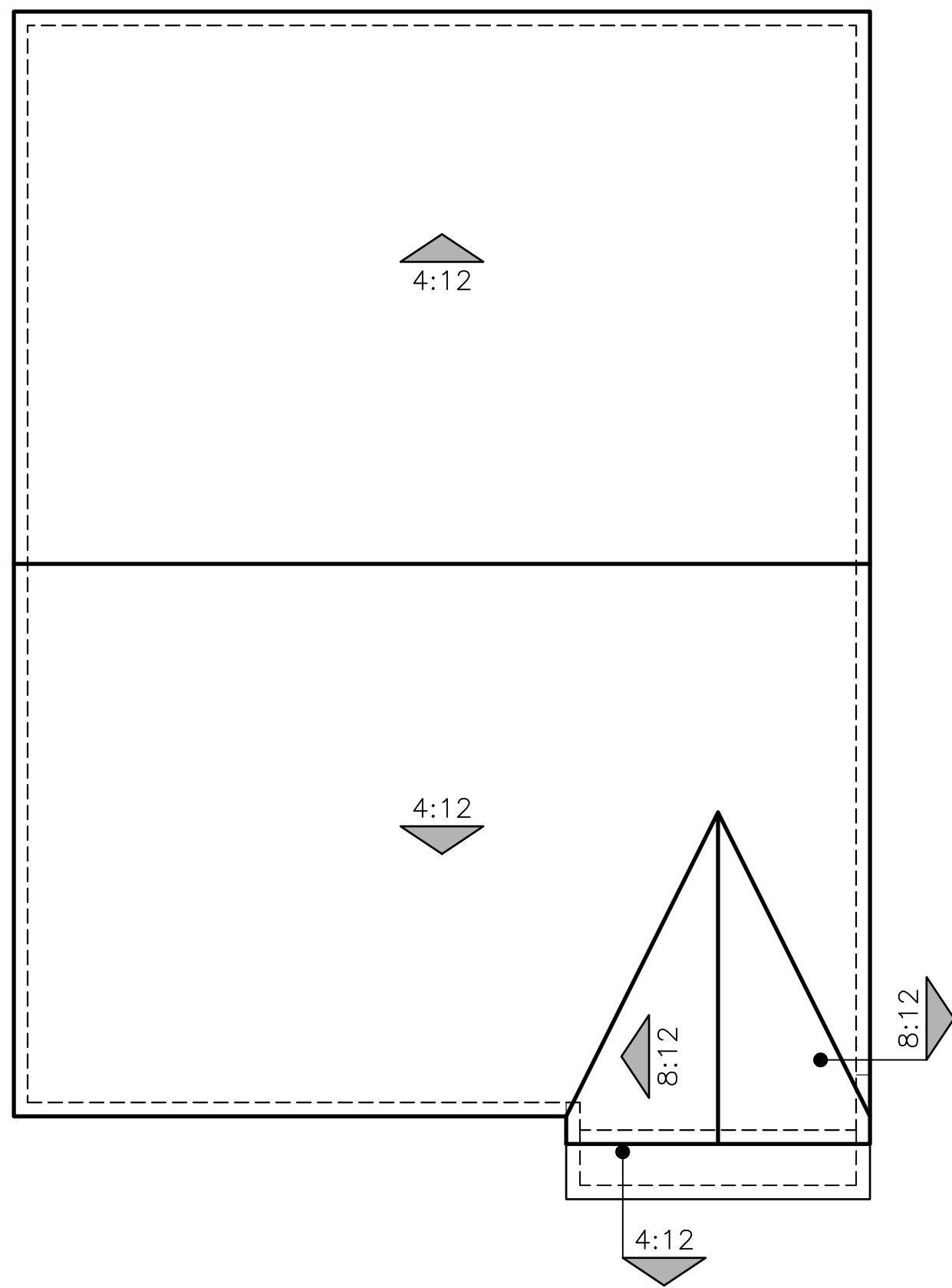


REAR

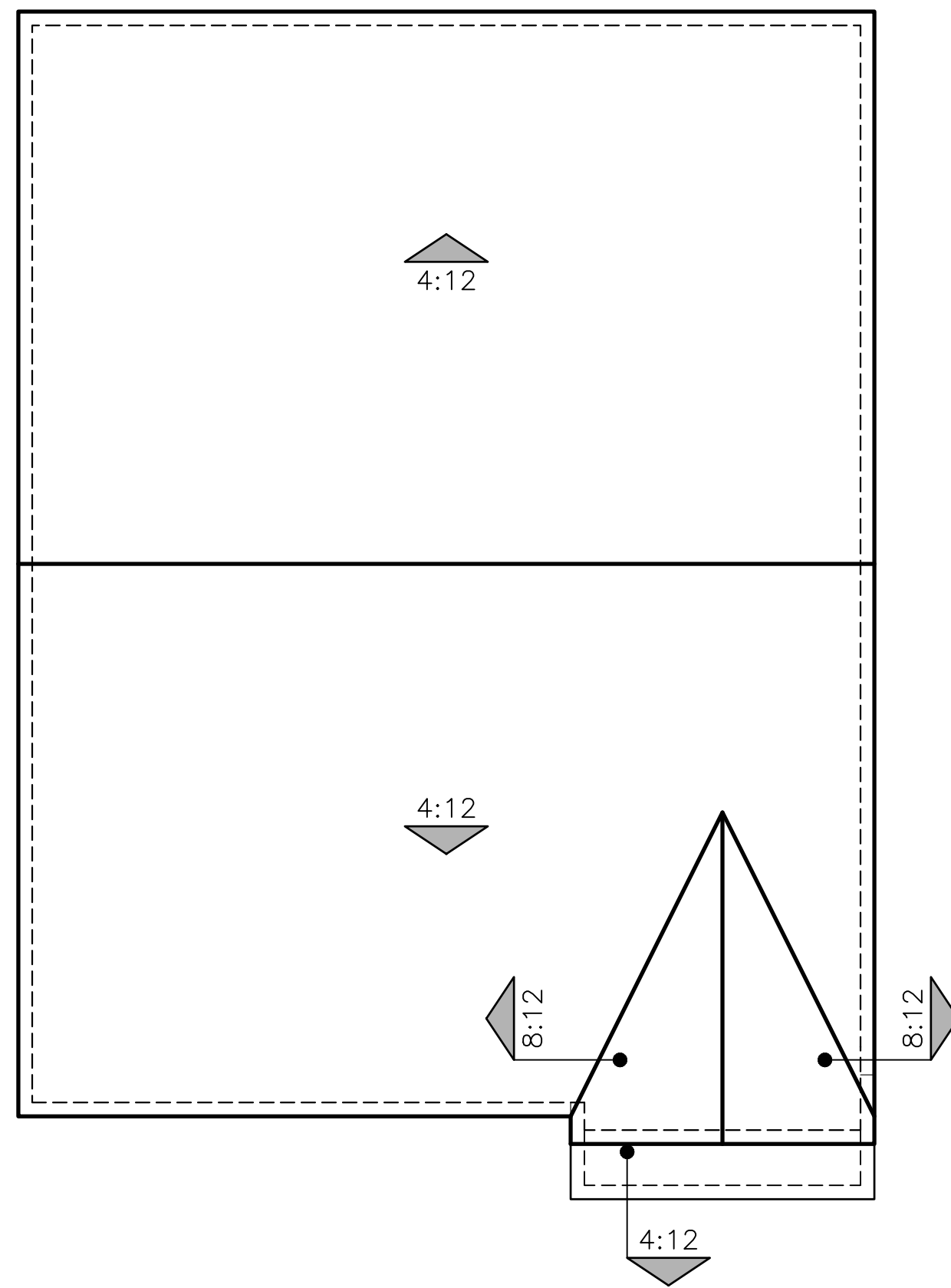


LEFT

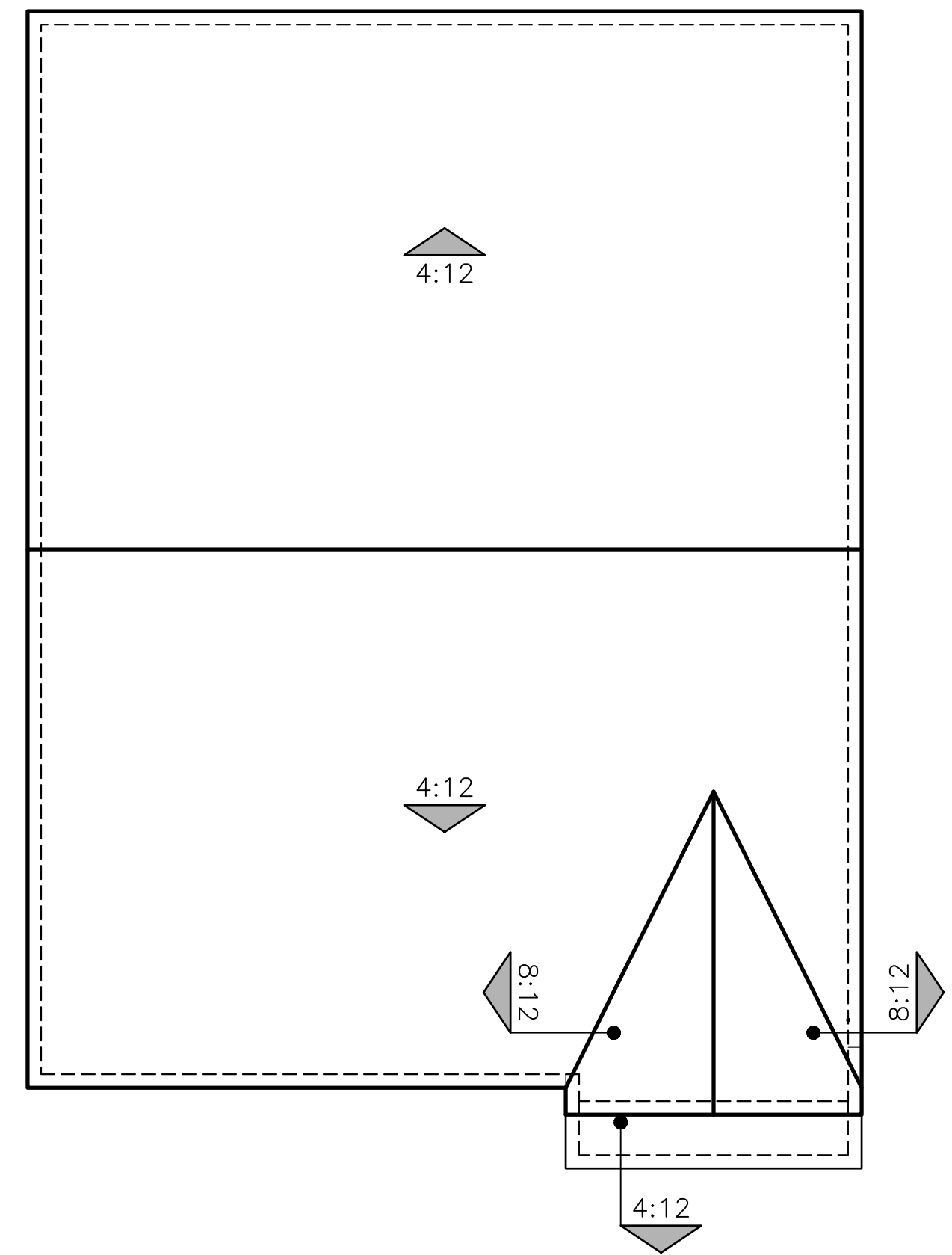
L016 VAIL (1855)
"C" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



A - STYLE



B - STYLE



C - STYLE

L016 VAIL (1855)

ROOF PLANS

CENTRAL VALLEY 30'

CALIFORNIA
09/18/24

0 2 4 8 12



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

A - STYLE



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

B - STYLE



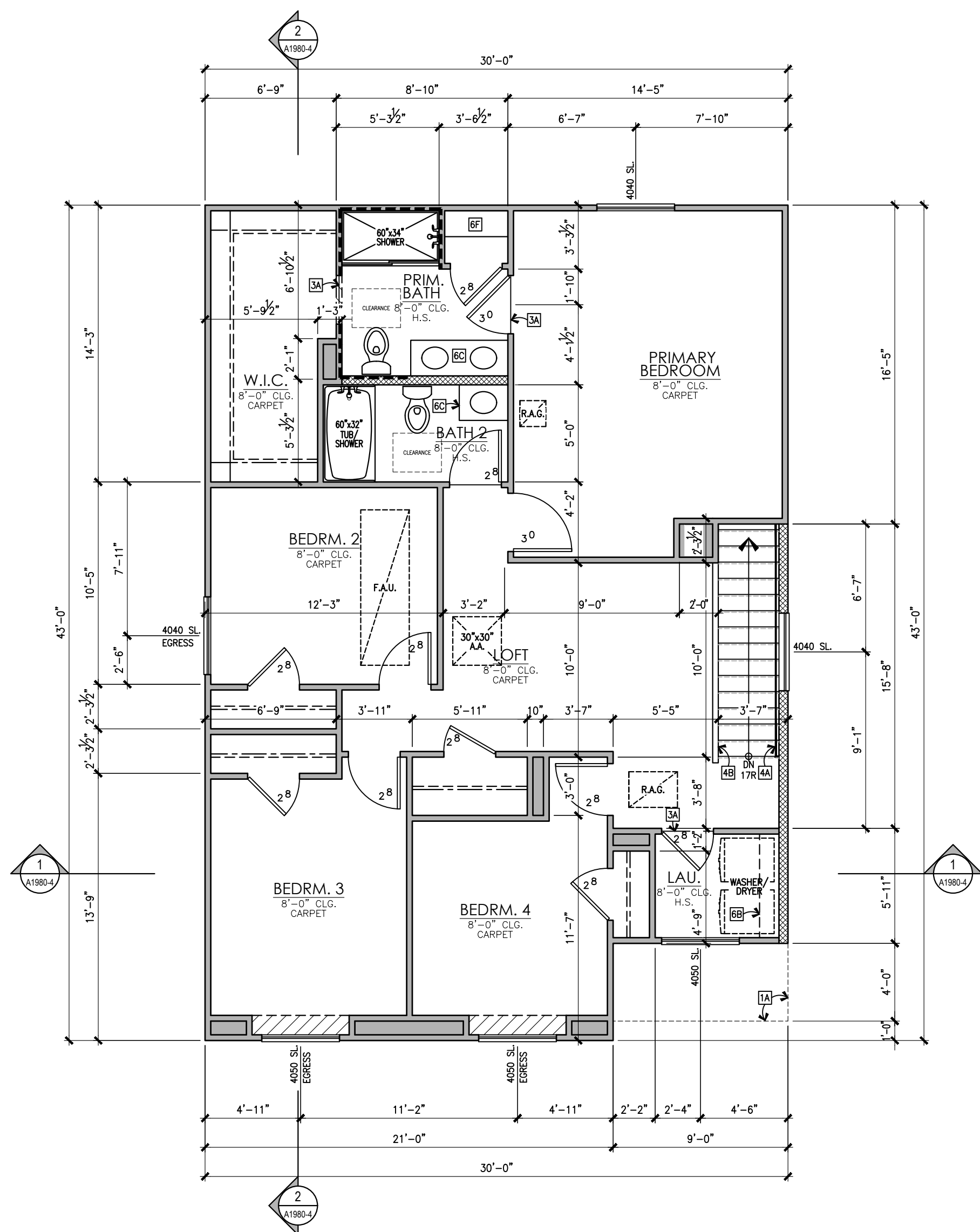
© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

C - STYLE

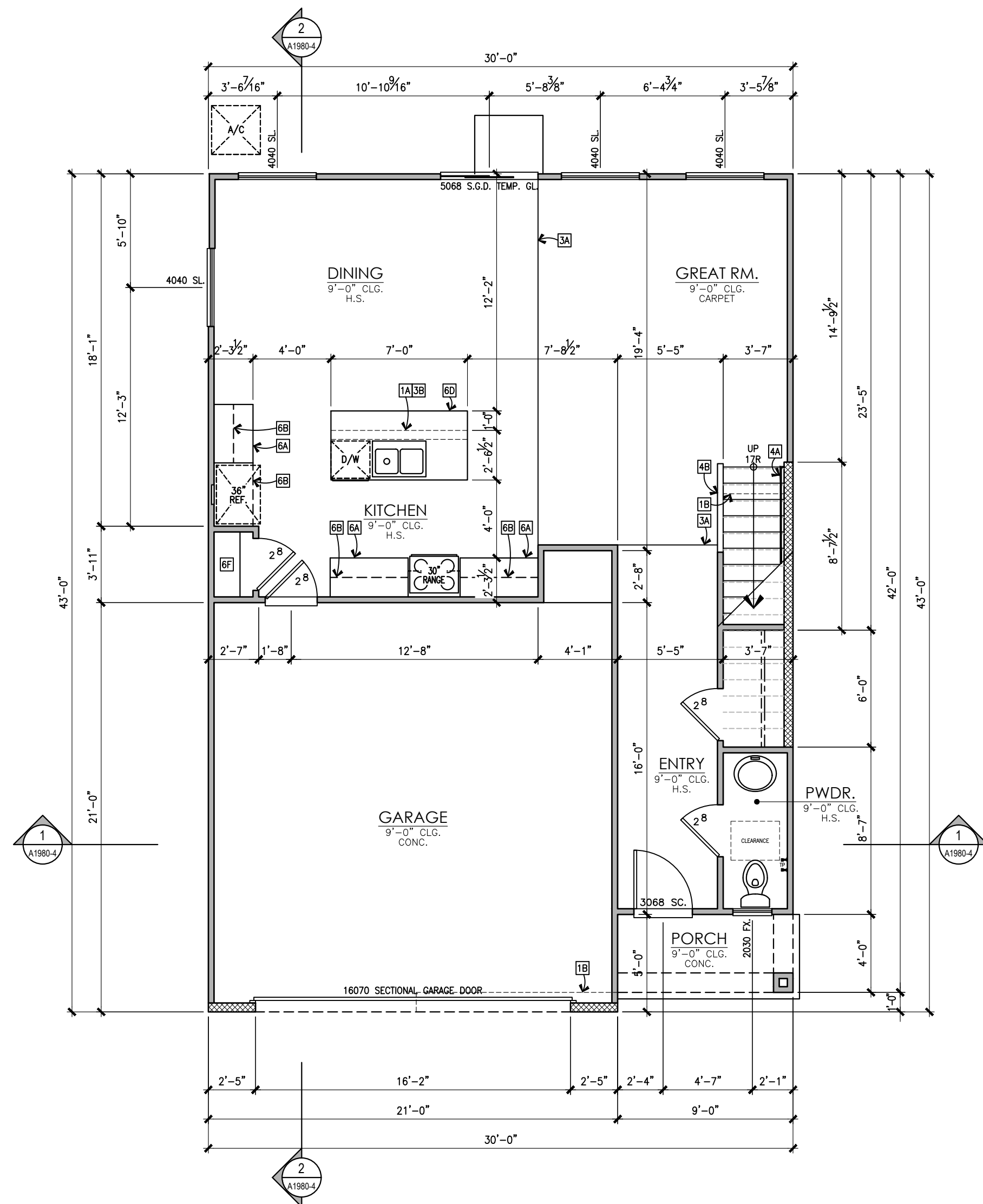
L034 BROADMOOR (1980)
FRONT ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24

L034 BROADMOOR (1980)
4 BEDROOM, 2.5 BATH, LOFT
FLOOR PLAN

CENTRAL VALLEY 30'
CALIFORNIA
09/18/24

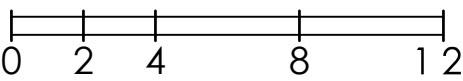


SECOND FLOOR



FIRST FLOOR

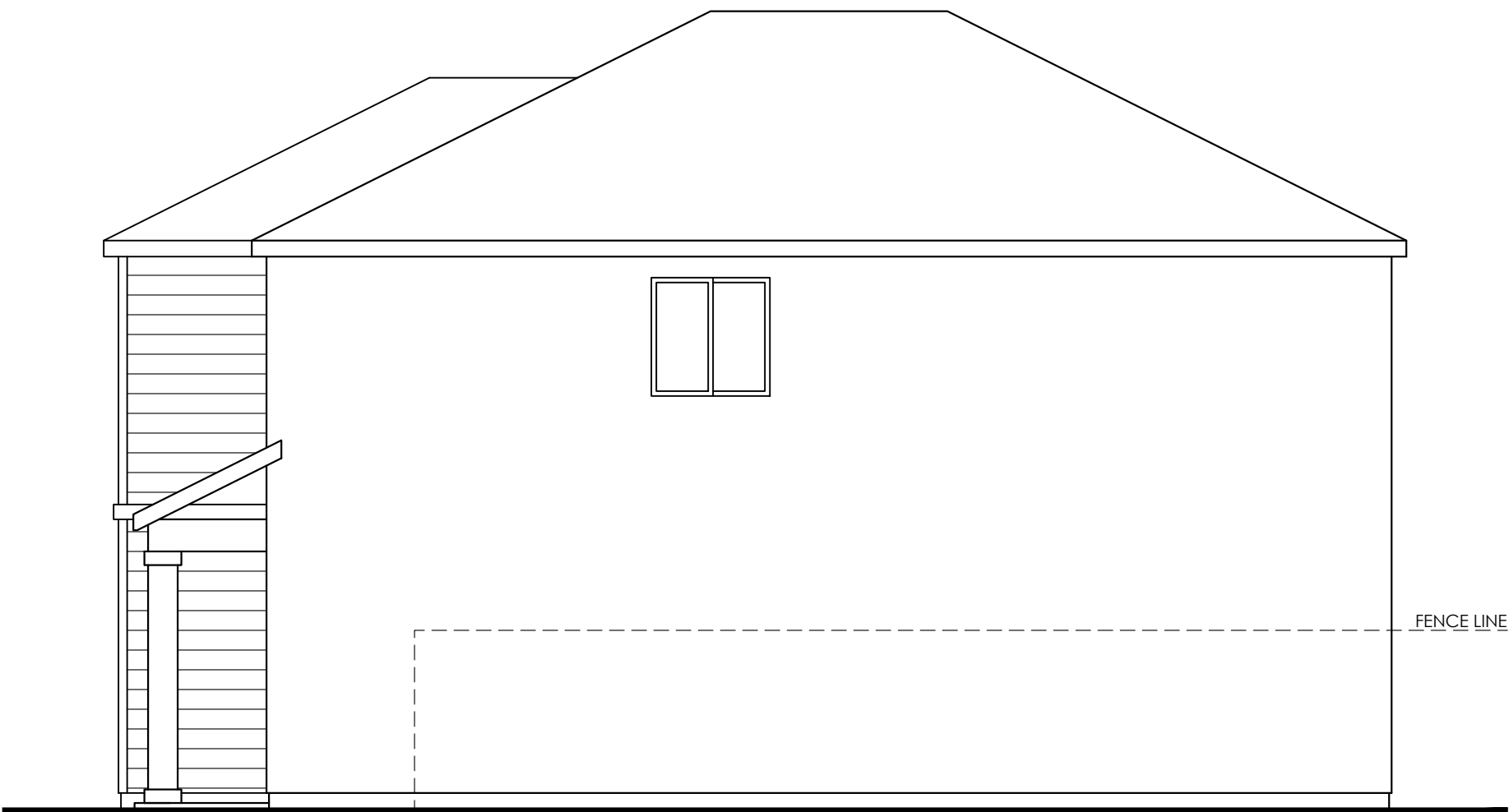
PLAN 3 AREA TABULATION	
CONDITIONED SPACE	
FIRST FLOOR AREA	799 SQ. FT.
SECOND FLOOR AREA	1,181 SQ. FT.
TOTAL DWELLING	1,980 SQ. FT.
UNCONDITIONED SPACE	
GARAGE	446 SQ. FT.
PORCH "A"	36 SQ. FT.





© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

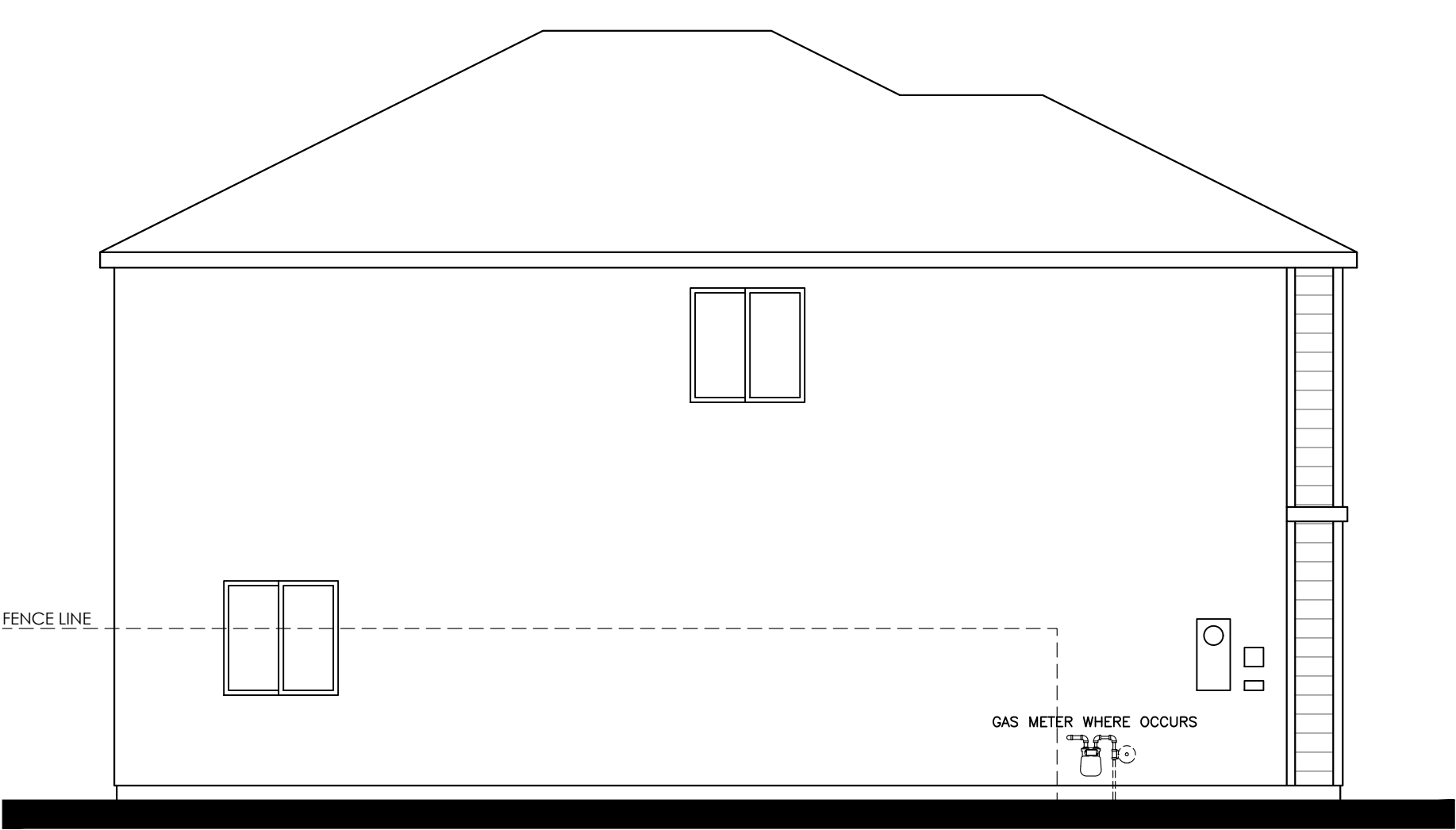
FRONT



RIGHT



REAR



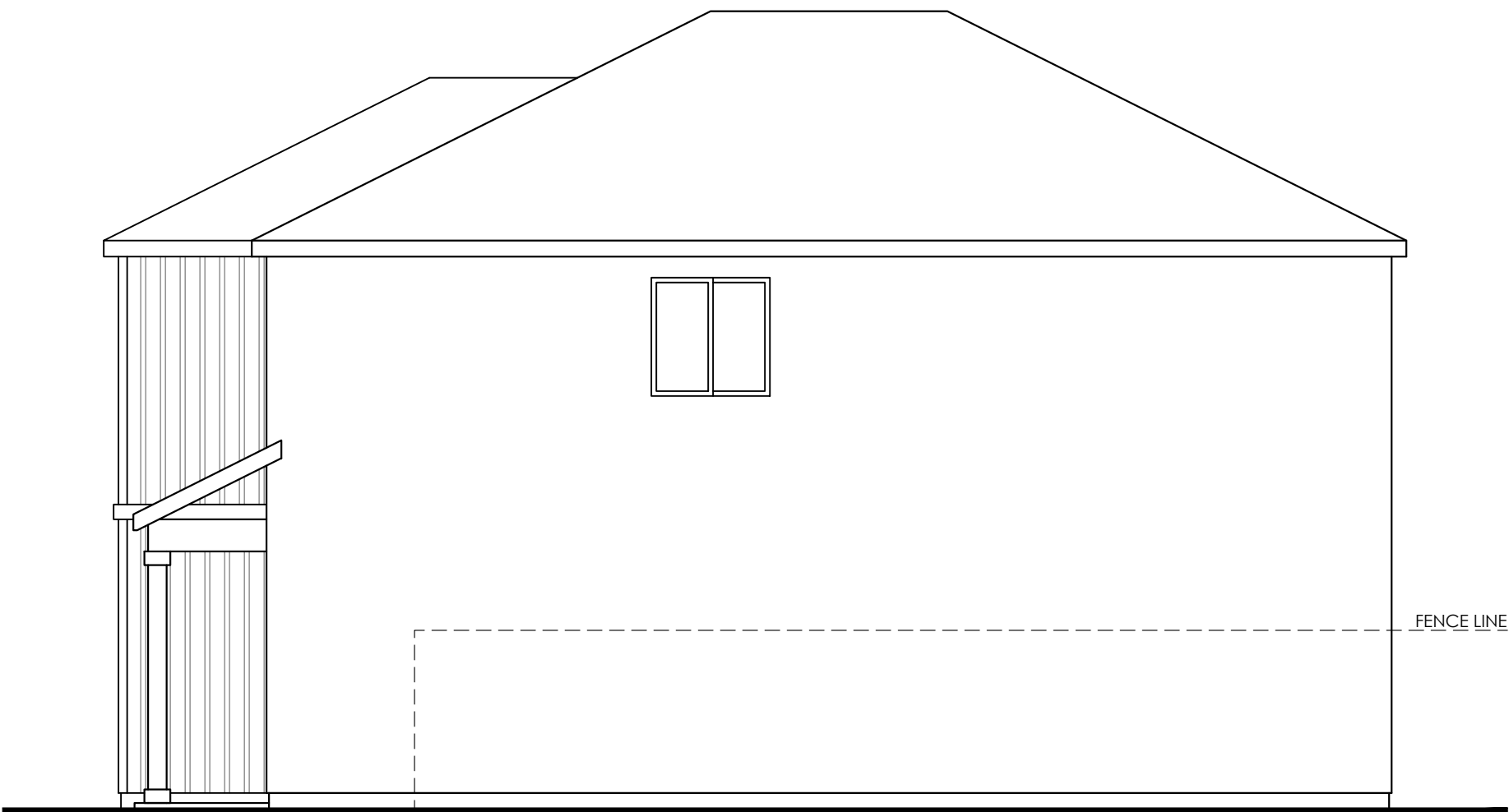
LEFT

L034 BROADMOOR (1980)
"A" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

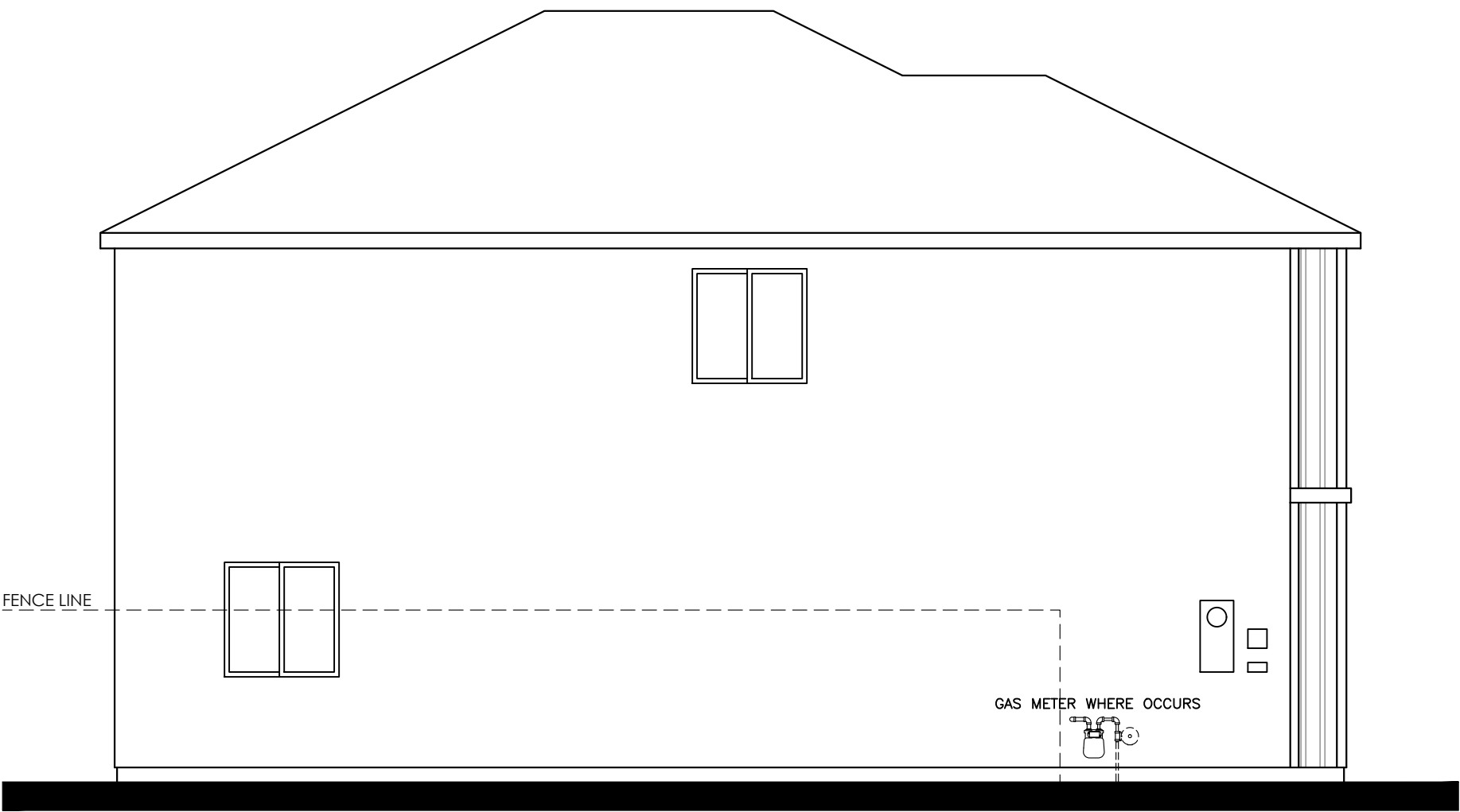
FRONT



RIGHT



REAR



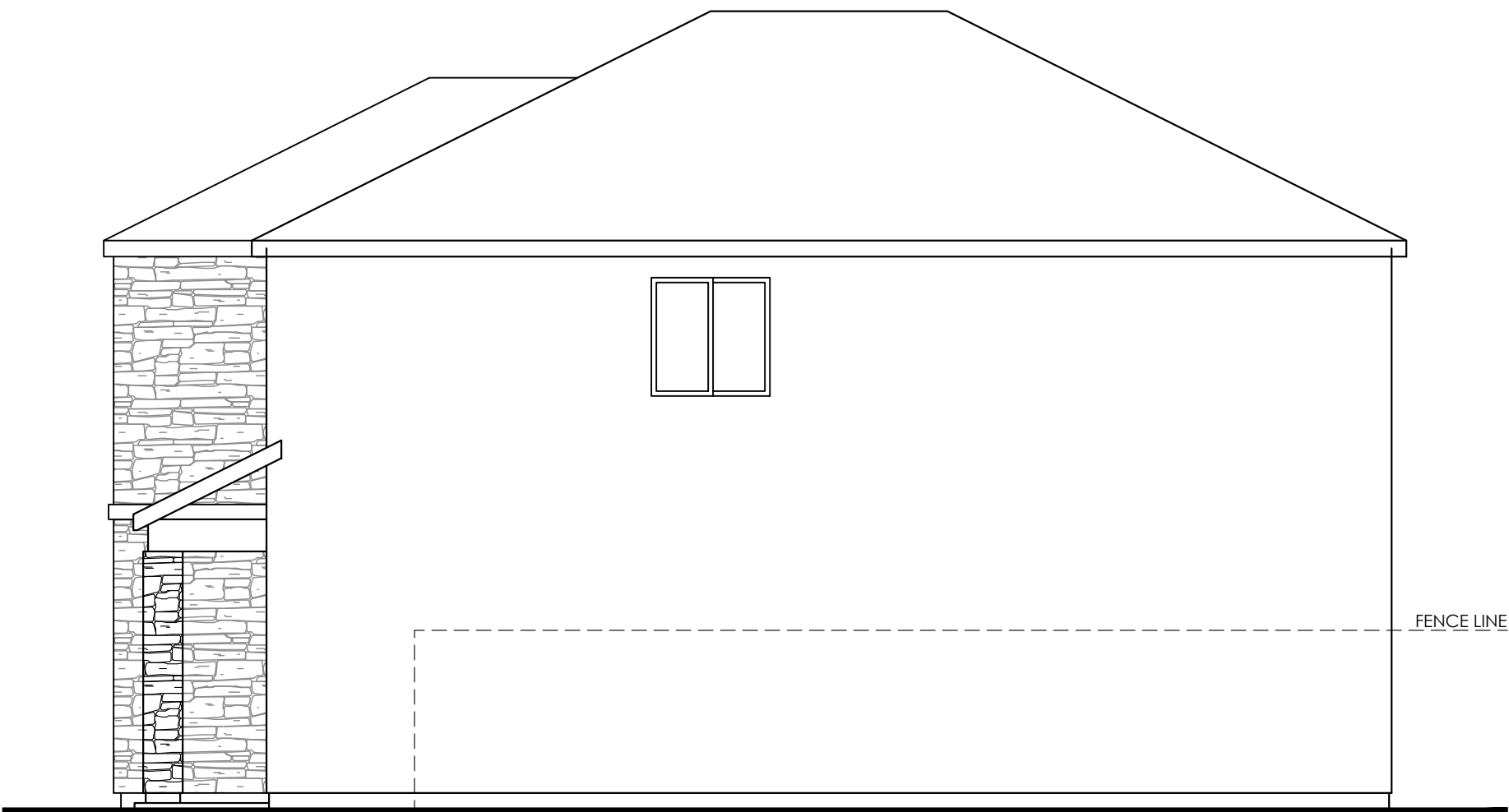
LEFT

L034 BROADMOOR (1980)
"B" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



© 2024 Kevin L. Crook Architect, Inc. Refer to landscape drawings for wall, tree, and shrub locations

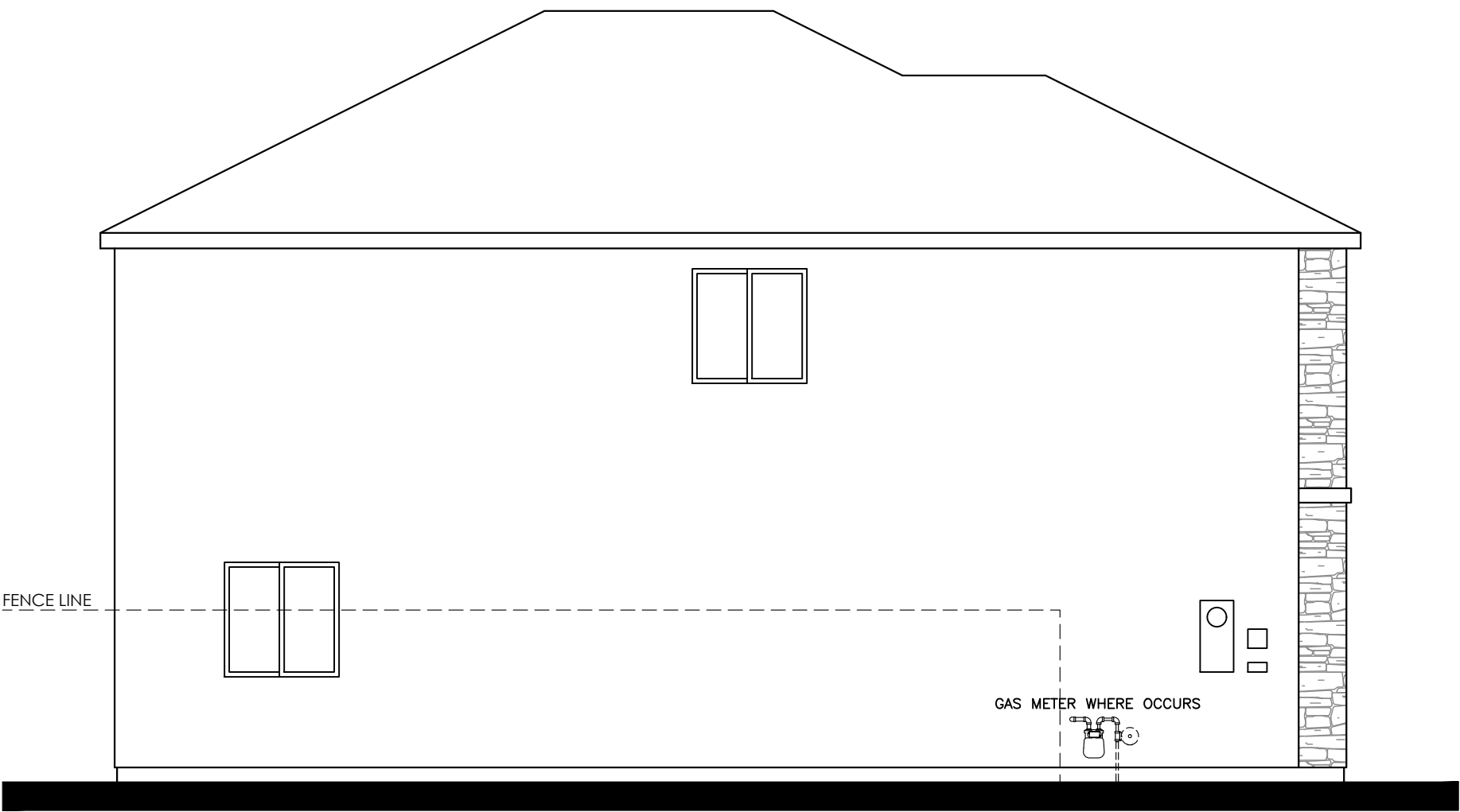
FRONT



RIGHT

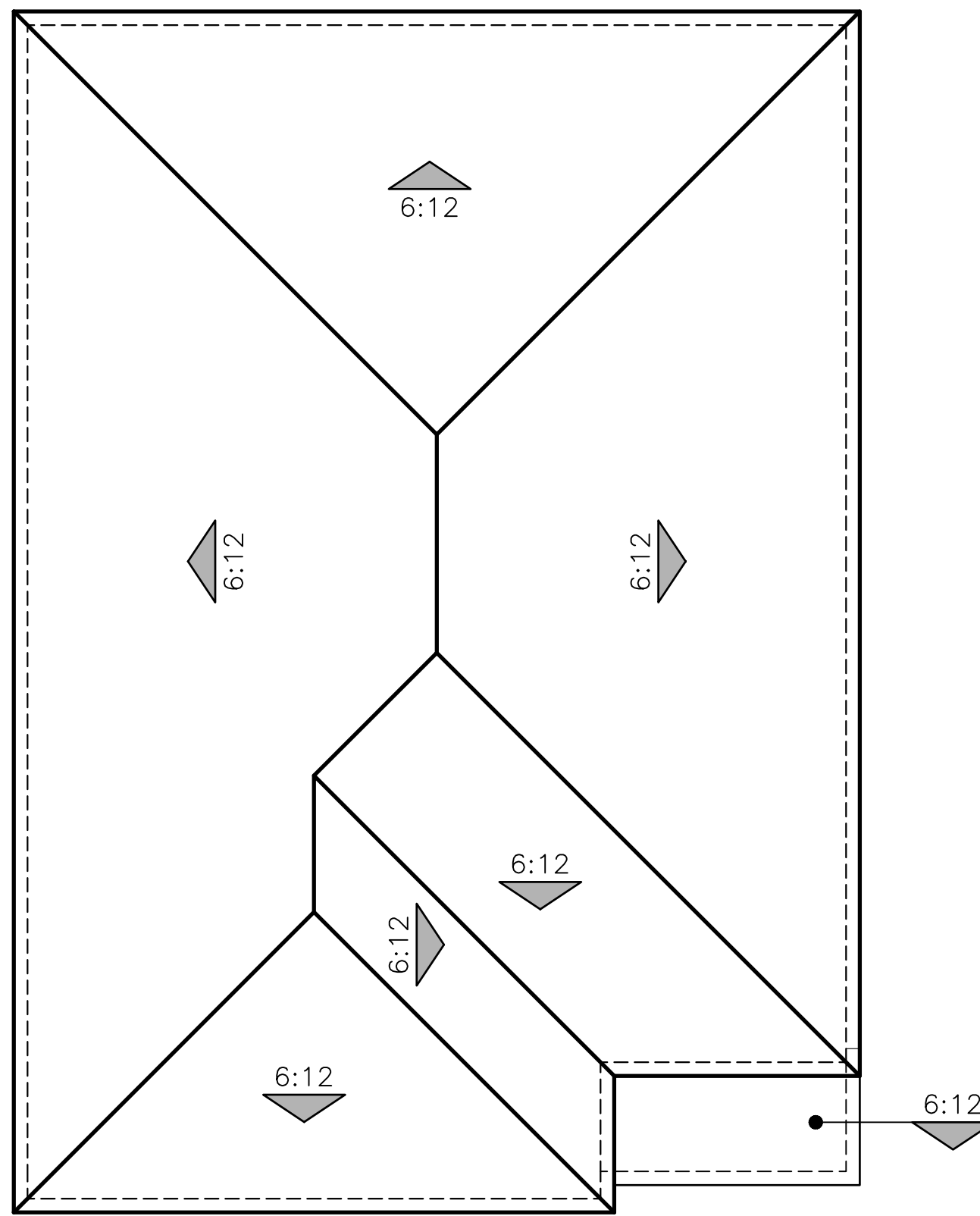


REAR

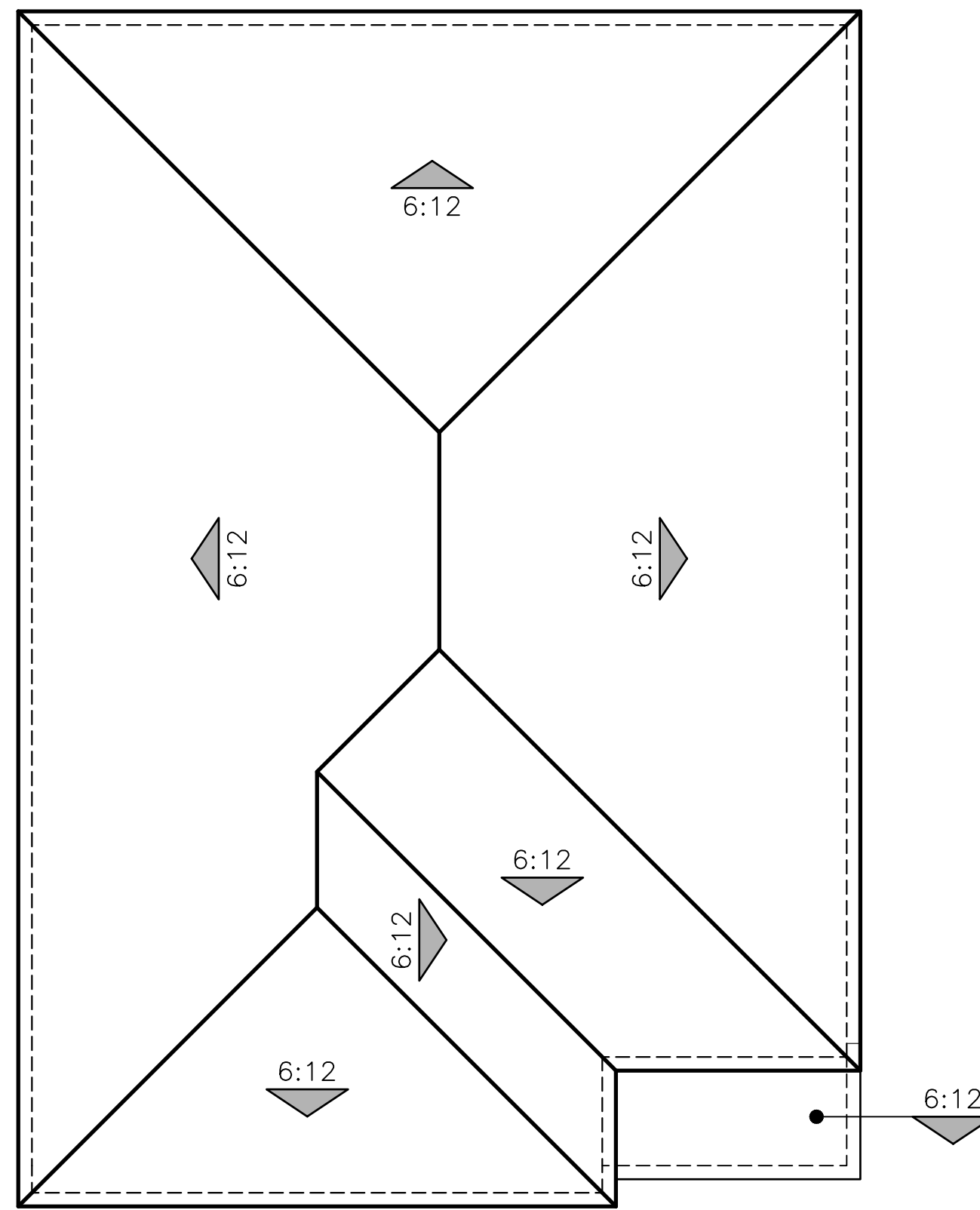


LEFT

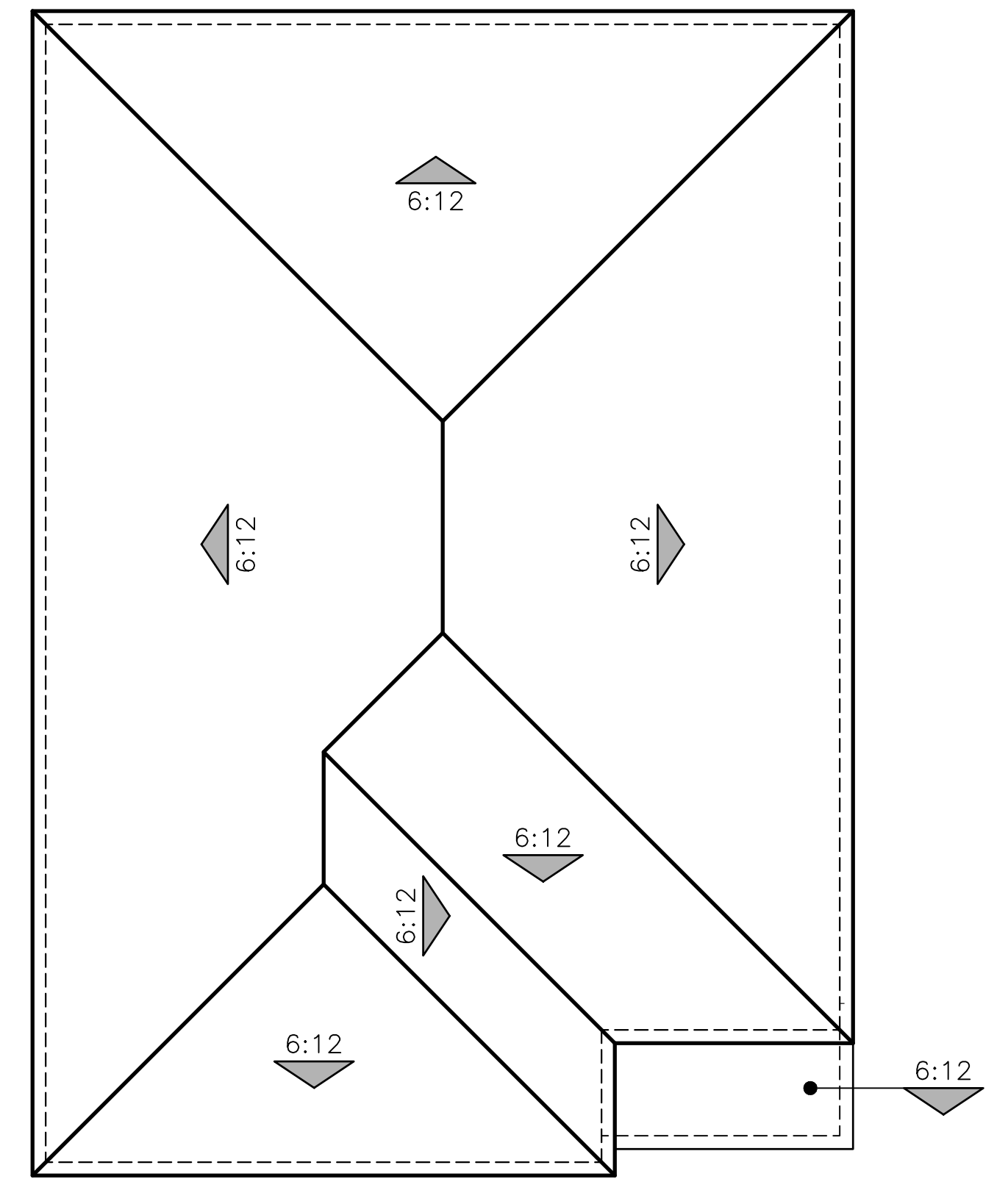
L034 BROADMOOR (1980)
"C" -STYLE- ELEVATIONS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24



A - STYLE



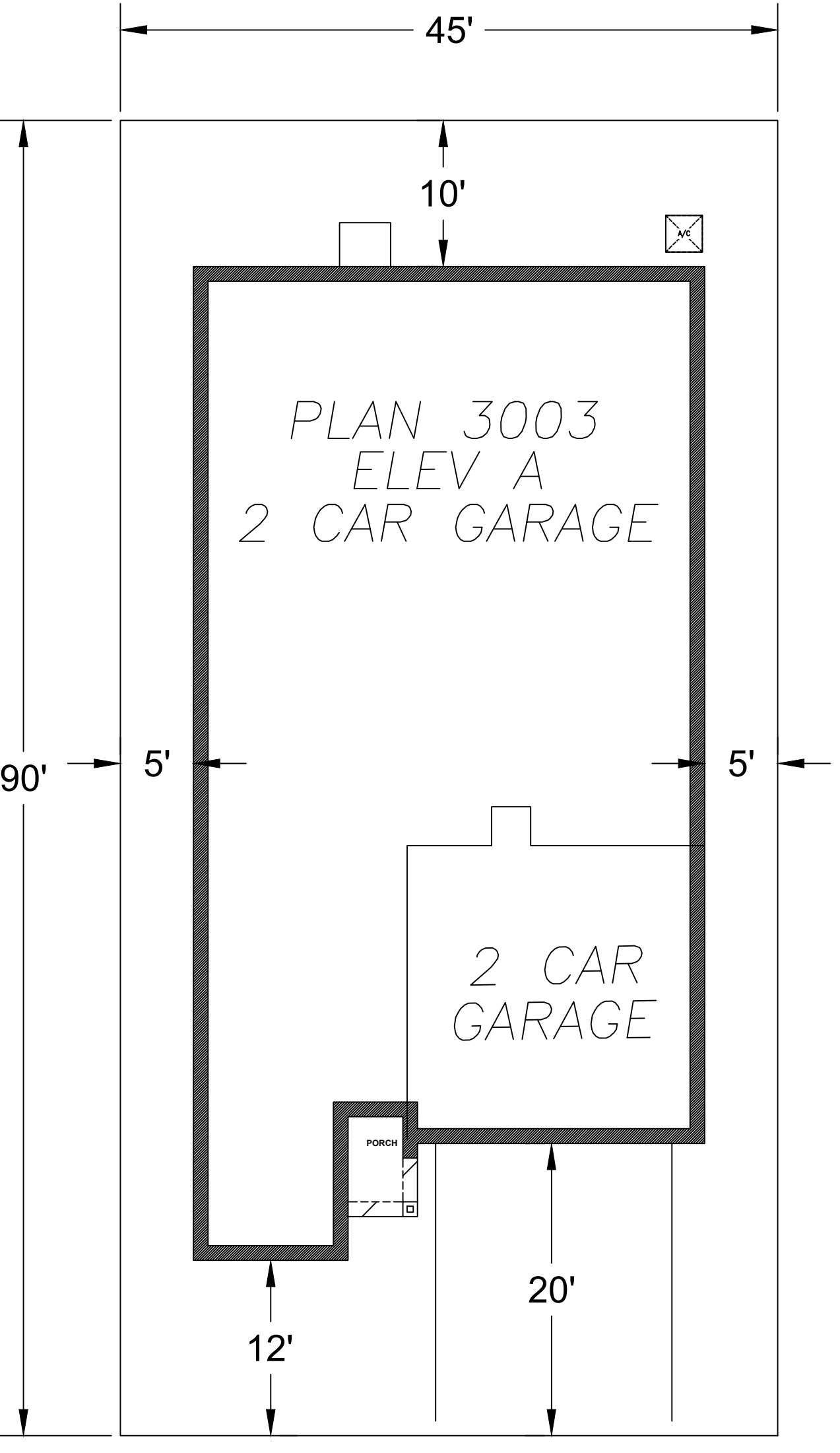
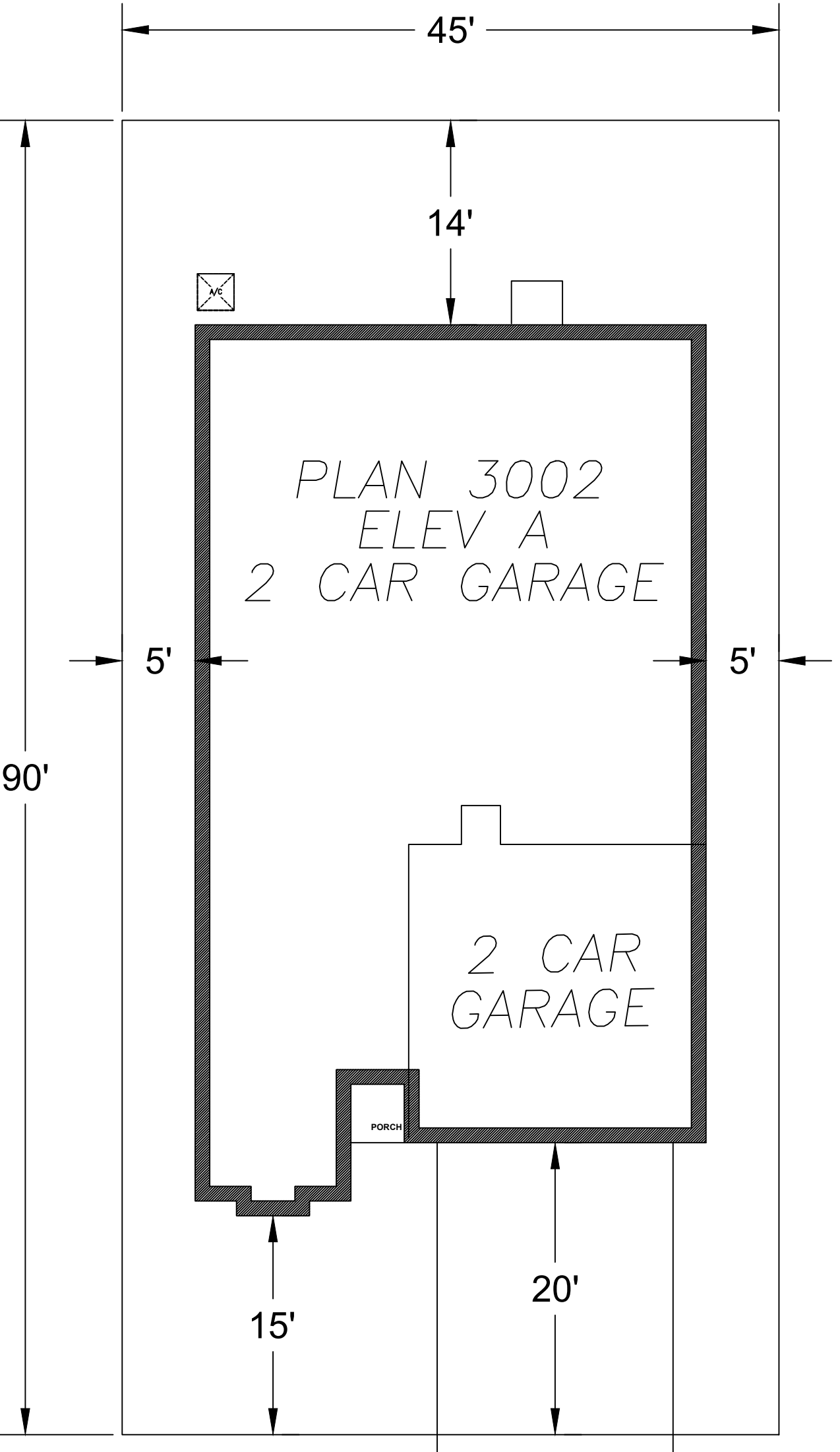
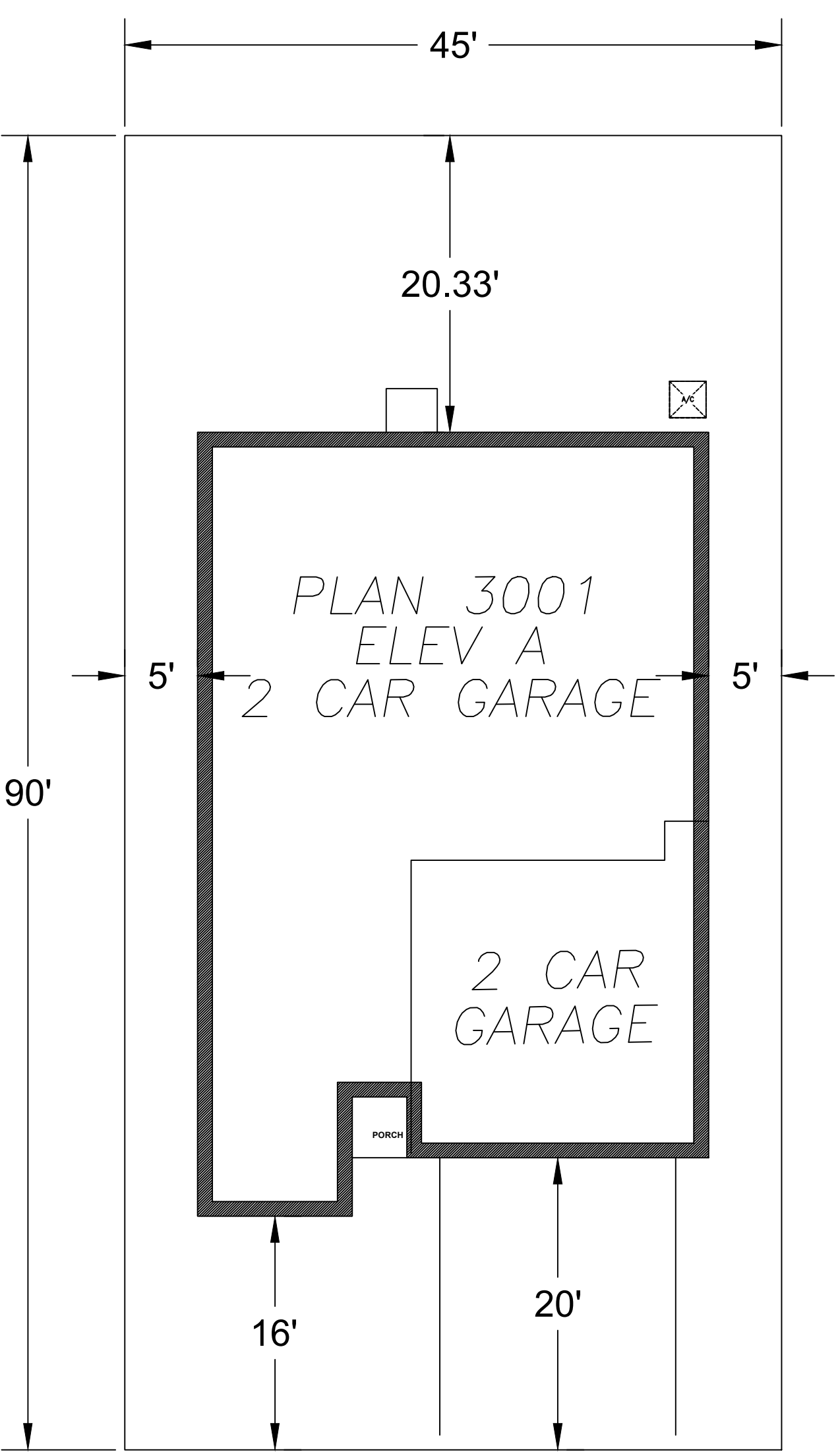
B - STYLE



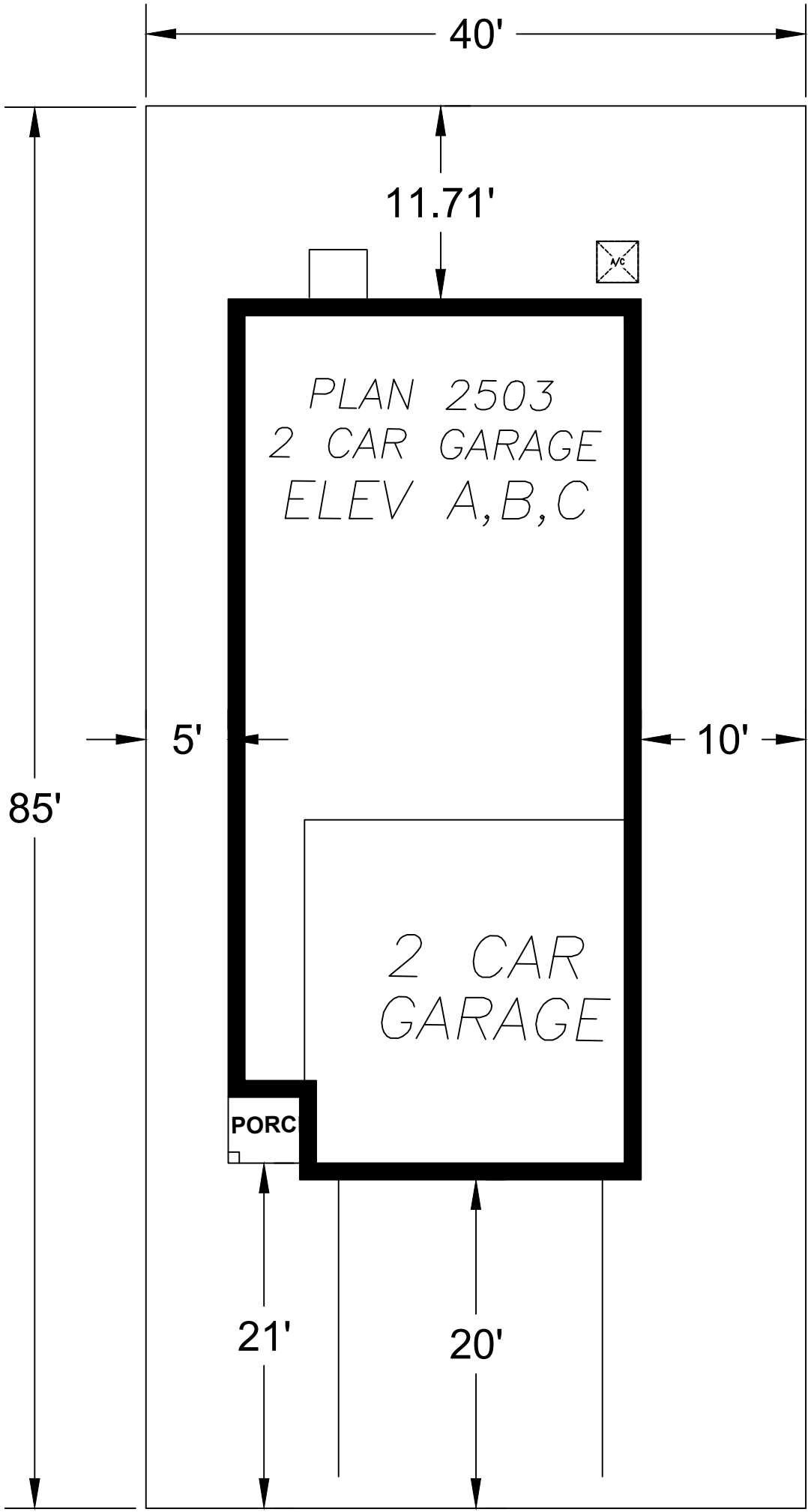
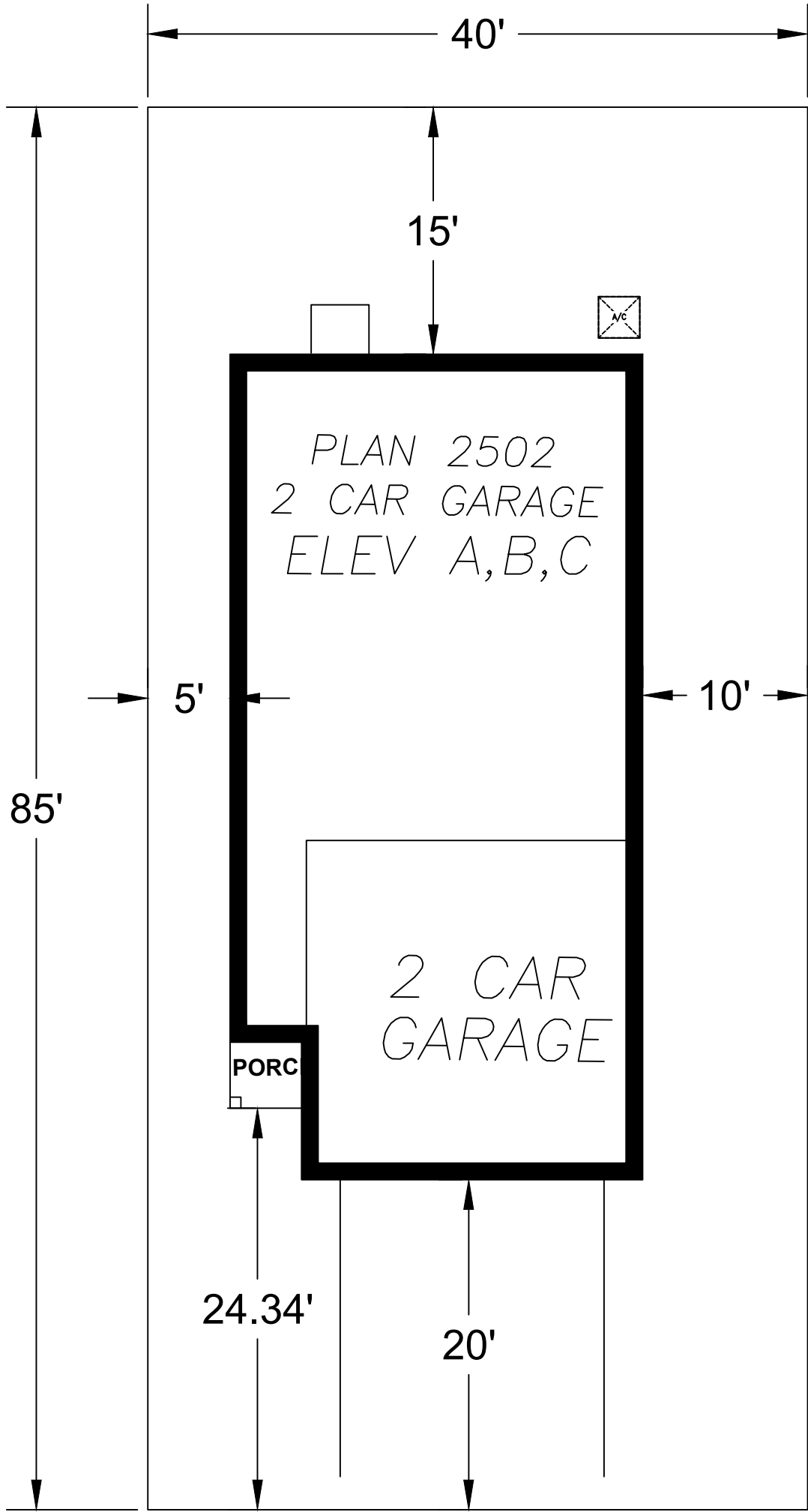
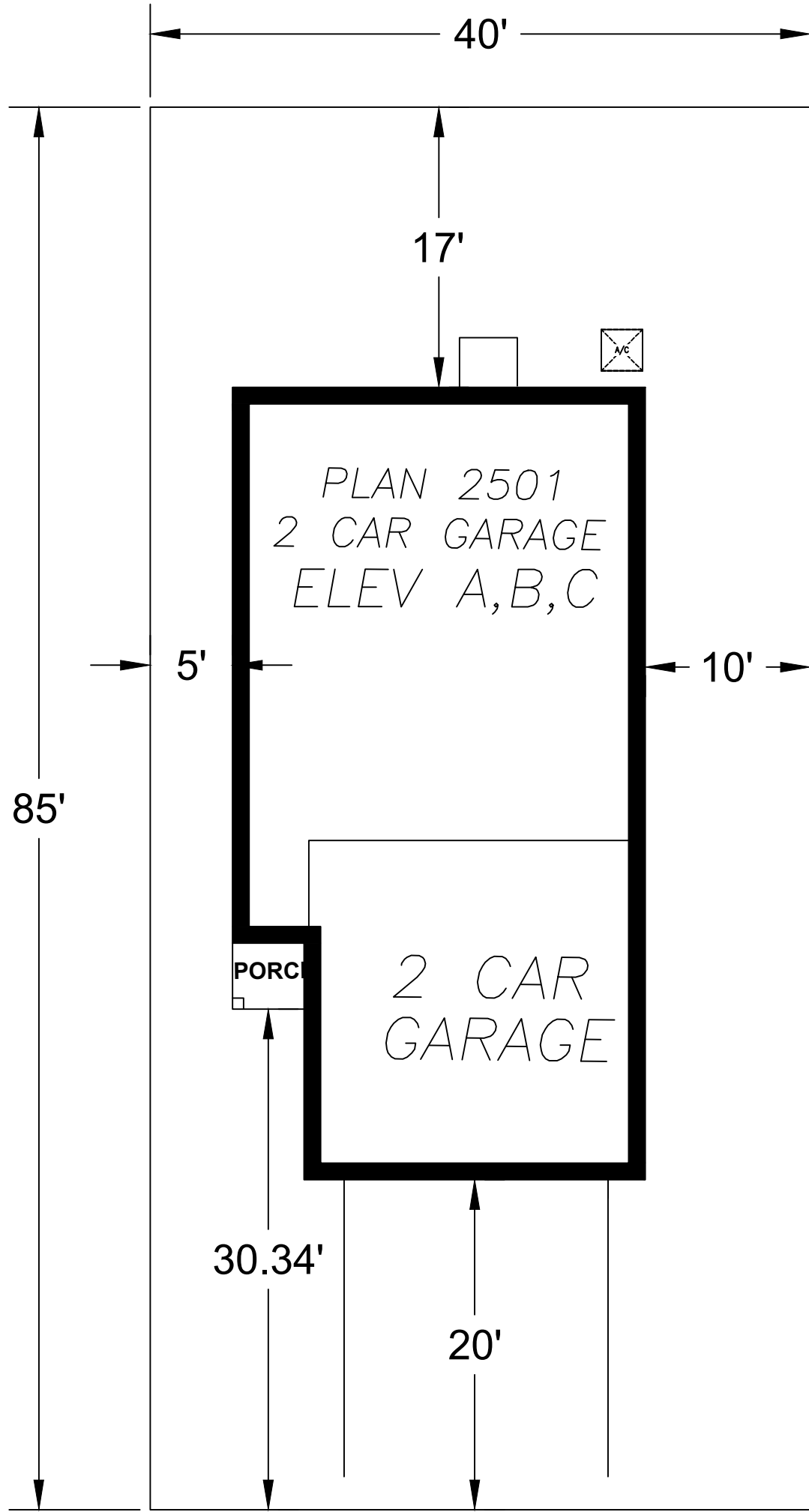
C - STYLE

L034 BROADMOOR (1980)
ROOF PLANS
CENTRAL VALLEY 30'
CALIFORNIA
09/18/24

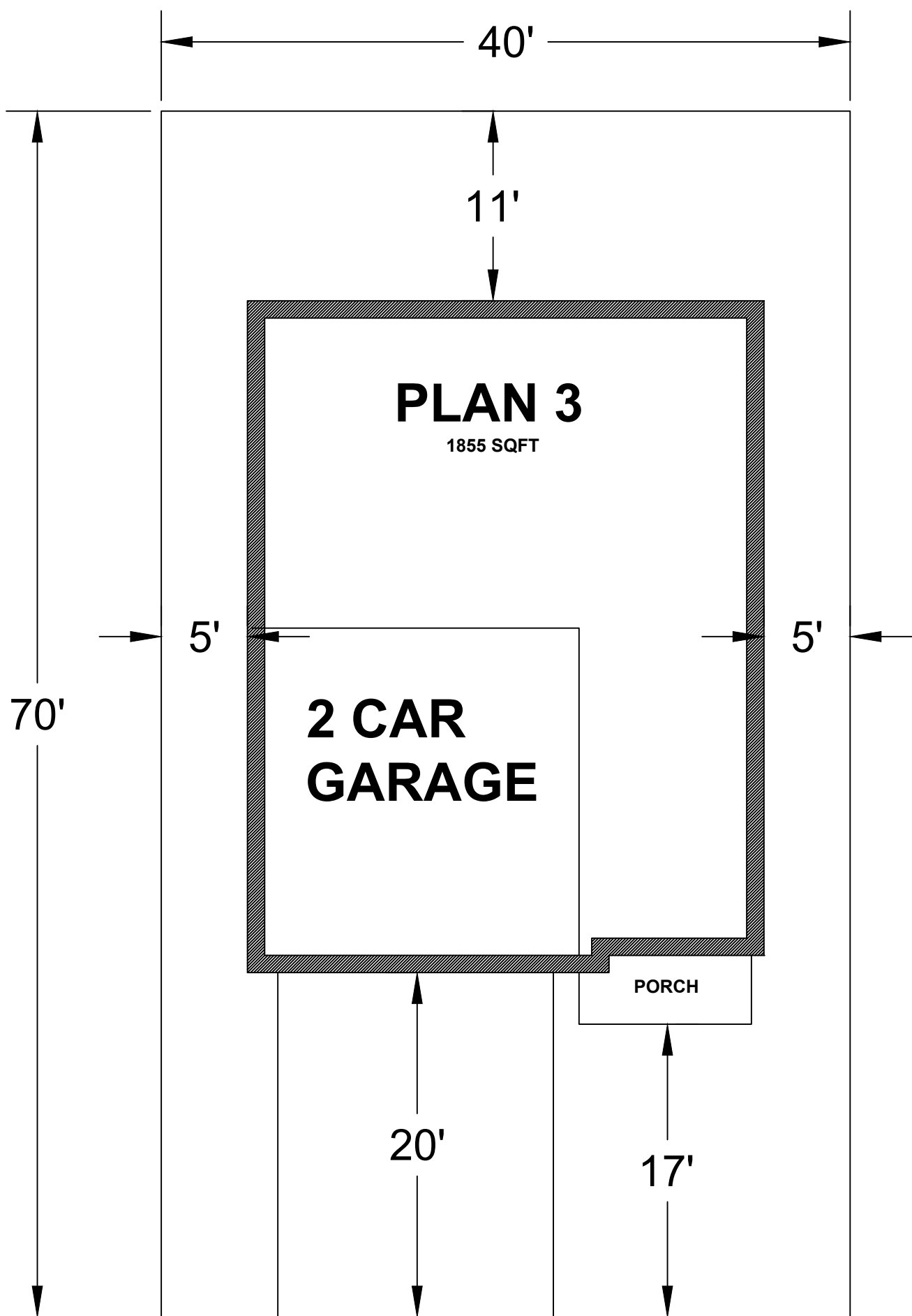
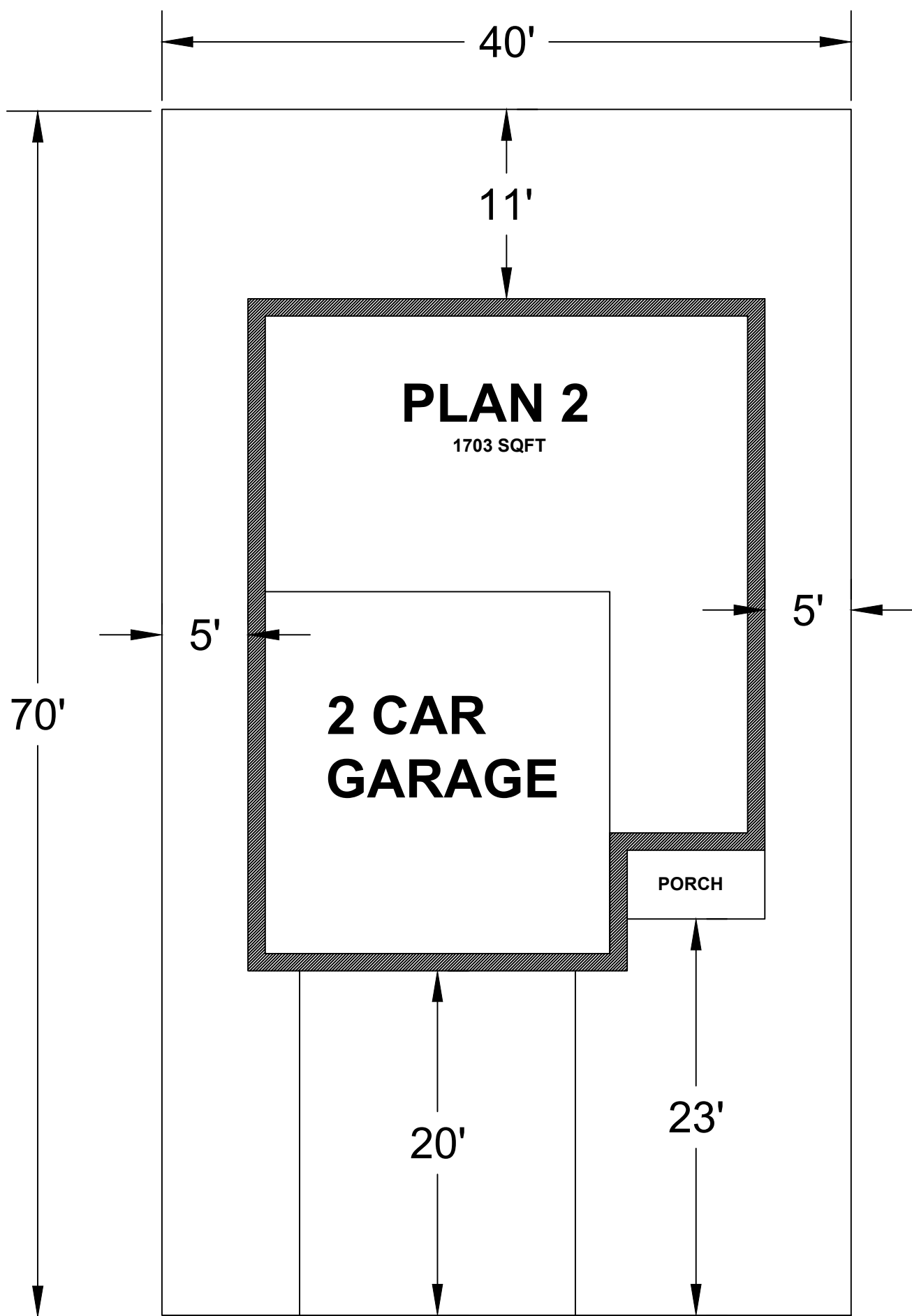
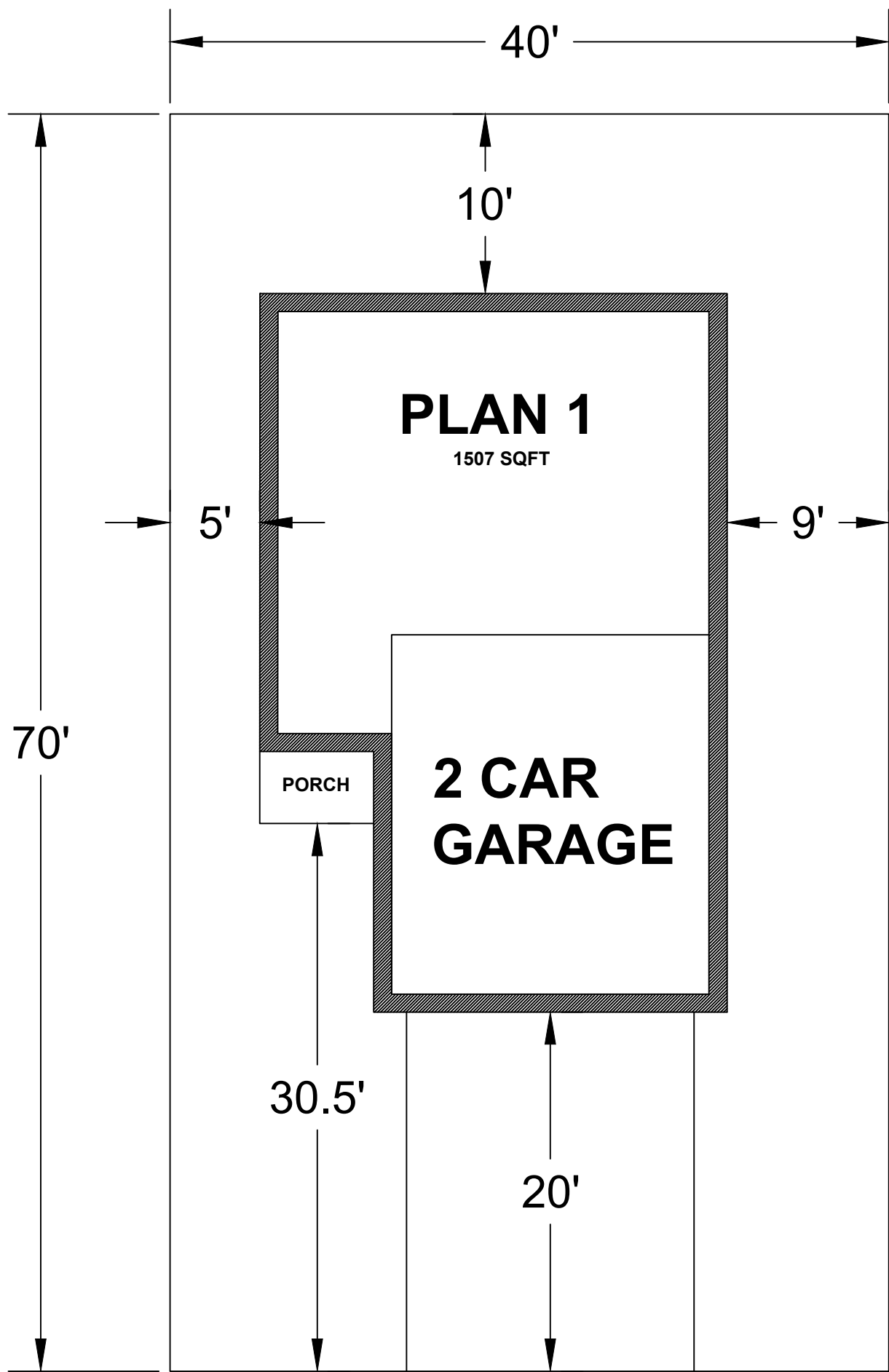
WARMERDAM - TREASURES 45'x90'



WARMERDAM - CELESTIAL (40'X85')



WARMERDAM - CORE 30 (40'X70')



**COPPER RIDGE TENTATIVE SUBDIVISION
INITIAL STUDY/MITIGATED NEGATIVE DECLARATION**



Prepared for:

City of Hanford

317 S Douty

Hanford, CA 93230

Contact: Gabrielle Myers, Senior Planner

TABLE OF CONTENTS

Project Information	1
Environmental Determination	12
Initial Study/Environmental Checklist	
I. Aesthetics	14
II. Agriculture and Forest Resources	16
III. Air Quality	22
IV. Biological Resources	30
V. Cultural Resources	41
VI. Energy	44
VII. Geology and Soils	46
VIII. Greenhouse Gas Emissions	49
IX. Hazards and Hazardous Materials	53
X. Hydrology and Water Quality	57
XI. Land Use and Planning	61
XII. Mineral Resources	64
XIII. Noise	65
XIV. Population and Housing	68
XV. Public Services	70
XVI. Parks and Recreation	73
XVII. Transportation	74
XVIII. Tribal Cultural Resources	77
XIX. Utilities and Service Systems	80
XX. Wildfire	83
Mandatory Finding of Significance	84
List of Preparers	87
Mitigation Monitoring and Reporting Program	88
Supporting Information and Sources	91
<u>Appendices</u>	
Appendix A – Early Consultation Letters	
Appendix B Air Quality Assessment Memo	
Appendix C - Biological Evaluation	
Appendix D - Cultural Resources Assessment	
Appendix E - Phase 1 Assessment	
Appendix F - Water Supply Assessment	
Appendix G - Traffic Study	
Appendix H - VMT Analysis	

PROJECT INFORMATION

This document is the initial study for the potential environmental effects of the Copper Ridge Development Project proposed in the City of Hanford. To consider the Project, the City will need to approve initiating the annexation of the property to the City of Hanford, General Plan Amendment, Pre-zone, Planned Unit Development and Tentative Subdivision Map. The City is the lead agency for the Project pursuant to the California Environmental Quality Act (CEQA) and the CEQA Guidelines.

Project Name

Copper Ridge Tentative Subdivision Map

Lead Agency

City of Hanford
317 N. Douty Street
Hanford, CA 93230

Mailing Address and Phone Number of Contact Person

Gabrielle Myers, Senior Planner
317 N. Douty St.
Hanford, CA 93230
Phone: (559) 585-2578
Email: gmyers@hanford.ca.gov

Project Location

The Project is located in Kings County, south of the City of Fresno and west of the City of Visalia. The Project Site is north of the City of Hanford city limits, along the eastern boundary. The proposed Project Site is located on approximately 83.61 acres north of Grangeville Boulevard, east of 9 ¼ Avenue, south of Leland Avenue, as shown in Figures 1 and 2. APNs 014-143-069 and 014-143-078.

Project Applicant

N & M Capital LLC
1878 N. Mooney Blvd., Suite J
Tulare, CA 93274
(559) 799-6993

Project Description

The proposed Project is a Planned Development and Tentative Subdivision Map on 78.16 acres, which includes 350 single family residential units, 300 multiple family units; and 5.45 acres of Neighborhood Commercial Mixed Use development (Project Site). Although the development of the commercial shopping center is conceptual, it is estimated that it may include two fast food restaurants, two general retail stores, and one gasoline/diesel fueling station with an associated mini mart. For purposes of environmental analysis, the maximum square footage of commercial space will be 37,700.

The proposed Project also includes the annexation, general plan amendment and pre-zone of the 78.16 acre Project Site. At the request of the City and the Kings County Local Agency Formation Commission (LAFCo), approximately 63.73 acres to the north of the Project Site are included in the proposed annexation for a total Annexation Area of 141.89 acres, as shown on Figure 1. No changes to the existing uses are proposed within the additional 63.73 acres included in the annexation and no development is proposed. The purpose of including the additional acreage is to eliminate the creation of a substantially surrounded area in the County and to ensure orderly growth of the City of Hanford. The impacts evaluated in the Initial Study are limited to the Project Site, as no changes are proposed in the Annexation Area.

The development of the Project Site would result in on-site infrastructure improvements, including the addition of streets, curb, gutter, sidewalk and lighting along all four sides of the development and within the subdivision and the development of the commercial area. Construction will include the connection to City water, storm drain and sewer within the development and connection to existing lines in 9-1/4 Avenue, Leland Way and Grangeville Blvd. as well as other utilities such as electric, gas, and communication lines. The development of the Project Site will not import or export fill as a result of the development. A temporary on-site stormwater basin is also included in the development.

The Project Site includes two parcels, comprising 78.16 acres; APNs 014-143-069 and 014-143-078. The additional Annexation Area encompasses 63.73 acres APNs 014-143-022, 014-830-011, 014-830-010, 014-830-013, 014-830-014, 014-830-015, 014-830-016, 014-830-017, 014-830-018.

Project Approvals

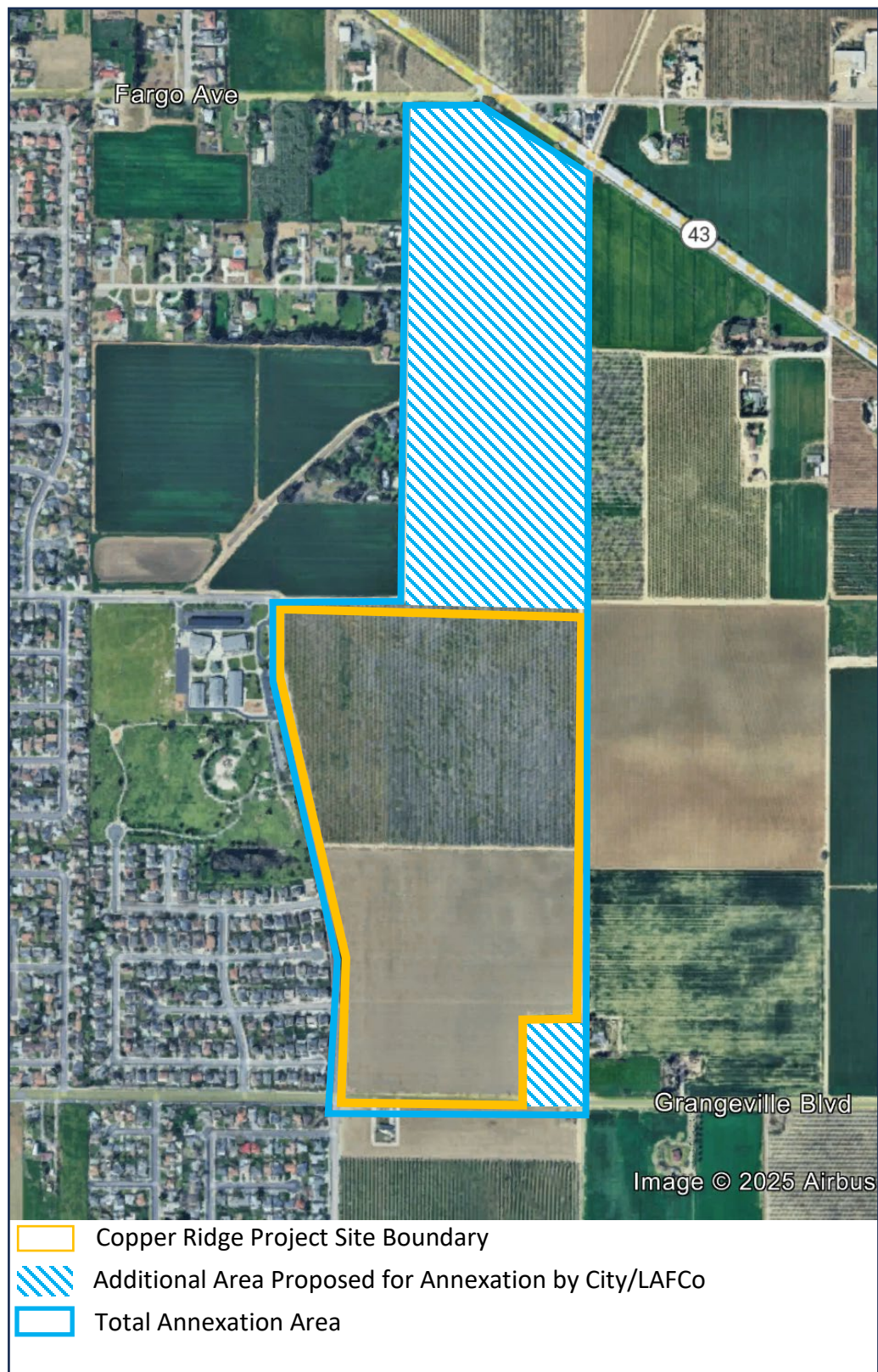
The following permits and approvals required for the development of the proposed Copper Ridge Tentative Subdivision Map are listed below. It should be noted that this list is not exhaustive, and additional permits and approvals may also be required.

- Annexation
- General Plan Amendment from Low Density to Medium Density and Neighborhood Mixed Use
- Pre-zone to RM (Medium Density Residential), RL-5 (Low Density Residential 5,000 sq. ft. minimum) and MX-N (Neighborhood Mixed Use)
- Copper Ridge Tentative Subdivision Map
- Copper Ridge Planned Unit Development (PUD) to allow a mix of densities
- Tentative Parcel Map to allow the phasing of the development
- San Joaquin Valley Air Pollution Control District (SJVAPCD)- Rule 9510 Indirect Source Review (ISR)
- Central Valley Regional Water Quality Control Board, Stormwater Pollution Prevention Plan (SWPPP)

Figure 1 Vicinity Map



Figure 2 Project Boundary and Annexation Area



Project Phasing

The Project will be developed in at least six phases beginning with Phase 1 at the northwest corner of the Project site. Each phase will take approximately six months to construct the infrastructure and estimated to take up to two years to build out. Phases and unit counts are described below:

Phase 1	181 units
Phase 2	150 units
Phase 3	89 units
Phase 4	110 units
Phase 5	120 units
Phase 6	37,700 square feet of Neighborhood Commercial

Parking and access

Vehicular access to the Project will be from two driveways on Grangeville to the south, three local streets to 9-1/4 to the east, two local streets to Leland Way to the north and three local streets and one driveway to 9th Avenue to the east, as shown in Figure 7. Each single-family residence will include a two-car garage. The multi-family and commercial development will provide parking in accordance with the Hanford Municipal Code based on the final development square footage and uses.

Project Description: Surrounding Land Use Designations and Settings:

North: County/Existing Agricultural

South: County/ Existing Agricultural

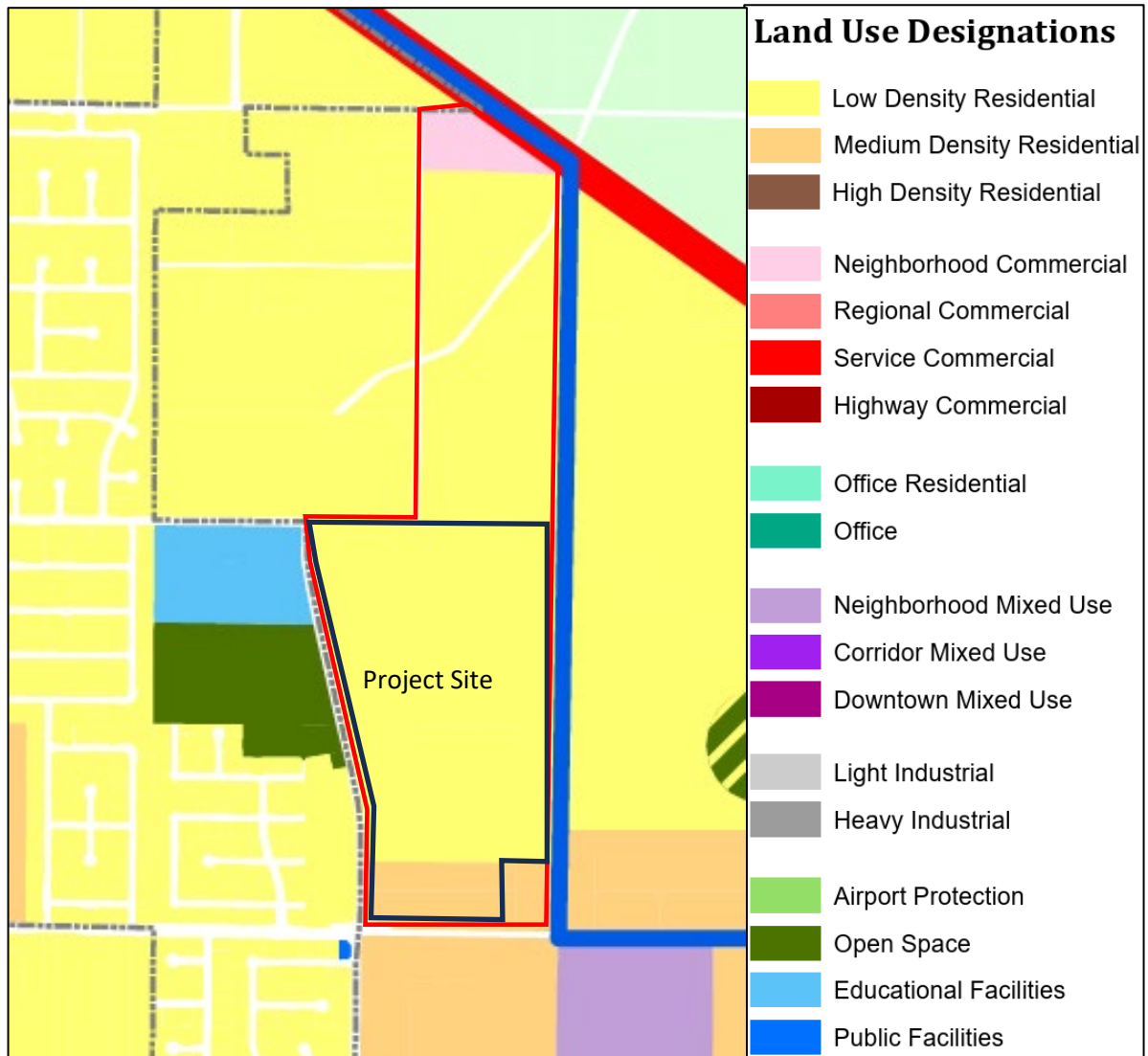
East: County/Existing Agricultural

West: Low Density Residential, Open Space, Public facility/ Existing Residential, Agriculture and public school.

General Plan Designation

The annexation area, shown in red, is designated as Low Density Residential, Medium Density Residential and Neighborhood Commercial in the Hanford General Plan as shown in Figure 3 below. The applicant is requesting a general plan amendment to change the land use from Low Density Residential to Medium Density Residential and Neighborhood Mixed Use within the Project Area.

Figure 3 General Plan Map



Zoning Designation

The site is currently in the County zoned agriculture shown as green in Figure 4 below. The project area is anticipated to be pre-zoned R_L-5, Low Density Residential, R-M Medium Density Residential, and MX-N Neighborhood Mixed Use Commercial as part of the proposed Project, as shown in Figure 5.

Figure 4 Zone Map

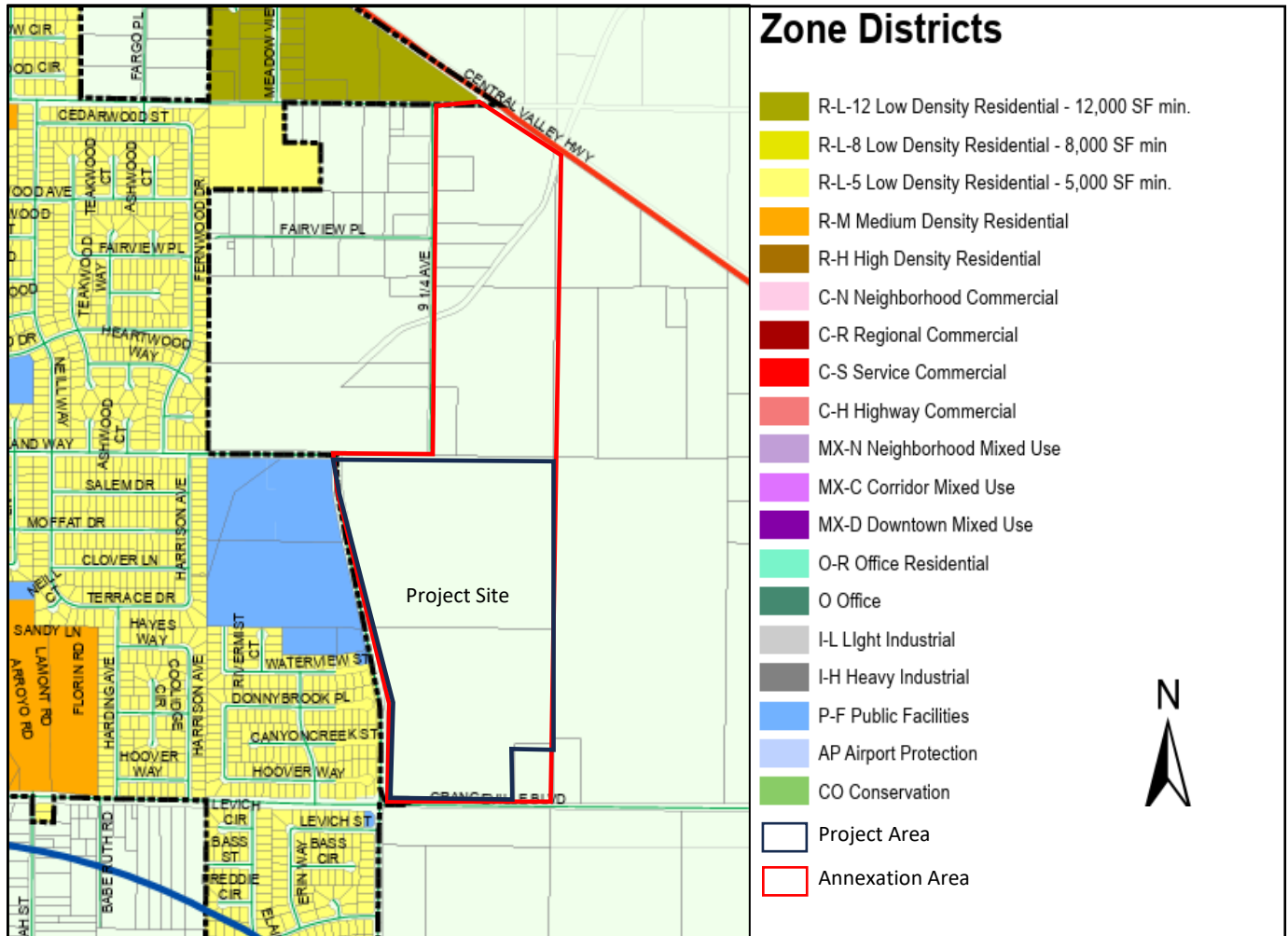
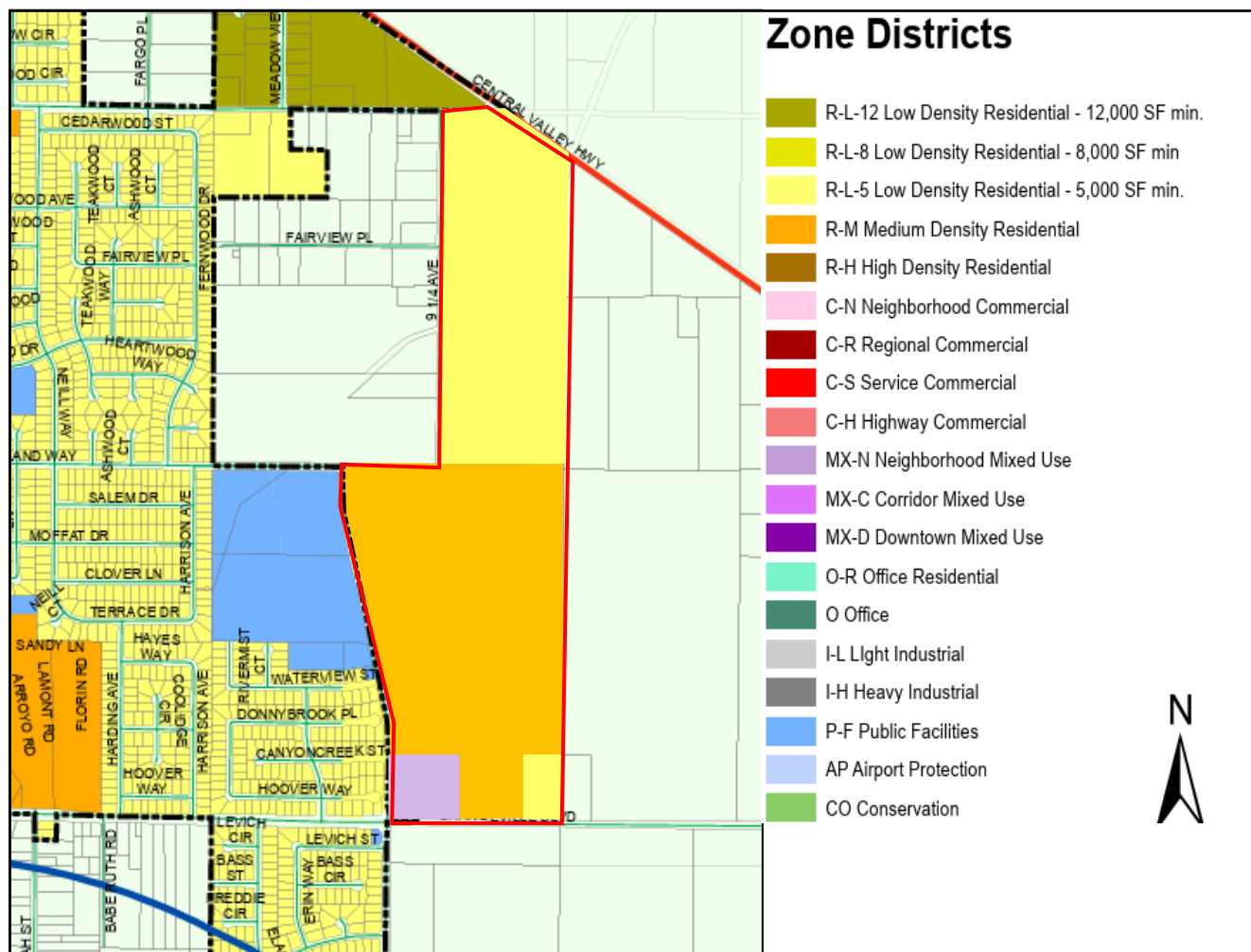


Figure 5 Proposed Zones



Native American Consultation

The City of Hanford has received a request for notification from the Santa Rosa Rancheria Tachi Yokut Tribe in accordance with AB 52. Because the Project includes a general plan amendment, a notice in accordance with SB 18 was also required. A list of Native American Tribes was obtained from the Native American Heritage Commission (NAHC) and notices of the proposed project were sent to the following tribes on December 4, 2024. No responses were received.

- Kitanemuk & Yowlumne Tejon Indians
- Santa Rosa Rancheria Tachi Yokut Tribe
- Table Mountain Rancheria
- Tule River Indian Tribe
- Wuksachi Indian Tribe/Eshom Valley Band

Early Consultation

On December 23, 2024, the City of Hanford submitted a pre-consultation request to the Office of Planning and Research (OPR). In response, the California Department of Conservation (DOC) and Department of Toxic Substances Control (DTSC) submitted written comments, which can be found in Appendix A. A summary of the comments is found in each pertinent discussion in the environmental checklist; Agricultural Resources and Hazards and Hazardous Materials respectively.

Figure 6 Project Location Aerial View



GRANGEVILLE BLVD N.T.S.

9TH AVENUE N.T.S.

9 1/4 AVENUE N.T.S.

LOCAL STREETS N.T.S.

LELAND WAY N.T.S.

LELAND WAY

9TH AVENUE

9 1/4 AVENUE

GRANGEVILLE BLVD

TENTATIVE SUBDIVISION MAP

COPPER RIDGE

HANFORD CALIFORNIA

TYP. ONE STORY DUPLEX SITE
(LOTS 351-387)

TYP. TWO STORY 8-PLEX SITE

OWNER
HARDENFAM FAMILY TRUST; DADIGIAN FAMILY TRUST

DEVELOPER
N & M CAPITAL LLC
GREG NALLEY 5947941-6443
1819 N MOONEY BLVD SUITE J
TULARE, CA 93214

PROJECT INFO
NORTH EAST CORNER OF 9 1/4 AVENUE AND GRANGEVILLE BLVD
APN: 014-143-064, 014-143-078
TOTAL AREA: 85.61 AC
EXIST'G USE: VACANT AG
PROPOSED USE: SINGLE FAMILY PUD, NEIGHBORHOOD COMMERCIAL
SEWER: CITY OF HANFORD
WATER: CITY OF HANFORD
STORM DRAIN: CITY OF HANFORD
MIN LOT SIZE: 2,800 SF, MAX LOT SIZE: 11,540 SF
SINGLE FAMILY UNITS: 350
MULTI-FAMILY UNITS: 300
RESIDENTIAL ACREAGE: 19.16 AC
COMMERCIAL ACREAGE: 3.49 AC
OUTLOTS A-J TO BE DESIGNATED TO CITY OF HANFORD

VICINITY MAP
NOT TO SCALE

PHASES INFO

PHASE	UNITS	40' WIDE LOTS	45' WIDE LOTS	MULTI-FAMILY UNITS	RETAIL
PHASE 1	16 UNITS	40' WIDE LOTS: 15	45' WIDE LOTS: 66	MULTI-FAMILY UNITS: 0	RETAIL: 0 SF
PHASE 2	80 UNITS	40' WIDE LOTS: 41	45' WIDE LOTS: 54	MULTI-FAMILY UNITS: 0	RETAIL: 0 SF
PHASE 3	84 UNITS	40' WIDE LOTS: 11	45' WIDE LOTS: 0	MULTI-FAMILY UNITS: 14	RETAIL: 0 SF
PHASE 4	110 UNITS	40' WIDE LOTS: 0	45' WIDE LOTS: 0	MULTI-FAMILY UNITS: 106	RETAIL: 0 SF
PHASE 5	120 UNITS	40' WIDE LOTS: 0	45' WIDE LOTS: 0	MULTI-FAMILY UNITS: 120	RETAIL: 81,700 SF
TOTAL	650 UNITS	40' WIDE LOTS: 225	45' WIDE LOTS: 125	MULTI-FAMILY UNITS: 500	RETAIL: 81,700 SF

PARKING INFO

LAND USE	REQUIRED	PROVIDED
LAND USE	7	35
CONV. GAS	1	25
FOOD A	15	16
FOOD B	15	61
RETAIL A	48	60
RETAIL B	48	48
PHASE 4 MULTIFAM COVERED	0	212
PHASE 4 MULTIFAM UNCOVERED	0	22
PHASE 5 MULTIFAM COVERED	89	41
PHASE 5 MULTIFAM UNCOVERED	89	40

TENTATIVE SUBDIVISION MAP

COPPER RIDGE

HANTON CALIFORNIA

AWEngineering

810 WEST ACESIA AVENUE
VISTA, CA 92082
www.awengineering.com

TENTATIVE SUBDIVISION MAP

COPPER RIDGE

HANTON CALIFORNIA

AWEngineering

810 WEST ACESIA AVENUE
VISTA, CA 92082
www.awengineering.com

TENTATIVE SUBDIVISION MAP

COPPER RIDGE

HANTON CALIFORNIA

AWEngineering

810 WEST ACESIA AVENUE
VISTA, CA 92082
www.awengineering.com

ENVIRONMENTAL DETERMINATION

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- | | | |
|---|---|--|
| ☐ Aesthetics | ☐ Greenhouse Gas Emissions | ☐ Public Services |
| ☐ Agriculture and Forest Resources | ☐ Hazards and Hazardous Materials | ☐ Recreation |
| ☐ Air Quality | ☐ Hydrology and Water Quality | ☐ Transportation |
| ☐ Biological Resources | ☐ Land Use and Planning | ☐ Tribal Cultural Resources |
| ☐ Cultural Resources | ☐ Mineral Resources | ☐ Utilities and Service Systems |
| ☐ Energy | ☐ Noise | ☐ Wildfire |
| ☐ Population | ☐ Mandatory Findings of Significance | |

DETERMINATION: (To be completed by the Lead Agency) Where potential impacts are anticipated to be significant, mitigation measures will be required, so that impacts may be avoided or reduced to insignificant levels.

On the basis of this initial evaluation:

- ☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION WILL BE PREPARED.
- ☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- ☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT (EIR) is required.
- ☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. A Negative Declaration is required, but it must analyze only the effects that remain to be addressed.
- ☐ I find that although the proposed project could have a significant effect on the environment because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is requested.

City of Hanford

Date

EVALUATION OF ENVIRONMENTAL IMPACTS

1. A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors, as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.
4. “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level.
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analyses Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are “Less than Significant with Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project’s environmental effects in whatever format is selected.
9. The explanation of each issue should identify:
 - a) the significance criteria or threshold, if any, used to evaluate each question; and the mitigation measure identified, if any, to reduce the impact to less than significance

INITIAL STUDY/ENVIRONMENTAL CHECKLIST

The following section provides an evaluation of the impact categories and questions contained in the checklist and identify mitigation measures, if applicable.

I. AESTHETICS

Except as provided in Public Resource Code Section 210999, would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within state scenic highway?	☐	☐	☐	☒
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

Environmental Setting

The Project Site includes approximately 78.16 acres. The northern approximately one-half of the Project Site is currently in agricultural production with the remaining, approximately 35 acres currently fallow agricultural land. To the west of the Project is an existing residential development, an elementary school and public park. To the south and east of the Project area is agricultural land, to the north is rural residential, agricultural and State Route 43.

Discussion

a) Would the project have a substantial adverse effect on a scenic vista?

A scenic vista is defined as a viewpoint that provides expansive views of highly valued landscape for the benefit of the general public. According to the 2035 General Plan Background Report, there are no scenic lands identified as a resource by the City, County or routes by the California Office of Transportation. here are no buildings or natural features located on the Project Site. The project would not substantially alter scenic views and would not block or impede surrounding views as the development will comply with City of Hanford development standards pertaining to height of buildings. Therefore the project would not result in substantial adverse effect on a scenic vista and

impacts would be considered *less than significant*.

Mitigation Measures: None Required

- b) Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within state scenic highway?**

According to the 2035 General Plan Background Report, there are no Officially Designated State Scenic Highways within the City of Hanford Planning Area. The closest is State Route 198, east of State Route 99. The City Municipal Code Chapter 12.12 Street Trees and Shrubs, contains provisions to protect heritage trees. Section 12.12.020 defines a heritage tree as “(1) any Oak Tree native to Central California, Valley Oak Tree (*Quercus lobata*), with a diameter greater than 10 inches; or (2) any tree or a group of trees specifically designated by the city council for protection because of its historical significance, special character or community benefit.” The Project Site does not contain any Valley Oak Trees or trees that have been designated as protected by the City Council. There are no other resources such as rock outcroppings or historic buildings in the area, therefore there is *no impact*.

Mitigation Measures: None Required

- c) In non-urbanized areas, would the project substantially degrade the existing visual character or quality of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?**

The proposed Project is not currently developed and is adjacent to non-urbanized area to the north, south and east. The proposed Project would not degrade the visual character or quality of the site and surroundings but will result in a change from the agricultural character. The Project includes a general plan amendment and pre-zone to allow the small lot development with a planned unit development and multi-family units. As amended the Project would be consistent with zoning and other regulations, therefore the impact is *less than significant*.

Mitigation Measures: None Required

- d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?**

The proposed Project would result in new lighting sources on the Project Site. New lighting sources would include interior and exterior lighting from residences and street lighting as well as parking lot and interior and exterior lighting from the multi-family and commercial areas. All street lighting will be consistent with the City’s lighting standards, which are developed to minimize impacts related to excessive light and glare. The City standards reduce light and glare impacts by including watt maximums, shielding and location criteria based on public safety. Although the Project will introduce new light sources to the area, all lighting will be consistent with nearby residential and commercial land uses and the City’s lighting standards. Therefore, impacts are considered *less than significant*.

Mitigation Measures: None Required

II. AGRICULTURE AND FOREST RESOURCES:

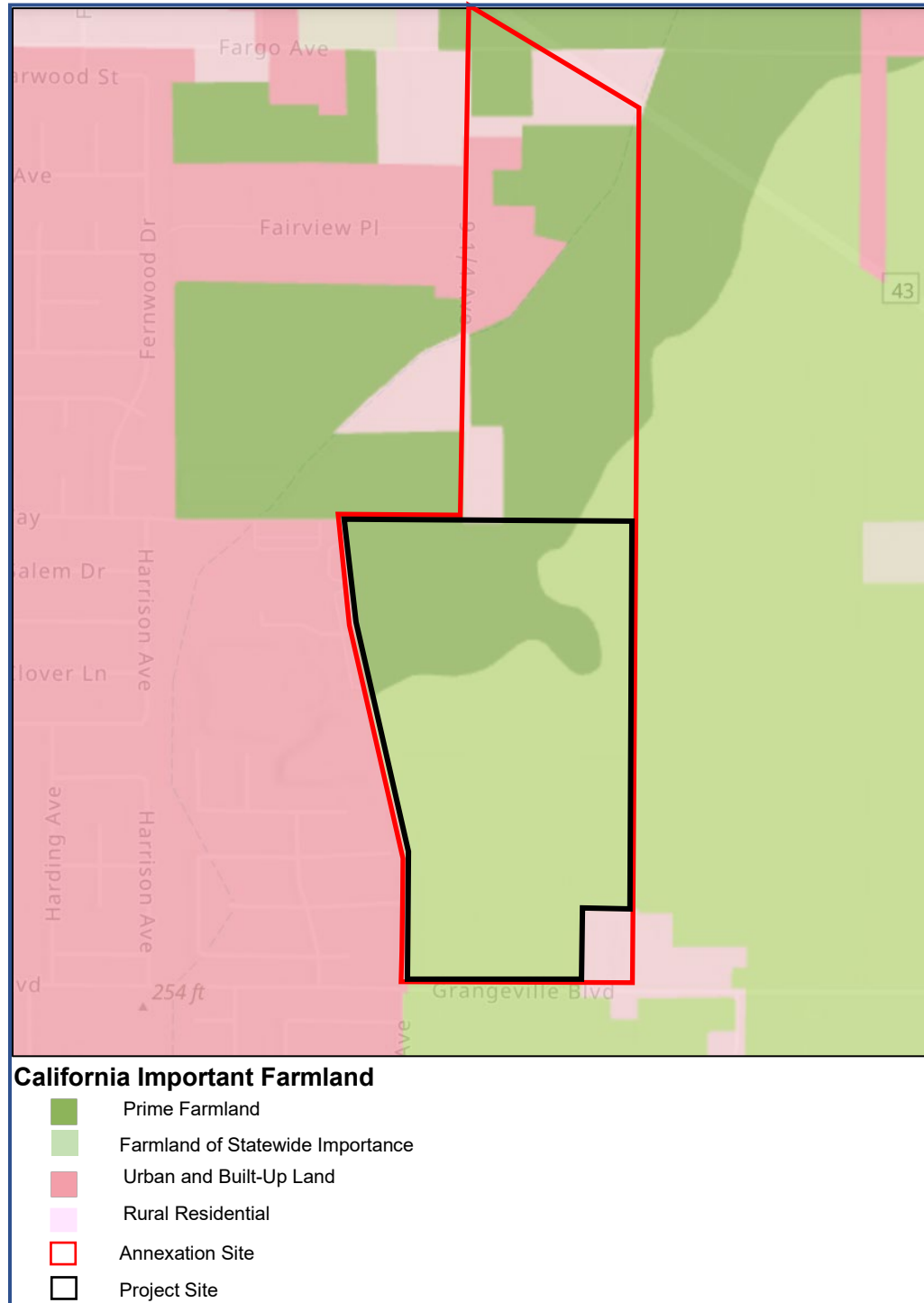
In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in the Forest Protocols adopted by the California Air Resources Board. Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☒	☐
b) Conflict with existing zoning for agricultural use, or a Williamson Act Contract?	☐	☐	☒	☐
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g)?	☐	☐	☐	☒
d) Result in the loss of forestland or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forestland to non-forest use?	☐	☐	☒	☐

Environmental Setting

The proposed Project Site is currently planted with a nut crop on approximately one-half the northern portion of

the site and fallow on the southern portion. . According to the Department of Conservation, the Project Site contains approximately 23 acres of Prime Farmland and approximately 55 acres of Farmland of Statewide Importance, as shown in Figure 8.

Figure 8 Important Farmland Map



Source: Department of Conservation; [DLRP Important Farmland Finder](#)

Discussion

- a) **Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?**

The Project Site is located on land that will be annexed into the City of Hanford with Project approval. The proposed development of the Project Site will convert approximately 78.16 acres of Prime Farmland and Farmland of Statewide Importance. The north portion of the Annexation Area is not anticipated to change in use as a result of the Project as no development is proposed.

The Project Site and the Annexation Area are planned for urban development in the Hanford 2035 General Plan. The 2035 General Plan EIR (State Clearinghouse No. 2015041024) evaluated the impacts of agricultural land conversion and determined that approximately 2,706 acres of Prime, Farmland of Statewide Importance and Unique Farmland would be converted with full build out of the General Plan during the 2014-2035 planning period. The 2035 General Plan EIR analysis included the Project Site and the full Annexation Area.

The General Plan includes goals and policies that recognize the importance of farmland to the City, County and State. The General Plan policies were developed to prevent premature conversion of agricultural land and to preserve agricultural land through means other than mitigation. Those policies include the requirement for buffers, the establishment of several planning areas that promote increased densities to increase capacity within the 2035 Growth Boundary, a right to farm ordinance, and the creation of a farmland mitigation program. The establishment of the 2035 Growth Boundary itself is a limiting factor to growth and premature conversion of agricultural lands. The Goals and Policies area as follows:

Agricultural Resources Goal

Goal 01: Conservation and long term protection of agricultural resources and soils located outside of the Planned Area Boundary.

5.2.1 Agricultural Land Protection

Policy 01 Boundary between Urban and Agricultural Uses

Utilize the Planned Area Boundary as the long term boundary line between urban uses and agricultural uses and prohibit non-agricultural development outside the Planned Area Boundary.

Policy 02 Agricultural Buffer

Coordinate land use policies and designations with Kings County to provide for a buffer between the urban area of Hanford and the surrounding unincorporated communities.

Policy 03 Kings County Preservation Efforts

Support the Kings County efforts to preserve and protect farmlands outside the Planned Area Boundary.

Policy 04 Interim Agricultural Use

Retain existing agricultural areas as an interim use inside the Planned Area Boundary and support agricultural operations until such time that the areas are needed for logical urban expansion

Policy 05 Farmland Mitigation Program

In collaboration with the County of Kings and other cities in Kings County, determine the feasibility and, if feasible, consider adoption of a countywide farmland mitigation program that is tailored to the needs and goals of the Kings County agricultural region to mitigate the urban conversion of agricultural lands that are outside adopted urban growth boundaries.

Policy E26 Protection of Agricultural Lands from Urban Encroachment

Utilize the Planned Area Boundary to delineate a long term boundary between agricultural and urban land uses, and strongly support long term agricultural operations outside the Planned Area Boundary that can be free from the threat of urban land use encroachment.

3.14 New Growth Planning Areas

Four new growth areas have been established in areas that are predominantly undeveloped and currently used for agriculture. This section provides policies and actions to ensure balanced growth in these areas with adequate public facilities and services, and strategies for quality design.

This goal and its supporting policies encourage development within Hanford's Planning Areas. Development within Hanford's Planning Areas will decrease dependency on the automobile and allow more people to walk, bike, or take transit for daily trips. Hanford's Planning Areas are intended to accommodate and encourage new growth within compact, walkable neighborhoods that are located near schools, parks, shopping, and transit facilities.

3.14.1 Eastside Planning Area

The Eastside Planning Area is primarily located east of 9 ¼ Avenue, north of the Union Pacific Railroad, and west and south of State Route 43. Grangeville Boulevard is a major arterial that is an eastern gateway to Hanford from State Route 43. Much of the land is currently being farmed and portions of the Planning Area is subject to Williamson Act contract.

Policy L154 Eastside Growth Limitation

Approve new development project in the Eastside Planning Area only within the 2035 Development Boundary until such time as the boundary is expanded in accordance with General Plan policies.

Policy L155 Eastside Higher Density Residential Uses

Support the development of higher density residential uses in close proximity to the Grangeville Boulevard corridor and the gradual transition to lower density, single-family residential uses as distance from the Arterial road increases.

Policy L156 Eastside Development along Grangeville Boulevard

Discourage "strip" development along Grangeville Boulevard from an overall community development perspective. Develop design policies and regulations that identify a minimum percentage of street-facing building facades and minimize the exposure of parking and masonry walls along the street.

The Project is located within the Eastside Planning Area. The development of the Project Site is in conformance with the Eastside Planning area policies by providing increased residential density. The Project includes a request to increase general plan density from low density to medium density and transitions from higher densities close to Grangeville Boulevard to lower densities to the north.

In accordance with the General Plan, the Project would be required to adhere to the Hanford Municipal Code 16.40.110 Right to Farm Ordinance and proposed goals and policies of the general plan related to agriculture.

In the 2035 General Plan Update EIR (SCH No. 2015041024), it was determined that the loss of farmland was a significant and avoidable impact. A Statement of Overriding Considerations was adopted for the significant and avoidable impacts resulting from the conversion of agricultural land. With the implementation of the General Plan policies, the right to farm ordinance and the planned conversion of agricultural lands evaluated in the General Plan EIR, no new impacts resulting from the conversion of agricultural land are anticipated to occur, therefore impacts are considered to be *less than significant*.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act Contract?

The Project would result in the conversion of approximately 46.62 acres of farmland currently under Williamson Act Contract into a residential subdivision. Williamson Act Contract 552-86 was formed in 1986. Also in 1986, the City of Hanford protested the formation of the contract based on the property being within one mile of the City limits. The Kings LAFCo approved Resolution 8614 recognizing the City's protest in 1986. Pursuant to State law, the City would exercise its right to not succeed to the Williamson Act Contract, terminating the contract in the event the annexation associated with the Project is completed. A certificate of cancellation will be recorded with the Kings County Records Office.

In addition, as stated in (a) above, the City of Hanford anticipated the conversion of the subject property to urban use in the General Plan Update and EIR for which a Statement of Overriding Considerations was adopted. The proposed Project falls within the analysis provided with the General Plan EIR and the City's protest of the formation of the contract anticipated that the area would be subject to development, therefore no mitigation would be necessary as a result of the conflict with an existing Williamson Act contract; as such impacts are considered to be *less than significant*.

Mitigation Measures: None Required

c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

The Project Site is not zoned for forest or timberland production and is not adjacent to any forest land, therefore, there is *no impact*.

Mitigation Measures: None Required

d) Would the project result in the loss of forestland or conversion of forest land to non-forest use?

The site does not contain forestland and is not adjacent or in proximity to any forestland or use, therefore there is *no impact*.

Mitigation Measures: None Required

e) Would the project involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forestland to non-forest use?

The City of Hanford and the Kings LAFCo required the inclusion of the area north of the Project Site in the annexation. Although no changes are proposed to this area as a result of the Project, it could result in the additional conversion of farmland, specifically approximately 44.24 acres of Prime Farmland and Farmland of Statewide Importance. The additional acres are designated for urban development and agricultural conversion impacts in the City of Hanford Planning Area were assessed in the General Plan EIR for the planning period of 2014-2035. Impacts were considered to be significant and unavoidable and a statement of overriding considerations was adopted. Conversion of the area from farmland will also be subject to CEQA if developed to ensure compliance with the General Plan policies and Municipal Code. The Project would not result in conversion of forestland to non-forest use, therefore impacts would be considered *less than significant*.

III. AIR QUALITY

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

Environmental Setting

This section describes existing air quality within the San Joaquin Valley Air Basin (SJVAB) and in Kings County. The SJVAB is comprised of eight counties: Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare. The air basin is bordered by the Sierra Nevada Mountains to the east, Coastal Range to the west and the Tehachapi Mountains to the south. These topographical features directly relate to air quality within the SJVAB. Air quality is described in relation to air quality standards for criteria pollutants such as, ozone, carbon monoxide, and particulate matter. Air quality can be directly affected by the type and density of land use change and population growth.

According to the Hanford Air Quality Element regional and local air quality is impacted by topography, dominant airflows, atmospheric inversions, location, and season. The combination of topography and inversion layers generally prevents dispersion of air pollutants.

The Project Site is located within the SJVAB, which is managed by the San Joaquin Valley Air Pollution Control District (SJVAPCD). National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) have been established for the following criteria pollutants: carbon monoxide (CO), Ozone (O₃), sulfur dioxide (SO₂), nitrogen dioxide (NO₂), particulate matter (PM₁₀ and PM_{2.5}) and lead (Pb). Air quality plans or attainment plans are used to bring an air basin into attainment with State and Federal ambient air quality standards. Table 3-1 describes the areas classified as either in attainment or non-attainment for several pollutant standards.

Table 3-1 San Joaquin Valley Attainment Status

Pollutant	Designation/Classification	
	Federal Standards	State Standards
Ozone – One hour	No Federal Standard	Nonattainment/Severe
Ozone – Eight hour	Nonattainment/Extreme	Nonattainment
PM 10	Attainment	Nonattainment
PM 2.5	Nonattainment	Nonattainment
Carbon Monoxide	Attainment/Unclassified	Attainment/Unclassified
Nitrogen Dioxide	Attainment/Unclassified	Attainment
Sulfur Dioxide	Attainment/Unclassified	Attainment
Lead (Particulate)	No Designation/Classification	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified
Sulfates	No Federal Standard	Attainment
Visibility Reducing Particles	No Federal Standard	Unclassified
Vinyl Chloride	No Federal Standard	Attainment

Source: SJVAPCD

Regulations

Federal Clean Air Act – The 1977 Federal Clean Air Act (CAA) authorized the establishment of the National Ambient Air Quality Standards (NAAQS) and set deadlines for their attainment. The Clean Air Act identifies specific emission reduction goals, requires both a demonstration of reasonable further progress and an attainment demonstration, and incorporates more stringent sanctions for failure to meet interim milestones. The U.S. EPA is the federal agency charged with administering the Act and other air quality - related legislation. EPA’s principal functions include setting NAAQS; establishing minimum national emission limits for major sources of pollution; and promulgating regulations.

California Clean Air Act – California Air Resources Board coordinates and oversees both state and federal air pollution control programs in California. As part of this responsibility, California Air Resources Board monitors existing air quality, establishes California Ambient Air Quality Standards, and limits allowable emissions from vehicular sources. Regulatory authority within established air basins is provided by air pollution control and management districts. The Project is located within the jurisdiction of the San Joaquin Valley Air Pollution Control District (SJVAPCD).

The state and federal standards for the criteria pollutants are presented in Section 8.4 of The San Joaquin Valley Unified Air Pollution Control District’s 2015 “Guidance for Assessing and Mitigating Air Quality Impacts”. These standards are designed to protect public health and welfare. The “primary” standards have been established to protect the public health. The “secondary” standards are intended to protect the nation’s welfare and account for air pollutant effects on soils, water, visibility, materials, vegetation and other aspects of general welfare.

San Joaquin Valley Air Pollution Control District (SJVAPCD) – The SJVAPCD is responsible for enforcing air quality standards in the Project area. To meet state and federal air quality objectives, the SJVAPCD adopted the following thresholds of significance for projects and ambient air quality standards, Tables 3-2 and 3-3.:

Table 3-2 SJVAPCD Thresholds of Significance

Pollutant/Precursor	Construction Emissions	Operational Emissions	
		Permitted Equipment and Activities	Non-Permitted Equipment and Activities
	Emissions (tpy)	Emissions (tpy)	Emissions (tpy)
CO	100	100	100
Nox	10	10	10
ROG	10	10	10
SOx	27	27	27
PM10	15	15	15
PM2.5	15	15	15

Source: SJVAPCD Guidance for Assessing and Mitigation Air Quality Impacts

Table 3-3 California Ambient Air Quality Standards

Pollutant	Averaging Time	Concentration
Ozone	8 Hour	0.070 ppm (137 µg/m ³)
	1 Hour	0.09 ppm (180 µg/m ³)
Carbon Monoxide	8 Hour	9 ppm (10 mg/m ³)
	1 Hour	20 ppm (23 mg/m ³)
Nitrogen Dioxide	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)
	1 Hour	0.18 ppm (339 µg/m ³)
Sulfur Dioxide		
	24 Hour	0.04 ppm (105 µg/m ³)
	1 Hour	0.25 ppm (655 µg/m ³)
PM 10	Annual Arithmetic Mean	20 µg/m ³

	24 Hour	50 µg/m ³
PM 2.5	Annual Arithmetic Mean	12 µg/m ³
	24 Hour	none
Sulfates	24 Hour	25 µg/m ³
Lead		
	30 Day Average	1.5 µg/m ³
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m ³)
Vinyl Chloride (chloroethene)	24 Hour	0.010 ppm (26 µg/m ³)
Visibility Reducing particles	8 Hour	(see below ^b)

ppm=parts per million

mg/m³=milligrams per cubic meter

µg/m³=micrograms per cubic meter

^aSee <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>

^bIn 1989, CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Source: SJVAPCD "Ambient Air Quality Standards & Attainment Status" website

The following SJVAPCD rules and regulations may apply to the proposed Project; however, this is not an exhaustive list:

- **Rule 3135:** Dust Control Plan Fee. All projects which include construction, demolition, excavation, extraction, and/or other earth moving activities as defined by Regulation VIII(Described below) are required to submit a Dust Control Plan and required fees to mitigate impacts related to dust.
- **Rule 4101:** Visible Emissions. District Rule 4101 prohibits visible emissions of air contaminants that are dark in color and/or have the potential to obstruct visibility.
- **Rule 9510:** Indirect Source Review (ISR). This rule reduces the impact PM10 and NOX emissions from growth on the SJVB. This rule places application and emission reduction requirements on applicable development projects in order to reduce emissions through onsite mitigation, offsite SJVAPCD administered projects, or a combination of the two. This Project will submit an Air Impact Assessment (AIA) application in accordance with Rule 9510's requirements.

- **Regulation VIII:** Fugitive PM10 Prohibitions. Regulation VIII is composed of eight rules which together aim to limit PM10 emissions by reducing fugitive dust. These rules contain required management practices to limit PM10 emissions during construction, demolition, excavation, extraction, and/or other earth moving activities.

Discussion

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

An Air Quality and Greenhouse Gas Impact Memo (Memo) was prepared by Padre and Associates, March 2025, attached as Appendix B. The emissions were estimated using the most recent emission factors and load factors obtained from the California Emissions Estimator Model® (CalEEMod) User's Guide, Emission Factors (EMFAC) model. The Memo is focused only on the development of the Site, the additional Annexation Area was not included as no development is proposed for the additional annexation area.

If a project were to generate criteria pollutants below significance thresholds adopted by the SJVAPCD listed in Table 3-2 above, the Project would be considered to result in a less than significant impact and in compliance with adopted SJVAPCD rules and regulations.

Estimates for both construction and operational emissions, based on the development of 658 housing units and a commercial shopping center with two fast food restaurants, two general retail stores, and one gasoline/diesel fueling station with an associated mini mart, were evaluated in the Air Quality and Greenhouse Gas Memo as shown in Table 3-4 and 3-5 below. The residential unit count was decreased to 650 after the completion of the modeling, but will not significantly change the impacts to air quality.

Table 3-4 Estimated Construction Criteria Pollutant Emissions

Phase	NOx	ROG	PM10	PM2.5	CO	SO2
Residential Phase 1	0.533	0.055	2.8	0.454	1.42	0.006
Residential Phase 2	0.533	0.055	2.8	0.454	1.42	0.006
Residential Phase 3	0.533	0.055	2.8	0.454	1.42	0.006
Residential Phase 4	0.533	0.055	2.8	0.454	1.42	0.006
Commercial Year 1	0.158	0.015	0.589	0.145	0.532	0.002
Commercial Year 2	0.158	0.015	0.589	0.145	0.532	0.002
Commercial Year 3	0.158	0.015	0.589	0.145	0.532	0.002
SJVAPCD Significance Threshold (tpy)	10	10	15	15	100	27
Exceeds Thresholds?	NO	NO	NO	NO	NO	NO

Units shown in Tons per Year (tpy)

Table 3-5 Estimated Operational Criteria Pollutant Emissions

Phase	NOx	ROG	PM10	PM2.5	CO	SO2
Residential Operational Emissions	0.722	0.221	8.9	2.25	17.6	0.055
Commercial Operational Emissions	0.600	0.267	4.24	1.08	14.4	0.033
Total Operational Emissions	1.322	0.488	13.14	3.33	32	0.088
SJVAPCD Significance Threshold	10	10	15	15	100	27
Exceeds Thresholds?	NO	NO	NO	NO	NO	NO

Source: Padre and Associates Memorandum, Appendix A
Units shown in Tons per Year (tpy)

As shown above, the Project's short-term (construction) and long-term (operational) emissions are below SJVAPCD thresholds. As a result, the Project will not conflict with or obstruct implementation of any air quality plans. The impact of the Project would be **less than significant**.

Mitigation Measures: None Required

- b) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?**

Based on the Project construction schedule (i.e., four years of residential construction followed by three years of commercial construction), criteria pollutant emissions for the Project were estimated to be well below the SJVAPCD significance thresholds (refer to Table 3-4 above). Operational Emissions were also estimated to be well below the SJVAPCD thresholds as shown in Table 3-5.

The primary sources of particulate matter of 10 microns in diameter or less (PM10) and particulate matter 2.5 microns or less (PM2.5) emissions were fugitive dust from temporary grading activities and vehicles traveling on paved roads. Diesel particulate matter (DPM) from the use of onsite diesel-powered equipment was estimated to be less than 0.002 tons per year for both residential and commercial construction phases. Full emissions estimate tables are provided as an attachment in Appendix B.

The SJVAB is designated as non-attainment for O3 and PM2.5 for federal standards and nonattainment for O3, PM10, and PM2.5 for State standards. SJVAPCD nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

In developing thresholds of significance for air pollutants, the SJVAPCD considered the emission levels

for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. Since the basin is in non-attainment for ozone, PM10 and PM2.5, it is considered to have an existing significant cumulative health impact without the project. When this occurs, the analysis considered whether the project's contribution to the existing violation of air quality standards is cumulatively considerable. The SJVAPCD regional thresholds for Nox, VOC, PM10 and PM2.5 are applied as cumulative contribution thresholds. Projects that exceed the regional thresholds in Table 3-2 would be considered to have a cumulative health impact. As shown in Tables 3-4 and 3-5 the Projects construction and operational emissions would not exceed SJVAPCD thresholds, impacts are considered to be **less than significant**.

Mitigation Measures: None Required

c) Would the project expose sensitive receptors to substantial pollutant concentrations?

Using the Project construction and operational emissions estimates, Padre completed a health risk prioritization screening of the Project's residential and commercial construction and operational phase DPM emissions using the SJVAPCD's Prioritization Calculator. The Prioritization Calculator utilizes toxic profiles based on Assembly Bill (AB) 2588 Hotspots Air Toxic Profiles and estimated Project emissions to calculate a prioritization score between 0 and 100 for cancer risk, acute toxicity risk, and chronic toxicity risk.

In accordance with the Air Toxics Hot Spots Program, Facility Prioritization Guidelines and SJVAPCD APR-1906 Framework for Performing Health Risk Assessments, a facility or project with a prioritization score between 0 and less than 10 would not be required to perform a Health Risk Assessments (HRA) and would have a less than significant impact.

The nearest sensitive receptors to the Project Site consist of single-family residential homes on adjacent properties within 0 to 100 meters to the west and south of the Project Site, and the adjacent Hamilton Elementary School and Freedom Park. In addition, the screening also considers the newly constructed residential developments as sensitive receptors after each phase of residential construction has been completed. The prioritization screening evaluated the impacts to receptors for the estimated onsite Project DPM emissions associated with the construction phases and onsite DPM emissions associated with the operational phases. The table below summarizes the maximum prioritization scores for all years of construction and the full operational phase on completion of construction.

Table 3-5. Results of Prioritization Screening

Phase	Receptor Proximity				
	0 to 100 (m)	100 to 250 (m)	250 to 500 (m)	500 to 1,000 (m)	1,000 to 1,500 (m)
Residential Construction Year 1	8.32	2.08	0.333	0.091	0.025
Residential Construction Year 2	8.87	2.22	0.355	0.098	0.027

Residential Construction Year 3	9.42	2.36	0.377	0.104	0.028
Residential Construction Year 4	9.98	2.49	0.399	0.110	0.030
Residential Operational Only	2.22	0.55	0.089	0.024	0.007
Commercial Construction Year 1	8.64	2.16	0.346	0.095	0.026
Commercial Construction Year 2	9.10	2.28	0.364	0.100	0.027
Commercial Construction Year 3	9.56	2.39	0.383	0.105	0.029
Residential and Commercial Operational Only	6.95	1.74	0.278	0.076	0.021

Prioritization scores are less than 10, therefore an HRA would not be required by the SJVAPCD and impacts are considered ***less than significant***.

Mitigation Measures: None Required

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The Project will create temporary localized odors during Project construction, such as odors from diesel-powered equipment and vehicles. These odors will be temporary and would most likely not occur over an extended period of time or concentrated in one location on the Project Site.

The proposed Project uses are not anticipated to create or emit objectionable odors that would affect a substantial number of people; therefore impacts are considered to be ***less than significant***.

Mitigation Measures: None Required

IV. BIOLOGICAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish & Game or U.S. fish and Wildlife Service?	☐	☒	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☐	☒
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

Environmental Setting

The Project Site is currently comprised of fallow agricultural land on the southern half and nut trees on the northern portion. The site does not contain any buildings. The fallow portion of the Project Site had previously been farmed, but has been out of agricultural production for many years. The entire site has been highly disturbed as a result of periodic grading and disking as part of normal agricultural practices and for weed control since agricultural practices have ceased. The site will continue to be disced for weed and fire control until fully developed.

Discussion

- a) **Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local**

or regional plans, policies, or regulations, or by the California Department of Fish & Wildlife or U.S. Fish and Wildlife Service?

A Biological Evaluation (BE) was completed by Live Oak Associates (2024, see Appendix B), which included an on-site survey on November 4, 2024. The BE only evaluated the potential impacts to the Project Site, no changes to uses north of the Project Site (expanded Annexation Area) will occur, therefore were not evaluated. The BE is the basis of analysis for the analysis presented in this section.

Sources of information for the BE included the Information for Planning and Consultation (IPaC) system (USFWS 2024), California Natural Diversity Data Base (CDFW 2024), *Online Inventory of Rare and Endangered Vascular Plants of California* (CNPS 2024), and manuals, reports, and references related to plants and animals of the Project vicinity. A complete list and references are found in the BE.

The California Natural Diversity Data Base (CNDDB) search indicated 10 special status plants and 13 animals have been documented in the general vicinity of the Project site or are known to occur regionally. Of these, 19 are considered absent from or unlikely to occur on the site due to the absence of suitable habitat, the site's urban setting and other landscape factors, and/or the site's being situated outside of the species' known distribution. A list of the species, habit and likeliness to occur is found in Table 4-1 below. Because these species have no appreciable potential to occur on site, they are not expected to be affected by the Project, directly or indirectly. Project impacts to these species are considered less than significant.

Table 4-1 LIST OF SPECIAL STATUS SPECIES POTENTIALLY OCCURRING IN THE PROJECT VICINITY

Species	Status	Habitat	*Occurrence within the Project Site
California Native Plant Society (CNPS) Species			
Heartscale (<i>Atriplex cordulata</i> <i>var. cordulata</i>)	CRPR 1B.2	Occurs on saline or alkaline soils in chenopod scrub, meadows, seeps, and grasslands; blooms April-October; elevations below 1,230 ft.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Earlimart Orache (<i>Atriplex cordulata</i> <i>var. erecticaulis</i>)	CRPR 1B.2	Occurs in valley and foothill grasslands between 130 and 330 ft. in elevation; blooms August-September.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Brittlescale (<i>Atriplex depressa</i>)	CRPR 1B.2	Occurs in chenopod scrub, valley and foothill grassland, meadows and seeps, playas, and vernal pools. It is rarely found	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.

		in riparian or marsh habitats. Blooms April-October; elevations below 1,050 ft.	
Lesser Saltscale (<i>Atriplex minuscula</i>)	CRPR 1B.1	Occurs in cismontane woodland and valley and foothill grasslands of the San Joaquin Valley; alkaline/sandy soils; blooms May-October; elevation 50-660 ft.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Subtle Orache (<i>Atriplex subtilis</i>)	CRPR 1B.2	Occurs in alkaline vernal pools; blooms July-Oct.; elevations below 400 ft.	Absent. Vernal pool habitat is absent from the Project site.
Recurved Larkspur (<i>Delphinium recurvatum</i>)	CRPR 1B.2	Occurs in alkaline soils of cismontane woodland and valley and foothill grasslands in elevations 100 – 2,000 feet. Blooms March-June.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Alkali-Sink Goldfields (<i>Lasthenia chrysantha</i>)	CRPR 1B.1	Occurs in valley grassland, alkali sink, wetland riparian areas less than 328 ft. in elevation in the southern Sacramento Valley and San Joaquin Valley. Blooms February – June.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Mud Nama (<i>Nama stenocarpa</i>)	CRPR 2B.2	Occurs in intermittently wet areas such as lake shores and river banks. Occurs sparingly in the Central Valley and more frequently in Southern California from sea level to below 1,640 feet. Blooms January-July.	Absent. Intermittently wet areas needed for the proliferation of this species are absent on the Project site.
California Alkali Grass (<i>Puccinellia simplex</i>)	CRPR 1B.2	Occurs in alkali sinks and flats within grassland and chenopod scrub habitats of the Central	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.

		Valley, San Francisco Bay area and western Mojave Desert; elevations below 3,000 feet. Blooms March-May.	
Sanford's Arrowhead (<i>Sagittaria sanfordii</i>)	CRPR 1B.2	Occurs in freshwater emergent marsh habitat in drainage ditches and canals of California's Central Valley. Blooms May to October.	Absent. Aquatic habitat needed to support this species is absent from the Project site.
Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Act			
Vernal Pool Fairy Shrimp (<i>Branchinecta lynchi</i>)	FT	Occurs in vernal pools, clear to tea-colored water in grass or mud-bottomed swales, and basalt depression pools.	Absent. Suitable habitat in the form of vernal pools is absent from the site and immediately surrounding lands.
Vernal Pool Tadpole Shrimp (<i>Lepidurus packardii</i>)	FE	Vernal pools of clear to turbid waters of the Central Valley measuring 54 sq.ft. to larger pools (largest known to be 89-acre Olcott Lake).	Absent. Suitable habitat in the form of vernal pools is absent from the site and immediately surrounding lands.
California Tiger Salamander-Central California DPS (<i>Ambystoma californiense</i>)	FT, CT	Found primarily in annual grasslands; requires vernal pools for breeding and rodent burrows for aestivation. Although most CTS aestivate within 0.4 mile of their breeding pond, outliers may aestivate up to 1.3 miles away (Orloff 2011).	Absent. The Project site is situated in a matrix of urban and intensive agricultural lands within which this species would not have been able to persist. The nearest block of contiguous grassland is located more than 6 miles east of the site along Cross Creek. The closest CNDDB occurrence is over 8 miles northeast of the Project site; it refers to an observation made sometime prior to 1925, from a population that is now considered extirpated (CDFW 2024).
Western Spadefoot (<i>Spea hammondi</i>)	FPT, CSC	Occurs in grasslands of San Joaquin Valley, where it breeds in	Absent. The Project site is situated in a matrix of urban and intensive agricultural lands

		vernal pools or other seasonal wetlands and aestivates in underground refugia such as rodent burrows. Baumberger et al. (2019) recorded a maximum distance of around 890 feet between breeding and aestivation sites.	within which this species would not have been able to persist. Although the basins to the west and northwest of the site may theoretically be suitable for spadefoot reproduction, they were constructed between 2003 and 2010, after the surrounding landscape was converted to unsuitable uses. The nearest block of contiguous grassland is located more than 6 miles east of the site along Cross Creek; that is also where the nearest CNDDDB occurrences of this species are (CDFW 2024).
Northwestern Pond Turtle (<i>Actinemys marmorata</i>)	FPT, CSC	Found in ponds, marshes, rivers, streams, and irrigation ditches with aquatic vegetation. Requires partially submerged rocks or logs for basking sites. Nesting takes place in open areas, on a variety of soil types, and up to ¼ mile away from water. Overwintering and summertime aestivation includes use of upland habitat, generally with leaf litter or other loose substrate for burying themselves.	Unlikely. The Project site consists entirely of intensive agricultural lands that lack aquatic features and offer little to no upland habitat value for this species; the latter is limited to marginal nesting opportunity in the site's disked field. Two aquatic features within ¼ mile of the site are potentially suitable for pond turtles: the ponding basin to the west and the East Branch Peoples Ditch to the northwest. Even if pond turtles occupy these features, however, they are unlikely to travel to the site for nesting. The ponding basin is completely enclosed by a chainlink fence, which would prevent this species from migrating to the Project site. The East Branch Peoples Ditch is located more than 0.3 mile from the site's disked field, the one area of the site that could theoretically support nesting by this species. Furthermore, there are no nearby iNaturalist records (iNaturalist 2024) and the closest CNDDDB occurrence is

			approximately 9.5 miles south of the Project site (CDFW 2024). For these reasons, northwestern pond turtles are unlikely to be found on the Project site.
Blunt-Nosed Leopard Lizard (<i>Gambelia sila</i>)	FE, CE, FP	Occurs in semiarid grasslands, alkali flats, and washes. Avoids densely vegetated areas. Inhabits the San Joaquin Valley and adjacent valleys and foothills north to southern Merced County.	Absent. Agricultural and urban development has eliminated any potential habitat from the Project site and surrounding area. There are no CNDDDB occurrences within the vicinity of the Project site (CDFW 2024).
Tricolored Blackbird (<i>Agelaius tricolor</i>)	CT, CSC	Breeds colonially near fresh water in dense bulrush, cattails, thickets of willows or shrubs, and increasingly in wheat or triticale fields. Forages in grassland and cropland areas.	Possible. Tricolored blackbirds are not commonly documented in the Project vicinity. There is one eBird occurrence within 5 miles of the site, documented approximately 3.5 miles to the northeast in 2002. The closest CNDDDB occurrence is approximately 10 miles south of the site, recorded in 2000. Nevertheless, this species has some potential to occur on site. The site's agricultural field is suitable for foraging, and may provide nesting habitat for this species if it is rotated to wheat or another suitable grain crop
Burrowing Owl (<i>Athene cunicularia</i>)	CC, CSC	Frequents open, dry annual or perennial grasslands, deserts, and scrublands characterized by low growing vegetation. Dependent upon burrowing mammals, most notably the California ground squirrel, for nest burrows.	Unlikely. The Project site does not contain suitable habitat for burrowing owls and is situated within a matrix of intensive agricultural and urban uses generally incompatible with this species' ecology. There are only two eBird sightings of burrowing owl within 10 miles of the Project site, and the closest known CNDDDB occurrence is located approximately 6.5 miles

			northeast of the Project site in the grasslands along Cross Creek, documented in 2017 (CDFW 2024).
Swainson's Hawk (<i>Buteo swainsoni</i>)	CT	This breeding migrant to California nests in mature trees in riparian areas and oak savannah, and occasionally in lone trees at the margins of agricultural fields. Requires adjacent suitable foraging areas such as grasslands or alfalfa fields supporting rodent populations	Possible. The Project site contains foraging habitat in the form of a disked field, but does not contain nesting habitat for the Swainson's hawk. Swainson's hawks do have the potential to nest in the mature trees within the immediate Project vicinity. They are well-documented in the area; there are 20 CNDDDB nesting occurrences within 10 miles of the site, with the closest located just 1.5 mile to the southeast (CDFW 2024), and over 50 eBird sightings within a 10-mile radius as well (eBird 2024).
Tipton Kangaroo Rat (<i>Dipodomys nitratoide</i> <i>nitratoide</i>)	FE, CE	Inhabits valley saltbrush scrub, valley sink scrub, and grassland habitats located from the Valley floor to 300 ft. in elevation.	Absent. Suitable habitat is absent from the Project site, and the site is situated in a matrix of intensive agricultural and urban uses within which this species would not have been able to persist. There are no CNDDDB occurrences in the vicinity (CDFW 2024).
San Joaquin Kit Fox (<i>Vulpes macrotis mutica</i>)	FE, CT	Desert alkali scrub, annual grasslands of California's San Joaquin Valley and Tulare Basin, extending west into San Luis Obispo County. This species may forage in adjacent agricultural fields.	Unlikely. This species was historically known from the Project vicinity. There are 13 CNDDDB occurrences within 10 miles of the Project site, including one occurrence just 0.75 mile from Project boundaries; however, all but two of these are from the 1970s, with the remaining records from 2000 and 2006. The Project site is situated in a matrix of urban and intensive agricultural land uses generally

			incompatible with kit fox ecology, and the site itself consists of a highly-managed orchard and agricultural field, neither of which are likely to attract individuals of this species. These factors, combined with the lack of modern sightings, suggest a very low probability of kit fox occurrence on site.
Loggerhead Shrike (<i>Lanius ludovicianus</i>)	CSC	Found in a variety of arid habitats. Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	Possible. This species is known from the vicinity. There are five eBird sightings within 5 miles of the Project site; the closest of these was recorded just ½ mile north of Project boundaries in 2021. Loggerhead shrikes could forage over the site's agricultural field and the walnut orchard could potentially be used for nesting by this species.
Western Mastiff Bat (<i>Eumops perotis californicus</i>)	CSC	Frequents open, semi-arid to arid habitats, including conifer, and deciduous woodlands, coastal scrub, grasslands, palm oasis, chaparral and urban. Is known to forage over long distances, flying up to 15 miles a night. Roosts in cliff faces, high buildings, and tunnels.	Possible. The Project site does not contain roosting habitat for this species. Though generally uncommon within the Central Valley, this species may occasionally forage over the site.

OCCURRENCE DESIGNATIONS AND STATUS CODES

Present: Species observed on the site at time of field surveys or during recent past.

Likely: Species not observed on the site, but it may reasonably be expected to occur there on a regular basis.

Possible: Species not observed on the site, but it could occur there from time to time.

Unlikely: Species not observed on the site, and would not be expected to occur there except, perhaps, as a transient

Absent: Species not observed on the Site and precluded from occurring there because habitat requirements not met.

STATUS CODES

FE Federally Endangered

FT Federally Threatened

FPT Federally Proposed Threatened

CE California Endangered

CT California Threatened

CSC California Species of Special Concern

FC	Federal Candidate	CFP CC	California Fully Protected California Candidate for Listing
----	-------------------	-----------	--

CRPR CODES

1A	Plants Presumed Extinct in California	2B	Plants Rare, Threatened, or Endangered in California, but more common elsewhere
1B	Plants Rare, Threatened, or Endangered in California and elsewhere		

The site's agricultural field could support nesting by ground-or vegetation nesting birds such as the mourning dove, western meadowlark (*Sturnella neglecta*), and (when planted to a suitable grain such as wheat or triticale), the red-winged blackbird (*Agelaius phoenecius*) and possibly even the California Threatened tricolored blackbird (*Agelaius tricolor*). The site's orchard trees have the potential to be used for nesting by a variety of migratory birds, possibly including the loggerhead shrike (*Lanius ludovicianus*), a California Species of Concern. Larger trees in the immediate Project vicinity have the potential to support nesting raptors, possibly including the Swainson's hawk (*Buteo swainsoni*), a California Threatened species. Nearly all birds are protected by state and federal law. If Project construction takes place during the nesting season, birds nesting on site could be injured or killed by construction activities, while birds nesting near the site could be disturbed such that they would abandon their nests. Construction-related mortality of nesting birds and disturbance leading to nest abandonment would violate state and federal laws and constitute a significant impact of the Project. Tricolored blackbirds, Swainson's hawks, and loggerhead shrikes are not expected to be adversely affected by Project-related loss of habitat. The site does not offer unique habitat for any of these species, nor is it likely to represent an important part of any individual foraging range, given its disturbed nature and urban setting. Similar and higher quality habitats are abundant in the Project vicinity and elsewhere in the region. Project-related loss of habitat for these species is considered a less than significant impact under CEQA.

One special status animal species, the western mastiff bat (*Eumops perotis ssp. californicus*), has the potential to pass through or forage on the site from time to time but would not roost on or near enough to the site that they could be vulnerable to construction-related disturbance or reproductive failure. Individuals of this species are unlikely to be injured or killed by construction activities because they are highly mobile while foraging and would be expected to simply avoid active work areas.

The Project would not adversely affect this species through loss of foraging habitat. The site does not offer unique foraging habitat for the western mastiff bat, nor is it likely to represent an important part of any individual foraging range, given its disturbed nature and urban setting. Similar and higher quality foraging habitats are abundant in the Project vicinity and elsewhere in the region.

Implementation of the following mitigation measures will reduce potential Project impacts to nesting birds and raptors, including the tricolored blackbird, loggerhead shrike, and Swainson's hawk, to a less than significant level under CEQA and facilitate compliance with state and federal laws protecting these species.

Mitigation Measure BIO 1 (Construction Timing). If feasible, future construction activities will take place entirely outside of the avian nesting season, defined as February 1 to August 31.

Mitigation Measure BIO 2 (Preconstruction Surveys). If construction must occur between February 1 and August 31, a qualified biologist shall conduct surveys for active bird nests within 7 days prior to the start of work during this period. The survey area shall encompass the site and accessible surrounding lands within ¼ mile for nesting Swainson's hawks, 500 feet for other nesting raptors, 300 feet for the tricolored blackbird, and 250 feet for other nesting birds.

Mitigation Measure BIO 3 (Avoidance of Active Nests). Should any active nests be discovered in or near proposed construction zones, the biologist shall identify a suitable construction-free buffer around the nest. This buffer shall be identified on the ground with flagging or fencing and shall be maintained until the biologist has determined that the young have fledged and are capable of foraging independently.

Therefore impacts are considered *less than significant with mitigation*.

- b) **Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?**

There is no riparian habitat or other sensitive natural community on site or adjacent to the Project. Therefore, there is *no impact*.

Mitigation Measures: None Required

- c) **Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?**

No water or other hydrologic features occur within the Project Site. The East Branch People Ditch does cross the expanded Annexation Area, however there are no changes to the physical environment within the expanded Annexation Area that would result in impacts to the ditch. As such, there are no impacts to state or federally protected wetlands. There is *no impact*.

Mitigation Measures: None Required

- d) **Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?**

As stated in the BE, the Project Site did not contain wildlife movement corridors, sensitive natural communities, designated critical habitat, or state or federally protected waters or wetlands. The East Branch People Ditch does cross the expanded Annexation Area and has the potential to be used by wildlife. As stated in Item (c) above, there are no changes to the physical environment within the expanded Annexation Area that would result in impacts to the ditch. Therefore, the Project will have *no impact*.

Mitigation Measures: None Required

- e) **Conflict with any local policies or ordinances protecting biological resources, such as a tree**

preservation policy or ordinance?

The City has a Tree Ordinance to protect heritage trees. A heritage tree is defined as “(1) any Oak Tree native to Central California, Valley Oak Tree (*Quercus lobata*), with a diameter greater than 10 inches; or (2) any tree or a group of trees specifically designated by the city council for protection because of its historical significance, special character or community benefit.” The Project Site and the expanded Annexation Area do not contain any Valley Oak Trees or trees that have been designated as protected by the City Council. The proposed Project will comply with City of Hanford policies and ordinances, therefore there is ***no impact***.

Mitigation Measures: None Required

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

The proposed Project is not located within the boundaries of an adopted Habitat Conservation Plan, Natural Communities Conservation Plan, or other approved local, regional or state habitat conservation plan. There is ***no impact***.

Mitigation Measures: None Required

V. CULTURAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☒	☐	☐

Environmental Setting

Cultural Resources are defined as prehistoric or historical archaeological sites as well as historical objects, buildings, or structures. In accordance with 36 Code of Federal Regulations (CFR) §60.4, “historical” in this report applies to cultural resources which are at least 50 years old. The significance or importance of a cultural resource is dependent upon whether the resource qualifies for inclusion at the local level in a local register of historical resources, at the state level in the California Register of Historical Resources (CRHR), or at the federal level in the National Register of Historic Places (NRHP). Cultural resources that are determined to be eligible for inclusion in the CRHR are called “historical resources” (California Code of Regulations [CCR] 15064.5[a]). Under this statute the determination of eligibility is partially based on the consideration of the criteria of significance as defined in 14 CCR 15064.5(a)(3). Cultural resources eligible for inclusion in the NRHP are deemed “historic properties”.

A Cultural Resource Assessment was prepared by Taylored Archaeology for the proposed Project, see Appendix C. The assessment included a California Historical Resources Information System (CHRIS) record search by Southern San Joaquin Information Center (SSJIC) for the Project Site on October 14, 2024. According to the search results, three prior cultural resources studies were conducted within the Project area; KI-00103 is adjacent to the southern Project boundary along Grangeville Boulevard. No prehistoric resources were encountered during its pedestrian survey. KI-00238 and KI-00269 are archaeological desktop reviews with no associated surveys. In addition, three previous cultural resources studies were conducted within a 0.5-mile radius of the Project Site. The results of the records search indicate that no cultural resources were previously recorded within the Project boundary and 13 cultural resources were recorded within the 0.5-mile search radius. The 13 cultural resources are all historic-era, and do not overlap the Project boundary.

In addition to the records search, Taylored Archaeology conducted an on-site pedestrian survey of the site on October 19, 2024. The results of the pedestrian survey indicate that the Project boundary consists of agricultural fields with no noted development. The Project Site consists of an orchard in the northern half and tilled field in the southern half. Ground surface visibility was generally excellent (95 to 100 percent), though small portions of the ground surface were obscured by grass and weeds. Rodent burrows and any related soil piles were closely examined for lithic scatters and for indications of buried deposits.

No prehistoric or historic archaeological resources were identified during the pedestrian survey. The natural topography of the area has been altered by historical and modern agricultural practices and much of the land on the Project Site has been graded and plowed, which has caused additional disturbance to the soil. While past agricultural activities may have potentially destroyed or obscured ground surface evidence of archaeological resources within the Project boundary, intact archaeological resources related to prior occupation of the area may potentially exist below the ground surface.

Discussion

a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?

There are no known historical resources on or near the subject property that would be impacted by the proposed project, therefore there is ***no impact***.

Mitigation Measures: None Required

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

There are no known archaeological resources located within the Project area. Implementation of Mitigation Measure CUL-1 requires that if any remains are discovered, construction shall stop and appropriate authorities be notified. Authorities include the County Coroner and archaeologist and, if remains are determined to be pre-historic, the Native American Heritage Commission (NAHC) shall be consulted. Implementation of Mitigation Measures CUL 1 will ensure that impacts will be ***less than significant with mitigation incorporation***.

Mitigation Measure CUL-1: In the event of discovery of unidentified archaeological remains during development or ground disturbing activities in the Project area, all work shall be halted in immediate vicinity (within a 100-foot radius) until a qualified archaeologist can identify the discovery and assess its significance.

c) Would the project disturb any human remains, including those interred outside of formal cemeteries?

There are no known human remains buried in the Project vicinity. If human remains are unearthed during development, there is a potential for a significant impact. The City and the Santa Rosa Rancheria Tachi Yokut Tribe have also agreed to a mitigation measure that requires the developer/owner to agree to a burial treatment plan prior to any ground disturbing activities. As such, implementation of Mitigation Measure CUL-2 and CUL 3 will ensure that impacts remain ***less than significant with mitigation incorporation***.

Mitigation Measure CUL 2: If human remains are uncovered during construction, work shall be halted, and the Kings County Coroner is to be notified to investigate the remains and arrange proper treatment and disposition. If the remains are identified on the basis of archaeological context, age, cultural associations, or biological traits to be those of a Native American, California Health and Safety Code 7050.5 and California Public Resources Code 5097.98 require that the coroner notify the Native American Heritage Commission (NAHC) within 24 hours of discovery. The NAHC will then identify the

Most Likely Descendent who will make recommendations regarding the treatment and disposition of the remains.

Mitigation Measure CUL 3 A burial Treatment Plan shall be entered into by the Project applicant/property owner prior to any ground disturbing activities.

VI. ENERGY

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

Environmental Setting

Energy conservation requires consideration of energy implications in project decisions, including a discussion of the potential energy impacts with emphasis on avoiding or reducing inefficient, wasteful and unnecessary consumption of energy resources. A project would be considered inefficient wasteful and unnecessary if it violated existing energy standards, had a negative effect on local and regional energy supplies and requirement for additional capacity, or had a negative effect on peak and base period demands for electricity and other energy forms.

The California Energy Commission updates the Building Energy Efficiency Standards (Title 24, Parts 6 and 11) every three years as part of the California Code of Regulations. The standards were established in 1978 in effort to reduce the state's energy consumption. The standards apply to new construction, and additions and alteration to residential and nonresidential buildings and related to various energy efficiencies including but not limited to ventilation, air conditioning, and lighting.

Pacific Gas and Electric provides gas and electrical service to the City of Hanford.

Regulations

The following list of regulations is not intended to be exhaustive of all regulations.

California Code of Regulations, Title 20: Title 20 of the California Code of Regulations establishes standards and requirements for appliance energy efficiency. The standards apply to a broad range of appliances sold in California.

California Code of Regulations, Title 24: Title 24 of the California Code of Regulations comprises the California Energy Code, a broad set of standards designed to address the energy efficiency of new and altered homes and commercial buildings. These standards regulate energy consumed for heating, cooling, ventilation, water heating, and lighting. Title 24 requirements are enforced locally by the City of Hanford Building Department.

California Green Building Standards Code (CALGreen): CalGreen is a mandatory green building code that sets minimum environmental standards for new construction statewide on January 17, 2008. The code was voluntary until 2010, when compliance became mandatory. The most recent update went into effect January 1, 2023. Cal Green is a set of regulations that mandates sustainable building practices to reduce environmental impacts and promote energy and water efficiency in both residential and non-residential

construction. Key areas covered by Cal Green include energy efficiency, water efficiency, indoor air quality and use of sustainable materials.

Discussion

a) Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

The Project proposes the construction of 650 residential units and 5.45 acres of neighborhood mixed use commercial that will result in additional energy consumption, as evaluated below.

Construction

During Project construction there would be an increase in energy consumption related to worker trips and operation of construction equipment. This energy consumption will be short-term and temporary. There are not unusual Project characteristics or construction processes that would require use of equipment that will be more energy intensive than used for comparable activities. Construction will include site preparation, building construction, paving and architectural coatings. The primary source of energy for construction will be diesel and gasoline.

All equipment shall conform to current emission standards and related fuel efficiencies including applicable California Air Resources Board (CARB) regulations, California Code of Regulations (Title 13, Motor Vehicles) and Title 24 standards. Compliance with these regulations would ensure that short-term, temporary construction activities do not result in wasteful, inefficient or unnecessary consumption of energy resources.

Operations

Project operation involves the heating, cooling, use of equipment, and vehicle trips. Operation of the 650 residential homes would be required to comply with energy efficiency standards as dictated by State and federal regulations including Title 24 energy efficiency requirements and adopted energy efficient standards by the California Energy Commission.

Therefore, the Project is expected to comply with all energy efficiency standards and requirements and will have a ***less than significant impact***.

Mitigation Measures: None Required

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

See discussion above. The proposed Project will not conflict with or obstruct any State or local plans for renewable energy or energy efficiency. The Project will be designed to meet Title 24 and CAL Green requirements. Compliance with these standards will be enforced by the City of Hanford Building Division, therefore there is ***no impact***.

Mitigation Measures: None Required.

VII. GEOLOGY AND SOILS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct and indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

Environmental Setting

According to the 2024 Kings County Multi-Jurisdictional Hazard Mitigation Plan no major fault systems are known to exist in Kings County. Minor surface rupture could occur in areas of minor faulting, which occur primarily in the southwestern part of the county. Ground shaking is the most likely damaging effect of an earthquake for Hanford. Shaking was felt in Hanford during the Coalinga earthquake with a magnitude of 6.4 in 1983. The San Andreas fault is located less than four miles west of the Kings County line. Another large known fault, the White Wolf fault, is located to the south near Bakersfield and produced a 7.7 magnitude earthquake in 1952. There have not been any damaging earthquakes greater than magnitude 6.0 recorded in Kings County in over 200 years, though several have been very close.

Soils in Hanford do not have significant liquefaction potential. Hanford is located in a stable geologic formation, so the effects of ground shaking on soil stability should be minimal.

There are four seismic zones in the United States ranging from I to IV; the higher the number, the higher the earthquake danger. All of California lies within Seismic Zone III or IV. Stronger construction standards for buildings in Zones III and IV have been adopted in the International Building Code. Most of Kings County, including Hanford, is in Zone III.

Discussion

a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i. **Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.**

ii. **Strong seismic ground shaking?**

iii. **Seismic-related ground failure, including liquefaction?**

iv. **Landslides?**

As stated above, the site is not located in an earthquake fault zone and no active faults have been mapped within the Project boundaries. The Project Site would be engineered to meet the California Building Code for Seismic Zone III. In addition, the proposed Project Site is generally flat and there are no hill slopes in the area. As such, impacts are considered **less than significant**.

Mitigation Measures: None Required

b) Would the project result in substantial soil erosion or the loss of topsoil?

Development of the Project will require typical site preparation activities such as grading and trenching that will result in the potential for short-term soil disturbance or erosion impacts. Construction would also involve the use of water for dust control that may cause further soil disturbance. Those discharges are regulated by the National Pollutant Discharge Elimination System (NPDES) permit process and will be addressed through compliance with the State Water Resources Control Board (SWRCB), which requires new development to implement measures to minimize soil erosion related to construction.

Construction-related impacts related to erosion will be temporary and subject to best management practices (BMPs) required by Stormwater Pollution Prevention Plan (SWPPP), which are developed to prevent significant impacts related to erosion from construction. Because impacts related to erosion would be temporary and limited to construction, and because required BMPs would prevent significant impacts related to erosion the impacts from the proposed Project will be **less than significant**.

Mitigation Measures: None Required

c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateralspreading, subsidence, liquefaction or collapse?

According to the United States Department of Agriculture National Resource Conservation Service (NRCS) Web Soil Survey and soil descriptions soils associated with the Project Site, Kimberlina Fine Sandy Loam

(saline alkali, sandy substratum), are considered stable and have a low capacity for landslides, lateral spreading, subsidence, liquefaction or collapse. The Project does not involve a substantial grade change to the topography to the point that it would increase the risk of landslides, lateral spreading, subsidence, liquefaction or collapse, therefore Impacts are considered ***less than significant***.

Mitigation Measures: None Required

- d) **Would the project be located on expansive soils, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?**

As stated in (c) above, the Project Site is located on Kimberlina Fine Sandy Loam, which is well draining with low runoff unless it contains a clay substratum, which the Project Site does not contain. As such, this soil type is not an expansive soil, therefore impacts are ***less than significant***.

Mitigation Measures: None Required

- e) **Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?**

The proposed Project will connect to the existing City wastewater infrastructure and would not require the use of septic tanks or alternative wastewater disposal systems, therefore there is ***no impact***.

Mitigation Measures: None Required

- f) **Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?**

The Project Site does not have any known paleontological resources or unique geologic features. There is no evidence that cultural resources of any type (including historical, archaeological, paleontological, or unique geologic features) exist on the Project Site. Nevertheless, there is some possibility that a buried site may exist in the area and be obscured by vegetation, fill, or other historical activities. If archaeological resources, including paleontological resources, are discovered during construction, Mitigation Measures CUL 1 and CUL 2 shall be implemented, therefore reducing impacts to ***less than significant with mitigation***.

Mitigation Measures: Refer to CUL 1 and CUL 2

VIII. GREENHOUSE GAS EMISSIONS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.	☐	☐	☒	☐
a) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

Environmental Setting

The Hanford Air Quality Element identifies greenhouse gases as gases that trap heat in the atmosphere. The effect is analogous to the way a greenhouse retains heat. Greenhouse gases include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), sulfur hexafluoride (SF₆), hydrofluorocarbons (HFC), and perfluorocarbons (PFC). Natural processes and human activities emit greenhouse gases. The presence of greenhouse gases in the atmosphere regulates the earth's temperature. Without the natural heat trapping effect of greenhouse gas, the earth's surface would be about 34 degrees Centigrade cooler. Greenhouse Gases (GHS) are gases that absorb infrared radiation in the atmosphere and are different from the criteria pollutants discussed in Air Quality.

Statewide legislation, rules, and regulations have been adopted to reduce GHG emissions from significant sources. The California Air Resources Board (CARB) and Environmental Protection Agency (EPA) regulate Greenhouse Gas Emissions (GHG) in the State of California and the United States respectively. CARB's primary regulatory responsibility is within California for GHG emissions. California has adopted statewide legislation addressing various aspects of climate change and GHG emissions mitigation. The governor has also issued several executive orders related to climate change policies. Of particular importance is AB 32 and SB 32, which outline the state's GHG reduction goals and required the California Air Resources Board (CARB) to regulate sources of GHGs to meet a state goal of reducing GHG emissions to 1990 levels by 2020, 40 percent below 1990 levels by 2030, and 80 percent below 1990 levels by 2050.

Discussion

- a) **Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.**

Construction: Greenhouse gases would be generated during construction from activities including site demolition, site preparation, grading, building construction, application of architectural coatings, and paving. GHG emissions for the Project were estimated to be approximately 541 metric tons of carbon dioxide equivalent per year (MTCO₂E/year) for residential construction and 149 MTCO₂E/year per year for commercial construction (refer to Table 8.1 below). per year based on the Project description of 658 residential units, and 5.45 acres of commercial shopping center that will include two fast food restaurants, general retail and one gasoline/diesel fueling station with a mini-mart. The analysis was completed utilizing the CalEEMod Modeling Software and summarized in Table 8.-1 and 8-2 below. The full analysis can be found in Appendix B

Table 8.1 Estimated Construction Related Greenhouse Gas Emissions

Phase	Unit	N ₂ O	CH ₄	CO ₂	MTCO ₂ E/yr
Residential Year 1	Tons/yr	0.054	0.056	579	541
Residential Year 2	Tons/yr	0.054	0.056	579	541
Residential Year 3	Tons/yr	0.054	0.056	579	541
Residential Year 4	Tons/yr	0.054	0.056	579	541
Total Residential	Tons	0.216	0.224	2,318	2,162
Commercial Year 1	Tons/yr	0.012	0.022	160	149
Commercial Year 2	Tons/yr	0.012	0.022	160	149
Commercial Year 3	Tons/yr	0.012	0.022	160	149
Total Commercial	Tons	0.035	0.066	480	446

Notes: Total emissions numbers may not add up due to rounding.

Operation: Implementation of the proposed Project would result in long-term greenhouse gas emissions associated with area sources, such as natural gas consumption, landscaping, applications of architectural coatings, and consumer products, as well as mobile emissions. Total GHG operational phase plus amortized construction phase emissions for the Project were estimated using the CalEEMod model, which estimates emissions to be approximately 8,185 MTCO₂E/year for the residential Project and 4,494 MTCO₂E/year per year for the commercial Project (refer to Table 8.2 below). Mobile emissions were estimated to be the primary source of GHG emissions.

Table 8.2 Estimated Operational Greenhouse Gases

Phase	Unit	N ₂ O	CH ₄	CO ₂	MTCO ₂ E/yr
Residential Operational Phase without Resident Vehicle* Emissions	Tons/yr	0.013	0.229	609	561
Residential Operational Customer with Resident Emissions	Tons/yr	0.181	0.046	8,274	7,552
Total Operations Emissions	Tons	0.194	0.276	8,882	8,113
Commercial Operations Phase without Customer Vehicle* Emissions	Tons/yr	0.0005	1.22	73.5	97.8
Commercial Operations Phase with Customer Vehicle Emissions	Tons/yr	0.160	0.025	4,785	4,382
Total Operations Emissions	Tons	0.161	1.25	4,859	4,479
Total Residential Operational Phase Plus Amortized Construction Phase Emissions MTCO₂E/year*					8,185
Total Commercial Operational Phase Plus Amortized Construction Phase Emissions MTCO₂E/year*					4,494

Notes: * - Construction GHG emissions were amortized over 30 years.

Total emissions numbers may not add up due to rounding.

The SJVAPCD does not have thresholds or guidance regarding the significance of GHG emissions. However, the South Coast Air Quality Management District (SCAQMD) adopted an Interim GHG Significance

Threshold. For these reasons, Project GHG emissions levels presented in Tables 8.1 and 8.2 are primarily for disclosure purposes because impact analysis for the Project follows the approach certified by SCAQMD. The SCAQMD guidance identifies a threshold of 10,000 MTCO₂ eq./year for GHG for construction emissions amortized over a 30-year Project lifetime, plus annual operation emissions. Although the Project is under SJVAPCD jurisdiction, the SCAQMD GHG threshold provides some perspective on the GHG emissions generated by the Project. Tables 8.1 and 8.2 shows the yearly GHG emissions generated by the Project are less than 10,000 MTCO₂ eq/year, therefore impacts are considered **less than significant**.

Mitigation Measures: None Required

b) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

The City of Hanford adopted a Regional Climate Action Plan (CAP) in coordination with Kings County. The CAP includes a GHG inventory, a benchmarking/goal setting project and identified a reduction target for 2020. Although the CAP does not include a target for reduction in 2030, the measures in the plan will continue to provide reductions and help demonstrate continued progress in achieving the SB32 target for 2030.

The Regional CAP included policies that support emission reductions from new development. The Project contains features that have been evaluated for consistency with policies in the CAP and found consistent as summarized below in Table 8-3.

Table 8-3 Consistency with the Regional Climate Action Plan Policies

E-4.1 Encourage local homebuilders to participate in the New Solar Homes Partnership to install solar PV systems on qualifying new homes. Consistent. The proposed Project will comply with the latest CALGreen solar readiness and installation requirements.
E-4.2 Work with the building industry to incorporate designs improving solar readiness into building plans through voluntary green building guidelines. Consistent. The proposed Project will comply with the latest CALGreen solar readiness and installation requirements.
E-5.2 Provide project applicants with green building resources, including the SJVAPCD's Best Performance Standards list for GHG reductions, and promote workshops offered by community organizations Consistent. The proposed Project will include sustainability features in the Project design in accordance with SJVAPCD requirements, CALGreen, and City of Hanford standards.
TL-1.1 Support and encourage mixed-use and medium- and high-density land use categories located within ¼ mile of a transit stop, park and ride facility, or existing developed areas, by allowing flexible zoning and/or density bonuses for applicable projects. Consistent. The Project site is located within 0.25 mile of a transit stop. The proposed Project will consist of mixed uses with a range of densities and 5.45 acres of neighborhood commercial uses.
TL-1.3 Allow live/work developments that permit residents to live at their place of work and thereby reduce VMT and associated GHG emissions. Consistent. The proposed Project will include a range of residential uses and neighborhood commercial uses that will allow employees of the Project's commercial facilities to live within walking distance.

TL-2.3 Establish minimum design criteria for bicycle and pedestrian circulation and implement through the design review process. Consistent. The proposed Project would provide pedestrian infrastructure connecting to neighboring uses. The construction of 91/4 will include the right of way for the proposed class 3 bike lane on 9 ¼ Avenue.
TL-2.4 Encourage the installation of adequate and secure bicycle parking at all multi-family residential, commercial, governmental, and recreational locations throughout the region. Consistent. The proposed Project will comply with CALGreen Code requirements for bicycle parking.
TL-2.5 Support land use planning that will promote pedestrian and bicyclist access to and from new development by encouraging land use and subdivision designs that provide safe bicycle and pedestrian circulation, including bicycle parking facilities and internal bicycle and pedestrian routes, where feasible. Consistent. The proposed Project would comply with all applicable City design standards related to safe bicycle and pedestrian circulation.
TL-3.4 Support and encourage new development that provides safe routes to adjacent transit stops, where applicable. (Community) Consistent. The proposed Project will comply with City design standards that provide a safe route to a nearby transit stop.
TL.5.2 Allow the joint use of parking facilities for both private businesses and public agencies. Consistent. <i>The proposed commercial development will provide parking that will serve multiple businesses located within the shopping center.</i>

Source: King County Association of Governments Regional Climate Action Plan

The proposed Project would incorporate features that would minimize GHG emissions, as summarized above. These feature are consistent with the Regional CAP. As such, the Project will not conflict with plans, policies and regulations pertaining to GHG's, therefore impacts would be considered ***less than significant***.

Mitigation Measures: None Required

IX. HAZARDS AND HAZARDOUS MATERIALS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard or excessive noise to the public or the environment?	☐	☐	☐	☒
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
g) Expose people or structures, either directly or indirectly, to significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☒

Environmental Setting

The Project Site is located within two miles of the Hanford Municipal Airport, a public facility to the south. The nearest school is located adjacent to the Project to the west, Hamilton Elementary. There are two gas stations located at the intersection of 10th Avenue and East Grangeville Boulevard.

The Department of Toxic Substances Control's (DTSC's) Envirostor database was used to identify any sites known to be associated with releases of hazardous materials or wastes within the Project area, in accordance with Government Code Section 65962.5. No sites were identified in the DTSC research on the subject Project. A Phase 1 Site Assessment Report was prepared by Paul Humphreys EP, August 2024, Appendix D.

Discussion

- a) **Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?**

Project construction activities may involve the use, storage, and transport of hazardous materials. During construction, the contractor will use fuel trucks to refuel onsite equipment and may use paints and solvents to a limited degree. The storage, transport, and use of these materials will comply with Local, State, and Federal regulatory requirements. There is the potential for small leaks due to refueling of construction equipment, however standard construction Best Management Practices (BMPs) included in the SWPPP will reduce the potential for the release of construction related fuels and other hazardous materials by controlling runoff from the Site and requiring proper disposal or recycling of hazardous materials. The residential uses do not normally result in transportation of hazardous materials, with the exception of residential or commercial cleaners, paint, etc. Future uses within the commercial area are conceptual and will require further review and approval by the City. Any use will be required to comply with Local, State and Federal requirements for the storage, transport and use of hazardous materials. The impact is considered *less than significant*.

Mitigation Measures: None Required

b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

A Phase 1 Assessment was prepared by Paul Humphrey, EP dated August 2024. The Phase 1 included a review of records, interviews and a site reconnaissance visit, full report can be found in Appendix D. The result of the Phase 1 assessment is that there is no evidence of recognized environmental conditions in connection with the Property. The investigation has revealed the following Business Environmental Risk (BER)s associated with the Project Site or nearby properties:

- The Subject Property is currently and was historically used for agricultural purposes. There is a potential that agricultural related chemicals such as pesticides, herbicides, and fertilizers, may have been used onsite. Based on Paul Humphrey, EP's experience, during previous site development activities, near surface soils (where residual agricultural chemical concentrations would have most likely been present, if at all) are likely generally mixed with fill material or disturbed during grading. Also, it is common that engineered fill material is placed over underlying soils as part of site development activities. These additional variables serve to further reduce the potential for exposure to residual agricultural chemicals (if any). Based on these reasons, Paul Humphrey, EP concludes that the possible use of agricultural chemicals is not expected to represent a significant environmental concern. If redevelopment activities for residential use are planned, it should be determined whether sampling relating to the former agricultural use is required by the local planning department or other applicable oversight agency.
- The Subject Property included one irrigation water well on the north northeast portion of the site along the north boundary. If the well is not to be used, the well should be properly destroyed in accordance with State and local guidelines.

A letter from DTSC was received in response to early consultation, found in Exhibit A. DTSC recommended two items be considered by the City and the City response:

1. When agricultural crops and/or land uses are proposed or rezoned for residential use, a number of contaminants of concern (COCs) can be present. The Lead Agency shall identify the amounts of Pesticides and Organochlorine Pesticides (OCPs) historically used on the property. If present, OCPs requiring further analysis are dichloro-diphenyl-trichloroethane, toxaphene, and dieldrin. Additionally, any level of arsenic present would require further analysis and sampling and must meet HHRA NOTE

NUMBER 3, DTSC-SLs approved thresholds. If they are not, remedial action must take place to mitigate them below those thresholds. Additional COCs may be found in mixing/loading/storage areas, drainage ditches, farmhouses, or any other outbuildings and should be sampled and analyzed. If smudge pots had been routinely utilized, additional sampling for Polycyclic Aromatic Hydrocarbons and/or Total Petroleum Hydrocarbons may be required.

Response:

As stated in the Phase 1, Paul Humphrey EP did not recommend further testing. Mr. Humphrey states "Based on Paul Humphrey, EP's experience, during previous site development activities, near surface soils (where residual agricultural chemical concentrations would have most likely been present, if at all) are likely generally mixed with fill material or disturbed during grading. Also, it is common that engineered fill material is placed over underlying soils as part of site development activities. These additional variables serve to further reduce the potential for exposure to residual agricultural chemicals (if any). Based on these reasons, Paul Humphrey, EP concludes that the possible use of agricultural chemicals is not expected to represent a significant environmental concern. If redevelopment activities for residential use are planned, it should be determined whether sampling relating to the former agricultural use is required by the local planning department or other applicable oversight agency." In consultation with City of Hanford staff, the City is not requiring sampling on land formerly under agricultural production.

2. DTSC recommends that all imported soil and fill material should be tested to assess any contaminants of concern meet screening levels as outlined in DTSC's Preliminary Endangerment Assessment (PEA) Guidance Manual.

No fill is anticipated to used for construction on the Project Site.

There is no reasonably foreseeable condition or incident involving the residential portion of the Project that could result in release of hazardous materials into the environment, other than any potential accidental releases of standard fuels, solvents, or chemicals encountered during typical construction of a residential subdivision and commercial development. Future potential commercial uses, including a gas station, within the commercial area will be reviewed by City staff for design and compliance with City, State and Federal standards for regulation of potential hazardous materials. Specifically, the gas station will be required to be designed to standards regulating gasoline storage and sales. Should an accidental hazardous release occur, existing regulations for handling hazardous materials require coordination with the California Department of Toxic Substances Control for an appropriate plan of action, which can include studies or testing to determine the nature and extent of contamination, as well as handling and proper disposal. Therefore, potential impacts are ***less than significant***.

Mitigation Measures: None Required

- c) **Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?**

The Project is located within one-quarter mile of an existing school, Hamilton Elementary. The Project, which is comprised of typical residential uses and 5.45 acres of future commercial uses, is not anticipated to include a use that will involve the use or storage of hazardous substances other than small amounts of pesticides, fertilizers, and cleaning agents required for normal maintenance of residential and commercial structures and landscaping. The proposed commercial area is not located within a one-quarter mile of a school. The Project would not emit hazardous emissions or involve the handling of acutely hazardous

materials or waste, therefore, impacts would be *less than significant*.

Mitigation Measures: None Required

- d) Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?**

The Project Site is not listed as a hazardous materials site pursuant to Government Code Section 65962.5. In addition, the Phase 1 Assessment Report, Appendix D, revealed no evidence of recognized environmental conditions in connection with the Property; therefore there is *no impact*.

Mitigation Measures: None Required

- e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?**

The proposed Project is not located within an airport land use plan, although it is located within two miles of a public airport. The closest airport is the Hanford Public Airport approximately 1.5 miles south of the Project Site. The proposed Project would not result in a safety hazard or excessive noise for people residing or working in the Project area, therefore there is *no impact*.

Mitigation Measures: None Required

- f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?**

The City's site plan review procedures, building permit and improvement plan check processes ensure compliance with the Hanford Safety Element and the Kings County 2023 Local Hazard Mitigation Plan. The Project will not interfere with any adopted emergency response and evacuation plans, therefore there is *no impact*.

Mitigation Measures: None Required

- g) Would the project expose people or structures, either directly or indirectly, to significant risk of loss, injury or death involving wildland fires?**

The land surrounding the Project Site is developed with urban uses and agricultural uses and are not considered to be wildlands or located within a fire hazard severity zone. The proposed Project would not expose people or structures to significant risk of loss, injury or death involving wildland fires, therefore there is *no impact*.

Mitigation Measures: None Required

X. HYDROLOGY AND WATER QUALITY

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise sustainably degrade surface or ground water quality?	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner, which would:	☐	☐	☒	☐
(i) result in substantial erosion or siltation on- or off-site?	☐	☐	☒	☐
(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?	☐	☐	☒	☐
(iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
(iv) impede or redirect flood flows?	☐	☐	☐	☒
d) In flood hazard, tsunami, or seiche zones risk the release of pollutants due to project inundation?	☐	☐	☒	☒
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater movement plan?	☐	☐	☒	☐

Environmental Setting

The Project Site is anticipated to be within the City Limits upon annexation and as such, will be required to connect to water, wastewater and stormwater services. The Project is located within the jurisdiction of the Central Valley Regional Water Quality Control Board (RWQCB). A Water Supply Assessment (WSA) was prepared by The Wallace Group dated January 2025, Appendix D, and is the analysis used for the impact assessment below.

Discussion

a) **Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?**

During construction, potential impacts on water quality arising from erosion and sedimentation are expected to be temporary conditions during the construction of the new development. Because the Project is greater than one acre in size, the development must prepare and have approved a Storm Water Pollution Prevention Plan (SWPPP) that specifies Best Management Practices (BMPs) to prevent construction pollutants from contacting stormwater to keep all erosion products from moving off-site and into receiving

waters during construction. In addition, prior to the commencement of construction activities, the development would be required to adhere to the requirements of the City of Hanford standards for grading and have an approved grading permit. The intention is to eliminate or reduce non-stormwater discharge to storm sewer systems and other waters of the United States. The Project includes an on-site temporary storm water basin that will be designed and approved by the City of Hanford to control stormwater runoff and erosion. Project-specific drainage improvements would reduce the proposed Project's potential to violate water quality standards during construction to a less than-significant impact. The proposed Project will not discharge to any surface or groundwater source. As such, the Project will not violate any water quality standards and will not impact waste discharge requirements, therefore impacts are determined to be *less than significant*.

Mitigation Measures: None Required

b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

The City of Hanford obtains its water supply solely from groundwater. According to the City of Hanford Urban Water Management Plan (2020) and the City's website, the City sources its water supply from groundwater through a network of 15 wells, 3.5 million gallons of storage tanks and has a capacity 34.5 million gallons per day. The estimated water demand for the proposed Project is 176-179 acre feet per year.

The Project Site is located within the Tulare Lake Subbasin of the San Joaquin Groundwater Basin. The Tulare Lake Subbasin is considered by DWR to be a high priority basin according to SGMA and in critical overdraft condition. The subbasin is collectively managed by three GSAs consisting of the East Kaweah GSA, the Mid-Kaweah GSA (MKGSA), and the Greater Kaweah GSA (GKGSA). The Project site is currently within the boundaries of the MKGSA. Each of the GSAs within the subbasin have developed a Groundwater Sustainability Plan (GSP) but collectively have determined a subbasin-wide sustainable yield of 660,000 acre-feet per year (AFY).

In accordance with Senate Bill 610, which supplements the California Water Code (CWC), a Water Supply Assessment (WSA) was prepared by The Wallace Group (January 2025), Appendix E. The projected water usage for the 356 single-family units and 302 multi-family units (Project scope has been reduced to 650, but the WSA used 658) was determined using two different methods to determine a range of water usage. The first method estimates indoor and outdoor water usage on a per dwelling unit basis (i.e., individual lot) with results of 161 acre feet per year. The assumptions were based on an occupancy of 2.96 persons per household, equal to the occupancy rate cited in the 2020 UWMP, and a demand of 50 gallons per capita per day (gpcd). California State Water Code Section 10608.20 uses a target indoor water demand factor of 55 gpcd as an option for agencies in complying with water conservation requirements which reduces to 42 gpcd by 2030; this analysis assumes 50 gpcd.

The second method used to estimate residential water demand, relies on a water duty demand factor from the 2017 Water System Master Plan (WSMP) based on land use type and acreage which provides an estimate of total water usage of 159 acre feet per year.

The 5.45 acre commercial is estimated to use 4.49 acre feet per year. Commercial water demands were estimated using the water duty demand factors from the Water System Master Plan (WSMP). Retail buildings are assumed to be regional commercial land usage, and food and convenience/gas buildings as

highway commercial.

The total estimated water demand for the Copper Ridge development is 176-179 acre feet per year, with system losses of 7.4% extrapolated from the reported losses in UWMP, using the total metered demand and system losses.

The UWMP outlines the current City limits and land use. The proposed Project is within the City's 2035 growth boundary. The predominantly low-density residential housing with commercial space is shown in a planned low- and medium-density residential zone. This growth area and corresponding land use were used in the 2017 WSMP as the basis for estimating future water demands, therefore, the City is actively planning for development in the area of proposed development and other areas within the growth boundary. The Project would be served by the City public water service, which relies on groundwater from the Lake Tulare subbasin. Water supply sufficiency is addressed in the City's 2020 UWMP which evaluates conditions under a single normal year, single dry year, and multiple dry years over a 20-year period. During the fifth year of a multiple dry year scenario, the Copper Ridge is expected to add up to 200 acre-feet of demand per year, which represents approximately 1.2% of the estimated 2045 water supply, indicating the Copper Ridge development will have a ***less than significant*** impact on the City's overall water supply.

Mitigation Measures: None Required

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner, which would:

i. Result in substantial erosion or siltation on- or off-site?

The proposed Project includes the construction and operation of residential homes and 5.45 acres of commercial development on formerly agricultural land. During construction, and in compliance with the Project's SWPPP, construction related erosion controls and BMPs would be implemented to reduce potential impact related to erosion and siltation. The BMPs would include, but are not limited to, covering and/or binding the soil surfaces to prevent soil from being detached and transported by water or wind and the use of barriers such as straw bales and sandbags to control sediment. The Project will increase impervious surface with the installation of paving of streets, concrete pads for homes and sidewalks. In order to adequately capture and discharge stormwater runoff, the Project streets, curb and gutter will be conditioned to be constructed to City standards. Improvement plans will be reviewed by City staff for approval prior to construction. This review and approval will result in impacts that are ***less than significant***.

ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?

The Project Site is relatively flat, and grading would be minimal and would not appreciably change because of grading activities. The Project would result in an increase in impervious surfaces that could significantly reduce the rate of percolation of stormwater at the site and would concentrate and accelerate surface runoff. However, as mentioned in Section (c)(i) above, the Project includes a storm drain basin of adequate size to facilitate all surface runoff generated by the Project's impervious surface, and would not result in surrounding properties being impacted by the Project's runoff. The Project will not result in the alteration to any stream or rivers. Therefore, the Project would have a ***less than significant impact***.

iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Please see response (a) through (c)(ii), above. The Project will increase demand on the City storm drain system. Such increases may have the potential for significant environmental impacts but can be mitigated to a less than significant level by the construction of an on-site storm basin sized to accommodate stormwater from the Project, as shown on the Copper Ridge Tentative Subdivision Map, Figure 7. and incorporating best management practices for storm runoff. The Project will be required to comply with all applicable State and City codes and regulations for stormwater drainage and runoff. No streams or rivers exist within the Project's vicinity that would result in substantial erosion or siltation on or offsite.

The Project would not substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or offsite, contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems, nor provide additional sources of polluted runoff.

Upon compliance with the State and City standards for the construction of stormwater basins and best management practices to manage runoff impacts would be *less than significant*.

iv. Impede or redirect flood flows?

The proposed Project is not located within the 100-year flood hazard area as mapped by the Federal Emergency Management Agency (FEMA). Therefore, the proposed Project would not impede or redirect potential flood flows, and the proposed Project would have *no impact*.

Mitigation Measures: None Required

d) Would the project, in flood hazard, tsunami, or seiche zones, risk the release of pollutants due to project inundation?

The proposed Project is not located in a flood hazard, tsunami or seiche zone. There are no rivers, reservoirs, ponds or lakes within the site. Since the Project is not located in an area that is susceptible to inundation, the Project would not risk release of pollutants due to Project inundation. As such, there is *no impact*.

Mitigation Measures: None Required

e) Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

The Project will not conflict with any water quality control plans or sustainable groundwater management Plan. Specifically it will be required to comply with the Mid Kings River Groundwater Sustainability Agency (MKRGSA) sustainability plan and City of Hanford policies in the Hanford Stormwater Drainage Plan. By conforming to all standards and policies as stated above, there will be *no impact* associated with the Project.

Mitigation Measures: None Required

XI. LAND USE AND PLANNING

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒

Environmental Setting

The proposed Project Site is located adjacent to the City limits of Hanford along the northeastern edge. The site is currently designated for low density and medium density residential by the City of Hanford General Plan. The Project application includes a request for annexation to the City, a general plan amendment to allow medium density residential and neighborhood mixed use and the corresponding zoning of RM and MX-N. The proposed Project includes a Planned Unit Development that will allow the proposed subdivision and meet the densities required in the General Plan.

Discussion

a) Would the project physically divide an established community?

The Project proposes the development of 650 residential units on approximately 78.16 acres and 5.45 acres of commercial land use. The Project does not include a physical feature such as a highway or railroad, that would physically divide a community by eliminating access. As such, the Project would not act as a physical barrier within a community, therefore there is ***no impact***.

Mitigation Measures: None Required

b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

The Project's current land use designation is a mix of Low Density and Medium Density Residential in the General Plan. The Project includes a change from the Low to Medium density to increase the Medium density area and add 5.45 acres of Mixed Use Neighborhood Commercial with an application for a Planned Unit Development (PUD) to allow the variety of lot sizes, while still meeting the densities in the General Plan. The Project will create 650 units on 78.16 acres, which is a density of 8.32 units per acre, which is consistent with the Land Use Element of the General Plan, as amended, and is also within the current allowed densities of Low Density 2 to 10 units per acre and Medium Density 7 to 20 units per acre. The general plan amendment to change from Low Density to Medium Density is also in conformance to the policies pertaining to the East Side Area in the General Plan that state higher densities are to be encouraged. The change to allow the Mixed-Use Neighborhood Commercial is also supported by the following policies in the General Plan pertaining to providing neighborhood type commercial close to neighborhoods as listed below:

3.6 Mixed Land Use

The intent of the mixed-use land use designations is to provide for a mixture of stores, services, restaurants, offices, and homes (dwelling units) in close proximity, thereby allowing residents to work and shop close to home and reduce the length and frequency of trips between home, work, shopping, and services. This contributes to opportunities to increase the use of public transit, reduce auto dependency, provide a wider range of housing choices, and promote activity during more hours of the day. Both vertical and horizontal mixed-use developments are encouraged in the mixed use designations. The Hanford Zoning Ordinance provides the enforcement mechanism to implement the identified policies.

Goal L15: More opportunities for mixed use projects.

Goal L16: A mix of land uses, vertical, horizontal or both, at appropriate locations in the city.

Goal L17: A mixture of commercial shopping and services with multi-family residential dwellings in a vibrant, walkable environment.

Goal L18: Opportunities to design land uses that meet people's residential and shopping needs while reducing reliance on automobiles.

3.6.1 Neighborhood Mixed Use

Policy L60 Purpose of Neighborhood Mixed Use Land Use Designation Establish the Neighborhood Mixed Use land use designation to promote mixed-use commercial and multifamily residential areas that allow walking to and between the mix of uses. New development may be oriented towards an existing public street or a new street or civic space within the development site.

Policy L61 Typical Uses in Neighborhood Mixed Use Land Use Designation Define the uses allowed in the Neighborhood Mixed Use land use designation to include multi-family dwellings along with businesses providing day-to-day goods and services for the surrounding and nearby residential neighborhoods. Commercial uses that would primarily serve a citywide or regional market area shall not be allowed. Typical uses include duplexes, townhomes, apartments, markets, small retail shops, eating establishments, service stations, convenience stores, dry cleaning and laundry services, beauty salons, and other similar uses. Both vertical and horizontal mixed-use developments are encouraged.

Policy L62 Design of Neighborhood Mixed Use Land Use Designation Require that new development projects and major site reconfigurations in the Neighborhood Mixed Use land use designation provide site layouts, buildings, landscaping, walkways, and signage that are oriented primarily to the pedestrian. Require pedestrian access between residential and commercial uses and prohibit parking areas, walls, and landscaping in locations on the site that block or hinder pedestrian access. The maximum residential density permitted in a horizontal mixed use development is fifteen (15) dwelling units per acre.

Policy L63 Location and Size of Neighborhood Mixed Use Land Use Designation Locate Neighborhood Mixed Use land use designations on eight (8) to twenty-five (25) acres at roughly one-mile intervals on one corner of an intersection of an arterial street and an arterial or collector street. This land designation takes the place of the Neighborhood Commercial land use designation on some corners.

Policy L155 Eastside Higher Density Residential Uses Support the development of higher density residential uses in close proximity to the Grangeville Boulevard corridor and the gradual transition to lower density, single-family residential uses as distance from the Arterial road increases.

Policy L156 Eastside Development along Grangeville Boulevard Discourage "strip" development along

Grangeville Boulevard from an overall community development perspective. Develop design policies and regulations that identify a minimum percentage of street-facing building facades and minimize the exposure of parking and masonry walls along the street.

The proposed Project, including the proposed general plan amendment, does not conflict with any applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. There is ***no impact***.

Mitigation Measures: None Required

XII. MINERAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally - important mineral resource recovery site delineated on a local general plan, specific plan or other lands use plan?	☐	☐	☐	☒

Environmental Setting

According to the Hanford 2035 General Plan Background Report, the only significant mineral commodities that have been found within the Hanford Planning Area are sand and gravel for road and building construction. At this time there are no known significant deposits, and no active mines.

Discussion

- a) **Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?**

The Project Site has no known mineral resources that would be of value to the region and the residents of the state, therefore the proposed Project would not result in the loss of regionally or locally important mineral resources. Therefore, there is ***no impact***.

Mitigation Measures: None Required

- b) **Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other lands use plan?**

There are no known mineral resources of importance to the region and the Project Site is not designated under the City's General Plan as an important mineral resource recovery site, therefore there is ***no impact***.

Mitigation Measures: None Required

XIII. NOISE

Would the project result in:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Generation of a substantial temporary or permeant increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b) Generation of excessive ground-borne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or, an airport land use plan or, where such a plan has not been adopted, within two miles of public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

Environmental Setting

Noise is often described as unwanted sound. It consists of any sound that may produce physiological or psychological damage and/or interfere with human communication, work, rest, recreation, and sleep. Noise has become an environmental pollutant that threatens quality of life. Extreme levels of noise can cause pain and hearing loss. In addition, continuous exposure to noise pollution is associated with hypertension, increased blood pressure, impaired reading comprehension and long term memory in children.

Vibration is seismic waves that radiate along the surface of the earth and downward into the earth. The operation of heavy construction equipment, particularly pile driving and other impact devices such as pavement breakers create this vibration.

Principal noise sources in the City of Hanford include traffic on major roadways, including State Route 198, and railroad noise. In the Project area, the primary noise is from traffic noise and rail noise from the Union Pacific (UP) railroad to the south, although it is infrequently used. Other potential noise sources are related to the ag uses to the east, north and south.

The closest noise sensitive receptors are the school and the residents of the single-family residential properties to the west.

Discussion

- a) Would the project result in generation of a substantial temporary or permeant increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?**

Project construction is anticipated to be in phases over the course of four to five years and will involve temporary noise sources. Typical construction noise will come from graders, tractors, trenchers and excavators. Construction noise from the home building will contribute to the noise environment of

the homes and school to the west. The City Municipal Code does not contain specific noise standards for motor vehicles and other noise sources; however, the General Plan contains guidelines that limit exterior noise levels for residential and schools to 60 – 70 dBA CNEL. The Hanford Municipal Code (HMC) Section 9.10.060(A)(10) does limit construction noise to between the hours of 7:00 a.m. and 8:00 p.m. The Project construction will be required to limit construction noise to these hours.

Operational noise from both the residential and commercial will primarily be from vehicles traveling along Grangeville Boulevard, 9 ¼ Avenue, Leland Way and 9th Avenue, as well as the internal circulation within the subdivision. Although the uses within the commercial development have not been determined, it is anticipated that new noise will be generated from vehicles, potential drive-throughs and loudspeakers. Noise will be required to comply with HMC Section 9.10 pertaining to Loud or Annoying Noise, including hours of operations for noise generating activities.

Because noise generated from construction would be temporary and operational noise from both the residential and the commercial site would be required to comply with HMC Section 9.10, impacts are determined to be *less than significant*.

Mitigation Measures: None Required

b) Would the project result in generation of excessive ground-borne vibration or groundborne noise levels?

Construction vibration impacts include human annoyance and building structural damage. Human annoyance occurs when construction vibration rises significantly above the threshold of perception. Building damage can take the form of cosmetic or structural. Table 13-1, below, shows the typical vibration levels produced by construction equipment.

Table 13.1 Typical Vibration Levels Typical Equipment

	Peak Particle Velocity (inches/second) at 25 feet	Approximate Vibration Level (LV) at 25 feet
Large Bulldozer	0.089	87
Loaded Trucks	0.076	86
Small Bulldozer	0.003	58
Auger/Drill Rig	0.089	87
Jackhammer	0.0.35	79
Vibratory Compactor/roller	0.210	94

Source: Transit Noise and Vibration Impact Assessment, Federal Transit Administration

The primary vibration-generating activities associated with the proposed Project would occur when grading of the site is conducted, and when infrastructure such as utilities, and foundations are constructed. Operating cycles for the types of construction equipment used during construction may involve one or two minutes of full power operation followed by three or four minutes at lower power settings. Other primary sources of acoustical disturbance would be due to random incidents, which would last less than one minute (such as dropping large pieces of equipment or the hydraulic movement of machinery lifts). These estimations of noise levels take into account the distance to the receptor, attenuation from molecular absorption and anomalous excess attenuation.

While there is a school and residences to the west of the proposed Project, vibratory compactors/rollers would be used only on a limited and intermittent basis during compaction, and

would be moving throughout the site, instead of stationary or operated long-term in the same location to the extent it would damage buildings due to longer-term extended use. Therefore, this would be considered a ***less than significant impact***.

Mitigation Measures: None Required

- c) **For a project located within the vicinity of a private airstrip or, an airport land use plan or, where such a plan has not been adopted, within two miles of public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?**

According to the Kings County Airport Land Use Plan, the Project Site is not located in an airport land use plan. The Project Site is approximately one mile from the public airport, but is outside the anticipated noise contours as shown on the Airport Compatibility Zone Map in the General Plan Background Report, therefore there is ***no impact***.

Mitigation Measures: None Required

XIV. POPULATION AND HOUSING

Would the project:	Potentially Significant Impact	Less than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by new homes and businesses) or indirectly (forexample, through extension of roads or other infrastructure)?	☐	☐	☒	☐
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

Environmental Setting

The United States 2020 Census determined the Hanford population to be 58,997 in 2020 and estimates the current population to be 59,938 based on most recent projections. The average household size, as determined in the census was 3.08 persons.

Discussion

- a) **Would the project induce substantial unplanned population growth in an area, either directly (for example by new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?**

The Project proposes to construct 650 new residential units in a mix of single family and multiple family units. The United States 2023 Census estimate states that the City's average household size is 3.08 persons. Based on this average household size, the anticipated population increase as a result of the proposed Project is 2,002 persons. This would be an increase of 3.3 percent beyond existing conditions.

The construction of housing at this location would not be unplanned, as the City's General Plan designates the proposed Project Site for residential development and the potential population increase was evaluated in the associated General Plan EIR. Although the Project includes a General Plan Amendment to change from Low Density Residential to Medium Density Residential, the proposed density of 8.5 units per acre is within the density range of the Low Density Residential of 2-10 units per acre, within the range contemplated in the 2035 General Plan and associated EIR. The City 2024-2032 Housing Element identified the following goal and policies for housing in the City of Hanford:

GOAL 2. Facilitate and encourage the provision of a range of housing types and prices to meet the diverse needs of residents.

Policy 2.1. Provide adequate sites for housing through appropriate land use, zoning and development standards to accommodate the regional housing needs for the current planning period.

Policy 2.3. Ensure the adequate provision of water, sewer, roads, public facilities, and other infrastructure necessary to serve new housing.

Policy 2.4. Support the construction of high quality single and multi-family housing which is well designed and energy efficient.

The Project would not induce substantial unplanned population growth directly or indirectly, therefore impacts are considered to be ***less than significant***.

Mitigation Measures: None Required

b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

The proposed Project Site is undeveloped and does not involve the removal of housing or displacement of people, therefore there is ***no impact***.

Mitigation Measures: None Required

XV. PUBLIC SERVICES

Would the Project:	Potentially Significant Impact	Less than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable serve ratios, response times of other performance objectives for any of the public services:				
a. Fire protection?	☐	☐	☒	☐
b. Police protection?	☐	☐	☒	☐
c. Schools?	☐	☐	☒	☐
d. Parks?	☐	☐	☒	☐
e. Other public facilities?	☐	☐	☒	☐

Environmental Setting

Fire: The Project Site will be served by the City of Hanford Fire Department.

Police: The City of Hanford Police Department will provide law enforcement services to the proposed Project Site.

Schools: The proposed Project Site is located within the Hanford Elementary School District and the Hanford Joint Union High School District. Students will attend Hamilton Elementary and Hanford High School. The closest school being Hamilton Elementary located across the street from the Project to the west. Funding for schools is outlined in Education Code Section 17620 and Government Code Section 65995 et. Seq., which governs the amount of fees that can be levied against new development. These fees are used to construct new or expanded school facilities. Payment of fees authorized by the statute is deemed “full and complete mitigation.”

Parks: The closest park is located directly across the street to the west, Freedom Park. A new park, Heros Park, is in the planning stages and will be located within one mile to the southeast.

Discussion

a) **Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable serve ratios, response times of other performance objectives for any of the public services:**

a. Fire protection?

The City of Hanford Fire Department will provide fire protection services to the proposed development. The nearest Fire station is located at 350 W Grangeville Boulevard, approximately 1.3 miles west of the proposed Project. The addition of 650 residential units and 5.45 acres of commercial development will increase the demand for fire protection services. The need for new fire service facilities is assessed as the City continues to grow and develop within the growth boundary in the City's General Plan. The development of 650 residential units and the commercial development alone will not require the alteration of existing or construction of new fire services facilities, but would contribute to the cumulative need for increased fire protection services. The increase in service demand will be compensated by the payment of a fire development impact fee. Payment of the impact fee is considered mitigation and payment of the Project's fair share contribution towards cumulative increases in demand for fire protection services.

The timing of when new fire service facilities would be required or details about size and location cannot be known until such facilities are planned and proposed, and any attempt to analyze impacts to a potential future facility would be speculative. As new or expanded fire service facilities become necessary, construction or expansion Projects would be subject to their own separate CEQA review in order to identify and mitigate any potential environmental impacts. Therefore, impacts resulting from the proposed Project would be **less than significant**.

Mitigation Measures: None Required

b. Police protection?

The Hanford Police Department will provide services to the proposed development. The Hanford Police Department is located at 425 N. Irwin in downtown Hanford. The addition of 650 residential units and 5.45 acres of commercial development will increase the demand for police protection services. The need for new police service facilities is assessed as the City continues to grow and develop within the growth boundary in the City's General Plan. The development of 650 residential units and the commercial development alone will not require the alteration of existing or construction of new police services facilities, but would contribute to the cumulative need for increased police protection services. The increase in service demand will be compensated by the payment of a police development impact fee. Payment of the impact fee is considered mitigation and payment of the Project's fair share contribution towards cumulative increases in demand for police protection services.

The timing of when new police service facilities would be required or details about size and location cannot be known until such facilities are planned and proposed, and any attempt to analyze impacts to a potential future facility would be speculative. As new or expanded police service facilities become necessary, construction or expansion Projects would be subject to their own separate CEQA review in order to identify and mitigate any potential environmental impacts. Therefore, impacts resulting from the proposed Project would be **less than significant**.

Mitigation Measures: None Required

c. Schools?

Since the proposed Project includes the addition of 650 residential units, the number of students in the school district will increase. The Project will pay school development impact fees to the school districts at the time of building permit issuance in compliance with Education Code Section 17620 and Government Code Section 65995 et. Seq.. These fees are used to construct new or expanded school

facilities. Payment of fees authorized by the statute is deemed “full and complete mitigation” therefore impact will be *less than significant*.

Mitigation Measures: None Required

d. Parks?

The addition of 650 new residential units would result in more use at existing parks. The Project is located adjacent to Freedom Park, west of the Project and within one-half mile to the new Heros Park currently in the planning phase. The Project will also pay the park development impact fee of \$3,192 for single family residential and \$3,096 for multiple family dwelling units. Since the Project would contribute its fair share to parks facilities through payment of in-lieu fees, the impact *is less than significant*.

Mitigation Measures: None Required

e. Other public facilities?

The Project is within the planning area anticipated in the Hanford General Plan and as such would not result in increased demand for, or impacts on, other public facilities that were not anticipated. In addition, the Project will also pay development impact fees to support library, public health etc. to Kings County, therefore impacts are considered *less than significant*.

Mitigation Measures: None Required

XVI. PARKS AND RECREATION

Would the project:	Potentially Significant Impact	Less than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☒	☐
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒

Environmental Setting

The closest City park is Freedom Park, located directly west of the Project Site. The Project is also within one half mile of the future Heros Park currently in the planning phases. According to the City of Hanford 2019 Park and Recreation Master Plan, the City had 299.7 acres of developed park acreage, which was 5.06 acres per 1,000 residents. The City has added 8.9 acres since 2019 for a total of 308.6. Based on the current population estimate of 59,938 persons, the City has 5.14 acres of park space per 1,000 persons. The General Plan identified a goal of 3.5 acres per 1,000. The City will be adding additional park space by expanding Hidden Valley Park and Heros Park.

Discussion

- a) **Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?**

Implementation of the proposed Project would result in increased use of existing parks and other recreational facilities, however the Project would contribute its fair share to parks facilities through the payment of park development impact fees, which is intended to be used to provide additional community park acreage, such as Heros Park and Hidden Valley Park expansion in the City; therefore the impact is ***less than significant***.

Mitigation Measures: None Required

- b) **Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?**

The Project does not include any recreational facilities, therefore there will be ***no impact***.

Mitigation Measures: None Required

XVII. TRANSPORTATION

Would the project:	Potentially Significant Impact	Less than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☐	☒	☐
b) Conflict or be inconsistent with the CEQA guidelines Section 15064.3, Subdivision (B)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☐	☒
d) Result in inadequate emergency access?	☐	☐	☐	☒

Environmental Setting

The proposed Project is located at the northeast corner of Grangeville Boulevard and 9 ¼ streets. A traffic study was prepared to review impacts to traffic intersections and segments as well as Vehicle Mile Traveled (VMT), Appendix H.

Vehicular Access: Vehicular access to the Project will be to 9 ¼ Avenue, Leland Way, future 9th Avenue and Grangeville Boulevard. The Project has been designed to provide connection to the surrounding arterial and collector streets.

Pedestrian and Cyclist Connectivity: The Project will install sidewalks along all arterial and collector streets as well internal local streets in accordance with City development standards. City staff has stated that future 9 1/4 Avenue will have a Class 3 Bike Lane.

Discussion

a) Would the project conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

The Project consists of the construction of 650 single family and multiple family residential units as well as on-site circulation-related infrastructure improvements, including new local residential streets. A Traffic Study was prepared by C2 Consulting, December 2024, Appendix G. The City requested that the following intersections be studied as part of the traffic study.

- 1) Grangeville Blvd.at 10 Avenue
- 2) Grangeville Blvd.at 9 ¼ Avenue
- 3) Grangeville Blvd.at SR 43
- 4) 9 ¼ Avenue at Florinda Street
- 5) 9 ¼ Avenue at Leland Way

The TIS included a Level of Service (LOS) analysis for the following scenarios:

- 1) Existing
- 2) Existing plus the Copper River Project
- 3) Existing plus the Copper River Project (mitigated, if necessary)

Level of Service Standard The City of Hanford's Transportation Element Policy T29 set's the maximum Level of Service at "E" on streets and intersections within the area bounded by Highway 198, 10th Avenue, 11th Avenue, and Florinda Avenue, inclusive of these streets. The City has set a peak hour Level of Service of "D" on all other streets and intersections with the Planned Growth Boundary.

New trips generated by the Copper Ridge Project were estimated using the Institute of Transportation Engineer's (ITE) Trip Generation Manual. This publication provides average rates of trip generation for different land uses and relates these to dwelling units (residential) and square footages (fast food and retail shops). It should be noted that for the proposed minimart, the trip generation was computed from an estimated 16 gas pumps as depicted on the site plan layout. Trip generation rates are provided for weekdays along with the proportion of trips that are inbound or outbound from the development. The resulting Project trip generation is 862 trips in the AM peak hour and 1,079 trips in the PM peak hour. The Copper Ridge Project is estimated to generate a total of 12,091 daily trips.

Utilizing the ITE trip manual, pass by trips were estimated, which resulted in the final Project trip generation of 549 in the AM and 717 in the PM. The LOS for all intersections was calculated for Existing plus Project as shown below in Table 17.1. As illustrated below, all intersections are calculated to operate above the City's LOS minimum of "D" therefore no mitigations are required and impacts are considered *less than significant*.

Table 17.1 Existing Conditions PLUS Project
Level of Service

Intersection	AM Peak Hour		PM Peak Hour	
	Vehicle Delay	LOS	Vehicle Delay	LOS
Grangeville Blvd.at 10th Ave	25.0	C	23.0	C
Grangeville Blvd.at 9 ¼th Ave	25.9	C	24.5	C
Grangeville Blvd.at SR 43	10.9	B	13.6	B
9 ¼ Ave at Florinda St				
Northbound approach	8.2	A	7.9	A
Eastbound approach	13.1	B	11.6	B
9 ¼ Ave at Leland Way				
Westbound approach	7.8	A	7.5	A
Northbound approach	11.6	B	10,5	B

Mitigation Measures: None Required

b) Would the project conflict or be inconsistent with CEQA Guidelines Section 15064.3, Subdivision (b)?

The City adopted the City of Hanford VMT Thresholds and Implementation Guidelines (VMT Guidelines), dated November 2022. Based on the VMT Guidelines, an analysis was prepared by LSA Associates, January 2025. The analysis was based on the Project being a mixed use Project. Individual land use components were analyzed separately for purposes of the VMT analysis. The Project VMT analysis has been conducted based on the current Project description. The estimated 37,700 square feet of retail/commercial component of the Project could be screened out using the 55,000 square foot screening criteria for retail projects. However, the residential components of the Project don't meet any of the screening criteria identified in the VMT Guidelines. The VMT Guidelines further recommend that for projects/components of a project that could not be screened out using the project screening criteria, a detailed VMT analysis should be conducted using the methodology and significant threshold criteria identified in it.

Utilizing the Kings County Association of Governments (KCAG) modeling for VMT, the threshold for VMT is 8.99 miles. The result of the model is that the Project will have a VMT of 8.98, lower than the threshold. As the VMT per capita for residential component of the Project is lower than the regional threshold, based on the VMT analysis, the residential component will not have any significant VMT impact. Since all the components of the Project could be either screened out or would have a less than significant VMT impact, the entire Project will have a *less than significant* impact.

Mitigation Measures: None Required

c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

No geometric design feature associated with the Project would pose a hazard to the public and there would be no incompatible uses. The design of the City circulation system is required to comply with City standards and approved by the City Engineering Division, therefore there is *no impact*.

Mitigation Measures: None Required

d) Would the project result in inadequate emergency access?

The proposed Project will not result in inadequate emergency access. Emergency access to the site will be from all surrounding major roadways into the development. City staff has evaluated each phase of development and determined that each phase will have at least two access points to a collector or arterial and have adequate access. A minimum of two access points provide emergency access consistent with City standards, which have been reviewed by the City's Fire Department. Therefore, there is *no impact*.

Mitigation Measures: None Required

XVIII. TRIBAL CULTURAL RESOURCES

Would the project: Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	☐	☒	☐	☐
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☒	☐	☐

Environmental Setting

A Tribal Cultural Resource (TCR) is defined under Public Resources Code Section 21074 as a site, place, cultural landscape that is geographically defined in terms of size and scope, sacred place and object with cultural value to a California Native American tribe that are either included and that is listed or eligible for inclusion in the California Register of Historic Resources or in a local register of historical resources, or if the City of Hanford, acting as the Lead Agency, supported by substantial evidence, chooses at its discretion to treat the resource as a TCR.

California Native American tribes traditional and culturally affiliated with the Project Site and area were notified in accordance with AB 52 and SB 18 on December 4, 2024. A list of Native American Tribes was obtained from the Native American Heritage Commission (NAHC) which included the following tribes:

- Kitanemuk & Yowlumne Tejon Indians
- Santa Rosa Rancheria Tachi Yokut Tribe
- Table Mountain Rancheria
- Tule River Indian Tribe
- Wuksachi Indian Tribe/Eshom Valley Band

No responses have been received to date.

Definitions

- **Historical Resources:** Historical resources are defined by CEQA as resources that are listed in or eligible for the California Register of Historical Resources, resources that are listed in a local historical resource register, or resources that are otherwise determined to be historical under California Public Resources Code Section 21084.1 or California Code of Regulations Section 15064.5. Under these

definitions Historical Resources can include archaeological resources, Tribal cultural resources, and Paleontological Resources.

- **Archaeological Resources:** As stated above, archaeological resources may be considered historical resources. If they do not meet the qualifications under the California Public Resources Code 21084.1 or California Code of Regulations Section 15064.5, they are instead determined to be “unique” as defined by the CEQA Statute Section 21083.2. A unique archaeological resource is an artifact, object, or site that: (1) contains information (for which there is a demonstrable public interest) needed to answer important scientific research questions; (2) has a special and particular quality, such as being the oldest of its type or the best available example of its type; or (3) is directly associated with a scientifically recognized important prehistoric or historic event or person.
- **Tribal Cultural Resource (TCR):** Tribal Cultural Resources can include site features, places, cultural landscapes, sacred places, or objects, which are of cultural value to a Tribe. It is either listed on or eligible for the CA Historic Register or a local historic register, or determined by the lead agency to be treated as TCR.
- **Paleontological Resources:** For the purposes of this section, “paleontological resources” refers to the fossilized plant and animal remains of prehistoric species. Paleontological Resources are a limited scientific and educational resource and are valued for the information they yield about the history of the earth and its ecology. Fossilized remains, such as bones, teeth, shells, and leaves, are found in geologic deposits (i.e., rock formations). Paleontological resources generally include the geologic formations and localities in which the fossils are collected.

Discussion

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

- a) **Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or**

A Cultural Resources Assessment was prepared by Taylored Archaeology dated November 24, 2024, Appendix D. As stated in the assessment, the Project would not cause a substantial adverse change in the significance of a tribal cultural resource, nor is it listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources. As part of the assessment, a records search was completed by the Southern San Joaquin Valley Information Center. Based on the results of the records search, no previously recorded tribal cultural resources are located within the Project Site. Although no historical resources were identified and the presence of remains are not anticipated, cultural resources under the ground surface are possible. The Cultural Resources Assessment included a recommendation for two mitigations previously listed under Cultural Resources, CUL 1 and CUL 2. The City and the Santa Rosa Rancheria Tachi Yokut Tribe have also agreed to an additional mitigation measure that requires the developer/owner to agree to a burial treatment plan prior to any ground disturbing activities. Mitigation Measures CUL-1, CUL-2 and CUL 3 will ensure that impacts will be **less than significant with mitigation**.

Mitigation Measures:

Implementation of CUL 1, CUL 2 and CUL 3

- b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.**

The lead agency has not determined there to be any known cultural resource on the Project Site that would meet the criteria in subdivision (c) of Public Resources Code Section 5024.1 therefore there is no impact. If a resource is discovered, the implementation of Mitigation Measures CUL 1, CUL 2 and CUP 3 previously listed under Cultural Resources will ensure that any impacts will be **less than significant**.

Mitigation Measures: Implementation of CUL 1 , CUL 2 and CUL 3.

XIX. UTILITIES AND SERVICE SYSTEMS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

The proposed Project will be required to connect to water, solid waste and wastewater services.

Water

The City of Hanford's water supply system is a groundwater system. The city is located within the Tulare Lake Hydrologic Region is within the Tulare Lake Groundwater Subbasin which transmits, filters, and stores water from the main San Joaquin Valley Groundwater Basin. The system consists of 15 groundwater wells, three storage reservoirs, distribution mains, and fire hydrants. The system does not use surface water.

Solid Waste

Solid waste in the city is collected by a private contractor, Kings Waste Recycling Authority (KWRA). Refuse is sorted at the KWRA facility to recover recyclable materials before being hauled to the landfills in Kettleman Hills. For single-family residential customers, the City has instituted a green waste collection mixed recycle collection program.

Wastewater

The City of Hanford wastewater system provides for the treatment, disposal, and reuse of effluent, which meets all of the state's discharge requirements for the city. The wastewater system consists of a treatment plant and 21 sanitary sewer lift stations located throughout the city. The treatment facility has a capacity of 8 million gallons per day and is located south of Houston Avenue and East of 11th Avenue. The City's wastewater

system also pursues water conservation strategies to ensure the long-term reuse of treated disinfected wastewater to reduce the need for groundwater.

Discussion

- a) **Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relation of which could cause significant environmental effects?**

The City provides water, wastewater and stormwater services to the community. The proposed Project would result in new water services connecting to an existing City water line located in 9th Avenue adjacent to the Project. Sewer service will be provided from an existing main trunk line located in 9th Avenue, south of the Project. Storm drain services will be provided by a permanent storm basin that will be located on-site. The proposed Project does not include a change in land use designation that would result in a significant increase or change in water, wastewater and stormwater services than planned in the 2035 General Plan or the City infrastructure master plans.

Southern California Edison provides electric service to the City. Natural gas service is primarily provided by the Southern California Gas Company. There are three major companies that provide communications services: AT&T, Sprint, and Verizon. Comcast is the primary cable television and internet provider in Kings County. With the Project, new service for all utilities will be constructed into the proposed subdivision. It is not anticipated that implementation of the proposed Project would result in increased demand for any utility services beyond the planned conditions. Impacts are therefore considered *less than significant*.

Mitigation Measures: None Required

- b) **Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?**

See discussion in Section 4.10 Hydrology and Water Quality. As stated in the Water Supply Assessment (see Appendix F), the City has sufficient water supply to service the Project, therefore impacts are considered *less than significant*.

Mitigation Measures: None Required

- c) **Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?**

Wastewater generated by the Project would be collected and treated at the City's domestic Wastewater Treatment Facilities (WWTF). Although the proposed Project will increase in wastewater generation due to the addition of 650 residential units and the commercial site, commercial and residential development at the Project Site has been planned and accounted for in the City's infrastructure planning documents. City staff has determined that the wastewater produced would not exceed the City's WWTF capacity, therefore, the impact is *less than significant*.

Mitigation Measures: None Required

d) Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Disposal services are provided within the City limits by the City of Hanford Refuse Division. The Project will result in the generation of additional solid waste typical of residential and commercial uses. It has been determined by City staff that the City has the capacity to serve the Project Site and the proposed uses. Because the City's existing infrastructure has the capacity to accommodate the solid waste currently planned in the General Plan for expanded population, it can be inferred that the existing solid waste infrastructure has adequate capacity to serve the proposed Project. The Project would not generate solid waste in excess of State or Local Standards and there is ***no impact***.

Mitigation Measures: None Required

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

See d. above. This proposed Project conforms to all applicable statutes and regulations related to solid waste disposal. The proposed Project will comply with the adopted policies related to solid waste, and will comply with all applicable federal, state, and local statutes and regulations pertaining to disposal of solid waste, including recycling. Therefore, the proposed Project would have ***no impact***.

Mitigation Measures: None Required

XX. WILDFIRE

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

Regulatory Setting

a), b), c), d): According to the Kings County Multi-Jurisdictional Hazard Mitigation Plan, the City of Hanford is not at high risk for Wildfires and the City is not in a State responsibility area or classified as a Fire Hazard Severity Zone, as shown on the Kings County Federal, State, and Local Responsibility Severity Zones Map for Kings County. The Project would not substantially impair an adopted emergency response plan or emergency evacuation plan. The Project has been reviewed by the City of Hanford Fire Department to ensure the Project does not impair emergency response or emergency evacuation. As such there is **no impact** to wildfire risk from the Project.

Mitigation Measures: None Required

XXI. MANDATORY FINDINGS OF SIGNIFICANCE

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Does the project have the potential substantially to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☒	☐	☐
c) Does the project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☒	☐

Discussion

- a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

The initial study contains analysis of environmental issues that indicate that the proposed Project is not expected to have substantial impact on the environment or on any resources identified in the Initial Study. Mitigation measures have been incorporated to reduce potential impacts to sensitive biological species and to cultural resources. Implementing these mitigation measures will ensure impacts are ***less than significant with mitigation***.

- b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

CEQA Guidelines Section 15064(h) states that a Lead Agency shall consider whether the cumulative impact of a Project is significant and whether the effects of the Project are cumulatively considerable. The significance of the cumulative effects of a Project must, therefore, be assessed in connection with the effects of past projects, other current projects, and probable future projects.

As described in the impact analyses in sections of this IS/MND, any potentially significant impacts of the Project would be reduced to a less-than-significant level following incorporation of the mitigation measures. A review of major projects found of the City of Hanford website show that all major projects are planned on the west and northwest areas of Hanford. It does not appear that there are any projects within the vicinity, with exception of the future Heros Park. Any future projects in the vicinity of the Project Site would be subject to review in separate environmental documents and required to conform to the General Plan and the Hanford Municipal Code.

As currently designed and with compliance with the recommended mitigation measures, the proposed Project would not be cumulative. Thus, the cumulative impacts of past, present, and reasonably foreseeable future projects would be less than cumulatively considerable. Impacts would be **less than significant with mitigation**.

c) Does the project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?

The Initial Study analysis indicates that the Project is not expected to have substantial impact on human beings, either directly or indirectly. Mitigation measures have been incorporated in the Biological Resources, Cultural Resources, Cultural Tribal Resources to reduce potential impacts.

As such, implementation will not cause direct or indirect substantial adverse effects on human beings, impacts are **less than significant**.

Mitigation Measures:

Mitigation Measure BIO 1 (Construction Timing). If feasible, future construction activities will take place entirely outside of the avian nesting season, defined as February 1 to August 31.

Mitigation Measure BIO 2 (Preconstruction Surveys). If construction must occur between February 1 and August 31, a qualified biologist will conduct surveys for active bird nests within 7 days prior to the start of work during this period. The survey area will encompass the site and accessible surrounding lands within ¼ mile for nesting Swainson's hawks, 500 feet for other nesting raptors, 300 feet for the tricolored blackbird, and 250 feet for other nesting birds.

Mitigation Measure BIO 3 (Avoidance of Active Nests). Should any active nests be discovered in or near proposed construction zones, the biologist will identify a suitable construction-free buffer around the nest. This buffer will be identified on the ground with flagging or fencing and will be maintained until the biologist has determined that the young have fledged and are capable of foraging independently.

Mitigation Measure CUL-1: In the event of accidental discovery of unidentified archaeological remains during development or ground disturbing activities in the Project area, all work shall be halted in immediate vicinity (within a 100-foot radius) until a qualified archaeologist can identify the discovery and assess its significance.

Mitigation Measure CUL 2: If human remains are uncovered during construction, work shall be halted, and the Kings County Coroner is to be notified to investigate the remains and arrange proper treatment and disposition. If the remains are identified on the basis of archaeological context, age, cultural associations, or biological traits to be those of a Native American, California Health and Safety Code 7050.5 and California Public Resources Code 5097.98 require that the coroner notify the Native American Heritage Commission (NAHC) within 24 hours of discovery. The NAHC will then identify the Most Likely Descendent who will make recommendations regarding the treatment and disposition of the remains.

Mitigation Measure CUL 3 A burial Treatment Plan shall be entered into by the Project applicant/property owner prior to any ground disturbing activities.

LIST OF PREPARERS

DR Mata Consulting

Padre and Associates (Air Quality)

Live Oak Associates (Biology)

Taylorred Archaeology (Cultural)

Paul Humphry (Hazards)

C2 Consulting (Traffic)

LSA (VMT)

Wallace Group (Water)

MITIGATION MONITORING AND REPORTING PROGRAM

As required by Public Resources Code Section 21081.6, subd. (a)(1), a Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the Project in order to monitor the implementation of the mitigation measures that have been adopted for the Project. This Mitigation Monitoring and Reporting Program (MMRP) has been created based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) for the Copper Ridge Subdivision proposed by Quest Equity LLC in the City of Hanford.

The first column of the table identifies the mitigation measure. The second column names the party responsible for carrying out the required action. The third column, "Timing of Mitigation Measure" identifies the time the mitigation measure should be initiated. The fourth column, "Responsible Party for Monitoring," names the party ensuring that the mitigation measure is implemented. The last column will be used by the City of Hanford to ensure that the individual mitigation measures have been monitored.

Plan checking and verification of mitigation compliance shall be the responsibility of the City of Hanford.

MITIGATION MEASURE	RESPONSIBLE PARTY FOR IMPLEMENTATION	IMPLEMENTATION TIMING	RESPONSIBLE PARTY FOR MONITORING	VERIFICATION
Biological Resources				
Mitigation Measure BIO 1 (Construction Timing). If feasible, future construction activities will take place entirely outside of the avian nesting season, defined as February 1 to August 31.	Applicant Developer Builder	Ongoing	City of Hanford	
Mitigation Measure BIO 2 (Preconstruction Surveys). If construction must occur between February 1 and August 31, a qualified biologist will conduct surveys for active bird nests within 7 days prior to the start of work during this period. The survey area will encompass the site and accessible surrounding lands within ¼ mile for nesting Swainson's hawks, 500 feet for other nesting raptors, 300 feet for the tricolored blackbird, and 250 feet for	Applicant Developer Builder	7 days prior to construction	City of Hanford	

other nesting birds.				
Mitigation Measure BIO 3 (Avoidance of Active Nests). Should any active nests be discovered in or near proposed construction zones, the biologist will identify a suitable construction-free buffer around the nest. This buffer will be identified on the ground with flagging or fencing and will be maintained until the biologist has determined that the young have fledged and are capable of foraging independently.	Applicant Developer Builder	Ongoing	City of Hanford	
Cultural Resources				
Mitigation Measure CUL-1: In the event of accidental discovery of unidentified archaeological remains during development or ground disturbing activities in the Project area, all work shall be halted in immediate vicinity (within a 100-foot radius) until a qualified archaeologist can identify the discovery and assess its significance.	Applicant/ Construction Contractor	Ongoing during construction	City of Hanford	
Mitigation Measure CUL 2: If human remains are uncovered during construction, work shall be halted, and the Kings County Coroner is to be notified to investigate the remains and arrange proper treatment and disposition. If the remains	Applicant/ Construction Contractor	Ongoing during construction	City of Hanford	

are identified on the basis of archaeological context, age, cultural associations, or biological traits to be those of a Native American, California Health and Safety Code 7050.5 and California Public Resources Code 5097.98 require that the coroner notify the Native American Heritage Commission (NAHC) within 24 hours of discovery. The NAHC will then identify the Most Likely Descendent who will make recommendations regarding the treatment and disposition of the remains.				
Mitigation Measure CUL 3 A burial Treatment Plan shall be entered into by the Project applicant/property owner prior to any ground disturbing activities.	Applicant Construction Contractor	Prior to ground disturbing activities	City of Hanford	

Supporting Information and Sources

1. City of Hanford General Plan Background Report. March 2014. Website [2035 General Plan Background Report \(PDF\).pdf](#)
2. City of Hanford General Plan Policy Document. April 2017. WEbsite [2035 General Plan Policy Document \(PDF\).pdf](#)
3. City of Hanford General Plan Environmental Impact Report 2014. April 2017. Available at Hanford City Hall (Hard Copy Only)
4. City of Hanford General Plan Air Quality Element. July 2010; Website [Air Quality Element Draft - Section 1 \(PDF\).pdf](#)
5. City of Hanford Zoning Ordinance. June 2017. Website [City of Hanford, CA Table of Contents](#)
6. City of Hanford VMT Thresholds and Implementation Guidelines. November 2022. Website [City of Hanford VMT Thresholds and Implementation Guidelines 11-10-2022.pdf](#)
7. City of Hanford 2020 Urban Water Master Plan. December 2021. Website [2020 Urban Water Management Plan \(PDF\).pdf](#)
8. 2023 Kings County Multi-Jurisdiction Hazard Mitigation Plan, February 2024; available at [Kings County MJHMP Final Draft 2.26.24.pdf](#)
9. Kings County Regional Climate Action Plan. May 2014. Available at [Regional Climate Action Plan \(PDF\).pdf](#)
10. Kings County Airport Land Use Plan. 1994. Website [Kings County airport land use compatibility plan.pdf](#)
11. California Department of Conservation Farmland Mapping and Monitoring Program. Website [DLRP Important Farmland Finder](#)
12. SJVAPCD Regulations and Guidelines
13. California Air Resources Board's (CARB's) Air Quality and Land Use Handbook. 2005. Website [Land Use Handbook 0.pdf](#)
14. San Joaquin Valley Air Pollution Control District. 2009. Guidance for Land Use Agencies in Addressing Greenhouse Gas Emission Impacts for New Projects Under CEQA. Website [gamaqi.pdf](#)
15. California Building Code (2022) Website [City of Hanford, CA Buildings and Construction](#)
16. California Energy Commission. 2019 Building Energy Efficiency Standards. Website [2019 Building Energy Efficiency Standards](#)
17. Department of Toxic Substance Control Envirostar. Website [EnviroStar](#)
18. California State Water Resources Control Board. Stormwater Pollution Prevention Program (SWPPP) Website [Construction Stormwater Program | California State Water Resources Control Board](#)
19. United States Census Bureau (2020). Website [U.S. Census Bureau QuickFacts: Hanford city, California](#)
20. United States Department of Agriculture Web Soil Survey and Soils Descriptions. Website [Web Soil Survey](#)
21. California Environmental Quality Act CEQA Guidelines. Website [CEQA Guidelines - Office of Land Use and Climate Innovation](#)

Appendix A

Early Consultation Letters



JANUARY 13, 2025

VIA EMAIL: GMYERS@HANFORDCA.GOV

GABRIELLE MYERS, SENIOR PLANNER

CITY OF HANFORD

COMMUNITY DEVELOPMENT DEPARTMENT

317 N. DOUTY STREET

HANFORD, CA 93230

Dear Ms. Myers:

EARLY CONSULTATION FOR THE COPPER RIDGE RESIDENTIAL AND COMMERCIAL
PROJECT, SCH# 2024121093

The Department of Conservation's (Department) Division of Land Resource Protection (Division) has reviewed the Early Consultation for the Copper Ridge Residential and Commercial Project (Project).

The Division monitors and maps farmland conversion on a statewide basis, provides technical assistance regarding the Williamson Act, and administers various agricultural land conservation programs. Public Resources Code, section 614, subdivision (b) authorizes the Department to provide soil conservation advisory services to local governments, including review of CEQA documents.

Protection of the state's agricultural land resources is part of the Department's mission and central to many of its programs. The CEQA process gives the Department an opportunity to acknowledge the value of the resource, identify areas of Department interest, and offer information on how to assess potential impacts or mitigation opportunities.

The Department respects local decision-making by informing the CEQA process, and is not taking a position or providing legal or policy interpretation.

We offer the following comments for consideration with respect to the project's potential impacts on agricultural land and resources within the Department's purview.

PROJECT ATTRIBUTES

The proposed Project consists of a proposed 650-unit multi-family (300 units) and single-family (350 units) residential subdivision and a 5.45-acre Neighborhood Mixed Use site on approximately 83.61 acres). The residential subdivision consists of 650-unit multi-family (300 units) and single-family (350 units) proposed to be developed over five phases and the commercial portion to be developed in a fifth phase.

The Project site contains Prime Farmland, and Farmland of Statewide Importance as designated by DOC's Farmland Mapping and Monitoring Program, and a portion of the project site is subject to a Williamson Act contract.

PROJECT CONSIDERATIONS

The conversion of agricultural land represents a permanent reduction and impact to California's agricultural land resources. The Department generally advises discussion of the following in any environmental review for the loss or conversion of agricultural land:

- Type, amount, and location of farmland conversion resulting directly and indirectly from implementation of the proposed project.
- Impacts on any current and future agricultural operations in the vicinity; e.g., land-use conflicts, increases in land values and taxes, loss of agricultural support infrastructure such as processing facilities, etc.
- Incremental impacts leading to cumulative impacts on agricultural land. This would include impacts from the proposed project, as well as impacts from past, current, and likely future projects.
- Implementation of any City or County Agricultural Mitigation Plans, Programs, or Policies.
- Proposed mitigation measures for impacted agricultural lands within the proposed project area.
- The project's compatibility with lands within an agricultural preserve and/or enrolled in a Williamson Act contract.

WILLIAMSON ACT

Where, as here, the project site is located on land subject to a Williamson Act contract, the Department advises that the environmental review discuss the compatibility of the project with the contract and local Williamson Act program requirements.

MITIGATING AGRICULTURAL LAND LOSS OR CONVERSION

Consistent with CEQA Guidelines, the Department advises that the environmental review address mitigation for the loss or conversion of agricultural land. An agricultural conservation easement is one potential method for mitigating loss or conversion of agricultural land. (See Cal. Code Regs., tit. 14, § 15370 [mitigation includes "compensating for the impact by replacing or providing substitute resources or environments, including through permanent protection of such resources in the form of conservation easements."]; see also *King and Gardiner Farms, LLC v. County of Kern* (2020) 45 Cal.App.5th 814.)

Mitigation through agricultural conservation easements can take at least two forms: the outright purchase of easements or the donation of mitigation fees to a local, regional, or statewide organization or agency whose purpose includes the acquisition and stewardship of agricultural easements. The conversion of agricultural land may be

viewed as an impact of at least regional significance. Hence, the search for replacement lands may not need to be limited strictly to lands within the project's surrounding area. A helpful source for regional and statewide agricultural mitigation banks is the California Council of Land Trusts. They provide helpful insight into farmland mitigation policies and implementation strategies, including a guidebook with model policies and a model local ordinance. The guidebook can be found at:

[California Council of Land Trusts](#)

Of course, the use of conservation easements is only one form of mitigation, and the Department urges consideration of any other feasible measures necessary to mitigate project impacts.

Thank you for giving us the opportunity to comment on the Early Consultation for the Copper Ridge Residential and Commercial Project. Please provide the Department with notices of any future hearing dates as well as any staff reports pertaining to this project. If you have any questions regarding our comments, please contact Farl Grundy, Associate Environmental Planner via email at Farl.Grundy@conservation.ca.gov.

Sincerely,

A handwritten signature in black ink that reads "Monique Wilber". The script is cursive and fluid.

Monique Wilber

Conservation Program Support Supervisor



Yana Garcia
Secretary for
Environmental Protection



Department of Toxic Substances Control

Katherine M. Butler, MPH, Director
8800 Cal Center Drive
Sacramento, California 95826-3200
dtsc.ca.gov



Gavin Newsom
Governor

SENT VIA ELECTRONIC MAIL

December 27, 2024

Gabrielle Myers
Senior Planner
City of Hanford
317 N Douty St
Hanford, CA 93230
gmyers@hanfordca.gov

RE: REQUEST FOR EARLY CONSULTATION FOR THE COPPER RIDGE
RESIDENTIAL AND COMMERCIAL PROJECT DATED DECEMBER 23, 2024, STATE
CLEARINGHOUSE NUMBER [2024121093](#)

Dear Gabrielle Myers,

The Department of Toxic Substances Control (DTSC) reviewed the Request for Early Consultation (CON) for the Copper Ridge Residential and Commercial Project (Project). The Project consists of a proposed 650-unit residential subdivision (300- multi-family units and 350-single-family units) and a 5.45-acre Neighborhood Mixed Use site on approximately 83.61 acres. The residential subdivision is proposed to be developed over five phases and the commercial portion to be developed in the fifth phase. The southern portion of the project site, located at APN 014-143-078-000 is currently vacant, but has been graded and was formerly utilized for agricultural crop production. The northern portion of the project site, located on APN 014-143-069-000, is in agricultural production. DTSC recommends and requests consideration of the following comments:

1. When agricultural crops and/or land uses are proposed or rezoned for residential use, a number of contaminants of concern (COCs) can be present. The Lead Agency shall identify the amounts of Pesticides and Organochlorine

Pesticides (OCPs) historically used on the property. If present, OCPs requiring further analysis are dichloro-diphenyl-trichloroethane, toxaphene, and dieldrin. Additionally, any level of arsenic present would require further analysis and sampling and must meet [HHRA NOTE NUMBER 3, DTSC-SLs](#) approved thresholds. If they are not, remedial action must take place to mitigate them below those thresholds.

Additional COCs may be found in mixing/loading/storage areas, drainage ditches, farmhouses, or any other outbuildings and should be sampled and analyzed. If smudge pots had been routinely utilized, additional sampling for Polycyclic Aromatic Hydrocarbons and/or Total Petroleum Hydrocarbons may be required.

2. DTSC recommends that all imported soil and fill material should be tested to assess any contaminants of concern meet screening levels as outlined in [DTSC's Preliminary Endangerment Assessment \(PEA\) Guidance Manual](#). Additionally, DTSC advises referencing the [DTSC Information Advisory Clean Imported Fill Material Fact Sheet](#) if importing fill is necessary. To minimize the possibility of introducing contaminated soil and fill material there should be documentation of the origins of the soil or fill material and, if applicable, sampling be conducted to ensure that the imported soil and fill material are suitable for the intended land use. The soil sampling should include analysis based on the source of the fill and knowledge of prior land use. Additional information can be found by visiting [DTSC's Human and Ecological Risk Office \(HERO\) webpage](#).

DTSC appreciates the opportunity to comment on the CON for the Copper Ridge Residential and Commercial Project. Thank you for your assistance in protecting California's people and environment from the harmful effects of toxic substances. If you have any questions or would like clarification on DTSC's comments, please respond to this letter or via [email](#) for additional guidance.

Gabrielle Myers
December 27, 2024
Page 3

Sincerely,

Dave Kereazis

Dave Kereazis
Associate Environmental Planner
HWMP-Permitting Division – CEQA Unit
Department of Toxic Substances Control
Dave.Kereazis@dtsc.ca.gov

cc: (via email)

Governor's Office of Land Use and Climate Innovation
State Clearinghouse
State.Clearinghouse@opr.ca.gov

N & M Tulare, LLC
Project Applicant
barrett@swifthomesinc.com

Darlene Mata
Consultant
DR Mata Consulting
darlene@drmataconsulting.com

Tamara Purvis
Associate Environmental Planner
HWMP - Permitting Division – CEQA Unit
Department of Toxic Substances Control
Tamara.Purvis@dtsc.ca.gov

Scott Wiley
Associate Governmental Program Analyst
HWMP - Permitting Division – CEQA Unit
Department of Toxic Substances Control
Scott.Wiley@dtsc.ca.gov

Appendix B

Air Quality Assessment Memo

MEMORANDUM

To: N&M Capital LLC **Project Number:** 2402-3001

From: Robert Vander Weele

Date: March 20, 2025

Subject: Construction and Operational Phase Air Quality and Greenhouse Gas Emissions Estimates for the Proposed Copper Ridge Subdivision and Commercial Development, Hanford, Kings County, California

Padre Associates, Inc. (Padre) has prepared this revised Memorandum to document the results of the criteria pollutant and greenhouse gas (GHG) estimates for the construction and operational phase of the Proposed Copper Ridge Subdivision and Commercial Development Project (Project). The Project consists of the construction of 658 housing units and a commercial shopping center with two fast food restaurants, two general retail stores, and one gasoline/diesel fueling station with an associated mini mart. The residential construction phase is proposed to take place over four years and the commercial construction phase is proposed to take place over three years. The commercial construction phase will be completed after the residential construction phase has been completed.

Emissions Estimate Methods and Assumptions

Emissions modeling was conducted to estimate the criteria pollutant and GHG emissions for the construction and operational phase of the Project. The emissions were estimated using the most recent emission factors and load factors obtained from the California Emissions Estimator Model® (CalEEMod) User's Guide, Emission Factors (EMFAC) model, the South Coast Air Quality Management District (SCAQMD) and U.S. Environmental Protection Agency (U.S. EPA)

Construction Emissions Estimate Results Summary

Based on the Project construction schedule (i.e., four years of residential construction followed by three years of commercial construction), criteria pollutant emissions for the Project were estimated to be well below the San Joaquin Valley Air Pollution Control District's (SJVAPCD) significance thresholds (refer to Table 1 below). The primary sources of particulate matter of 10 microns in diameter or less (PM₁₀) and particulate matter 10 microns or less (PM_{2.5}) emissions were fugitive dust from grading activities and vehicles traveling on paved roads (refer to Table 2 below). Diesel particulate matter (DPM) from the use of onsite diesel-powered equipment was estimated to be less than 0.002 tons per year for both residential and commercial construction phases (refer to Table 2 below). Emissions estimate tables are provided as an attachment.

Table 1. Estimated Construction Criteria Pollutant Emissions

Phase	Units	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂
Residential Year 1	Tons/yr	0.533	0.055	2.80	0.454	1.42	0.006
Residential Year 2	Tons/yr	0.533	0.055	2.80	0.454	1.42	0.006
Residential Year 3	Tons/yr	0.533	0.055	2.80	0.454	1.42	0.006
Residential Year 4	Tons/yr	0.533	0.055	2.80	0.454	1.42	0.006
Commercial Year 1	Tons/yr	0.158	0.015	0.589	0.145	0.532	0.002
Commercial Year 2	Tons/yr	0.158	0.015	0.589	0.145	0.532	0.002
Commercial Year 3	Tons/yr	0.158	0.015	0.589	0.145	0.532	0.002
SJVAPCD Significance Threshold (tons/year)		10	10	10	15	100	27
Exceed Thresholds?		No	No	No	No	No	No

Table 2. Estimated Construction Particulate and DPM Emissions

Phase	Units	PM ₁₀ E	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E	PM _{2.5} D	PM _{2.5} T
Residential Year 1	Tons/yr	0.008	2.80	2.80	0.008	0.447	0.454
Residential Year 2	Tons/yr	0.008	2.80	2.80	0.008	0.447	0.454
Residential Year 3	Tons/yr	0.008	2.80	2.80	0.008	0.447	0.454
Residential Year 4	Tons/yr	0.008	2.80	2.80	0.008	0.447	0.454
Commercial Year 1	Tons/yr	0.002	0.586	0.589	0.002	0.142	0.145
Commercial Year 2	Tons/yr	0.002	0.586	0.589	0.002	0.142	0.145
Commercial Year 3	Tons/yr	0.002	0.586	0.589	0.002	0.142	0.145
Residential DPM Emissions from Onsite Equipment, Tons/yr*						0.0018	
Commercial DPM Emissions from Onsite Equipment, Tons/yr*						0.0014	

Notes: * - Mobile emissions emitted at offsite locations are not included in this DPM total.

Suffixes E = Exhaust, D= Dust, and T = Total.

GHG emissions for the Project were estimated to be approximately 541 metric tons of carbon dioxide equivalent per year (MTCO₂E/year) for residential construction and 149 MTCO₂E/year per year for commercial construction (refer to Table 3 below).

Table 3. Estimated Construction Related Greenhouse Gas Emissions

Phase	Unit	N₂O	CH₄	CO₂	MTCO₂E/yr
Residential Year 1	Tons/yr	0.054	0.056	579	541
Residential Year 2	Tons/yr	0.054	0.056	579	541
Residential Year 3	Tons/yr	0.054	0.056	579	541
Residential Year 4	Tons/yr	0.054	0.056	579	541
Total Residential	Tons	0.216	0.224	2,318	2,162
Commercial Year 1	Tons/yr	0.012	0.022	160	149
Commercial Year 2	Tons/yr	0.012	0.022	160	149
Commercial Year 3	Tons/yr	0.012	0.022	160	149
Total Commercial	Tons	0.035	0.066	480	446

Notes: Total emissions numbers may not add up due to rounding.

Construction Phase – Information and Assumptions

- All construction equipment type, horsepower, EPA Tier, hourly use and daily use were provided by N&M Capital LLC (N&M) or estimated by Padre.
- Equipment, supplies, fueling, personnel, import and export vehicle trips were provided by N&M or estimated by Padre.
- Site grading, loading/dumping and import/export volumes were provided by N&M.
- Emissions for residential construction Year 2, 3, and 4 were calculated using a similar construction schedule as Year 1 (largest phase of the Project) to provide the most conservative emissions estimates.
- Emissions for commercial construction Year 2 and 3 were calculated using a similar construction schedule as Year 1 (largest phase of the Project) to provide the most conservative emissions estimates. The gasoline/diesel service station was assumed to be constructed during Year 3.

Detailed source information is provided in the attachments.

Operational Emissions Estimate Results Summary

Criteria pollutant emissions for the Project operational activities were estimated to be below the SJVAPCD significance thresholds (refer to Table 4 below). Mobile emissions were estimated to be the primary source of criteria pollutant emissions for residential and commercial operations. The primary source of PM₁₀ and PM_{2.5} emissions were from fugitive dust from vehicles traveling on paved roads (Refer to Table 5 below). DPM from the use of onsite diesel sources was estimated to be less than 0.002 tons per year for both residential and commercial operations (refer to Table 5 below).

Table 4. Estimated Operational Criteria Pollutant Emissions

Phase	Units	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂
Residential Operational Phase without Resident Vehicle Emissions	Tons/yr	0.044	0.102	0.002	0.001	5.14	0.0003
Residential Operational Phase with Resident Vehicle Emissions	Tons/yr	0.677	0.120	8.89	2.25	12.4	0.054
Total Residential Operational Phase Emissions	Tons/Yr	0.722	0.221	8.90	2.25	17.6	0.055
Commercial Operational Phase without Customer Vehicle Emissions	Tons/yr	0.076	0.201	0.002	0.002	7.74	0.0004
Commercial Operational Phase with Customer Vehicle Emissions	Tons/yr	0.524	0.065	4.24	1.08	6.61	0.033
Total Commercial Operational Phase Emissions	Tons/yr	0.600	0.267	4.24	1.08	14.4	0.033
SJVAPCD Significance Threshold (Tons/yr)		10	10	15	15	100	27
Exceed Thresholds?		No	No	No	No	No	No

Notes: Total emissions numbers may not add up due to rounding.

Table 5. Estimated Operational Particulate and DPM Emissions

Phase	Units	PM ₁₀ E	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E	PM _{2.5} D	PM _{2.5} T
Residential Operational Phase without Resident Vehicle Emissions	Tons/yr	0.00004	0.002	0.002	0.0004	0.0005	0.001
Residential Operational Phase with Resident Vehicle Emissions	Tons/yr	0.005	8.89	8.89	0.022	2.23	2.25
Total Residential Operations Emissions	Tons/Yr	0.005	8.89	8.90	0.022	2.23	2.25
Commercial Operational Phase without Customer Vehicle Emissions	Tons/yr	0.0016	0.000	0.002	0.002	0.000	0.002
Commercial Operational Phase with Customer Vehicle Emissions	Tons/yr	0.015	4.22	4.24	0.014	1.06	1.08
Total Commercial Operations Emissions	0.780	0.017	4.22	4.24	0.016	1.06	1.08
Residential DPM Emissions from Onsite Diesel Sources, tons per year*							0.0005
Commercial DPM Emissions from Onsite Diesel Sources, tons per year*							0.0003

Notes: * - Mobile emissions emitted at offsite locations are not included in this DPM total.

Suffixes E = Exhaust, D= Dust, and T = Total.

Total emissions numbers may not add up due to rounding.

Total GHG operational phase plus amortized construction phase emissions were estimated to be approximately 5,658 MTCO₂E/year for the residential Project and 3,163

MTCO₂E/year per year for the commercial Project (refer to Table 6 below). Mobile emissions were estimated to be the primary source of GHG emissions.

Table 6. Estimated Operational Greenhouse Gas Emissions

Phase	Unit	N ₂ O	CH ₄	CO ₂	MTCO ₂ E/yr
Residential Operational Phase without Resident Vehicle* Emissions	Tons/yr	0.013	0.229	609	561
Residential Operational Customer with Resident Emissions	Tons/yr	0.120	0.031	5,505	5,024
Total Operations Emissions	Tons	0.133	0.260	6,113	5,586
Commercial Operations Phase without Customer Vehicle* Emissions	Tons/yr	0.0005	1.22	73.5	97.8
Commercial Operations Phase with Customer Vehicle Emissions	Tons/yr	0.128	0.016	3,327	3,050
Total Operations Emissions	Tons	0.129	1.24	3,400	3,148
Total Residential Operational Phase Plus Amortized Construction Phase Emissions MTCO₂E/year*					5,658
Total Commercial Operational Phase Plus Amortized Construction Phase Emissions MTCO₂E/year*					3,163

Notes: * - Construction GHG emissions were amortized over 30 years.

Total emissions numbers may not add up due to rounding.

Operational Phase – Information and Assumptions

- Operations are assumed to be seven days per week.
- Resident and customer vehicle emissions were calculated based on estimated new daily traffic provided by C2 Consult Corp (C2) of Denver, Colorado and the estimated vehicle miles traveled (VMT) provided by LSA of Riverside, California. (refer to attachments for daily traffic and VMT information).

Detailed source information is provided in the attachments.

Health Risk Prioritization Screening

Using the Project construction and operational emissions estimates, Padre completed a health risk prioritization screening of the Project's residential and commercial construction and operational phase DPM emissions using the SJVAPCD's Prioritization Calculator. The Prioritization Calculator utilizes toxic profiles based on Assembly Bill (AB) 2588 Hotspots Air Toxic Profiles and estimated Project emissions to calculate a prioritization score between 0 and 100 for cancer risk, acute toxicity risk, and chronic toxicity risk. In accordance with the Air Toxics Hot Spots Program, Facility Prioritization Guidelines and SJVAPCD APR- 1906 Framework for Performing Health Risk Assessments, a facility or project with a prioritization score between 0 and less than 10 would not be required to perform a Health Risk Assessments (HRA) and would have a less than significant impact.

The nearest sensitive receptors to the Project site consist of residential homes on adjacent properties within 0 to 100 meters to the west and south of the Project site, and

northwest adjacent Hamilton Elementary School. In addition, the screening also considers the newly constructed residential development as sensitive receptors after each phase of residential construction has been completed. The prioritization screening evaluated the impacts to receptors for the estimated onsite Project DPM emissions associated with the construction phases and onsite DPM emissions associated with the operational phases (refer to Tables 2 and 5 above). The table below summarizes the maximum prioritization scores for all years of construction and the full operational phase on completion of construction.

Table 7. Results of Prioritization Screening

Phase	Receptor Proximity				
	0 to 100 (m)	100 to 250 (m)	250 to 500 (m)	500 to 1,000 (m)	1,000 to 1,500 (m)
Residential Construction Year 1	8.32	2.08	0.333	0.091	0.025
Residential Construction Year 2	8.87	2.22	0.355	0.098	0.027
Residential Construction Year 3	9.42	2.36	0.377	0.104	0.028
Residential Construction Year 4	9.98	2.49	0.399	0.110	0.030
Residential Operational Only	2.22	0.55	0.089	0.024	0.007
Commercial Construction Year 1	8.64	2.16	0.346	0.095	0.026
Commercial Construction Year 2	9.10	2.28	0.364	0.100	0.027
Commercial Construction Year 3	9.56	2.39	0.383	0.105	0.029
Residential and Commercial Operational Only	6.95	1.74	0.278	0.076	0.021

None of the prioritization scores exceed 10 therefore an HRA would not be required by the SJVAPCD. A copy of the prioritization screening calculations is provided in the attachments.

Attachments: Air Quality and Greenhouse Gas Emissions Model Output
Email Correspondence with C2 Consult Corp
Prioritization Screening Calculations

Air Quality and Greenhouse Gas Emissions Model Output

**COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 1: CONSTRUCTION EMISSIONS SUMMARY**

Model Run: January 15, 2025

Source	Days	Peak Day Emissions, lbs/day													Project Emissions, tons													MTCO ₂ e
		NO _x	ROG	PM ₁₀ E*	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E*	PM _{2.5} D	PM _{2.5} T	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀ E*	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E*	PM _{2.5} D	PM _{2.5} T	CO	SO ₂	N ₂ O	CH ₄	CO ₂	
Grading	13	5.33	0.751	0.151	23.5	23.6	0.149	5.07	5.22	29.1	0.094	0.609	1.84	9,297	0.031	0.005	0.001	0.134	0.135	0.001	0.029	0.030	0.189	0.001	0.003	0.012	55.2	51.1
Utilities	115	4.44	0.410	0.084	13.3	13.3	0.082	3.21	3.29	17.3	0.054	0.398	0.777	5,339	0.180	0.023	0.003	0.355	0.358	0.003	0.082	0.085	0.990	0.002	0.004	0.045	188	173
Vertical Construction	120	5.90	0.155	0.090	31.0	31.1	0.087	7.75	7.84	4.28	0.066	0.975	0.088	6,807	0.214	0.008	0.002	1.112	1.115	0.002	0.277	0.279	0.249	0.002	0.024	0.005	191	179
Flatwork and Paving	4	9.31	2.97	0.176	30.7	30.9	0.171	7.56	7.73	26.8	0.110	1.08	1.34	11,172	0.019	0.006	0.000	0.061	0.062	0.000	0.015	0.015	0.054	0.000	0.002	0.003	22.3	20.8
Interior Finishing	22	2.95	0.215	0.041	9.77	9.81	0.040	2.45	2.49	9.01	0.028	0.234	0.108	2,784	0.022	0.002	0.0002	0.068	0.069	0.000	0.017	0.017	0.080	0.0002	0.001	0.001	16.4	15.1
Exterior Finishing	8	2.50	0.236	0.039	9.77	9.81	0.038	2.45	2.49	8.35	0.027	0.233	0.098	2,692	0.008	0.001	0.0001	0.028	0.028	0.0001	0.007	0.007	0.033	0.0001	0.000	0.000	7.6	7.0
Peak Day Emissions, lb/day		9.31	2.97	0.176	31.0	31.1	0.17	7.75	7.84	29.1	0.110	1.081	1.84	11,172	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Project Year -1 Emissions, tons															0.158	0.015	0.002	0.586	0.589	0.002	0.142	0.145	0.532	0.002	0.012	0.022	160	149
Project Year -2 Emissions, tons															0.158	0.015	0.002	0.586	0.589	0.002	0.142	0.145	0.532	0.002	0.012	0.022	160	149
Project Year -3 Emissions, tons															0.158	0.015	0.002	0.586	0.589	0.002	0.142	0.145	0.532	0.002	0.012	0.022	160	149
SJVAPCD Significance Thresholds															10	10	--	--	15	--	--	15	100	27	--	--	--	--
Threshold exceeded?															No	No	--	--	No	--	--	No	No	No	--	--	--	--
Project Total Emissions, tons															0.474	0.045	0.007	1.76	1.77	0.007	0.427	0.434	1.59	0.005	0.035	0.066	480	446
Project Year -1 DPM Emissions From Onsite Equipment, tons															0.00139		--	--	--	--	--	--	--	--	--	--		
Project Year -2 DPM Emissions From Onsite Equipment, tons															0.00139		--	--	--	--	--	--	--	--	--			
Project Year -3 DPM Emissions From Onsite Equipment, tons															0.00139		--	--	--	--	--	--	--	--	--			
Total DPM Emissions From Onsite Equipment, tons															0.00417		--	--	--	--	--	--	--	--	--			
GHG - MTCO ₂ e conversions																									273	27.9	1	--
Approximate Total MTCO ₂ e, tons/yr																									446			

Notes:

- Global Warming Potentials (273 for N₂O, 27.9 for CH₄, and 1 for CO₂, Table 7.SM.6, Intergovernmental Panel on Climate Change (IPCC). 2021. Sixth Assessment Report

SJVAPCD - San Joaquin Valley Air Pollution Control District

MTCO₂e - Metric Tons of Carbon Dioxide Equivalent

NO_x - Oxides of Nitrogen

ROG - Reactive Organic Gases

PM_{2.5} - Particulate Matter 2.5 Microns or Less. An **E** suffix - indicates exhaust, **D** suffix indicates dust and **T** suffix indicates total emissions.

PM₁₀ - Particulate Matter 10 Microns or Less. An **E** suffix - indicates exhaust, **D** suffix indicates dust and **T** suffix indicates total emissions.

DPM - Diesel Particulate Matter

CO - Carbon Monoxide

SO₂ - Sulfur Dioxide

N₂O - Nitrous Oxide

CH₄ - Methane

CO₂ - Carbon Dioxide

* - Includes emissions from on road vehicles operating offsite and away from adjacent sensitive receptors.

COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 2: Grading

On-Site Sources

Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	Emission Factors (g/bhp-hr)									Emissions (lb/day)									Total Emissions (tons)											
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂			
Asphalt Fugitive	--	--	1	0.000	0	--	2.600	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--			
Architectural Coating	--	--	1	0.000	0	--	50.000	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--			
Backhoe	125	37	1	4	13	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.106	0.024	0.003	0.003	1.509	0.002	0.002	0.0620	191	0.001	0.000	0.000	0.000	0.010	0.000	0.000	0.000	1.24			
Crane	250	29	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Compressor-1	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Compressor-2	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Dozer	200	43	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Excavator	160	38	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Generator-1	25	74	1	0	0	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Generator-2	25	74	1	0	0	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Grader	150	41	1	8	13	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.282	0.065	0.009	0.009	4.013	0.005	0.005	0.1681	519	0.002	0.000	0.000	0.000	0.026	0.000	0.000	0.001	3.37			
Lift-1	50	20	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Lift-2	50	20	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Loader-1	250	36	1	6	13	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.310	0.071	0.010	0.010	2.619	0.006	0.005	0.1810	559	0.002	0.000	0.000	0.000	0.017	0.000	0.000	0.001	3.64			
Loader-2	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Paving Machine	100	42	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Paving Equipment	100	36	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Paving Roller	50	38	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				
Scraper-1	475	48	1	8	13	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	1.046	0.241	0.032	0.032	8.847	0.020	0.017	0.6112	1896	0.007	0.002	0.000	0.000	0.058	0.000	0.000	0.004	12.32			
Scraper-2	475	48	1	8	13	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	1.046	0.241	0.032	0.032	8.847	0.020	0.017	0.6112	1896	0.007	0.002	0.000	0.000	0.058	0.000	0.000	0.004	12.32			
Water Truck-1	400	38	1	4	13	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.349	0.080	0.011	0.011	2.949	0.007	0.006	0.2064	637	0.002	0.001	0.000	0.000	0.019	0.000	0.000	0.001	4.14			
Total						3.137	0.72	0.10	0.097	28.783	0.060	0.051	1.840	5698	0.020	0.005	0.001	0.001	0.187	0.000	0.000	0.012	37.04												

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)									Peak Day Emissions (lb/day)									Total Emissions (tons)									
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	
Passenger Vehicle - LDA (offsite)	1	1	2	50	13	0.0324	0.0056	0.0009	0.0009	0.630	0.0026	0.0040	0.002	267	0.007	0.001	0.000	0.000	0.139	0.001	0.001	0.000	58.9	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.383	
Light-Duty Truck - LDT2 (offsite)	1	1	6	50	13	0.0409	0.0088	0.0046	0.0044	0.084	0.0025	0.0411	0.000	261	0.027	0.006	0.003	0.003	0.056	0.002	0.027	0.000	173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.122	
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	2	0.2187	0.0036	0.0041	0.0039	0.021	0.0092	0.1526	0.000	969	0.002	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011		
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	2	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.108	0.001	0.003	0.002	0.006	0.002	0.026	0.000	168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.168	
Heavy Duty Trucks - T7TC (offsite)	1	1	6	50	2	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.648	0.006	0.015	0.015	0.034	0.010	0.159	0.000	1007	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.007	
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	4	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.108	0.001	0.003	0.002	0.006	0.002	0.026	0.000	168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.336	
Heavy Duty Trucks - T7TC (offsite)	1	1	12	50	15	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	1.295	0.012	0.031	0.029	0.068	0.019	0.317	0.001	2014	0.010	0.000	0.000	0.000	0.001	0.000	0.002	0.000	15.107	
Total						2.20	0.03	0.05	0.05	0.31	0.034	0.559	0.002	3599	0.011	0.000	0.000	0.000	0.002	0.000	0.003	0.000	18.13										

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	2	50	13	5.1564	1.2895	1.136774	0.284273857	0.007389	0.001848
Light-Duty Truck - LDT2 (offsite)	1	1	6	50	13	5.1573	1.2898	3.410906	0.853026465	0.022171	0.005545
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	2	5.1971	1.3037	0.057288	0.014370905	0.000057	0.000014
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	2	5.2221	1.3125	0.575637	0.144674521	0.000576	0.000145
Heavy Duty Trucks - T7TC (offsite)	1	1	6	50	2	5.2221	1.3125	3.453822	0.868047129	0.003454	0.000868
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	4	5.2221	1.3125	0.575637	0.144674521	0.001151	0.000289
Heavy Duty Trucks - T7TC (offsite)	1	1	12	50	15	5.2221	1.3125	6.907645	1.736094258	0.051807	0.013021
Total								16.117709	4.045162	0.086605	0.021730

COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 3: Utilities

On-Site Sources

Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	Emission Factors (g/bhp-hr)								Emissions (lb/day)								Total Emissions (tons)										
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Asphalt Fugitive	--	--	1	0.000	0	--	2.600	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	
Architectural Coating	--	--	1	0.000	0	--	50.000	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	
Backhoe	125	37	1	6	115	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.159	0.037	0.005	0.005	2.264	0.003	0.003	0.0930	287	0.009	0.002	0.0003	0.0003	0.130	0.000	0.000	0.005	16.51
Crane	250	29	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00		
Compressor-1	100	48	1	4	115	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.110	0.025	0.003	0.003	1.566	0.003	0.002	0.0135	241	0.006	0.001	0.0002	0.0002	0.090	0.000	0.000	0.001	13.83
Compressor-2	100	48	1	4	115	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.110	0.025	0.003	0.003	1.566	0.003	0.002	0.0135	241	0.006	0.001	0.0002	0.0002	0.090	0.000	0.000	0.001	13.83
Dozer	200	43	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00		
Excavator	160	38	1	4	115	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.139	0.032	0.004	0.004	1.984	0.003	0.002	0.0820	253	0.008	0.002	0.0002	0.0002	0.114	0.000	0.000	0.005	14.56
Generator-1	25	74	1	8	115	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.052	0.002	0.0002	0.0002	0.077	0.000	0.000	0.001	10.66
Generator-2	25	74	1	0	0	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.00	
Grader	150	41	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00		
Lift-1	50	20	1	6	115	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.021	0.001	0.0001	0.0001	0.028	0.000	0.000	0.001	4.00
Lift-2	50	20	1	6	115	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.021	0.001	0.0001	0.0001	0.028	0.000	0.000	0.001	4.00
Loader-1	250	36	1	6	115	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.310	0.071	0.010	0.010	2.619	0.006	0.005	0.1810	559	0.018	0.004	0.0005	0.0005	0.151	0.000	0.000	0.010	32.16
Loader-2	250	36	1	4	115	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.206	0.048	0.006	0.006	1.746	0.004	0.003	0.1206	373	0.012	0.003	0.0004	0.0004	0.100	0.000	0.000	0.007	21.44
Paving Machine	100	42	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.00	
Paving Equipment	100	36	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.00	
Paving Roller	50	38	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.00	
Scraper-1	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.00	
Scraper-2	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.00	
Water Truck-1	400	38	1	4	115	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.349	0.080	0.011	0.011	2.949	0.007	0.006	0.2064	637	0.020	0.005	0.001	0.001	0.170	0.000	0.000	0.012	36.63
Total						3.005	0.39	0.047	0.047	17.010	0.031	0.025	0.775	2915	0.173	0.022	0.003	0.003	0.978	0.002	0.001	0.045	167.62									

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)									Peak Day Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	1	1	2	50	115	0.0324	0.0056	0.0009	0.0009	0.630	0.0026	0.0040	0.002	267	0.007	0.001	0.000	0.000	0.139	0.001	0.001	0.000	58.9	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	3.384
Light-Duty Truck - LDT2 (offsite)	1	1	6	50	115	0.0409	0.0088	0.0046	0.0044	0.084	0.0025	0.0411	0.000	261	0.027	0.006	0.003	0.003	0.056	0.002	0.027	0.000	173	0.002	0.000	0.000	0.000	0.003	0.000	0.002	0.000	9.924
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	6	0.2187	0.0036	0.0041	0.0039	0.021	0.0092	0.1526	0.000	969	0.002	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.032	
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	6	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.108	0.001	0.003	0.002	0.006	0.002	0.026	0.000	168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.504	
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	31	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.216	0.002	0.005	0.005	0.011	0.003	0.053	0.000	336	0.003	0.000	0.000	0.000	0.000	0.001	0.000	5.203	
Heavy Duty Trucks - T7TC (offsite)	1	1	10	50	2	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	1.079	0.010	0.026	0.024	0.057	0.016	0.264	0.000	1679	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1.679	
Total						1.44	0.02	0.04	0.03	0.27	0.023	0.374	0.001	2424	0.007	0.000	0.000	0.000	0.27	0.023	0.374	0.001	2424	0.007	0.000	0.000	0.000	0.011	0.000	0.003	0.000	20.73

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	2	50	115	5.1564	1.2895	1.136774	0.284273857	0.065364	0.016346
Light-Duty Truck - LDT2 (offsite)	1	1	6	50	115	5.1573	1.2898	3.410906	0.853026465	0.196127	0.049049
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	6	5.1971	1.3037	0.057288	0.014370905	0.000172	0.000043
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	6	5.2221	1.3125	0.575637	0.144674521	0.001727	0.000434
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	31	5.2221	1.3125	1.151274	0.289349043	0.017845	0.004485
Heavy Duty Trucks - T7TC (offsite)	1	1	10	50	2	5.2221	1.3125	5.756371	1.446745215	0.005756	0.001447
						Total	12.088249	3.032440	0.286991	0.071804	

Notes:

Hours per day and durations estimated and approved by client.

Round trips for supplies deliveries, equipment and trash pickups estimated from within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

Round trips for fuel deliveries from Hanford area (approximatley 5-miles).

Round trips for LDA and LDT2 is estimated from within within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

* Asphalt in acres per day

* Architectural Coating in liters per day

COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 4: Vertical Construction

On-Site Sources

Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	Emission Factors (g/bhp-hr)									Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Asphalt Fugitive	--	--	1	0.000	0	--	2.600	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Architectural Coating	--	--	1	0.000	0	--	50.0	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Backhoe	125	37	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	
Crane	250	29	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	
Compressor-1	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Compressor-2	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Dozer	200	43	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Excavator	160	38	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Generator-1	25	74	1	8	120	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.054	0.002	0.0002	0.0002	0.080	0.000	0.000	0.001	11.126
Generator-2	25	74	1	8	120	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.054	0.002	0.0002	0.0002	0.080	0.000	0.000	0.001	11.126
Grader	150	41	1	0	120	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Lift-1	50	20	1	6	120	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.022	0.001	0.0001	0.0001	0.029	0.000	0.000	0.001	4.171
Lift-2	50	20	1	6	120	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.509	0.022	0.001	0.0001	0.0001	0.029	0.000	0.000	0.001	4.17
Loader-1	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Loader-2	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Paving Machine	100	42	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Paving Equipment	100	36	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Paving Roller	50	38	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Scraper-1	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Scraper-2	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Water Truck-1	400	38	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	
Total						2.519	0.11	0.007	0.007	3.654	0.006	0.004	0.085	510	0.151	0.007	0.000	0.000	0.219	0.000	0.000	0.005	30.59									

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)									Peak Day Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	1	1	5	50	120	0.0324	0.0056	0.0009	0.0009	0.630	0.0026	0.0040	0.002	267	0.018	0.003	0.001	0.000	0.347	0.001	0.002	0.001	147	0.001	0.000	0.000	0.000	0.021	0.000	0.000	0.000	8.828
Light-Duty Truck - LDT2 (offsite)	1	1	10	50	120	0.0409	0.0088	0.0046	0.0044	0.084	0.0025	0.0411	0.000	261	0.045	0.010	0.005	0.005	0.093	0.003	0.045	0.000	288	0.003	0.001	0.000	0.000	0.006	0.000	0.003	0.000	17.259
Med-Heavy Duty - T6 Utility (offsite)	1	1	10	50	120	0.2187	0.0036	0.0041	0.0039	0.021	0.0092	0.1526	0.000	969	0.241	0.004	0.004	0.004	0.024	0.010	0.168	0.000	1068	0.014	0.000	0.000	0.000	0.001	0.001	0.010	0.000	64.057
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	6	0.2187	0.0036	0.0041	0.0039	0.021	0.0092	0.1526	0.000	969	0.002	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.032	
Heavy Duty Trucks - T7TC (offsite)	1	1	10	50	32	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	1.079	0.010	0.026	0.024	0.057	0.016	0.264	0.000	1679	0.017	0.000	0.000	0.000	0.001	0.000	0.004	0.000	26.9
Heavy Duty Trucks - T7TC (offsite)	1	1	10	50	33	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	1.079	0.010	0.026	0.024	0.06	0.016	0.264	0.000	1679	0.018	0.000	0.000	0.000	0.001	0.000	0.004	0.000	27.696
Heavy Duty Trucks - T7TC (offsite)	1	1	5	35	32	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.378	0.003	0.009	0.009	0.02	0.006	0.093	0.000	587	0.006	0.000	0.000	0.000	0.000	0.001	0.000	9.400	
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	32	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.216	0.002	0.005	0.005	0.011	0.003	0.053	0.000	336	0.003	0.000	0.000	0.000	0.000	0.001	0.000	5.371	
Heavy Duty Trucks - T7TC (offsite)	1	1	3	50	2	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.324	0.003	0.008	0.007	0.017	0.005	0.079	0.000	504	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.504	
Total						3.38	0.05	0.08	0.08	0.63	0.060	0.971	0.003	6297	0.063	0.001	0.002	0.002	0.030	0.002	0.024	0.000	160.00									

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	5	50	120	5.1564	1.2895	2.841934	0.710684644	0.170516	0.042641
Light-Duty Truck - LDT2 (offsite)	1	1	10	50	120	5.1573	1.2898	5.684844	1.421710775	0.341091	0.085303
Med-Heavy Duty - T6 Utility (offsite)	1	1	10	50	120	5.1971	1.3037	5.728786	1.437090524	0.343727	0.086225
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	6	5.1971	1.3037	0.057288	0.014370905	0.000172	0.000043
Heavy Duty Trucks - T7TC (offsite)	1	1	10	50	32	5.2221	1.3125	5.756371	1.446745215	0.092102	0.023148
Heavy Duty Trucks - T7TC (offsite)	1	1	10	50	33	5.2221	1.3125	5.756371	1.446745215	0.094980	0.023871
Heavy Duty Trucks - T7TC (offsite)	1	1	5	35	32	5.2221	1.3125	2.014730	0.506360825	0.032236	0.008102
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	32	5.2221	1.3125	1.151274	0.289349043	0.018420	0.004630
Heavy Duty Trucks - T7TC (offsite)	1	1	3	50	2	5.2221	1.3125	1.726911	0.434023564	0.001727	0.000434
Total								30.718508	7.707081	1.094971	0.274397

COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 5: Flatwork and Paving

On-Site Sources

Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	Emission Factors (g/bhp-hr)									Emissions (lb./day)								Total Emissions (tons)									
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Asphalt Fugitive	--	--	1	0.885	4	--	2.600	--	--	--	--	--	--	--	--	2.301	--	--	--	--	--	--	--	--	0.005	--	--	--	--	--	--	
Architectural Coating	--	--	0	0.000	0	--	50.000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	
Backhoe	125	37	1	6	4	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.159	0.037	0.005	0.005	2.264	0.003	0.003	0.0930	287	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.57	
Crane	250	29	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-1	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-2	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Dozer	200	43	1	6	4	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.296	0.068	0.009	0.009	2.503	0.006	0.005	0.1740	539	0.001	0.000	0.000	0.000	0.005	0.000	0.000	0.000	1.08
Excavator	160	38	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Generator-1	25	74	1	8	4	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.002	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.37
Generator-2	25	74	1	0	0	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Grader	150	41	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Lift-1	50	20	1	6	4	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.14
Lift-2	50	20	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Loader-1	250	36	1	8	4	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.413	0.095	0.013	0.013	3.492	0.008	0.007	0.2413	746	0.001	0.000	0.000	0.000	0.007	0.000	0.000	0.000	1.49
Loader-2	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Machine	100	42	2	8	4	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.385	0.089	0.012	0.012	5.482	0.007	0.006	0.2252	697	0.001	0.000	0.000	0.000	0.011	0.000	0.000	0.000	1.39
Paving Equipment	100	36	1	8	4	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.165	0.038	0.005	0.005	2.349	0.003	0.003	0.0971	300	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.60
Paving Roller	50	38	2	8	4	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	1.836	0.080	0.005	0.005	2.480	0.003	0.003	0.0536	381	0.004	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.76
Scraper-1	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Scraper-2	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Water Truck-1	400	38	1	8	4	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.697	0.161	0.021	0.021	5.898	0.013	0.011	0.4128	1274	0.001	0.000	0.000	0.000	0.012	0.000	0.000	0.001	2.55
Total						5.211	2.92	0.07	0.074	26.294	0.047	0.039	1.340	4479	0.010	0.006	0.000	0.000	0.053	0.000	0.000	0.003	8.96									

On-Road Sources

						Emission Factors (g/mile)								Peak Day Emissions (lb./day)								Total Emissions (tons)											
Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	
Passenger Vehicle - LDA (offsite)	1	1	2	50	4	0.0324	0.0056	0.0009	0.0009	0.630	0.0026	0.0040	0.002	267	0.007	0.001	0.000	0.000	0.139	0.001	0.001	0.000	58.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.118
Light-Duty Truck - LDT2 (offsite)	1	1	8	50	4	0.0409	0.0088	0.0046	0.0044	0.084	0.0025	0.0411	0.000	261	0.036	0.008	0.004	0.004	0.074	0.002	0.036	0.000	230.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.460
Passenger Vehicle - LDA (offsite)	1	1	1	50	4	0.0324	0.0056	0.0009	0.0009	0.630	0.0026	0.0040	0.002	267	0.004	0.001	0.000	0.000	0.069	0.000	0.000	0.000	29.4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.059
Light-Duty Truck - LDT2 (offsite)	1	1	3	50	4	0.0409	0.0088	0.0046	0.0044	0.084	0.0025	0.0411	0.000	261	0.014	0.003	0.002	0.001	0.028	0.001	0.014	0.000	86	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.173
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	1	0.2187	0.0036	0.0041	0.0039	0.021	0.0092	0.1526	0.000	969	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	5	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.216	0.002	0.005	0.005	0.011	0.003	0.053	0.000	336	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.839
Heavy Duty Trucks - T7TC (offsite)	1	1	16	50	4	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	1.727	0.016	0.041	0.039	0.09	0.025	0.423	0.001	2686	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	5.371
Heavy Duty Trucks - T7TC (offsite)	1	1	2	35	17	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.151	0.001	0.004	0.003	0.01	0.002	0.037	0.000	235	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.997
Heavy Duty Trucks - T7TC (offsite)	1	1	8	50	4	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.864	0.008	0.020	0.020	0.05	0.013	0.212	0.000	1343	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.686
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	1	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.108	0.001	0.003	0.002	0.006	0.002	0.026	0.000	168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.084
Heavy Duty Trucks - T7TC (offsite)	1	1	9	50	2	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.972	0.009	0.023	0.022	0.051	0.014	0.238	0.000	1511	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.511
Total						4.10	0.05	0.10	0.10	0.52	0.063	1.042	0.003	6693	0.008	0.000	0.000	0.000	0.001	0.000	0.002	0.000	13.30										

On-Road Sources

						Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	2	50	4	5.1564	1.2895	1.136774	0.284273857	0.002274	0.000569
Light-Duty Truck - LDT2 (offsite)	1	1	8	50	4	5.1573	1.2898	4.547875	1.13736862	0.009096	0.002275
Passenger Vehicle - LDA (offsite)	1	1	1	50	4	5.1564	1.2895	0.568387	0.142136929	0.001137	0.000284
Light-Duty Truck - LDT2 (offsite)	1	1	3	50	4	5.1573	1.2898	1.705453	0.426513232	0.003411	0.000853
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	1	5.1971	1.3037	0.057288	0.014370905	0.000029	0.000007
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	5	5.2221	1.3125	1.151274	0.289349043	0.002878	0.000723
Heavy Duty Trucks - T7TC (offsite)	1	1	16	50	4	5.2221	1.3125	9.210193	2.314792343	0.018420	0.004630
Heavy Duty Trucks - T7TC (offsite)	1	1	2	35	17	5.2221	1.3125	0.805892	0.20254433	0.006850	0.001722
Heavy Duty Trucks - T7TC (offsite)	1	1	8	50	4	5.2221	1.3125	4.605096	1.157396172	0.009210	0.002315
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	1	5.2221	1.3125	0.575637	0.144674521	0.000288	0.000072
Heavy Duty Trucks - T7TC (offsite)	1	1	9	50	2	5.2221	1.3125	5.180734	1.302070693	0.005181	0.001302
						Total	7.415491	29.544602	7.415491	0.058773	0.014752

COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 6: Interior Finishing

On-Site Sources

Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	Emission Factors (g/bhp-hr)									Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Asphalt Fugitive	--	--	1	0.000	0	--	2.600	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Architectural Coating	--	--	1	21.0	22	--	50.0	--	--	--	--	--	--	--	--	0.0231	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Backhoe	125	37	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Crane	250	29	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-1	100	48	1	8	22	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.220	0.051	0.007	0.007	3.132	0.005	0.004	0.0271	481	0.002	0.001	0.000	0.000	0.034	0.000	0.000	0.000	5.29
Compressor-2	100	48	1	8	12	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.220	0.051	0.007	0.007	3.132	0.005	0.004	0.0271	481	0.001	0.000	0.000	0.000	0.019	0.000	0.000	0.000	2.89
Dozer	200	43	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Excavator	160	38	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Generator-1	25	74	1	8	22	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.010	0.000	0.000	0.000	0.015	0.000	0.000	0.000	2.04
Generator-2	25	74	1	4	12	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.449	0.020	0.001	0.001	0.669	0.001	0.001	0.0101	92.7	0.003	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.56
Grader	150	41	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Lift-1	50	20	1	6	22	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.004	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.76
Lift-2	50	20	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Loader-1	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Loader-2	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Machine	100	42	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Equipment	100	36	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Roller	50	38	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Scraper-1	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Scraper-2	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Water Truck-1	400	38	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Total						2.149	0.20	0.02	0.019	8.761	0.014	0.010	0.107	1310	0.020	0.002	0.000	0.000	0.077	0.000	0.000	0.001	11.54									

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)									Peak Day Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	1	1	2	50	22	0.0324	0.0056	0.0009	0.0009	0.630	0.0026	0.0040	0.002	267	0.007	0.001	0.000	0.000	0.139	0.001	0.001	0.000	58.9	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.647
Light-Duty Truck - LDT2 (offsite)	1	1	8	50	22	0.0409	0.0088	0.0046	0.0044	0.084	0.0025	0.0411	0.000	261	0.036	0.008	0.004	0.004	0.074	0.002	0.036	0.000	230	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	2.531
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	2	0.2187	0.0036	0.0041	0.0039	0.021	0.0092	0.1526	0.000	969	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	5	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.216	0.002	0.005	0.005	0.011	0.003	0.053	0.000	336	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.839
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	2	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.108	0.001	0.003	0.002	0.006	0.002	0.026	0.000	168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.168
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	2	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.432	0.004	0.010	0.010	0.023	0.006	0.106	0.000	671	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.671
						Total	0.80	0.02	0.02	0.02	0.25	0.014	0.224	0.001	1475	0.002	0.000	0.0001	0.0001	0.002	0.000	0.000	4.87									

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	2	50	22	5.1564	1.2895	1.136774	0.284273857	0.012505	0.003127
Light-Duty Truck - LDT2 (offsite)	1	1	8	50	22	5.1573	1.2898	4.547875	1.13736862	0.050027	0.012511
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	2	5.1971	1.3037	0.057288	0.014370905	0.000057	0.000014
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	5	5.2221	1.3125	1.151274	0.289349043	0.002878	0.000723
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	2	5.2221	1.3125	0.575637	0.144674521	0.000576	0.000145
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	2	5.2221	1.3125	2.302548	0.578698086	0.002303	0.000579
						Total		9.771396	2.448735	0.068345	0.017099

Notes:

Hours per day and durations estimated and approved by client.

Round trips for supplies deliveries, equipment and trash pickups estimated from within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

Round trips for fuel deliveries from Hanford area (approximatley 5-miles).

COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 7: Exterior Finishing

On-Site Sources

Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	Emission Factors (g/bhp-hr)									Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Asphalt Fugitive	--	--	1	0.000	0	--	2.600	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Architectural Coating	--	--	1	57.8	8	--	50.0	--	--	--	--	--	--	--	--	0.0637	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Backhoe	125	37	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Crane	250	29	1	0	0	22.000	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-1	100	48	1	8	8	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.220	0.051	0.007	0.007	3.132	0.005	0.004	0.0271	481	0.001	0.000	0.000	0.000	0.013	0.000	0.000	0.000	1.92
Compressor-2	100	48	1	8	8	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.220	0.051	0.007	0.007	3.132	0.005	0.004	0.0271	481	0.001	0.000	0.000	0.000	0.013	0.000	0.000	0.000	1.92
Dozer	200	43	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Excavator	160	38	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Generator-1	25	74	1	8	8	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.004	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.74
Generator-2	25	74	1	0	0	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Grader	150	41	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Lift-1	50	20	1	6	8	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.001	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.28
Lift-2	50	20	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Loader-1	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Loader-2	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Machine	100	42	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Equipment	100	36	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Roller	50	38	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Scraper-1	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Scraper-2	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Water Truck-1	400	38	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Total						1.700	0.22	0.02	0.017	8.092	0.013	0.009	0.097	1217	0.007	0.001	0.000	0.000	0.032	0.000	0.000	4.87										

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)									Peak Day Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	1	1	2	50	8	0.0324	0.0056	0.0009	0.0009	0.630	0.0026	0.0040	0.002	267	0.007	0.001	0.000	0.000	0.139	0.001	0.001	0.000	58.9	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.235
Light-Duty Truck - LDT2 (offsite)	1	1	8	50	8	0.0409	0.0088	0.0046	0.0044	0.084	0.0025	0.0411	0.000	261	0.036	0.008	0.004	0.004	0.074	0.002	0.036	0.000	230	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.920
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	1	0.2187	0.0036	0.0041	0.0039	0.021	0.0092	0.1526	0.000	969	0.002	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	5	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.216	0.002	0.005	0.005	0.011	0.003	0.053	0.000	336	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.839	
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	1	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.108	0.001	0.003	0.002	0.006	0.002	0.026	0.000	168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.084	
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	2	0.9793	0.0090	0.0232	0.0222	0.052	0.0144	0.2399	0.000	1523	0.432	0.004	0.010	0.010	0.023	0.006	0.106	0.000	671	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.671	
						Total	0.80	0.02	0.02	0.02	0.25	0.014	0.224	0.001	1475	0.001	0.0000	0.0000	0.0000	0.001	0.0000	0.0000	0.0000	0.001	0.0000	0.000	0.0000	0.000	0.0000	2.76		

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	2	50	8	5.1564	1.2895	1.136774	0.284273857	0.004547	0.001137
Light-Duty Truck - LDT2 (offsite)	1	1	8	50	8	5.1573	1.2898	4.547875	1.13736862	0.018191	0.004549
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	1	5.1971	1.3037	0.057288	0.014370905	0.000029	0.000007
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	5	5.2221	1.3125	1.151274	0.289349043	0.002878	0.000723
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	1	5.2221	1.3125	0.575637	0.144674521	0.000288	0.000072
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	2	5.2221	1.3125	2.302548	0.578698086	0.002303	0.000579
						Total		9.771396	2.448735	0.028236	0.007068

Notes:

Hours per day and durations estimated and approved by client.

Round trips for supplies deliveries, equipment and trash pickups estimated from within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

Round trips for fuel deliveries from Hanford area (approximatley 5-miles).

Round trips for LDA and LDT2 is estimated from within within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

* Asphalt in acres per day

COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 8: Construction - Fugitive Dust Emissions - Phase 1

Construction

Activity	Source	Source Units	Number of Days	Emission Factor	Emission Factor, Units	Peak Day Emissions (lbs/day)		Total Emissions (tons)	
						PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}
Grading									
Site Grading	1.4	acres/day	13	1.1	lbs PM10/day/acre	1.4988	0.1363	0.0097	0.0015
Truck Loading & Dumping	231	tons/day	13	1.72E-04	lbs/ton	0.0397	0.0060	0.0003	0.0000
Vehicle Miles Off-Road	5.0	vehicle-miles/day	13	1.17	lbs/vehicle-mile	5.8276	0.8825	0.0379	0.0057
Max/Total						7.366	1.025	0.048	0.0073
Utilities									
Site Grading	0.01	acres/day	115	1.1	lbs PM10/day/acre	0.0110	0.0010	0.0006	0.0001
Truck Loading & Dumping	0	tons/day	0	1.72E-04	lbs/ton	0.0000	0.0000	0.0000	0.0000
Vehicle Miles Off-Road	1.0	vehicle-miles/day	115	1.17	lbs/vehicle-mile	1.1655	0.1765	0.0670	0.0101
Max/Total						1.177	0.177	0.068	0.0102
Vertical Construction									
Site Grading	0.00	acres/day	0	1.1	lbs PM10/day/acre	0.0000	0.0000	0.0000	0.0000
Truck Loading & Dumping	0	tons/day	0	1.72E-04	lbs/ton	0.0000	0.0000	0.0000	0.0000
Vehicle Miles Off-Road	0.25	vehicle-miles/day	120	1.17	lbs/vehicle-mile	0.2914	0.0441	0.0175	0.0026
Max/Total						0.291	0.044	0.017	0.0026
Flatwork and Paving									
Site Grading	0.50	acres/day	4	1.1	lbs PM10/day/acre	0.5500	0.0500	0.0011	0.0002
Truck Loading & Dumping (Grading Phase)	2,038	tons/day	4	1.72E-04	lbs/ton	0.3506	0.05309	0.000701	0.000106
Vehicle Miles Off-Road	0.25	vehicle-miles/day	4	1.17	lbs/vehicle-mile	0.2914	0.0441	0.0006	0.0001
Max/Total						1.192	0.147	0.002	0.0004
Interior Finishing									
Site Grading	0.00	acres/day	0	1.1	lbs PM10/day/acre	0.0000	0.0000	0.0000	0.0000
Truck Loading & Dumping (Grading Phase)	0	tons/day	0	1.72E-04	lbs/ton	0.0000	0.0000	0.0000	0.0000
Vehicle Miles Off-Road	0.00	vehicle-miles/day	0	1.17	lbs/vehicle-mile	0.0000	0.0000	0.0000	0.0000
Max/Total						0.000	0.000	0.000	0.0000
Exterior Improvements									
Site Grading	0.0	acres/day	0	1.1	lbs PM10/day/acre	0.0000	0.0000	0.0000	0.0000
Truck Loading & Dumping (Grading Phase)	0	tons/day	0	1.72E-04	lbs/ton	0.0000	0.0000	0.0000	0.0000
Vehicle Miles Off-Road	0.00	vehicle-miles/day	0	1.17	lbs/vehicle-mile	0.0000	0.0000	0.0000	0.0000
Max/Total						0.000	0.000	0.0000	0.0000

Fugitive Dust Emissions: Inputs for the Table

Emission factors based on following inputs

Mean number of rain days per year	0	worst case
Silt content of soil, fill storage pile, %	1.5	SCAQMD default value
Roadway inputs (paved and unpaved, as per URBEMIS)		
Roads mean vehicle weight, tons	20.61	based on project description, HHDT + LDT and vehicles weight (average of full and empty)
unpaved dirt road silt content, %	8.4	AP-42 construction sites
Truck Loading inputs		
k, particle size multiplier, default=0.35 fpr pm10	0.35	
U, mean wind speed, mph range 1.3-15	8.15	
M, moisture content, default=12%	12	
PM2.5/PM10	0.15	
Site grading emissions from CalEEMod for grading	0.091	ratio of PM2.5/PM10 CalEEMod
Demolition materials, tons/yds3	1.000	estimated for concrete debris

<i>Fill materials, tons/yds3</i>	<i>1.000</i>	<i>estimated for soils</i>
<i>Mitigation: demolition area watering (fraction reduction)</i>	<i>0.00</i>	<i>0.61 for watering every 3 hours (SCAQMD)</i>
<i>Mitigation: grading/dist area watering (fraction reduction)</i>	<i>0.00</i>	<i>0.61 for watering every 3 hours (SCAQMD)</i>
<i>Mitigation: dumping soil moisture (fraction reduction)</i>	<i>0.00</i>	<i>0.69 for minimum 12% soil moisture (SCAQMD)</i>
<i>Mitigation: storage piles (fraction reduction)</i>	<i>0.00</i>	<i>0.90 for watering by hand and covering (SCAQMD)</i>
<i>Mitigation: roads (fraction reduction)</i>	<i>0.55</i>	<i>0.55 for watering 3X per day (SCAQMD), 0.80 for soil binders applied monthly (AP-42)</i>

Notes:

PM2.5/PM10 ratio as per AP-42 k factor for PM10 and PM2.5

Demolition dust calculations as per EPA AP-42 11.19 and 13.2.4

Truck loading dumping cut/fill based on CalEEMod

Storage pile emissions based on SCAQMD Handbook (URBEMIS does not address emissions from storage piles)

Paved and unpaved road dust emissions based on AP-42 2006 (unpaved) Chapt 13. EPA AP-42 2006 is the same as URBEMS and CalEEMod

One month assumes 22 days of activity, as per URBEMIS

COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 9: Emission Factors and Assumptions

Onsite Construction				Emission Factors (g/bhp-hr)									Emission Factors (lb/bhp-hr)								
	Tier	Operational Horsepower	Load Factor	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Asphalt Fugitive	EF = lb/acre	--	--	--	2.60	--	--	--	--	--	--	--	--	2.6000	--	--	--	--	--	--	--
Architectural Coating	EF = g/L	--	--	--	50	--	--	--	--	--	--	--	--	0.1102	--	--	--	--	--	--	--
Backhoe	4	125	37	0.260	0.060	0.008	0.008	3.700	0.005	0.0042	0.152	469	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00034	1.0349
Crane	4	250	29	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.153	473	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0427
Compressor-1	4	100	48	0.260	0.060	0.008	0.008	3.700	0.006	0.0042	0.032	568	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00007	1.2529
Compressor-2	4	100	48	0.260	0.060	0.008	0.008	3.700	0.006	0.0042	0.032	568	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00007	1.2529
Dozer	4	200	43	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.153	474	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0450
Excavator	4	160	38	0.260	0.060	0.008	0.008	3.700	0.005	0.0042	0.153	472	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00034	1.0415
Generator-1	4	25	74	2.750	0.120	0.008	0.008	4.100	0.007	0.0042	0.062	568	0.0061	0.0003	0.0000	0.0000	0.0090	0.00002	0.00001	0.00014	1.2529
Generator-2	4	25	74	2.750	0.120	0.008	0.008	4.100	0.007	0.0042	0.062	568	0.0061	0.0003	0.0000	0.0000	0.0090	0.00002	0.00001	0.00014	1.2529
Grader	4	150	41	0.260	0.060	0.008	0.008	3.700	0.005	0.0042	0.155	478	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00034	1.0549
Lift-1	4	50	20	2.740	0.120	0.008	0.008	3.700	0.005	0.0042	0.170	525	0.0060	0.0003	0.0000	0.0000	0.0082	0.00001	0.00001	0.00037	1.1585
Lift-2	4	50	20	2.740	0.120	0.008	0.008	3.700	0.005	0.0042	0.170	525	0.0060	0.0003	0.0000	0.0000	0.0082	0.00001	0.00001	0.00037	1.1585
Loader-1	4	250	36	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.152	470	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0357
Loader-2	4	250	36	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.152	470	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0357
Paving Machine	4	100	42	0.260	0.060	0.008	0.008	3.700	0.005	0.0042	0.152	470	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00034	1.0367
Paving Equipment	4	100	36	0.260	0.060	0.008	0.008	3.700	0.005	0.0042	0.153	473	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00034	1.0432
Paving Roller	4	50	38	2.740	0.120	0.008	0.008	3.700	0.005	0.0042	0.080	568	0.0060	0.0003	0.0000	0.0000	0.0082	0.00001	0.00001	0.00018	1.2529
Scraper-1	4	475	48	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.152	471	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0393
Scraper-2	4	475	48	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.152	471	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0393
Water Truck-1	4	400	38	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.154	475	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0477

Offsite Transportation			Emission Factors (g/mile)									Emission Factors (lb/mile)								
Source	Tier	Region	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	--	San Joaquin Valley	0.0324	0.0056	0.0009	0.0009	0.6303	0.0026	0.0040	0.0016	267.0	0.0001	0.0000	0.0000	0.0000	0.0014	0.00001	0.00001	0.00000	0.5885
Light-Duty Truck - LDT2 (offsite)	--	San Joaquin Valley	0.0409	0.0088	0.0046	0.0044	0.0842	0.0025	0.0411	0.0004	260.9	0.0001	0.0000	0.0000	0.0000	0.0002	0.00001	0.00009	0.00000	0.5753
Med-Heavy Duty - T6 Utility (offsite)	--	San Joaquin Valley	0.2187	0.0036	0.0041	0.0039	0.0215	0.0092	0.1526	0.0002	969	0.0005	0.0000	0.0000	0.0000	0.0000	0.00002	0.00034	0.00000	2.1352
Heavy Duty Trucks - T7TC (offsite)	--	San Joaquin Valley	0.9793	0.0090	0.0232	0.0222	0.0518	0.0144	0.2399	0.0004	1523	0.0022	0.0000	0.0001	0.0000	0.0001	0.00003	0.00053	0.00000	3.3571

Offsite Dust - Mobile Sources			Emission Factors (g/mile)		Emission Factors (lb/mile)	
Source	Tier	Region	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	--	San Joaquin Valley	5.1564	1.2895	0.011368	0.002843
Light-Duty Truck - LDT2 (offsite)	--	San Joaquin Valley	5.1573	1.2898	0.011370	0.002843
Med-Heavy Duty - T6 Utility (offsite)	--	San Joaquin Valley	5.1971	1.3037	0.011458	0.002874
Heavy Duty Trucks - T7TC (offsite)	--	San Joaquin Valley	5.2221	1.3125	0.011513	0.002894

Notes:

- Equipment list and engine sizes estimated.
- Equipment criteria pollutant emission factors and load factors were obtained from CalEEMod, Appendix D 2020.
- N₂O emission factors for equipment were obtained from *CFR Part 98 Table C-2 and CalEEMod Appendix D 2020*.
- CO₂ and CH₄ emission factors for construction equipment were obtained from *CalEEMod Appendix D 2020*.
- Vehicle emissions factors obtained from EMFAC-2021

COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 1: OPERATIONAL EMISSIONS SUMMARY

Model Run: March 20, 2025

Source	Peak Day Emissions (lbs/day)													Annual Emissions (tons/yr)													
	NO _x	ROG	PM ₁₀ E	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E	PM _{2.5} D	PM _{2.5} T	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀ E	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E	PM _{2.5} D	PM _{2.5} T	CO	SO ₂	N ₂ O	CH ₄	CO ₂	MTCO ₂ e
Operational Phase Without New Vehicle Trip Emissions	2.50	17.01	0.02	0.000	0.025	0.031	0.000	0.031	298	0.012	0.026	8.66	923	0.076	0.201	0.0016	0.000	0.002	0.002	0.000	0.002	7.74	0.0004	0.0005	1.22	73.5	97.8
Operational Phase New Vehicle Trip Emissions*	4.43	0.378	0.111	24.6	24.7	0.104	6.21	6.31	36.3	0.220	1.389	0.091	22,586	0.524	0.065	0.015	4.22	4.24	0.014	1.06	1.08	6.61	0.033	0.128	0.016	3,327	3,050
Total Operational Phase Emissions	6.9	17.39	0.136	24.6	24.8	0.135	6.21	6.3	334	0.232	1.41	8.8	23,509	0.600	0.267	0.017	4.22	4.24	0.016	1.06	1.08	14.4	0.033	0.129	1.24	3,400	3,148
SJVAPCD Operational Significance Thresholds	--	--	--	--	--	--	--	--	--	--	--	--	--	10	10	--	--	15	--	--	15	100	27	--	--	--	--
Threshold exceeded?	--	--	--	--	--	--	--	--	--	--	--	--	--	No	No	--	--	No	--	--	No	No	No	--	--	--	--
Total Yearly DPM Emissions From Onsite Diesel Engine Exhaust, tons**																0.0003	--	--	--	--	--	--	--	--	--		
GHG - MTCO ₂ E conversions																								273	28	1	--
Total Operational Phase MTCO ₂ E/yr																								3,148			
Amortized Construction Phase Emissions																								14.9			
Total Operational Phase + Amortized Construction Phase Emissions MTCO ₂ E/yr																								3,163			

Notes:

- Global Warming Potentials (273 for N₂O, 27.9 for CH₄, and 1 for CO₂, Table 7.SM.6, Intergovernmental Panel on Climate Change (IPCC). 2021. Sixth Assessment Report

MTCO₂E - Metric Tons of Carbon Dioxide Equivalent

SJVAPCD - San Joaquin Valley Air Pollution Control District

NO_x - Oxides of Nitrogen

ROG - Reactive Organic Gases

PM_{2.5} - Particulate Matter 2.5 Microns or Less. An **E** suffix - indicates exhaust, **D** suffix indicates dust and **T** suffix indicates total emissions.

PM₁₀ - Particulate Matter 10 Microns or Less. An **E** suffix - indicates exhaust, **D** suffix indicates dust and **T** suffix indicates total emissions.

DPM - Diesel Particulate Matter

CO - Carbon Monoxide

SO₂ - Sulfur Dioxide

N₂O - Nitrous Oxide

CH₄ - Methane

CO₂ - Carbon Dioxide

* - Includes vehicle emissions from facilities operation such as deliveries and maintenance. A majority of these emissions occur offsite and away from adjacent sensitive receptors.

** - Onsite DPM emissions were calculated with the assumption that each diesel vehicle would drive at least 0.5 miles onsite. Diesel vehicles were also assumed to idle onsite for at least five minutes.

VOCs emissions from Gasoline and Diesel Underground Storage Tanks included in ROG emissions to be conservative.

Assumptions:

Operations assumed 7 days per week.

COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS

TABLE 2: Operations

Landscaping Equipment Sources

						Emission Factors (g/bhp-hr)									Emissions (lb/day)								Total Emissions (tons)									
Source	BHP	Load Factor	Number	Hours/ Day	Duration (days)	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Riding Lawn Mower	25	38	3	8	52	2.265	5.266	0.008	0.010	305.040	0.011	0.005	0.026	623.788	1.138	2.647	0.004	0.005	153.3	0.006	0.003	0.013	313.5	0.030	0.069	0.000	0.000	3.987	0.00014	0.0001	0.0003	8.1522
Trimmer	5	91	2	8	52	1.850	6.648	0.076	0.101	304.458	0.012	0.007	0.034	808.574	0.297	1.067	0.012	0.016	48.9	0.002	0.001	0.005	129.8	0.008	0.028	0.000	0.000	1.270	0.00005	0.0000	0.0001	3.3741
Leaf Blower	5	94	2	8	52	2.693	6.132	0.008	0.010	257.695	0.010	0.006	0.028	658.309	0.446	1.017	0.001	0.002	42.7	0.002	0.001	0.005	109.1	0.012	0.026	0.000	0.000	1.111	0.00004	0.0000	0.0001	2.8376
Other Landscape Equipment	5	58	4	8	52	2.691	6.126	0.008	0.010	257.697	0.010	0.006	0.028	658.309	0.551	1.253	0.002	0.002	52.7	0.002	0.001	0.006	134.7	0.014	0.033	0.000	0.000	1.371	0.00005	0.0000	0.0001	3.5017
Total						2.43	5.98	0.019	0.025	298	0.011	0.006	0.029	687	0.063	0.156	0.0005	0.001	7.739	0.0003	0.0002	0.001	17.9									

On-Road Sources

						Emission Factors (g/mile)									Peak Day Emissions (lb/day)									Total Emissions (tons)								
Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	1	1	2584	10	365	0.0324	0.0056	0.0009	0.0009	0.6303	0.0026	0.0040	0.0016	267.0	1.844	0.321	0.054	0.050	35.900	0.150	0.226	0.0886	15205.1	0.337	0.059	0.010	0.009	6.552	0.027	0.041	0.016	2775
Light-Duty Truck - LDT2 (offsite)	1	1	136	10	365	0.0409	0.0088	0.0046	0.0044	0.0842	0.0025	0.0411	0.0004	260.9	0.123	0.026	0.014	0.013	0.252	0.007	0.123	0.0012	782.3	0.022	0.005	0.003	0.002	0.046	0.001	0.022	0.000	143
Passenger Vehicle - EV LDA (offsite)	1	1	26	10	365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00001	0.1418	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	
Light-Duty Truck - EV LDT2 (offsite)	1	1	1	10	365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00001	0.1418	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	
Med-Heavy Duty - T6 Utility (offsite)	1	1	32	25	52	0.2187	0.0036	0.0041	0.0039	0.0215	0.0092	0.1526	0.0002	968.5	0.386	0.006	0.007	0.007	0.038	0.016	0.269	0.0003	1708.2	0.010	0.000	0.000	0.000	0.001	0.000	0.007	0.000	44.41
Heavy Duty Trucks - T7TC (offsite)	1	1	8	25	52	0.6279	0.0072	0.0110	0.0105	0.0373	0.0140	0.2330	0.0003	1478.9	0.277	0.003	0.005	0.005	0.016	0.006	0.103	0.0001	652.1	0.007	0.000	0.000	0.000	0.000	0.000	0.003	0.000	16.95
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	156	0.6279	0.0072	0.0110	0.0105	0.0373	0.0140	0.2330	0.0003	1478.9	0.277	0.003	0.005	0.005	0.016	0.006	0.103	0.0001	652.1	0.022	0.000	0.000	0.000	0.001	0.000	0.008	0.000	50.86
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	156	0.6279	0.0072	0.0110	0.0105	0.0373	0.0140	0.2330	0.0003	1478.9	0.277	0.003	0.005	0.005	0.016	0.006	0.103	0.0001	652.1	0.022	0.000	0.000	0.000	0.001	0.000	0.008	0.000	50.86
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	52	0.6279	0.0072	0.0110	0.0105	0.0373	0.0140	0.2330	0.0003	1478.9	0.138	0.002	0.002	0.008	0.003	0.051	0.0001	326.0	0.004	0.000	0.000	0.000	0.000	0.000	0.001	0.000	8.48	
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	52	0.6279	0.0072	0.0110	0.0105	0.0373	0.0140	0.2330	0.0003	1478.9	0.277	0.003	0.005	0.005	0.016	0.006	0.103	0.0001	652.1	0.007	0.000	0.000	0.000	0.000	0.000	0.003	0.000	16.95
Heavy Duty Trucks - T7TC (offsite)	1	1	8	50	312	0.6279	0.0072	0.0110	0.0105	0.0373	0.0140	0.2330	0.0003	1478.9	0.554	0.006	0.010	0.009	0.033	0.012	0.205	0.0003	1304.1	0.086	0.001	0.002	0.001	0.005	0.002	0.032	0.000	203.45
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	52	0.6279	0.0072	0.0110	0.0105	0.0373	0.0140	0.2330	0.0003	1478.9	0.277	0.003	0.005	0.005	0.016	0.006	0.103	0.0001	652.1	0.007	0.000	0.000	0.000	0.000	0.000	0.003	0.000	16.95
Total						4.4	0.38	0.111	0.104	36	0.220	1.39	0.091	22,586	0.52	0.065	0.015	0.014	6.6	0.033	0.128	0.016	3,327									

On-Road Sources - Within Development Only

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	2584	10	365	0.3706	0.0930	21.107876	5.297756043	3.852187	0.966840
Light-Duty Truck - LDT2 (offsite)	1	1	136	10	365	0.3715	0.0933	1.113594	0.279757951	0.203231	0.051056
Passenger Vehicle - EV LDA (offsite)	1	1	26	10	365	0.3691	0.0925	0.212355	0.053212993	0.038755	0.009711
Light-Duty Truck - EV LDT2 (offsite)	1	1	1	10	365	0.3691	0.0925	0.011176	0.002800647	0.002040	0.000511
Med-Heavy Duty - T6 Utility (offsite)	1	1	32	25	52	0.4113	0.1073	0.725476	0.189199539	0.018862	0.004919
Heavy Duty Trucks - T7TC (offsite)	1	1	8	25	52	0.4366	0.1161	0.192501	0.051196199	0.005005	0.001331
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	156	0.4366	0.1161	0.192501	0.051196199	0.015015	0.003993
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	156	0.4366	0.1161	0.192501	0.051196199	0.015015	0.003993
Heavy Duty Trucks - T7TC (offsite)	1	1	2	50	52	0.4366	0.1161	0.096251	0.025598099	0.002503	0.000666
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	52	0.4366	0.1161	0.192501	0.051196199	0.005005	0.001331
Heavy Duty Trucks - T7TC (offsite)	1	1	8	50	312	0.4366	0.1161	0.385003	0.102392398	0.060060	0.015973
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	52	0.4366	0.1161	0.192501	0.051196199	0.005005	0.001331
Total						25	6.2	4.2	1.06		

Land Use Sources

Electricity Use (Land Use)			Emission Factor (lb/kWh)			Emissions (lb/kWh/day)			Emissions (tons/kWh/yr)		
Source	Units	Electricity Use (kWh/sf/yr)	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂
Gasoline Station and Mini Mart	4,899	51,217	0.000004	0.000033	0.3486	0.00056	0.00463	48.92072	0.00010	0.00085	8.93
Food w/drive-thru	2,153	40,154	0.000004	0.000033	0.3486	0.00044	0.00363	38.35357	0.00008	0.00066	7.00
Food w/drive-thru	2,318	40,154	0.000004	0.000033	0.3486	0.00044	0.00363	38.35357	0.00008	0.00066	7.00
Parking Lot	150,914	876	0.000004	0.000033	0.3486	0.00001	0.00008	0.83673	0.00000	0.00001	0.15
Retail	28,330	10,351	0.000004	0.000033	0.3486	0.00011	0.00094	9.88652	0.00002	0.00017	1.80
Total						0.002	0.013	136	0.0003	0.002	24.9

Land Use Sources

Natural Gas Use (Land Use)			Emission Factors (g/kBTU)									Peak Day Emissions (lb/day)									Total Emissions (tons)									
Source	Units	Natural Gas Use (kBTU/sf/yr)	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	
Gasoline Station and Mini Mart	4,899	30,238	0.00009	0.00001	0.00001	0.00001	0.00004	0.00000	0.00000	0.00001	0.11698	0.0076	0.0004	0.0006	0.0006	0.0032	0.0000	0.0000	0.0009	9.7	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	1.77
Food w/drive-thru	2,153	121,851	0.00009	0.00001	0.00001	0.00001	0.00004	0.00000	0.00000	0.00001	0.11698	0.0308	0.0018	0.0025	0.0025	0.0131	0.0002	0.0001	0.0035	39.1	0.006	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.001	7.13
Food w/drive-thru	2,318	121,851	0.00009	0.00001	0.00001	0.00001	0.00004	0.00000	0.00000	0.00001	0.11698	0.0308	0.0018	0.0025	0.0025	0.0131	0.0002	0.0001	0.0035	39.1	0.006	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.001	7.13
Parking Lot	150,914	0.000	0.00009	0.00001	0.00001	0.00001	0.00004	0.00000	0.00000	0.00001	0.11698	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Retail	28,330	9,689	0.00009	0.00001	0.00001	0.00001	0.00004	0.00000	0.00000	0.00001	0.11698	0.0024	0.0001	0.0002	0.0002	0.0010	0.0000	0.0000	0.0003	3.11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.567
			Total									0.072	0.004	0.006	0.006	0.030	0.000	0.0002	0.008	91	0.013	0.001	0.001	0.001	0.006	0.000	0.000	0.001	16.6	

Land Use Sources

Electricity Use (Water Use)		Emission Factor (lb/kWh)			Emissions (lb/kWh/day)			Emissions (tons/kWh/yr)		
Source	Water Use/Year	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂
Gasoline Station and Mini Mart	460,903	0.000004	0.000033	0.3486	0.000000	0.000000	0.00173	0.0000000	0.0000000	0.00032
Food w/drive-thru	653,508	0.000004	0.000033	0.3486	0.000000	0.000000	0.00246	0.0000000	0.0000000	0.00045
Food w/drive-thru	703,591	0.000004	0.000033	0.3486	0.000000	0.000000	0.00265	0.0000000	0.0000000	0.00048
Landscaping	423,646	0.000004	0.000033	0.3486	0.000000	0.000000	0.00159	0.0000000	0.0000000	0.00029
Parking Lot	0	0.000004	0.000033	0.3486	0.000000	0.000000	0.00000	0.0000000	0.0000000	0.00000
Retail	2,098,475	0.000004	0.000033	0.3486	0.000000	0.000001	0.00790	0.0000000	0.0000001	0.00144
Total					0.000000	0.000002	0.0163	0.0000000	0.000000	0.003

Wastewater Treatment		Emission Factor (lb/gal)			Emissions (pound/day)			Emissions (tons/year)		
Source	Wastewater Generated (gallons/yr)	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂
Gasoline Station and Mini Mart	460,903	0.0000017	0.0008020	0.0007800	0.0022	1.0127	0.9849	0.00000	0.00051	0.00049
Food w/drive-thru	653,508	0.0000017	0.0008020	0.0007800	0.0031	1.4359	1.3965	0.00000	0.00072	0.00070
Food w/drive-thru	703,591	0.0000017	0.0008020	0.0007800	0.0033	1.5460	1.5036	0.00000	0.00077	0.00075
Landscaping	0	0.0000017	0.0008020	0.0007800	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000
Parking Lot	0	0.0000017	0.0008020	0.0007800	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000
Retail	2,098,475	0.0000017	0.0008020	0.0007800	0.0098	4.6109	4.4844	0.00000	0.00231	0.00224
Total					0.0183	8.6	8.4	0.0000	0.004	0.004

Solid Waste		Emission Factor (tons/ton)		Emissions (pound/day)		Emissions (tons/year)	
Source	Solid Waste Generated (tons/yr)	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂
Gasoline Station and Mini Mart	14.0	0.00844	0.09846	0.0004	0.0042	0.1184	1.38
Food w/drive-thru	18.6	0.00844	0.09846	0.0005	0.0055	0.1569	1.83
Food w/drive-thru	20.0	0.00844	0.09846	0.0005	0.0060	0.1690	1.97
Parking Lot	0.000	0.00844	0.09846	0.0000	0.0000	0.0000	0.000
Retail	91.4	0.00844	0.09846	0.0023	0.0272	0.7711	9.00
Total				0.00	0.043	1.22	14.2

Gasoline Underground Storage Tank VOCs - Yearly

VOC Subatances	Phase I Loading (vapor) (lb/yr)	Phase II Breathing (vapor) (lb/yr)	Phase II Fueling (vapor) (lb/yr)	Phase II Spillage (liquid) (lb/yr)	Phase II Hose Permeation (vapor) (lb/yr)	Phase I Loading (vapor) (tons/yr)	Phase II Breathing (vapor) (tons/yr)	Phase II Fueling (vapor) (tons/yr)	Phase II Spillage (liquid) (tons/yr)	Phase II Hose Permeation (vapor) (tons/yr)
Benzene	0.686	0.110	0.407	1.70	0.041	0.00034	0.00005	0.00020	0.00085	0.00002
Ethyl Benzene	0.161	0.026	0.095	3.10	0.010	0.00008	0.00001	0.00005	0.00155	0.00000
Hexane	2.73	0.437	1.62	4.54	0.164	0.00137	0.00022	0.00081	0.00227	0.00008
Naphthalene	0.0007	0.0001	0.0004	0.418	0.00004	0.00000	0.00000	0.00000	0.00021	0.00000
Propylene (propene)	0.005	0.001	0.003	0.0003	0.0003	0.00000	0.00000	0.00000	0.00000	0.00000
Toluene	1.67	0.266	0.99	13.5	0.100	0.00083	0.00013	0.00049	0.00676	0.00005
Xylenes	0.614	0.098	0.364	15.8	0.037	0.00031	0.00005	0.00018	0.00791	0.00002
Total VOCs*						0.025				

Gasoline Underground Storage Tank VOCs - Hourly

VOC Subatances	Phase I Loading (vapor) (lb/hr)	Phase II Breathing (vapor) (lb/hr)	Phase II Fueling (vapor) (lb/hr)	Phase II Spillage (liquid) (lb/hr)	Phase II Hose Permeation (vapor) (lb/hr)
Benzene	0.0072	0.0001	0.0005	0.0017	0.00005
Ethyl Benzene	0.0014	0.00003	0.0011	0.0031	0.00001
Hexane	0.0240	0.00044	0.0017	0.0045	0.00016
Naphthalene	0.00001	0.0000001	0.0002	0.0004	0.00000004
Propylene (propene)	0.00005	0.0000009	0.0000001	0.0000003	0.000000
Toluene	0.018	0.0003	0.001	0.014	0.0001
Xylenes	0.007	0.0001	0.000	0.017	0.00005
Total VOCs*					

Diesel Underground Storage Tank VOCs - Yearly

VOC Subatances	Phase I Loading (vapor) (lb/yr)	Phase II Breathing (vapor) (lb/yr)	Phase II Fueling (vapor) (lb/yr)	Phase II Spillage (liquid) (lb/yr)	Phase II Hose Permeation (vapor) (lb/yr)	Phase I Loading (vapor) (Tons/yr)	Phase II Breathin g (vapor) (Tons/yr)	Phase II Fueling (vapor) (Tons/yr)	Phase II Spillage (liquid) (Tons/yr)	Phase II Hose Permeation (vapor) (Tons/yr)
2,2,4-Trimethyl Pentane	0.0266	0.0064	0.168	0.029	0.001	0.00001	0.00000	0.00008	0.00001	0.00000
1,2,4-Trimethyl Benzene	1.3262	0.3211	8.376	1.466	0.031	0.00066	0.00016	0.00419	0.00073	0.00002
Benzene	0.0152	0.0037	0.096	0.017	0.000	0.00001	0.00000	0.00005	0.00001	0.00000
Biphenyl	0.4446	0.1076	2.808	0.491	0.011	0.00022	0.00005	0.00140	0.00025	0.00001
Cumene	0.2128	0.0515	1.344	0.235	0.005	0.00011	0.00003	0.00067	0.00012	0.00000
Ethyl Benzene	0.2014	0.0488	1.272	0.223	0.005	0.00010	0.00002	0.00064	0.00011	0.00000
Hexane	0.1140	0.0276	0.720	0.126	0.003	0.00006	0.00001	0.00036	0.00006	0.00000
Naphthalene	1.0830	0.2622	6.840	1.197	0.026	0.00054	0.00013	0.00342	0.00060	0.00001
Toluene	0.3078	0.0745	1.944	0.340	0.007	0.00015	0.00004	0.00097	0.00017	0.00000
Xylenes	0.9158	0.2217	5.784	1.012	0.022	0.00046	0.00011	0.00289	0.00051	0.00001
Total VOCs*	40.4					0.020				

Diesel Underground Storage Tank VOCs - Hourly

VOC Subatances	Phase I Loading (vapor) (lb/hr)	Phase II Breathing (vapor) (lb/hr)	Phase II Fueling (vapor) (lb/hr)	Phase II Spillage (liquid) (lb/hr)	Phase II Hose Permeation (vapor) (lb/hr)
2,2,4-Trimethyl Pentane	0.0002	0.0001	0.001	0.0003	0.00001
1,2,4-Trimethyl Benzene	0.0117	0.0028	0.074	0.0129	0.00028
Benzene	0.0001	0.0000	0.001	0.0001	0.00000
Biphenyl	0.0039	0.0009	0.025	0.0043	0.00009
Cumene	0.0019	0.0005	0.012	0.0021	0.00004
Ethyl Benzene	0.0018	0.0004	0.011	0.0020	0.00004
Hexane	0.0010	0.0002	0.006	0.0011	0.00002
Naphthalene	0.0095	0.0023	0.060	0.0105	0.00023
Toluene	0.0027	0.0007	0.017	0.0030	0.00006
Xylenes	0.0081	0.0020	0.051	0.0089	0.00019
Total VOCs*	0.36				

- Notes:**
- VOCs - Volatile Organic Compounds
 - BHP - Break Horse Power
 - NO_x - Oxides of Nitrogen
 - ROG - Reactive Organic Gases
 - PM_{2.5} - Particulate Matter 2.5 Microns or Less.
 - PM₁₀ - Particulate Matter 10 Microns or Less.
 - CO - Carbon Monoxide
 - SO₂ - Sulfur Dioxide
 - N₂O - Nitrous Oxide
 - CH₄ - Methane
 - CO₂ - Carbon Dioxide
 - * - May not include other potential VOCs.
 - Square footage and number of units provided by client
 - Daily trips for LDA and LDT2 were estimated from peak AM and PM traffic data obtained from the Draft Traffic Evaluation and Vehicle Miles Traveled Assessment for the Hub Project (C2 Consult Corp, 2024).
 - Round trips for medium and heavy duty trucks were estimated.
 - Assumes 1% of LDA and LDT2 will be electric vehicles.
 - Assumes 15 mile round trips for LDA and LDT2.
 - Assumes 25 to 50 mile round trips for medium and heavy duty trucks.

COPPER RIDGE COMMERCIAL DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 3: Operational Emission Factors and Assumptions

Onsite Maintenance

				Emission Factors (g/bhp-hr)								Emission Factors (lb/bhp-hr)									
Source	Tier	Operational Horsepower	Load Factor	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Riding Lawn Mower	--	25	38	2.265	5.266	0.008	0.010	305.040	0.011	0.005	0.026	624	0.0050	0.0116	0.0000	0.0000	0.6725	0.00002	0.00001	0.00006	1.3752
Trimmer	--	5	91	1.850	6.648	0.076	0.101	304.458	0.012	0.007	0.034	809	0.0041	0.0147	0.0002	0.0002	0.6712	0.00003	0.00002	0.00007	1.7826
Leaf Blower	--	5	94	2.693	6.132	0.008	0.010	257.695	0.010	0.006	0.028	658	0.0059	0.0135	0.0000	0.0000	0.5681	0.00002	0.00001	0.00006	1.4513
Other Landscape Equipment	--	5	58	2.691	6.126	0.008	0.010	257.697	0.010	0.006	0.028	658	0.0059	0.0135	0.0000	0.0000	0.5681	0.00002	0.00001	0.00006	1.4513

Offsite Emissions - Mobile Sources

Source	Tier	Region	Emission Factors (g/mile)									Emission Factors (lb/mile)								
			NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	--	San Joaquin Valley	0.0324	0.0056	0.0009	0.0009	0.6303	0.0026	0.0040	0.0016	267	0.0001	0.0000	0.0000	0.0000	0.0014	0.00001	0.00001	0.00000	0.5885
Passenger Vehicle - EV LDA (offsite)	--	San Joaquin Valley	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000002	0.000013	0.142	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0003
Light-Duty Truck - LDT2 (offsite)	--	San Joaquin Valley	0.0409	0.0088	0.0046	0.0044	0.0842	0.0025	0.0411	0.0004	261	0.0001	0.0000	0.0000	0.0000	0.0002	0.00001	0.00009	0.00000	0.5753
Light-Duty Truck - EV LDT2 (offsite)	--	San Joaquin Valley	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000002	0.000013	0.142	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0003
Med-Heavy Duty - T6 Utility (offsite)	--	San Joaquin Valley	0.2187	0.0036	0.0041	0.0039	0.0215	0.0092	0.1526	0.0002	969	0.0005	0.0000	0.0000	0.0000	0.0000	0.00002	0.00034	0.00000	2.1352
Heavy Duty Trucks - T7TC (offsite)	--	San Joaquin Valley	0.6279	0.0072	0.0110	0.0105	0.0373	0.0140	0.2330	0.0003	1479	0.0014	0.0000	0.0000	0.0000	0.0001	0.00003	0.00051	0.00000	3.2604

Offsite Dust - Mobile Sources

Source	Tier	Region	Emission Factors (g/mile)		Emission Factors (lb/mile)	
			PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	--	San Joaquin Valley	0.3706	0.0930	0.000817	0.000205
Passenger Vehicle - EV LDA (offsite)	--	San Joaquin Valley	0.3691	0.0925	0.000814	0.000204
Light-Duty Truck - LDT2 (offsite)	--	San Joaquin Valley	0.3715	0.0933	0.000819	0.000206
Light-Duty Truck - EV LDT2 (offsite)	--	San Joaquin Valley	0.3691	0.0925	0.000814	0.000204
Med-Heavy Duty - T6 Utility (offsite)	--	San Joaquin Valley	0.4113	0.1073	0.000907	0.000237
Heavy Duty Trucks - T7TC (offsite)	--	San Joaquin Valley	0.4366	0.1161	0.000963	0.000256

Offsite Energy Consumption

Source	Energy Consumption (kWh/mile)
Passenger Vehicle - EV LDA (offsite)	0.40674
Light-Duty Truck - EV LDT2 (offsite)	0.40674

Recycling and Composting

Recycling and Composting Program	Percentage of Waste Recycled or Composted
	25

Electricity and Natural Gas Use by Land Use

Source	kWhr/Unit/Year	kBtu/Unit/Year
	Electricity	Natural Gas
Gasoline Station and Mini Mart	51,217	30,238
Food w/drive-thru	40,154	121,851
Food w/drive-thru	40,154	121,851
Parking Lot	876	0.000
Retail	10,351	9,689

Electricity Emission Factors

Source	Electricity Source	Emission Factors (lb/kWhr)		
		N ₂ O	CH ₄	CO ₂
Electricity Usage	Southern California Edison	0.000004	0.00003	0.3486

Natural Gas Emissions Factors

		Emission Factors, g/kBTU									Emission Factors (lb/kBTU)								
Source	Electricity Source	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Natural Gas Residential	California Gas Company	0.041802	0.002446	0.003380	0.003380	0.017788	0.000267	0.000100	0.004696	53.059937	0.000092	0.000005	0.000007	0.000007	0.000039	0.000001	0.000000	0.000010	0.116977
Natural Gas Commercial	California Gas Company	0.044470	0.002446	0.003380	0.003380	0.037355	0.000267	0.000100	0.004696	53.059937	0.000092	0.000005	0.000007	0.000007	0.000039	0.000001	0.000000	0.000010	0.116977

Water Energy-Intensity Factor

Source	kWh/Gal
Project Site	0.00394

Solid Waste Disposal Rate

Source	Region	Rate (Tons/Year)
Gasoline Station and Mini Mart	Statewide	19
Food w/drive-thru	Statewide	25
Food w/drive-thru	Statewide	27
Parking Lot	Statewide	0
Retail	Statewide	122

Solid Waste Emissions Factors

Landfill Type	CH ₄ (tons/ton)	CO ₂ (tons/ton)
No Landfill Gas Collection	0.0084	0.0985

Water Use Rates

Source	Units or Square Feet	Indoor Water Use (gal/unit or Square Feet per yr)	Outdoor Water Use (gal/unit or gal/Square Feet per yr)	Water Use		
				Total Indoor Water Use (gal)	Total Outdoor Water Use (gal)	Total Water Use (gal)
Gasoline Station and Mini Mart	4,899	94	0.000	460,903	0.000	460,903
Food w/drive-thru	2,153	304	0.000	653,508	0.000	653,508
Food w/drive-thru	2,318	304	0.000	703,591	0.000	703,591
Landscaping	35,000	0.000	12.1	0.00	423,646	423,646
Parking Lot	150,914	0.000	0.000	0.000	0.000	0.000
Retail	28,330	74	0.000	2,098,475	0.000	2,098,475
Total				3,916,477	423,646	4,340,123

Wastewater Treatment

Source	Emission Factor (lb/gal)		
	N ₂ O	CH ₄	CO ₂
Wastewater Treatment	0.0000017	0.000802	0.00078

Climate Zone

Zone
Climate Zone 4

Gasoline Underground Storage Tank VOCs Factors with EVR

Source	EVR Emission Factor (lbs/kgal)	VOC Rate (lbs/hr)	VOC Rate (lbs/yr)
Loading	0.150	0.0171	150
Breathing	0.024	0.0027	24.0
Fueling ORVR	0.089	0.0102	89.0
Spillage	0.240	0.0274	240
Hose Permeation	0.009	0.0010	9

Gasoline VOCs	Summer and Winter		Summer	
	By Weight % Vapor	By Weight % Liquid	By Weight % Vapor	By Weight % Liquid
Subatance	Emission Factor (lbs/lb)	Emission Factor (lbs/lb)	Emission Factor (lbs/lb)	Emission Factor (lbs/lb)
Benzene	0.00457	0.00707	0.00549	0.00702
Ethyl Benzene	0.00107	0.0129	NA	NA
Hexane	0.0182	0.0189	NA	NA
Naphthalene	0.000004	0.00174	NA	NA
Propylene (propene)	0.000036	0.000001	NA	NA
Toluene	0.0111	0.0563	0.0135	0.058
Xylenes	0.00409	0.0659	0.00509	0.0691

Diesel Underground Storage Tank VOCs Factors Pre-EVR

Source	EVR Emission Factor (lbs/kgal)	VOC Rate (lbs/hr)	VOC Rate (lbs/yr)
Loading	0.380	0.0434	380
Breathing	0.092	0.0105	92
Fueling Non-ORVR	2.400	0.2740	2400
Spillage	0.420	0.0479	420
Hose Permeation	0.009	0.0010	9

Diesel VOCs	Annual
	By Weight % Vapor
Subatance	Emission Factor (lbs/lb)
2,2,4-Trimethyl Pentane	0.00007
1,2,4-Trimethyl Benzene	0.00349
Benzene	0.00004
Biphenyl	0.00117
Cumene	0.00056
Ethyl Benzene	0.00053
Hexane	0.0003
Naphthalene	0.002850
Toluene	0.00081
Xylenes	0.00241

Station Throughput

Subatance	kgal/yr
Gasoline	1,000
Diesel	1,000

Notes:

EVR - Enhanced Vapor Recovery

ORVR - Onboard Refueling Vapor Recovery

VOCs - Volatile Organic Compounds

- Equipment list and engine sizes estimated.

- Equipment criteria pollutant emission factors and load factors were obtained from CalEEMod, Appendix D 2020 and CalEEMod, Appendix G, 2022.

- Electricity and Natural Gas Emission Factors were obtained from CalEEMod, Appendix G 2022.

- Electricity Use by Land Use obtained from CalEEMod, Appendix G 2022.

- N₂O emission factors for equipment were obtained from *CFR Part 98 Table C-2 and CalEEMod Appendix D- 20164*.

- CO₂ and CH₄ emission factors for equipment were obtained from *CalEEMod Appendix G 2022*.

- CO₂ and CH₄ emission were obtained from *CalEEMod Appendix G 2022*.

- Vehicle emissions factors obtained from EMFAC-2021

- Solid waste and waste water emission factors and waste disposal rates obtained from CalEEMod Appendix G 2022

- Water use rates and wastewater treatment rates obtained from CalEEMod Appendix G 2022

- Waste disposal rates obtained from CalEEMod Appendix G 2022

- Diesel underground storage tank emissions factors obtained from Emissions Estimation Protocol for Petroleum Refineries, Appendix A, Table A-1 , U.S. Environmental Protection Agency, 2015.

- Gasoline underground storage tank emissions factors obtained from Gasoline Service Station Industrywide Risk Assessment Technical Guidance, Tables 9, 11 and 12 , California Air Resources Board and California Air Pollution Control Officers Association, 2022.

- Annual throughput provided by the client at approximately 1,040,000 gallon per year.

- Hourly throughput estimate obtained from Gasoline Service Station Industrywide Risk Assessment Technical Guidance, Table 10 , California Air Resources Board and California Air Pollution Control Officers Association, 2022..

* - Includes landscaping associated within the proposed mixed-use areas.

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 1: CONSTRUCTION EMISSIONS SUMMARY

Model Run: January 24, 2025

Source	Days*	Peak Day Emissions, lbs/day													Project Emissions, tons													MTCO ₂ e
		NO _x	ROG	PM ₁₀ E**	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E**	PM _{2.5} D	PM _{2.5} T	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀ E**	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E**	PM _{2.5} D	PM _{2.5} T	CO	SO ₂	N ₂ O	CH ₄	CO ₂	
Grading	22.5	3.85	0.738	0.113	31.6	31.7	0.112	3.22	3.33	29.0	0.071	0.228	1.841	6,872	0.036	0.008	0.001	0.515	0.516	0.001	0.078	0.080	0.320	0.001	0.001	0.020	66.8	61.3
Utilities	33	4.98	0.423	0.091	17.0	17.1	0.089	1.94	2.03	17.4	0.060	0.495	0.777	5,979	0.052	0.006	0.001	0.269	0.270	0.001	0.042	0.043	0.253	0.001	0.003	0.011	57.8	53.4
Vertical Construction	150	5.64	0.148	0.079	15.7	15.7	0.076	2.00	2.08	3.81	0.061	0.909	0.066	6,320	0.235	0.009	0.002	1.821	1.824	0.002	0.288	0.290	0.276	0.002	0.026	0.005	208	195
Flatwork and Paving	33	12.01	2.08	0.214	9.56	9.77	0.208	1.57	1.78	26.9	0.140	1.578	1.344	14,330	0.141	0.016	0.003	0.141	0.144	0.003	0.026	0.029	0.300	0.002	0.020	0.016	175	164
Interior Finishing	44	3.23	0.448	0.050	1.95	2.00	0.049	0.494	0.543	9.76	0.036	0.324	0.111	3,567	0.046	0.009	0.0007	0.034	0.035	0.001	0.009	0.009	0.172	0.0005	0.003	0.002	47.8	44.2
Exterior Finishing	22	2.74	0.652	0.046	1.62	1.66	0.044	0.411	0.456	8.89	0.033	0.297	0.100	3,259	0.022	0.007	0.0003	0.014	0.014	0.0003	0.003	0.004	0.097	0.0002	0.001	0.001	24.0	22.1
Peak Day Emissions, lb/day		12.0	2.08	0.214	31.6	31.7	0.21	3.22	3.33	29.0	0.140	1.58	1.84	14,330	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Project Year -1 Emissions, tons															0.533	0.055	0.008	2.795	2.803	0.008	0.447	0.454	1.419	0.006	0.054	0.056	579	541
Project Year -2 Emissions, tons															0.533	0.055	0.008	2.795	2.803	0.008	0.447	0.454	1.419	0.006	0.054	0.056	579	541
Project Year -3 Emissions, tons															0.533	0.055	0.008	2.795	2.803	0.008	0.447	0.454	1.419	0.006	0.054	0.056	579	541
Project Year -4 Emissions, tons															0.533	0.055	0.008	2.795	2.803	0.008	0.447	0.454	1.419	0.006	0.054	0.056	579	541
SJVAPCD Significance Thresholds															10	10	--	--	15	--	--	15	100	27	--	--	--	--
Threshold exceeded?															No	No	--	--	No	--	--	No	No	No	--	--	--	--
Total Project Emissions, tons															2.13	0.220	0.031	11.2	11.2	0.030	1.79	1.82	5.67	0.023	0.216	0.224	2,318	2,162
Project Year -1 DPM Emissions From Onsite Equipment, tons																	0.0018	--	--	--	--	--	--	--	--	--	--	
Project Year -2 DPM Emissions From Onsite Equipment, tons																	0.0018	--	--	--	--	--	--	--	--	--	--	
Project Year -3 DPM Emissions From Onsite Equipment, tons																	0.0018	--	--	--	--	--	--	--	--	--	--	
Project Year -4 DPM Emissions From Onsite Equipment, tons																	0.0018	--	--	--	--	--	--	--	--	--	--	
Total DPM Emissions From Onsite Equipment, tons																	0.00725	--	--	--	--	--	--	--	--	--	--	
																								273	27.9	1	--	
																								2,162				

Notes:
- Global Warming Potentials (273 for N₂O, 27.9 for CH₄, and 1 for CO₂, Table 7.SM.6, Intergovernmental Panel on Climate Change (IPCC). 2021. Sixth Assessment Report
SJVAPCD - San Joaquin Valley Air Pollution Control District
MTCO₂e - Metric Tons of Carbon Dioxide Equivalent
NO_x - Oxides of Nitrogen
ROG - Reactive Organic Gases
PM_{2.5} - Particulate Matter 2.5 Microns or Less. An **E** suffix - indicates exhaust, **D** suffix indicates dust and **T** suffix indicates total emissions.
PM₁₀ - Particulate Matter 10 Microns or Less. An **E** suffix - indicates exhaust, **D** suffix indicates dust and **T** suffix indicates total emissions.
DPM - Diesel Particulate Matter
CO - Carbon Monoxide
SO₂ - Sulfur Dioxide
N₂O - Nitrous Oxide
CH₄ - Methane
CO₂ - Carbon Dioxide
* - Four years of construction.
** - Includes emissions from onroad vehicles operating offsite and away from adjacent sensitive receptors.

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 2: Grading

On-Site Sources

Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	Emission Factors (g/bhp-hr)								Emissions (lb/day)								Total Emissions (tons)									
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄
Asphalt Fugitive	--	--	1	0.000	0	--	2.600	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Architectural Coating	--	--	1	0.000	0	--	50.000	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Backhoe	125	37	1	4	15	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.106	0.024	0.003	0.003	1.509	0.002	0.002	0.0620	191	0.001	0.000	0.000	0.000	0.011	0.000	0.000	1.44
Crane	250	29	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-1	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-2	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Dozer	200	43	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Excavator	160	38	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Generator-1	25	74	1	0	0	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Generator-2	25	74	1	0	0	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Grader	150	41	1	8	22.5	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.282	0.065	0.009	0.009	4.013	0.005	0.005	0.1681	519	0.003	0.001	0.000	0.000	0.045	0.000	0.000	5.84
Lift-1	50	20	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Lift-2	50	20	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Loader-1	250	36	1	6	22.5	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.310	0.071	0.010	0.010	2.619	0.006	0.005	0.1810	559	0.003	0.001	0.000	0.000	0.029	0.000	0.000	6.29
Loader-2	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Machine	100	42	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Equipment	100	36	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Roller	50	38	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Scraper-1	475	48	1	8	22.5	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	1.046	0.241	0.032	0.032	8.847	0.020	0.017	0.6112	1896	0.012	0.003	0.000	0.000	0.100	0.000	0.000	21.33
Scraper-2	475	48	1	8	22.5	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	1.046	0.241	0.032	0.032	8.847	0.020	0.017	0.6112	1896	0.012	0.003	0.000	0.000	0.100	0.000	0.000	21.33
Water Truck-1	400	38	1	4	22.5	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.349	0.080	0.011	0.011	2.949	0.007	0.006	0.2064	637	0.004	0.001	0.000	0.000	0.033	0.000	0.000	7.17
Total						3.137	0.72	0.10	0.097	28.783	0.060	0.051	1.840	5698	0.035	0.008	0.001	0.001	0.318	0.001	0.001	0.020	63.39								

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)									Peak Day Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	1	1	2	50	23	0.0455	0.0079	0.0010	0.0009	0.657	0.0027	0.0048	0.002	270	0.009	0.002	0.000	0.000	0.127	0.001	0.001	0.000	52.1	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.599
Light-Duty Truck - LDT2 (offsite)	1	1	5	50	23	0.0533	0.0093	0.0051	0.0049	0.094	0.0027	0.0446	0.000	283	0.031	0.005	0.003	0.003	0.055	0.002	0.026	0.000	164	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	1.882
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	7	0.2961	0.0041	0.0045	0.0043	0.023	0.0092	0.1526	0.000	969	0.003	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037	
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	1	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.112	0.001	0.002	0.002	0.006	0.001	0.025	0.000	158	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.079	
Heavy Duty Trucks - T7TC (offsite)	1	1	5	50	2	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.559	0.006	0.011	0.011	0.028	0.007	0.124	0.000	789	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.789	
						Total	0.71	0.01	0.02	0.02	0.21	0.011	0.178	0.001	1173	0.001	0.000	0.000	0.000	0.002	0.000	0.000	0.000	3.39								

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	2	50	23	0.4263	0.1069	0.082237	0.020629766	0.000946	0.000237
Light-Duty Truck - LDT2 (offsite)	1	1	5	50	23	0.4273	0.1073	0.247292	0.062092478	0.002844	0.000714
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	7	0.4642	0.1202	0.005117	0.001325191	0.000018	0.000005
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	1	0.4920	0.1299	0.054237	0.014323829	0.000027	0.000007
Heavy Duty Trucks - T7TC (offsite)	1	1	5	50	2	0.4920	0.1299	0.271183	0.071619143	0.000271	0.000072
						Total	0.660067	0.169990	0.004106	0.001035	

Notes:

Hours per day and durations estimated and approved by client.

Round trips for supplies deliveries, equipment and trash pickups estimated from within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

Round trips for fuel deliveries from Hanford area (approximatley 5-miles).

Round trips for LDA and LDT2 is estimated from within within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

* Asphalt in acres per day

* Architectural Coating in liters per day

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 3: Phase

On-Site Sources

Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	Emission Factors (g/bhp-hr)								Emissions (lb/day)								Total Emissions (tons)										
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Asphalt Fugitive	--	--	1	0.000	0	--	2.600	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	
Architectural Coating	--	--	1	0.000	0	--	50.000	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	
Backhoe	125	37	1	6	22	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.159	0.037	0.005	0.005	2.264	0.003	0.003	0.0930	287	0.002	0.000	0.000	0.000	0.025	0.000	0.000	0.001	3.16
Crane	250	29	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-1	100	48	1	4	33	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.110	0.025	0.003	0.003	1.566	0.003	0.002	0.0135	241	0.002	0.000	0.000	0.000	0.026	0.000	0.000	0.000	3.97
Compressor-2	100	48	1	4	22	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.110	0.025	0.003	0.003	1.566	0.003	0.002	0.0135	241	0.001	0.000	0.000	0.000	0.017	0.000	0.000	0.000	2.65
Dozer	200	43	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Excavator	160	38	1	4	33	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.139	0.032	0.004	0.004	1.984	0.003	0.002	0.0820	253	0.002	0.001	0.000	0.000	0.033	0.000	0.000	0.001	4.18
Generator-1	25	74	1	8	33	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.015	0.001	0.000	0.000	0.022	0.000	0.000	0.000	3.06
Generator-2	25	74	1	0	0	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Grader	150	41	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Lift-1	50	20	1	6	33	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.006	0.000	0.000	0.000	0.008	0.000	0.000	0.000	1.15
Lift-2	50	20	1	6	22	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.004	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.76
Loader-1	250	36	1	6	33	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.310	0.071	0.010	0.010	2.619	0.006	0.005	0.1810	559	0.005	0.001	0.000	0.000	0.043	0.000	0.000	0.003	9.23
Loader-2	250	36	1	4	22	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.206	0.048	0.006	0.006	1.746	0.004	0.003	0.1206	373	0.002	0.001	0.000	0.000	0.019	0.000	0.000	0.001	4.10
Paving Machine	100	42	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Equipment	100	36	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Roller	50	38	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Scraper-1	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Scraper-2	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Water Truck-1	400	38	1	4	33	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.349	0.080	0.011	0.011	2.949	0.007	0.006	0.2064	637	0.006	0.001	0.000	0.000	0.049	0.000	0.000	0.003	10.51
Total						3.005	0.39	0.05	0.047	17.010	0.031	0.025	0.775	2915	0.045	0.006	0.001	0.001	0.247	0.000	0.000	0.011	42.76									

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)									Peak Day Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	1	1	3	50	33	0.0455	0.0079	0.0010	0.0009	0.657	0.0027	0.0048	0.002	270	0.015	0.003	0.000	0.000	0.217	0.001	0.002	0.001	89.3	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	1.473
Light-Duty Truck - LDT2 (offsite)	1	1	9	50	33	0.0533	0.0093	0.0051	0.0049	0.094	0.0027	0.0446	0.000	283	0.053	0.009	0.005	0.005	0.094	0.003	0.044	0.000	281	0.001	0.000	0.000	0.000	0.002	0.000	0.001	0.000	4.630
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	12	0.2961	0.0041	0.0045	0.0043	0.023	0.0092	0.1526	0.000	969	0.003	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.064	
Heavy Duty Trucks - T7TC (offsite)	1	1	6	50	15	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.671	0.008	0.013	0.013	0.033	0.009	0.149	0.000	947	0.005	0.000	0.000	0.000	0.000	0.001	0.000	7.102	
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	3	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.112	0.001	0.002	0.002	0.006	0.001	0.025	0.000	158	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.237	
Heavy Duty Trucks - T7TC (offsite)	1	1	10	50	2	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	1.118	0.013	0.022	0.021	0.055	0.015	0.249	0.001	1578	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1.578	
Total						1.97	0.03	0.04	0.04	0.40	0.029	0.470	0.002	3064	0.007	0.000	0.000	0.000	0.040	0.029	0.470	0.002	3064	0.007	0.000	0.000	0.000	0.005	0.000	0.002	0.000	15.08

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	3	50	33	0.4263	0.1069	0.140978	0.035365313	0.002326	0.000584
Light-Duty Truck - LDT2 (offsite)	1	1	9	50	33	0.4273	0.1073	0.423930	0.106444249	0.006995	0.001756
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	12	0.4642	0.1202	0.005117	0.001325191	0.000031	0.000008
Heavy Duty Trucks - T7TC (offsite)	1	1	6	50	15	0.4920	0.1299	0.325420	0.085942971	0.002441	0.000645
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	3	0.4920	0.1299	0.054237	0.014323829	0.000081	0.000021
Heavy Duty Trucks - T7TC (offsite)	1	1	10	50	2	0.4920	0.1299	0.542367	0.143238285	0.000542	0.000143
						Total	1.492049	0.386640	0.012416	0.003157	

Notes:

Hours per day and durations estimated and approved by client.

Round trips for supplies deliveries, equipment and trash pickups estimated from within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

Round trips for fuel deliveries from Hanford area (approximatley 5-miles).

Round trips for LDA and LDT2 is estimated from within within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

* Asphalt in acres per day

* Architectural Coating in liters per day

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 4: Vertical Construction

On-Site Sources

Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	Emission Factors (g/bhp-hr)									Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Asphalt Fugitive	--	--	1	0.000	0	--	2.600	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Architectural Coating	--	--	1	0.000	0	--	50.0	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Backhoe	125	37	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Crane	250	29	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-1	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-2	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Dozer	200	43	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Excavator	160	38	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Generator-1	25	74	1	8	150	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.067	0.003	0.000	0.000	0.100	0.000	0.000	0.002	13.907
Generator-2	25	74	1	8	150	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.067	0.003	0.000	0.000	0.100	0.000	0.000	0.002	13.907
Grader	150	41	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Lift-1	50	20	1	6	150	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.027	0.001	0.000	0.000	0.037	0.000	0.000	0.002	5.213
Lift-2	50	20	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Loader-1	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Loader-2	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Machine	100	42	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Equipment	100	36	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Paving Roller	50	38	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Scraper-1	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Scraper-2	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Water Truck-1	400	38	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Total						2.157	0.09	0.01	0.006	3.165	0.005	0.003	0.063	440	0.162	0.007	0.000	0.000	0.237	0.000	0.000	0.005	33.03									

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)									Peak Day Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	1	1	5	50	150	0.0455	0.0079	0.0010	0.0009	0.657	0.0027	0.0048	0.002	270	0.025	0.004	0.001	0.001	0.362	0.001	0.003	0.001	149	0.002	0.000	0.000	0.000	0.027	0.000	0.000	0.000	11.161
Light-Duty Truck - LDT2 (offsite)	1	1	10	50	150	0.0533	0.0093	0.0051	0.0049	0.094	0.0027	0.0446	0.000	283	0.059	0.010	0.006	0.005	0.104	0.003	0.049	0.000	312	0.004	0.001	0.000	0.000	0.008	0.000	0.004	0.000	23.382
Med-Heavy Duty - T6 Utility (offsite)	1	1	10	50	150	0.2961	0.0041	0.0045	0.0043	0.023	0.0092	0.1526	0.000	969	0.326	0.005	0.005	0.005	0.025	0.010	0.168	0.000	1068	0.024	0.001	0.000	0.000	0.002	0.001	0.013	0.000	80.091
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	30	0.2961	0.0041	0.0045	0.0043	0.023	0.0092	0.1526	0.000	969	0.003	0.000	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.160	
Heavy Duty Trucks - T7TC (offsite)	1	1	20	50	10	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	2.236	0.025	0.045	0.043	0.110	0.030	0.497	0.001	3157	0.011	0.000	0.000	0.000	0.001	0.000	0.002	0.000	15.8
Heavy Duty Trucks - T7TC (offsite)	1	1	5	35	150	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.391	0.004	0.008	0.008	0.02	0.005	0.087	0.000	552	0.029	0.000	0.001	0.001	0.001	0.000	0.007	0.000	41.430
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	30	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.112	0.001	0.002	0.002	0.006	0.001	0.025	0.000	158	0.002	0.000	0.000	0.000	0.000	0.000	0.000	2.367	
Heavy Duty Trucks - T7TC (offsite)	1	1	3	50	2	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.335	0.004	0.007	0.006	0.017	0.004	0.075	0.000	473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.473	
						Total	3.49	0.05	0.07	0.07	0.64	0.056	0.905	0.003	5879	0.073	0.002	0.002	0.002	0.039	0.002	0.026	0.000	174.85								

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	5	50	150	0.4263	0.1069	0.234964	0.058942188	0.017622	0.004421
Light-Duty Truck - LDT2 (offsite)	1	1	10	50	150	0.4273	0.1073	0.471033	0.118271388	0.035327	0.008870
Med-Heavy Duty - T6 Utility (offsite)	1	1	10	50	150	0.4642	0.1202	0.511741	0.132519115	0.038381	0.009939
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	30	0.4642	0.1202	0.005117	0.001325191	0.000077	0.000020
Heavy Duty Trucks - T7TC (offsite)	1	1	20	50	10	0.4920	0.1299	1.084734	0.286476571	0.005424	0.001432
Heavy Duty Trucks - T7TC (offsite)	1	1	5	35	150	0.4920	0.1299	0.189828	0.0501334	0.014237	0.003760
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	30	0.4920	0.1299	0.054237	0.014323829	0.000814	0.000215
Heavy Duty Trucks - T7TC (offsite)	1	1	3	50	2	0.4920	0.1299	0.162710	0.042971486	0.000163	0.000043
						Total		2.714363	0.704963	0.112044	0.028700

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 5: Flatwork and Paving

On-Site Sources

						Emission Factors (g/bhp-hr)									Emissions (lb/day)										Total Emissions (tons)								
Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	
Asphalt Fugitive	--	--	1	0.526	11	--	2.600	--	--	--	--	--	--	--	--	1.3684	--	--	--	--	--	--	--	--	--	0.008	--	--	--	--	--	--	--
Architectural Coating	--	--	0	0.000	0	--	50.000	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Backhoe	125	37	1	6	33	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.159	0.037	0.005	0.005	2.264	0.003	0.003	0.0930	287	0.003	0.001	0.000	0.000	0.037	0.000	0.000	0.002	4.74	
Crane	250	29	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-1	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-2	100	48	1	0	0	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Dozer	200	43	1	6	11	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.296	0.068	0.009	0.009	2.503	0.006	0.005	0.1740	539	0.002	0.000	0.000	0.000	0.014	0.000	0.000	0.001	2.97	
Excavator	160	38	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Generator-1	25	74	1	8	33	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.015	0.001	0.000	0.000	0.022	0.000	0.000	0.000	3.06	
Generator-2	25	74	1	0	0	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Grader	150	41	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Lift-1	50	20	1	6	33	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.006	0.000	0.000	0.000	0.008	0.000	0.000	0.000	1.15	
Lift-2	50	20	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Loader-1	250	36	1	8	33	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.413	0.095	0.013	0.013	3.492	0.008	0.007	0.2413	746	0.007	0.002	0.000	0.000	0.058	0.000	0.000	0.004	12.30	
Loader-2	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Machine	100	42	2	8	11	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.385	0.089	0.012	0.012	5.482	0.007	0.006	0.2252	697	0.002	0.000	0.000	0.000	0.030	0.000	0.000	0.001	3.83	
Paving Equipment	100	36	1	8	11	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.165	0.038	0.005	0.005	2.349	0.003	0.003	0.0971	300	0.001	0.000	0.000	0.000	0.013	0.000	0.000	0.001	1.65	
Paving Roller	50	38	2	8	11	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	1.836	0.080	0.005	0.005	2.480	0.003	0.003	0.0536	381	0.010	0.000	0.000	0.000	0.014	0.000	0.000	0.000	2.09	
Scraper-1	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Scraper-2	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Water Truck-1	400	38	1	8	33	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.697	0.161	0.021	0.021	5.898	0.013	0.011	0.4128	1274	0.012	0.003	0.000	0.000	0.097	0.000	0.000	0.007	21.02	
Total						5.211	1.99	0.07	0.074	26.294	0.047	0.039	1.340	4479	0.056	0.015	0.001	0.001	0.293	0.001	0.000	0.016	52.81										

On-Road Sources

						Emission Factors (g/mile)								Peak Day Emissions (lb/day)								Total Emissions (tons)											
Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	
Passenger Vehicle - LDA (offsite)	1	1	1	50	33	0.0455	0.0079	0.0010	0.0009	0.657	0.0027	0.0048	0.002	270	0.005	0.001	0.000	0.000	0.072	0.000	0.001	0.000	29.8	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.491
Light-Duty Truck - LDT2 (offsite)	1	1	3	50	33	0.0533	0.0093	0.0051	0.0049	0.094	0.0027	0.0446	0.000	283	0.018	0.003	0.002	0.002	0.031	0.001	0.015	0.000	93.5	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	1.543
Passenger Vehicle - LDA (offsite)	1	1	2	50	11	0.0455	0.0079	0.0010	0.0009	0.657	0.0027	0.0048	0.002	270	0.010	0.002	0.000	0.000	0.145	0.001	0.001	0.000	59.5	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.327
Light-Duty Truck - LDT2 (offsite)	1	1	5	50	11	0.0533	0.0093	0.0051	0.0049	0.094	0.0027	0.0446	0.000	283	0.029	0.005	0.003	0.003	0.052	0.001	0.025	0.000	156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.857
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	7	0.2961	0.0041	0.0045	0.0043	0.023	0.0092	0.1526	0.000	969	0.003	0.000	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037
Heavy Duty Trucks - T7TC (offsite)	1	1	6	50	5	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.671	0.008	0.013	0.013	0.033	0.009	0.149	0.000	947	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.367
Heavy Duty Trucks - T7TC (offsite)	1	1	19	80	33	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	3.398	0.038	0.068	0.065	0.17	0.045	0.756	0.002	4798	0.056	0.001	0.001	0.001	0.003	0.001	0.012	0.000	79.166	
Heavy Duty Trucks - T7TC (offsite)	1	1	6	35	33	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.469	0.005	0.009	0.009	0.02	0.006	0.104	0.000	663	0.008	0.000	0.000	0.000	0.000	0.000	0.002	0.000	10.937	
Heavy Duty Trucks - T7TC (offsite)	1	1	6	80	33	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	1.073	0.012	0.022	0.021	0.05	0.014	0.239	0.001	1515	0.018	0.000	0.000	0.000	0.001	0.000	0.004	0.000	25.000	
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	3	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.112	0.001	0.002	0.002	0.006	0.001	0.025	0.000	158	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.237	
Heavy Duty Trucks - T7TC (offsite)	1	1	9	50	2	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	1.006	0.011	0.020	0.019	0.050	0.013	0.224	0.001	1420	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.420
Total						6.79	0.09	0.14	0.13	0.63	0.093	1.539	0.005	9851	0.085	0.001	0.002	0.002	0.007	0.001	0.019	0.000	122.38										

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.}

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 6: Interior Finishing

On-Site Sources

Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	Emission Factors (g/bhp-hr)								Emissions (lb/day)								Total Emissions (tons)										
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Asphalt Fugitive	--	--	1	0.000	0	--	2.600	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--
Architectural Coating	--	--	1	208.9	44	--	50.0	--	--	--	--	--	--	--	--	0.2303	--	--	--	--	--	--	--	--	0.005	--	--	--	--	--	--	--
Backhoe	125	37	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Crane	250	29	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Compressor-1	100	48	1	8	44	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.220	0.051	0.007	0.007	3.132	0.005	0.004	0.0271	481	0.005	0.001	0.000	0.000	0.069	0.000	0.000	0.001	10.58
Compressor-2	100	48	1	8	22	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.220	0.051	0.007	0.007	3.132	0.005	0.004	0.0271	481	0.002	0.001	0.000	0.000	0.034	0.000	0.000	0.000	5.29
Dozer	200	43	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Excavator	160	38	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Generator-1	25	74	1	8	44	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.020	0.001	0.000	0.000	0.029	0.000	0.000	0.000	4.08
Generator-2	25	74	1	4	22	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.449	0.020	0.001	0.001	0.669	0.001	0.001	0.0101	92.7	0.005	0.000	0.000	0.000	0.007	0.000	0.000	0.000	1.02
Grader	150	41	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Lift-1	50	20	1	6	44	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.008	0.000	0.000	0.000	0.011	0.000	0.000	0.000	1.53
Lift-2	50	20	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Loader-1	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Loader-2	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Machine	100	42	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Equipment	100	36	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Paving Roller	50	38	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Scraper-1	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Scraper-2	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Water Truck-1	400	38	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
Total						2.149	0.41	0.02	0.019	8.761	0.014	0.010	0.107	1310	0.040	0.008	0.000	0.000	0.151	0.000	0.000	0.002	22.50									

On-Road Sources

						Emission Factors (g/mile)									Peak Day Emissions (lb/day)									Total Emissions (tons)								
Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	1	1	10	50	44	0.0455	0.0079	0.0010	0.0009	0.657	0.0027	0.0048	0.002	270	0.050	0.009	0.001	0.001	0.724	0.003	0.005	0.002	297.6	0.001	0.000	0.000	0.000	0.016	0.000	0.000	0.000	6.548
Light-Duty Truck - LDT2 (offsite)	1	1	22	50	44	0.0533	0.0093	0.0051	0.0049	0.094	0.0027	0.0446	0.000	283	0.129	0.023	0.012	0.012	0.229	0.006	0.108	0.001	686	0.003	0.000	0.000	0.000	0.005	0.000	0.002	0.000	15.089
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	8	0.2961	0.0041	0.0045	0.0043	0.023	0.0092	0.1526	0.000	969	0.003	0.000	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.043
Heavy Duty Trucks - T7TC (offsite)	1	1	3	50	12	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.335	0.004	0.007	0.006	0.017	0.004	0.075	0.000	473	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.841
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	2	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.112	0.001	0.002	0.002	0.006	0.001	0.025	0.000	158	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.158
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	2	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.447	0.005	0.009	0.009	0.022	0.006	0.099	0.000	631	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.631
						Total	1.08	0.04	0.03	0.03	1.00	0.021	0.314	0.004	2257	0.007	0.001	0.0003	0.0003	0.021	0.000	0.003	0.0001	25.31								

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	10	50	44	0.4263	0.1069	0.469927	0.117884376	0.010338	0.002593
Light-Duty Truck - LDT2 (offsite)	1	1	22	50	44	0.4273	0.1073	1.036272	0.260197053	0.022798	0.005724
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	8	0.4642	0.1202	0.005117	0.001325191	0.000020	0.000005
Heavy Duty Trucks - T7TC (offsite)	1	1	3	50	12	0.4920	0.1299	0.162710	0.042971486	0.000976	0.000258
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	2	0.4920	0.1299	0.054237	0.014323829	0.000054	0.000014
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	2	0.4920	0.1299	0.216947	0.057295314	0.000217	0.000057
						Total		1.945210 0.493997		0.034404 0.008653	

Notes:

Hours per day and durations estimated and approved by client.

Round trips for supplies deliveries, equipment and trash pickups estimated from within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

Round trips for LDA and LDT2 is estimated from within within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

* Asphalt in acres per day

* Architectural Coating in liters per day

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 7: Exterior Improvements

On-Site Sources

Source	BHP	Load Factor	Number	Hours/ Day*	Duration (days)	Emission Factors (g/bhp-hr)									Emissions (lb/day)									Total Emissions (tons)									
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	
Asphalt Fugitive	--	--	1	0.000	0	--	2.600	--	--	--	--	--	--	--	--	0.0000	--	--	--	--	--	--	--	0.000	--	--	--	--	--	--	--	--	
Architectural Coating	--	--	1	417.8	22	--	50.0	--	--	--	--	--	--	--	--	0.4605	--	--	--	--	--	--	--	0.005	--	--	--	--	--	--	--	--	
Backhoe	125	37	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	469	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Crane	250	29	1	0	0	22.000	0.060	0.008	0.008	2.200	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Compressor-1	100	48	1	8	22	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.220	0.051	0.007	0.007	3.132	0.005	0.004	0.0271	481	0.002	0.001	0.000	0.000	0.034	0.000	0.000	0.000	5.29	
Compressor-2	100	48	1	8	22	0.260	0.060	0.008	0.008	3.700	0.006	0.004	0.032	568	0.220	0.051	0.007	0.007	3.132	0.005	0.004	0.0271	481	0.002	0.001	0.000	0.000	0.034	0.000	0.000	0.000	5.29	
Dozer	200	43	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.153	474	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Excavator	160	38	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	472	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Generator-1	25	74	1	8	22	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.897	0.039	0.003	0.003	1.338	0.002	0.001	0.0202	185	0.010	0.000	0.000	0.000	0.015	0.000	0.000	0.000	2.04	
Generator-2	25	74	1	0	0	2.750	0.120	0.008	0.008	4.100	0.007	0.004	0.062	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Grader	150	41	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.155	478	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Lift-1	50	20	1	6	22	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.362	0.016	0.001	0.001	0.489	0.001	0.001	0.0225	69.5	0.004	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.76	
Lift-2	50	20	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.170	525	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Loader-1	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Loader-2	250	36	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Paving Machine	100	42	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.152	470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Paving Equipment	100	36	1	0	0	0.260	0.060	0.008	0.008	3.700	0.005	0.004	0.153	473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Paving Roller	50	38	1	0	0	2.740	0.120	0.008	0.008	3.700	0.005	0.004	0.080	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Scraper-1	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Scraper-2	475	48	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.152	471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Water Truck-1	400	38	1	0	0	0.260	0.060	0.008	0.008	2.200	0.005	0.004	0.154	475	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00			
Total						1.700	0.62	0.02	0.017	8.092	0.013	0.009	0.097	1217	0.019	0.007	0.000	0.000	0.089	0.000	0.000	0.001	13.39										

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)									Peak Day Emissions (lb/day)									Total Emissions (tons)								
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	1	1	8	50	22	0.0455	0.0079	0.0010	0.0009	0.657	0.0027	0.0048	0.002	270	0.040	0.007	0.001	0.001	0.579	0.002	0.004	0.002	238.1	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	2.619
Light-Duty Truck - LDT2 (offsite)	1	1	17	50	22	0.0533	0.0093	0.0051	0.0049	0.094	0.0027	0.0446	0.000	283	0.100	0.017	0.010	0.009	0.177	0.005	0.083	0.001	530	0.001	0.000	0.000	0.000	0.002	0.000	0.001	0.000	5.830
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	4	0.2961	0.0041	0.0045	0.0043	0.023	0.0092	0.1526	0.000	969	0.003	0.000	0.000	0.000	0.000	0.002	0.000	10.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	
Heavy Duty Trucks - T7TC (offsite)	1	1	3	50	6	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.335	0.004	0.007	0.006	0.017	0.004	0.075	0.000	473	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.420
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	1	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.112	0.001	0.002	0.002	0.006	0.001	0.025	0.000	158	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.079
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	2	1.0140	0.0114	0.0203	0.0195	0.050	0.0136	0.2256	0.001	1432	0.447	0.005	0.009	0.009	0.022	0.006	0.099	0.000	631	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.631
Total															1.04	0.03	0.03	0.03	0.80	0.019	0.288	0.003	2041	0.003	0.0003	0.0001	0.0001	0.008	0.0001	0.001	0.00003	10.60

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	8	50	22	0.4263	0.1069	0.375942	0.094307501	0.004135	0.001037
Light-Duty Truck - LDT2 (offsite)	1	1	17	50	22	0.4273	0.1073	0.800756	0.201061359	0.008808	0.002212
Med-Heavy Duty - T6 Utility (offsite)	1	1	1	5	4	0.4642	0.1202	0.005117	0.001325191	0.000010	0.000003
Heavy Duty Trucks - T7TC (offsite)	1	1	3	50	6	0.4920	0.1299	0.162710	0.042971486	0.000488	0.000129
Heavy Duty Trucks - T7TC (offsite)	1	1	1	50	1	0.4920	0.1299	0.054237	0.014323829	0.000027	0.000007
Heavy Duty Trucks - T7TC (offsite)	1	1	4	50	2	0.4920	0.1299	0.216947	0.057295314	0.000217	0.000057
Total						1.615708	0.411285	0.013686	0.003445		

Notes:

Hours per day and durations estimated and approved by client.

Round trips for supplies deliveries, equipment and trash pickups estimated from within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

Round trips for LDA and LDT2 is estimated from within within Fresno, Kern, Kings, Madera or Tulare counties (approximatley 50-miles).

* Asphalt in acres per day

* Architectural Coating in liters per day

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 8: Construction - Fugitive Dust Emissions - Phase 1

Construction

Activity	Source	Source Units	Number of Days	Emission Factor	Emission Factor, Units	Peak Day Emissions (lbs/day)		Total Emissions (tons)	
						PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}
Grading									
Site Grading	4.6	acres/day	33	1.1	lbs PM10/day/acre	5.0667	0.4606	0.0836	0.0127
Truck Loading & Dumping	0	tons/day	0	1.72E-04	lbs/ton	0.0000	0.0000	0.0000	0.0000
Vehicle Miles Off-Road	10.0	vehicle-miles/day	33	2.59	lbs/vehicle-mile	25.9006	2.5901	0.4274	0.0647
Max/Total						30.967	3.051	0.511	0.0774
Utilities									
Site Grading	0.01	acres/day	33	1.1	lbs PM10/day/acre	0.0110	0.0010	0.0002	0.0000
Truck Loading & Dumping	0	tons/day	0	1.72E-04	lbs/ton	0.0000	0.0000	0.0000	0.0000
Vehicle Miles Off-Road	6.0	vehicle-miles/day	33	2.59	lbs/vehicle-mile	15.5404	1.5540	0.2564	0.0388
Max/Total						15.551	1.555	0.257	0.0389
Vertical Construction									
Site Grading	0.00	acres/day	264	1.1	lbs PM10/day/acre	0.0000	0.0000	0.0000	0.0000
Truck Loading & Dumping	0	tons/day	0	1.72E-04	lbs/ton	0.0000	0.0000	0.0000	0.0000
Vehicle Miles Off-Road	5.0	vehicle-miles/day	264	2.59	lbs/vehicle-mile	12.9503	1.2950	1.7094	0.2589
Max/Total						12.950	1.295	1.709	0.2589
Flatwork and Paving									
Site Grading	0.50	acres/day	33	1.1	lbs PM10/day/acre	0.5500	0.0500	0.0091	0.0014
Truck Loading & Dumping (Grading Phase)	247	tons/day	33	1.72E-04	lbs/ton	0.0425	0.00644	0.000701	0.000106
Vehicle Miles Off-Road	2.0	vehicle-miles/day	33	2.59	lbs/vehicle-mile	5.1801	0.5180	0.0855	0.0129
Max/Total						5.773	0.574	0.095	0.0144
Interior Finishing									
Site Grading	0.00	acres/day	0	1.1	lbs PM10/day/acre	0.0000	0.0000	0.0000	0.0000
Truck Loading & Dumping (Grading Phase)	0	tons/day	0	1.72E-04	lbs/ton	0.0000	0.0000	0.0000	0.0000
Vehicle Miles Off-Road	0.00	vehicle-miles/day	0	2.59	lbs/vehicle-mile	0.0000	0.0000	0.0000	0.0000
Max/Total						0.000	0.000	0.000	0.0000
Exterior Improvements									
Site Grading	0.0	acres/day	0	1.1	lbs PM10/day/acre	0.0000	0.0000	0.0000	0.0000
Truck Loading & Dumping (Grading Phase)	0	tons/day	0	1.72E-04	lbs/ton	0.0000	0.0000	0.0000	0.0000
Vehicle Miles Off-Road	0.00	vehicle-miles/day	0	2.59	lbs/vehicle-mile	0.0000	0.0000	0.0000	0.0000
Max/Total						0.000	0.000	0.0000	0.0000

Fugitive Dust Emissions: Inputs for the Table

Emission factors based on following inputs

Mean number of rain days per year	0	worst case
Silt content of soil, fill storage pile, %	1.5	SCAQMD default value
Roadway inputs (paved and unpaved, as per URBEMIS)		
Roads mean vehicle weight, tons	20.61	based on project description, HHDT + LDT and vehicles weight (average of full and empty)
unpaved dirt road silt content, %	8.4	AP-42 construction sites
Truck Loading inputs		
k, particle size multiplier, default=0.35 fpr pm10	0.35	
U, mean wind speed, mph range 1.3-15	8.15	
M, moisture content, default=12%	12	
PM2.5/PM10 ratio truck loading	0.15	
Site grading emissions from CalEEMod for grading	0.091	ratio of PM2.5/PM10 CalEEMod
Demolition materials, tons/yds3	1.000	estimated for concrete debris

<i>Fill materials, tons/yds3</i>	<i>1.000</i>	<i>estimated for soils</i>
<i>Mitigation: demolition area watering (fraction reduction)</i>	<i>0.00</i>	<i>0.61 for watering every 3 hours (SCAQMD)</i>
<i>Mitigation: grading/dist area watering (fraction reduction)</i>	<i>0.00</i>	<i>0.61 for watering every 3 hours (SCAQMD)</i>
<i>Mitigation: dumping soil moisture (fraction reduction)</i>	<i>0.00</i>	<i>0.69 for minimum 12% soil moisture (SCAQMD)</i>
<i>Mitigation: storage piles (fraction reduction)</i>	<i>0.00</i>	<i>0.90 for watering by hand and covering (SCAQMD)</i>
<i>Mitigation: roads (fraction reduction)</i>	<i>0.00</i>	<i>0.55 for watering 3X per day (SCAQMD), 0.80 for soil binders applied monthly (AP-42)</i>

Notes:

PM2.5/PM10 ratio as per AP-42 k factor for PM10 and PM2.5

Demolition dust calculations as per EPA AP-42 11.19 and 13.2.4

Truck loading dumping cut/fill based on CalEEMod

Storage pile emissions based on SCAQMD Handbook (URBEMIS does not address emissions from storage piles)

Paved and unpaved road dust emissions based on AP-42 2006 (unpaved) Chapt 13. EPA AP-42 2006 is the same as URBEMS and CalEEMod

One month assumes 22 days of activity, as per URBEMIS

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 9: Emission Factors and Assumptions

Onsite Construction				Emission Factors (g/bhp-hr)									Emission Factors (lb/bhp-hr)								
	Tier	Operational Horsepower	Load Factor	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Asphalt Fugitive	EF = lb/acre	--	--	--	2.60	--	--	--	--	--	--	--	--	2.6000	--	--	--	--	--	--	--
Architectural Coating	EF = g/L	--	--	--	50	--	--	--	--	--	--	--	--	0.1102	--	--	--	--	--	--	--
Backhoe	4	125	37	0.260	0.060	0.008	0.008	3.700	0.005	0.0042	0.152	469	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00034	1.0349
Crane	4	250	29	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.153	473	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0427
Compressor-1	4	100	48	0.260	0.060	0.008	0.008	3.700	0.006	0.0042	0.032	568	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00007	1.2529
Compressor-2	4	100	48	0.260	0.060	0.008	0.008	3.700	0.006	0.0042	0.032	568	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00007	1.2529
Dozer	4	200	43	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.153	474	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0450
Excavator	4	160	38	0.260	0.060	0.008	0.008	3.700	0.005	0.0042	0.153	472	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00034	1.0415
Generator-1	4	25	74	2.750	0.120	0.008	0.008	4.100	0.007	0.0042	0.062	568	0.0061	0.0003	0.0000	0.0000	0.0090	0.00002	0.00001	0.00014	1.2529
Generator-2	4	25	74	2.750	0.120	0.008	0.008	4.100	0.007	0.0042	0.062	568	0.0061	0.0003	0.0000	0.0000	0.0090	0.00002	0.00001	0.00014	1.2529
Grader	4	150	41	0.260	0.060	0.008	0.008	3.700	0.005	0.0042	0.155	478	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00034	1.0549
Lift-1	4	50	20	2.740	0.120	0.008	0.008	3.700	0.005	0.0042	0.170	525	0.0060	0.0003	0.0000	0.0000	0.0082	0.00001	0.00001	0.00037	1.1585
Lift-2	4	50	20	2.740	0.120	0.008	0.008	3.700	0.005	0.0042	0.170	525	0.0060	0.0003	0.0000	0.0000	0.0082	0.00001	0.00001	0.00037	1.1585
Loader-1	4	250	36	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.152	470	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0357
Loader-2	4	250	36	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.152	470	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0357
Paving Machine	4	100	42	0.260	0.060	0.008	0.008	3.700	0.005	0.0042	0.152	470	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00034	1.0367
Paving Equipment	4	100	36	0.260	0.060	0.008	0.008	3.700	0.005	0.0042	0.153	473	0.0006	0.0001	0.0000	0.0000	0.0082	0.00001	0.00001	0.00034	1.0432
Paving Roller	4	50	38	2.740	0.120	0.008	0.008	3.700	0.005	0.0042	0.080	568	0.0060	0.0003	0.0000	0.0000	0.0082	0.00001	0.00001	0.00018	1.2529
Scraper-1	4	475	48	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.152	471	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0393
Scraper-2	4	475	48	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.152	471	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0393
Water Truck-1	4	400	38	0.260	0.060	0.008	0.008	2.200	0.005	0.0042	0.154	475	0.0006	0.0001	0.0000	0.0000	0.0049	0.00001	0.00001	0.00034	1.0477

Offsite Trasporation			Emission Factors (g/mile)									Emission Factors (lb/mile)								
Source	Tier	Region	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	--	San Luis Obispo County	0.0455	0.0079	0.0010	0.0009	0.6569	0.0027	0.0048	0.0020	270.0	0.0001	0.0000	0.0000	0.0000	0.0014	0.00001	0.00001	0.00000	0.5953
Light-Duty Truck - LDT2 (offsite)	--	San Luis Obispo County	0.0533	0.0093	0.0051	0.0049	0.0944	0.0027	0.0446	0.0004	282.8	0.0001	0.0000	0.0000	0.0000	0.0002	0.00001	0.00010	0.00000	0.6235
Med-Heavy Duty - T6 Utility (offsite)	--	San Luis Obispo County	0.2961	0.0041	0.0045	0.0043	0.0228	0.0092	0.1526	0.0002	968.8	0.0007	0.0000	0.0000	0.0000	0.0001	0.00002	0.00034	0.00000	2.1358
Heavy Duty Trucks - T7TC (offsite)	--	San Luis Obispo County	1.0140	0.0114	0.0203	0.0195	0.0499	0.0136	0.2256	0.0005	1432	0.0022	0.0000	0.0000	0.0000	0.0001	0.00003	0.00050	0.00000	3.1566

Offsite Dust - Mobile Sources			Emission Factors (g/mile)		Emission Factors (lb/mile)	
Source	Tier	Region	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	--	San Luis Obispo County	0.4263	0.1069	0.000940	0.000236
Light-Duty Truck - LDT2 (offsite)	--	San Luis Obispo County	0.4273	0.1073	0.000942	0.000237
Med-Heavy Duty - T6 Utility (offsite)	--	San Luis Obispo County	0.4642	0.1202	0.001023	0.000265
Heavy Duty Trucks - T7TC (offsite)	--	San Luis Obispo County	0.4920	0.1299	0.001085	0.000286

Notes:

- Equipment list and engine sizes estimated.
- Equipment criteria pollutant emission factors and load factors were obtained from CalEEMod, Appendix D 2020.
- N₂O emission factors for equipment were obtained from *CFR Part 98 Table C-2 and CalEEMod Appendix D 2020*.
- CO₂ and CH₄ emission factors for construction equipment were obtained from *CalEEMod Appendix D 2020*.
- Vehicle emissions factors obtained from EMFAC-2021

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 1: OPERATIONAL EMISSIONS SUMMARY

Model Run: March 20, 2024

Source	Peak Day Emissions (lbs/day)													Annual Emissions (tons/yr)													
	NO _x	ROG	PM ₁₀ E*	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E*	PM _{2.5} D	PM _{2.5} T	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀ E*	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E*	PM _{2.5} D	PM _{2.5} T	CO	SO ₂	N ₂ O	CH ₄	CO ₂	MTCO ₂ e
Operational Phase Without Residential Tenant Vehicle Trip Emissions	1.71	3.91	0.013	0.079	0.091	0.016	0.021	0.036	198	0.010	0.264	73.4	4,017	0.044	0.102	0.00004	0.002	0.002	0.0004	0.0005	0.001	5.14	0.0003	0.013	0.229	609	561
Operational Phase Residential Tenant Vehicle Trip Emissions	3.71	0.66	0.13	48.71	48.84	0.12	0.25	0.37	68.2	0.30	0.659	0.169	30,163	0.677	0.120	0.005	8.89	8.89	0.022	2.23	2.25	12.4	0.054	0.120	0.031	5,505	5,024
Total Operational Phase Emissions	5.42	4.56	0.140	48.8	48.9	0.134	0.272	0.406	266	0.308	0.92	73.5	34,179	0.72	0.221	0.005	8.89	8.90	0.022	2.23	2.25	17.6	0.055	0.133	0.260	6,113	5,586
SJVAPCD Operational Significance Thresholds	--	--	--	--	--	--	--	--	--	--	--	--	--	10	10	--	--	15	--	--	15	100	27	--	--	--	--
Threshold exceeded?	--	--	--	--	--	--	--	--	--	--	--	--	--	No	No	--	--	No	--	--	No	No	No	--	--	--	--
Total Yearly DPM Emissions From Onsite Diesel Engine Exhaust, tons**																0.00048	--	--	--	--	--	--	--	--			
GHG - MTCO ₂ E conversions																								273	28	1	--
Total Operational Phase MTCO ₂ E/yr																								5,586			
Amortized Construction Phase Emissions*																								72.1			
Total Operational Phase + Amortized Construction Phase Emissions MTCO ₂ E/yr																								5,658			

Notes:

- Global Warming Potentials (273 for N₂O, 27.9 for CH₄, and 1 for CO₂, Table 7.SM.6, Intergovernmental Panel on Climate Change (IPCC). 2021. Sixth Assessment Report

MTCO₂E - Metric Tons of Carbon Dioxide Equivalent

SJVAPCD - San Joaquin Valley Air Pollution Control District

NO_x - Oxides of Nitrogen

ROG - Reactive Organic Gases

PM_{2.5} - Particulate Matter 2.5 Microns or Less. An **E** suffix - indicates exhaust, **D** suffix indicates dust and **T** suffix indicates total emissions.

PM₁₀ - Particulate Matter 10 Microns or Less. An **E** suffix - indicates exhaust, **D** suffix indicates dust and **T** suffix indicates total emissions.

DPM - Diesel Particulate Matter

CO - Carbon Monoxide

SO₂ - Sulfur Dioxide

N₂O - Nitrous Oxide

CH₄ - Methane

CO₂ - Carbon Dioxide

* - Includes all four phases of construction.

Assumptions:

Operations assumed 7 days per week.

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 2: Operations

Landscaping Equipment Sources

Emission Factors (g/bhp-hr)														Emissions (lb/day)										Total Emissions (tons)									
Source	BHP	Load Factor	Number	Hours/ Day	Duration (days)	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	
Riding Lawn Mower	25	38	3	6	52	2.265	5.266	0.008	0.010	305.040	0.011	0.005	0.026	623.788	0.854	1.985	0.003	0.004	115.0	0.004	0.002	0.010	235.2	0.022	0.052	0.000	0.000	2.990	0.00011	0.0000	0.0003	6.1142	
Trimmer	5	91	2	4	52	1.850	6.648	0.076	0.101	304.458	0.012	0.007	0.034	808.574	0.148	0.533	0.006	0.008	24.4	0.001	0.001	0.003	64.9	0.004	0.014	0.000	0.000	0.635	0.00003	0.0000	0.0001	1.6870	
Leaf Blower	5	94	2	6	52	2.693	6.132	0.008	0.010	257.695	0.010	0.006	0.028	658.309	0.335	0.762	0.001	0.001	32.0	0.001	0.001	0.003	81.9	0.009	0.020	0.000	0.000	0.833	0.00003	0.0000	0.0001	2.1282	
Other Landscape Equipment	5	58	4	4	52	2.691	6.126	0.008	0.010	257.697	0.010	0.006	0.028	658.309	0.275	0.627	0.001	0.001	26.4	0.001	0.001	0.003	67.3	0.007	0.016	0.000	0.000	0.685	0.00003	0.0000	0.0001	1.7509	
Total														1.612	3.908	0.011	0.014	197.8	0.007	0.004	0.019	449.2	0.042	0.102	0.000	0.000	5.144	0.0002	0.000	0.000	11.680		

On-Road Sources

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)									Peak Day Emissions (lb/day)								Total Emissions (tons)									
						NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	1	1	4884	9.98	365	0.0324	0.0056	0.0009	0.0009	0.6303	0.0026	0.0040	0.0016	267.0	3.480	0.606	0.102	0.093	67.731	0.284	0.427	0.1671	28686.6	0.635	0.111	0.000	0.017	12.361	0.052	0.078	0.031	5235
Light-Duty Truck - LDT2 (offsite)	1	1	257	9.98	365	0.0409	0.0088	0.0046	0.0044	0.0842	0.0025	0.0411	0.0004	260.9	0.231	0.050	0.026	0.025	0.476	0.014	0.233	0.0023	1475.8	0.042	0.009	0.005	0.005	0.087	0.003	0.042	0.000	269
Passenger Vehicle - EV LDA (offsite)	1	1	49	9.98	365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00001	0.0830	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	
Light-Duty Truck - EV LDT2 (offsite)	1	1	3	9.98	365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00001	0.0830	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	
Med-Heavy Duty - T6 Utility (offsite)	1	1	2	25	52	0.2187	0.0036	0.0041	0.0039	0.0215	0.0092	0.1526	0.0002	968.5	0.024	0.000	0.000	0.000	0.002	0.001	0.017	0.0000	106.8	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.78
Heavy Duty Trucks - T7TC (offsite)	2	2	1	25	52	0.6279	0.0072	0.0110	0.0105	0.0373	0.0140	0.2330	0.0003	1478.9	0.069	0.001	0.001	0.001	0.004	0.002	0.026	0.0000	163.0	0.002	0.000	0.000	0.000	0.000	0.000	0.001	0.000	4.24
Total						3.80	0.657	0.129	0.120	68.214	0.300	0.702	0.1695	30,432.3	0.680	0.120	0.005	0.022	12.448	0.054	0.121	0.03093	5,511.7									

On-Road Sources - Within Development Only

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	1	1	4884	9.98	365	0.4263	0.1069	45.810538	11.49185205	8.360423	2.097263
Light-Duty Truck - LDT2 (offsite)	1	1	257	9.98	365	0.4272	0.1073	2.416087	0.606586418	0.440936	0.110702
Passenger Vehicle - EV LDA (offsite)	1	1	49	9.98	365	0.4248	0.1064	0.461117	0.115513896	0.084154	0.021081
Light-Duty Truck - EV LDT2 (offsite)	1	1	3	9.98	365	0.4248	0.1064	0.024269	0.006079609	0.004429	0.001110
Med-Heavy Duty - T6 Utility (offsite)	1	1	2	25	52	0.4671	0.1212	0.051484	0.013360456	0.001339	0.000347
Heavy Duty Trucks - T7TC (offsite)	1	1	1	25	52	0.4923	0.1300	0.027134	0.007167267	0.000705	0.000186
Total						48.790629	12.240560	8.891986	2.230690		

Land Use Sources

Electricity Use (Land Use)			Emission Factor (lb/kWh)			Emissions (lb/kWh/day)			Emissions (tons/kWh/yr)		
Source	Units	Electricity Use kW/units/yr	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂
Housing Units	658	8,774	0.000004	0.00003	0.2040	0.06327	0.52199	3227	0.01155	0.09526	588.9
Total						0.06327	0.5220	3227	0.01155	0.09526	588.9

Land Use Sources

Electricity Use (Water Use)		Emission Factor (lb/kWh)			Emissions (lb/kWh/day)			Emissions (tons/kWh/yr)		
Source	Water Use/Year	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂
Housing Units	33,143,460	0.000004	0.00003	0.2040	0.000001	0.000012	0.07296	0.0000003	0.0000022	0.01332
Housing Unit Landscaping	17,751,451	0.000004	0.00003	0.2040	0.000001	0.000006	0.03908	0.0000001	0.0000012	0.00713
Common Landscaping	693,000	0.000004	0.00003	0.2040	0.000000	0.000000	0.00153	0.0000000	0.0000000	0.00028
Total					0.000002	0.000018	0.113565	0.000000	0.000003	0.020726

Wastewater Treatment		Emission Factor (lb/gal)			Emissions (pound/day)			Emissions (tons/year)		
Source	Wastewater Generated (gallons/yr)	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂	N ₂ O	CH ₄	CO ₂
Housing Units	33,143,460	0.0000017	0.0008020	0.0007800	0.1547	72.8248	70.8271	0.00008	0.03641	0.03541
Total					0.1547	72.8248	70.8271	0.0001	0.0364	0.0354

Solid Waste		Emission Factor (tons/ton)		Emissions (pound/day)		Emissions (tons/year)	
Source	Solid Waste Generated (tons/yr)	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂
Housing Units	11.5	0.00844	0.09846	0.00029	0.0034	0.0969	1.1310
Total		0.0003	0.0034	0.10	1.13		

Notes:

- Square footage and number of units provided by client
- Occupancy rate of 100% used
- VMT and round trips for LDA and LDT2 were obtained from traffic studies.
- Assumes 1% of vehicles will be electric vehicles.

COPPER RIDGE SUBDIVISON DEVELOPMENT
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS
TABLE 3: Operational Emission Factors and Assumptions

Onsite Maintenance				Emission Factors (g/bhp-hr)									Emission Factors (lb/bhp-hr)								
Source	Tier	Operational Horsepower	Load Factor	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Riding Lawn Mower	--	25	38	2.265	5.266	0.008	0.010	305.040	0.011	0.005	0.026	624	0.0050	0.0116	0.0000	0.0000	0.6725	0.00002	0.00001	0.00006	1.3752
Trimmer	--	5	91	1.850	6.648	0.076	0.101	304.458	0.012	0.007	0.034	809	0.0041	0.0147	0.0002	0.0002	0.6712	0.00003	0.00002	0.00007	1.7826
Leaf Blower	--	5	94	2.693	6.132	0.008	0.010	257.695	0.010	0.006	0.028	658	0.0059	0.0135	0.0000	0.0000	0.5681	0.00002	0.00001	0.00006	1.4513
Other Landscape Equipment	--	5	58	2.691	6.126	0.008	0.010	257.697	0.010	0.006	0.028	658	0.0059	0.0135	0.0000	0.0000	0.5681	0.00002	0.00001	0.00006	1.4513
Onsite				Emission Factors, g/kBTU									Emission Factors (lb/kBTU)								
Source	Tier	Operational Horsepower	Load Factor	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Natural Gas Residential	--	--	--	0.041802	0.002446	0.003380	0.003380	0.017788	0.000267	0.000100	0.004696	53.059937	0.000092	0.000005	0.000007	0.000007	0.000039	0.000001	0.000000	0.000010	0.116977
Natural Gas Commercial	--	--	--	0.044470	0.002446	0.003380	0.003380	0.037355	0.000267	0.000100	0.004696	53.059937	0.000092	0.000005	0.000007	0.000007	0.000039	0.000001	0.000000	0.000010	0.116977
Offsite				Emission Factors (g/mile)									Emission Factors (lb/mile)								
Source	Tier	Region		NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂	NO _x	ROG	PM ₁₀	PM _{2.5}	CO	SO ₂	N ₂ O	CH ₄	CO ₂
Passenger Vehicle - LDA (offsite)	--	San Joaquin Valley		0.0324	0.0056	0.0009	0.0009	0.6303	0.0026	0.0040	0.0016	267	0.0001	0.0000	0.0000	0.0000	0.0014	0.00001	0.00001	0.00000	0.5885
Passenger Vehicle - EV LDA (offsite)	--	San Joaquin Valley		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000002	0.00001	0.0830	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0002
Light-Duty Truck - LDT2 (offsite)	--	San Joaquin Valley		0.0409	0.0088	0.0046	0.0044	0.0842	0.0025	0.0411	0.0004	261	0.0001	0.0000	0.0000	0.0000	0.0002	0.00001	0.00009	0.00000	0.5753
Light-Duty Truck - EV LDT2 (offsite)	--	San Joaquin Valley		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000002	0.00001	0.0830	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.00000	0.0002
Med-Heavy Duty - T6 Utility (offsite)	--	San Joaquin Valley		0.2187	0.0036	0.0041	0.0039	0.0215	0.0092	0.1526	0.0002	969	0.0005	0.0000	0.0000	0.0000	0.0000	0.00002	0.00034	0.00000	2.1352
Heavy Duty Trucks - T7TC (offsite)	--	San Joaquin Valley		0.6279	0.0072	0.0110	0.0105	0.0373	0.0140	0.2330	0.0003	1479	0.0014	0.0000	0.0000	0.0000	0.0001	0.00003	0.00051	0.00000	3.2604

Offsite Dust - Mobile Sources			Emission Factors (g/mile)		Emission Factors (lb/mile)	
Source	Tier	Region	PM ₁₀ Dust	PM _{2.5} Dust	PM ₁₀ Dust	PM _{2.5} Dust
Passenger Vehicle - LDA (offsite)	--	San Joaquin Valley	0.4263	0.1069	0.000940	0.000236
Passenger Vehicle - EV LDA (offsite)	--	San Joaquin Valley	0.4248	0.1064	0.000937	0.000235
Light-Duty Truck - LDT2 (offsite)	--	San Joaquin Valley	0.4272	0.1073	0.000942	0.000236
Light-Duty Truck - EV LDT2 (offsite)	--	San Joaquin Valley	0.4248	0.1064	0.000937	0.000235
Med-Heavy Duty - T6 Utility (offsite)	--	San Joaquin Valley	0.4671	0.1212	0.001030	0.000267
Heavy Duty Trucks - T7TC (offsite)	--	San Joaquin Valley	0.4923	0.1300	0.001085	0.000287

Offsite	
Source	Energy Consumption (kWh/mile)
Passenger Vehicle - EV LDA (offsite)	0.40674
Light-Duty Truck - EV LDT2 (offsite)	0.40674

Electricity Emission Factors		Emission Factors (lb/kWhr)		
Source	Electricity Use Region	N ₂ O	CH ₄	CO ₂
Electricity Usage	California	0.000004	0.00003	0.2040

Electricity Use by Land Use	
Source	kWhr/Unit/Year
	Electricity
Housing Units	8,774.39

Water Energy-Intensity	
Source	kWh/Gal
Project Site	0.00394

Solid Waste Disposal Rate		
Source	Region	Rate (Tons/Year)
Housing Units	King County	15

Solid Waste Emissions Factors		
Landfill Type	CH ₄ (tons/ton)	CO ₂ (tons/ton)
No Landfill Gas Collection	0.0084	0.0985

Recycling and Composting	
Recycling and Composting Program	Percentage of Waste Recycled or Composted
	25

Water Use Rates				Water Use		
Source	Units or Square Feet	Indoor Water Use (gal/unit or Square Feet per yr)	Outdoor Water Use (gal/unit or gal/Square Feet per yr)	Total Indoor Water Use (gal)	Total Outdoor Water Use (gal)	Total Water Use (gal)
Housing Units	658	50,370	0.000	33,143,460	0.000	33,143,460
Housing Unit Landscaping	999,000	0.00	17.77	0.00	17,751,451	17,751,451
Common Landscaping	39,000	0.00	17.77	0.00	693,000	693,000
Total				33,143,460	18,444,450	51,587,910

Wastewater Treatment	Emission Factor (lb/gal)		
Source	N ₂ O	CH ₄	CO ₂
Wastewater Treatment	0.0000017	0.000802	0.00078

Climate Zone	3
--------------	---

Notes:

- Equipment list and engine sizes estimated.
- Equipment criteria pollutant emission factors and load factors were obtained from CalEEMod, Appendix D 2020 and CalEEMod, Appendix G, 2022.
- Electricity and Natural Gas Emission Factors were obtained from CalEEMod, Appendix G 2022.
- Electricity Use by Land Use obtained from CalEEMod, Appendix D 2020.
- N₂O emission factors for equipment were obtained from *CFR Part 98 Table C-2 and CalEEMod Appendix D- 20164*.
- CO₂ and CH₄ emission factors for construction equipment were obtained from *CalEEMod Appendix D 2020*.
- CO₂ and CH₄ emission were obtained from *CalEEMod Appendix G 2022*.
- Vehicle emissions factors obtained from EMFAC-2021
- Solid waste and waste water emission factors and waste disposal rates obtained from CalEEMod Appendix G 2022
- Water use rates and wastewater treatment rates obtained from CalEEMod Appendix G 2022
- Waste disposal rates obtained from CalEEMod Appendix G 2022

Daily Traffic and VMT Information

VEHICLE MILES TRAVELED ANALYSIS

COPPER RIDGE MIXED-USE PROJECT

CITY OF HANFORD

KINGS COUNTY, CALIFORNIA

This Vehicle Miles Traveled Analysis has been prepared under the supervision of
Ambarish Mukherjee, P.E.



January 2025

VEHICLE MILES TRAVELED ANALYSIS

COPPER RIDGE MIXED-USE PROJECT CITY OF HANFORD KINGS COUNTY, CALIFORNIA

Prepared for:

MFI Limited
5665 Edna Ranch Circle
San Luis Obispo, California 93292

Prepared by:

LSA Associates, Inc.
1500 Iowa Avenue, Suite 200
Riverside, California 92507
(951) 781-9310

Project No. 20242098



January 2025

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY..... 1

2.1 LIST OF CHAPTER 1.0 FIGURES 1

2.0 VEHICLE MILES TRAVELED ANALYSIS..... 4

2.1 BACKGROUND 4

2.2 METHODOLOGY..... 4

2.2.1 Project VMT Screening Analysis 4

2.2.2 VMT Metrics and Thresholds 5

2.2.3 Project Traffic Analysis Zone Update 5

2.3 VMT ANALYSIS..... 6

2.4 LIST OF CHAPTER 2.0 FIGURES AND TABLES 6

APPENDICES

A: VMT CALCULATIONS

FIGURES AND TABLES

FIGURES

Figure 1-1: Regional and Project Location..... 2

Figure 1-2: Conceptual Site Plan 3

TABLES

Table 2-A: Regional Thresholds and Project VMT 7

1.0 EXECUTIVE SUMMARY

The proposed Copper Ridge Mixed-Use Project will be a mixed-use development including 350 single-family homes, 300 multifamily units, and approximately a total of 37,700 square feet (sf) of commercial uses, including 28,330 sf retail, two fast-food restaurant with drive-through window of areas 2,153 sf and 2,318 sf, and a gas station with approximately 4,899 sf convenience store. Additionally, the project would include parks/open space areas within the community. The proposed project would be located in the northeast corner of Grangeville Boulevard and 9 ¼ Avenue. in the City of Hanford (City), Kings County, CA. Figure 1-1 illustrates the regional and project location of the proposed project.

Access to the project will be provided by four driveways on 9 1/4th Avenue, three driveways on Leland Way, and one driveway on Grangeville Boulevard. Figure 1-2 illustrates the preliminary conceptual site plan of the proposed project.

The City has recently adopted the *City of Hanford VMT Thresholds and Implementation Guidelines* (VMT Guidelines), dated November 2022. Based on the VMT Guidelines, the project being a mixed-use project, individual land use components were analyzed separately for purposes of the VMT analysis. The project VMT analysis has been conducted based on the current project description. The retail/commercial component of the project could be screened out using the 55,000 sf screening criteria for retail projects. However, the residential components of the project don't meet any of the screening criteria identified in the VMT Guidelines. The VMT Guidelines further recommends that for projects/components of a project that could not be screened out using the project screening criteria, a detailed VMT analysis should be conducted using the methodology and significant threshold criteria identified in it.

Based on the VMT analysis, the residential component's VMT is lower than the significant impact thresholds identified in the City's VMT Guidelines. As such, the residential component of the project won't have any significant transportation impact under CEQA. Therefore, given the retail component of the project is screened out, the entire project won't have any significant VMT impact.

1.1 LIST OF CHAPTER 1.0 FIGURES

- Figure 1-1: Regional and Project Location
- Figure 1-2: Conceptual Site Plan

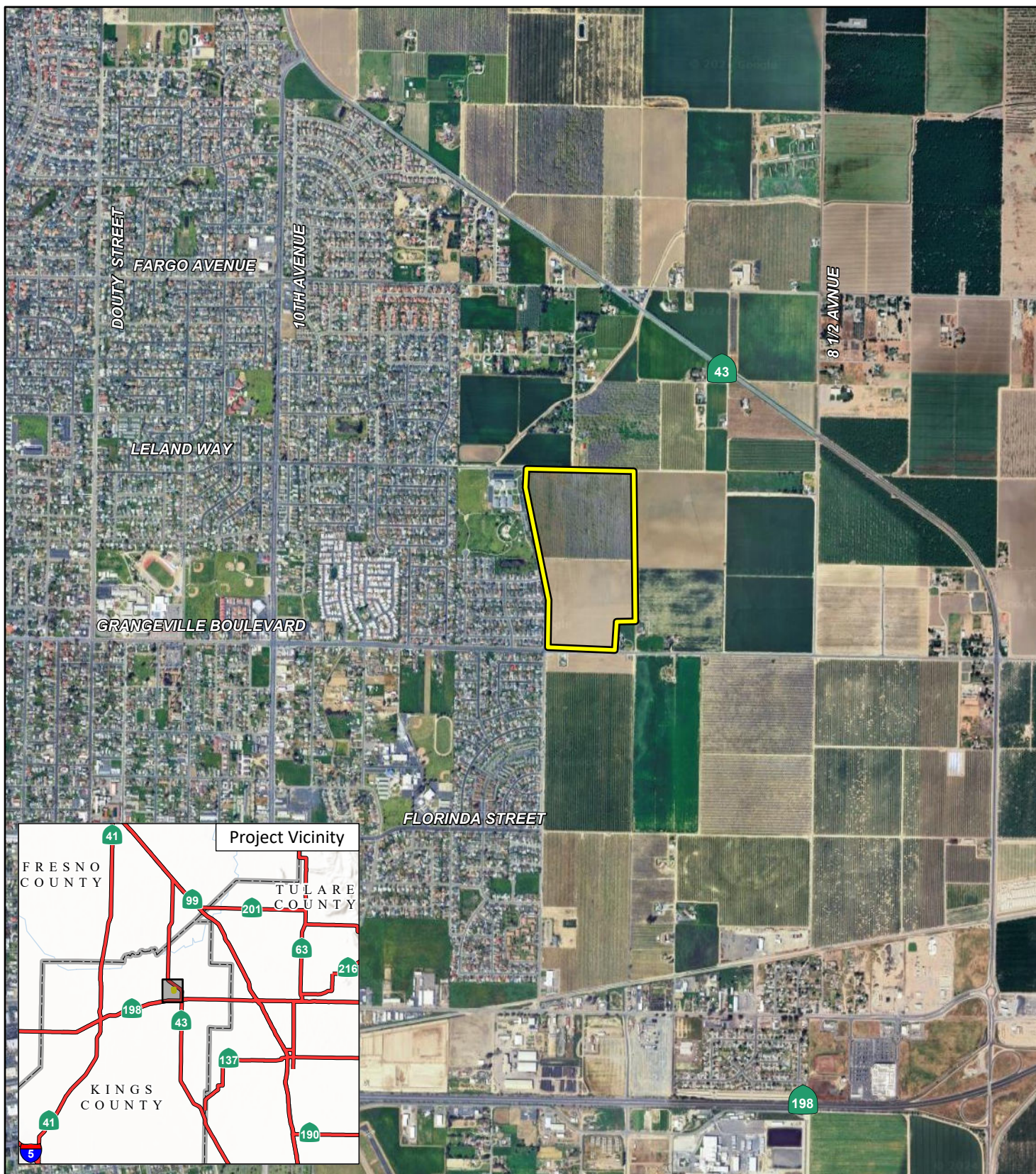


FIGURE 1-1

LSA

LEGEND

 Project Location

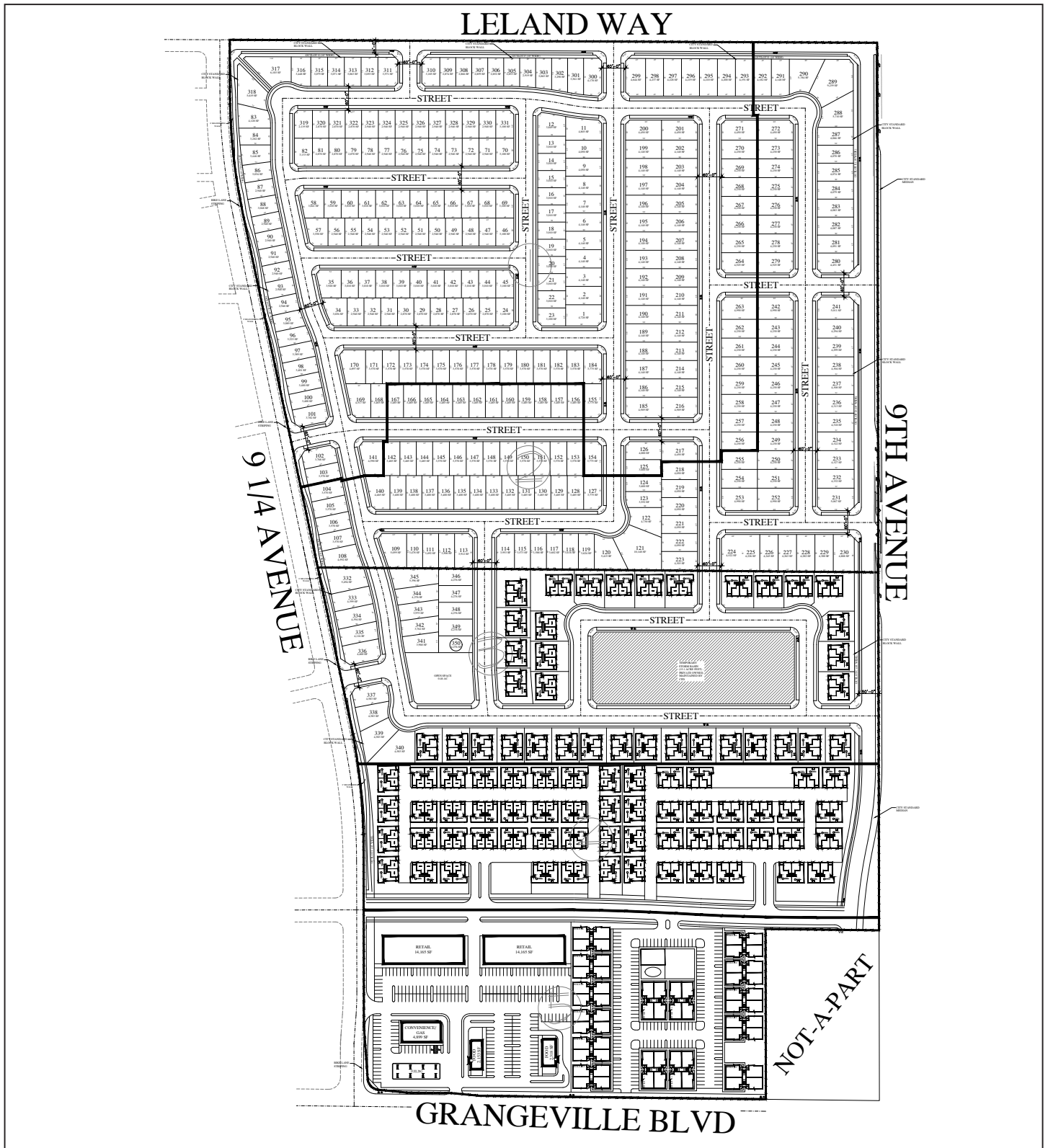


0 1000 2000
FEET

SOURCE: ESRI Streetmap, 2021; Google Earth 2024.

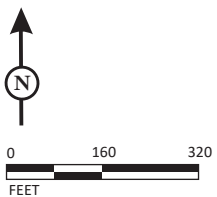
P:\2024\2024098 Copper Ridge\GIS\2024098 Copper Ridge\2024098 Copper Ridge.aprx (1/13/2025)

*Copper Ridge Mixed-Use Project
Vehicle Miles Traveled Analysis
Regional and Project Location*



LSA

FIGURE 1-2



SOURCE: AWEEngineering, January 2025
P:\2024\20242098 Copper Ridge\G\Fig1-2_Conceptual Site_Plan.ai (1/13/2025)

Copper Ridge Mixed-Use Project
Vehicle Miles Traveled Analysis
Conceptual Site Plan

2.0 VEHICLE MILES TRAVELED ANALYSIS

2.1 BACKGROUND

On December 28, 2018, the California Office of Administrative Law cleared the revised California Environmental Quality Act (CEQA) guidelines for use. Among the changes to the guidelines was removal of vehicle delay and level of service from consideration under CEQA. With the adopted guidelines, transportation impacts are to be evaluated based on Vehicle Miles Traveled (VMT) generated by the project.

The City has adopted the *City of Hanford VMT Thresholds and Implementation Guidelines* (VMT Guidelines) in November 2022. Therefore, the project VMT analysis was conducted using the methodology and significant threshold criteria identified in the City's VMT Guidelines. As previously mentioned, the project includes residential and retail/commercial land uses. As per the VMT Guidelines, mixed-use projects should be evaluated separately for each component of the project. Therefore, each project component was analyzed separately.

2.2 METHODOLOGY

2.2.1 Project VMT Screening Analysis

The VMT Guidelines include multiple screening criteria for small land use projects or project components to be screened out of a detailed VMT analysis.

The screening thresholds and their applicability to the project site are as follows:

- **Transit Priority Area Screening:** The project location was compared against the Transit Priority Area from the City of Hanford VMT Screening Tool. Since the project is not located within any Transit Priority Area, this screening criteria does not apply for the project.
- **Local-serving Retail:** Based on the VMT Guidelines, retail projects with a combined area of less than 55,000 sf could be classified as local-serving and could be screened out from a detailed VMT analysis. As summarized in Chapter 1 of this report, the retail component of the project is approximately 37,700 sf, which is less than 55,000 sf. Therefore, the retail component of the project could be screened out using this criterion and a detailed VMT analysis will not be required for this project component.
- **Redevelopment Project:** The project site is currently vacant. Therefore, this criterion is not applicable for the project.
- **Affordable Housing Project:** The residential component of the project proposes market rate single-family and multifamily residential development. Therefore, this criterion is not applicable for the residential component of project.
- **Average Daily Trip Threshold:** Given the size of the project, the project is estimated to generate significant number of trips and could not be screened using the daily trip threshold criteria, which is 500 daily trips for projects requiring a General Plan Amendment (GPA), and 1,000 daily trips for projects not requiring a GPA.
- **Institutional/Government and Public Service Project:** The project land uses could not be classified as Institutional/government and public service land uses, including police stations,

- fire stations, government offices, utilities, public libraries, community centers, and refuse stations. Therefore, this criterion is not applicable for the project.
- **Specific Land Use Screening:** As included in the VMT Guidelines, local parks, daycare centers, student housing projects on or adjacent to a college campus, local serving gas stations, banks, and K–12 public schools could be screened out from detailed VMT analysis. As previously mentioned, the project would include a gas station, which would be part of the commercial component of the project and eligible to be screened out. Also, the park/open space component of the project could be screened out using this criterion and a detailed VMT analysis will not be required.
 - **Low VMT Area Screening:** The project site was evaluated using City of Hanford VMT Screening Tool to determine if the project is located within a low VMT area. Per the VMT Screening Tool, the project comprises of Kings County Association of Governments (KCAG) Travel Demand Model's traffic analysis zone (TAZ) # 657. Based on the evaluation, the project is not in a low VMT area for the residential components. As such, the project's residential components could not be screened out using this criterion.

As noted above, the retail component of the project is screened out using the screening criteria and no further VMT analysis would be required for that component. However, the residential components of the project don't meet any of the screening criteria identified in the guidelines. Therefore, a detailed VMT analysis was conducted to evaluate the VMT impact of these residential components.

2.2.2 VMT Metrics and Thresholds

The VMT Guidelines provide guidance regarding VMT analysis based on land use types. It recommends use of VMT per capita metric to evaluate residential land uses, and VMT per employee for office uses.

The VMT Guidelines also established Kings County as the region and 13 percent as the threshold for comparison of VMT metrics. Therefore, if the project VMT per capita exceeds 87 percent of corresponding Kings County baseline average VMT per capita, the residential component of the project would have a significant VMT impact.

For projects that require a detailed VMT analysis, the guidelines recommend use of KCAG model to conduct the VMT analysis. Therefore, KCAG model was used for the VMT evaluation of the project. Numerical values for the VMT metric threshold have been obtained from Table E: Significance Thresholds for VMT Analysis of the VMT Guidelines.

2.2.3 Project Traffic Analysis Zone Update

To calculate the project VMT, the first step was to update the TAZs in the model that include the project area. The project should be isolated in the travel model to estimate project VMT. The KCAG model includes ability to split or add new TAZ. Therefore, three separate TAZs were added to the model to incorporate the project's single-family, multifamily, and retail land uses. Single-family and multifamily residential uses have been separated into two TAZs because they have different household characteristics such as household size and household income. Typically, single-family residential developments have a higher household size, higher auto ownership, and higher income

compared to multifamily developments. Creating new TAZs for the project help isolate project VMT and determine project specific VMT impact.

KCAG model is a socioeconomic data-based model. Therefore, in addition to the number of households, the model requires other household characteristics such as household income and household size as inputs to the socioeconomic database. The household attributes such as size and income determine the number of trips and their trip lengths. For example, based on ITE *Trip Generation Manual*, (11th edition), a single-family dwelling unit will have 9.4 daily trips, whereas a multifamily unit will have 6.7 daily trips in average. Generally, higher household sizes contribute to higher number of trips and similarly higher income households have more and longer trips. The trip rates in the travel model are disaggregated by different household attributes which are based on regional household travel survey, and census data. These household variables for the project dwelling units were obtained from similar TAZs within the City. Appropriate socioeconomic data for each of the residential land uses were included in the model prior to conducting the VMT analysis model run.

It should be noted that though the retail component of the project was screened out, one separate TAZ was created in the model to include the retail land uses. Inclusion of retail uses will appropriately reflect the internal capture within the project. This is because, presence of retail in proximity of residential uses will help reduce the overall VMT of the project. The retail land use was converted to model socioeconomic data. The land use to employee conversion factors were developed using ITE *Trip Generation Manual*, 11th edition for project retail uses. The ITE trip generation manual includes trip generation rates for different land use categories by different units such as square footage, number of units, and/or number of employees. Employee/square footage rate was determined for these uses by dividing the daily trip rate per 1,000 sf by daily trip rate per employee. This ratio was used to estimate number of employees per square feet for the retail use which in turn was used to estimate total project retail employees. Model run was conducted for this updated model after incorporating the project land uses as described above. The outputs from this updated model run were utilized to estimate project specific VMT metrics. No project specific roadway network modifications were conducted for the model runs.

2.3 VMT ANALYSIS

Table 2-A shows the result of the VMT analysis for the residential component of the project. As shown in Table 2-A, VMT per capita for residential component of the project is lower than the regional threshold. As such, based on the VMT analysis, the residential component will not have any significant VMT impact. As such, since all the components of the project could be either screened out or would have a less than significant VMT impact, the entire project will have a less than significant VMT impact.

Detailed VMT calculation for the project is included in Appendix A.

2.4 LIST OF CHAPTER 2.0 TABLES

- Table 2-A: Regional Threshold and Project VMT

Table 2-A: Regional Thresholds and Project VMT

Metric	Threshold ¹	Project	Difference
VMT per Capita	8.99	8.98	(0.01)

Source: KCAG Model.
The Kings County VMT per capita was obtained from City of Hanford VMT Guidelines, (November 2022).
VMT = vehicle miles traveled

APPENDIX A:

VMT CALCULATIONS

Appendix A - VMT Calculation - Copper Ridge Residential Component

Table 1 - VMT per Capita Calculations

2015	Total Project Residential	Threshold
Households (a)	650	
Population (b)	1,805	
Homebased (HB) VMT ('c)	16,215	
HB VMT per capita (d = c/b)	8.98	8.99

Source: KCAG Model

The Kings County VMT per capita threshold was obtained from City of Hanford VMT Guidelines, (November 2022).

VMT = vehicle miles traveled

From: [Charley Clouse](#)
To: [Robert Vander Weele](#)
Cc: [Andrew Mangano](#); _
Subject: Re: Draft Traffic Report/Copper Ridge Thursday,
Date: January 2, 2025 9:08:50 AM
Attachments: [image.png](#)
[image.png](#)
[image.png](#)

Robert,

Looking at the Revised Copper Ridge Project, the calculation/estimate for daily trips can be derived from the traffic study and the ITE Trip Generation Manual. The traffic study estimates that 12,091 daily trips will be generated by the Project. The table below taken from the Traffic Study provides a summary of the total trip generation estimates by and use. As a reminder, pass by trips do not apply to residential trips as those are primary trips. Therefore, the pass by factors are only applicable to the retail uses.

Table 2							
Copper Ridge Project							
<i>Trip Generation</i>							
Land Use			Trips				
			Daily	AM Peak Hour		PM Peak Hour	
		Units		Enter	Exit	Enter	Exit
Residential	Single family	350	3,195	58	175	203	120
	Multi-family	300	1,998	28	88	95	56
Retail	Mini-mart (16 pumps)*	4,899	3,383	129	129	148	148
	Fast food	2,153	1,005	49	47	37	34
	Fast food	2,318	1,085	53	50	40	37
	Shops	28,330	1,425	34	23	82	82
Totals			12,091	350	512	604	475

Applying expected pass-by factors to the retail uses, would result in approximately 7,939 new trips added as a result of the Copper Ridge Project. Again, this would be total trips at the driveways, not new trips. I would caution use of these numbers for AQ analysis as they represent a different application of the ITE Trip Generation data sets. That said, I believe this represents reasonable estimates of daily trips.

Prioritization Screening Calculations

Prioritization Scores By Year for Residential and Commercial Project										
Receptor Proximity and Proximity Factors	Construction Year 1	Construction Year 2	Construction Year 3	Construction Year 4	Residential Operation Only	Construction Year 1	Construction Year 2	Construction Year 3	Residential and Commercial Operation Only	
0< R<100 1.000	8.32	8.87	9.42	9.98	2.22	8.64	9.10	9.56	6.95	
100≤R<250 0.250	2.08	2.22	2.36	2.49	0.55	2.16	2.28	2.39	1.74	
250≤R<500 0.040	0.333	0.355	0.377	0.399	0.089	0.346	0.364	0.383	0.278	
500≤R<1000 0.011	0.091	0.098	0.104	0.110	0.024	0.095	0.100	0.105	0.076	
1000≤R<1500 0.003	0.025	0.027	0.028	0.030	0.007	0.026	0.027	0.029	0.021	
1500≤R<2000 0.002	0.017	0.018	0.019	0.020	0.004	0.017	0.018	0.019	0.014	
2000<R 0.001	0.008	0.009	0.009	0.010	0.002	0.009	0.009	0.010	0.007	

Appendix C

Biological Evaluation



**BIOLOGICAL EVALUATION
COPPER RIDGE TENTATIVE SUBDIVISION MAP
KINGS COUNTY, CALIFORNIA**

Prepared by

LIVE OAK ASSOCIATES, INC.

Austin Pearson, Vice President
Natalie E. Neff, Staff Ecologist

Prepared for:

N&M Capital
1878 N. Mooney Blvd., Suite J
Tulare, CA 93274

November 27, 2024

2921-01

OAKHURST

P.O. Box 2697 | 39930 Sierra Way #B
Oakhurst, CA 93644

P: (559) 642-4880 | F: (559) 642-4883

SAN JOSE

6840 Via Del Oro, Suite 220
San Jose, CA 95119

(408) 224-8300

SOUTH LAKE TAHOE

P.O. Box 7314
South Lake Tahoe, CA 96158

(408) 281-5885

WWW.LOAINC.COM



EXECUTIVE SUMMARY

Live Oak Associates, Inc. (LOA) investigated the biological resources of an approximately 84-acre parcel in the outskirts of Hanford, California that is proposed for a residential subdivision, and evaluated potential project-related impacts to such resources pursuant to the California Environmental Quality Act (CEQA). This site is located immediately east of city limits northeast of the intersection of Grangeville Boulevard and 9 ¼ Avenue.

The project site was surveyed on November 4, 2024 for its biotic habitats, the plants and animals occurring in those habitats, and significant habitat values that may be protected by state and federal law. At the time, the site consisted of a walnut orchard, disked corn field, and associated agricultural roads and infrastructure. The site supported a variety of weedy grasses and forbs typical of a disturbed agricultural environment. The project site did not contain wildlife movement corridors, sensitive natural communities, designated critical habitat, or state or federally protected waters or wetlands.

Three special status birds known from the vicinity, the tricolored blackbird, Swainson's hawk, and loggerhead shrike, have some potential to nest on site or close enough to the site that they could experience significant project related impacts. Project related impacts are also considered potentially significant for other nesting birds and raptors. Impacts to the tricolored blackbird, Swainson's hawk, loggerhead shrike, and other nesting birds and raptors will be reduced to a less than significant level by either constructing the project outside of the nesting season or, if construction must occur during the nesting season, conducting preconstruction surveys and avoiding active nests.

The project will either have no impact or a less than significant impact, as defined by CEQA, on the following biotic resources: all 10 special plant species known to occur in the region; nine special status animal species that would not likely use the site (i.e., the project site is outside their typical range or habitats of the site are not suitable for them); one special status animal species that may occasionally use habitats of the project site for foraging; jurisdictional waters; wildlife movement corridors; and sensitive natural communities and designated critical habitat. The project appears to be consistent with City of Hanford General Plan policies related to biological resources and is presumably not subject to any Habitat Conservation Plans or Natural Community Conservation Plans.



TABLE OF CONTENTS

EXECUTIVE SUMMARY	ii
1.0 INTRODUCTION	1
1.1 PROJECT LOCATION	1
1.2 PROJECT DESCRIPTION	1
1.3 REPORT OBJECTIVES.....	1
2.0 EXISTING CONDITIONS.....	6
2.1 REGIONAL SETTING	6
2.2 PROJECT SITE	7
2.3 BIOTIC HABITATS.....	7
2.3.1 Orchard	7
2.3.2 Agricultural Field.....	9
2.4 SPECIAL STATUS PLANTS AND ANIMALS	11
2.5 JURISDICTIONAL WATERS.....	16
2.6 DESIGNATED CRITICAL HABITAT	17
2.7 CALIFORNIA SENSITIVE NATURAL COMMUNITIES	17
2.8 WILDLIFE MOVEMENT CORRIDORS.....	17
3.0 RELEVANT GOALS, POLICIES, AND LAWS.....	19
3.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT	19
3.2 OTHER RELEVANT LAWS AND POLICIES	20
3.2.1 General Plan Policies of the City of Hanford	20
3.2.2 Threatened and Endangered Species	21
3.2.3 California Fully Protected Species	21
3.2.4 Migratory Birds	22
3.2.5 Birds of Prey	22
3.2.6 Nesting Birds	23
3.2.7 Habitat Conservation Plans and Natural Community Conservation Plans.....	23
3.2.8 Wetlands and Other Jurisdictional Waters	23
4.0 IMPACTS AND MITIGATIONS	26
4.1 POTENTIALLY SIGNIFICANT PROJECT IMPACTS	26
4.1.1 Potential Project Impacts to Nesting Raptors and Migratory Birds Including Tricolored Blackbird, Loggerhead Shrike, and Swainson’s Hawk	26
4.2 LESS THAN SIGNIFICANT PROJECT IMPACTS	27
4.2.1 Potential Project Impacts to Special Status Plants.....	27
4.2.2 Potential Project Impacts to Special Status Animal Species Absent from or Unlikely to Occur Within the Project Site.....	27



4.2.3 Project Impacts to Special Status Animal Species that Would Use the Site for Non-Sensitive Activities Only	28
4.2.4 Potential Project Impacts to Jurisdictional Waters	28
4.2.5 Potential Project Impacts to Wildlife Movement Corridors	29
4.2.6 Project Impacts to Sensitive Natural Communities and Designated Critical Habitat	29
4.2.7 Consistency with Local Policies and Ordinances	29
4.2.8 Consistency with Habitat Conservation Plans and Natural Community Conservation Plans.....	29
LITERATURE REFERENCED OR CITED.....	30
APPENDIX A: VASCULAR PLANTS OF THE PROJECT SITE.....	31
APPENDIX B: TERRESTRIAL VERTEBRATE SPECIES POTENTIALLY OCCURRING ON THE PROJECT SITE	34
APPENDIX C: SELECT PHOTOGRAPHS OF THE PROJECT SITE.....	38



1.0 INTRODUCTION

Live Oak Associates, Inc. (LOA) conducted an investigation of the biotic resources of an approximately 84-acre parcel (“project site” or “site”) in the outskirts of Hanford, California that is proposed for a residential subdivision. This report describes the biotic habitats of the project site, evaluates the suitability of each habitat for special status plant and animal species, identifies potentially significant impacts to sensitive or protected biological resources from the project and proposes measures that, if implemented, would mitigate those impacts to a less than significant level as defined by the California Environmental Quality Act (CEQA).

1.1 PROJECT LOCATION

The project site is located at the intersection of Grangeville Boulevard and 9 ¼ Avenue, approximately 1.25 miles north of California State Route 198 and approximately 0.4 miles southwest of California State Route 43, immediately outside of the eastern limits of the City of Hanford in Kings County, California. (Figure 1). The site can be found on the *Remnoy* U.S. Geological Survey (USGS) 7.5-minute quadrangle in Section 19, Township 18 South, Range 22 East; Mount Diablo Base and Meridian (Figure 2).

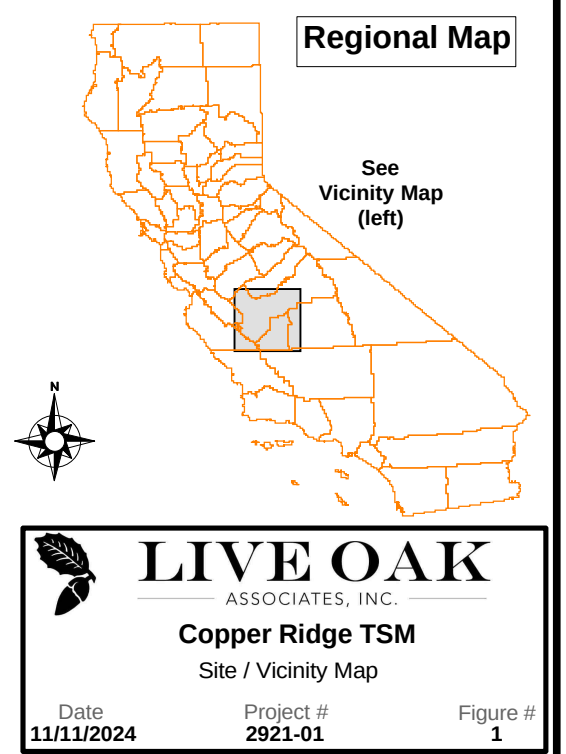
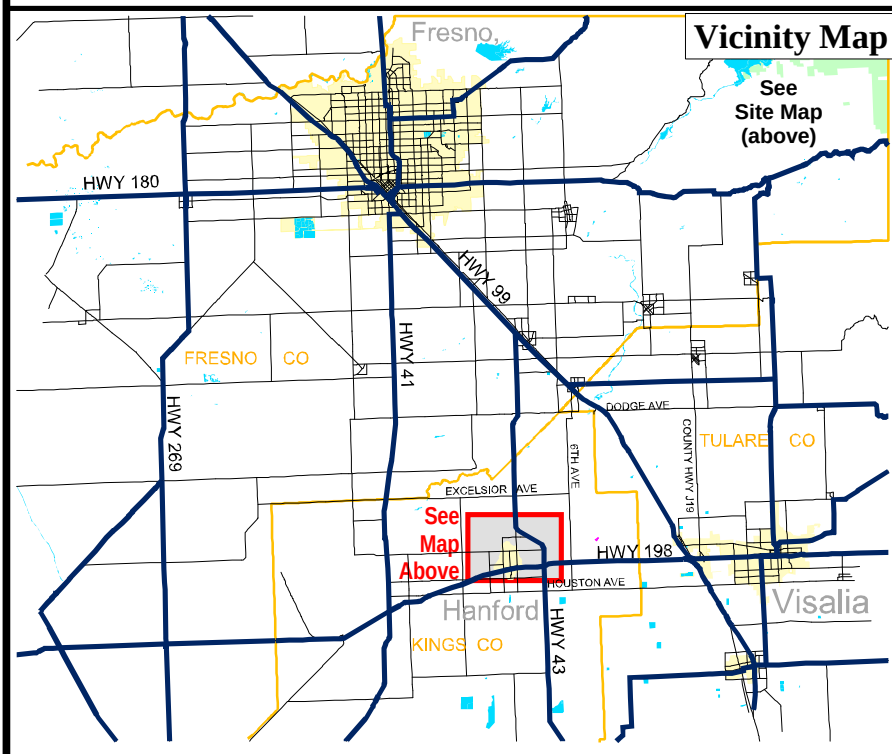
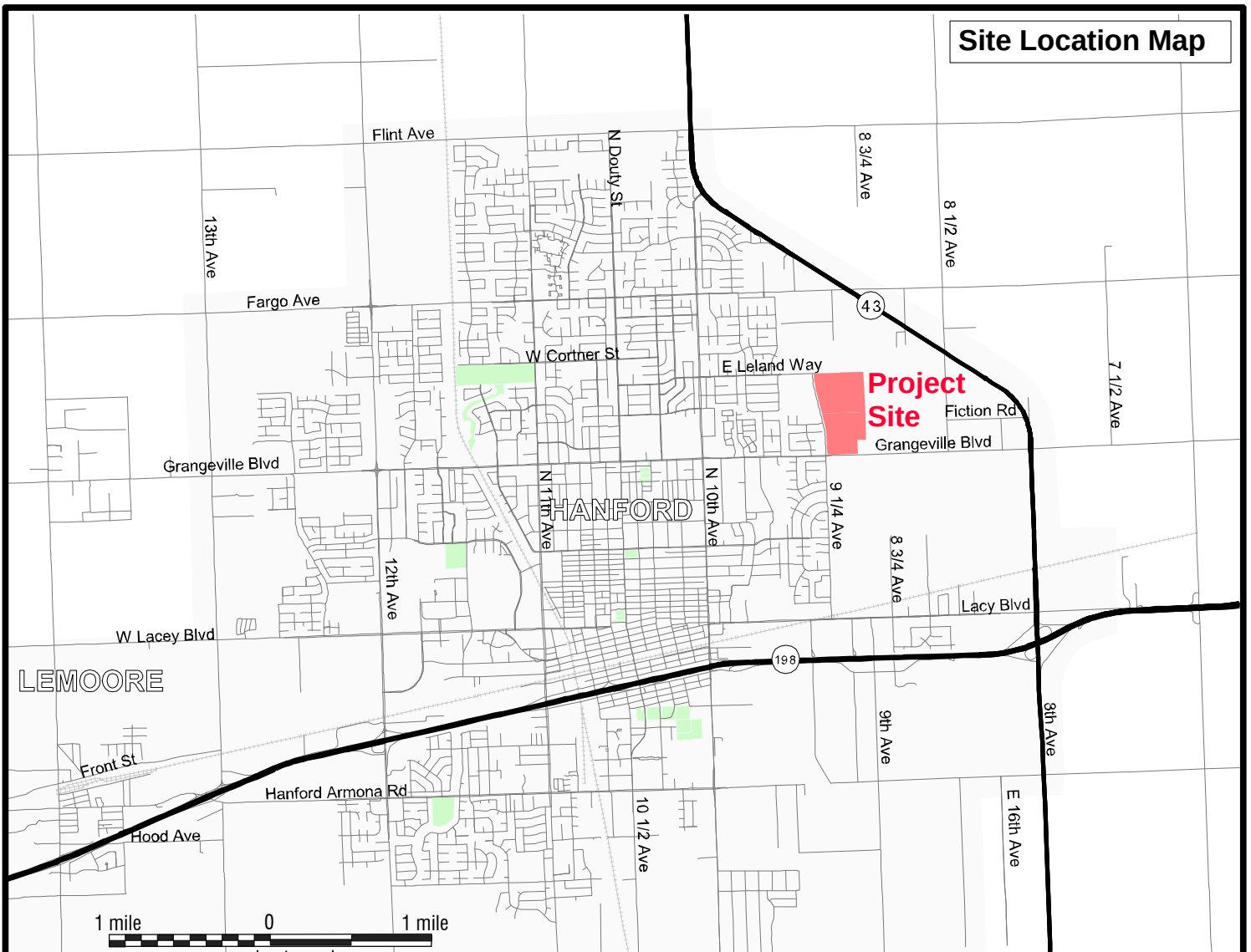
1.2 PROJECT DESCRIPTION

The project is the subdivision of the project site into 556 residential lots, a 4.33-acre commercial area, and several outlots to be dedicated to the City of Hanford, followed by buildout of the subdivision in five phases. The site will be annexed into the City of Hanford and will utilize Hanford’s city services such as water and sewer (Figure 3).

1.3 REPORT OBJECTIVES

This report summarizes a biological study conducted by LOA to facilitate environmental review pursuant to CEQA. As such, the report’s objectives are to:

- Characterize the project site’s existing biological resources, including biotic habitats, flora and fauna, soils, and aquatic resources
- Evaluate the project site’s potential to support sensitive resources such as special status species, sensitive natural communities, and jurisdictional waters and wetlands





Site Plan Courtesy of
AWE Engineering

Leland Blvd

9th Ave

Grangeville Blvd

300' 0 300 feet
approximate scale



LIVE OAK
ASSOCIATES, INC.

Copper Ridge TSM

Site Plan

Date
11/11/2024

Project #
2921-01

Figure #
3

C-N
(4.33 AC)



NOT-A-PART



-
- Summarize all state and federal natural resource protection laws that may be relevant to project implementation
 - Identify and discuss potential project-related impacts to biological resources within the context of CEQA and other state and federal laws
 - Identify avoidance and mitigation measures that would reduce the magnitude of project-related impacts in a manner consistent with CEQA and species-specific guidelines

1.4 STUDY METHODOLOGY

The analysis of impacts, as discussed in Section 3.0 of this report, is based on the known and potential biotic resources of the project site (discussed in Section 2.0). Sources of information used in the preparation of this analysis include: (1) the *California Natural Diversity Data Base* (CDFW 2024); (2) the *Inventory of Rare and Endangered Vascular Plants of California* (CNPS 2024); (3) manuals, reports, and references related to plants and animals of the San Joaquin Valley; and (4) other available planning documents and biological studies from the general project vicinity. A field survey of the project site was conducted on November 4, 2024 by LOA biologist Natalie Neff. The survey entailed conducting a meandering walk through the project site while identifying the principal land uses of the project site and the constituent plants and animals of each land use. The field survey conducted for this study was sufficient to assess the significance of possible biological impacts associated with the development plans for the project site.



2.0 EXISTING CONDITIONS

2.1 REGIONAL SETTING

The project site is located in the eastern Tulare Basin, which lies in the southern portion of the San Joaquin Valley. The San Joaquin Valley is a large, nearly flat alluvial plain bordered by the Sierra Nevada to the east, the Tehachapi Mountains to the south, the California coast ranges to the west, and the Sacramento-San Joaquin Delta to the north.

The San Joaquin Valley experiences a Mediterranean climate with warm, dry summers followed by cool, moist winters. Summer temperatures commonly exceed 100 degrees Fahrenheit, and the relative humidity is generally very low. Winter temperatures rarely exceed 70 degrees Fahrenheit with daytime highs often below 60 degrees Fahrenheit. Annual precipitation in the project vicinity varies considerably from year to year, but averages approximately 8 inches, almost all of which falls between the months of October and March in the form of rain (U.S. Climate Data 2024).

The project vicinity is characterized by a mix of urban and agricultural uses. Areas immediately surrounding the project site consist of agricultural fields and orchards to the north, east, and south and a residential area, community park and elementary school to the west. A sporadically inundated agricultural basin lies approximately 430 ft northwest of the project site and a small, ponded area enclosed by a chainlink fence sits approximately 350 ft west of the project site in a community park. The latter was constructed in conjunction with the adjoining neighborhood based on aerial imagery, and is presumably used to detain stormwater and other runoff. At the time of the survey, the ponded area supported emergent wetland and riparian vegetation.

The Kings River is the principal natural drainage in the region and runs east to west, beginning in the Sierra Nevada mountain range. The Kings River passes approximately 6.30 miles northwest of the project site at its closest point. An earthen ditch named the East Branch Peoples Ditch lies approximately 400 feet northwest of the project site at its closest point and is fed from water diverted from the Kings River to Peoples Levee.



2.2 PROJECT SITE

At the time of LOA's survey, the project site consisted of a walnut (*Juglans regia*) orchard and disked corn (*Zea mays*) field with associated agricultural infrastructure including dirt roads and irrigation equipment. Analysis of aerial imagery indicates that the site has been used for agricultural purposes since at least 1957 (Historic Aerials 2024).

The site is relatively flat with an elevation of approximately 248 feet National Geodetic Vertical Datum (NGVD) (see Figure 2). Soils of the site comprise Kimberlina fine sandy loam, sandy substream and Kimberlina fine sandy loam, saline-alkali. Neither soil is considered hydric, meaning they do not have the propensity to pond water and support hydrophytic (water-loving) vegetation. The soils of the project site have been substantially altered due to decades of agricultural use of the site and, as a result, no longer maintain their native soil characteristics and would have no particular significance to biological resources of the site.

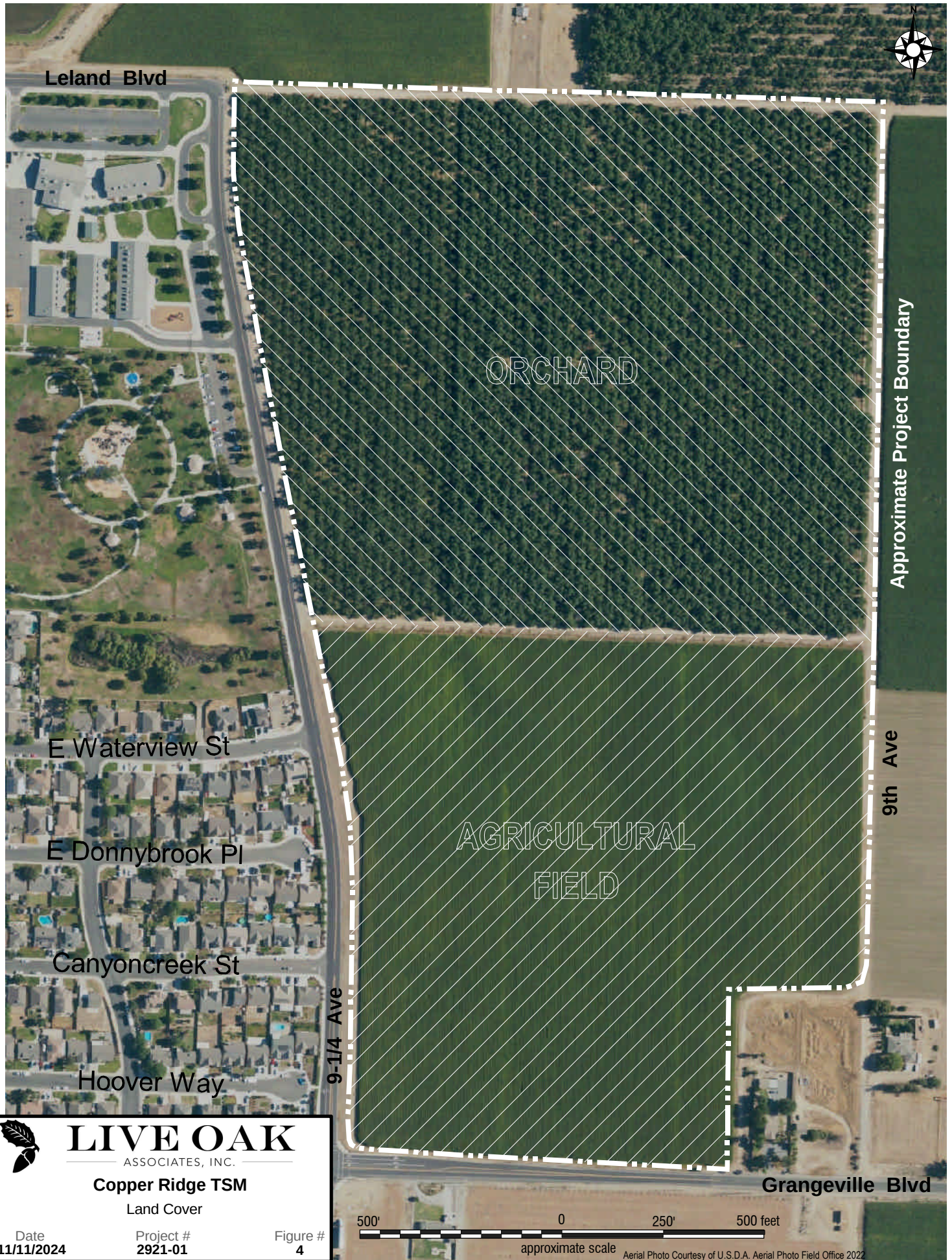
2.3 BIOTIC HABITATS

The project site contained two biotic habitats characterized as orchard and agricultural field. An aerial view of the site is presented in Figure 4. A list of vascular plants identified on the site is presented in Appendix A. A list of terrestrial vertebrates using or potentially using the project site is presented in Appendix B. Representative photos of the site are presented in Appendix C.

2.3.1 Orchard

At the time of LOA's field survey, the northern half of the site consisted of a walnut orchard bordered by agricultural roads. Vegetation within the walnut orchard consisted of common forbs and grasses such as chickweed (*Stellaria media*), lesser swinecress (*Lepidium didymum*), bearded sprangletop (*Leptochloa fusca*), and jungle rice (*Echinochloa colona*).

The site's orchard habitat may be used by a number of native wildlife species that have adapted to make use of agricultural lands. A variety of birds could nest in the orchard including mourning doves (*Zenaida macroura*), Brewer's blackbirds (*Euphagus cyanocephalus*), and American robins (*Turdus migratorius*), among others. Ground nesting birds like killdeer (*Charadrius vociferus*) are highly disturbance tolerant and could nest in the dirt roads that surround the orchard.





Though the orchard does not provide suitable nesting habitat for large raptors, it does provide some foraging habitat for hawks such as Cooper's hawk (*Accipiter cooperii*), which was seen foraging in the orchard during LOA's survey. Other avian species likely to forage within the orchard include yellow-rumped warbler (*Setophaga coronata*), American pipit (*Anthus spinoletta*), and American crow (*Corvus brachyrhynchos*), among others.

Amphibians such as the Pacific chorus frog (*Pseudacris regilla*) and western toad (*Anaxyrus boreas*) could breed in nearby aquatic habitats and subsequently disperse through the orchard. At the time of the survey, Pacific chorus frogs were heard in the off-site ponding basin located in the community park. Amphibian numbers in the orchard are expected to be low due to the asphalt road that separates the basin from the project site. Reptiles like valley gartersnake (*Thamnophis sirtalis fitchi*), gophersnake (*Pituophis melanoleucus*), common kingsnake (*Lampropeltis getulus*), and western fence lizard (*Sceloporus occidentalis*) may forage in the orchard as well.

Small mammal use of the orchard may include Botta's pocket gopher (*Thomomys bottae*), deer mouse (*Peromyscus maniculatus*), Audubon's cottontails (*Sylvilagus auduboni*), and California ground squirrel (*Otospermophilus beecheyi*). At the time of LOA's survey, burrowing rodent activity was primarily restricted to the agricultural roads within the boundary edges of the project site, though a few California ground squirrel burrows were observed in the orchard.

Common mammalian predators such as coyotes (*Canis latrans*), raccoons (*Procyon lotor*), striped skunks (*Mephitis mephitis*), and Virginia opossum (*Didelphis virginiana*) may forage through the orchard. Raccoon and Virginia opossum prints were observed within the soils of the orchard at the time of the survey. Various bat species are known to forage in walnut orchards, though roosting habitat is absent. While bats often utilize trees for roosting, the walnut trees in the orchard were not mature enough to support roosting habitat in the form of cavities or crevices nor was the canopy dense enough to provide roosting habitat for the foliage roosting hoary bat (*Lasiurus ciereus*).

2.3.2 Agricultural Field

The southern half of the project site consisted of a disked agricultural field which had previously been cultivated with corn. Vegetation within the disked corn field included weedy species such



as bearded sprangletop, Bermuda grass (*Cynodon dactylon*), rough cocklebur (*Xanthium strumarium*), and red-root amaranth (*Amaranthus retroflexus*)

The agricultural field provides relatively low wildlife value due to the high amount of disturbance it receives and general lack of vegetation; however, some common species are expected to utilize this portion of the site. Birds such as American pipits, American crows, and mourning doves could forage in the field and the disturbance tolerant killdeer could nest in the field or along the adjoining dirt roads. Open country raptors such as red-tailed hawks (*Buteo jamaicensis*) and American kestrel (*Falco sparverius*) may also forage over the field.

As previously stated, the site's proximity to the ponding basin suggests that amphibians such as Pacific tree frogs or western toads could utilize the site as upland habitat, however their numbers are expected to low, similar to those in the orchard, due to the asphalt road separating the ponding basin from the disked field. Common kingsnake, gophersnake, and side-blotched lizard (*Uta stansburiana*) may forage in the agricultural field from time to time.

Small mammal use of the agricultural field may include Botta's pocket gopher, Audubon's cottontail, deer mouse, and California ground squirrel. At the time of the survey, burrowing rodent activity was restricted to the dirt roads bordering the edges of the field and was not detected within the agricultural field.

Similar to the orchard, mammalian predators such as coyotes, raccoons, striped skunks, and Virginia opossum may forage in the agricultural field. Bats are likely to forage over the agricultural field as well, though roosting habitat is absent.



2.4 SPECIAL STATUS PLANTS AND ANIMALS

Many species of plants and animals within the state of California have low populations, limited distributions, or both. Such species may be considered “rare” and are vulnerable to extirpation as the state’s human population grows and the habitats these species occupy are converted to agricultural and urban uses. As described more fully in Section 3.0, state and federal laws have provided California Department of Fish and Wildlife (CDFW) and the U.S. Fish and Wildlife Service (USFWS) with a mechanism for conserving and protecting the diversity of plant and animal species native to the state. A sizable number of native plants and animals have been formally designated as threatened or endangered under state and federal endangered species legislation. Others have been designated as “candidates” for such listing. Still others have been designated as “species of special concern” by the CDFW. The California Native Plant Society (CNPS) has developed its own set of lists (i.e., California Rare Plant Ranks, or CRPR) of native plants considered rare, threatened, or endangered (CNPS 2024). Collectively, these plants and animals are referred to as “special status species.”

The California Natural Diversity Data Base (CNDDB) was queried for special status plant and animal occurrences in the nine USGS 7.5-minute quadrangles containing and surrounding the project site (*Laton, Burris Park, Traver, Hanford, Remnoy, Goshen, Guernsey, Waukena, and Paige*). A number of special status plants and animals were returned in the query and are summarized below in Table 1. Sources of information for this table included *California’s Wildlife, Volumes I, II, and III* (Zeiner et. al 1988-1990), *California Natural Diversity Data Base* (CDFW 2024), *The Jepson Manual: Vascular Plants of California, second edition* (Baldwin et al 2012), the *California Native Plant Society’s Inventory of Rare and Endangered Vascular Plants of California* (CNPS 2024), *Calflora.org*, and *eBird.org*.



TABLE 1. LIST OF SPECIAL STATUS SPECIES POTENTIALLY OCCURRING IN THE PROJECT VICINITY

PLANTS

CNPS-listed Species

Species	Status	Habitat	*Occurrence within the Project Site
Heartscale (<i>Atriplex cordulata</i> var. <i>cordulata</i>)	CRPR 1B.2	Occurs on saline or alkaline soils in chenopod scrub, meadows, seeps, and grasslands; blooms April-October; elevations below 1,230 ft.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Earlimart Orache (<i>Atriplex cordulata</i> var. <i>erecticaulis</i>)	CRPR 1B.2	Occurs in valley and foothill grasslands between 130 and 330 ft. in elevation; blooms August-September.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Brittlescale (<i>Atriplex depressa</i>)	CRPR 1B.2	Occurs in chenopod scrub, valley and foothill grassland, meadows and seeps, playas, and vernal pools. It is rarely found in riparian or marsh habitats. Blooms April-October; elevations below 1,050 ft.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Lesser Saltscale (<i>Atriplex minuscule</i>)	CRPR 1B.1	Occurs in cismontane woodland and valley and foothill grasslands of the San Joaquin Valley; alkaline/sandy soils; blooms May-October; elevation 50-660 ft.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Subtle Orache (<i>Atriplex subtilis</i>)	CRPR 1B.2	Occurs in alkaline vernal pools; blooms July-Oct.; elevations below 400 ft.	Absent. Vernal pool habitat is absent from the project site.
Recurved Larkspur (<i>Delphinium recurvatum</i>)	CRPR 1B.2	Occurs in alkaline soils of cismontane woodland and valley and foothill grasslands in elevations 100 – 2,000 feet. Blooms March-June.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Alkali-Sink Goldfields (<i>Lasthenia chrysantha</i>)	CRPR 1B.1	Occurs in valley grassland, alkali sink, wetland riparian areas less than 328 ft. in elevation in the southern Sacramento Valley and San Joaquin Valley. Blooms February – June.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Mud Nama (<i>Nama stenocarpa</i>)	CRPR 2B.2	Occurs in intermittently wet areas such as lake shores and river banks. Occurs sparingly in the Central Valley and more frequently in Southern California from sea level to below 1,640 feet. Blooms January-July.	Absent. Intermittently wet areas needed for the proliferation of this species are absent on the project site.
California Alkali Grass (<i>Puccinellia simplex</i>)	CRPR 1B.2	Occurs in alkali sinks and flats within grassland and chenopod scrub habitats of the Central Valley, San Francisco Bay area and western Mojave Desert; elevations below 3,000 feet. Blooms March-May.	Absent. Decades of agricultural disturbance would have eliminated any habitat that may have once been present on site or in the immediate vicinity.
Sanford's Arrowhead (<i>Sagittaria sanfordii</i>)	CRPR 1B.2	Occurs in freshwater emergent marsh habitat in drainage ditches and canals of California's Central Valley. Blooms May to October.	Absent. Aquatic habitat needed to support this species is absent from the project site.



TABLE 1. LIST OF SPECIAL STATUS SPECIES POTENTIALLY OCCURRING IN THE PROJECT VICINITY

ANIMALS

Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Act

Species	Status	Habitat	*Occurrence within the Project Site
Vernal Pool Fairy Shrimp (<i>Branchinecta lynchi</i>)	FT	Occurs in vernal pools, clear to tea-colored water in grass or mud-bottomed swales, and basalt depression pools.	Absent. Suitable habitat in the form of vernal pools is absent from the site and immediately surrounding lands.
Vernal Pool Tadpole Shrimp (<i>Lepidurus packardii</i>)	FE	Vernal pools of clear to turbid waters of the Central Valley measuring 54 sq.ft. to larger pools (largest known to be 89-acre Olcott Lake).	Absent. Suitable habitat in the form of vernal pools is absent from the site and immediately surrounding lands.
California Tiger Salamander-Central California DPS (<i>Ambystoma californiense</i>)	FT, CT	Found primarily in annual grasslands; requires vernal pools for breeding and rodent burrows for aestivation. Although most CTS aestivate within 0.4 mile of their breeding pond, outliers may aestivate up to 1.3 miles away (Orloff 2011).	Absent. The project site is situated in a matrix of urban and intensive agricultural lands within which this species would not have been able to persist. The nearest block of contiguous grassland is located more than 6 miles east of the site along Cross Creek. The closest CNDDB occurrence is over 8 miles northeast of the project site; it refers to an observation made sometime prior to 1925, from a population that is now considered extirpated (CDFW 2024).
Western Spadefoot (<i>Spea hammondi</i>)	FPT, CSC	Occurs in grasslands of San Joaquin Valley, where it breeds in vernal pools or other seasonal wetlands and aestivates in underground refugia such as rodent burrows. Baumberger et al. (2019) recorded a maximum distance of around 890 feet between breeding and aestivation sites.	Absent. The project site is situated in a matrix of urban and intensive agricultural lands within which this species would not have been able to persist. Although the basins to the west and northwest of the site may theoretically be suitable for spadefoot reproduction, they were constructed between 2003 and 2010, after the surrounding landscape was converted to unsuitable uses. The nearest block of contiguous grassland is located more than 6 miles east of the site along Cross Creek; that is also where the nearest CNDDB occurrences of this species are (CDFW 2024).



TABLE 1. LIST OF SPECIAL STATUS SPECIES POTENTIALLY OCCURRING IN THE PROJECT VICINITY

ANIMALS

Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Act

Species	Status	Habitat	*Occurrence within the Project Site
Northwestern Pond Turtle (<i>Actinemys marmorata</i>)	FPT, CSC	Found in ponds, marshes, rivers, streams, and irrigation ditches with aquatic vegetation. Requires partially submerged rocks or logs for basking sites. Nesting takes place in open areas, on a variety of soil types, and up to ¼ mile away from water. Overwintering and summertime aestivation includes use of upland habitat, generally with leaf litter or other loose substrate for burying themselves.	Unlikely. The project site consists entirely of intensive agricultural lands that lack aquatic features and offer little to no upland habitat value for this species; the latter is limited to marginal nesting opportunity in the site's disked field. Two aquatic features within ¼ mile of the site are potentially suitable for pond turtles: the ponding basin to the west and the East Branch Peoples Ditch to the northwest. Even if pond turtles occupy these features, however, they are unlikely to travel to the site for nesting. The ponding basin is completely enclosed by a chainlink fence, which would prevent this species from migrating to the project site. The East Branch Peoples Ditch is located more than 0.3 mile from the site's disked field, the one area of the site that could theoretically support nesting by this species. Furthermore, there are no nearby iNaturalist records (iNaturalist 2024) and the closest CNDDDB occurrence is approximately 9.5 miles south of the project site (CDFW 2024). For these reasons, northwestern pond turtles are unlikely to be found on the project site.
Blunt-Nosed Leopard Lizard (<i>Gambelia sila</i>)	FE, CE, FP	Occurs in semiarid grasslands, alkali flats, and washes. Avoids densely vegetated areas. Inhabits the San Joaquin Valley and adjacent valleys and foothills north to southern Merced County.	Absent. Agricultural and urban development has eliminated any potential habitat from the project site and surrounding area. There are no CNDDDB occurrences within the vicinity of the project site (CDFW 2024).
Tricolored Blackbird (<i>Agelaius tricolor</i>)	CT, CSC	Breeds colonially near fresh water in dense bulrush, cattails, thickets of willows or shrubs, and increasingly in wheat or triticale fields. Forages in grassland and cropland areas.	Possible. Tricolored blackbirds are not commonly documented in the project vicinity. There is one eBird occurrence within 5 miles of the site, documented approximately 3.5 miles to the northeast in 2002. The closest CNDDDB occurrence is approximately 10 miles south of the site, recorded in 2000. Nevertheless, this species has some potential to occur on site. The site's agricultural field is suitable for foraging, and may provide nesting habitat for this species if it is rotated to wheat or another suitable grain crop.



TABLE 1. LIST OF SPECIAL STATUS SPECIES POTENTIALLY OCCURRING IN THE PROJECT VICINITY

ANIMALS (cont'd)

Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Act

Species	Status	Habitat	*Occurrence within the Project Site
Burrowing Owl (<i>Athene cunicularia</i>)	CC, CSC	Frequents open, dry annual or perennial grasslands, deserts, and scrublands characterized by low growing vegetation. Dependent upon burrowing mammals, most notably the California ground squirrel, for nest burrows.	Unlikely. The project site does not contain suitable habitat for burrowing owls and is situated within a matrix of intensive agricultural and urban uses generally incompatible with this species' ecology. There are only two eBird sightings of burrowing owl within 10 miles of the project site, and the closest known CNDDDB occurrence is located approximately 6.5 miles northeast of the project site in the grasslands along Cross Creek, documented in 2017 (CDFW 2024).
Swainson's Hawk (<i>Buteo swainsoni</i>)	CT	This breeding migrant to California nests in mature trees in riparian areas and oak savannah, and occasionally in lone trees at the margins of agricultural fields. Requires adjacent suitable foraging areas such as grasslands or alfalfa fields supporting rodent populations.	Possible. The project site contains foraging habitat in the form of a disked field, but does not contain nesting habitat for the Swainson's hawk. Swainson's hawks do have the potential to nest in the mature trees within the immediate project vicinity. They are well-documented in the area; there are 20 CNDDDB nesting occurrences within 10 miles of the site, with the closest located just 1.5 mile to the southeast (CDFW 2024), and over 50 eBird sightings within a 10-mile radius as well (eBird 2024).
Tipton Kangaroo Rat (<i>Dipodomys nitratoide</i> <i>nitratoide</i>)	FE, CE	Inhabits valley saltbrush scrub, valley sink scrub, and grassland habitats located from the Valley floor to 300 ft. in elevation.	Absent. Suitable habitat is absent from the project site, and the site is situated in a matrix of intensive agricultural and urban uses within which this species would not have been able to persist. There are no CNDDDB occurrences in the vicinity (CDFW 2024).
San Joaquin Kit Fox (<i>Vulpes macrotis mutica</i>)	FE, CT	Desert alkali scrub, annual grasslands of California's San Joaquin Valley and Tulare Basin, extending west into San Luis Obispo County. This species may forage in adjacent agricultural fields.	Unlikely. This species was historically known from the project vicinity. There are 13 CNDDDB occurrences within 10 miles of the project site, including one occurrence just 0.75 mile from project boundaries; however, all but two of these are from the 1970s, with the remaining records from 2000 and 2006. The project site is situated in a matrix of urban and intensive agricultural land uses generally incompatible with kit fox ecology, and the site itself consists of a highly-managed orchard and agricultural field, neither of which are likely to attract individuals of this species. These factors, combined with the lack of modern sightings, suggest a very low probability of kit fox occurrence on site.



TABLE 1. LIST OF SPECIAL STATUS SPECIES POTENTIALLY OCCURRING IN THE PROJECT VICINITY

ANIMALS (cont'd)

State Species of Special Concern

Species	Status	Habitat	*Occurrence within the Project Site
Loggerhead Shrike (<i>Lanius ludovicianus</i>)	CSC	Found in a variety of arid habitats. Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	Possible. This species is known from the vicinity. There are five eBird sightings within 5 miles of the project site; the closest of these was recorded just ½ mile north of project boundaries in 2021. Loggerhead shrikes could forage over the site's agricultural field and the walnut orchard could potentially be used for nesting by this species.
Western Mastiff Bat (<i>Eumops perotis californicus</i>)	CSC	Frequents open, semi-arid to arid habitats, including conifer, and deciduous woodlands, coastal scrub, grasslands, palm oasis, chaparral and urban. Is known to forage over long distances, flying up to 15 miles a night. Roosts in cliff faces, high buildings, and tunnels.	Possible. The project site does not contain roosting habitat for this species. Though generally uncommon within the Central Valley, this species may occasionally forage over the site.

***OCCURRENCE DESIGNATIONS AND STATUS CODES**

Present: Species observed on the site at time of field surveys or during recent past.

Likely: Species not observed on the site, but it may reasonably be expected to occur there on a regular basis.

Possible: Species not observed on the site, but it could occur there from time to time.

Unlikely: Species not observed on the site, and would not be expected to occur there except, perhaps, as a transient

Absent: Species not observed on the Site and precluded from occurring there because habitat requirements not met.

STATUS CODES

FE Federally Endangered

FT Federally Threatened

FPT Federally Proposed Threatened

FC Federal Candidate

CE California Endangered

CT California Threatened

CSC California Species of Special Concern

CFP California Fully Protected

CC California Candidate for Listing

CRPR CODES

1A Plants Presumed Extinct in California

1B Plants Rare, Threatened, or Endangered in California and elsewhere

2B Plants Rare, Threatened, or Endangered in California, but more common elsewhere

2.5 JURISDICTIONAL WATERS

Jurisdictional waters are those rivers, creeks, drainages, lakes, ponds, reservoirs, and wetlands that are subject to the authority of the USACE, CDFW, and/or the RWQCB. In general, the USACE regulates navigable waters, tributaries to navigable waters, and wetlands with a continuous surface connection to these waters, where wetlands are defined by the presence of hydric soils, hydrophytic vegetation, and wetland hydrology. All waters under USACE



jurisdiction are also regulated by the RWQCB as waters of the State. Additionally, the RWQCB asserts jurisdiction over certain isolated features disclaimed by the USACE. The CDFW has jurisdiction over waters that have a defined bed and bank. The regulation of jurisdictional waters is discussed in more detail in Section 3.2.8.

Aquatic features, including any potentially jurisdictional waters or wetlands, are absent from the project site.

2.6 DESIGNATED CRITICAL HABITAT

As will be discussed further in Section 3.0, the USFWS often designates areas of “critical habitat” when it lists species as threatened or endangered. Critical habitat is a specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection.

Designated critical habitat is absent from the project site and immediately surrounding lands.

2.7 CALIFORNIA SENSITIVE NATURAL COMMUNITIES

California contains a wide range of natural communities, or unique assemblages of plants and animals. These communities have largely been classified and mapped by CDFW as part of their Vegetation Classification and Mapping Program (VegCAMP). Natural communities are assigned state and global ranks according to their rarity and the magnitude and trend of the threats they face. Any natural community with a state rank of 3 or lower (on a 1 to 5 scale) is considered “sensitive” and must be considered in CEQA review.

No habitats designated as a Sensitive Natural Community by CDFW or any other sensitive habitats are present on the site or surrounding lands.

2.8 WILDLIFE MOVEMENT CORRIDORS

Wildlife movement corridors are routes that animals regularly and predictably follow during seasonal migration, dispersal from native ranges, daily travel within home ranges, and inter-population movements. Movement corridors in California are typically associated with valleys, rivers and creeks supporting riparian vegetation, and ridgelines.



The project site does not contain or adjoin any geographic features that could function as a wildlife movement corridor.



3.0 RELEVANT GOALS, POLICIES, AND LAWS

3.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT

In California, any project carried out or approved by a public agency that will result in a direct or reasonably foreseeable indirect physical change in the environment must comply with CEQA. The purpose of CEQA is to ensure that a project's potential impacts on the environment are evaluated and methods for avoiding or reducing these impacts are considered before the project is allowed to move forward. A secondary aim of CEQA is to provide justification to the public for the approval of any projects involving significant impacts on the environment.

According to Section 15382 of the CEQA Guidelines, a significant effect on the environment means a “substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project, including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic interest.” Although the lead agency may set its own CEQA significance thresholds, project impacts to biological resources are generally considered to be significant if they would meet any of the following criteria established in Appendix G of the CEQA Guidelines:

- Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by CDFW or USFWS.
- Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by CDFW or USFWS.
- Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.
- Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites.
- Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.
- Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.



Furthermore, CEQA Guidelines Section 15065(a) requires the lead agency to make “mandatory findings of significance” if there is substantial evidence that a project may:

- Substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, or substantially reduce the number or restrict the range of an endangered, rare or threatened species.
- Achieve short-term environmental goals to the detriment of long-term environmental goals.
- Produce environmental effects that are individually limited but cumulatively considerable, meaning that the incremental effects of the project are significant when viewed in connection with the effects of past projects, other current projects, and probable future projects.

3.2 OTHER RELEVANT LAWS AND POLICIES

3.2.1 General Plan Policies of the City of Hanford

In compliance with CEQA, the lead agency must consider conformance with applicable goals and policies of the City of Hanford General Plan. The City of Hanford General Plan was released in March 2014 and is valid through 2034. Implementation of goals in the general plan is accomplished via a set of policies specific to each goal.

Relevant biological resource goals of the City of Hanford General Plan can be found in Chapter 5: Open Space, Conservation, and Recreation; and are as follows:

- Preserve and enhance natural open space areas;
- Where feasible, establish permanent mechanisms to protect wetlands and riparian corridors;
- Identify and protect vernal pools;
- Avoid potential negative impacts of increased human activity on sensitive habitat areas when establishing new recreational facilities/programs;
- Ensure potential impacts to biological resources and sensitive habitat are carefully evaluated when considering development projects;
- Manage or eliminate nonnative invasive species from City-owned property and open space;



-
- Promote the preservation of existing mature trees and encourage the planting of appropriate shade trees in new developments;
 - Encourage the planting of native trees and drought-tolerant vegetation;
 - Establish programs in connection with environmental review process to protect endangered wildlife and their habitats;
 - Work with state, federal, and local agencies on the preservation of sensitive wildlife species in the City

3.2.2 Threatened and Endangered Species

In California, imperiled plants and animals may be afforded special legal protections under the California Endangered Species Act (CESA) and/or Federal Endangered Species Act (FESA). Species may be listed as “threatened” or “endangered” under one or both Acts, and/or as “rare” under CESA. Under both Acts, “endangered” means a species is in danger of extinction throughout all or a significant portion of its range, and “threatened” means a species is likely to become endangered within the foreseeable future. Under CESA, “rare” means a species may become endangered if their present environment worsens. Both Acts prohibit “take” of listed species, defined under CESA as “to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture or kill” (California Fish and Game Code, Section 86), and more broadly defined under FESA to include “harm” (16 USC, Section 1532(19), 50 CFR, Section 17.3). The USFWS commonly interprets “take” to include the loss of habitat utilized by a listed species.

When state and federally listed species have the potential to be impacted by a project, the USFWS and CDFW must be included in the CEQA process. These agencies review the environmental document to determine the adequacy of its treatment of endangered species issues and to make project-specific recommendations for the protection of listed species. Projects that may result in the “take” of listed species must generally enter into consultation with the USFWS and/or CDFW pursuant to FESA and CESA, respectively. In some cases, incidental take authorization(s) from these agencies may be required before the project can be implemented.

3.2.3 California Fully Protected Species

The classification of certain animal species as “fully protected” was the State of California’s initial effort in the 1960s, prior to the passage of the California Endangered Species Act (CESA), to



identify and provide additional protection to those species that were rare or faced possible extinction. Following CESA enactment in 1970, many fully protected species were also listed as California threatened or endangered. The list of fully protected species are identified, and their protections stipulated, in California Fish and Game Code Sections 3511 (birds), 4700 (mammals), 5050 (reptiles and amphibians), and fish (5515). Fully protected species may not be taken or possessed at any time and no licenses or permits may be issued for their take, except in conjunction with necessary scientific research and protection of livestock.

3.2.4 Migratory Birds

The Federal Migratory Bird Treaty Act (FMBTA: 16 USC 703-712) prohibits killing, possessing, or trading in any bird species covered in one of four international conventions to which the United States is a party, except in accordance with regulations prescribed by the Secretary of the Interior. The name of the act is misleading, as it actually covers almost all birds native to the United States, even those that are non-migratory. The FMBTA encompasses whole birds, parts of birds, and bird nests and eggs.

Native birds are also protected under California state law. The California Fish and Game Code makes it unlawful to take or possess any non-game bird covered by the FMBTA (Section 3513), as well as any other native non-game bird (Section 3800), even if incidental to lawful activities.

3.2.5 Birds of Prey

Birds of prey are also protected in California under provisions of the State Fish and Game Code, Section 3503.5, 1992), which states that it is “unlawful to take, possess, or destroy any birds in the order *Falconiformes* or *Strigiformes* (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto.” Construction disturbance during the breeding season could result in the incidental loss of fertile eggs or nestlings, or otherwise lead to nest abandonment. Disturbance that causes nest abandonment and/or loss of reproductive effort is considered “taking” by the CDFW.



3.2.6 Nesting Birds

In California, protection is afforded to the nests and eggs of all birds. California Fish and Game Code (Section 3503) states that it is “unlawful to take, possess, or needlessly destroy the nest or eggs of any bird except as otherwise provided by this code or any regulation adopted pursuant thereto.” Breeding-season disturbance that causes nest abandonment and/or loss of reproductive effort is considered a form of “take” by the CDFW.

3.2.7 Habitat Conservation Plans and Natural Community Conservation Plans

Section 10 of the federal Endangered Species Act establishes a process by which non-federal projects can obtain authorization to incidentally take listed species, provided take is minimized and thoroughly mitigated. A Habitat Conservation Plan (HCP), developed by the project applicant in collaboration with the USFWS and/or NMFS, ensures that such minimization and mitigation will occur, and is a prerequisite to the issuance of a federal incidental take permit. Similarly, a Natural Community Conservation Plan (NCCP), developed by the project applicant in collaboration with CDFW, provides for the conservation of biodiversity within a project area, and permits limited incidental take of state-listed species.

3.2.8 Wetlands and Other Jurisdictional Waters

Section 404 of the federal Clean Water Act (CWA) regulates the discharge of dredged or fill material into “navigable waters” (33 U.S.C. §1344), defined in the CWA as “the waters of the United States, including the territorial seas” (33 U.S.C. §1362(7)). The CWA does not supply a definition for waters of the U.S., and that has been the subject of considerable debate since the CWA’s passage in 1972. A variety of regulatory definitions have been promulgated by the two federal agencies responsible for implementing the CWA, the Environmental Protection Agency (EPA) and USACE. These definitions have been interpreted, and in some cases, invalidated, by federal courts.

Waters of the U.S. are presently defined by the EPA and USACE’s joint 2023 Revised Definition of ‘Waters of the U.S.’ Rule (2023 WOTUS Rule), issued in January 2023 and amended in August 2023. Generally speaking, waters of the U.S. include:



-
- Waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide
 - The territorial seas
 - Interstate waters
 - Impoundments of waters otherwise defined as waters of the United States under the definition
 - Tributaries to other waters of the U.S. that are relatively permanent, standing or continuously flowing bodies of water
 - Wetlands adjacent to other waters of the U.S. that have a continuous surface connection to those waters

The 2023 WOTUS Rule also defines a number of exclusions from the definition of waters of the U.S., many of which are longstanding exclusions from earlier regulatory regimes. These generally include:

- Waste treatment systems
- Prior converted cropland
- Ditches excavated wholly in and draining only dry land that do not carry a relatively permanent flow of water
- Certain artificial features, e.g. irrigation basins, swimming pools, borrow pits, and artificially irrigated areas
- Swales and erosional features characterized by low volume, infrequent, or short duration flow

All activities that involve the discharge of dredge or fill material into waters of the U.S. are subject to the permit requirements of the USACE. Such permits are typically issued on the condition that the applicant agrees to provide mitigation that result in no net loss of wetland functions or values.

Under the Porter-Cologne Water Quality Control Act of 1969, the State Water Resources Control Board (SWRCB) has regulatory authority to protect the water quality of all surface water and groundwater in the State of California (“waters of the State”). Nine RWQCBs oversee water quality at the local and regional level. The RWQCB for a given region regulates discharges of fill or pollutants into waters of the State through the issuance of various permits and orders.



Discharges into waters of the State that are also waters of the U.S. require a Section 401 Water Quality Certification from the RWQCB as a prerequisite to obtaining a Section 404 Clean Water Act permit. Discharges into waters of the State that are not also waters of the U.S. require Waste Discharge Requirements (WDRs), or waivers of WDRs, from the RWQCB.

The SWRCB and RWQCBs also administer the federal National Pollution Discharge Elimination System (NPDES) program, which is concerned with the discharge of stormwater and other pollutants into water bodies. Projects that disturb one or more acres of soil must obtain coverage under the SWRCB's current NPDES Construction Stormwater General Permit. A prerequisite for permit coverage is the development of a Storm Water Pollution Prevention Plan (SWPPP) by a certified Qualified SWPPP Developer. Other types of pollutant discharges into waters of the U.S., such as wastewater, may require coverage under a different NPDES general permit, and in some cases an individual permit.

CDFW has jurisdiction over the bed and bank of natural drainages and lakes according to provisions of Section 1601 and 1602 of the California Fish and Game Code. Activities that may substantially modify such waters through the diversion or obstruction of their natural flow, change or use of any material from their bed or bank, or the deposition of debris require a Notification of Lake or Streambed Alteration. If CDFW determines that the activity may adversely affect fish and wildlife resources, a Lake or Streambed Alteration Agreement will be prepared. Such an agreement typically stipulates that certain measures will be implemented to protect the habitat values of the lake or drainage in question.



4.0 IMPACTS AND MITIGATIONS

The project considered in this evaluation of impacts to biological resources is the conversion of 84 acres of agricultural lands to a residential subdivision. This analysis assumes that all areas of the site will experience permanent impacts from proposed development.

4.1 POTENTIALLY SIGNIFICANT PROJECT IMPACTS

4.1.1 Potential Project Impacts to Nesting Raptors and Migratory Birds Including Tricolored Blackbird, Loggerhead Shrike, and Swainson's Hawk

Potential Impacts. The site's agricultural field could support nesting by ground- or vegetation-nesting birds such as the mourning dove, western meadowlark (*Sturnella neglecta*), and (when planted to a suitable grain such as wheat or triticale), the red-winged blackbird (*Agelaius phoeniceus*) and possibly even the California Threatened tricolored blackbird (*Agelaius tricolor*). The site's orchard trees have the potential to be used for nesting by a variety of migratory birds, possibly including the loggerhead shrike (*Lanius ludovicianus*), a California Species of Concern. Larger trees in the immediate project vicinity have the potential to support nesting raptors, possibly including the Swainson's hawk (*Buteo swainsoni*), a California Threatened species. Nearly all birds are protected by state and federal law. If project construction takes place during the nesting season, birds nesting on site could be injured or killed by construction activities, while birds nesting near the site could be disturbed such that they would abandon their nests. Construction-related mortality of nesting birds and disturbance leading to nest abandonment would violate state and federal laws and constitute a significant impact of the project.

Tricolored blackbirds, Swainson's hawks, and loggerhead shrikes are not expected to be adversely affected by project-related loss of habitat. The site does not offer unique habitat for any of these species, nor is it likely to represent an important part of any individual foraging range, given its disturbed nature and urban setting. Similar and higher quality habitats are abundant in the project vicinity and elsewhere in the region. Project-related loss of habitat for these species is considered a less than significant impact under CEQA.

Mitigation. The following measures will be implemented for the protection of nesting birds and raptors including the tricolored blackbird, Swainson's hawk, and loggerhead shrike.



Mitigation Measure 4.1.1a (Construction Timing). If feasible, future construction activities will take place entirely outside of the avian nesting season, defined as February 1 to August 31.

Mitigation Measure 4.1.1b (Preconstruction Surveys). If construction must occur between February 1 and August 31, a qualified biologist will conduct surveys for active bird nests within 7 days prior to the start of work during this period. The survey area will encompass the site and accessible surrounding lands within ¼ mile for nesting Swainson's hawks, 500 feet for other nesting raptors, 300 feet for the tricolored blackbird, and 250 feet for other nesting birds.

Mitigation Measure 4.1.1c (Avoidance of Active Nests). Should any active nests be discovered in or near proposed construction zones, the biologist will identify a suitable construction-free buffer around the nest. This buffer will be identified on the ground with flagging or fencing and will be maintained until the biologist has determined that the young have fledged and are capable of foraging independently.

Implementation of the above measures will reduce potential project impacts to nesting birds and raptors, including the tricolored blackbird, loggerhead shrike, and Swainson's hawk, to a less than significant level under CEQA and facilitate compliance with state and federal laws protecting these species.

4.2 LESS THAN SIGNIFICANT PROJECT IMPACTS

4.2.1 Potential Project Impacts to Special Status Plants

Potential Impacts. Ten (10) special status plant species have been documented in the project vicinity (see Table 1). All ten species are considered absent from the project site due to an absence of suitable habitat and/or soils, the site's being situated outside of the species' distribution, or a combination thereof. Therefore, impacts to special status plants are considered less than significant under CEQA.

Mitigation. Mitigation measures are not warranted.

4.2.2 Potential Project Impacts to Special Status Animal Species Absent from or Unlikely to Occur Within the Project Site

Potential Impacts. Of the thirteen (13) special status animal species that potentially occur in the general vicinity of the site, nine are considered absent from or unlikely to occur within the project site due to the absence of suitable habitat and/or the project site being situated outside of the



species' known distribution (see Table 1). These comprise the vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardii*), California tiger salamander (*Ambystoma californiense*), western spadefoot (*Spea hammondi*), northwestern pond turtle (*Actinemys marmorata*), blunt-nosed leopard lizard (*Gambelia sila*), burrowing owl (*Athene cunicularia*), Tipton kangaroo rat (*Dipodomys nitratoide nitratoide*), and San Joaquin kit fox (*Vulpes macrotis mutica*). The project is expected to have an insignificant effect or no effect on these species through construction mortality/disturbance or loss of habitat because there is little or no likelihood that they are present.

Mitigation. Mitigation is not warranted.

4.2.3 Project Impacts to Special Status Animal Species that Would Use the Site for Non-Sensitive Activities Only

Potential Impacts. One special status animal species, the western mastiff bat (*Eumops perotis* ssp. *californicus*), has the potential to pass through or forage on the site from time to time but would not roost on or near enough to the site that they could be vulnerable to construction-related disturbance or reproductive failure (see Table 1). Individuals of this species are unlikely to be injured or killed by construction activities because they are highly mobile while foraging and would be expected to simply avoid active work areas.

The project would not adversely affect this species through loss of foraging habitat. The site does not offer unique foraging habitat for the western mastiff bat, nor is it likely to represent an important part of any individual foraging range, given its disturbed nature and urban setting. Similar and higher quality foraging habitats are abundant in the project vicinity and elsewhere in the region.

Mitigation. Mitigation is not warranted.

4.2.4 Potential Project Impacts to Jurisdictional Waters

Potential Impacts. As discussed, the project site does not contain or adjoin any aquatic features. No impacts to jurisdictional waters are anticipated.

Mitigation. Mitigation is not warranted.



4.2.5 Potential Project Impacts to Wildlife Movement Corridors

Potential Impacts. The project site does not contain or adjoin any geographic features that could function as a wildlife movement corridor. Therefore, the project will have no impact on wildlife movement corridors.

Mitigation. Mitigation is not warranted.

4.2.6 Project Impacts to Sensitive Natural Communities and Designated Critical Habitat

Potential Impacts. Sensitive Natural Communities and Designated Critical Habitat are absent from the project site and surrounding lands. Project development would have no impact on Sensitive Natural Communities or Designated Critical Habitat.

Mitigation. No mitigation is warranted.

4.2.7 Consistency with Local Policies and Ordinances

Potential Impacts. The project appears consistent with the City of Hanford General Plan policies related to biological resources.

Mitigation. Mitigation measures are not warranted.

4.2.8 Consistency with Habitat Conservation Plans and Natural Community Conservation Plans

Potential Impacts. There are no known HCPs or NCCPs that would apply to the project.

Mitigation. Mitigation measures are not warranted.



LITERATURE REFERENCED OR CITED

- Baldwin, B. G., D. H. Goldman, D. J. Keil, R. Patterson, and T. J. Rosatti, Eds. 2012. The Jepson Manual: Vascular Plants of California, 2nd edition. University of California Press, Berkeley, CA.
- Calflora. 2024. Calflora: An online database of plant identification and distribution [web application]. Calflora, Berkeley, California. Available: <http://www.calflora.org>.
- California Department of Fish and Wildlife (CDFW). 2024. California Natural Diversity Database. The Resources Agency, Sacramento, CA.
- _____. 2002. California Fish and Game Code. Gould Publications. Binghamton, NY.
- California Native Plant Society. 2024. Inventory of Rare and Endangered Vascular Plants of California. Available: <http://cnps.site.aplus.net/cgi-bin/inv/inventory.cgi>.
- California Soil Resource Lab. 2008. Streaming, seamless interface to USDA-NCSS SSURGO and STATSGO Soil Survey Products.
- ECORP Consulting Inc. April 2007. Tulare Lake Basin Hydrology and Hydrography: A Summary of the Movement of Water and Aquatic Species. Available: <https://www.epa.gov/sites/default/files/2018-05/documents/tulare-fullreport.pdf>
- eBird. 2024. eBird: An online database of bird distribution and abundance [web application]. eBird, Cornell Lab of Ornithology, Ithaca, New York. Available: <http://www.ebird.org>.
- Historic Aerials. 2024. Nationwide Environmental Title Research, LLC. Available: <https://www.historicaerials.com/about-us>
- iNaturalist. 2024. Available: <https://www.inaturalist.org/>
- Jepson Flora Project (eds.) 2024. Jepson eFlora, Available: <https://ucjeps.berkeley.edu/eflora/>
- Nafis, G. 2024. California Herps - A Guide to the Amphibians and Reptiles of California. Available: <http://www.californiaherps.com/>
- U.S. Climate Data. 2024. Climate Hanford- California. Available: <https://www.usclimatedata.com/climate/hanford/california/united-states/usca0605>
- U.S. Corps of Engineers. 1987. Corps of Engineers wetlands delineation manual. Department of the Army.
- Zeiner, David C., William F. Laudenslayer, Kenneth E. Mayer and Marshal White. Ed. 1988. California's wildlife, volume I, amphibians and reptiles, volume II, birds, and volume III, mammals. Department of Fish and Game. Sacramento, CA. Available: <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.



APPENDIX A: VASCULAR PLANTS OF THE PROJECT SITE



APPENDIX A VASCULAR PLANTS OF THE PROJECT SITE

The plant species listed below were observed on the project site during LOA's November 4, 2024 surveys. The wetland indicator status of each plant, derived from the USACE-administered National Wetland Plant List for the Arid West Region, has been shown following its common name if available.

OBL - Obligate
FACW - Facultative Wetland
FAC - Facultative
FACU - Facultative Upland
UPL - Upland

AMARANTHACEAE – Amaranth Family

<i>Amaranthus blitoides</i>	Procumbent Pigweed	FACU
<i>Amaranthus retroflexus</i>	Redroot Amaranth	FACU

ARECACEAE – Palm Family

<i>Washingtonia spp.</i>	Fan Palm	FACW
--------------------------	----------	------

ASTERACEAE – Sunflower Family

<i>Erigeron spp.</i>	Fleabane	FACU
<i>Lactuca serriola</i>	Prickly Lettuce	FACU
<i>Pseudognaphalium luteoalbum</i>	Jersey Cudweed	FAC
<i>Sonchus oleraceus</i>	Common Sow Thistle	UPL
<i>Xanthium strumarium</i>	Rough Cocklebur	FAC

BORAGINACEAE – Borage Family

<i>Heliotropium curassavicum</i>	Salt Heliotrope	FACU
----------------------------------	-----------------	------

BRASSICACEAE – Mustard Family

<i>Capsella bursa-pastoris</i>	Shepherd's purse	FACU
<i>Lepidium didymum</i>	Lesser Swine-cress	UPL

CARYOPHYLLACEAE – Carnation Family

<i>Stellaria media</i>	Common Chickweed	FACU
------------------------	------------------	------

CHENOPODIACEAE—Goosefoot Family

<i>Salsola tragus</i>	Russian Thistle	FACU
-----------------------	-----------------	------

CYPERACEAE – Carnation Family

<i>Cyperus rotundus</i>	Purple Nutsedge	FAC
-------------------------	-----------------	-----

JUGLANDACEAE – Walnut Family

<i>Juglans regia</i>	Walnut	UPL
----------------------	--------	-----

MALVACEAE – Mallow Family

<i>Malva parviflora</i>	Cheeseweed	UPL
-------------------------	------------	-----

POACEAE – Grass Family

<i>Cynodon dactylon</i>	Bermuda Grass	FAC
<i>Echinochloa colonum</i>	Jungle Rice	FAC
<i>Echinochloa crus-galli</i>	Barnyard Grass	FACW
<i>Leptochloa fusca</i>	Bearded Sprangletop	FACU



<i>Taeniatherum caput-medusae</i>	Medusahead	UPL
<i>Triticum aestivum</i>	Common Wheat	UPL
<i>Zea mays</i>	Corn	UPL
PORTULACEAE – Purslane Family		
<i>Portulaca oleracea</i>	Common Purslane	FAC
ZYGOPHYLLACEAE – Caltrops Family		
<i>Tribulus terrestris</i>	Puncturevine	UPL



APPENDIX B: TERRESTRIAL VERTEBRATE SPECIES POTENTIALLY OCCURRING ON THE PROJECT SITE



APPENDIX B TERRESTRIAL VERTEBRATE SPECIES THAT POTENTIALLY OCCUR ON THE PROJECT SITE

The species listed below are those that may be expected to routinely and predictably use or pass through the project site during some or all of the year. An asterisk denotes a species observed on or immediately adjacent to the site during surveys conducted by LOA on November 4, 2024.

CLASS: AMPHIBIA

ORDER: ANURA (Frogs and Toads)

FAMILY: BUFONIDAE (True Toads)

Western Toad (*Bufo boreas*)

FAMILY: HYLIDAE (Treefrogs and Relatives)

Pacific Tree Frog (*Pseudacris regilla*)

CLASS: REPTILIA

ORDER: SQUAMATA (Lizards and Snakes)

SUBORDER: SAURIA (Lizards)

FAMILY: PHRYNOSOMATIDAE

Side-blotched Lizard (*Uta stansburiana*)

Western Fence Lizard (*Sceloporus occidentalis*)

SUBORDER: SERPENTES (Snakes)

FAMILY: COLUBRIDAE (Colubrids)

Pacific Gopher Snake (*Pituophis catenifer catenifer*)

Common Kingsnake (*Lampropeltis californiae*)

Valley Gartersnake (*Thamnophis sirtalis fitchi*)

FAMILY: VIPERIDAE (Vipers)

Western Rattlesnake (*Crotalus viridis*)

CLASS: AVES

ORDER: CICONIIFORMES (Herons, Storks, Ibises and Relatives)

FAMILY: CATHARTIDAE (New World Vultures)

Turkey Vulture (*Cathartes aura*)

ORDER: FALCONIFORMES (Vultures, Hawks, and Falcons)

FAMILY: ACCIPITRIDAE (Hawks, Old World Vultures, and Harriers)

*Cooper's Hawk (*Accipiter cooperi*)

Red-tailed Hawk (*Buteo jamaicensis*)

ORDER: CHARADRIIFORMES (Shorebirds)

FAMILY: CHARADRIIDAE (Plovers, Dotterels, and Lapwings)

*Killdeer (*Charadrius vociferus*)

ORDER: COLUMBIFORMES (Pigeons and Doves)

FAMILY: COLUMBIDAE (Pigeons and Doves)

Rock Pigeon (*Columba livia*)

*Mourning Dove (*Zenaida macroura*)

Eurasian Collared Dove (*Streptopelia decaocto*)

ORDER: STRIGIFORMES (Owls)

FAMILY: TYTONIDAE (Barn Owls)



Barn Owl (*Tyto alba*)

ORDER: PASSERIFORMES (Perching Birds)

FAMILY: TYRANNIDAE (Tyrant Flycatchers)

Black Phoebe (*Sayornis nigricans*)

Western Kingbird (*Tyrannus verticalis*)

FAMILY: CORVIDAE (Jays, Magpies, and Crows)

California Scrub Jay (*Aphelocoma coerulescens*)

*American Crow (*Corvus brachyrhynchos*)

Common Raven (*Corvus corax*)

FAMILY: HIRUNDINIDAE (Swallows)

Cliff Swallow (*Petrochelidon pyrrhonota*)

Barn Swallow (*Hirundo rustica*)

FAMILY: AEGITHALIDAE (Bushtits)

Bushtit (*Psaltiriparus minimus*)

FAMILY: REGULIDAE (Kinglets)

Ruby-crowned Kinglet (*Corthylio calendula*)

FAMILY: TURDIDAE (Thrushes)

Western Bluebird (*Sialia mexicana*)

American Robin (*Turdus migratorius*)

FAMILY: MIMIDAE (Mockingbirds and Thrashers)

Northern Mockingbird (*Mimus polyglottos*)

FAMILY: MOTACILLIDAE (Wagtails, Longclaws, and Pipits)

*American Pipit (*Anthus rubescens*)

FAMILY: PARULIDAE (Wood Warblers and Relatives)

*Yellow-rumped Warbler (*Dendroica coronata*)

FAMILY: STURNIDAE (Starlings and Allies)

European Starling (*Sturnus vulgaris*)

FAMILY: EMBERIZIDAE (Sparrows)

White-crowned Sparrow (*Zonotrichia leucophrys*)

FAMILY: ICTERIDAE (Blackbirds, Orioles and Allies)

Western Meadowlark (*Sturnella neglecta*)

Red-winged Blackbird (*Agelaius phoeniceus*)

Great-tailed Grackle (*Quiscalus mexicanus*)

Brewer's Blackbird (*Euphagus cyanocephalus*)

Brown-headed Cowbird (*Molothrus ater*)

Bullock's Oriole (*Icterus bullock*)

FAMILY: FRINGILLIDAE (Finches)

House Finch (*Carpodacus mexicanus*)

Lesser Goldfinch (*Carduelis psaltria*)

FAMILY: PASSERIDAE (Old World Sparrows)

House Sparrow (*Passer domesticus*)

CLASS: MAMMALIA

ORDER: DIDELPHIMORPHIA (Marsupials)

FAMILY: DIDELPHIDAE (Opossums)

*Virginia Opossum (*Didelphis virginiana*)

ORDER: CHIROPTERA (Bats)



FAMILY: VESPERTILIONIDAE (Vespertilionid Bats)

Yuma Myotis (*Myotis yumanensis*)
California Myotis (*Myotis californicus*)
Western Pipistrelle (*Pipistrellus hesperus*)
Big Brown Bat (*Eptesicus fuscus*)

FAMILY: MOLOSSIDAE (Free-tailed Bat)

Brazilian Free-tailed Bat (*Tadarida brasiliensis*)

ORDER: LAGOMORPHA (Rabbits, Hares, and Pikas)

FAMILY: LEPORIDAE (Rabbits and Hares)

Audubon's Cottontail (*Sylvilagus audubonii*)

ORDER: RODENTIA (Rodents)

FAMILY: SCIURIDAE (Squirrels, Chipmunks, and Marmots)

*California Ground Squirrel (*Otospermophilus beecheyi*)

FAMILY: GEOMYIDAE (Pocket Gophers)

*Botta's Pocket Gopher (*Thomomys bottae*)

FAMILY: MURIDAE (Mice, Rats and Voles)

Western Harvest Mouse (*Reithrodontomys megalotis*)
Deer Mouse (*Peromyscus maniculatus*)
Norway Rat (*Rattus norvegicus*)
House Mouse (*Mus musculus*)
California Vole (*Microtus californicus*)

ORDER: CARNIVORA (Carnivores)

FAMILY: CANIDAE (Foxes, Wolves, and Relatives)

Red Fox (*Vulpes vulpes*)
Coyote (*Canis latrans*)
*Domestic Dog (*Canis familiaris*)

FAMILY: PROCYONIDAE (Raccoons and Relatives)

*Raccoon (*Procyon lotor*)

FAMILY: MUSTELIDAE (Weasels and Relatives)

Striped Skunk (*Mephitis mephitis*)

FAMILY: FELIDAE (Cats)

*Feral Cat (*Felis catus*)



APPENDIX C:
SELECT PHOTOGRAPHS OF THE PROJECT SITE



Photo 1: Representative photo of walnut orchard approximately a week after being watered.



Photo 2: Representative photo of California ground squirrel burrow (bottom left) found adjacent to the orchard. North edge of orchard, facing east.



Photo 3: Middle of project site on west side, facing east. Agricultural road with the walnut orchard on left, disked corn field on right, residential area with mature trees seen in background.



Photo 4: Middle of project site on east side, facing northwest. Agricultural road with the walnut orchard on right, disked corn field on left, 9 ¼ Avenue and residential area with mature trees seen in background



Photo 5: Southern boundary of project site, facing east. Disked cornfield on left, residential area with mature trees in background, Grangeville Boulevard on right.



Photo 6: Northwest boundary of project site, facing south. Walnut orchard on left, 9 ¼ Avenue, trees and ponded area on right (surrounded by chainlink fence), residential area in background.

Appendix D

Cultural Resources Assessment

Cultural Resources Assessment for the Copper Ridge Tentative Subdivision Map Project, Kings County, California

Consuelo Y. Sauls

Prepared By



Taylored Archaeology
6083 N. Figarden Dr., Ste 616
Fresno, CA 93722

Prepared For

N&M Capital, LLC
1878 Mooney Blvd.
Tulare, CA 93274

November 2024

USGS Remnoy 7.5' topographic quadrangle;
83 total project acres; 83 acres surveyed
Keywords: Negative findings

MANAGEMENT SUMMARY

Taylorred Archaeology completed a Phase I Cultural Resources Assessment for Copper Ridge Tentative Subdivision Maps Project (Project). The Project consists of an 83-acre property in unincorporated Kings County, California at the northeast corner of 9 ¼ Avenue and Grangeville Boulevard near the City of Hanford. The proposed Project includes the development of 556 single-family homes and 4.33 acres of commercial development constructed in five phases. The Project is subject to the California Environmental Quality Act (CEQA).

This Phase I Cultural Resources Assessment in compliance with CEQA requirements, entails (1) a records search from the Southern San Joaquin Valley Information Center (SSJVIC) of the California Historical Resources Information System (CHRIS), (2) archival research, (3) a search of the Native American Heritage Commission's (NAHC) Sacred Lands File, a request for Native American local contact information, and nongovernmental Native American outreach; and (4) an archaeological pedestrian survey of the Project boundary.

The SSJVIC records search results indicated that there have been three previous cultural resources investigations conducted, and no archaeological resources were recorded within the Project area. The SSJVIC also reported that there were three previous cultural resources investigations conducted within a 0.5-mile radius of the surrounding area and 13 cultural resources recorded. An examination of historic topographic maps and aerial images indicated that the Project site has largely been used for agricultural purposes.

The NAHC's Sacred Lands File search was negative and did not identify sacred places within the Project area. Taylorred Archaeology contacted the listed Native American representatives on October 10, 2024. One response was received on October 29, 2024, from Samantha McCarty, Cultural Specialist II, of the Santa Rosa Rancheria Tachi Yokut Tribe. In her email, Samantha McCarty stated the Tribe is requesting the results of the SSJVIC and SLF search be shared with them, a curation agreement and burial treatment plan be in place prior to the start of construction, the Tribe to be retained for a cultural presentation to all construction crews prior to construction, and a tribal monitor and archaeological monitor be on site for all project ground disturbing activities. No other responses were received by representatives as of November 13, 2024.

No cultural resources were identified on the ground surface during the pedestrian survey.

Based on the results of this investigation, Taylorred Archaeology recommends the following:

- In the event that previously unidentified archaeological remains are encountered during development or ground-moving activities in the Project boundary, all work should be halted until a qualified archaeologist can identify the discovery and assess its significance. In the event of accidental discovery of unidentified archaeological remains during development or ground-moving activities in the Project site, all work shall be halted in the

immediate vicinity until a qualified archaeologist can identify the discovery and assess its significance.

- If human remains are uncovered during construction, the Tulare County Coroner is to be notified to investigate the remains and arrange proper treatment and disposition. If the remains are identified on the basis of archaeological context, age, cultural associations, or biological traits to be those of a Native American, California Health and Safety Code 7050.5 and PRC 5097.98 require that the coroner notify the NAHC within 24 hours of discovery. The NAHC will then identify the Most Likely Descendent who will be afforded an opportunity to make recommendations regarding the treatment and disposition of the remains.

A copy of this report will be provided to the SSJVIC for inclusion in the CHRIS database.

CONTENTS

1	INTRODUCTION	6
1.1	PROJECT DESCRIPTION AND LOCATION	6
1.2	REGULATORY SETTING	6
1.2.1	CALIFORNIA ENVIRONMENTAL QUALITY ACT	6
1.3	PROFESSIONAL QUALIFICATIONS	7
1.4	REPORT ORGANIZATION	11
2	PROJECT SETTING	12
2.1	NATURAL ENVIRONMENT	12
2.2	PREHISTORIC SETTING	13
2.3	ETHNOGRAPHY	14
2.4	HISTORIC SETTING.....	15
2.4.1	California History	15
2.4.2	Central California History.....	16
2.4.3	Local History.....	16
3	METHODS	19
3.1	RECORDS SEARCH	19
3.2	ARCHIVAL RESEARCH	19
3.3	NATIVE AMERICAN OUTREACH	19
3.4	ARCHAEOLOGICAL PEDESTRIAN SURVEY.....	20
4	RESULTS	21
4.1	RECORDS SEARCH	21
4.2	ARCHIVAL RESEARCH	23
4.3	NATIVE AMERICAN OUTREACH	23
4.4	ARCHAEOLOGICAL PEDESTRIAN SURVEY RESULTS.....	24
5	CONCLUSIONS AND RECOMMENDATIONS	28
6	REFERENCES.....	29

APPENDICIES

A	Personnel Qualifications
B	Records Search Results
C	Native American Outreach

FIGURES

Figure 1-1	Project vicinity in Kings County, California.	8
Figure 1-2	Project location on the Remnoy, CA 7.5-minute quadrangle.....	9
Figure 1-3	Aerial view of the Project boundary	10
Figure 2-1	Map of Tulare Lake with receding shoreline, 1854 to 1898. Red arrow shows approximate Project location (Lee 1898).	18
Figure 4-1	Southern portion of Project site, facing north.....	25
Figure 4-2	Central portion of Project site, facing north.....	25
Figure 4-3	Ground visibility in northern portion of Project site, facing east.	26
Figure 4-4	Survey coverage of Project site.	27

TABLES

Table 4-1	Previous Cultural Resources Studies within the Project Area	21
Table 4-2	Previous Cultural Resources Studies within 0.5-mile of the Project Area.....	22
Table 4-3	Previous Recorded Cultural Resources within 0.5-mile radius of the Project Boundary	22

1

INTRODUCTION

Taylored Archaeology performed a Phase I cultural resource assessment for the Copper Edge Tentative Subdivision Map Project (Project) in Kings County, California (Figure 1). As part of the development approval process, Kings County as the lead agency must comply with the California Environmental Quality Act (CEQA). The California Public Resources Code (PRC) 21000 (g) mandates that government agencies identify and mitigate the impacts of a project on the environment, including cultural resources.

1.1 PROJECT DESCRIPTION AND LOCATION

The Project proposes to construct a single-family residential development containing 556 lots on 79.28 acres and commercial development on 4.33 acres on an approximately 83-acre property. The Project proposes to construct these in five phases. A temporary 15.1-acre storm basin will be constructed in the center of the Project site before Phase 3 is constructed. The Project is currently in unincorporated Kings County and will be annexed into the City of Hanford. The Assessor's Parcel Numbers are 014-143-069 and 014-143-078.

The Project is located adjacent to the east of the City of Hanford on the northeast corner of 9 ¼ Avenue and Grangeville Boulevard. The proposed Project is within Section 19 of Township 18 South, Range 22 East, Mount Diablo Base Line and Meridian of the Remnoy, California 7.5-minute USGS quadrangle.

1.2 REGULATORY SETTING

In this report "cultural resources" are defined as prehistoric or historical archaeological sites as well as historical objects, buildings, or structures. In accordance with 36 Code of Federal Regulations (CFR) §60.4, "historical" in this report applies to cultural resources which are at least 50 years old. The significance or importance of a cultural resource is dependent upon whether the resource qualifies for inclusion at the local level in a local register of historical resources, at the state level in the California Register of Historical Resources (CRHR), or at the federal level in the National Register of Historic Places (NRHP). Cultural resources that are determined to be eligible for inclusion in the CRHR are called "historical resources" (California Code of Regulations [CCR] 15064.5[a]). Under this statute the determination of eligibility is partially based on the consideration of the criteria of significance as defined in 14 CCR 15064.5(a)(3). Cultural resources eligible for inclusion in the NRHP are deemed "historic properties".

1.2.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT

Pursuant to CEQA, a historical resource is a resource listed in, or determined to be eligible for listing in, the CRHR. Historical resources may include, but are not limited to, "any object, building,

structure, site, area, place, record, or manuscript which a lead agency determines to be historically or archaeologically significant” (PRC §5020.1[j]). In addition, a resource included in a local register of historical resources or identified as significant in a local survey conducted in accordance with the state guidelines are also considered historic resources under California Public Resources Code (PRC) Section 5020.1.

CEQA details appropriate measures for the evaluation and protection of cultural resources in §15064.5 of the CEQA Guidelines. According to CEQA guidelines §15064.5 (a)(3), criteria for listing on the CRHR includes the following:

- (A) Is associated with events that have made a significant contribution to the broad patterns of California’s history and cultural heritage.*
- (B) Is associated with the lives of persons important in our past.*
- (C) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.*
- (D) Has yielded, or may be likely to yield, information important in prehistory or history.*

According to CEQA guidelines §21074 (a)(1), criteria for tribal cultural resources includes the following:

- (1) Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:*
 - (A) included or determined to be eligible for inclusion in the California Register of Historical Resources.*
 - (B) included in a local register of historical resources as defined in subdivision (k) of Section 5020.1.*

Protection of cultural resources within California is additionally regulated by PRC §5097.5, which prohibits destruction, defacing, or removal of any historic or prehistoric cultural features on land under the jurisdiction of State or local authorities.

1.3 PROFESSIONAL QUALIFICATIONS

Archaeologist Consuelo Y. Sauls (M.A.), a Registered Professional Archaeologist (RPA 41591505), managed the assessment and authored this report for the Project. Ms. Sauls also conducted the records search and literature review, requested Sacred Lands File, and performed the pedestrian field survey of the Project site. Ms. Sauls meets the Secretary of the Interior’s Standards for Professional Qualifications in Archaeology. Statement of Qualifications for key personnel is provided in Appendix A.



Figure 1-1 Project vicinity in Kings County, California.

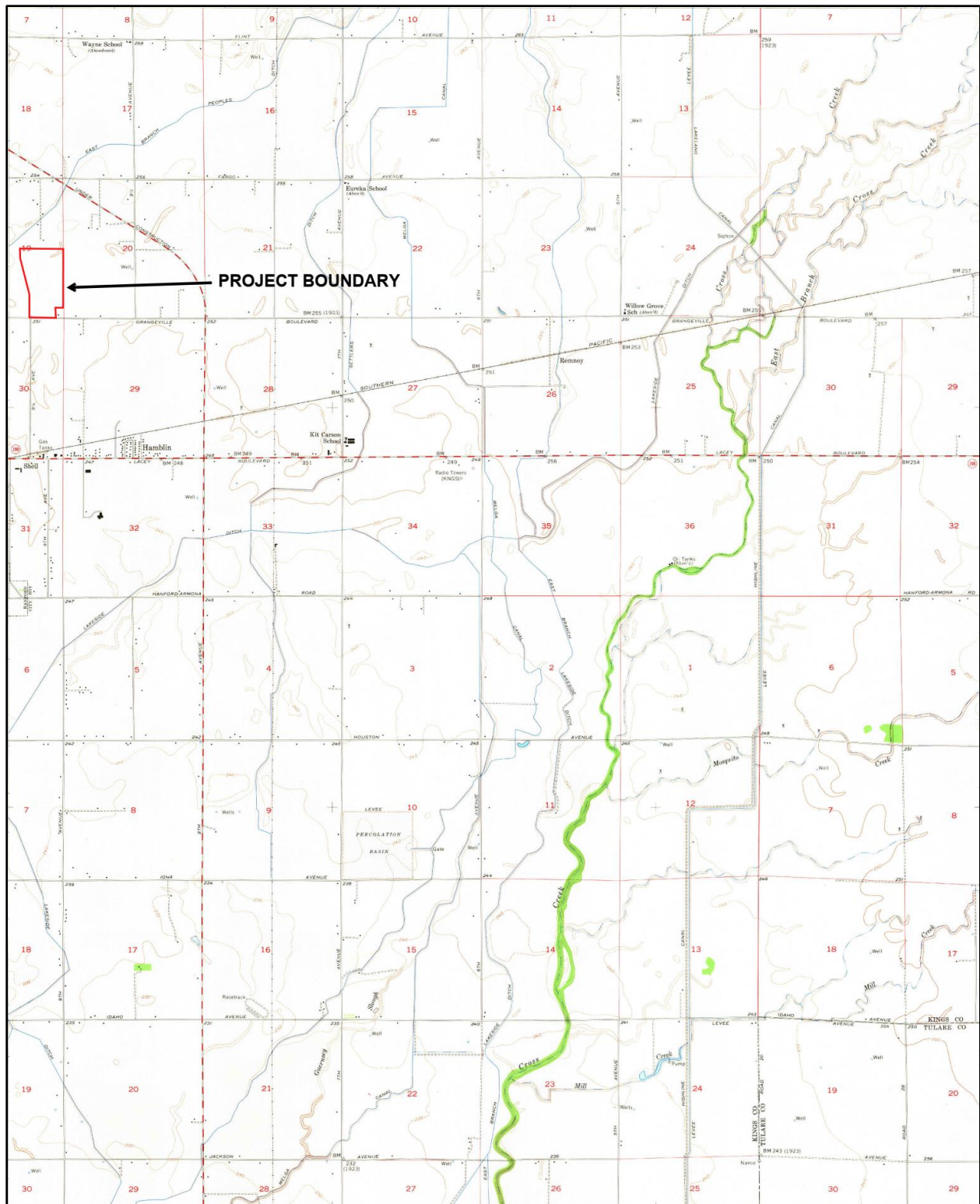


Figure 1-2 Project location on the Remnoy, CA 7.5-minute quadrangle.



Figure 1-3 Aerial view of the Project boundary

1.4 REPORT ORGANIZATION

This report documents the results of a cultural resource assessment of the proposed Project area. In order to assess potential Project impacts to archaeological and historical resources pursuant to CCR §15064.5, the following specific tasks were completed: (1) requesting a records search from the Southern San Joaquin Information Center (SSJVIC) of the California Historical Resources Information System (CHRIS), at California State University, Bakersfield; (2) requesting a Sacred Lands File Search and list of interested parties from the Native American Heritage Commission (NAHC) and initiating outreach to local Native American individuals and tribal representatives; (3) conducting an archaeological pedestrian survey, and (4) preparing this technical report.

Taylor Archaeology prepared this report following the California Office of Historic Preservation standards in the 1990 Archaeological Resources Management Report Recommended Contents and Format. Chapter 1 describes the introduction of the Project and its location, the state regulations and identifies the key personnel involved in this report. Chapter 2 is a literature review that summarizes the Project setting, including the natural, prehistoric ethnography, and historic background for the Project area and surrounding area. Chapter 3 details the methods used for cultural records searches, local Native American outreach, archaeological pedestrian survey, and built environment survey. Chapter 4 summarizes the results of the cultural resource investigation. Chapter 5 discusses the Project results and offers management recommendations. Chapter 6 is a bibliography of references cited within this report. The report also contains the following appendices: qualifications of key personnel (Appendix A), the CHRIS records search results (Appendix B), and Taylor Archaeology's nongovernmental Native American outreach (Appendix C).

2 PROJECT SETTING

2.1 NATURAL ENVIRONMENT

The Project site lies in the Central Valley of California, which is approximately 450 miles from north to south, and ranges in width east to west from 40 to 60 miles (Prothero 2017). The Central Valley is divided into two subunits, the Sacramento Valley in the north and the San Joaquin Valley in the south, which are each named after the primary rivers within each valley (Madden 2020). The Project is located approximately 250 feet above sea level on the open flat plains of the Southern San Joaquin Valley. Climate within the San Joaquin Valley is classified as a 'hot Mediterranean climate', with hot and dry summers, and cool damp winters characterized by periods of dense fog known as 'tule fog' (Prothero 2017).

The San Joaquin Valley is comprised of a structural trough created approximately 65 million years ago and is filled with nearly 6 miles of sediment (Bull 1964). The San Joaquin Valley ranges from Stockton and the San Joaquin-Sacramento River Delta in the north to Wheeler Ridge to the south, ranging nearly sixty miles wide at its widest (Zack 2017). It is split by late Pleistocene alluvial fans between the San Joaquin River hydrologic area in the north and the Tulare Lake Drainage Basin in the south (Rosenthal et al 2007). The Project site is located within the latter of the two hydrologic units. The Kaweah, Tule, Kern, and Kings rivers flowed into large inland lakes with no outflow except in high flood events, in which the lakes would flow from through the Fresno Slough into the San Joaquin River. The largest of these inland lakes was the Tulare Lake, which occupied a vast area of Tulare and Kings Counties and was the largest freshwater lake west of the Mississippi. These four tributary rivers accounted for more than 95 percent of water discharged into Tulare Lake, with the remaining five percent sourced from small drainages originating in the Coast Ranges to the west (Adams et al. 2015).

The valley floor of the region was largely dominated by marshlands, lakes, and annual grasslands. Historically, these habitats provided a lush environment for large animals, including various migratory birds and other waterfowl, grizzly bear (*Ursus arctos californicus*), tule elk (*Cervus* sp.), pronghorn (*Antilocapra americana*), mule deer (*Odocoileus hemionus*), black bear (*Ursus americanus*), and mountain lion (*Puma concolor*) (Preston 1981). Native trees and plants observed in the Project vicinity include various blue, live, and white oaks (*Quercus* sp.), cottonwood (*Populus aegiros*), and willow (*Salix* sp.). The introduction of agriculture to the region resulted in large animals being forced out of their habitat. Common land mammals now include valley coyote (*Canis latrans*), bobcat (*Lynx rufus*), gray fox, kit fox (*Vulpes macrotis*), and rabbits (Leporidae). Rivers and lakes throughout the valley provide habitat for freshwater fish, including rainbow trout (*Oncorhynchus mykiss*), Sacramento sucker (*Catostomidae* sp.), and Sacramento perch (*Archoplites interruptus*) (Preston 1981).

2.2 PREHISTORIC SETTING

Archaeologists develop models of prehistoric resource chronologies and descriptions of lifestyles based on data collected at archaeological sites they investigate to better understand the past. Models of prehistoric life patterns are developed from both archaeological and ethnographic research. Archaeological studies in the San Joaquin Valley began in the early 1900s with several archaeological investigations (Rosenthal et al. 2007). The Southern San Joaquin Valley is one of the least understood areas within California due to a lack of well-grounded chronologies for large segments of the valley (Rosenthal et al. 2007). This is largely due to the valley floor being filled with thick alluvial deposits, and from human activity largely disturbing much of the valley floor due to a century and a half of agricultural use (Dillon 2002; Siefken 1999). Mound sites may have occurred as frequently as one every two or three miles along major waterways but studying such mounded occupations sites is difficult as most surface sites have been destroyed (Schenck and Dawson 1929). Much of the early to middle Holocene archaeological sites may be buried as deep as 10 meters due to millennia of erosion and alluvial deposits from the western Sierras (Moratto 1984).

Mass agricultural development has heavily disturbed and changed the landscape of the Southern San Joaquin Valley, from the draining of marshes and the vanishing of the extensive Tulare Lake, to grading nearly the entire valley for agricultural operations (Garone 2011). These activities have impacted or scattered much of the shallow surface deposits and mounds throughout the valley (Rosenthal et al 2007). Some researchers have suggested that potentially as much as 90 percent of all Central California archaeological sites have been destroyed from these activities (Riddell 2002).

The cultural traits and chronologies which are summarized below are largely based upon information discussed in multiple sources, including Bennyhoff and Fredrickson (1994) and Fredrickson (1973, 1974), Garfinkel (2015), McGuire and Garfinkel (1980), Moratto (1984), and Rosenthal et al. (2007). The most recent comprehensive approach to compiling a chronology of the Southern San Joaquin Valley prehistory is by Garfinkel in 2015, which builds off Rosenthal's 2007 previous work. Both Garfinkel's and Rosenthal's chronologies are calculated in years B.C. In the interest of maintaining cohesiveness with modern anthropological research, the dates of these chronologies have been adapted into years before present (B.P.).

The Paleo-Indian Period (13,500-10,600 cal B.P.) was largely represented by ephemeral lake sites which were characterized by atlatl and spear projectile points. Around 14,000 years ago, California was largely a cooler and wetter place, but with the retreat of continental Pleistocene glaciers, California largely experienced a warming and drying period. Lakes filled with glacial meltwater were located in the valley floor and used by populations of now extinct large game animals. A few prehistoric sites were discovered near the southwestern shore of Tulare Lake (Garfinkel 2015). Foragers appear to have operated in small groups which migrated on a regular basis.

During the Lower Archaic Period (10,500-7450 cal B.P.), climate change created a largely different environment which led to the creation of larger alluvial fans and flood plains. Most of the

archaeological records of the prior period wound up being buried by geological processes. During this time, cultural patterns appear to have emerged between the foothill and valley populations of the local people. The foothill sites were often categorized by dense flaked and ground stone assemblages, while the valley sites were instead characterized by a predominance of crescents and stemmed projectile points. Occupation within the area is represented mostly by isolated discoveries, and along the former shoreline of Tulare Lake finds are typically characterized by chipped stone crescents, stemmed points, and other distinctive flaked stone artifacts (Rosenthal et al. 2007). Variations in consumption patterns emerged as well, with the valley sites more marked by consumption of waterfowl, mussels, and freshwater fish, while the foothills sites saw an increase in nuts, seeds, and a more narrowly focused diet than the valley sites.

The Middle Archaic (7450-2500 cal B.P.) saw an increase in semi-permanent villages along river and creek settings, with more permanent sites located along lakes with a more stable supply of water and wildlife. Due to the warmer and drier weather of this period, many lakes within the valley dramatically reduced in size, while some vanished completely (Garone 2011). Cultural patterns during this time saw an increase in stone tools, while a growth in shell beads, ornaments, and obsidian evidence an extensive and ever-growing long-distance trade network. Little is known of cultural patterns in the valley during the Upper Archaic (2500-850 B.P.), but large village structures appeared to be more common around local rivers. An overall reduction of projectile point size suggests changing bow and arrow technologies. Finally, the Emergent Period (850 cal B.P. - Historic Era) was generally marked by an ever-increasing specialization in tools, and the bow and arrow generally replaced the dominance of the dart and atlatl. Cultural traditions ancestral to those recorded during ethnographic research in the early 1900s are identifiable.

2.3 ETHNOGRAPHY

The Project area is in the Southern Valley Yokuts ethnographic territory of the San Joaquin Valley. The Yokuts were generally divided into three major groups, the Northern Valley Yokuts, the Southern Valley Yokuts, and the Foothill Yokuts. The Yokuts are a sub-group of the Penutian language that covers much of coastal and central California and Oregon (Callaghan 1958). The Yokuts language contained multiple dialects spoken throughout the region, though many of them were mutually understandable (Merriam 1904).

The Yokuts have been extensively researched and recorded by ethnographers, including Powers (1877), Kroeber (1925), Gifford and Schenck (1926, 1929), Gayton (1945), Driver (1937), Harrington (1957), Latta (1977), and Wallace (1978). Much of the research from these ethnographers focuses on the central Yokuts tribes due to the northernmost tribes being impacted by Euro-Americans during the California Gold Rush of the mid 1800s, and by the southernmost tribes often being removed and relocated by the Spanish to various Bay Area or coastal missions. The central Yokuts tribes, and especially the western Sierra Nevada foothill tribes, were the most intact at the time of ethnographic study.

The most detailed ethnographic information gathered regarding Native American group territories in Central California is located within maps prepared by Kroeber. Based upon Kroeber's

map of Southern and Central Yokuts (1925: Plate 47), the Project area is within the Nutunutu Yokuts territory, who occupied the southern bank of the Kings River in modern-day Kings County (Kroeber 1925; Latta 1977). The closest village in this area was *Chiao* which was located along the Kings River approximately 7 miles northwest of the Project site (Kroeber 1925).

Primary Yokuts villages were typically located along lakeshores and major stream courses, with scattered secondary or temporary camps and settlements located near gathering areas in the foothills. Yokuts were organized into groups originally designated as tribelets by Kroeber, with one or more linked villages and smaller settlements within a territory (Kroeber 1925).

Designation of these units as ‘tribelets’ is often viewed as pejorative by many Native Americans, and for the remainder of this report will be referred to as ‘local tribes’ instead. Each local tribe was a land-owning group that was organized around a central village and shared common territory and ancestry. Most local tribe populations ranged from 150 to 500 people (Kroeber 1925). These local tribes were often led by a chief, who was often advised by a variety of assistants including the winatum, who served as a messenger and assistant chief (Gayton 1945). Early studies by Kroeber (1925), Gifford and Schenck (1926), and Gayton (1945) concluded that social and political authority within local tribes was derived from male lineage and patriarchy. However, more recent reexaminations (Dick-Bissonnette 1998) argue that this assumption of patriarchal organization was based on male bias by early 20th century researchers, and instead Yokuts sociopolitical authority was matriarchal in nature and centered around matrilineal use-rights and women’s work groups.

Due to the abundance of natural resources within the greater Tulare Lake area, the Yokuts maintained some of the largest populations in North America west of the continental divide (Cook 1955a).

2.4 HISTORIC SETTING

2.4.1 California History

European contact in modern-day California first occurred in 1542 with the arrival of a Spanish expedition lead by Juan Rodríguez Cabrillo into San Diego Bay (Engstrand 1997). Expeditions along the California coast continued throughout the sixteenth century and primarily focused on finding favorable harbors for further expansion and trade across the Pacific. However, rocky shorelines, unfavorable currents, and wind conditions made traveling north from New Spain to the upper California coast a difficult and time-consuming journey (Eifler 2017). The topography of California, with high mountains, large deserts, and few natural harbors lead to European expansion into California only starting in the 1760s. As British and Russian expansion through fur trading encroached on California from the north, Spain established a system of presidios, pueblos, and missions along the California coast to defend its claim, starting with Mission San Diego de Alcalá in 1769 (Engstrand 1997).

2.4.2 Central California History

The San Joaquin Valley did not experience contact with Europeans until the late 1700s (Starr 2007). Life at the California missions was hard and brutal for Native Americans, with many dying of disease, poor conditions, and many fleeing to areas not under direct Spanish control (Jackson and Castillo 1995). The earliest exploration of the San Joaquin Valley by Europeans was likely by the Spaniards when in the fall of 1772 a group known as the Catalanian Volunteers entered into the valley through Tejon Pass in search of deserters from the Southern California missions (Zack 2017). However, the group only made it as far north as Buena Vista Lake in modern day Kern County before turning around due to the extensive swamps. Additional excursions to the valley were for exploration such as those led by Lieutenant Barriel Moraga in 1806, but also to find sites for suitable mission sites and to track down Native Americans fleeing the coastal missions (Cook 1958).

Subsequent expeditions were also sent to pursue outlaws from the coast who would often flee to the valley for safety. One of the subsequent explorations was an expedition in 1814 to 1815 with Sargent Juan Ortega and Father Juan Cabot, who left the Mission San Miguel with a company of approximately 30 Spanish soldiers and explored the San Joaquin Valley (Smith 2004). This expedition passed through the Kaweah Delta and modern-day Visalia and made a recommendation to establish a mission near modern-day Visalia. However, with European contact also came European diseases. Malaria and other new diseases were brought by Europeans, and in 1833 an epidemic of unknown origin traveled throughout the Central Valley. Some estimates place the Native American mortality of the epidemic as high as 75 percent (Cook 1955b). Combined with the rapid expansion of Americans into California in 1848 during the Gold Rush, Native American populations within the valley never fully recovered (Eifler 2017).

Initial settlement within the valley by Europeans in the 1830s was largely either by trappers or horse thieves (Clough and Secrest 1984). In fact, horse and other livestock theft was so rampant that ranching operations on the Rancho Laguna de Tache by the Kings River could not be properly established (Cook 1962). With the end of the Mexican American War and the beginning of the gold rush in 1848, the San Joaquin Valley became more populated with ranchers and prospectors. Most prospectors traveled by sea to San Francisco and used rivers ranging from the Sacramento River to the San Joaquin River to access the California interior (Eifler 2017). Most areas south of the San Joaquin River were less settled simply because those rivers did not connect to the San Francisco Bay area except in wet flood years. By 1850, California became a state, Tulare County was established in 1853, and Kings County was formed out of the western half of Tulare County in 1893.

2.4.3 Local History

The arrival of rail lines in the late 1800s brought an increase in agriculture and farms that clashed with existing ranching operations in the local area. One such conflict was the Mussel Slough Tragedy of 1880, in which seven locals died in a fight over land use between ranchers and the Southern Pacific Railroad (Clough and Secrest 1984). Escalating conflicts and livestock disputes between ranchers and farmers lead to the “No Fence Law” in 1874, which forced ranchers to pay

for crop and property damage caused by their cattle (Ludeke 1980). With the passage of this law and the expansion of irrigation systems, predominant land use in the 1870s switched from grazing to farming (Mitchell 1974). This led to the beginning of the vast change of the San Joaquin Valley from native vegetation and grasslands to irrigated crops (Varner and Stuart 1975). During this time, small farming towns were established throughout the valley floor (Clough and Seacrest 1984).

Because water rights within California originally arose from the first come first serve policy of the Gold Rush era, diverting surface water to farms became big business, but a convoluted mess of customs, traditions, and conflicting claims (Zack 2017). To solve this mess, the Wright Act of 1887 was passed that allowed residents to petition a local county board of supervisors to create irrigation districts that had the power to issue bonds, and tax land within the district boundaries to pay for the creation and maintenance of canals and ditches for irrigation purposes.

At the same time, an important step forward was made in ditch-digging technology that allowed irrigation systems to be built at a faster pace. From the 1840s to 1890s, farm ditches and canals were largely constructed using buckboards and slip-scoops, which involved the use of a board pulled by horses in an upright position to level ground (Bulls 2010). Between 1883 and 1885, Scottish immigrant James Porteous had moved to Fresno and made significant improvements to the buckboard style scraper that allowed the new scraper to be pulled by two horses and scrape and move soil while dumping it at a controlled depth. This new design was patented and sold as the “Fresno Scraper”, which led to an explosion of ditch digging efforts within the San Joaquin Valley (Zack 2017).

The cumulative effect of this explosion of water diversion from the Kings, Kern, Kaweah, and Tule Rivers, which supplied 95 percent of the water, had a devastating effect on Tulare Lake (Adams et al. 2015). Between 1876 and 1885, the northern shoreline of Tulare Lake near the Lower Kings River had receded southwards by five miles (Baker 1876; Hammond 1885). By 1898, the lake had completely dried up (Figure 2-1).



Figure 2-1 Map of Tulare Lake with receding shoreline, 1854 to 1898. Red arrow shows approximate Project location (Lee 1898).

The former lakebed was turned into agricultural lands, with water provided by the new canals and ditches. The destruction of the lake was another major impact to the Native American populations of the region. Diversion of the water from the former lakebed was never fully permanent, however, with heavy rains leading to the reemergence of Tulare Lake in 1937, 1952, 1969, 1983, 1997, and most recently in 2023 (Garrison et al. 2023).

Hanford was first formed as a railroad stop in 1877 when the Southern Pacific Railway laid a new cross-valley line connecting Goshen near Visalia to Coalinga on the west side of the valley (Hanford 2024). Hanford quickly grew into the trading center of the local area, incorporated in 1891 after a few setbacks with local fires, and became the County Seat when Kings County was formed in 1893. Tensions with the Southern Pacific Railroad's monopoly on shipping and transportation lead to Hanford fighting for, and in 1897 receiving, a new competing north to south line of the San Francisco and San Joaquin Valley Railroad connecting Fresno to Bakersfield via Hanford (Menefee and Dodge 1913). The Southern Pacific Railway later formed into the Union Pacific Railroad, and the San Francisco and San Joaquin Valley Railroad later formed into the Burlington Northern Santa Fe Railroad.

3 METHODS

3.1 RECORDS SEARCH

On October 4, 2024, Taylored Archaeology requested a cultural resource records search from the SSJVIC of the CHRIS at California State University in Bakersfield, California. The purpose of this request was to identify any prehistoric or historical resources on or near the Project site that had been previously recorded within the Project boundary and a 0.5-mile radius of the Project area; and review of prior cultural studies completed in or near the Project boundary including recorded cultural resources such as historic and prehistoric archaeological sites, lithic debitage, buildings, or canals. SSJVIC staff researched historical United States Geological Survey (USGS) topographic maps, reports of previous cultural resource investigations, archaeological site and survey base maps, cultural resource records (DPR forms) as well as listings of the Historic Properties Directory of the Office of Historic Preservation, General Land Office Maps, Archaeological Resources Directory, and the California Inventory of Historic Resources (Appendix B).

3.2 ARCHIVAL RESEARCH

Archival research was conducted to investigate the historical background for any potential historical natural water sources, potential historic structures, buildings and historical deposits that may exist, and land use within the Project boundary. Historical maps, historical aerial photographs, historical USGS topographic maps, Google Earth aerial photographs, Google Street View photos, books, scholarly articles, and other records were used to better understand the prehistory and history of the Project area. The results of this research are presented in Chapter 4.

3.3 NATIVE AMERICAN OUTREACH

On October 4, 2024, Taylored Archaeology sent a request to the Native American Heritage Commission (NAHC) for a Sacred Lands File (SLF) search, to identify any known places of religious, sacred activity or traditional use or gathering areas are present in or near the Project area. The NAHC responded on October 10, 2024, with a letter including contact information for local Native American tribal representatives who may have knowledge or interest in sharing information of resources in the Project area and surrounding area. Each Native American representative listed was sent a nongovernmental outreach letter and a map notifying them of the Project and asking if they had any knowledge of the Project area or surrounding vicinity. Follow-up communication was performed via email as appropriate. The SLF results are in Chapter 4.

3.4 ARCHAEOLOGICAL PEDESTRIAN SURVEY

A pedestrian survey was conducted by Consuelo Sauls on October 19, 2024, on the entire Project site. The Project site consists of a walnut orchard in the northern half and field crops in the southern portion of the site had been plowed at the time of the survey, thus exposing bare soil in most of the project site. Ms. Sauls walked a 10-meter parallel transects within the project boundary, oriented north to south. The transects were paced and oriented by map and landmarks within the southern half of the site and followed orchards rows in the northern half of the site. The whole area in the Project boundary was accessible and surveyed to identify any archaeological deposits that may be present on the ground surface. Ms. Sauls used a plan map, visible landmarks, and Gaia GPS application for navigation to locate and survey the Project area. She also photographed the survey area using an iPhone 11 Pro digital camera. Ms. Sauls recorded her observations on a Survey Field Record.

4 RESULTS

4.1 RECORDS SEARCH

The SSJVIC provided the records search results in a letter dated October 14, 2024 (Appendix B). According to the search results, three prior cultural resources studies were conducted within the Project area (Table 4-1). KI-00103 is adjacent to the southern Project boundary along Grangeville Boulevard. No prehistoric resources were encountered during its pedestrian survey. KI-00238 and KI-00269 are archaeological desktop reviews with no associated surveys. In addition, three previous cultural resources studies were conducted within a 0.5-mile radius of the Project site as depicted in Table 4-2. None of these studies intersected the Project site.

The results of the records search indicate that no cultural resources were previously recorded within the Project boundary and 13 cultural resources were recorded within the 0.5-mile search radius (Table 4-3). The 13 cultural resources are all historic-era, and do not overlap the Project boundary.

**Table 4-1
Previous Cultural Resources Studies within the Project Area**

Report Number	Author(s)	Date	Report Title	Study
KI-00103	Wendy M. Nettles and Kevin L. Palmer	2001	Historic Property Survey Report for the Grangeville Boulevard Widening and Overlay Project 10th Avenue to State Route 43 Hanford, California	Archaeological and Built Environment Filed Surveys
KI-00103A			Negative Archaeological Survey Report for the Grangeville Boulevard Widening and Overlay Project 10th Avenue to State Route 43, Hanford, California	
KI-00103B			Historical Architectural Survey Report for the Grangeville Boulevard Widening and Overlay Project 10th Avenue to State Route 43, Hanford, California	
KI-00238	Jack Meyer, D. Craig Young and Jeffrey S. Rosenthal	2010	Volume I: A Geoarchaeological Overview and Assessment of Caltrans Districts 6 and 9	Archaeological Desktop Review
KI-00269	Robert A. Schiffman	2015	Archaeological Evaluation of Areas Selected for Possible Nuclear Power Plants by the LADWP	Archaeological Desktop Review

Table 4-2
Previous Cultural Resources Studies within 0.5-mile of the Project Area

Report Number	Author(s)	Date	Report Title	Study
KI-00093	Christopher Ryan	2000	Supplemental Archaeological Survey for the Laguna Irrigation District Transmission Line Improvement Project, Fresno and Kings Counties, California	Supplemental Archaeological Survey of Utility Lines
KI-00100	Keith R. Brown and Allen G. Pastron	2000	Historical and Cultural Resource Assessment Update Existing Telecommunications Facility Site No. CV-503-01 Glendale Avenue Kings County, California	Historical and Cultural Resource Desktop Review
KI-00268	Alexandra Greenwald	2011	Archaeological Survey Technical Report for the California High Speed Train-Fresno to Bakersfield Section	Archaeological Field Survey and Extended Phase I Survey High-Speed Rail

Table 4-3
Previous Recorded Cultural Resources within 0.5-mile radius of the Project Boundary

Resource Number	Age Association	Resource Type	Year Recorded	Resource Within Project Boundary
P-16-000105	Historic	Building; Single- family house	2001 by Applied EarthWorks	No
P-16-000106	Historic	Building; Single-family house	2001 by Applied EarthWorks	No
P-16-000107	Historic	Building; Single-family house	2001 by Applied EarthWorks	No
P-16-000108	Historic	Building; Single-family house	2001 by Applied EarthWorks	No
P-16-000109	Historic	Building; Single-family house	2001 by Applied EarthWorks	No
P-16-000110	Historic	Building; Single-family house	2001 by Applied EarthWorks	No
P-16-000111	Historic	Building; Single-family house	2001 by Applied EarthWorks	No
P-16-000112	Historic	Building; Single-family house	2001 by Applied EarthWorks	No
P-16-000113	Historic	Building; Single-family house	2001 by Applied EarthWorks	No
P-16-000114	Historic	Building; Single-family house	2001 by Applied EarthWorks	No
P-16-000115	Historic	Building; Single-family house	2001 by Applied EarthWorks	No
P-16-000116	Historic	Building; two storage buildings	2001 by Applied EarthWorks	No

Resource Number	Age Association	Resource Type	Year Recorded	Resource Within Project Boundary
P-16-000246	Historic	Building; Canal	2019 by ASM Affiliates, Inc.	No

4.2 ARCHIVAL RESEARCH

The Project site and the surrounding area were mostly agricultural use. Historical map coverage of the Project site dates to 1927. A review of the 1927 USGS topographic map depicts the site with no structures and bound to the south by Grangeville Boulevard in the same alignment as present-day. A 1954 USGS topo map depicts the site in a similar manner, with a realignment of State Route 43 noted as under construction. Other than increased development from the Hanford urban area to the west of the site, no changes are noted between 1954 to 2021 (NETROnline 2024). Historic aerial photograph coverage of the Project site dates to 1957. A review of historic aerial photographs shows the Project site utilized for row crops from at least 1956 to 2012 (NETROnline 2024, Google 2024). Starting in 2012 the Project site appears similar to its current configuration with the northern portion of the Project site utilized as an orchard (Google 2024).

4.3 NATIVE AMERICAN OUTREACH

On October 10, 2024, the NAHC responded to Taylored Archaeology's request, and stated that its Sacred Lands File results were negative for the presence of cultural resources within the Project area (Appendix C). The NAHC recommended to contact the Native American tribal representatives culturally affiliated with the Project area on a list they provided.

The following Native American organizations/individuals were contacted from the list provided by NAHC below:

1. Chairperson Delia Dominguez of the Kitanemuk & Yowlumne Tejon Indians
2. Cultural Specialist II Samantha McCarty of the Santa Rosa Rancheria Tachi Yokut Tribe
3. THPO Shana Powers of the Santa Rosa Rancheria Tachi Yokut Tribe
4. Cultural Specialist I Nichole Escalon of the Santa Rosa Rancheria Tachi Yokut Tribe
5. Cultural Resource Director Bob Pennell of the Table Mountain Rancheria
6. Chairperson Michelle Heredia-Cordova of the Table Mountain Rancheria
7. Tribal Archaeologist Joey Garfield of the Tule River Indian Tribe
8. Environmental Department Director Kerri Vera of the Tule River Tribe
9. Chairperson Neil Peyron of the Tule River Indian Tribe
10. Chairperson Kenneth Woodrow of the Wuksachi Indian Tribe/Eshom Valley Band

According to prior communication with the Santa Rosa Rancheria, Tribal Historic Preservation Officer (THPO) Shana Powers is no longer with the Santa Rosa Rancheria Tachi Yokut Tribe and Nichole Escalon of the Santa Rosa Rancheria Tachi Tribe is now THPO.

The outreach letters were sent via email on October 28, 2024, to all the Native American representatives on the contact list. The letters included a description of the proposed Project and

a location map. Follow-up emails were sent on November 7, 2024. One response was received on October 29, 2024, from Samantha McCarty, Cultural Specialist II, of the Santa Rosa Rancheria Tachi Yokut Tribe. In her email, Samantha McCarty asked for the name and contact information of the lead agency. On October 29, 2024, archaeologist Consuelo Sauls provided Samantha McCarty the contact information for DR Mata Consulting, the project manager. As a follow-up to a phone call between Samantha McCarty and Darlene Mata, Samantha sent an email to Taylored Archaeology, stating the Tribe is requesting the results of the SSJVIC and SLF search be shared with them, a curation agreement and burial treatment plan be in place prior to the start of construction, the Tribe to be retained for a cultural presentation to all construction crews prior to construction, and a tribal monitor and archaeological monitor be on site for all project ground disturbing activities. As of November 13, 2024, Taylored Archaeology has not received any additional responses to the Native American outreach letters or emails.

4.4 ARCHAEOLOGICAL PEDESTRIAN SURVEY RESULTS

The results of the pedestrian survey indicate that the Project boundary consists of agricultural fields with no noted development (Figures 4-1 and 4-2). The Project site consists of an orchard in the northern half and tilled field in the southern half. Ground surface visibility was generally excellent (95 to 100 percent), though small portions of the ground surface were obscured by grass and weeds (Figure 4-3). Rodent burrows and any related soil piles were closely examined for lithic scatters and for indications of buried deposits.

No prehistoric or historic archaeological resources were identified during the pedestrian survey. The natural topography of the area has been altered by historical and modern agricultural practices and much of the land on the Project site has been graded and plowed, which has caused additional disturbance to the soil. While past agricultural activities may have potentially destroyed or obscured ground surface evidence of archaeological resources within the Project boundary, intact archaeological resources related to prior occupation of the area may potentially exist below the ground surface.



Figure 4-1 Southern portion of Project site, facing north.



Figure 4-2 Central portion of Project site, facing north.



Figure 4-3 Ground visibility in northern portion of Project site, facing east.

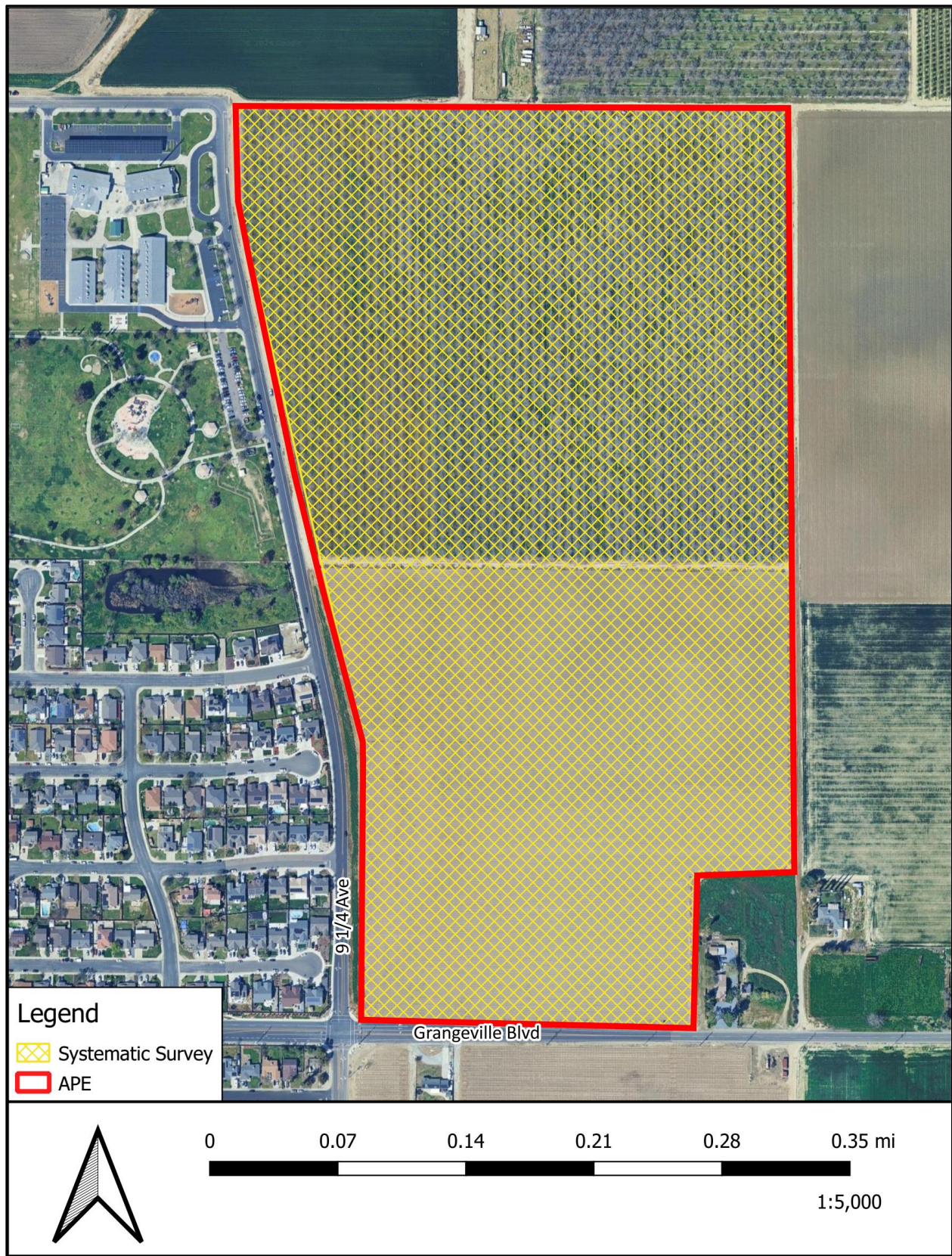


Figure 4-4 Survey coverage of Project site.

CONCLUSIONS AND RECOMMENDATIONS

Taylorred Archaeology performed a Phase I Cultural Resources Assessment for the Copper Ridge Tentative Subdivision Maps Project in Kings County, California. The SSJVIC records search results indicated that there have been three previous cultural resources investigations conducted within, and no cultural resources were recorded within, the Project area. The SSJVIC also reported that there were three previous cultural resources investigations conducted within a 0.5-mile radius of the Project site and 13 cultural resources previously recorded within a 0.5-mile radius. An examination of historic topographic maps and aerial images indicated that the Project site has largely been used for agricultural purposes. Taylorred Archaeology's pedestrian survey of the Project boundary did not reveal any prehistoric or historic cultural resources.

The NAHC's SLF search results were negative, and the NAHC recommended contacting local Native American representatives. Taylorred Archaeology contacted the listed Native American representatives on October 10, 2024. One response was received on October 29, 2024, from Samantha McCarty, Cultural Specialist II, of the Santa Rosa Rancheria Tachi Yokut Tribe. In her email, Samantha McCarty stated the Tribe is requesting the results of the SSJVIC and SLF search be shared with them, a curation agreement and burial treatment plan be in place prior to the start of construction, the Tribe to be retained for a cultural presentation to all construction crews prior to construction, and a tribal monitor and archaeological monitor be on site for all project ground disturbing activities. No other responses were received from Native American representatives as of November 13, 2024.

To maintain consistency with state statutes and regulations regarding cultural resources, Taylorred Archaeology advises the following:

- In the event of accidental discovery of unidentified archaeological remains during development or ground disturbing activities in the Project area, all work shall be halted in immediate vicinity (within a 100-foot radius) until a qualified archaeologist can identify the discovery and assess its significance.
- If human remains are uncovered during construction, work shall be halted, and the Kings County Coroner is to be notified to investigate the remains and arrange proper treatment and disposition. If the remains are identified on the basis of archaeological context, age, cultural associations, or biological traits to be those of a Native American, California Health and Safety Code 7050.5 and California Public Resources Code 5097.98 require that the coroner notify the Native American Heritage Commission (NAHC) within 24 hours of discovery. The NAHC will then identify the Most Likely Descendent who will make recommendations regarding the treatment and disposition of the remains.

6 REFERENCES

- Adams, Kenneth D., Robert M. Negrini, Edward R. Cook, and Seshadri Rajagopal.
2015 Annually resolved late Holocene paleohydrology of the southern Sierra Nevada and Tulare Lake, California. *Water Resources Research* 51(12):9708-9724.
- Baker, P.Y.
1876 *Map of Tulare County, California*. Unknown Publisher. David Rumsey Map Collection. <https://www.davidrumsey.com/luna/servlet/detail/RUMSEY~8~1~205302~3002357:Map-Of-Tulare-County-California>, accessed October 8, 2023.
- Bennyhoff, James, and David A. Fredrickson.
1994 *Toward a New Taxonomic Framework for Central California Archaeology, edited by Richard E. Hughes*. Number 52, Contributions of the University of California Archaeological Research Facility, Berkley, California.
- Bull, William B.
1964 Geomorphology of Segmented Alluvial Fans in Western Fresno County, California. *Geological Survey Professional Paper 352-E*. United States Government Printing Office, Washington, D.C.
- Bulls, Diana.
2010 The Fresno Scraper: A Mechanical Engineering Marvel. *Kings River Life Magazine*. August 14.
- Callaghan, Catherine A.
1958 California Penutian: History and Bibliography. *International Journal of American Linguistics*. 24(3):189-194.
- Clough, Charles W. and William B. Secrest, Jr.
1984 *Fresno County The Pioneer Years: From the Beginnings to 1900*. Panorama West Publishing, Fresno, California.
- Cook, Sherburne F.
1955a *The Aboriginal Population of the San Joaquin Valley, California*. *Anthropological Records* 16:31–80. University of California, Berkeley.
1955b *The Epidemic of 1830-1833 In California and Oregon*. University of California Publications in American Archaeology and Ethnology 43(3):303-326. University of California, Berkeley.

- 1958 The Project Gutenberg eBook, *Colonial Expeditions to the Interior of California Central Valley, 1800-1820*
- 1962 *Expeditions to the Interior of California: Central Valley, 1820-1840*. Anthropological Records 20(5):151-212.
- Dick-Bissonnette, Linda E.
- 1998 Gender and Authority among the Yokoch, Mono, and Miwok of Central California. *Journal of Anthropological Research* 54(1):49-72.
- Dillon, Brian D.
- 2002 California Paleo-Indians: Lack of Evidence, or Evidence of a Lack? In *Essays in California Archaeology: A Memorial to Franklin Fenenga*, edited by William J. Wallace and Francis A. Riddell, pp. 110–128. Contributions of the University of California Archaeological Research Facility No. 60. Berkeley.
- Driver, Harold E.
- 1937 Cultural Elements Distribution: VI, Southern Sierra Nevada. *University of California Anthropological Records* 1(2):53–154.
- Eifler, Mark A.
- 2017 *The California Gold Rush: The Stampede that Changed the World*. Routledge Taylor & Francis Group Press, Las Vegas.
- Engstrand, Iris H.W.
- 1997 Seekers of the "Northern Mystery": European Exploration of California and the Pacific. *California History*, 76(2/3):78–110.
- Fredrickson, David A.
- 1973 Early Cultures of the North Coast Ranges, California. Ph.D. dissertation. Department of Anthropology, University of California, Davis.
- 1974 Cultural Diversity in Early Central California: A View from the North Coast Ranges. *Journal of California Anthropology* 1(1):41-54.
- Hammond, William.
- 1885 *Detail Irrigation Map, Lemoore and Hanford Sheet*. California Department of Engineering. David Rumsey Map Collection.
<https://www.davidrumsey.com/luna/servlet/detail/RUMSEY~8~1~207669~3003414:Lemoore-and-Hanford-Sheet--Detail-I>, accessed November 2, 2024.
- Hanford, City of
- 2024 "History" <https://www.ci.hanford.ca.us/1290/History>, accessed November 13, 2024.

Garfinkel, Alan P.

- 2015 Archaeological Background and Cultural Sequence for The San Joaquin, Central California. Electronic document, <https://www.academia.edu/14721089/ArchaeologicalBackgroundfortheSanJoaquinValleyCentralCalifornia>, accessed November 2, 2024. Academia.edu

Garrison, Jessica, Ian James, Susanne Rust, and Aida Ylanan.

- 2023 *How powerful land barons shaped the epic floods in California's heartland*. Los Angeles Times. September 28, 2023. <https://www.latimes.com/environment/story/2023-09-28/central-valley-land-barons-tulare-lake-basin-kings-county-flooding-water-farms-boswell>, accessed November 2, 2024.

Garone, Philip

- 2011 *The Fall and Rise of the Wetlands of California's Great Central Valley*. University of the Press, Berkeley.

Gayton, Anna H.

- 1945 Yokuts and Western Mono Social Organization. *American Anthropologist* 47(3):409–426.

Gifford, E.W., and W. Egbert Schenck

- 1926 Archaeology of the Southern San Joaquin Valley, California. *Publications in American Archaeology and Ethnology* 23(1).
- 1929 Archaeology of the Northern San Joaquin Valley. *Publications in American Archaeology and Ethnology* 25(4).

Google Earth.

- 2024 Google Earth Pro Software. Accessed November 2, 2024.

Harrington, Mark R.

- 1957 *A Pinto Site at Little Lake, California*. No. 17. Southwest Museum.

Jackson, Robert H. and Edward Castillo

- 1995 *Indians, Franciscans, and Spanish Colonization: The Impacts of the Mission System on California Indians*. University of New Mexico Press, Albuquerque, New Mexico.

Kroeber, Alfred L.

- 1925 *Handbook of California Indians*. Bureau of American Ethnology Bulletin 78, Washington, D.C.

Latta, Frank F.

- 1977 *Handbook of Yokuts Indians*. Bear State Books, Santa Cruz, California.

Lee, Daryl.

- 1898 Tulare Lake Dried Up: Disappearance of the Largest Body of Fresh Water in California. *The San Francisco Call*. 14 August:1. San Francisco, California.
<https://cdnc.ucr.edu/?a=d&d=SFC18980814.2.138.8&e>, Accessed November 2, 2024.

Ludeke, John.

- 1980 The No Fence Law of 1874: Victor for San Joaquin Valley Farmers. *California History* 2(59):98-115. University of California Press, Berkeley, California.

Madden, Derek.

- 2020 *The Naturalist's Illustrated Guide to the Sierra Foothills and Central Valley*. Heyday Publishing, Berkeley, California.

McGuire, Kelly R. and Alan P. Garfinkel.

- 1980 Archaeological Investigations in the Southern Sierra Nevada: The Bear Mountain Segment of the Pacific Crest Trail. *Cultural Resources Publications, Archaeology*, unnumbered: xii – 304.

Menefee, Eugene and Fred A. Doge.

- 1913 *A History of Tulare and Kings Counties California*. Historic Record Company, Los Angeles, California.

Merriam, Hart C.

- 1904 Distribution of Indian Tribes in the Southern Sierra and Adjacent Parts of the San Joaquin Valley, California. *Science* 19(494):912-917.

Mitchell, Annie R.

- 1974 *A Modern History of Tulare County*. Limited Edition of Visalia, Incorporated. Visalia, California.

Moratto, Michael J.

- 1984 *California Archaeology*. Academic Press, New York, NY.

NETROnline.

- 2024 "Historic Aerials by NETROnline". <https://www.historicaerials.com/viewer>. Accessed November 2, 2024.

Powers, Stephen

- 1877 *Tribes of California*. Washington Press, Washington, D.C.

Preston, William L.

- 1981 *Vanishing Landscapes: Land and Life in the Tulare Lake Basin*. Olympic Marketing Corp, Hopkins.

Prothero, Donald R.

- 2017 *California's Amazing Geology*. Taylor and Francis Group.

Riddell, Francis A.

- 2002 *The Status of San Joaquin Valley Archaeological*. In *Essays in California Archaeology: A Memorial to Franklin Fenenga* edited by William J. Wallace and Francis A. Riddell, pp. 55-61. University of California Archaeological Research Facility, Contribution Number 60. Berkeley, California.

Rosenthal, Jeffrey S., Gregory G. White, and Mark Q. Sutton

- 2007 *The Central Valley: A View from the Catbirds's Seat*. In *California Prehistory: Colonization, Cultural, and Complexity*, edited by Terry L. Jones and Kathryn A. Klar. AltaMira Press, Lanham, Maryland.

Schenck, W.E., and E.J. Dawson

- 1929 *Archaeology of the Northern San Joaquin Valley*. *University of California Publications in American Archaeology and Ethnology* 25:289-413. University of California, Bakersfield, California.

Siefken, Nelson.

- 1999 *Archaeology of the Redfeldt Mound (CA-KIN-66), Tulare Basin, California*. M.A. Thesis, Department of Anthropology, California State University, Bakersfield.

Smith, Wallace.

- 2004 *Garden of the Sun: A History of the San Joaquin Valley: 1772-1939*. 2nd ed., revised by William B. Secrest, Jr. Linden Publishing, Fresno, California.

Starr, Kevin.

- 2007 *California: A History*. Random House Publishing Group, New York, New York.

Stuart, David R.

- 1974 *California's Department of Transportation: Convert Portion of Route 41 to a Full Freeway*. California State University, Fresno, California. Prepared for Caltrans District 6.

U.S. Geological Survey (USGS)

- 1927 *Remnoy, California, Quadrangle Map*. 7.5-minute series. U.S. Geological Survey, Denver, Colorado.
- 1954 *Remnoy, California, Quadrangle Map*. 7.5-minute series. U.S. Geological Survey, Denver, Colorado.

- 2012 *Remnoy, California, Quadrangle Map*. 7.5-minute series. U.S. Geological Survey, Denver, Colorado.
- 2015 *Remnoy, California, Quadrangle Map*. 7.5-minute series. U.S. Geological Survey, Denver, Colorado.
- 2018 *Remnoy, California, Quadrangle Map*. 7.5-minute series. U.S. Geological Survey, Denver, Colorado.
- 2021 *Remnoy, California, Quadrangle Map*. 7.5-minute series. U.S. Geological Survey, Denver, Colorado.

Varner, Dudley M. and David R. Stuart.

- 1975 *Survey of Archaeological and Historical Resources in the Central Yokohl Valley, Tulare County, California*. Sacramento: Report to the U.S. Bureau of Reclamation.

Wallace, William J.

- 1978 Southern Valley Yokuts. In *Handbook of North American Indians, Vol. 8, California*. Ed. Robert F. Heizer, pp. 448-461. The Geological Society of American, Inc., Boulder, Colorado

Zack, Richard.

- 2017 *Quest for Water Tulare Irrigation District its History, People, and Progression*. PartnerPress.org, Carlsbad, California.

APPENDIX A

Personnel Qualifications

Areas of Expertise

- Cultural Resource Management
- CEQA and Federal regulations
- Prehistoric Archaeology
- Laboratory Management
- Technical Writing
- Phase I Assessments

Years of Experience

- 16

Education

- M.A., Archaeology, University of Durham, 2014
- B.A., Anthropology, California State University, Fresno, 2009

Registrations/Certifications

- Registered Professional Archaeologist 41591505

Professional Affiliations

- Coalition for Diversity in California Archaeology
- Society for American Archaeology
- Society for California Archaeology
- Society of Black Archaeologists

Professional Experience

- 2019 –Present Principal Investigator, Taylored Archaeology, Fresno, California
- 2018 – 2019 Staff Archaeologist, Applied EarthWorks, Inc., Fresno, California
- 2016 – 2018 Principal Investigator, Soar Environmental Consulting, Inc., Fresno, California
- 2015 Archivist/Database Technician, Development and Conservation Management, Inc., Laguna Beach, California
- 2013 Laboratory Research Assistant, Durham University Archaeology Department and Archaeology Museum, Durham, England, UK
- 2011 – 2012 Laboratory Technician, University of Pennsylvania Museum of Archaeology and Anthropology, Philadelphia, Pennsylvania
- 2008 – 2009 Laboratory Technician, California State University, Fresno
- 2008 Field School, California State University, Fresno

Technical Qualifications

Ms. Sauls meets the Secretary of the Interior's Professional Qualification Standards as an archaeologist. She has conducted pedestrian surveys, supervised Extended Phase I survey, authored technical reports, and completed the Section 106 process with the State Historic Preservation Officer and Tribal Historic Preservation Officer. Her experience includes data recovery excavation at Western Mono sites and processing recovered artifacts in the laboratory as well as conducting archival research about prehistory and ethnography of Central California. Ms. Sauls has authored and contributed to technical and letter reports in compliance with of the National Historical Preservation Act (NHPA) Section 106 and the California Environmental Quality Act (CEQA). She also has supported NHPA tribal consultation and responded to Assembly Bill 52 tribal comments. Ms. Sauls also has an extensive background supervising laboratory processing, cataloging, and conservation of prehistoric and historical archaeological collections. In addition, she worked with the Rock Art Heritage Group in the management, preservation, and presentation of rock art in museums throughout England, including a thorough analysis of the British Museum's rock art collections. At Durham University Archaeology Museum, Ms. Sauls processed the excavated skeletal remains of 30 individuals from the seventeenth century.

APPENDIX B

Records Search Results



10/14/2024

Consuelo Sauls
Tailored Archaeology
6083 N. Figarden Drive, Suite 616
Fresno, CA 93722

Re: Copper Ridge Tentative Subdivision Map
Records Search File No.: 24-452

The Southern San Joaquin Valley Information Center received your record search request for the project area referenced above, located on Remnoy USGS 7.5' quad. The following reflects the results of the records search for the project area and the 0.5 mile radius:

As indicated on the data request form, the locations of resources and reports are provided in the following format: ☒ custom GIS maps ☐ GIS data

Resources within project area:	None
Resources within 0.5 mile radius:	P-16-000105, 000106, 000107, 000108, 000109, 000110, 000111, 000112, 000113, 000114, 000115, 000116, 000246
Reports within project area:	KI-00103, 00238, 00269
Reports within 0.5 mile radius:	KI-00093, 00100, 00268

Resource Database Printout (list):

☒ enclosed ☐ not requested ☐ nothing listed

Resource Database Printout (details):

☒ enclosed ☐ not requested ☐ nothing listed

Resource Digital Database Records:

☒ enclosed ☐ not requested ☐ nothing listed

Report Database Printout (list):

☒ enclosed ☐ not requested ☐ nothing listed

Report Database Printout (details):

☒ enclosed ☐ not requested ☐ nothing listed

Report Digital Database Records:

☒ enclosed ☐ not requested ☐ nothing listed

Resource Record Copies:

☒ enclosed ☐ not requested ☐ nothing listed

Report Copies:

☒ enclosed ☐ not requested ☐ nothing listed

OHP Built Environment Resources Directory:

☒ enclosed ☐ not requested ☐ nothing listed

Archaeological Determinations of Eligibility:

☐ enclosed ☐ not requested ☒ nothing listed

CA Inventory of Historic Resources (1976):

☐ enclosed ☐ not requested ☒ nothing listed

Caltrans Bridge Survey: Not available at SSJVIC; please see <https://dot.ca.gov/programs/environmental-analysis/cultural-studies/california-historical-bridges-tunnels>

Ethnographic Information: Not available at SSJVIC

Historical Literature: Not available at SSJVIC

Historical Maps: Not available at SSJVIC; please see <http://historicalmaps.arcgis.com/usgs/>

Local Inventories: Not available at SSJVIC

GLO and/or Rancho Plat Maps: Not available at SSJVIC; please see <http://www.glorecois.bim.gov/search/default.aspx#searchTabIndex=0&searchByTypeIndex=1> and/or <http://www.oac.cdlib.org/view?docid=hb8489p15p;developer=local;style=oac4;doc.view=items>

Shipwreck Inventory: Not available at SSJVIC; please see <https://www.slc.ca.gov/shipwrecks/>

Soil Survey Maps: Not available at SSJVIC; please see <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

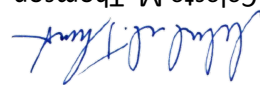
The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archaeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,


Celeste M. Thomson
Coordinator

APPENDIX C

Native American Outreach



NATIVE AMERICAN HERITAGE COMMISSION

October 10, 2024

Consuelo Sauls
Taylored ArchaeologyVia Email to: csaulsarchaeo@gmail.com

Re: Copper Ridge Tentative Subdivision Map Project, Kings County

To Whom It May Concern:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Mathew.Lin@nahc.ca.gov

Sincerely,

*Mathew Lin*Mathew Lin
Cultural Resources Analyst

Attachment

CHAIRPERSON
Reginald Pagaling
ChumashVICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki,
NomlakiSECRETARY
Sara Dutschke
MiwokPARLIAMENTARIAN
Wayne Nelson
LuiseñoCOMMISSIONER
Isaac Bojorquez
Ohlone-CostanoanCOMMISSIONER
Stanley Rodriguez
KumeyaayCOMMISSIONER
Laurena Bolden
SerranoCOMMISSIONER
Reid Milanovich
CahuillaCOMMISSIONER
Bennae Calac
Pauma-Yuima Band of
Luiseño IndiansEXECUTIVE SECRETARY
**Raymond C.
Hitchcock**
Miwok, NisenanNAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710

**Native American Heritage Commission
Native American Contact List
Kings County
10/10/2024**

County	Tribe Name	Fed (F) Non-Fed (N)	Contact Person	Contact Address	Phone #	Fax #	Email Address	Cultural Affiliation	Counties	Last Updated
Kings	Kitanemuk & Yowlumne Tejon Indians	N	Delia Dominguez, Chairperson	115 Radio Street Bakersfield, CA, 93305	(626) 339-6785		2deedominguez@gmail.com	Kitanemuk Southern Valley Yokut	Fresno,Kern,Kings,Los Angeles,Madera,Monterey, San Benito,San Luis Obispo,Tulare	
	Santa Rosa Rancheria Tachi Yokut Tribe	F	Samantha McCarty, Cultural Specialist II	P.O. Box 8 Lemoore, CA, 93245	(559) 633-3440		smccarty@tachi-yokut-nsn.gov	Southern Valley Yokut	Fresno,Kern,Kings,Merced, Monterey,San Benito,San Luis Obispo,Tulare	10/3/2023
	Santa Rosa Rancheria Tachi Yokut Tribe	F	Shana Powers, THPO	P.O. Box 8 Lemoore, CA, 93245	(559) 423-3900		spowers@tachi-yokut-nsn.gov	Southern Valley Yokut	Fresno,Kern,Kings,Merced, Monterey,San Benito,San Luis Obispo,Tulare	10/3/2023
	Santa Rosa Rancheria Tachi Yokut Tribe	F	Nichole Escalon, Cultural Specialist I	P.O. Box 8 Lemoore, CA, 93245	(559) 924-1278		nescalone@tachi-yokut-nsn.gov	Southern Valley Yokut	Fresno,Kern,Kings,Merced, Monterey,San Benito,San Luis Obispo,Tulare	10/3/2023
	Table Mountain Rancheria	F	Bob Pennell, Cultural Resource Director	P.O. Box 410 Friant, CA, 93626	(559) 325-0351	(559) 325-0394	rpennell@tmr.org	Yokut	Fresno,Kern,Kings,Madera ,Monterey,San Benito,San Luis Obispo,Tulare	
	Table Mountain Rancheria	F	Michelle Heredia-Cordova, Chairperson	P.O. Box 410 Friant, CA, 93626	(559) 822-2587	(559) 822-2693	mhcordova@tmr.org	Yokut	Fresno,Kern,Kings,Madera ,Monterey,San Benito,San	12/21/2023

**Native American Heritage Commission
Native American Contact List
Kings County
10/10/2024**

County	Tribe Name	Fed (F) Non- Fed (N)	Contact Person	Contact Address	Phone #	Fax #	Email Address	Cultural Affiliation	Counties	Last Updated
	Tule River Indian Tribe	F	Joey Garfield, Tribal Archaeologist	P. O. Box 589 Porterville, CA, 93258	(559) 783-8892	(559) 783-8932	joey.garfield@tulerivertribe-nsn.gov	Yokut	Alameda, Amador, Calaveras, Contra Costa, Fresno, Inyo, Kern, Kings, Madera, Mariposa, Merced, Monterey, Sacramento, San Benito, San Joaquin, San Luis Obispo, Stanislaus, Tulare, Tuolumne	7/22/2016
	Tule River Indian Tribe	F	Kerri Vera, Environmental Department	P. O. Box 589 Porterville, CA, 93258	(559) 783-8892	(559) 783-8932	kerri.vera@tulerivertribe-nsn.gov	Yokut	Alameda, Amador, Calaveras, Contra Costa, Fresno, Inyo, Kern, Kings	7/22/2016
	Tule River Indian Tribe	F	Neil Peyron, Chairperson	P.O. Box 589 Porterville, CA, 93258	(559) 781-4271	(559) 781-4610	neil.peyron@tulerivertribe-nsn.gov	Yokut	Alameda, Amador, Calaveras, Contra Costa, Fresno, Inyo, Kern, Kings	

**Native American Heritage Commission
Native American Contact List
Kings County
10/10/2024**

County	Tribe Name	Fed (F) Non- Fed (N)	Contact Person	Contact Address	Phone #	Fax #	Email Address	Cultural Affiliation	Counties	Last Updated
	Wuksachi Indian Tribe/Eshom Valley Band	N	Kenneth Woodrow, Chairperson	1179 Rock Haven Ct. Salinas, CA, 93906	(831) 443-9702		kwood8934@aol.com	Foothill Yokut Mono	Alameda, Calaveras, Contra Costa, Fresno, Inyo, Kings, Madera, Marin, Mariposa, Merced, Mono, Monterey, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Stanislaus, Tulare, Tuolumne	6/19/2023

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

Record: PROJ-2024-005277

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Copper Ridge Tentative Subdivision Map Project, Kings County.

Report Type: List of Tribes
Counties: Kings
NAHC Group: All

Native American Outreach Log								
Copper Ridge Tentative Subdivision Map Project, Kings County, California								
Organization	Name	Position	Address	Phone Number	Email Address	Letter	E-Mail	Summary of Contact
Native American Heritage Commission	Mathew Lin	Cultral Resources Analyst	1550 Harbor Boulevard Suite 100 West Sacramento, California 95691	(916) 373-3710	nahc@nahc.ca.gov		10/4/2024	In a letter dated October 10, 2024, the NAHC stated that the results of the SLF results were negative and suggested to contact the local Native American representatives on the list provided.
Kitanemuk & Yowlumne Tejon Indians	Delia Dominguez	Chairperson	115 Radio Street Bakersfield, CA 93305	(626) 339-6785	2deedominguez@gmail.com	10/28/2024	11/7/2024	No response.
Santa Rosa Rancheria Tachi Yokut Tribe	Shana Powers	THPO	P.O. Box 8 Lemoore, CA 93245	(559) 423-3900	spowers@tachi-yokut-nsn.gov	N/A	N/A	No longer with Santa Rosa Rancheria Tachi Yokut Tribe.
Santa Rosa Rancheria Tachi Yokut Tribe	Nichole Escalon	THPO	P.O. Box 8 Lemoore, CA 93245	(559) 423-3900	nescalone@tachi-yokut-nsn.gov	10/28/2024	11/7/2024	No response.
Santa Rosa Rancheria Tachi Yokut Tribe	Samantha McCarty	Cultural Specialist II	P.O. Box 8 Lemoore, CA 93245	(559) 633-3440	smccarty@tachi-yokut-nsn.gov	10/28/2024	11/7/2024	Samantha McCarty responded on November 1, 2024, requesting results from CHRIS records search, SLF results, Curation Agreement, Burial Treatment Plan, Cultural Presentation for all staff and crew that may join mid project, have a tribal monitor and an archaeologist on site for all ground disturbance.
Table Mountain Rancheria	Michelle Heredia-Cordova	Chairperson	P.O. Box 410 Friant, CA 93626	(559) 822-2587	mhcordova@tmr.org	10/28/2024	11/7/2024	No response.
Table Mountain Rancheria	Bob Pennell	Cultural Resource Director	P.O. Box 410 Friant, CA, 93626	(559) 325-0351	rpennell@tmr.org	10/28/2024	11/7/2024	No response.
Tule River Indian Tribe	Kerri Vera	Environmental Department Director	P.O. Box 589 Porterville, CA 93258	(559) 783-8892	kerri.vera@tulerivertribe-nsn.gov	10/28/2024	11/7/2024	No response.
Tule River Indian Tribe	Joey Garfield	Tribal Archaeologist	P.O. Box 589 Porterville, CA 93258	(559) 783-8892	joey.garfield@tulerivertribe-nsn.gov	10/28/2024	11/7/2024	No response.
Tule River Indian Tribe	Neil Peyron	Chairperson	P.O. Box 589 Porterville, CA 93258	(559) 781-4271	neil.peyron@tulrivertribe-nsn.gov	10/28/2024	11/7/2024	No response.
Wuksache Indian Tribe/Eshom Valley Band	Kenneth Woodrow	Chairperson	1179 Rock Haven Ct. Salinas, CA 93906	(831) 443-9702	kwood8934@aol.com	10/28/2024	11/7/2024	No response.



EXAMPLE

October 28, 2024

Nichole Escalon, Tribal Historic Preservation Officer
Samantha McCarty, Cultural Specialist II
Santa Rosa Rancheria Tachi Yokut Tribe
P.O. Box 8
Lemoore, CA 93245

RE: Copper Ridge Tentative Subdivision Map Project, Kings County, California

Dear Nichole Escalon and Samantha McCarty,

Taylored Archaeology, under contract to N & M Capital, LLC, is providing cultural resource services for the proposed Copper Ridge Tentative Subdivision Map Project (project) in Kings County, California. The project proposes to construct a single-family development on approximately 83 acres of agricultural land. This project is subject to the California Environmental Quality Act (CEQA). The project site is on the northeast corner of 9 ¼ Avenue and Grangeville Boulevard, north of State Route 198 and east of the city of Hanford. The APE is in Section 19, Township 18 South, Range 22 East, Mount Diablo Meridian of the Remnoy, California 7.5-minute USGS quadrangle (see attached maps).

A search of the Native American Heritage Commission's (NAHC) Sacred Lands File did not indicate the presence of tribal or cultural resources in the immediate project area. Taylored Archaeology also requested a records search of the APE at the California Historic Resources Information System (CHRIS), Southern San Joaquin Valley Information Center (SSJVIC) located at the California State University, Bakersfield. The records search results indicated that there are no previously recorded cultural resources within the project boundary and 13 historic-era resources within a 0.5-mile radius. The SSJVIC identified three previously completed cultural reports in the project area, and three within the surrounding 0.5-mile radius. On October 19, 2024, Taylored Archaeology completed an intensive pedestrian survey within the project boundary to identify and record cultural resources present at the ground surface level. No cultural resources were identified during the archaeological pedestrian survey.

The NAHC provided your name and address as someone who may have interest in sharing information regarding sacred sites, tribal cultural resources, or other resources of importance in the project area. Please note this outreach letter is research for a cultural resources investigation and is not government-to-government consultation under Assembly Bill 52. Taylored Archaeology understands and takes measures to protect the confidentiality of archaeological site locations, cemeteries, or sacred places, as required by law. Taylored Archaeology will not disclose locational information in any document available to the general public.

6083 N Figarden Dr., Ste. 616, Fresno, CA 93722
559.797.1572 / csaulsarchaeo@gmail.com



If you have information that you would like to share, have questions, or would like more information about the project, please contact me by email at csaulsarchaeo@gmail.com, or send a letter to my attention at 6083 N. Figarden Dr., Ste. 616, Fresno, CA 93722. Any response by November 11, 2024, would be greatly appreciated.

Sincerely,

A handwritten signature in blue ink that reads "Consuelo Y. Sauls".

Consuelo Y. Sauls, M.A., RPA # 41591505
Archaeologist



Consuelo Sauls <csaulsarchaeo@gmail.com>

Native American Outreach - Copper Ridge Tentative Subdivision Map Project, Kings County

5 messages

Consuelo Sauls <csaulsarchaeo@gmail.com>

Mon, Oct 28, 2024 at 8:21 AM

To: Nichole Escalon <nescalon@tachi-yokut-nsn.gov>, Samantha McCarty <SMcCarty@tachi-yokut-nsn.gov>

Dear Nichole Escalon and Samantha McCarty,

Please find attached a letter and maps addressed to the Santa Rosa Rancheria Tachi Yokut Tribe for Native American outreach regarding the Copper Ridge Tentative Subdivision Map Project in Kings County.

The NAHC provided your name and address as someone who may have interest in sharing information regarding sacred sites, tribal cultural resources, or other resources of importance in the project area. Taylored Archaeology is conducting this outreach for research as part of the cultural resources investigation. Your response is greatly appreciated.

Respectively,

Consuelo Sauls

--

Consuelo Sauls, M.A., RPA 41591505**Archaeologist****Taylored Archaeology****6083 N. Figarden Dr., Ste. 616****Fresno, CA 93722**csaulsarchaeo@gmail.com

559.797.1572

3 attachments



Copper Ridge Aerial Map.jpg
343K

**Copper Ridge TSM Topo.pdf**

1225K

**Nichole Escalon Outreach Letter- Copper Ridge TSM Project.pdf**

115K

Samantha McCarty <SMcCarty@tachi-yokut-nsn.gov>

Tue, Oct 29, 2024 at 8:27 AM

To: Consuelo Sauls <csaulsarchaeo@gmail.com>, Nichole Escalon <nescalon@tachi-yokut-nsn.gov>

Good Morning Consuelo,

Thank you for contacting us regarding this project. The Tribe has major concerns regarding this project due to Tribal knowledge and the history of the area.

We recognize that this is not government-to-government consultation and because of that we are requesting the name and contact information of the lead agency and the lead person's contact information. We would like to include them in our official response that will address all of our concerns and requests.

If you have any questions, comments, and or concerns, please do not hesitate to contact Nichole or I. Thank you.

Samantha McCarty

Santa Rosa Rancheria Tachi-Yokut Tribe

Cultural Specialist II

SMcCarty@tachi-yokut-nsn.gov

Cell: (559) 633-6640

Direct Line: (559) 925-2591

Office: (559) 924-1278 x 4091

***PLEASE KEEP ALL CULTURAL STAFF IN EMAILS UNLESS STATED OTHERWISE**

From: Consuelo Sauls <csaulsarchaeo@gmail.com>

Sent: Monday, October 28, 2024 8:21 AM

To: Nichole Escalon <nescalon@tachi-yokut-nsn.gov>; Samantha McCarty <SMcCarty@tachi-yokut-nsn.gov>

Subject: Native American Outreach - Copper Ridge Tentative Subdivision Map Project, Kings County

[Quoted text hidden]

Consuelo Sauls <csaulsarchaeo@gmail.com>

Tue, Oct 29, 2024 at 11:35 AM

To: Samantha McCarty <SMcCarty@tachi-yokut-nsn.gov>, Nichole Escalon <nescalon@tachi-yokut-nsn.gov>

Hi Samantha,

Thank you for your response. The project is in an extremely early research/ due diligence phase and there is no formal CEQA lead agency yet. The CEQA consultant, Darlene Mata at DR Mata Consulting, told me she can reach out to you this afternoon by phone to let you know more regarding the project. Darlene did say that the project will propose to annex the property into the city of Hanford and anticipates the city will be the lead agency. Thank you.

Consuelo Sauls

[Quoted text hidden]

Samantha McCarty <SMcCarty@tachi-yokut-nsn.gov>

Fri, Nov 1, 2024 at 11:38 AM

To: Consuelo Sauls <csaulsarchaeo@gmail.com>, Nichole Escalon <nescalon@tachi-yokut-nsn.gov>, "darlene@drmataconsulting.com" <darlene@drmataconsulting.com>

Good Morning Consuelo,

I just spoke with Darlene and I've added her to this email.

The Tribe is requesting the following:

- The results of the Archaeological Record Search to be shared with us
- The SLF search results shared with us.
- To have a Curation Agreement in place prior to any work beginning
- To have a Burial Treatment Plan in place prior to any work beginning
- To be retained for a Cultural Presentation for all staff and crew prior to any work beginning and for any new staff/crew that may join mid project
- To have a tribal monitor on site for all ground disturbance related to the project
- To have an archaeologist on site for all ground disturbance related to the project

Please let me know if you have any questions, comments, and or concerns. Thank you.

Sincerely,

Samantha McCarty

Santa Rosa Rancheria Tachi-Yokut Tribe

Cultural Specialist II

SMcCarty@tachi-yokut-nsn.gov

Cell: (559) 633-6640

Direct Line: (559) 925-2591

Office: (559) 924-1278 x 4091

***PLEASE KEEP ALL CULTURAL STAFF IN EMAILS UNLESS STATED OTHERWISE**

From: Consuelo Sauls <csaulsarchaeo@gmail.com>

Sent: Tuesday, October 29, 2024 11:35 AM

To: Samantha McCarty <SMcCarty@tachi-yokut-nsn.gov>; Nichole Escalon <nescalon@tachi-yokut-nsn.gov>

Subject: Re: Native American Outreach - Copper Ridge Tentative Subdivision Map Project, Kings County

[Quoted text hidden]

Consuelo Sauls <csaulsarchaeo@gmail.com>

Tue, Nov 5, 2024 at 11:00 AM

To: Samantha McCarty <SMcCarty@tachi-yokut-nsn.gov>

Cc: Nichole Escalon <nescalon@tachi-yokut-nsn.gov>, "darlene@drmataconsulting.com" <darlene@drmataconsulting.com>

Hi Samantha,

Thank you for your response, I will incorporate this information into my report. Attached are the SLF letter and the CHRIS Records Search letter. Please note all cultural records listed in the CHRIS letter are historic-era resources. Regarding copies of records and reports, I have been instructed by the Southern San Joaquin Valley Information Center that tribes requesting copies to reach out to SSJVIC directly. You can contact them at ssjvic@csu.edu. For your reference, the SSJVIC records search file number for this project is: 24-452. Thank you.

Sincerely,

Consuelo Sauls

[Quoted text hidden]

2 attachments



SLF No Copper Ridge Tentative Subdivision Map Project 10.10.2024.pdf

359K



24-452 Results Letter.pdf

428K

Appendix E

Phase 1

Prepared For

**N & M CAPITAL LLC
1878 NORTH MOONEY BOULEVARD, SUITE J
TULARE, CALIFORNIA 93274**

**PHASE I ENVIRONMENTAL
SITE ASSESSMENT REPORT**

**PROPOSED DEVELOPMENT
APNs 014-143-069 & 014-143-078
GRANGEVILLE BOULEVARD & 9 1/4 AVENUE
HANFORD, CALIFORNIA**

**Date Issued: August 8, 2024
Project Number 24-89**

Prepared By

**PAUL HUMPHREY, EP
7402 EAST CLINTON AVENUE
FRESNO, CALIFORNIA 93737
TEL (559) 592-3555**

TABLE OF CONTENTS

EXECUTIVE SUMMARY	iv
1.0 INTRODUCTION.....	vi
1.1 Purpose.....	1
1.2 Detailed Scope of Services.....	1
1.3 Significant Assumptions	2
1.4 Limitations and Exceptions.....	2
1.5 Special Terms and Conditions	2
1.6 Use Reliance	2
2.0 SITE DESCRIPTION	3
2.1 Location and Legal Description	3
2.2 Site and Vicinity General Characteristics	3
2.3 Current Use of the Subject Property	3
2.4 Description of Site Improvements	3
2.5 Current Use of Adjoining Properties.....	3
3.0 USER PROVIDED INFORMATION	4
3.1 Title Records.....	4
3.2 Environmental Liens or Activity and Use Limitation	4
3.3 Specialized Knowledge.....	4
3.4 Commonly Known or Reasonably Ascertainable Information	4
3.5 Valuation Reduction for Environmental Issues.....	4
3.6 Owner, Property Manager, and Occupant Information	4
3.7 Reason for Performing Phase I ESA	5
4.0 RECORDS REVIEW.....	6
4.1 Standard Environmental Record Sources.....	6
4.2 Additional Environmental Record Sources.....	7
4.3 Physical Setting Sources	8
4.3.1 Topography.....	8
4.3.2 Soils/Geology	8
4.3.3 Hydrology	8
4.3.4 Flood Zone Information.....	9
4.3.5 Oil and Gas Exploration	9
4.3.6 Vapor Encroachment	9
4.4 Historical Use Information: Subject Property and Adjoining Properties	9
4.4.1 Aerial Photographs	9
4.4.2 Fire Insurance Maps	12
4.4.3 City Directories.....	12
4.4.4 Historical Topographic Maps	12
4.4.5 Additional Historical Record Sources	12
4.4.6 Prior Assessment Reports	13
5.0 SITE RECONNAISSANCE	14
5.1 Methodology and Limiting Conditions	14
5.2 General Site Setting	14
5.3 Exterior Observations	14
5.3.1 Solid Waste Disposal.....	14
5.3.2 Surface Water Drainage.....	14

5.3.3	Wells and Cisterns	14
5.3.4	Wastewater	14
5.3.5	Additional Site Observations.....	14
5.4	Interior Observations.....	14
5.5	Potential Environmental Conditions	15
5.5.1	Hazardous Substances and Petroleum Products Used or Stored at the Site	15
5.5.2	Evidence of Releases	15
5.5.3	Polychlorinated Biphenyls (PCBs)	15
5.5.4	Landfills.....	15
5.5.5	Pits, Ponds, Lagoons, Sumps, and Catch Basins	15
5.5.6	On-Site ASTs and USTs.....	16
5.5.7	Radiological Hazards.....	16
5.5.8	Drinking Water	16
5.5.9	Additional Hazard Observations.....	16
5.5.10	Asbestos-Containing Materials (ACM)	16
5.5.11	Radon.....	16
5.5.12	Lead-Based Paint	16
5.5.13	Mold Evaluation	16
6.0	INTERVIEWS.....	17
6.1	Interview with Owner.....	17
6.2	Interview with Site Manager	17
6.3	Interview with Occupants.....	17
6.4	Interview with Local Government Officials.....	17
6.5	Interview with Others.....	17
7.0	FINDINGS AND CONCLUSIONS.....	18
7.1	Findings	18
7.1.1	On-Site Environmental Conditions.....	18
7.1.2	Off-Site Environmental Conditions	18
7.1.3	Controlled Recognized Environmental Conditions	18
7.1.4	Historical Recognized Environmental Conditions.....	18
7.1.5	De Minimis Environmental Conditions	18
7.2	Opinion	18
7.3	Conclusions.....	18
7.4	Recommendations.....	18
7.5	Deviations	19
8.0	REFERENCES	20
9.0	SIGNATURES OF ENVIRONMENTAL PROFESSIONALS	21
10.0	QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS.....	22
10.1	Definition of an Environmental Professional	22
10.2	Relevant Experience.....	22

FIGURES

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Topographic Map

APPENDIX

Appendix A	Site Photographs
Appendix B	Historical Research Documentation
	Exhibit B-1 Aerial Photographs
Appendix C	Regulatory Records Documentation
	Exhibit C-1 Mapped Database Report
	Exhibit C-2 General Public Records
Appendix D	Interview Records
Appendix E	Client-Provided Documentation
Appendix F	Other Supporting Documentation
Appendix G	Qualifications Of Environmental Professionals

EXECUTIVE SUMMARY

Paul Humphrey, EP has performed a Phase I Environmental Site Assessment (ESA) in general accordance with the scope of work and limitations set forth by N & M Capital LLC for the property identified as Kings County Recorder's Office assessor's parcel numbers (APNs) 014-143-069 & 014-143-078, Hanford, California (the "Subject Property").

The Phase I Environmental Site Assessment is designed to provide N & M Capital LLC with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the Subject Property. This assessment was conducted utilizing generally accepted ESA industry standards in accordance with ASTM E1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).

The Subject Property includes two parcels of land totaling approximately 83.94± acres located at the northeast corner of Grangeville Boulevard and 9 1/4 Avenue in Hanford, California. The Subject Property is identified as APNs 014-143-069 & 014-143-078 and has no assigned address. The Subject Property consists of agricultural land and includes one irrigation water well on the north northeast portion of the site along the north boundary. A pad-mounted utility-owned transformer is located next to the well. Electricity for the transformer of the well appears to be delivered via a buried pipeline along the north boundary which enters the Subject Property near the northwest corner of the site.

Based on available historical documentation, the Subject Property consisted of agricultural and range land with a small outbuilding from at least 1934 up to the mid 1950s, agricultural land with a small outbuilding in the 1960s, and entirely agricultural land since at least the mid-1970s.

The Subject Property is situated within a residential and agricultural area of Hanford, California. The Subject Property is bound to the north by a rural residence with outbuildings and agricultural land; to the east by agricultural land; to the southeast by a rural residence with outbuildings and a small vacant area; to the south by Grangeville Boulevard followed by a single-family residence and agricultural land; and to the west by 9 1/4 Avenue followed by single-family residences, a park, and an elementary school.

According to the Lines of Equal Elevation of Water in Wells Map, Spring 2018, from the Department of Water Resources, groundwater in the vicinity of the subject site was at a depth of approximately 90 to 100 feet below ground surface and flows to the southwest.

Paul Humphrey, EP obtained and reviewed a database report from Environmental Risk Information Services (ERIS) for the Property and the surrounding area. The Subject Property was not identified in the database. The ERIS database identified two RCRA NON GEN, one ENVIROSTOR, one SWF/LF, one CERS TANK, one LUR, one VCP, one DELISTED COUNTY, one CUPA, one ALT FUELS, one TOXIC PITS, and one HAZ GEN located within the prescribed search radii. Based on review of regulatory documentation, off-site location, and/or estimated direction of groundwater flow, these facilities do not represent an environmental condition or concern.

Conclusions

Paul Humphrey, EP has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-21 of the property identified as APNs 014-143-069 &

014-143-078, Hanford, California, the Subject Property. Any exceptions to or deletions from this practice are described in Section 1.4 of this report.

Recognized Environmental Conditions (RECs) are defined by the ASTM Standard Practice E1527-21 as: (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. Paul Humphrey, EP's assessment has revealed the following RECs associated with the Subject Property or nearby properties:

- No on-site RECs were identified during the course of this assessment.

Controlled Recognized Environmental Conditions (CRECs) are defined by the ASTM Standard Practice E1527-21 as a recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations). Paul Humphrey, EP's assessment has revealed the following CRECs associated with the Subject Property or nearby properties:

- No on-site CRECs were identified during the course of this assessment.

Historical Recognized Environmental Condition (HREC) is defined by the ASTM Standard Practice E1527-21 as a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). Paul Humphrey, EP's assessment has revealed the following HRECs associated with the Subject Property or nearby properties:

- No on-site HRECs were identified during the course of this assessment.

Business Environmental Risk (BER) is defined by the ASTM Standard Practice E1527-21 as a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. BERs do not qualify as recognized environmental conditions, as defined by the ASTM Standard Practice E1527-21. Paul Humphrey, EP's investigation has revealed the following BERs associated with the Subject Property or nearby properties:

- The Subject Property is currently and was historically used for agricultural purposes. There is a potential that agricultural related chemicals such as pesticides, herbicides, and fertilizers, may have been used onsite. Based on Paul Humphrey, EP's experience, during previous site development activities, near surface soils (where residual agricultural chemical concentrations would have most likely been present, if at all) are likely generally mixed with fill material or disturbed during grading. Also, it is common that engineered fill material is placed over underlying soils as part of site development activities. These additional variables serve to further reduce the potential for exposure to residual agricultural chemicals (if any). Based on these reasons, Paul Humphrey, EP concludes that the possible use of agricultural chemicals is not expected to represent a significant environmental concern. If redevelopment activities for residential use are planned, it should be determined whether sampling relating to the former agricultural use is required by the local planning department or other applicable oversight agency.

- The Subject Property included one irrigation water well on the north northeast portion of the site along the north boundary. If the well is not to be used, the well should be properly destroyed in accordance with State and local guidelines.

Non-ASTM Considerations may include the presence of environmental conditions such as asbestos containing materials, lead-based paint, radon, mold, lead in drinking water, etc. which can affect the liabilities and financial obligations of the client, the health & safety of site occupants, and the value and marketability of the subject property. Paul Humphrey, EP's assessment has revealed the following Non-ASTM considerations associated with the Subject Property:

- No Non-ASTM considerations were identified during the course of the investigation.

Recommendations

Based on the information available at the time of this assessment, Paul Humphrey, EP does not recommend further investigation of the Subject Property at this time.

1.0 INTRODUCTION

Paul Humphrey, EP was retained by N & M Capital LLC to conduct a Phase I Environmental Site Assessment (ESA) of the property identified as APNs 014-143-069 & 014-143-078, Hanford, California (Subject Property). The protocol used for this assessment is in general conformance with ASTM E1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).

On July 26, 2024, Paul Humphrey, EP conducted a site reconnaissance to assess the possible presence of petroleum products and hazardous substances at the Subject Property. Paul Humphrey, EP's investigation included a review of aerial photographs, a reconnaissance of adjacent properties, background research, and a review of available local, state, and federal regulatory records regarding the presence of petroleum products and/or hazardous substances at the Subject Property.

Paul Humphrey, EP contracted ERIS, to perform a computer database search for local, state, and Federal regulatory records pertaining to environmental concerns for the Subject Property and properties in the vicinity of the Subject Property (see Section 3.0).

1.1 Purpose

The purpose of this Phase I Environmental Site Assessment (ESA) was to identify Recognized Environmental Conditions (as defined by ASTM Standard E-1527-21) in connection with the Subject Property.

1.2 Detailed Scope of Services

The purpose of the Phase I Environmental Site Assessment is to assist the client in identifying potential environmental liabilities associated with the presence of any hazardous substances or petroleum products, their use, storage, and disposal at and in the vicinity of the subject property that may have occurred at the subject property. Property assessment activities focused on: 1) a review of federal, state, tribal and local databases that identify and describe underground fuel tank sites, leaking underground fuel tank sites, hazardous waste generation sites, and hazardous waste storage and disposal facility sites within the ASTM approximate minimum search distance; 2) a property and surrounding site reconnaissance, and interviews with the past and present owners and current occupants and operators to identify potential environmental contamination; and 3) a review of historical sources to help ascertain previous land use at the site and in the surrounding area.

The goal of Paul Humphrey, EP in conducting the Phase I Environmental Site Assessment was to identify (1) the presence of *hazardous substances* or *petroleum products* in, on, or at the *subject property* due to a *release* to the *environment*; (2) the likely presence of *hazardous substances* or *petroleum products* in, on, or at the *subject property* due to a *release* or likely *release* to the *environment*; or (3) the presence of *hazardous substances* or *petroleum products* in, on, or at the *subject property* under conditions that pose a *material threat* of a future *release* to the *environment*.

No other warranties are implied or expressed.

1.3 Significant Assumptions

There is a possibility that even with the proper application of these methodologies there may exist on the Subject Property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. Paul Humphrey, EP believes that the information obtained from the record review and the interviews concerning the site is reliable. However, Paul Humphrey, EP cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The methodologies of this assessment are not intended to produce all inclusive or comprehensive results, but rather to provide N & M Capital LLC with information relating to the Subject Property.

1.4 Limitations and Exceptions

The findings and conclusions contain all of the limitations inherent in these methodologies that are referred to in ASTM 1527-21. Specific limitations and exceptions to this ESA are more specifically set forth below:

- A Phase I ESA interview with the current or previous owner of the Subject Property was not reasonably ascertainable. Consequently, information regarding the history and historical uses of the Subject Property obtained from an interview of the previous owner constitutes a data gap. Taken in consideration with the available information obtained in the course of preparing this report in conjunction with professional experience, there is no evidence to suggest that this data gap might alter the conclusions of this assessment.

1.5 Special Terms and Conditions

The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluations. The conclusions presented in the report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the client. No subsurface exploratory drilling or sampling was done under the scope of this work. Unless specifically stated otherwise in the report, no chemical analyses have been performed during the course of this ESA.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.

1.6 Use Reliance

All reports, both verbal and written, are for the benefit of N & M Capital LLC. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of Paul Humphrey, EP.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The Subject Property is located at the northeast corner of Grangeville Boulevard and 9 1/4 Avenue in Hanford, California. The Subject Property is identified as Kings County Recorder's Office APNs 014-143-069 & 014-143-078.

2.2 Site and Vicinity General Characteristics

The Subject Property is located in a residential and agricultural area consisting of single-family residences, a park, school, and agricultural land.

2.3 Current Use of the Subject Property

The Subject Property consists of agricultural land.

2.4 Description of Site Improvements

The Subject Property includes two parcels of land totaling approximately 83.94± acres. The Subject Property consists of agricultural land and includes one irrigation water well on the north northeast portion of the site along the north boundary. A pad-mounted utility-owned transformer is located next to the well. Electricity for the transformer of the well appears to be delivered via a buried pipeline along the north boundary which enters the Subject Property near the northwest corner of the site.

2.5 Current Use of Adjoining Properties

During the vicinity reconnaissance, Paul Humphrey, EP observed the following land use on properties in the immediate vicinity of the Subject Property.

North: Rural residence with outbuildings and agricultural land

East: Agricultural land

Southeast: Rural residence with outbuildings and a small vacant area

South: Grangeville Boulevard followed by a single-family residence and agricultural land

West: 9 1/4 Avenue followed by single-family residences, a park, and an elementary school

3.0 USER PROVIDED INFORMATION

Pursuant to ASTM E1527-21, Paul Humphrey, EP requested the following site information from N & M Capital LLC (User of this report).

3.1 Title Records

Paul Humphrey, EP requested title records from the User; however, a 50-year chain of title was not available at the Subject Property and was not provided for review.

3.2 Environmental Liens or Activity and Use Limitation

Paul Humphrey, EP requested information from the User regarding knowledge of environmental liens, activity and use limitations for the Subject Property. The User had no knowledge of any environmental liens or use or activity limitations.

3.3 Specialized Knowledge

Paul Humphrey, EP inquired with the User regarding any specialized knowledge of environmental conditions associated with the Subject Property. The User was not aware of any environmental conditions associated with the Subject Property.

3.4 Commonly Known or Reasonably Ascertainable Information

Paul Humphrey, EP inquired with the User regarding any commonly known or *reasonably ascertainable* information within the local community about the Subject Property that is material to *recognized environmental conditions* in connection with the Subject Property. The User had no reasonably ascertainable information within the local community about the Subject Property that is material to recognized environmental conditions in connection with the Subject Property.

3.5 Valuation Reduction for Environmental Issues

Paul Humphrey, EP inquired with the User regarding any knowledge of reductions in property value due to environmental issues. The User was not aware of any valuation reductions associated with the Subject Property.

3.6 Owner, Property Manager, and Occupant Information

The following information regarding the Owner, Subject Property Manager and Occupants was provided by the User and Key Site Manager.

<i>Subject Property Owner:</i>	Warmerdam Family Trust, Dadigian Family Trust
<i>Subject Property Manager:</i>	Eddie Warmerdam
<i>Occupants:</i>	None

3.7 Reason for Performing Phase I ESA

The purpose of this ESA was to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E-1527-21) in connection with the Subject Property. This ESA was also performed to permit the *User* to satisfy one of the requirements to qualify for the *innocent landowner*, *contiguous property owner*, or *bona fide prospective purchaser* limitations on scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the “*landowner liability protections*,” or “*LLPs*”). ASTM Standard E-1527-13 constitutes “*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice” as defined at 42 U.S.C. §9601(35)(B).

4.0 RECORDS REVIEW

4.1 Standard Environmental Record Sources

Information from standard Federal and state environmental record sources was provided through ERIS. Data from governmental agency lists are updated and integrated into one database, which is updated as these data are released. This integrated database also contains postal service data in order to enhance address matching. Records from one government source are compared to records from another to clarify any address ambiguities. The demographic and geographic information available provides assistance in identifying and managing risk. The accuracy of the geocoded locations is approximately +/-300 feet.

In some cases, location information supplied by the regulatory agencies is insufficient to allow the database companies to geocode facility locations. These facilities are listed under the unmappables (“orphan sites”) section within the ERIS report. A review of the unmappable facilities indicated that none of these facilities are within the ASTM minimum search distance from the Subject Property.

Regulatory information from the database sources regarding possible recognized environmental conditions, within the ASTM minimum search distance from the Subject Property, was reviewed. Specific facilities are discussed below the Table if determined likely that a potential recognized environmental condition has resulted at the Subject Property from the listed facilities. Please refer to Appendix C for a complete listing.

Database	Search Distance (Miles)	Subject Property Listed	Total Number of Listings	Potential Environmental Concern to the Subject Property
NPL, PROPOSED NPL	1	No	0	
DELISTED NPL	0.5	No	0	
SEMS, SEMS ARCHIVE	0.5	No	0	
CERCLIS, CERCLIS NFRAP, CERCLIS LIENS	0.5	No	0	
RCRA CORRACTS	1	No	0	
RCRA-TSD	0.5	No	0	
RCRA LQG, SQG, CESQGs, VGN, NLR, NON GEN	0.25	No	2	No
FED ENG, FED INST	TP	No	0	
ERNS	TP	No	0	
FED BROWNFIELDS	0.5	No	0	
STATE/TRIBAL HWS (includes RESPONSE, Envirostor, DELISTED ENVS)	1	No	1	No

Database	Search Distance (Miles)	Subject Property Listed	Total Number of Listings	Potential Environmental Concern to the Subject Property
SWF/LF	0.5	No	1	No
HWP	1	No	0	
LDS	0.5	No	0	
LUST, DELISTED LST	0.5	No	0	
UST, UST SWEEPS	0.25	No	0	
UST CLOSURE	0.5	No	0	
HHSS, AST, DELISTED TNK, CERS TANK	0.25	No	1	No
DELISTED HAZ, LUR, HLUR, DEED, VCP	0.5	No	2	No
CLEANUP SITES, DELISTED CLEANUP	0.5	No	0	
CERS HAZ	0.125	No	0	
DELISTED CTNK, HIST TANK	0.25	No	0	
TRIBAL LISTINGS	0.25-0.5	No	0	
DELISTED COUNTY, CUPA	0.25	No	2	No
EMISSIONS	0.25	No	0	
Additional State & Federal Listings	PO-1	No	3	No

The Subject Property was not identified in the database. The ERIS database identified two RCRA NON GEN, one ENVIROSTOR, one SWF/LF, one CERS TANK, one LUR, one VCP, one DELISTED COUNTY, one CUPA, one ALT FUELS, one TOXIC PITS, and one HAZ GEN located within the prescribed search radii. Based on review of regulatory documentation, off-site location, and/or estimated direction of groundwater flow, these facilities do not represent an environmental condition or concern.

4.2 Additional Environmental Record Sources

4.2.1 County Recorder/ Assessor

According to the Kings County Recorder's Office, no environmentally related liens or deed restrictions have been recorded against the Subject Property.

4.2.2 Fire Officials

Records from the City of Hanford Fire Department were reviewed for evidence indicating the presence of underground storage tanks and for the use of hazardous substances. No record was found for the Subject Property.

4.2.3 Building Department

Records from the City of Hanford Building and Planning Department were reviewed for evidence indicating the developmental history of the Subject Property, and for the presence of documentation relative to underground storage tanks. No records indicative of the current or past presence of USTs were noted.

4.2.4 Other Agencies

Paul Humphrey, EP's July 26, 2024, review of SWRCB Geotracker records of the leaking underground fuel tank (LUFT) database indicated that no record of LUFTs are on file with the RWQCB for the Subject Property.

Paul Humphrey, EP's July 26, 2024, review of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) Envirostor California cleanup sites database available via the DTSC Internet Website indicated that no records of cleanup sites are on file with the DTSC for the Subject Property.

4.3 Physical Setting Sources

4.3.1 Topography

The USGS, Remnoy, California Quadrangle 7.5 minute series topographic map was reviewed for this ESA. The Remnoy, California Quadrangle map was published by the USGS in 1954. According to the contour lines on the topographic map, the elevation of the Subject Property is approximately 250 feet above mean sea level (MSL). The contour lines in the area of the Subject Property indicate the area is sloping gently to the west southwest. The Subject Property is depicted as having no structures or improvements.

4.3.2 Soils/Geology

The Subject Property is located within the Great Valley geomorphic province, a long structural trough situated between the Sierra Nevada Mountains to the east, the Coast Range Mountains to the west and Tehachapi Mountains to the south. In the Hanford area, the sediments consist of recent and older alluvium derived primarily from the Sierra Nevada Mountains. Older (Pleistocene) alluvium unconformably overlies Pliocene-Pleistocene continental and marine deposits. The valley basement, consisting of pre-Tertiary granitic and metamorphic rocks, underlies the clastic section at a depth in excess of 2,000 feet below ground surface. Shallow soil stratigraphy in the Kings County area is primarily sandy soils and sand-silt combination soils.

4.3.3 Hydrology

The site is located in the San Joaquin Valley groundwater basin, which is part of the San Joaquin Basin Hydrologic Study Area (HSA). Twenty-six ground-water basins and areas of

potential groundwater storage have been identified in the San Joaquin Basin HSA. The HSA is bounded by the Sacramento-San Joaquin Delta to the north, the Sierra Nevada to the east, the Tehachapi Mountains to the south, and the Coastal Ranges to the west. Groundwater in the vicinity of the site is found within the Central Valley regional aquifer system, an unconfined to semi-confined aquifer system within the older alluvium and deeper continental deposits. According to the Lines of Equal Elevation of Water in Wells Map, Spring 2018, from the Department of Water Resources, groundwater in the vicinity of the subject site was at a depth of approximately 90 to 100 feet below ground surface and flows to the southwest.

No settling ponds, surface impoundments, wetlands or natural catchbasins were observed at the Subject Property during this investigation.

4.3.4 Flood Zone Information

A review of the Flood Insurance Rate Maps, published by the Federal Emergency Management Agency, was performed. According to Panel Number 06031C0205C, dated June 16, 2009, the Subject Property is located in Flood Zone .

4.3.5 Oil and Gas Exploration

The on-site reconnaissance addressed oil and gas exploration at the Subject Property. According to the California Department of Conservation Geologic Energy Management, no operating or abandoned oil or gas wells are on or adjacent to the Subject Property.

4.3.6 Vapor Encroachment

A Tier 1 Vapor Encroachment Screen (VES) pursuant to ASTM E2600-10 was performed as part of this assessment to determine whether a potential *vapor encroachment condition* (VEC) exists at the Subject Property. The VES included the review of reasonably ascertainable information for the Subject Property and nearby properties. During the course of this assessment, a reasonable probability was not identified to indicate that a VEC exists at the Subject Property.

4.4 Historical Use Information: Subject Property and Adjoining Properties

Based on available historical documentation, the Subject Property consisted of agricultural and range land with a small outbuilding from at least 1934 up to the mid 1950s, agricultural land with a small outbuilding in the 1960s, and entirely agricultural land since at least the mid-1970s.

The adjoining properties consisted of agricultural land, range land, and a rural residence with outbuildings by 1934, with increasing use as agricultural land and rural residences by the mid-1950s. Single-family residential use of a portion of the west adjoining property began by the mid-2000s and development of a park and school by 2009 and 2010.

4.4.1 Aerial Photographs

Available aerial photographs dated 1934, 1942, 1950, 1954, 1967, 1974, 1984, 1986, 1994, 2003, 2004, 2005, 2006, 2009, 2010, 2012, 2014, 2016, 2018, 2020, and 2021, from ERIS were reviewed for this ESA. Copies of selected photographs are included in Appendix B-1 of this report. The photographs are discussed below:

Date: 1934
Scale: 1" = 500'
Photo ID: Fairfield
Description: This photograph depicts the Subject Property as mostly agricultural land with a small area of range land on the northeast portion of the site. An outbuilding or possible barn is located on the southeast area of the site and appears to be associated with the southeast adjoining rural residence. The north adjoining property appears as range land. The east adjoining property appears as agricultural and range land. The south adjoining property appears as a roadway followed by range land. The west adjoining property appears as agricultural and range land.

Date: 1942
Scale: 1" = 500'
Photo ID: ASCS
Description: This photograph depicts the Subject Property and the east, southeast, south, and west adjoining properties as in the 1934 photograph. The north adjoining property appears as a roadway followed by agricultural and range land.

Date: 1950
Scale: 1" = 500'
Photo ID: ASCS
Description: This photograph depicts the Subject Property similar to the 1942 photograph. A possible corral is present on the central southeast area of the site. The east, southeast, south, and west adjoining property appears as in the 1942 photograph. The north adjoining property appears as agricultural land.

Date: 1954
Scale: 1" = 500'
Photo ID: AMS
Description: This photograph depicts the Subject Property and the adjoining properties as in the 1954 photograph.

Date: 1967
Scale: 1" = 500'
Photo ID: ASCS
Description: This photograph depicts the Subject Property as agricultural land with an outbuilding or possible barn located on the southeast area of the site which appears to be associated with the southeast adjoining rural residence. The north adjoining property appears as agricultural land with a rural residence. The east and west adjoining property appears as agricultural land. The south adjoining property appears as a roadway followed by agricultural land and a rural residence.

Date:	1974
Scale:	1" = 500'
Photo ID:	USGS
Description:	This photograph depicts the Subject Property and the adjoining properties as in the 1967 photograph.
Date:	1984
Scale:	1" = 500'
Photo ID:	USGS
Description:	This photograph depicts the Subject Property as agricultural land. The adjoining properties appear as in the 1974 photograph.
Date:	1986
Scale:	1" = 500'
Photo ID:	USGS
Description:	This photograph depicts the Subject Property and adjoining properties as in the 1984 photograph.
Date:	1994
Scale:	1" = 500'
Photo ID:	USGS
Description:	This photograph depicts the Subject Property as agricultural land. The north adjoining property appears as agricultural land and a rural residence with outbuildings. The east and west adjoining properties appear as agricultural land. The southeast adjoining property appears as a rural residence with outbuildings. The south adjoining property appears as a roadway followed by agricultural land and a rural residence.
Date:	2003, 2004, 2005,
Scale:	1" = 500'
Photo ID:	USDA
Description:	These photographs depict the Subject Property Subject Property and the adjoining properties as in the 1994 photograph.
Date:	2006
Scale:	1" = 500'
Photo ID:	USDA
Description:	This photograph depicts the Subject Property and the north, east, southeast, and south adjoining properties as in the 2003, 2004, and 2005 photographs. The west adjoining property appears as a roadway followed by vacant land with some areas graded for development.
Date:	2009, 2010, 2012, 2014, 2016
Scale:	1" = 500'
Photo ID:	USDA

Description: These photographs depict the Subject Property and the north, east, southeast, and south adjoining properties as in the 2006 photograph. The west adjoining property appears as a roadway followed by vacant land, a park, and school.

Date: 2018, 2020

Scale: 1" = 500'

Photo ID: USDA

Description: These photographs depict the Subject Property and the north, east, southeast, and south adjoining properties as in the 2009, 2010, 2012, 2014, and 2016 photographs. The west adjoining property appears as a roadway followed by residences, a park, and school.

Date: 2021

Scale: 1" = 500'

Photo ID: MAXAR

Description: This photograph depicts the Subject Property and adjoining properties a in the 2018 and 2020 photographs.

4.4.2 Fire Insurance Maps

Historical Sanborn Fire Insurance maps were reviewed online at <http://www.spl.org/>. Fire insurance maps, which commonly date back to the 1800s, are typically reviewed in order to evaluate whether past usage or construction on the Property or within the near vicinity is environmentally noteworthy. Fire insurance map coverage of the area of the Property was not identified.

4.4.3 City Directories

Historical City directories published by Haines were reviewed at the Fresno County Library in Fresno, California for past names and business that were listed for the Property. The findings are presented in the following table:

YEAR	ON-SITE
1982, 1992, 2001, 2015, 2019	No listing in likely address range of the Subject Property

4.4.4 Historical Topographic Maps

The review of historical topographic maps was not reviewed for this study. Historical use of the Subject Property was researched using other standard historical sources.

4.4.5 Additional Historical Record Sources

Additional historical record sources were not reviewed.

4.4.6 Prior Assessment Reports

No prior reports or relevant documentation in association with the Subject Property were made available to Paul Humphrey, EP during the course of this assessment.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

The Subject Property was inspected by Paul Humphrey on July 26, 2024. The weather at the time of the site visit was clear and approximately 85 degrees.

5.2 General Site Setting

The Subject Property is located within residential and agricultural area located at the northeast corner of Grangeville Boulevard and 9 1/4 Avenue in Hanford, California.

5.3 Exterior Observations

5.3.1 Solid Waste Disposal

Solid waste is not generated on the Subject Property. No indication of potentially hazardous material disposal was noted during the site reconnaissance.

5.3.2 Surface Water Drainage

The Subject Property consists of agricultural land. Drainage appears sufficient as no areas of ponding or standing water were noted during the site visit.

5.3.3 Wells and Cisterns

The Subject Property included one irrigation water well on the north northeast portion of the site along the north boundary. If the well is not to be used, the well should be properly destroyed in accordance with State and local guidelines.

No aboveground evidence of cisterns was observed during the site reconnaissance.

5.3.4 Wastewater

No indications of industrial wastewater disposal or treatment facilities were observed during the onsite reconnaissance.

5.3.5 Additional Site Observations

A pad-mounted utility-owned transformer is located next to the irrigation well on the north northeast portion of the site along the north boundary. Electricity for the transformer of the well appears to be delivered via a buried pipeline along the north boundary which enters the Subject Property near the northwest corner of the site.

5.4 Interior Observations

The Subject Property had no buildings or structures.

5.5 Potential Environmental Conditions

5.5.1 Hazardous Substances and Petroleum Products Used or Stored at the Site

No evidence of the use of hazardous materials was observed on the Subject Property.

5.5.1.1 Unlabeled Containers and Drums

No unlabeled containers or drums were observed during the site reconnaissance.

5.5.1.2 Disposal Locations of Regulated/ Hazardous Waste

No obvious indications of hazardous waste disposal were observed on the Subject Property or were indicated during interviews.

5.5.2 Evidence of Releases

No obvious indications of hazardous material or petroleum product releases, such as stained areas or stressed vegetation, were observed during the site reconnaissance or reported during interviews.

5.5.3 Polychlorinated Biphenyls (PCBs)

Older transformers and other electrical equipment could contain polychlorinated biphenyls (PCBs) at a level that subjects them to regulation by the U.S. EPA. PCBs in electrical equipment are controlled by United States Environmental Protection Agency regulations 40 CFR, Part 761. Under the regulations, there are three categories into which electrical equipment can be classified:

- Less than 50 parts per million (PPM) of PCBs – *“Non-PCB” transformer*
- 50 ppm-500 ppm – *“PCB-Contaminated” electrical equipment*
- Greater than 500 ppm – *“PCB” transformer*

No potential PCB-containing equipment such as transformers, oil-filled switches, hoists, lifts, dock levelers, hydraulic elevators, etc., is present.

5.5.4 Landfills

No evidence of on-site landfilling was observed or reported during the site reconnaissance.

5.5.5 Pits, Ponds, Lagoons, Sumps, and Catch Basins

No evidence of on-site pits, ponds, lagoons, sumps or catch basins was observed or reported during the site reconnaissance.

5.5.6 On-Site ASTs and USTs

No evidence of ASTs or USTs was observed during the Subject Property reconnaissance or reported during interviews.

5.5.7 Radiological Hazards

No radiological substances or equipment were observed or reported stored on the subject site.

5.5.8 Drinking Water

Drinking water is not provided or supplied to the Subject Property.

5.5.9 Additional Hazard Observations

No additional hazards were observed on the site.

5.5.10 Asbestos-Containing Materials (ACM)

An evaluation of ACM was not included in the scope of services and was not conducted.

5.5.11 Radon

The US EPA has prepared a map to assist National, State, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, Zone 1 being those areas with the average predicted indoor radon concentration in residential dwellings exceeding the EPA Action limit of 4.0 picoCuries per Liter (pCi/L). It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the EPA recommends site specific testing in order to determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures. Review of the EPA Map of Radon Zones places the Subject Property in Zone 2, where average predicted radon levels are between 2.0 and 4.0 pCi/L.

5.5.12 Lead-Based Paint

An evaluation of lead-based paint was not included in the scope of services and was not conducted.

5.5.13 Mold Evaluation

A mold evaluation was not included in the scope of services and was not conducted.

6.0 INTERVIEWS

6.1 Interview with Owner

The representative of the owner of the Subject Property parcels was identified as Eddie Warmerdam. Mr. Warmerdam was not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Subject Property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Subject Property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products. Mr. Warmerdam indicated that his family has owned the north Subject Property since the late 1980s and have leased farmed the south Subject Property parcel most of that time and use has always been farmed land.

6.2 Interview with Site Manager

See Section 6.1 Above.

6.3 Interview with Occupants

The Subject Property is not occupied.

6.4 Interview with Local Government Officials

An interview was conducted with the Kings County Environmental Health Department (KCEHD). According to KCEHD staff, no records were identified for the Subject Property.

An interview was conducted with a clerk at the Hanford Planning and Development Department. According to the clerk, no records of environmental concern were identified for the Subject Property.

An interview was conducted with the City of Hanford Fire Department (CHFD). According to CHFD staff, no records were identified for the Subject Property.

6.5 Interview with Others

Additional interviews were not conducted.

7.0 FINDINGS AND CONCLUSIONS

7.1 Findings

7.1.1 On-Site Environmental Conditions

No on-site recognized environmental conditions were identified during the course of this assessment.

7.1.2 Off-Site Environmental Conditions

No off-site RECs were identified that were considered likely to impact the Subject Property.

7.1.3 Controlled Recognized Environmental Conditions

No on-site CRECs were identified during the course of this assessment.

7.1.4 Historical Recognized Environmental Conditions

No on-site HRECs were identified during the course of this assessment.

7.1.5 De Minimis Environmental Conditions

No *de minimis* environmental conditions were identified in connection with the Subject Property during the course of this assessment.

7.2 Opinion

Based on our professional opinion, no recognized environmental conditions in connection with the Subject Property were identified during the course of this assessment.

7.3 Conclusions

Paul Humphrey, EP has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-21 of the property identified as APNs 014-143-069 & 014-143-078, Hanford, California, the Subject Property. Any exceptions to or deletions from this practice are described in Section 1.4 of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the Property.

Paul Humphrey, EP's investigation has revealed the following BERs associated with the Subject Property or nearby properties:

- The Subject Property is currently and was historically used for agricultural purposes. There is a potential that agricultural related chemicals such as pesticides, herbicides, and fertilizers, may have been used onsite. Based on Paul Humphrey, EP's experience, during previous site development activities, near surface soils (where residual agricultural chemical concentrations would have most likely been present, if at all) are likely generally mixed with fill material or disturbed during grading. Also, it is common that

engineered fill material is placed over underlying soils as part of site development activities. These additional variables serve to further reduce the potential for exposure to residual agricultural chemicals (if any). Based on these reasons, Paul Humphrey, EP concludes that the possible use of agricultural chemicals is not expected to represent a significant environmental concern. If redevelopment activities for residential use are planned, it should be determined whether sampling relating to the former agricultural use is required by the local planning department or other applicable oversight agency.

- The Subject Property included one irrigation water well on the north northeast portion of the site along the north boundary. If the well is not to be used, the well should be properly destroyed in accordance with State and local guidelines.

7.4 Recommendations

Based on the information available at the time of this assessment, Paul Humphrey, EP does not recommend further investigation of the Subject Property at this time.

7.5 Deviations

This Phase I ESA substantially complies with the scope of services and ASTM 1527-21 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), as amended, except for exceptions and/or limiting conditions as discussed in Section 1.4.

8.0 REFERENCES

Reports, Plans, and Other Documents Reviewed:

American Society for Testing and Materials, *Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*, ASTM Designation: E2600

American Society for Testing and Materials, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation: E1527-13

American Society for Testing and Materials, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation: E1527-21

ERIS, Aerial Photograph Report, NEC Grangeville Blvd and 9 1/4 Avenue, Hanford, California, Job number 24-89

ERIS, Radius Database Report, NEC Grangeville Blvd and 9 1/4 Avenue, Hanford, California, Job number 24-89

State of California Department of Conservation Geologic Energy Management web page, <https://maps.conservation.ca.gov/oilgas/>

State of California Department of Water Resources Division of Planning and Local Assistance, Groundwater Level Data Retrieval Map Interface web page, <http://well.water.ca.gov/map/map.html>

United States Department of Agriculture, Soil Conservation Service Soil Survey Kings County, California, 1986

US Environmental Protection Agency, Map of Radon Zones web page, <http://www.epa.gov/iaq/radon/zonemap.html>

US Environmental Protection Agency, Office of Water web page, <http://www.epa.gov/ogwdw000/swp/ssa/ssahome.html>

U.S. Geological Survey, Remnoy, California Topographic Quadrangle, 1954

Agencies Contacted:

City of Hanford Building and Planning Department

City of Hanford Fire Department

Kings County Assessor's Office

Kings County Department of Environmental Health

9.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

I declare that, to the best of my professional knowledge and belief, I have met the definition of *Environmental professional* as defined in §312.10 of 40 CFR 312” and have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

A handwritten signature in black ink, appearing to read "Paul J. Humphrey". The signature is fluid and cursive, with a large, stylized initial "P".

Paul Humphrey, EP
Environmental Professional

10.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

10.1 Definition of an Environmental Professional

An Environmental Professional means: (1) a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases (see § 312.1(c)) on, at, in, or to a property, sufficient to meet the objectives and performance factors in §§ 312.20(e) and (t). (2) Such a person must: (i) hold a current Professional Engineer's or Professional Geologist's license or registration from a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) and have the equivalent of three (3) years of full-time relevant experience; or (ii) be licensed or certified by the federal government, a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) to perform environmental inquiries as defined in § 312.21 and have the equivalent of three (3) years of full-time relevant experience; or (iii) have a Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the equivalent of five (5) years of full-time relevant experience; or (iv) have the equivalent of ten (10) years of full-time relevant experience. (3) An environmental professional should remain current in his or her field through participation in continuing education or other activities. (4) The definition of environmental professional provided above does not preempt state professional licensing or registration requirements such as those for a professional geologist, engineer, or site remediation professional. Before commencing work, a person should determine the applicability of state professional licensing or registration laws to the activities to be undertaken as part of the inquiry identified in § 312.21(b). (5) A person who does not qualify as an environmental professional under the foregoing definition may assist in the conduct of all appropriate inquiries in accordance with this part if such person is under the supervision or responsible charge of a person meeting the definition of an environmental professional provided above when conducting such activities.

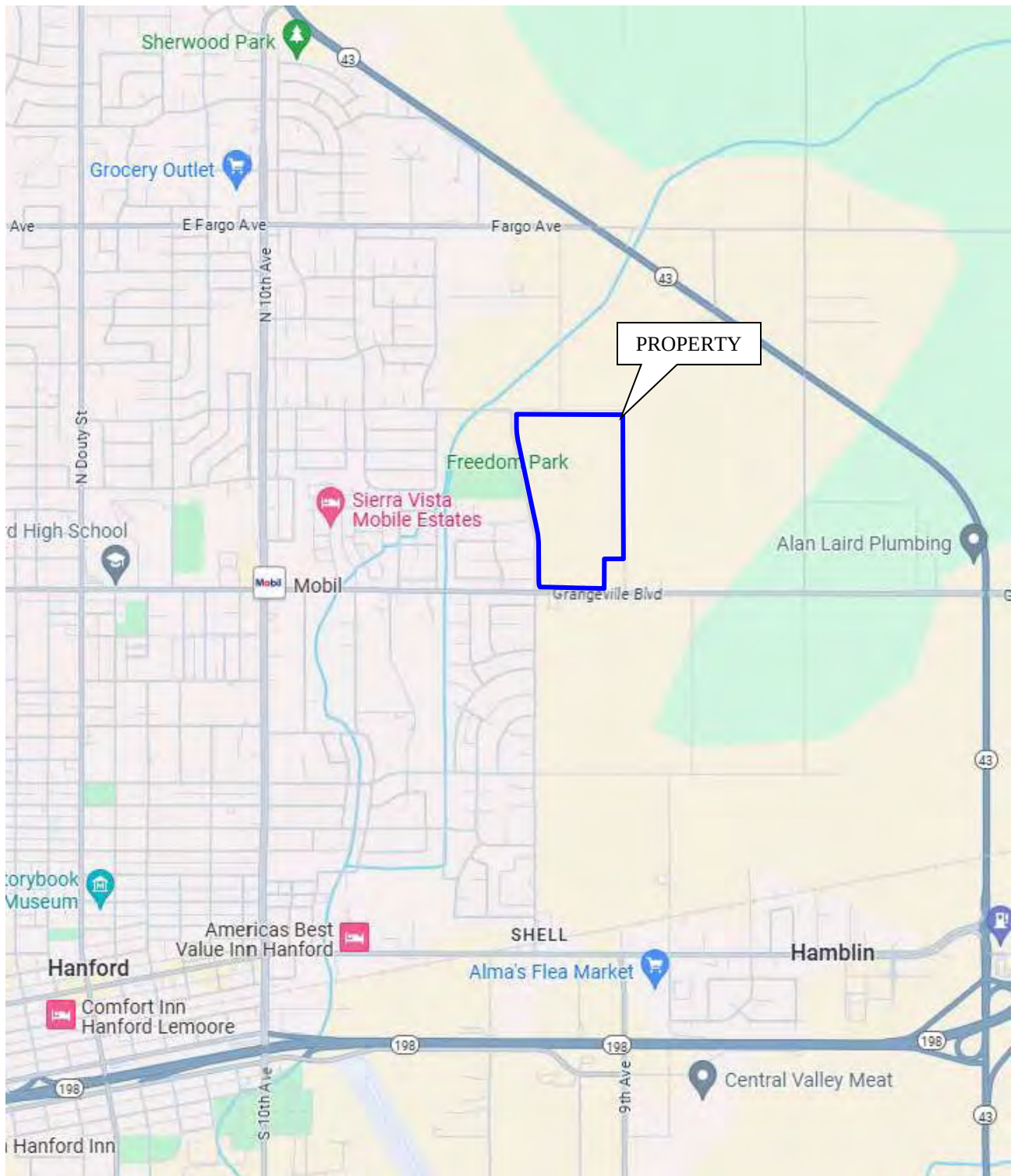
10.2 Relevant Experience

Relevant experience, as used in the definition of environmental professional in this section, means: participation in the performance of all appropriate inquiries investigations, environmental site assessments, or other site investigations that may include environmental analyses, investigations, and remediation which involve the understanding of surface and subsurface environmental conditions and the processes used to evaluate these conditions and for which professional judgment was used to develop opinions regarding conditions indicative of releases or threatened releases (see § 312.1(c)) to the subject property.

Resumes for the Environmental Professionals involved in this project are included in Appendix G.

FIGURES

**SITE LOCATION MAP
SITE PLAN
SITE TOPOGRAPHIC MAP**

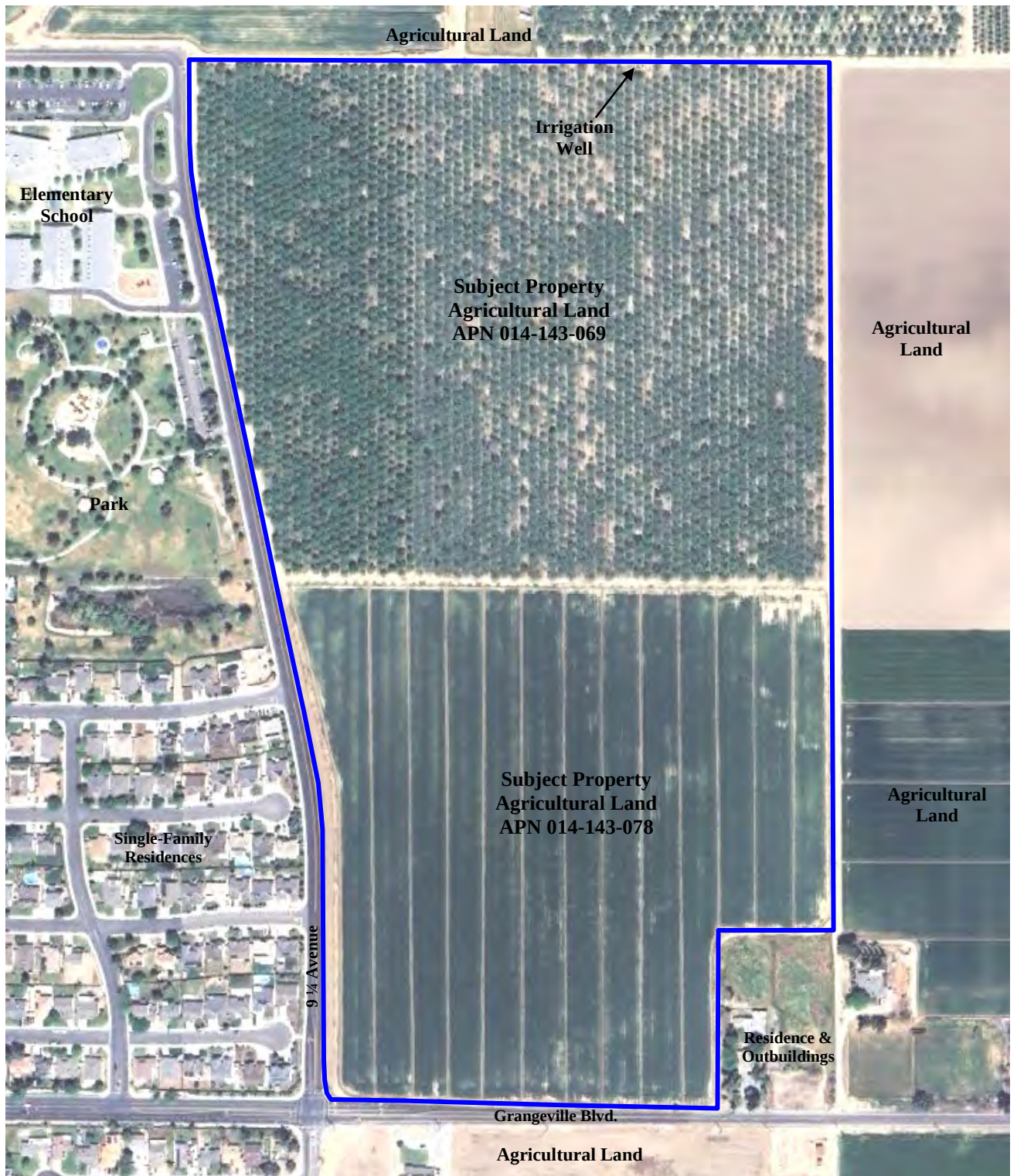


SITE VICINITY MAP

↑ NORTH

PAUL HUMPHREY, EP
7402 E. CLINTON AVENUE
FRESNO, CA 93737
(559) 977-9813

Site: Proposed Development
 Site Address: APNs 014-143-069 & 014-143-078
 Hanford, CA
 Project Number: 24-89

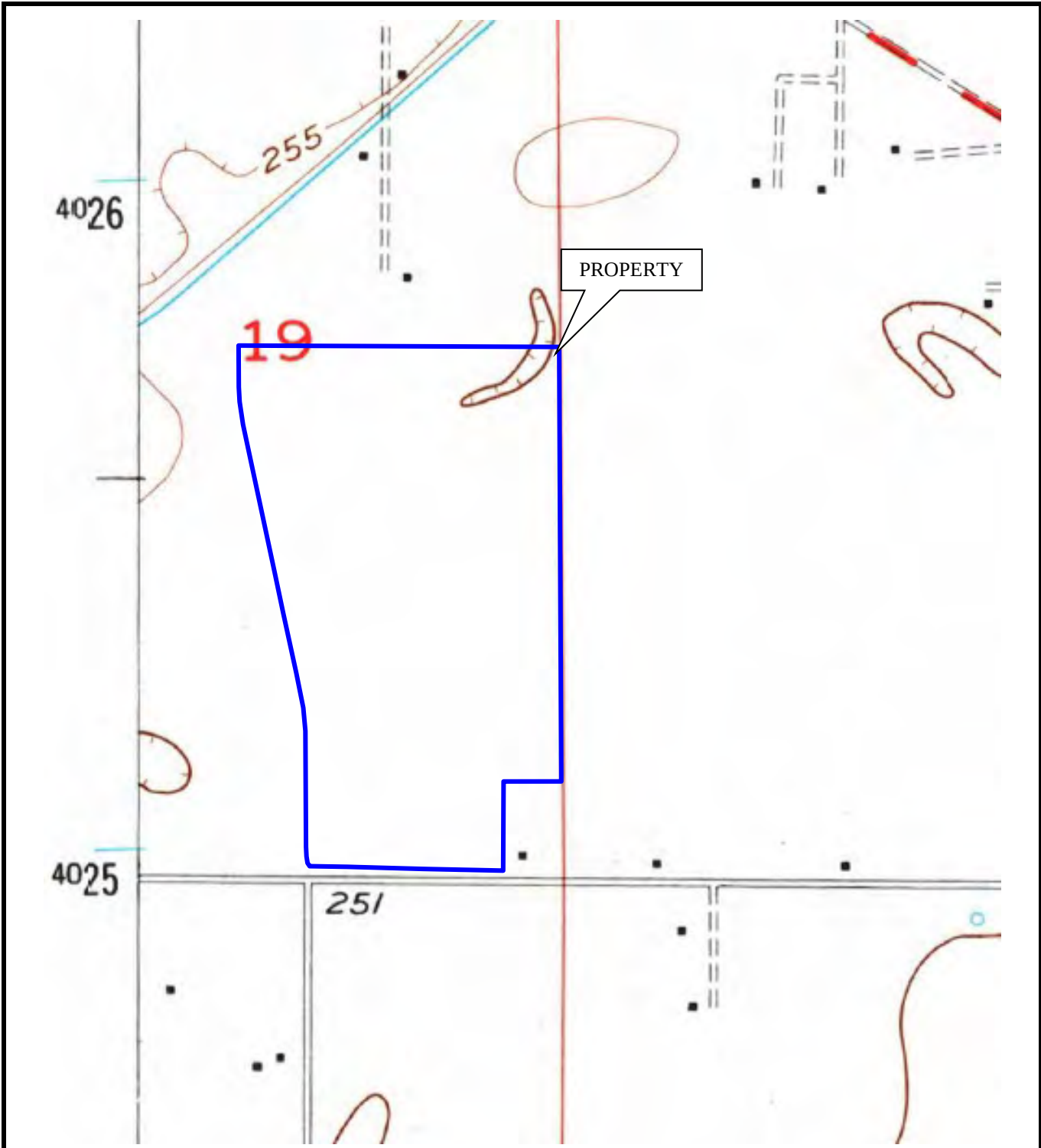


SITE PLAN

↑ NORTH
Not to scale

PAUL HUMPHREY, EP
7402 E. CLINTON AVENUE
FRESNO, CA 93737
(559) 977-9813

Site: Proposed Development
Site Address: APNs 014-143-069 & 014-143-078
Hanford, CA
Project Number: 24-89



PAUL HUMPHREY, EP
7402 E. CLINTON AVENUE
FRESNO, CA 93737
(559) 977-9813

TOPOGRAPHIC MAP

Source: U.S.G.S. 7.5 Minute Topographic Map
Remnoy, CA, Quadrangle, 1954



N

APPENDIX A

SITE PHOTOGRAPHS



1. Southwest area of Subject Property.



2. Northwest portion of Subject Property.



3. Central area of Subject Property from west boundary.



4. Transformer, irrigation well, and standpipe on north portion of Subject Property.



5. Northeast area of Subject Property.



6. Central area of Subject Property from east boundary.



7. Southeast area of Subject Property.



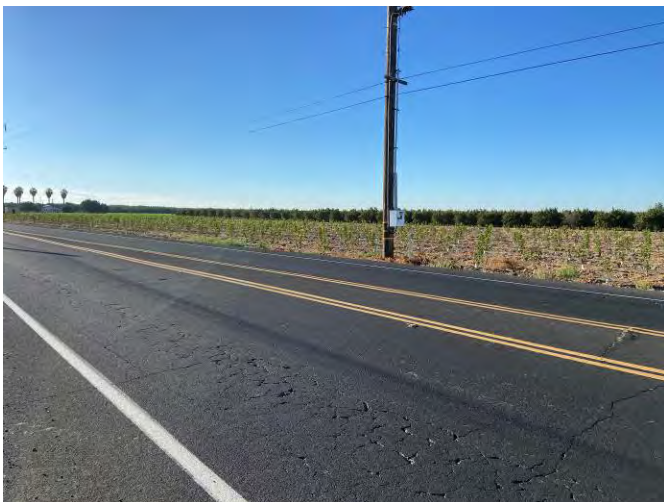
8. North adjoining agricultural land and residences.



9. East adjoining agricultural land.



10. Southeast adjoining residence and vacant land area.



11. View across Grangeville Blvd of south adjoining agricultural land.



12. View across 9 1/8 Avenue of west adjoining residences.

APPENDIX B

HISTORICAL RESEARCH DOCUMENTATION

EXHIBIT B-1

AERIAL PHOTOGRAPHS



HISTORICAL AERIALS

Project Property: Copper Ridge
NEC Grangeville Blvd and 9 1/4 Ave.
California 93230 CA 93230

Project No: 24-89

Requested By: Paul Humphrey, REPA

Order No: 24071600420

Date Completed: July 18, 2024

Aerial Maps included in this report are produced by the sources listed above and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property. ERIS provides no warranty of accuracy or liability. The information contained in this report has been produced using aerial photos listed in above sources by ERIS Information Inc. (in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS'. The maps contained in this report do not purport to be and do not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Environmental Risk Information Services

A division of Glacier Media Inc.

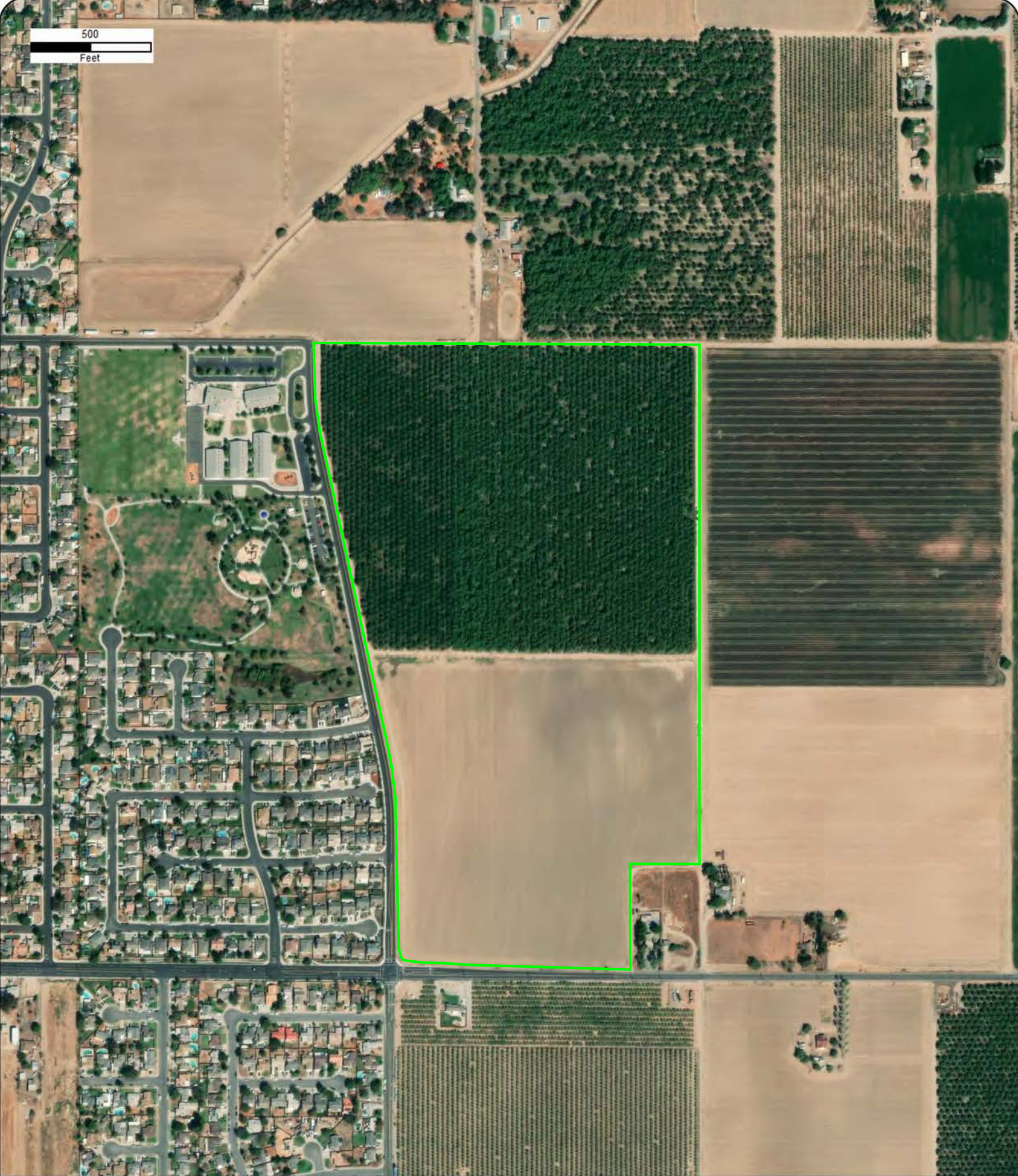
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Date	Source	Scale	Comments
2021	Maxar Technologies	1" = 500'	
2020	United States Department of Agriculture	1" = 500'	
2018	United States Department of Agriculture	1" = 500'	
2016	United States Department of Agriculture	1" = 500'	
2014	United States Department of Agriculture	1" = 500'	
2012	United States Department of Agriculture	1" = 500'	
2010	United States Department of Agriculture	1" = 500'	
2009	United States Department of Agriculture	1" = 500'	
2006	United States Department of Agriculture	1" = 500'	
2005	United States Department of Agriculture	1" = 500'	
2004	United States Department of Agriculture	1" = 500'	
2003	United States Department of Agriculture	1" = 500'	
1994	United States Geological Survey	1" = 500'	
1986	United States Geological Survey	1" = 500'	
1984	United States Geological Survey	1" = 500'	
1974	United States Geological Survey	1" = 500'	
1967	Agricultural Stabilization & Conserv. Service	1" = 500'	
1954	Army Mapping Service	1" = 500'	
1950	Agricultural Stabilization & Conserv. Service	1" = 500'	
1942	Agricultural Stabilization & Conserv. Service	1" = 500'	
1934	Fairchild	1" = 500'	

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com



Year: 2021
Source: MAXAR
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

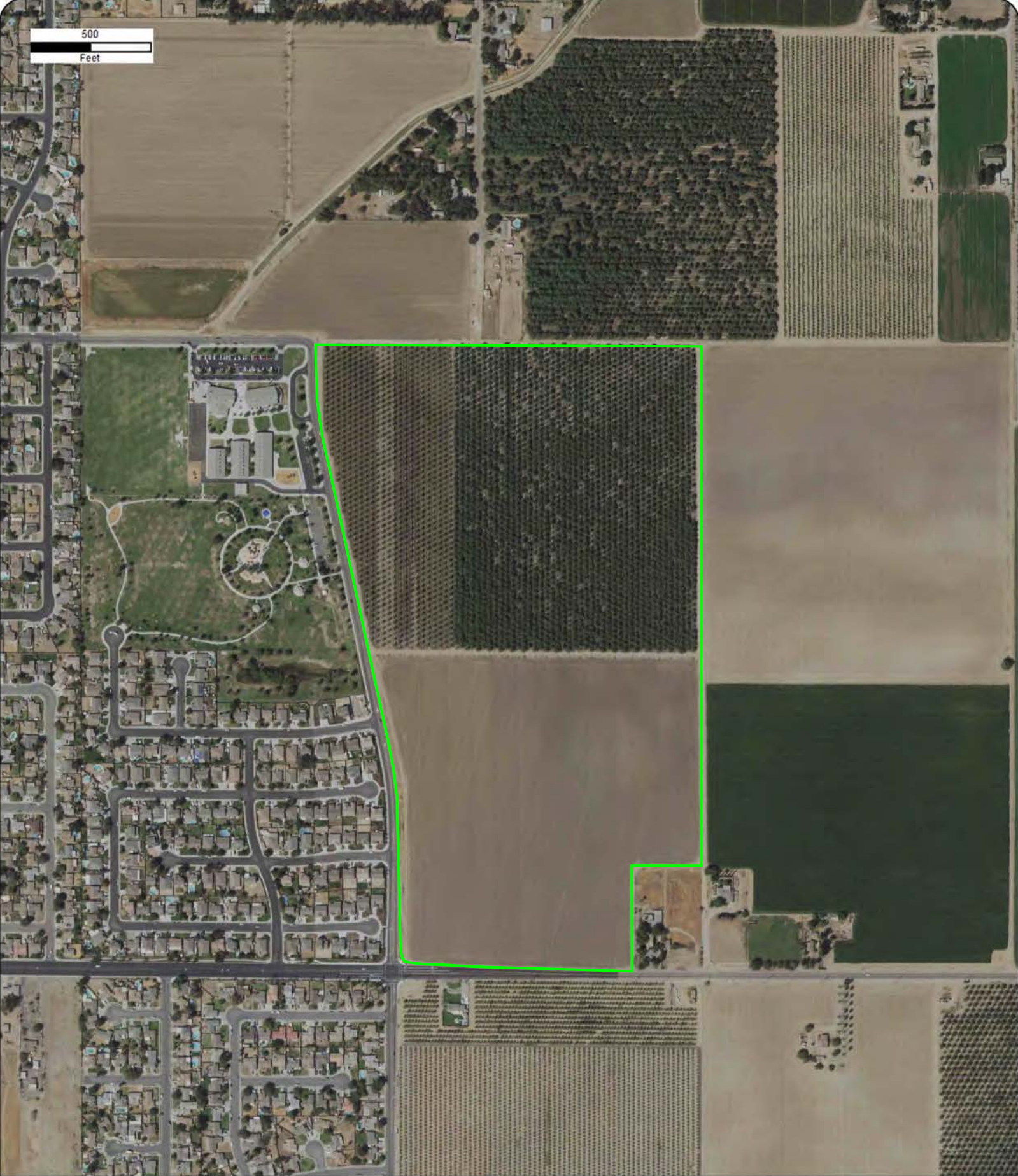
Order No: 24071600420



Year: 2020
Source: USDA
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420



Year: 2018
Source: USDA
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

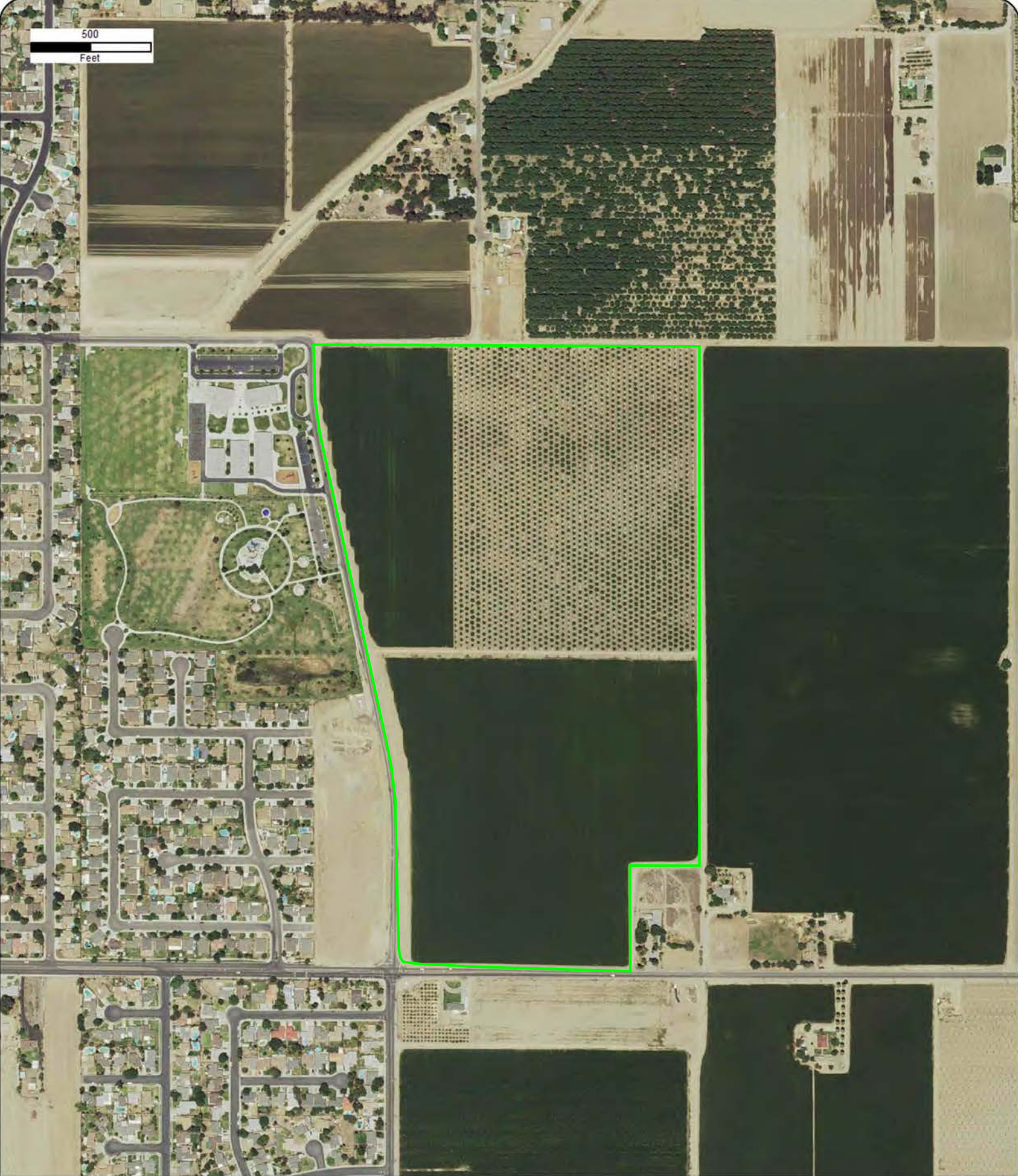
Order No: 24071600420



Year: 2016
Source: USDA
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420



Year: 2014
Source: USDA
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

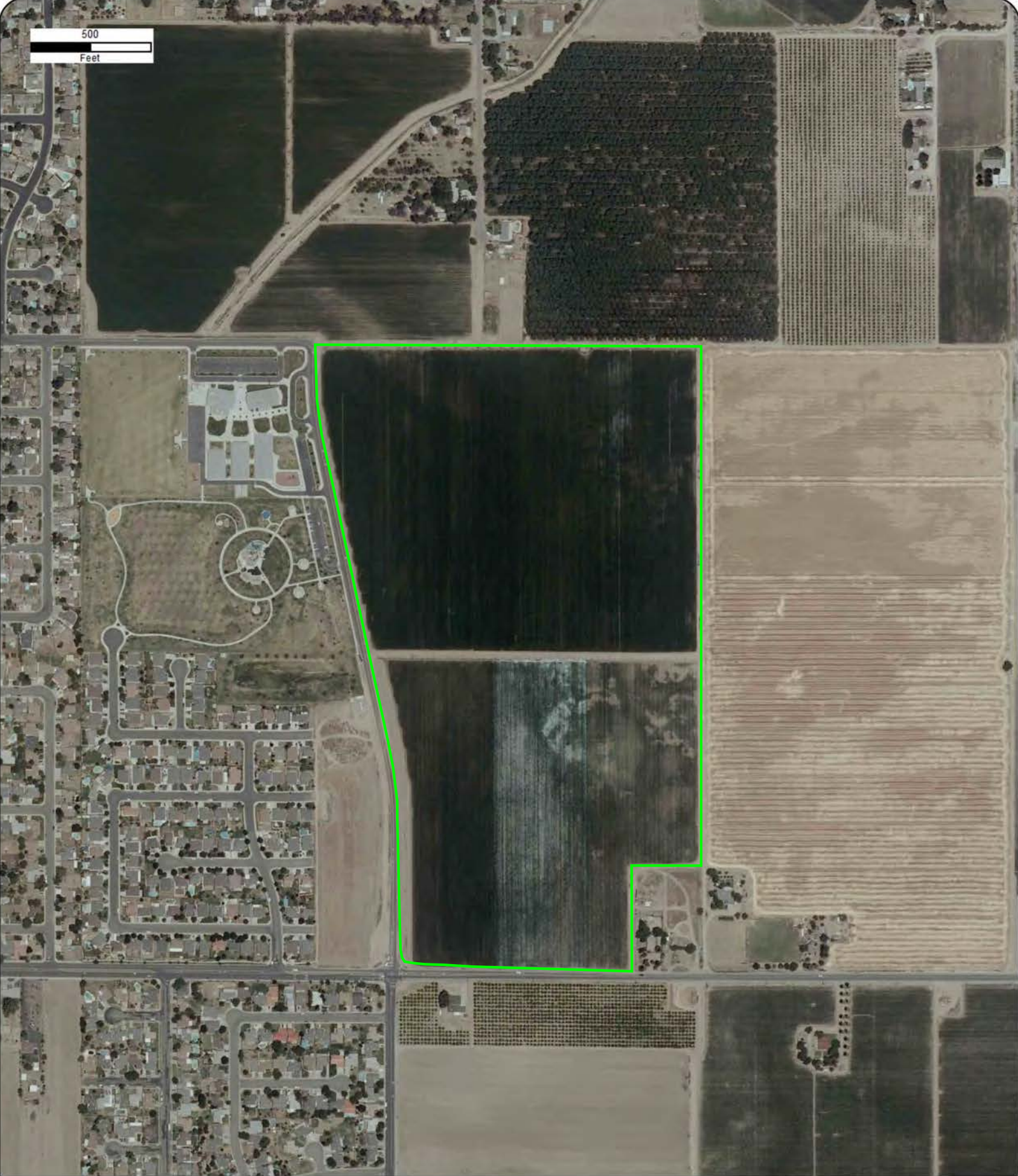


Year: 2012
Source: USDA
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

500
Feet



Year: 2010
Source: USDA
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420



Year: 2009
Source: USDA
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

500
Feet



Year: 2006
Source: USDA
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

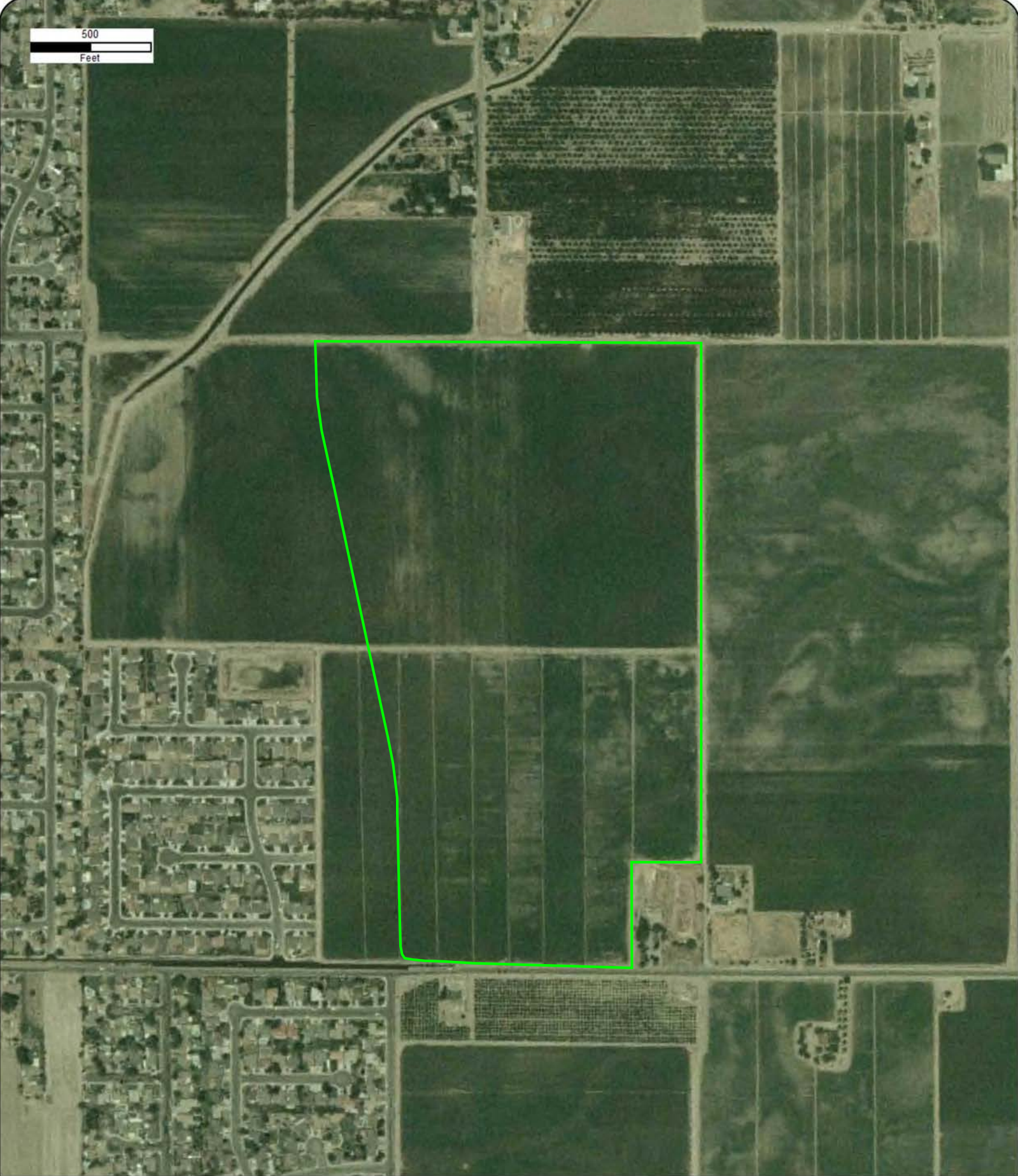


Year: 2005
Source: USDA
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

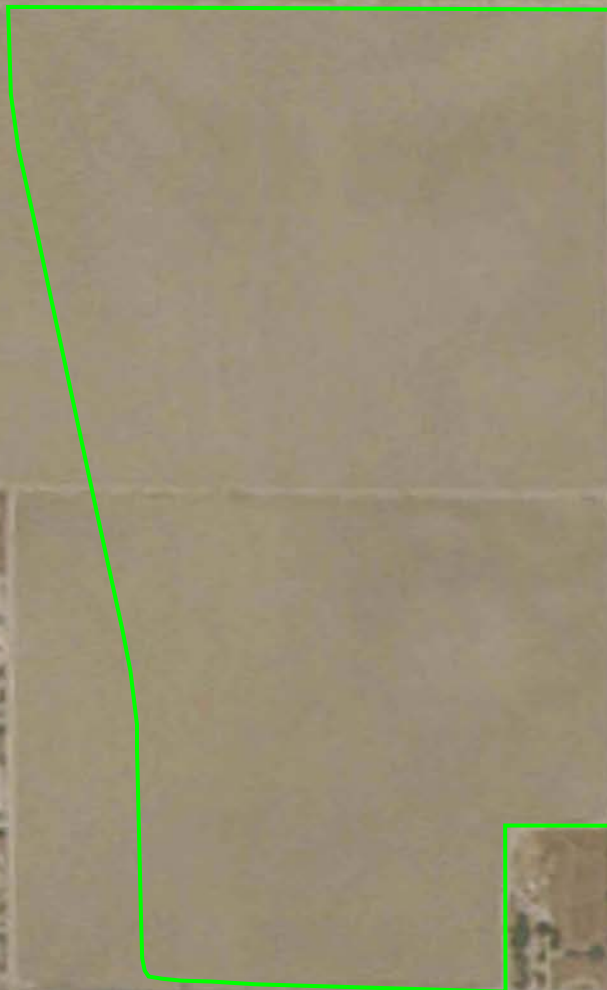
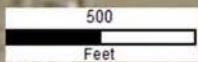
500
Feet



Year: 2004
Source: USDA
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

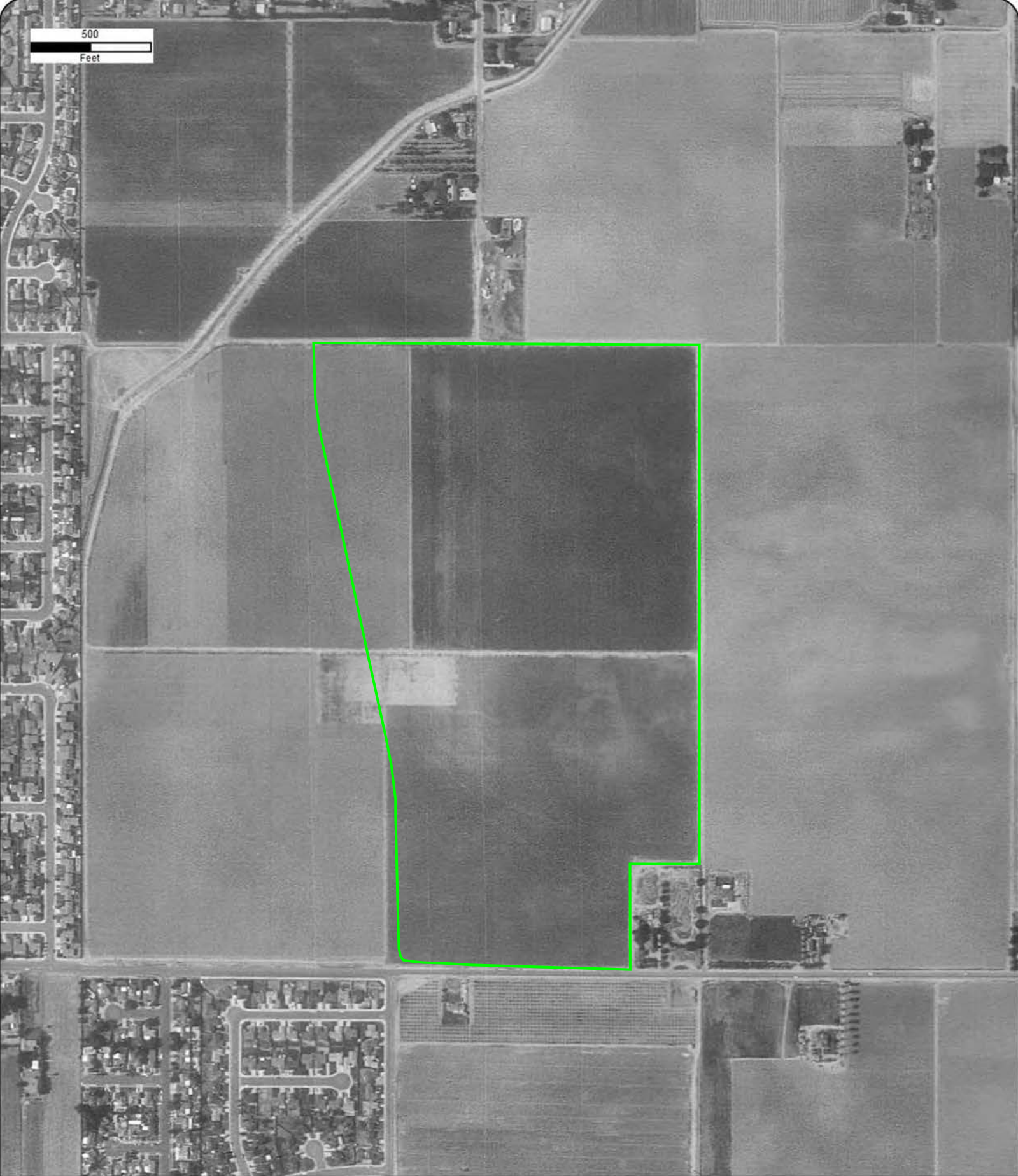
Order No: 24071600420



Year: 2003
Source: USDA
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420



Year: 1994
Source: USGS
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

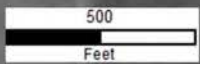
500
Feet



Year: 1986
Source: USGS
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

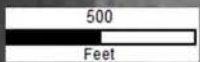
Order No: 24071600420



Year: 1984
Source: USGS
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420



Year: 1974
Source: USGS
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

500
Feet

296

85
119

425

96.1

GRANGE

Year: 1967
Source: ASCS
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

500
Feet



Year: 1954
Source: AMS
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

500
Feet



Year: 1950
Source: ASCS
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

500
Feet



Year: 1942
Source: ASCS
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

500
Feet



Year: 1934
Source: FAIRCHILD
Scale: 1" = 500'
Comment:

Address: NEC Grangeville Blvd and 9 1/4 Ave.,
California 93230, CA
Approx Center: -119.62150679,36.3465561

Order No: 24071600420

APPENDIX C

REGULATORY RECORDS DOCUMENTATION

EXHIBIT C-1

MAPPED DATABASE REPORT



DATABASE REPORT

Project Property: *Copper Ridge
NEC Grangeville Blvd and 9 1/4 Ave.
California 93230 CA 93230*

Project No: *24-89*

Report Type: *Database Report*

Order No: *24071600420*

Requested by: *Paul Humphrey, REPA*

Date Completed: *July 18, 2024*

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	9
Executive Summary: Site Report Summary - Surrounding Properties.....	10
Executive Summary: Summary by Data Source.....	11
Map.....	14
Aerial.....	17
Topographic Map.....	18
Detail Report.....	19
Unplottable Summary.....	32
Unplottable Report.....	33
Appendix: Database Descriptions.....	34
Definitions.....	53

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Inc. ("ERIS") using various sources of information, including information provided by Federal and State government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report (s) are protected by copyright owned by ERIS Information Inc. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

Executive Summary

Property Information:

Project Property: *Copper Ridge
NEC Grangeville Blvd and 9 1/4 Ave. California 93230 CA 93230*

Project No: *24-89*

Coordinates:

Latitude:	<i>36.3465561</i>
Longitude:	<i>-119.62150679</i>
UTM Northing:	<i>4,025,578.71</i>
UTM Easting:	<i>264,743.26</i>
UTM Zone:	<i>11S</i>

Elevation: *256 FT*

Order Information:

Order No: *24071600420*

Date Requested: *July 16, 2024*

Requested by: *Paul Humphrey, REPA*

Report Type: *Database Report*

Historicals/Products:

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
<u>Standard Environmental Records</u>								
Federal								
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	2	-	-	2
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DELISTED FRP	Y	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
DOE FUSRAP	Y	1	0	0	0	0	0	0

State

RESPONSE	Y	1	0	0	0	0	0	0
ENVIROSTOR	Y	1	0	0	0	1	0	1
DELISTED ENVS	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	1	1
SWRCB SWF	Y	0.5	0	0	0	0	-	0
WMUD	Y	0.5	0	0	0	0	-	0
HWP	Y	1	0	0	0	0	0	0
SWAT	Y	0.5	0	0	0	0	-	0
C&D DEBRIS RECY	Y	0.5	0	0	0	0	-	0
RECYCLING	Y	0.5	0	0	0	0	-	0
PROCESSORS	Y	0.5	0	0	0	0	-	0
CONTAINER RECY	Y	0.5	0	0	0	0	-	0
LDS	Y	0.5	0	0	0	0	-	0
LUST	Y	0.5	0	0	0	0	-	0
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	0	0	-	-	0
UST CLOSURE	Y	0.5	0	0	0	0	-	0
HHSS	Y	0.25	0	0	0	-	-	0
UST SWEEPS	Y	0.25	0	0	0	-	-	0
AST	Y	0.25	0	0	0	-	-	0
AST SWRCB	Y	0.25	0	0	0	-	-	0
TANK OIL GAS	Y	0.25	0	0	0	-	-	0
DELISTED TNK	Y	0.25	0	0	0	-	-	0
CERS TANK	Y	0.25	0	0	1	-	-	1
DELISTED CTNK	Y	0.25	0	0	0	-	-	0
HIST TANK	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
LUR	Y	0.5	0	0	0	1	-	1
CALSITES	Y	0.5	0	0	0	0	-	0
HLUR	Y	0.5	0	0	0	0	-	0
DEED	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	1	-	1
CLEANUP SITES	Y	0.5	0	0	0	0	-	0
DELISTED CLEANUP	Y	0.5	0	0	0	0	-	0
DELISTED COUNTY	Y	0.25	0	1	0	-	-	1

Tribal

INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED INDIAN LST	Y	0.5	0	0	0	0	-	0
DELISTED INDIAN UST	Y	0.25	0	0	0	-	-	0

County

UST KINGS	Y	0.25	0	0	0	-	-	0
CUPA KINGS	Y	0.25	0	0	1	-	-	1

Additional Environmental Records

Federal

PFAS GHG	Y	0.5	0	0	0	0	-	0
OSC RESPONSE	Y	0.125	0	0	-	-	-	0
FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS FED SITES	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
ERNS PFAS	Y	0.5	0	0	0	0	-	0
PFAS NPDES	Y	0.5	0	0	0	0	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS TSCA	Y	0.5	0	0	0	0	-	0
PFAS E-MANIFEST	Y	0.5	0	0	0	0	-	0
PFAS IND	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FUDS MRS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
LM SITES	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	1	0	-	-	1
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
AFS	Y	PO	0	-	-	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCBT	Y	0.5	0	0	0	0	-	0
PCB	Y	0.5	0	0	0	0	-	0

State

PFAS SAMPLING	Y	0.5	0	0	0	0	-	0
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DRYC GRANT	Y	0.25	0	0	0	-	-	0
PFAS GT CLEANUPS	Y	0.5	0	0	0	0	-	0
PFAS GW	Y	0.5	0	0	0	0	-	0
PFAS INVEST	Y	0.5	0	0	0	0	-	0
HWSS CLEANUP	Y	0.5	0	0	0	0	-	0
TOXIC PITS	Y	1	0	0	0	0	1	1

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DTSC HWF	Y	0.5	0	0	0	0	-	0
INSP COMP ENF	Y	1	0	0	0	0	0	0
SCH	Y	1	0	0	0	0	0	0
CHMIRS	Y	PO	0	-	-	-	-	0
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HAZNET	Y	PO	0	-	-	-	-	0
HAZ GEN	Y	PO	0	1	-	-	-	1
HAZ TSD	Y	0.5	0	0	0	0	-	0
HIST MANIFEST	Y	PO	0	-	-	-	-	0
HW TRANSPORT	Y	0.125	0	0	-	-	-	0
WASTE TIRE	Y	PO	0	-	-	-	-	0
MEDICAL WASTE	Y	0.25	0	0	0	-	-	0
HIST CORTESE	Y	0.5	0	0	0	0	-	0
CDO/CAO	Y	0.5	0	0	0	0	-	0
CERS HAZ	Y	0.125	0	0	-	-	-	0
DELISTED HAZ	Y	0.5	0	0	0	0	-	0
GEOTRACKER	Y	0.125	0	0	-	-	-	0
MINE	Y	1	0	0	0	0	0	0
LIEN	Y	PO	0	-	-	-	-	0
WASTE DISCHG	Y	0.25	0	0	0	-	-	0
EMISSIONS	Y	0.25	0	0	0	-	-	0
CDL	Y	0.125	0	0	-	-	-	0

Tribal

No Tribal additional environmental record sources available for this State.

County

Total:	0	3	4	3	2	12
--------	---	---	---	---	---	----

* PO – Property Only

* 'Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
--------------------	-----------	--------------------------	----------------	------------------	-----------------------------	---------------------------	------------------------

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	HAZ GEN	STEPHEN PERRY	9642 GRANGEVILLE HANFORD CA 932300000	S	0.00 / 25.29	-1	19
2	DELISTED COUNTY	HAMILTON ELEMENTARY SCHOOL	1269 LELAND WY HANFORD CA 93230	NW	0.05 / 266.32	2	19
3	ALT FUELS	HANFORD ESD HANILTON	1269 E Leland Way Hanford CA 93230 <i>ID: 260582</i>	NW	0.07 / 370.12	2	19
4	CUPA KINGS	JIM LOOGMAN	8910 GRANGEVILLE BLVD HANFORD CA 93230	SE	0.16 / 831.70	-2	20
4	CERS TANK	Jim Loogman	8910 GRANGEVILLE BLVD HANFORD CA 93230 <i>Site ID: 39964</i>	SE	0.16 / 831.70	-2	20
5	RCRA NON GEN	ARACELI FERRAL	1178 EAST BASS STREET HANFORD CA 93230 <i>EPA Handler ID: CAC003211893</i>	SW	0.24 / 1,255.52	-2	23
6	RCRA NON GEN	MARIA SANTIAGO	1142 E. BASS ST. HANFORD CA 93230 <i>EPA Handler ID: CAC003273091</i>	SW	0.25 / 1,312.06	-3	24
7	VCP	LEE RICHMOND JR. HIGH SCHOOL	1000 E FLORINDA ST HANFORD CA 93230 <i>EPA ID Cleanup Status: 16820002 CERTIFIED O&M - LAND USE RESTRICTIONS ONLY AS OF 10/29/2010</i>	SW	0.45 / 2,390.22	-3	25
7	LUR	LEE RICHMOND JR. HIGH SCHOOL	1000 E FLORINDA ST HANFORD CA 93230 <i>EPA ID Cleanup Status: 16820002 CERTIFIED O&M - LAND USE RESTRICTIONS ONLY AS OF 10/29/2010</i>	SW	0.45 / 2,390.22	-3	27
7	ENVIROSTOR	LEE RICHMOND JR. HIGH SCHOOL	1000 E FLORINDA ST HANFORD CA 93230 <i>EPA ID Cleanup Status: 16820002 CERTIFIED O&M - LAND USE RESTRICTIONS ONLY AS OF 10/29/2010</i>	SW	0.45 / 2,390.22	-3	28
8	SWF/LF	Volpa Landfill	8526 8-1/2 Avenue Hanford CA 93230 <i>Act Opl Status Activity: Closed Solid Waste Disposal Site</i>	ENE	0.50 / 2,643.76	-2	30
9	TOXIC PITS	HITCHCOCK TRANSPORTATION CO.	9150 LACEY BLVD. HANFORD CA 93232	S	0.99 / 5,240.08	-3	31

Executive Summary: Summary by Data Source

Standard

Federal

RCRA NON GEN - RCRA Non-Generators

A search of the RCRA NON GEN database, dated Apr 8, 2024 has found that there are 2 RCRA NON GEN site(s) within approximately 0.25miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
ARACELI FERRAL	1178 EAST BASS STREET HANFORD CA 93230	SW	0.24 / 1,255.52	5
<i>EPA Handler ID: CAC003211893</i>				
MARIA SANTIAGO	1142 E. BASS ST. HANFORD CA 93230	SW	0.25 / 1,312.06	6
<i>EPA Handler ID: CAC003273091</i>				

State

ENVIROSTOR - EnviroStor Database

A search of the ENVIROSTOR database, dated Jun 25, 2024 has found that there are 1 ENVIROSTOR site(s) within approximately 1.00miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LEE RICHMOND JR. HIGH SCHOOL	1000 E FLORINDA ST HANFORD CA 93230	SW	0.45 / 2,390.22	7
<i>Estor/EPA ID Cleanup Status: 16820002 CERTIFIED O&M - LAND USE RESTRICTIONS ONLY AS OF 10/29/2010</i>				

SWF/LF - Solid Waste Information System (SWIS)

A search of the SWF/LF database, dated May 10, 2024 has found that there are 1 SWF/LF site(s) within approximately 0.50miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Volpa Landfill	8526 8-1/2 Avenue Hanford CA 93230	ENE	0.50 / 2,643.76	8
<i>Act Opl Status Activity: Closed Solid Waste Disposal Site</i>				

CERS TANK - California Environmental Reporting System (CERS) Tanks

A search of the CERS TANK database, dated Apr 25, 2024 has found that there are 1 CERS TANK site(s) within approximately 0.25 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Jim Loogman	8910 GRANGEVILLE BLVD HANFORD CA 93230	SE	0.16 / 831.70	4

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
<i>Site ID: 39964</i>				

LUR - Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions

A search of the LUR database, dated Jun 25, 2024 has found that there are 1 LUR site(s) within approximately 0.50miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LEE RICHMOND JR. HIGH SCHOOL	1000 E FLORINDA ST HANFORD CA 93230	SW	0.45 / 2,390.22	7

Estor/EPA ID | Cleanup Status: 16820002 | CERTIFIED O&M - LAND USE RESTRICTIONS ONLY AS OF 10/29/2010

VCP - Voluntary Cleanup Program

A search of the VCP database, dated Jun 25, 2024 has found that there are 1 VCP site(s) within approximately 0.50miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LEE RICHMOND JR. HIGH SCHOOL	1000 E FLORINDA ST HANFORD CA 93230	SW	0.45 / 2,390.22	7

Estor/EPA ID | Cleanup Status: 16820002 | CERTIFIED O&M - LAND USE RESTRICTIONS ONLY AS OF 10/29/2010

DELISTED COUNTY - Delisted County Records

A search of the DELISTED COUNTY database, dated Jun 24, 2024 has found that there are 1 DELISTED COUNTY site(s) within approximately 0.25miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
HAMILTON ELEMENTARY SCHOOL	1269 LELAND WY HANFORD CA 93230	NW	0.05 / 266.32	2

County

CUPA KINGS - Kings County - CUPA Facility List

A search of the CUPA KINGS database, dated Dec 3, 2020 has found that there are 1 CUPA KINGS site(s) within approximately 0.25 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
JIM LOOGMAN	8910 GRANGEVILLE BLVD HANFORD CA 93230	SE	0.16 / 831.70	4

Non Standard

Federal

ALT FUELS - Alternative Fueling Stations

A search of the ALT FUELS database, dated Apr 30, 2024 has found that there are 1 ALT FUELS site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
HANFORD ESD HAMILTON	1269 E Leland Way Hanford CA 93230 <i>ID: 260582</i>	NW	0.07 / 370.12	<u>3</u>

State

TOXIC PITS - Toxic Pit Cleanup Act Sites

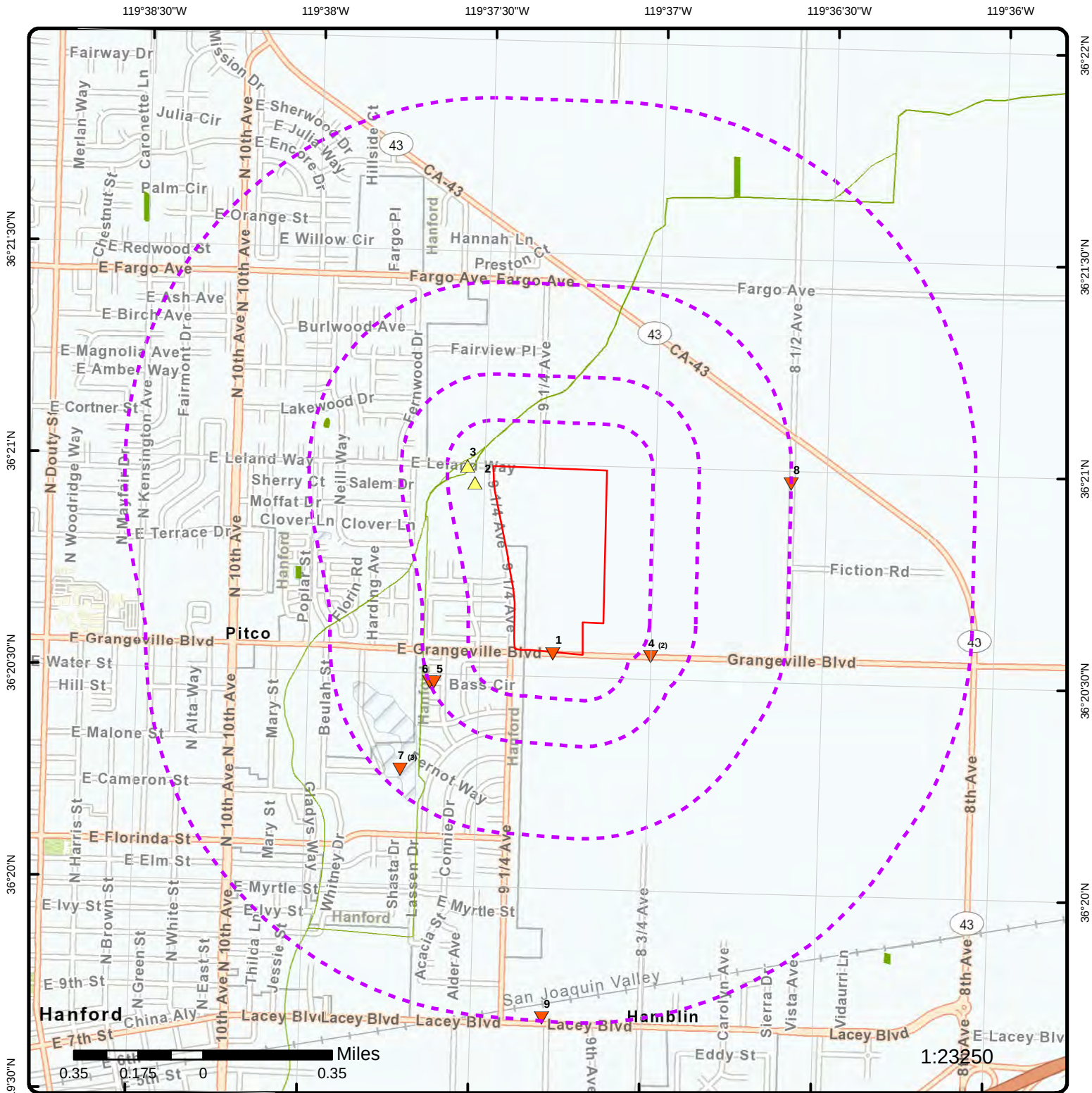
A search of the TOXIC PITS database, dated Jul 1, 1995 has found that there are 1 TOXIC PITS site(s) within approximately 1.00miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
HITCHCOCK TRANSPORTATION CO.	9150 LACEY BLVD. HANFORD CA 93232	S	0.99 / 5,240.08	<u>9</u>

HAZ GEN - Generators from Hazardous Waste Manifest Data

A search of the HAZ GEN database, dated Dec 31, 2017 has found that there are 1 HAZ GEN site(s) within approximately 0.02miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
STEPHEN PERRY	9642 GRANGEVILLE HANFORD CA 932300000	S	0.00 / 25.29	<u>1</u>



Map: 1.0 Mile Radius

Order Number: 24071600420

Address: NEC Grangeville Blvd and 9 1/4 Ave., California 93230, CA



Project Property

Buffer Outline

Sites with Higher Elevation

Sites with Same Elevation

Sites with Lower Elevation

Sites with Unknown Elevation

Areas with Higher Elevation

Areas with Same Elevation

Areas with Lower Elevation

Areas with Unknown Elevation

Freeways; Highways

Traffic Circle; Ramp

Major & Minor Arterial

Traffic Circle; Ramp

Local Road

Rail

State

Country

National Wetland

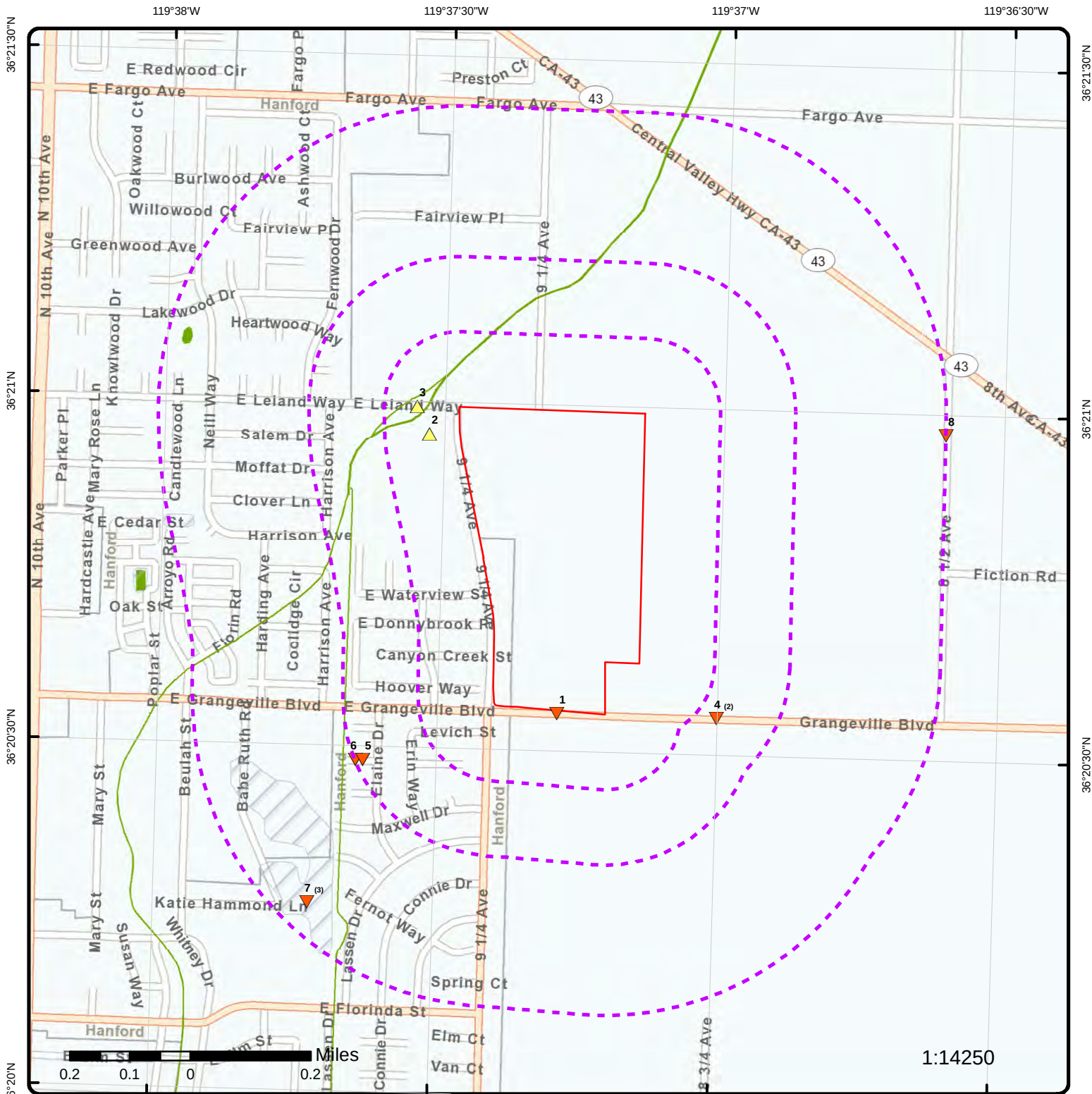
Indian Reserve Land

100 Year Flood Zone

500 Year Flood Zone

FWS Special Designation Areas

National Priorities List (Active, Delisted, Proposed, Institutional Control)



Map: 0.5 Mile Radius

Order Number: 24071600420

Address: NEC Grangeville Blvd and 9 1/4 Ave., California 93230, CA



Project Property

Buffer Outline

Sites with Higher Elevation

Sites with Same Elevation

Sites with Lower Elevation

Sites with Unknown Elevation

Areas with Higher Elevation

Areas with Same Elevation

Areas with Lower Elevation

Areas with Unknown Elevation

Freeways; Highways

Traffic Circle; Ramp

Major & Minor Arterial

Traffic Circle; Ramp

Local Road

Rail

State

Country

National Wetland

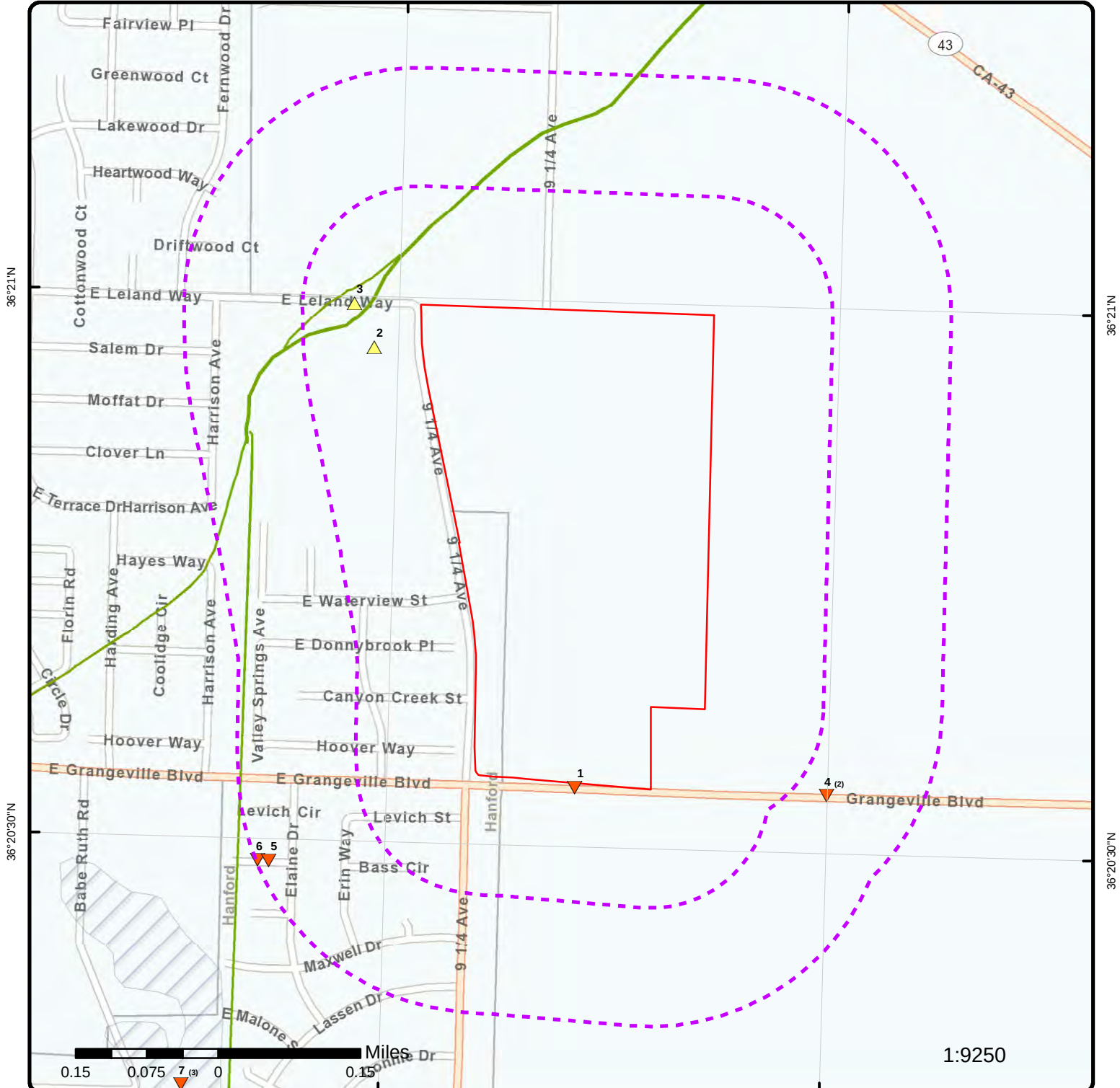
Indian Reserve Land

100 Year Flood Zone

500 Year Flood Zone

FWS Special Designation Areas

National Priorities List (Active, Delisted, Proposed, Institutional Control)



Map: 0.25 Mile Radius

Order Number: 24071600420

Address: NEC Grangeville Blvd and 9 1/4 Ave., California 93230, CA



Project Property

Buffer Outline

▲ Sites with Higher Elevation

▲ Sites with Same Elevation

▼ Sites with Lower Elevation

○ Sites with Unknown Elevation

Areas with Higher Elevation

Areas with Same Elevation

Areas with Lower Elevation

Areas with Unknown Elevation

Freeways; Highways

Traffic Circle; Ramp

Major & Minor Arterial

Traffic Circle; Ramp

Local Road

Rail

State

Country

National Wetland

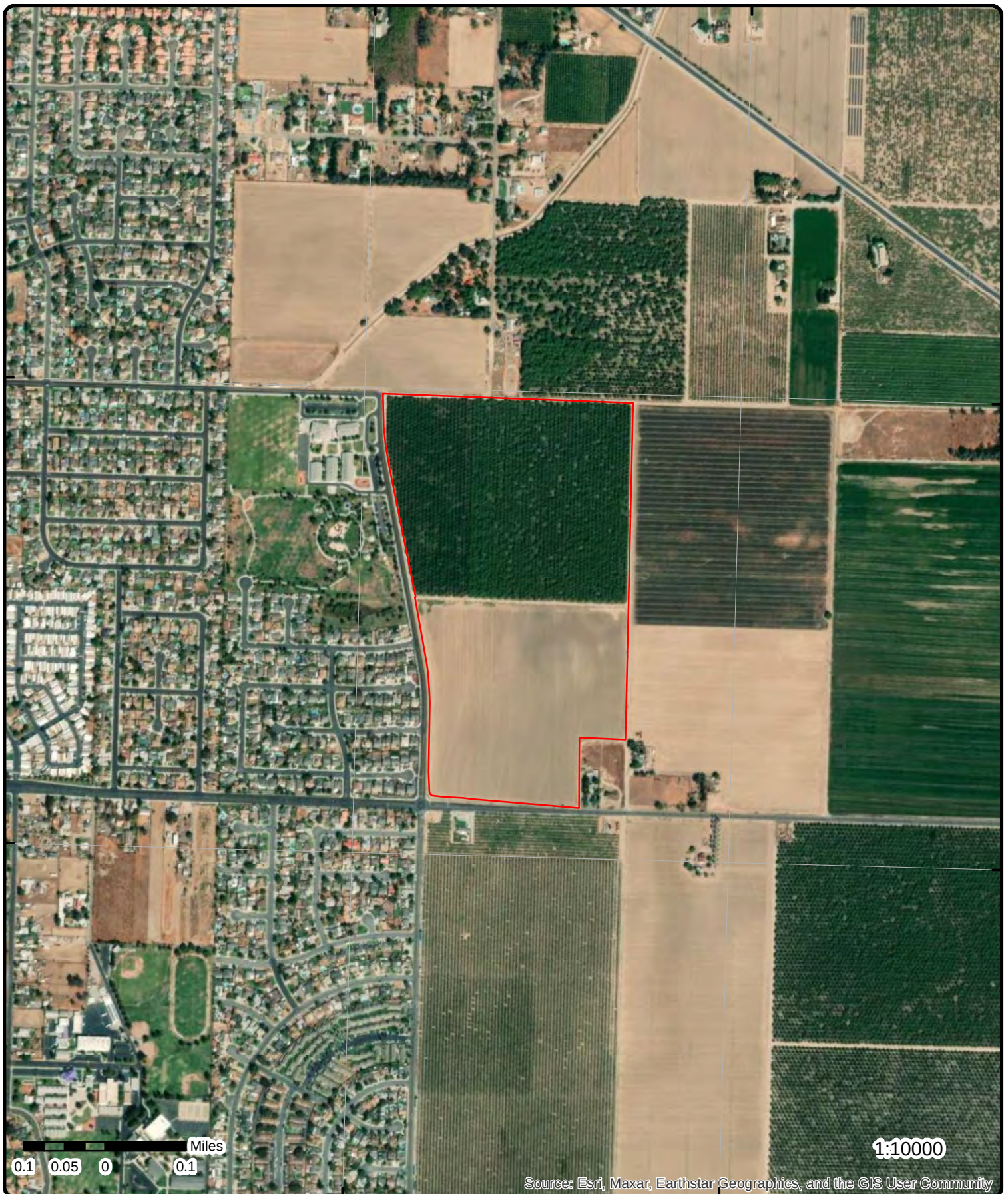
Indian Reserve Land

100 Year Flood Zone

500 Year Flood Zone

FWS Special Designation Areas

National Priorities List (Active, Delisted, Proposed, Institutional Control)



Aerial Year: 2021

Order Number: 24071600420

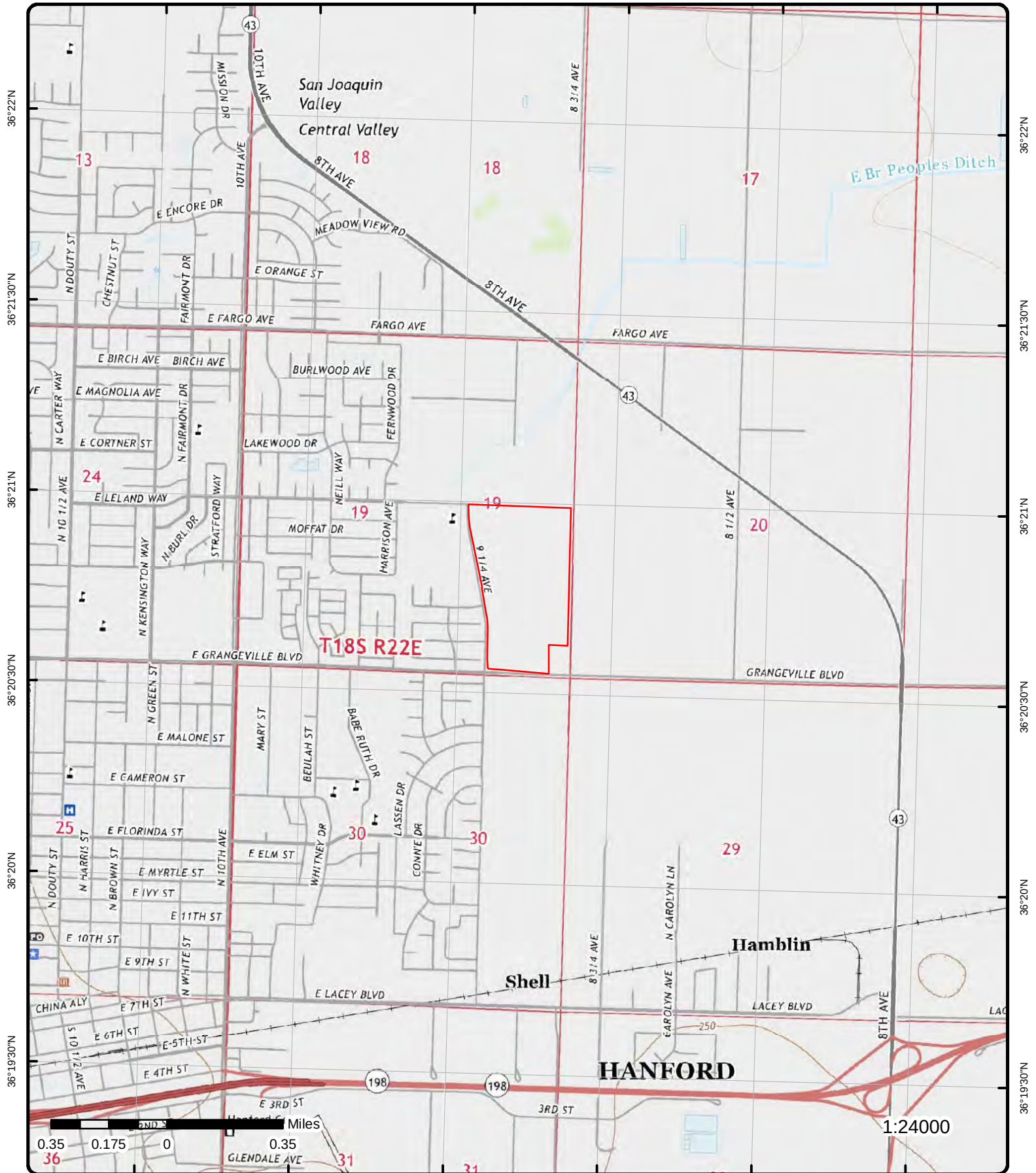
Address: NEC Grangeville Blvd and 9 1/4 Ave., California 93230, CA



© ERIS Information Inc.

Source: ESRI World Imagery

Page 689 of 819



Topographic Map Year: 2021

Order Number: 24071600420

Address: NEC Grangeville Blvd and 9 1/4 Ave., CA



Quadrangle(s): Hanford CA, Laton CA, Remnoy CA, Burris Park CA

© ERIS Information Inc.

Source: USGS Topographic Map

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of1	S	0.00 / 25.29	254.52 / -1	STEPHEN PERRY 9642 GRANGEVILLE HANFORD CA 932300000	HAZ GEN
Epa ID:		CAC001410120		Facility County:		16
Address 2:				County:		Kings
Details DTSC HWTS:		The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search				
Handler Profile URL:		https://hwts.dtsc.ca.gov/facility/CAC001410120				
2	1 of1	NW	0.05 / 266.32	257.64 / 2	HAMILTON ELEMENTARY SCHOOL 1269 LELAND WY HANFORD CA 93230	DELISTED COUNTY
Delisted County Records						
Original Source Facility ID:		FA0003213				
Original Source Name:		Kings County - CUPA Facility List				
Record Dt:		09-APR-2019				
Record Date:		09-APR-2019				
3	1 of1	NW	0.07 / 370.12	257.61 / 2	HANFORD ESD HAMILTON 1269 E Leland Way Hanford CA 93230	ALT FUELS
ID:		260582		CNG Dispenser No:		
Fuel Type Code:		ELEC: Electric		CNG Site Renew Src:		
Station Phone:		888-758-4389		CNG Tot Compr Cap:		
Expected Date:				CNG Storage Cap:		
BD Blends:				CNG Fill Type Code:		
NG PSI:				CNG PSI:		
Federal Agency ID:				CNG Vehicle Class:		
Open Date:		2023-05-10		LNG Site Renew Src:		
Hydrogen is Retail:				LNG Vehicle Class:		
Federal Agency:				LPG Nozzle Types:		
Facility Type:				Hydrogen Pressures:		
Dt Last Confirmed:		2024-04-30		Hydrogen Standards:		
Updated at:		2024-04-30 01:34:45 UTC		Latitude:		36.349533
Access Code:		public		Longitude:		-119.62515
Access Detail Code:						
Groups with Access Code:		Public				
Groups with Access Code Fr:		Public				
Fed Agency Name:						
Hydrogen Status Link:						
E85 Other Ethanol Blends:						
NPS Unit Name:						
Cards Accepted:						
CNG Statn Sells Renewable Na:						
LNG Statn Sells Renewable Na:						
Maximum Vehicle Class:						
RD Blended With Biodiesel:						
RD Blends:						
RD Blends French:						
RD Maximum Biodiesel Level:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status: Owner Type Desc: E85 Blender Pump Desc: NG Fill Type Desc: NG Vehicle Class Desc: Geocode Status Desc: Group with Access Desc: LPG Primary Desc: Intersection Directions: Access Days Time: Restricted Access: Ev Workplace Charging:		Open: The station is open. The location is from a real GPS readout at the station. Publicly available to all customers. 24 hours daily false				

4	1 of 2	SE	0.16 / 831.70	254.10 / -2	JIM LOOGMAN 8910 GRANGEVILLE BLVD HANFORD CA 93230	CUPA KINGS
-------------------	--------	----	---------------	-------------	--	------------

Facility ID: FA0001112

Detail(s)

Mailing Name: JIM LOOGMAN
Mailing Address1: 1155 WESTWOOD DR
Mailing State: CA
Mailing Zip: 93230

Detail(s)

CERS ID:
Prgm Elm Code: 2113
Status: Inactive

CERS ID:
Prgm Elm Code: 1901
Status: Active

CERS ID:
Prgm Elm Code: 2229
Status: Active

CERS ID:
Prgm Elm Code:
Status: Inactive

4	2 of 2	SE	0.16 / 831.70	254.10 / -2	Jim Loogman 8910 GRANGEVILLE BLVD HANFORD CA 93230	CERS TANK
-------------------	--------	----	---------------	-------------	--	-----------

Site ID: 39964
Latitude: 36.346352
Longitude: -119.616669

Regulated Programs

EI ID: 10485466
EI Description: Chemical Storage Facilities

EI ID: 10485466
EI Description: Aboveground Petroleum Storage

EI ID: 10485466
EI Description: Hazardous Waste Generator

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

Violations

Violation Date: 04/13/2016
Violation Program: HMRRP
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 04/19/2016. The facility's HMBP needs to be updated. Please update the following items in CERS: 1. Motor Oil- located east of house. 2. Pump oil must be added. The operator stores 55 gallon of this hazardous material east of the house. 3. Trap wagon of diesel must be added. The trap wagon is 550 gallons and is stored on the east side of the house. The facility's site map must be updated to reflect the above noted changes.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Enforcements

Enf Action Date: 04/13/2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Division: Kings County Environmental Health
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 04/13/2016
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Kings County Environmental Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

The operator currently hauls his waste oil to Buford Oil in Hanford, CA. Operator only generates 55 gallons of waste oil once a year. The waste oil drum was observed properly maintained.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 04/13/2016
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Kings County Environmental Health
Eval Program: APSA
Eval Source: CERS
Eval Notes:

Eval Date: 04/13/2016
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Kings County Environmental Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

The facility's hazardous materials were observed properly stored and contained. Since the facility has above 2500 gallons of petroleum based products, the facility falls into the AGT program. As a result, when the operator receives their yearly bill, they will see a \$70 fee. Please remember to update CERS information on CERS once a year when the invoice arrives.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<u>Affiliations</u>						
Affil Type Desc:		Document Preparer				
Entity Name:		Jim Loogman				
Entity Title:						
Address:						
City:						
State:						
Country:						
Zip Code:						
Phone:						
Affil Type Desc:		Facility Mailing Address				
Entity Name:		Mailing Address				
Entity Title:						
Address:		1155 Westwood Dr.				
City:		Hanford				
State:		CA				
Country:						
Zip Code:		93230				
Phone:						
Affil Type Desc:		Environmental Contact				
Entity Name:		Jim Loogman				
Entity Title:						
Address:		1155 Westwood Dr.				
City:		Hanford				
State:		CA				
Country:						
Zip Code:		93230				
Phone:						
Affil Type Desc:		CUPA District				
Entity Name:		Kings County Env Health				
Entity Title:						
Address:		330 Campus Drive				
City:		Hanford				
State:		CA				
Country:						
Zip Code:		93230				
Phone:		(559) 584-1411				
Affil Type Desc:		Operator				
Entity Name:		Jim Loogman				
Entity Title:						
Address:						
City:						
State:						
Country:						
Zip Code:						
Phone:		(559) 816-2773				
Affil Type Desc:		Legal Owner				
Entity Name:		Jim Loogman				
Entity Title:						
Address:		1155 Westwood Dr.				
City:		Hanford				
State:		CA				
Country:		United States				
Zip Code:		93230				
Phone:		(559) 816-2773				
Affil Type Desc:		Parent Corporation				
Entity Name:		Jim Loogman				
Entity Title:						
Address:						
City:						
State:						
Country:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

Zip Code:
Phone:

Affil Type Desc: Identification Signer
Entity Name: Jim Loogman
Entity Title: Owner
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Property Owner
Entity Name: Jim Loogman
Entity Title:
Address: 1155 Westwood Dr
City: Hanford
State: CA
Country: United States
Zip Code: 93230
Phone: (559) 816-2773

Coordinates

Env Int Type Code:	HWG	Longitude:	-119.616590
Program ID:	10485466	Coord Name:	
Latitude:	36.346330	Ref Point Type Desc:	Center of a facility or station.

<u>5</u>	1 of1	SW	0.24 / 1,255.52	253.47 / -2	ARACELI FERRAL 1178 EAST BASS STREET HANFORD CA 93230	RCRA NON GEN
----------	-------	----	--------------------	----------------	---	-----------------

EPA Handler ID: CAC003211893
Gen Status Universe: No Report
Contact Name: ARACELI FERRAL
Contact Address: 1178 EAST BASS STREET , , HANFORD , CA, 93230 ,
Contact Phone No and Ext: 559-212-8984
Contact Email: LUCYPICENO1@GMAIL.COM
Contact Country:
County Name: KINGS
EPA Region: 09
Land Type:
Receive Date: 20230111
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Apr 2024, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20230111
Handler Name: ARACELI FERRAL
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	1178 EAST BASS STREET
Name:	ARACELI FERRAL	Street 2:	
Date Became Current:		City:	HANFORD
Date Ended Current:		State:	CA
Phone:	559-212-8984	Country:	
Source Type:	Implementer	Zip Code:	93230

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	1178 EAST BASS STREET
Name:	ARACELI FERRAL	Street 2:	
Date Became Current:		City:	HANFORD
Date Ended Current:		State:	CA
Phone:	559-212-8984	Country:	
Source Type:	Implementer	Zip Code:	93230

6	1 of 1	SW	0.25 / 1,312.06	253.39 / -3	MARIA SANTIAGO 1142 E. BASS ST. HANFORD CA 93230	RCRA NON GEN
----------	---------------	-----------	----------------------------	------------------------	---	-------------------------

EPA Handler ID: CAC003273091
Gen Status Universe: No Report
Contact Name: MARIA SANTIAGO
Contact Address: 1142 E. BASS ST. , , HANFORD , CA, 93230 ,
Contact Phone No and Ext: 559-577-9119
Contact Email: TUXTREMEAD20@YAHOO.COM
Contact Country:
County Name: KINGS
EPA Region: 09
Land Type:
Receive Date: 20240213
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Apr 2024, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Underground Injection Activity:	No					
Commercial TSD:	No					
Used Oil Transporter:	No					
Used Oil Transfer Facility:	No					
Used Oil Processor:	No					
Used Oil Refiner:	No					
Used Oil Burner:	No					
Used Oil Market Burner:	No					
Used Oil Spec Marketer:	No					

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20240213
Handler Name: MARIA SANTIAGO
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	1142 E. BASS ST.
Name:	MARIA SANTIAGO	Street 2:	
Date Became Current:		City:	HANFORD
Date Ended Current:		State:	CA
Phone:	559-577-9119	Country:	
Source Type:	Implementer	Zip Code:	93230

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	1142 E. BASS ST.
Name:	MARIA SANTIAGO	Street 2:	
Date Became Current:		City:	HANFORD
Date Ended Current:		State:	CA
Phone:	559-577-9119	Country:	
Source Type:	Implementer	Zip Code:	93230

7	1 of 3	SW	0.45 / 2,390.22	252.78 / -3	LEE RICHMOND JR. HIGH SCHOOL 1000 E FLORINDA ST HANFORD CA 93230	VCP
-------------------	--------	----	--------------------	----------------	---	-----

Estor/EPA ID:	16820002	Acres:	2.5 ACRES
Nat Priority List:	NO	Supervisor:	JOSEPH TAPIA
Census Tract:	6031000800	County:	KINGS
Permit Renewl Lead:		Latitude:	36.3378693537057
Project Manager:		Longitude:	-119.628709023793
Site Code:	100350, 100350		
Cleanup Status:	CERTIFIED O&M - LAND USE RESTRICTIONS ONLY AS OF 10/29/2010		
Cleanup Oversight Agencies:	DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY		
Assembly District:	33		
Senate District:	16		
School District:			
Office:	ENGINEERING & SPECIAL PROJECTS		
Public Participatn Spclst:			
Special Program:	VOLUNTARY AGREEMENT - STANDARD VOLUNTARY AGREEMENT		
Funding:	SITE PROPONENT		
Site Type:	VOLUNTARY AGREEMENT		
APN:	NONE SPECIFIED		
Past Use that Caused Contam:	LANDFILL - DOMESTIC		
Potential Media Affected:	SOIL		
Potential Contamin of Concern:			

LEAD

Site History:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

In Nov. 92, the district began the process of expanding the Lee Richmond Elementary School site. As assessment of the undeveloped land (site) owned by the district adjacent to the present school identified the existence of an abandoned landfill on the site, where household rubbish and refuse was burned and spread over the central portion of the site during the 1920's -30's. Lab analyses of soil samples taken in the disturbed area indicated the presence of elevated concentrations of lead ranging from 200 mb/kg to 3,700 mg/kg. The District entered into a Voluntary Cleanup Agreement (VCA) with DTSC in April 1993. Pursuant to the VCA, the District prepared a Removal Workplan dated March 1993 and a Removal Work- plan dated May 1993. The District conducted remedial activities May 20-24, 1993 under DTSC oversight. Approximately 150 cubic yards of soil contaminated with greater than 868 mg/kg of lead was removed and replaced with clean fill soil. In addition, DTSC observed the placement of a compacted soil cover over the remediated area. The thickness of the cover ranged from 8 to 18 inches across the site, and was placed in areas of the site containing total lead concentrations in excess of 200 mg/kg. DTSC approved proposed usage of the site in July 1993. The District recorded an Agreement and Covenant to Restrict Use of Property for the deed to the remediated property in July 1993. The Covenant restricts use of the property to intrude below a level of two inches above the bottom level of the final clean soil cap placed on the property, subject to written approval by DTSC. The present use of the property by the District consists of a grassed baseball field with fencing, a chain link backstop, and team benching.

Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY - LAND USE RESTRICTIONS
Program Type: VOLUNTARY CLEANUP
CalEnviroScreen Score: 90-95%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=16820002

Land Use Restrictions

Site Management Requirmnts: LAND USE COVENANT
NO EXCAVATION OF CONTAMINATED SOILS WITHOUT AGENCY REVIEW AND APPROVAL
Title: Deed Restriction / Land Use Covenant
Title Link: https://www.envirostor.dtsc.ca.gov/public/view_document?docurl=/public/deliverable_documents/4073941886/SMBR%5FDEED%5F16820002%2Epdf
Date Recorded: 7/29/1993

Completed Activities

Title: VCA
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5015001
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Standard Voluntary Agreement
Date Completed: 4/7/1993
Comments:

Title: Removal Action Completion Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&doc_id=5015000
Area Name:
Area Link:
Sub Area:
Sub Area Link:

Document Type: Removal Action Completion Report
Date Completed: 5/7/1993
Comments:

Title: Deed Restriction / Land Use Covenant
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5014999
Area Name:
Area Link:
Sub Area:
Sub Area Link:

Document Type: Land Use Restriction
Date Completed: 7/29/1993
Comments: The deed restriction is for a clay cap placed over impacted soils at the site. The cap area has been developed with a baseball diamond and athletic areas. The restrictions do not allow any additiional construction over the cap without prior approval by DTSC.

Title: Voluntary Cleanup Agreement Completion
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5014997
Area Name:
Area Link:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

Sub Area:
Sub Area Link:
Document Type:
Date Completed:
Comments:

*Voluntary Cleanup Agreement Completion
12/14/1995

Title:
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type:
Date Completed:
Comments:

Certification
https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5014998

Certification
11/24/1993

7	2 of 3	SW	0.45 / 2,390.22	252.78 / -3	LEE RICHMOND JR. HIGH SCHOOL 1000 E FLORINDA ST HANFORD CA 93230	LUR
-------------------	--------	----	-----------------	-------------	--	-----

Estor/EPA ID:
Nat Priority List:
Census Tract:
Permit Renewl Lead:
Project Manager:
Site Code:
Cleanup Status:
Cleanup Oversight Agencies:
Assembly District:
Senate District:
School District:
Office:
Public Participatn Spclst:
Special Program:
Funding:
Site Type:
APN:
Past Use that Caused Contam:
Potential Media Affected:
Potential Contamin of Concern:

16820002
NO
6031000800

100350, 100350
CERTIFIED O&M - LAND USE RESTRICTIONS ONLY AS OF 10/29/2010
DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY
33
16
ENGINEERING & SPECIAL PROJECTS
VOLUNTARY AGREEMENT - STANDARD VOLUNTARY AGREEMENT
SITE PROPONENT
VOLUNTARY AGREEMENT
NONE SPECIFIED
LANDFILL - DOMESTIC
SOIL

Acres:
Supervisor:
County:
Latitude:
Longitude:

2.5 ACRES
JOSEPH TAPIA
KINGS
36.3378693537057
-119.628709023793

LEAD

Site History:

In Nov. 92, the district began the process of expanding the Lee Richmond Elementary School site. As assessment of the undeveloped land (site) owned by the district adjacent to the present school identified the existence of an abandoned landfill on the site, where household rubbish and refuse was burned and spread over the central portion of the site during the 1920's -30's. Lab analyses of soil samples taken in the disturbed area indicated the presence of elevated concentrations of lead ranging from 200 mb/kg to 3,700 mg/kg. The District entered into a Voluntary Cleanup Agreement (VCA) with DTSC in April 1993. Pursuant to the VCA, the District prepared a Removal Workplan dated March 1993 and a Removal Work- plan dated May 1993. The District conducted remedial activities May 20-24, 1993 under DTSC oversight. Approximately 150 cubic yards of soil contaminated with greater than 868 mg/kg of lead was removed and replaced with clean fill soil. In addition, DTSC observed the placement of a compacted soil cover over the remediated area. The thickness of the cover ranged from 8 to 18 inches across the site, and was placed in areas of the site containing total lead concentrations in excess of 200 mg/kg. DTSC approved proposed usage of the site in July 1993. The District recorded an Agreement and Covenant to Restrict Use of Property for the deed to the remediated property in July 1993. The Covenant restricts use of the property to intrude below a level of two inches above the bottom level of the final clean soil cap placed on the property, subject to written approval by DTSC. The present use of the property by the District consists of a grassed baseball field with fencing, a chain link backstop, and team benching.

Status:
Program Type:
CalEnviroScreen Score:
Summary Link:

CERTIFIED O&M - LAND USE RESTRICTIONS ONLY - LAND USE RESTRICTIONS
VOLUNTARY CLEANUP
90-95%
https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=16820002

Land Use Restrictions

Site Management Requirmnts: LAND USE COVENANT

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Title:		NO EXCAVATION OF CONTAMINATED SOILS WITHOUT AGENCY REVIEW AND APPROVAL				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/view_document?docurl=/public/deliverable_documents/4073941886/SMBR%5FDEED%5F16820002%2Epdf				
Date Recorded:		7/29/1993				
<u>Completed Activities</u>						
Title:		Removal Action Completion Report				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&doc_id=5015000				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Removal Action Completion Report				
Date Completed:		5/7/1993				
Comments:						
Title:		Deed Restriction / Land Use Covenant				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5014999				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Land Use Restriction				
Date Completed:		7/29/1993				
Comments:		The deed restriction is for a clay cap placed over impacted soils at the site. The cap area has been developed with a baseball diamond and athletic areas. The restrictions do not allow any addiitonal construction over the cap without prior approval by DTSC.				
Title:		VCA				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5015001				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Standard Voluntary Agreement				
Date Completed:		4/7/1993				
Comments:						
Title:		Certification				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5014998				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Certification				
Date Completed:		11/24/1993				
Comments:						
Title:		Voluntary Cleanup Agreement Completion				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5014997				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		*Voluntary Cleanup Agreement Completion				
Date Completed:		12/14/1995				
Comments:						
7	3 of 3	SW	0.45 / 2,390.22	252.78 / -3	LEE RICHMOND JR. HIGH SCHOOL 1000 E FLORINDA ST HANFORD CA 93230	ENVIROSTOR
Estor/EPA ID:		16820002		Assembly District:	33	
Site Code:		100350, 100350		Senate District:	16	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

Nat Priority List:	NO			Permit Renewal Lead:	
APN:	NONE SPECIFIED			Public Partici Spclst:	
Census Tract:	6031000800			Project Manager:	
Site Type:	VOLUNTARY AGREEMENT			County:	KINGS
Address Description:	1000 E FLORINDA ST			Latitude:	36.3378693537057
Office:	ENGINEERING & SPECIAL PROJECTS			Longitude:	-119.628709023793
Special Program:	VOLUNTARY AGREEMENT - STANDARD VOLUNTARY AGREEMENT			Acres:	2.5 ACRES
Funding:	SITE PROPONENT			Supervisor:	JOSEPH TAPIA
Cleanup Status:	CERTIFIED O&M - LAND USE RESTRICTIONS ONLY AS OF 10/29/2010				
Cleanup Oversight Agencies:	DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY				
School District:					
Past Use that Caused Contam:	LANDFILL - DOMESTIC				
Potential Media Affected:	SOIL				
Potential Contamin of Concern:					

LEAD

Site History:

In Nov. 92, the district began the process of expanding the Lee Richmond Elementary School site. As assessment of the undeveloped land (site) owned by the district adjacent to the present school identified the existence of an abandoned landfill on the site, where household rubbish and refuse was burned and spread over the central portion of the site during the 1920's -30's. Lab analyses of soil samples taken in the disturbed area indicated the presence of elevated concentrations of lead ranging from 200 mb/kg to 3,700 mg/kg. The District entered into a Voluntary Cleanup Agreement (VCA) with DTSC in April 1993. Pursuant to the VCA, the District prepared a Removal Workplan dated March 1993 and a Removal Work- plan dated May 1993. The District conducted remedial activities May 20-24, 1993 under DTSC oversight. Approximately 150 cubic yards of soil contaminated with greater than 868 mg/kg of lead was removed and replaced with clean fill soil. In addition, DTSC observed the placement of a compacted soil cover over the remediated area. The thickness of the cover ranged from 8 to 18 inches across the site, and was placed in areas of the site containing total lead concentrations in excess of 200 mg/kg. DTSC approved proposed usage of the site in July 1993. The District recorded an Agreement and Covenant to Restrict Use of Property for the deed to the remediated property in July 1993. The Covenant restricts use of the property to intrude below a level of two inches above the bottom level of the final clean soil cap placed on the property, subject to written approval by DTSC. The present use of the property by the District consists of a grassed baseball field with fencing, a chain link backstop, and team benching.

Status:	CERTIFIED O&M - LAND USE RESTRICTIONS ONLY - LAND USE RESTRICTIONS
Program Type:	VOLUNTARY CLEANUP
CalEnviroScreen Score:	90-95%
Summary Link:	https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=16820002

Land Use Restrictions

Site Management	LAND USE COVENANT
Requirements:	NO EXCAVATION OF CONTAMINATED SOILS WITHOUT AGENCY REVIEW AND APPROVAL
Title:	Deed Restriction / Land Use Covenant
Title Link:	https://www.envirostor.dtsc.ca.gov/public/view_document?docurl=/public/deliverable_documents/4073941886/SMBR%5FDEED%5F16820002%2Epdf
Date Recorded:	7/29/1993

Completed Activities

Title:	VCA
Title Link:	https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5015001
Area Name:	
Area Link:	
Sub Area:	
Sub Area Link:	
Document Type:	Standard Voluntary Agreement
Date Completed:	4/7/1993
Comments:	
Title:	Certification
Title Link:	https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5014998
Area Name:	
Area Link:	
Sub Area:	
Sub Area Link:	
Document Type:	Certification

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date Completed:		11/24/1993				
Comments:						
Title:		Deed Restriction / Land Use Covenant				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5014999				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Land Use Restriction				
Date Completed:		7/29/1993				
Comments:		The deed restriction is for a clay cap placed over impacted soils at the site. The cap area has been developed with a baseball diamond and athletic areas. The restrictions do not allow any addiitonal construction over the cap without prior approval by DTSC.				
Title:		Removal Action Completion Report				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&doc_id=5015000				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Removal Action Completion Report				
Date Completed:		5/7/1993				
Comments:						
Title:		Voluntary Cleanup Agreement Completion				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=16820002&enforcement_id=5014997				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		*Voluntary Cleanup Agreement Completion				
Date Completed:		12/14/1995				
Comments:						

<u>8</u>	1 of1	ENE	0.50 / 2,643.76	254.22 / -2	Volpa Landfill 8526 8-1/2 Avenue Hanford CA 93230	SWF/LF	
SWIS No:			16-CR-0011		ARB District:		San Joaquin Valley Unified
Site ID:			925		SWRCB Region:		Central Valley
EPA Fed Regist ID:					Site Point of Cont:		Angela Gomez
Site Op Status:			Closed		Site ZIP:		93230
Regulatory Status:			Pre-regulation		County:		Kings
Site is Archived:			No		Latitude:		36.34916
Absorbed on:					Longitude:		-119.61111
Absorbed by:							
Site Inert Debris Eng Fill:			No				
Closed Illegal Aband:			Yes				
Closed Illegal Aband Cat:			C1				
Finance Assuran Responsible:			No				
Incorporated City:			Hanford				
Local Government:			Hanford				
Reporting Agency Legal Name:			County of Kings				
Reporting Agency Department:			County Health Department				
Enforcing Agency Legal Name:			County of Kings				
Enforcing Agency Department:			County Health Department				

Site Owners

Site Type:	Disposal Only
Started On:	
Contact Name:	Mufid "Mike" Alamsi
Contact First Name:	Mufid "Mike"
Contact Last Name:	Alamsi
Contact Title:	
Contact Email:	mike@statefoods.net

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

Contact Phone:	(559) 300-8638
Owner Name:	Mufid Mohammed Ali Alamsi
Owner Address:	8526 8-1/2 Avenue
Owner City:	Hanford
Owner State:	CA
Owner Zip Code:	93230
Owner Phone:	

Site Activities (Search Result)

Activity Category:	Disposal	Act Regulat Stat:	Pre-regulations
Act Opl Status:	Closed		
Site Name:	Volpa Landfill		
Activity:	Solid Waste Disposal Site		

9	1 of 1	S	0.99 / 5,240.08	252.69 / -3	HITCHCOCK TRANSPORTATION CO. 9150 LACEY BLVD. HANFORD CA 93232	TOXIC PITS
Wds ID No:	5D161014N01	Exa:	N			
Wmu ID No:	5D161014N01-01	Exb:	N			
Region:	05F	Exc:	N			
Task:	85045	Exd:	N			
Edit Date:		Retro:				
Last Edit:		Si Close:				
Status:	A	Hydrogeo Rprt Status:				
Program:	NONR	Hydrogeo Reprt Due:				
Half:	Y	Hydrog Rpt Complet:	9/26/1988			
Leak:	N	Rb Staff:	J.STILES			
Number of Pits:	1	Rb Action:	CLOSED/FULL COMPLIANCE			
Notified:						

Unplottable Summary

Total: 0 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
----	------------------------	---------	------	-----	---------

No unplottable records were found that may be relevant for the search criteria.

Unplottable Report

No unplottable records were found that may be relevant for the search criteria.

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

National Priority List:

NPL

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Apr 22, 2024

National Priority List - Proposed:

PROPOSED NPL

Sites proposed by the United States Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Apr 22, 2024

Deleted NPL:

DELETED NPL

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Apr 22, 2024

SEMS List 8R Active Site Inventory:

SEMS

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the EPA's Facility Registry Service map tool.

Government Publication Date: Mar 27, 2024

SEMS List 8R Archive Sites:[SEMS ARCHIVE](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

Government Publication Date: Mar 27, 2024

Inventory of Open Dumps, June 1985:[ODI](#)

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

Comprehensive Environmental Response, Compensation and Liability Information System -[CERCLIS](#)**CERCLIS:**

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands:[IODI](#)

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned:[CERCLIS NFRAP](#)

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens:[CERCLIS LIENS](#)

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:[RCRA CORRACTS](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Apr 8, 2024

RCRA non-CORRACTS TSD Facilities:[RCRA TSD](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites that have indicated engagement in the treatment, storage, or disposal of hazardous waste which requires a RCRA hazardous waste permit.

Government Publication Date: Apr 8, 2024

RCRA Generator List:[RCRA LQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Apr 8, 2024

RCRA Small Quantity Generators List:[RCRA SQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Apr 8, 2024

RCRA Very Small Quantity Generators List:[RCRA VSQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Apr 8, 2024

RCRA Non-Generators:[RCRA NON GEN](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Apr 8, 2024

RCRA Sites with Controls:[RCRA CONTROLS](#)

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Apr 8, 2024

Federal Engineering Controls-ECs:[FED ENG](#)

List of Engineering controls (ECs) made available by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Apr 22, 2024

Federal Institutional Controls-ICs:[FED INST](#)

List of Institutional controls (ICs) made available by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Apr 22, 2024

Land Use Control Information System:

LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites:

NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

Government Publication Date: Apr 22, 2024

Emergency Response Notification System:

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Apr 28, 2024

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

Government Publication Date: Feb 7, 2024

FEMA Underground Storage Tank Listing:

FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan:

FRP

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (EPA). Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit FRPs. Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. This listing includes FRP facilities from an applicable EPA FOIA file and Homeland Infrastructure Foundation-Level Data (HIFLD) data file.

Government Publication Date: Jan 9, 2024

Delisted Facility Response Plans:

DELISTED FRP

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Jan 9, 2024

Historical Gas Stations:**HIST GAS STATIONS**

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries:**REFN**

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Feb 28, 2024

Petroleum Product and Crude Oil Rail Terminals:**BULK TERMINAL**

A list of petroleum product and crude oil rail terminals from the U.S. Energy Information Administration (EIA), as well as petroleum terminals sourced from the Federal Communications Commission Data hosted by the Homeland Infrastructure Foundation-Level Database. Data includes operable bulk petroleum product terminals with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil with activity between 2017 and 2018. EIA petroleum product terminal data comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings.

Government Publication Date: Jun 6, 2024

LIEN on Property:**SEMS LIEN**

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

Government Publication Date: Mar 27, 2024

Superfund Decision Documents:**SUPERFUND ROD**

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

Government Publication Date: Mar 27, 2024

Formerly Utilized Sites Remedial Action Program:**DOE FUSRAP**

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

State**State Response Sites:****RESPONSE**

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL.

Government Publication Date: Jun 25, 2024

EnviroStor Database:**ENVIROSTOR**

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS.

Government Publication Date: Jun 25, 2024

Delisted State Response Sites:**DELISTED ENVS**

Sites removed from the list of State Response Sites made available by the EnviroStor Data Management System, Department of Toxic Substances Control (DTSC).

Government Publication Date: Jun 25, 2024

Solid Waste Information System (SWIS):

SWF/LF

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

Government Publication Date: May 10, 2024

Solid Waste Disposal Sites with Waste Constituents Above Hazardous Waste Levels:

SWRCB SWF

This is a list of solid waste disposal sites identified by California State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit.

Government Publication Date: Sep 20, 2006

Waste Management Unit Database:

WMUD

The Waste Management Unit Database System tracks and inventories waste management units. CCR Title 27 contains criteria stating that Waste Management Units are classified according to their ability to contain wastes. Containment shall be determined by geology, hydrology, topography, climatology, and other factors relating to the ability of the Unit to protect water quality. Water Code Section 13273.1 requires that operators submit a water quality solid waste assessment test (SWAT) report to address leak status. The WMUDS was last updated by the State Water Resources control board in 2000.

Government Publication Date: Jan 1, 2000

EnviroStor Hazardous Waste Facilities:

HWP

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: Jun 25, 2024

Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report:

SWAT

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

Construction and Demolition Debris Recyclers:

C&D DEBRIS RECY

This listing of Construction and Demolition Debris Recyclers is maintained by the California Intergrated Waste Management Board-common C&D materials include lumber, drywall, metals, masonry (brick, concrete, etc.), carpet, plastic, pipe, rocks, dirt, paper, cardboard, or green waste related to land development.

Government Publication Date: Jun 20, 2018

Recycling Centers:

RECYCLING

This list of Certified Recycling Centers that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Apr 8, 2024

Listing of Certified Processors:

PROCESSORS

This list of Certified Processors that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Jul 9, 2024

Listing of Certified Dropoff, Collection, and Community Service Programs:

CONTAINER RECY

This list of Certified Dropoff, Collection, and Community Service Programs (non-buyback) operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Apr 17, 2024

Land Disposal Sites:

LDS

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

Government Publication Date: Mar 15, 2024

Leaking Underground Fuel Tank Reports:

LUST

List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.

Government Publication Date: Mar 15, 2024

Delisted Leaking Storage Tanks:

DELISTED LST

List of Leaking Underground Storage Tanks (LUST) cleanup sites removed from GeoTracker, the State Water Resources Control Board (SWRCB)'s database system, as well as sites removed from the SWRCB's list of UST Case closures.

Government Publication Date: Apr 4, 2024

Permitted Underground Storage Tank (UST) in GeoTracker:

UST

List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).

Government Publication Date: Jun 11, 2024

Proposed Closure of Underground Storage Tank Cases:

UST CLOSURE

This listing includes Proposed Closure of Underground Storage Tank (UST) Cases which are being considered for closure by either the State Water Resources Control Board at a Future Board Meeting or the Executive Director that have been posted for a 60-day public comment period, and Closure of UST Cases with Closure Denials and Approved Orders. The lists are provided by the California Water Boards.

Government Publication Date: Apr 4, 2024

Historical Hazardous Substance Storage Information Database:

HHSS

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.

Government Publication Date: Aug 27, 2015

Statewide Environmental Evaluation and Planning System:

UST SWEEPS

The Statewide Environmental Evaluation and Planning System (SWEEPS) is a historical listing of active and inactive underground storage tanks made available by the California State Water Resources Control Board (SWRCB).

Government Publication Date: Oct 1, 1994

Aboveground Storage Tanks:

AST

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.

Government Publication Date: Aug 31, 2009

SWRCB Historical Aboveground Storage Tanks:

AST SWRCB

A list of aboveground storage tanks made available by the California State Water Resources Control Board (SWRCB). Effective January 1, 2008, the Certified Unified Program Agencies (CUPAs) are vested with the responsibility and authority to implement the Aboveground Petroleum Storage Act (APSA).

Government Publication Date: Dec 1, 2007

Oil and Gas Facility Tanks:

TANK OIL GAS

Locations of oil and gas tanks that fall under the jurisdiction of the Geologic Energy Management Division of the California Department of Conservation (CalGEM) (CCR 1760). CalGEM was formerly the Division of Oil, Gas, and Geothermal Resources (DOGGR).

Government Publication Date: May 9, 2024

Delisted Storage Tanks:

DELISTED TNK

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM).

Government Publication Date: Jun 24, 2024

California Environmental Reporting System (CERS) Tanks:[CERS TANK](#)

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Apr 25, 2024

Delisted California Environmental Reporting System (CERS) Tanks:[DELISTED CTNK](#)

This database contains a list of Aboveground Petroleum Storage and Underground Storage Tank sites that were removed from in the California Environmental Protection Agency (CalEPA) Regulated Site Portal.

Government Publication Date: Apr 25, 2024

Historical Hazardous Substance Storage Container Information - Facility Summary:[HIST TANK](#)

The State Water Resources Control Board maintained the Hazardous Substance Storage Containers listing and inventory in the 1980s. This facility summary lists historic tank sites where the following container types were present: farm motor vehicle fuel tanks; waste tanks; sumps; pits, ponds, lagoons, and others; and all other product tanks. This set, published in May 1988, lists facility and owner information, as well as the number of containers. This data is historic and will not be updated.

Government Publication Date: May 27, 1988

Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions:[LUR](#)

The Department of Toxic Substances Control (DTSC) Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents land use restrictions that are active. Some sites have multiple land use restrictions.

Government Publication Date: Jun 25, 2024

CALSITES Database:[CALSITES](#)

This historical database was maintained by the Department of Toxic Substance Control (DTSC) for more than a decade. CALSITES contains information on Brownfield properties with confirmed or potential hazardous contamination. In 2006, DTSC introduced EnviroStor as the latest Brownfields site database.

Government Publication Date: May 1, 2004

Hazardous Waste Management Program Facility Sites with Deed / Land Use Restrictions:[HLUR](#)

The Department of Toxic Substances Control (DTSC) Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Government Publication Date: Feb 18, 2021

Deed Restrictions and Land Use Restrictions:[DEED](#)

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

Government Publication Date: Mar 15, 2024

Voluntary Cleanup Program:[VCP](#)

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: Jun 25, 2024

GeoTracker Cleanup Program Sites:[CLEANUP SITES](#)

A list of Cleanup Program sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.

Government Publication Date: Mar 15, 2024

Delisted Cleanup Program Sites:[DELISTED CLEANUP](#)

A list of Cleanup Program sites which were once included - and have since been removed from - the list of Cleanup Program Sites in GeoTracker. GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Government Publication Date: Mar 15, 2024

Delisted County Records:

DELISTED COUNTY

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: Jun 24, 2024

Tribal

Leaking Underground Storage Tanks on Tribal/Indian Lands:

INDIAN LUST

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 9, which includes California, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 7, 2024

Underground Storage Tanks on Tribal/Indian Lands:

INDIAN UST

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 9, which includes California, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 7, 2024

Delisted Tribal Leaking Storage Tanks:

DELISTED INDIAN LST

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 7, 2024

Delisted Tribal Underground Storage Tanks:

DELISTED INDIAN UST

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 7, 2024

County

Kings County - Underground Storage Tanks:

UST KINGS

List of Underground Storage Tanks made available by Kings County Environmental Health Services.

Government Publication Date: Dec 3, 2020

Kings County - CUPA Facility List:

CUPA KINGS

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Kings County. This list is made available by Kings County Department of Public Health which is appointed as CUPA for the county.

Government Publication Date: Dec 3, 2020

Additional Environmental Record Sources

Federal

PFAS Greenhouse Gas Emissions Data:

PFAS GHG

The U.S. Environmental Protection Agency's Greenhouse Gas Reporting Program (GHGRP) collects Greenhouse Gas (GHG) data from large emitting facilities (25,000 metric tons of carbon dioxide equivalent (CO₂e) per year), and suppliers of fossil fuels and industrial gases that results in GHG emissions when used. Includes GHG emissions data for facilities that emit or have emitted since 2010 chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures by DSSTox. PFAS emissions data has been identified for facilities engaged in the following industrial processes: Aluminum Production (GHGRP Subpart F), HCFC-22 Production and HFC-23 Destruction (Subpart O), Electronics Manufacturing (Subpart I), Fluorinated Gas Production (Subpart L), Magnesium Production (Subpart T), Electrical Transmission and Distribution Equipment Use (Subpart DD), and Manufacture of Electric Transmission and Distribution Equipment (Subpart SS). Over time, other industrial processes with required GHGRP reporting may include PFAS emissions data and the list of reportable gases may change over time.

Government Publication Date: May 9, 2024

On-Scene Coordinator Response Sites:

OSC RESPONSE

This list of On-Scene Coordinator (OSC) Response Sites is provided by the U.S. Environmental Protection Agency (EPA). OSCs are the federal officials responsible for monitoring or directing responses to all oil spills and hazardous substance releases reported to the federal government. OSCs coordinate all federal efforts with, and provide support and information to local, state, and regional response communities. An OSC is an agent of either EPA or the U.S. Coast Guard (USCG), depending on where the incident occurs. EPA's OSCs have primary responsibility for spills and releases to inland areas and waters. USCG OSCs have responsibility for coastal waters and the Great Lakes. In general, an OSC has the following key responsibilities during and after a response: Assessment, Monitoring, Response Assistance, and Evaluation.

Government Publication Date: Apr 4, 2024

Facility Registry Service/Facility Index:

FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Feb 9, 2024

Toxics Release Inventory (TRI) Program:

TRIS

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment. This database includes TRI Reporting Data for calendar years 1987 through 2021 and Preliminary Data for 2022.

Government Publication Date: Sep 20, 2023

PFOA/PFOS Contaminated Sites:

PFAS NPL

This list of Superfund Sites with Per- and Polyfluoroalkyl Substances (PFAS) detections is made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data, previously the list was obtained by EPA FOIA requests. EPA's Office of Land and Emergency Management and EPA Regional Offices maintain what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment. Limitations: Detections of PFAS at National Priorities List (NPL) sites do not mean that people are at risk from PFAS, are exposed to PFAS, or that the site is the source of the PFAS. The information in the Superfund NPL and Superfund Alternative Agreement (SAA) PFAS detection site list is years old and may not be accurate today. Site information such as site name, site ID, and location has been confirmed for accuracy; however, PFAS-related information such as media sampled, drinking water being above the health advisory, or mitigation efforts has not been verified. For Federal Facilities data, the other Federal agencies (OFA) are the lead agency for their data and provided them to EPA.

Government Publication Date: Jun 20, 2024

Federal Agency Locations with Known or Suspected PFAS Detections:

PFAS FED SITES

List of Federal agency locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS), made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data. EPA outlines that these data are gathered from several federal entities, such as the Federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration, Department of Transportation, and Department of Energy. The dates this data was extracted for the PFAS Analytic Tools range from 2022 to 2024. Sites on this list do not necessarily reflect the source/s of PFAS contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.

Government Publication Date: Apr 1, 2024

SSEHRI PFAS Contamination Sites:

PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Locations for the Known PFAS Contamination Sites are sourced from the PFAS Sites and Community Resources Map, credited to the Northeastern University's PFAS Project Lab, Silent Spring Institute, and the PFAS-REACH team. Disclaimer: The source conveys the data undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Access the following source link for the most current information: <https://pfasproject.com/pfas-sites-and-community-resources/>

Government Publication Date: May 19, 2023

National Response Center PFAS Spills:

[ERNS PFAS](#)

This Per- and Poly-Fluoroalkyl Substances (PFAS) Spills dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The National Response Center (NRC), operated by the U.S. Coast Guard, is the designated federal point of contact for reporting all oil, chemical, and other discharges into the environment, for the United States and its territories. This dataset contains NRC spill information from 1990 to the present that is restricted to records associated with PFAS and PFAS-containing materials. Incidents are filtered to include only records with a "Material Involved" or "Incident Description" related to Aqueous Film Forming Foam (AFFF). The keywords used to filter the data included "AFFF," "Fire Fighting Foam," "Aqueous Film Forming Foam," "Fire Suppressant Foam," "PFAS," "PERFL," "PFOA," "PFOS," and "Genx." Limitations: The data from the NRC website contains initial incident data that has not been validated or investigated by a federal/state response agency. Keyword searches may misidentify some incident reports that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS spills/release incidents.

Government Publication Date: Apr 17, 2024

PFAS NPDES Discharge Monitoring:

[PFAS NPDES](#)

This list of National Pollutant Discharge Elimination System (NPDES) permitted facilities with required monitoring for Per- and Polyfluoroalkyl (PFAS) Substances is made available via the U.S. Environmental Protection Agency (EPA)'s PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for Per- and Polyfluoroalkyl Substances (PFAS), limited to the years 2007 - present. EPA further advises the following regarding these data: currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis.

Government Publication Date: May 6, 2024

Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory:

[PFAS TRI](#)

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a per- or polyfluoroalkyl (PFAS) substance included in the U.S. Environmental Protection Agency's (EPA) consolidated PFAS Master List of PFAS Substances. Encompasses Toxics Release Inventory records included in the EPA PFAS Analytic Tools. The EPA's TRI database currently tracks information on disposal or releases of 770 individually listed toxic chemicals and 33 chemical categories from thousands of U.S. facilities and details about how facilities manage those chemicals through recycling, energy recovery, and treatment. This listing includes TRI Reporting Data for calendar years 1987 through 2021 and Preliminary Data for 2022.

Government Publication Date: Sep 20, 2023

Perfluorinated Alkyl Substances (PFAS) Water Quality:

[PFAS WATER](#)

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

PFAS TSCA Manufacture and Import Facilities:

[PFAS TSCA](#)

The U.S. Environmental Protection Agency (EPA) issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. This list is specific only to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl (PFAS) substances. Data file is sourced from EPA's PFAS Analytic Tools TSCA dataset which includes CDR/Inventory Update Reporting data from 1998 up to 2020. Disclaimer: This data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information.

Government Publication Date: Jan 5, 2023

PFAS Waste Transfers from RCRA e-Manifest :[PFAS E-MANIFEST](#)

This Per- and Poly-Fluoroalkyl Substances (PFAS) Waste Transfers dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. Every shipment of hazardous waste in the U.S. must be accompanied by a shipment manifest, which is a critical component of the cradle-to-grave tracking of wastes mandated by the Resource Conservation and Recovery Act (RCRA). According to the EPA, currently no Federal Waste Code exists for any PFAS compounds. To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: • PFAS • PFOA • PFOS • PERFL • AFFF • GENX • GEN-X (plus the Vermont state-specific waste codes). Limitations: Amount or concentration of PFAS being transferred cannot be determined from the manifest information. Keyword searches may misidentify some manifest records that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS waste transfers.

Government Publication Date: Apr 29, 2024

PFAS Industry Sectors:[PFAS IND](#)

This Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Sectors dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The EPA developed the dataset from various sources that show which industries may be handling PFAS including: EPA's Enforcement and Compliance History Online (ECHO) records restricted to potential PFAS-handling industry sectors; ECHO records for Fire Training Sites identified where fire-fighting foam may have been used in training exercises; and 14 CFR Part 139 Airports compiled from historic and current records from the FAA Airport Data and Information Portal. Since July 2006, all certificated Part 139 Airports are required to have fire-fighting foam onsite that meet certain military specifications, which to date have been fluorinated (Aqueous Film Forming Foam). Limitations: Inclusion in this dataset does not indicate that PFAS are being manufactured, processed, used, or released by the facility. Listed facilities potentially handle PFAS based on their industrial profile, but are unconfirmed by the EPA. Keyword searches in ECHO for Fire Training sites may misidentify some facilities and should not be considered to be an exhaustive list of fire training facilities in the U.S.

Government Publication Date: Jul 1, 2024

Hazardous Materials Information Reporting System:[HMIRS](#)

The Hazardous Materials Incident Reporting System (HMIRS) database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration.

Government Publication Date: May 29, 2024

National Clandestine Drug Labs:[NCDL](#)

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Nov 30, 2023

Toxic Substances Control Act:[TSCA](#)

The U.S. Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule. The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI). EPA CDR collections occur approximately every four years and reporting requirements change per collection.

Government Publication Date: May 12, 2022

Hist TSCA:[HIST TSCA](#)

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing:[FTTS ADMIN](#)

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

PRP

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

Government Publication Date: Apr 22, 2024

State Coalition for Remediation of Drycleaners Listing:

SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS):

ICIS

The Integrated Compliance Information System (ICIS) database contains integrated enforcement and compliance information across most of U.S. Environmental Protection Agency's (EPA) programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained by the EPA Headquarters and at the Regional offices. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.

Government Publication Date: Apr 13, 2024

Drycleaner Facilities:

FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. The EPA tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: May 5, 2024

Delisted Drycleaner Facilities:

DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: May 5, 2024

Formerly Used Defense Sites:

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset which applies to the Fiscal Year 2021 FUDS Inventory.

Government Publication Date: May 15, 2023

FUDS Munitions Response Sites:

FUDS MRS

Boundaries of Munitions Response Sites (MRS), published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial MRS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) MRS dataset.

Government Publication Date: May 15, 2023

Former Military Nike Missile Sites:

FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents:

PIPELINE INCIDENT

This list of flagged pipeline incidents is made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types. Accidents reported on hazardous liquid gravity lines (§195.13) and reporting-regulated-only hazardous liquid gathering lines (§195.15) and incidents reported on Type R gas gathering (§192.8(c)) are not included in the flagged incident file data.

Government Publication Date: May 6, 2024

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites:

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File:

MINES

The Master Index File (MIF) is provided by the United States Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: Feb 5, 2024

Surface Mining Control and Reclamation Act Sites:

SMCRA

This inventory of land and water impacted by past mining (primarily legacy coal mining operations) is maintained by the U.S. Department of the Interior's Office of Surface Mining Reclamation and Enforcement (OSMRE), as it provides information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). This inventory contains information on the type and extent of Abandoned Mine Land (AML) Problems, as well as information on the cost associated with the reclamation of those problems. The data is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed. Disclaimer: Per the OSMRE, States and tribes who enter their data into e-AMLIS (AML Inventory System) may truncate their latitude and longitude so the precise location of usually dangerous AMLs is not revealed in an effort to protect the public from searching for these AMLs, most of which are on private property. If more precise location information is needed, please contact the applicable state/tribe of interest.

Government Publication Date: May 20, 2024

Mineral Resource Data System:

MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

DOE Legacy Management Sites:

LM SITES

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Title II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: Dec 12, 2023

Alternative Fueling Stations:

ALT FUELS

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG), and Renewable Diesel (R20 and above) fuel type locations.

Government Publication Date: Apr 30, 2024

Superfunds Consent Decrees:

CONSENT DECREES

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Cases filed since 2010 limited to the following: Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS); and applicable ENRD's Environmental Defense Section (EDS) CERCLA Cases with "Consent" in History Note. CMS may not reflect the latest developments in a case, nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Jun 26, 2024

Air Facility System:

AFS

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments:

SSTS

This national list of active EPA-registered foreign and domestic pesticide and/or device-producing establishments is based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that each producing establishment must place its EPA establishment number on the label or immediate container of each pesticide, active ingredient or device produced. An EPA establishment number on a pesticide product label identifies the EPA registered location where the product was produced. The list of establishments is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Feb 29, 2024

Polychlorinated Biphenyl (PCB) Transformers:

PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers:

PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: May 23, 2024

State

PFAS Sampling Locations:[PFAS SAMPLING](#)

This data is sourced from the State Water Board's GeoTracker Per- and Polyfluoroalkyl Substances (PFAS) Map tool which contains individual sampling points (i.e., soil boring, groundwater monitoring well, drinking water well for municipal drinking water systems, etc.) or a site location with PFAS analytical data. Includes analytical results that are finalized and submitted electronically by the Responsible Parties via GeoTracker's Electronic Submittal of Information Portal, and after it's accepted by a Regional Water Quality Control Board.

Government Publication Date: Jun 28, 2024

Dry Cleaning Facilities:[DRYCLEANERS](#)

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: Dec 20, 2021

Delisted Drycleaners:[DELISTED DRYCLEANERS](#)

Sites removed from the list of drycleaner related facilities that have EPA ID numbers, made available by the California Department of Toxic Substance Control.

Government Publication Date: Jan 31, 2022

Non-Toxic Dry Cleaning Incentive Program:[DRYC GRANT](#)

A list of grant recipients of the Non-Toxic Dry Cleaning Incentive Program made available by the California Air Resources Board (CARB). The program provides grants to eligible dry cleaning businesses to assist them in transitioning away from PERC machines to alternative non-toxic and non-smog forming technologies.

Government Publication Date: Jan 31, 2022

PFAS GeoTracker Cleanup Sites:[PFAS GT CLEANUPS](#)

A list of applicable cleanup sites from the State Water Resources Control Board's (SWRCB) GeoTracker data management system where one or more of the potential contaminants of concern are identified in the PFAS Master List of PFAS Substances made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Mar 15, 2024

PFOA/PFOS Groundwater:[PFAS GW](#)

A list of water wells from the Groundwater Ambient Monitoring and Assessment Program (GAMA) Groundwater Information System with the groundwater chemical perfluorooctanoic acid (PFOA) (NL = 0.014 UG/L) or perfluorooctanoic sulfonate (PFOS) (NL = 0.013 UG/L). The GAMA Groundwater Information System search is made available by California Water Boards.

Government Publication Date: Jan 7, 2024

PFAS Investigations:[PFAS INVEST](#)

This list of potential Per- and Polyfluoroalkyl Substance (PFAS) sites is compiled from the California State Water Resources Control Board's (SWRCB) PFAS Investigations Map tool. The SWRCB issued investigative orders, per California Water Code (CWC) Section 13267 and/or 13383, to these sites. Orders were also issued to the public water systems to sample wells in the vicinity of these locations. Military facilities have been identified by the Department of Defense (DOD) as part of their efforts to investigate PFAS per the Defense Environmental Restoration Program (DERP) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The data includes locations for Airports, Chrome Plating Facilities, Landfills, Publicly Owned Treatment Works, Refineries and Bulk Terminals, DOD Facilities, and Monitored Drinking Water Wells being investigated for potential PFAS.

Government Publication Date: Jan 23, 2024

Hazardous Waste and Substances Site List - Site Cleanup:[HWSS CLEANUP](#)

The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements in providing information about the location of hazardous materials release sites. This list is published by California Department of Toxic Substance Control.

Government Publication Date: Mar 15, 2023

Toxic Pit Cleanup Act Sites:[TOXIC PITS](#)

The Toxic Pits Cleanup Act (TPCA) list identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. This list was maintained by the State Water Resources Control Board (SWRCB), is no longer maintained, and updates are not planned.

Government Publication Date: Jul 1, 1995

List of Hazardous Waste Facilities Subject to Corrective Action:

DTSC HWF

This is a list of hazardous waste facilities identified in Health and Safety Code (HSC) § 25187.5. These facilities are those where Department of Toxic Substances Control (DTSC) has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment.

Government Publication Date: Jul 18, 2016

EnviroStor Inspection, Compliance, and Enforcement:

INSP COMP ENF

A list of permitted facilities with inspections and enforcements tracked by the California Department of Toxic Substance Control's (DTSC) EnviroStor data management system.

Government Publication Date: Nov 23, 2023

School Property Evaluation Program Sites:

SCH

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: Jun 25, 2024

California Hazardous Material Incident Report System (CHMIRS):

CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Apr 23, 2024

Historical California Hazardous Material Incident Report System (CHMIRS):

HIST CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Jan 1, 1993

Handlers from Hazardous Waste Manifest Data:

HAZNET

A list of handlers not otherwise classified as Treatment, Storage, Disposal facilities (TSDF) or generators from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Oct 24, 2016

Generators from Hazardous Waste Manifest Data:

HAZ GEN

List of handlers listed as having generated waste from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Dec 31, 2017

TSDF from Hazardous Waste Manifest Data:

HAZ TSD

List of Treatment, Storage, and Disposal Facilities (TSDFs) from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Dec 31, 2017

Historical Hazardous Waste Manifest Data:

HIST MANIFEST

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Dec 31, 1992

DTSC Registered Hazardous Waste Transporters:

HW TRANSPORT

The California Department of Toxic Substances Control (DTSC) maintains this list of Registered Hazardous Waste Transporters.

Government Publication Date: Apr 15, 2024

Registered Waste Tire Haulers:

WASTE TIRE

This list of registered waste tire haulers is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Mar 25, 2024

California Medical Waste Management Program Facility List:[MEDICAL WASTE](#)

This list of Medical Waste Management Program Facilities is maintained by the California Department of Public Health. The Medical Waste Management Program (MWMP) regulates the generation, handling, storage, treatment, and disposal of medical waste by providing oversight for the implementation of the Medical Waste Management Act (MWMA). The MWMP permits and inspects all medical waste off-site treatment facilities, medical waste transporters, and medical waste transfer stations. This list contains transporters, treatment, and transfer facilities.

Government Publication Date: Apr 15, 2024

Historical Cortese List:[HIST CORTESE](#)

List of sites which were once included on the Cortese list. The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements for providing information about the location of hazardous sites.

Government Publication Date: Nov 13, 2008

Cease and Desist Orders and Cleanup and Abatement Orders:[CDO/CAO](#)

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

Government Publication Date: Dec 6, 2021

California Environmental Reporting System (CERS) Hazardous Waste Sites:[CERS HAZ](#)

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Apr 25, 2024

Delisted Environmental Reporting System (CERS) Hazardous Waste Sites:[DELISTED HAZ](#)

This database contains a list of sites that were removed from the California Environmental Protection Agency (CalEPA) in the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator.

Government Publication Date: Nov 29, 2018

Sites in GeoTracker:[GEOTRACKER](#)

GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. This is a list of sites in GeoTracker that aren't otherwise categorized as LUST, Land Disposal Sites (LDS), Cleanup Sites, or sites having Waste Discharge Requirements (WDR). This listing includes program types such as Underground Injection Control (UIC), Confined Animal Facilities (CAF), Irrigated Lands Regulatory Program, plans, and non-case information.

Government Publication Date: Mar 15, 2024

Mines Listing:[MINE](#)

This list includes mine site locations extracted from the Mines Online database, maintained by the California Department of Conservation. Mines Online (MOL) is an interactive web map designed with GIS features that provide information such as the mine name, mine status, commodity sold, location, and other mine specific data. Please note: Mine location information is provided to assist experts in determining the location of mine operators in accordance with California Civil Code section 1103.4 and reflects information reported by mine operators in annual reports provided under Public Resources Code section 2207. While the Division of Mine Reclamation (DMR) attempts to populate MOL with accurate location information, the DMR cannot guarantee the accuracy of operator reported location information.

Government Publication Date: Jun 16, 2023

Recorded Environmental Cleanup Liens:[LIEN](#)

The California Department of Toxic Substance Control (DTSC) maintains this list of liens placed upon real properties. A lien is utilized by the DTSC to obtain reimbursement from responsible parties for costs associated with the remediation of contaminated properties.

Government Publication Date: Dec 18, 2023

Waste Discharge Requirements:[WASTE DISCHG](#)

List of sites in California State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDRs) Program in California, made available by the SWRCB via GeoTracker. The WDR program regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Toxic Pollutant Emissions Facilities:

[EMISSIONS](#)

A list of criteria and toxic pollutant emissions data for facilities in California made available by the California Environmental Protection Agency - Air Resources Board (ARB). Risk data may be based on previous inventory submittals. The toxics data are submitted to the ARB by the local air districts as requirement of the Air Toxics "Hot Spots" Program.

Government Publication Date: Dec 31, 2021

Clandestine Drug Lab Sites:

[CDL](#)

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/ clandestine drug laboratories.

Government Publication Date: Jan 19, 2021

Tribal

No Tribal additional environmental record sources available for this State.

County

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

EXHIBIT C-2

GENERAL PUBLIC RECORDS

THIS MAP IS FOR ASSESSMENT PURPOSES ONLY.
IT IS NOT TO BE CONSTRUED AS PORTRAYING
LEGAL OWNERSHIP OF DIVISIONS OF LAND FOR
PURPOSES OF ZONING OR SUBDIVISION LAW.
AUGUST 2023

Copyright © 1997, Kings County Assessor's Office
All Rights Reserved

APPENDIX D

INTERVIEW RECORDS

RECORD OF COMMUNICATION						
Project Name: Proposed Development				Location (city): Hanford, California		
Communication with: Eddie Warmerdam						
Of: Owner of north Subject Property parcel						
Location: Fresno, CA				Phone: 559 308-0884		
Communication via	☒	Telephone	☐	Letter	☐	In Person
Recorded By: Paul Humphrey				Of: Paul Humphrey, EP		
At: (time): 0930				On (date): July 16, 2024		
Re: Property Use						
Summary of Communication: Mr. Warmerdam was not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Subject Property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Subject Property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products. Mr. Warmerdam indicated that his family has owned the north Subject Property since the late 1980s and have leased farmed the south Subject Property parcel most of that time and use has always been farmed land.						
Conclusions/Required Action/Follow-up: None						

RECORD OF COMMUNICATION						
Project Name: Proposed Development				Location (city): Hanford, California		
Communication with: Clerk						
Of: Kings County Department of Environmental Health						
Location: Hanford, CA				Phone: 559-584-1401		
Communication via	☒	Telephone	☐	Letter	☐	In Person
Recorded By: Paul Humphrey				Of: Paul Humphrey, EP		
At: (time): 1030				On (date): July 26, 2024		
Re: Records						
Summary of Communication:						
No records were identified.						
Conclusions/Required Action/Follow-up: None						

RECORD OF COMMUNICATION						
Project Name: Proposed Development				Location (city): Hanford, California		
Communication with: Clerk						
Of: Hanford Planning and Development Department						
Location: Hanford, CA				Phone: 559		
Communication via		Telephone		Letter	X	In Person
Recorded By: Paul Humphrey				Of: Paul Humphrey, EP		
At: (time): 1400				On (date): July 26, 2024		
Re: Records						
Summary of Communication: No records of land use limitations associated with the Subject Property.						
Conclusions/Required Action/Follow-up: None						

RECORD OF COMMUNICATION						
Project Name: Proposed Development				Location (city): Hanford, California		
Communication with: Receptionist						
Of: City of Hanford Fire						
Location: Hanford, CA				Phone: 559 621-4199		
Communication via	☒	Telephone	☐	Letter	☐	In Person
Recorded By: Paul Humphrey				Of: Paul Humphrey, EP		
At: (time): 1445				On (date): July 26, 2024		
Re: Records						
Summary of Communication: According to the clerk, no record was identified for the Subject Property and the area is under the jurisdiction of the Kings County Department of Environmental Health.						
Conclusions/Required Action/Follow-up: None						

APPENDIX E

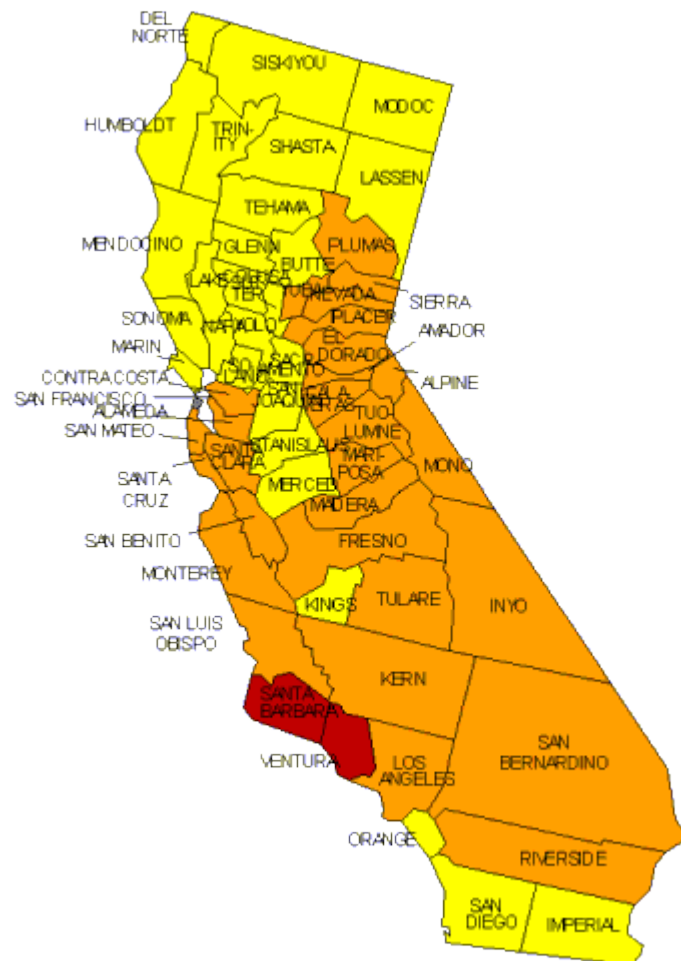
CLIENT PROVIDED DOCUMENTATION

NOT APPLICABLE FOR THIS REPORT

APPENDIX F

OTHER SUPPORTING DOCUMENTATION

- Zone 1** Highest Potential (greater than 4 pCi/L)
- Zone 2** Moderate Potential (from 2 to 4 pCi/L)
- Zone 3** Low Potential (less than 2 pCi/L)



PAUL HUMPHREY, EP
7402 E. CLINTON AVENUE
FRESNO, CALIFORNIA 93737
(559) 977-9813

RADON MAP
N↑

APPENDIX G

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Paul J. Humphrey, REPA, CAC

Education: College of the Sequoias, Visalia, California
Associate of Science in Biology, 1994

Licenses/Registrations: Registered Environmental Property Assessor #827718
Certified Asbestos Consultant, #03-3495

Years of Experience: Twenty Four

Summary of Professional Experience

Mr. Humphrey has more than twenty years experience in the environmental field including asbestos surveys, asbestos abatement monitoring and project design, environmental site assessment, soil and groundwater assessment and is an Environmental Professional as defined by the Environmental Protection Agency. Mr. Humphrey has conducted more than 2,000 Phase I Environmental Site Assessments of commercial, industrial, agricultural and multi-family residential properties in California, Nevada, Arizona, and Washington. Mr. Humphrey has more than two years experience in the ground-up development and management of a Hazardous Building Materials Department for a local environmental and engineering firm. Mr. Humphrey has also provided regulatory guidance, assessments, and asbestos surveys and monitoring to utility companies, flood control districts, public works departments, and branches of the military as part of facility expansion projects as well as new site development.

Mr. Humphrey's experience has included preliminary environmental assessments and various soil and groundwater investigations for highway expansion for the State of California Department of Transportation. Projects for the State of California highway expansion also included asbestos surveys of bridges and overpasses.

For a national environmental consulting firm, Mr. Humphrey served as Project Coordinator, where he performed and managed asbestos abatement oversight projects for national clients. Mr. Humphrey has also conducted environmental site assessments on multi-site industrial and commercial properties for various national financial institutions, developers, and property management companies. Assessments included limited and comprehensive surveys for asbestos, lead-based paint, lead-in-drinking-water and radon gas emissions.

Appendix F

Water Supply Assessment

**Water Supply Assessment
For
MFI Limited
Copper Ridge Development**

January 13th, 2025

Prepared by:



WALLACE GROUP

**612 Clarion Court
San Luis Obispo, CA 93401
805 544-4011
Job Number: 1293-0003**



TABLE OF CONTENTS

SECTION 1 INTRODUCTION	1-1
1.1 OBJECTIVE AND PURPOSE.....	1-1
1.2 REGULATORY REQUIREMENTS	1-1
1.3 PROJECT LOCATION AND DESCRIPTION	1-1
1.4 PROJECT SPECIFIC WATER RESOURCES.....	1-2
SECTION 2 PROJECT WATER DEMAND	2-1
2.1 PROJECTED WATER DEMAND	2-1
2.2 PROJECT PHASING	2-5
SECTION 3 WATER SUPPLY SUFFICIENCY	3-1
3.1 AVAILABLE WATER SUPPLY	3-1
SECTION 4 CONCLUSION	4-1



LIST OF TABLES

Table 1. Copper Ridge Development Phasing.....	1-2
Table 2. Indoor Residential Water Demand –Method 1.....	2-2
Table 3. Outdoor Residential Water Demand – Method 1.....	2-3
Table 4. Indoor & Outdoor Residential Water Demand – Method 2.....	2-4
Table 5. Method 1 and Method 2 Residential Demand Comparison Table.....	2-4
Table 6. Commercial Water Demand.....	2-5
Table 7. Estimated Water Demand for Project.....	2-5
Table 8. Copper Ridge Phased Demand.....	2-6
Table 9. Available Water Supply and Project Demand	3-1

LIST OF FIGURES

Figure 1. Project Location Map.....	1-2
-------------------------------------	-----

LIST OF ATTACHMENTS

Attachment A. Tentative Subdivision Map Copper Ridge
Attachment B. Tulare Lake Hydrologic Region
Attachment C. Tulare Lake Subbasin
Attachment D. 2020 City of Hanford Land Use Map
Attachment E. 2035 City of Hanford Land Use Map

SECTION 1

INTRODUCTION

This Section discusses the objective and purpose of this document as well as the applicable regulatory criteria and requirements.

1.1 OBJECTIVE AND PURPOSE

This water supply assessment (WSA) was developed to present the potential impacts of the proposed Copper Ridge Development on the water supplies of the City of Hanford, California.

This document's purpose is to ensure that water providers, local planning agencies, and other stakeholders understand whether there is sufficient water supply in normal, dry, and multiple dry years, in a 20-year period, to meet the project demands.

1.2 REGULATORY REQUIREMENTS

Senate Bill 610 (SB-610), passed in September 2001, supplements the California Water Code (CWC), requiring the preparation of a WSA when the project is subjected to the California Environmental Quality Act (CEQA) and other qualifying requirements. SB-610 helps to coordinate water supply availability and land use decisions made by cities and counties. This measure seeks a collaborative planning approach between water providers, local planning agencies, city, and county. SB-610 requires that water assessments must be furnished to local government to be incorporated as needed in documents for certain projects when subjected to CEQA. Senate Bill 221 (SB-221), passed in September 2001, requires that qualifying projects including those proposing 500 dwelling units or more, obtain a written verification of sufficient water supply from the water supplier.

1.3 PROJECT LOCATION AND DESCRIPTION

The proposed 83.61-acre project, named Copper Ridge Development, is located in Hanford in King's County, California. The project is at the corner of Grangeville Boulevard and 9 ¼ Avenue, as shown in Figure 1. The tentative subdivision maps for the project are included in Attachment A. The Assessor's Parcel Numbers (APN) for the proposed site are 014-143-069 and 014-143-078. This site is not within the FEMA 100-year flood plain. The development will be built on existing vacant agricultural land.



Figure 1. Project Location Map

The Copper Ridge development consists of 356 single family and 302 multi-family residential units on 78.16 acres, and a 5.45-acre commercial zone, per Table 1. The lot sizes will range from 2,800 square feet (SF) to 10,148 SF. Housing density is 8.41 units per acre. The development is divided into five proposed phases; a summary of unit count by phase is presented in Table 1. These single-family units, multi-family units, and commercial space will be connected to the City of Hanford water system.

Table 1. Copper Ridge Development Phasing

Phase	Total Unit Count	Single Family Units	Multi-Family Units	Commercial
Phase 1	181	181	-	-
Phase 2	150	150	-	-
Phase 3	95	25	70	-
Phase 4	112	-	112	-
Phase 5	120	-	120	5.45 Acres
Total	658	356	302	5.45 Acres

1.4 PROJECT SPECIFIC WATER RESOURCES

In this section the project specific details are discussed including those related to CWC and Senate Bill SB-610 project definitions and requirements, proposed public water systems, groundwater sustainability, and the referenced Urban Water Management Plan (UWMP) for the City of Hanford.¹

1.4.1 WSA QUALIFYING PROJECT

CWC and SB-610 connect water supply and land use. SB-610 creates the legal framework for evaluating the adequacy of water supply for new developments that meet the qualification criteria of a regulated project. CWC Section 10912 (a) defines a project as:

- (1) A proposed residential development of more than 500 dwelling units.*
- (2) A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.*
- (3) A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.*
- (4) A proposed hotel or motel, or both, having more than 500 rooms.*
- (5) A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.*
- (6) A mixed-use project that includes one or more of the projects specified in this subdivision.*
- (7) A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.*

Copper Ridge qualifies as a regulated project under these criteria as it proposes constructing 566 dwelling units, surpassing the 500 dwelling unit threshold. Therefore, this WSA has been prepared to assist in responding to the following questions that must be addressed under SB-610:

1. Is there a public waters system that will service the project?
2. Is there a current Urban Water Management Plan (UWMP) that accounts for the project demand?
3. Is groundwater a component of the supplies for the project?
4. Are there sufficient supplies to serve the project over the next 20 years?

¹ 2021, Akel Engineering Group, *City of Hanford 2020 Urban Water Management Plan*, October.

1.4.2 PUBLIC WATER SYSTEM

Under CWC Section 10912, an urban public water system (PWS) is defined as a system that has 3,000 or more service connections and provides piped water to the public for human consumption. The proposed PWS for Copper Ridge is owned and maintained by the City of Hanford. This system spans over 203 miles and has over 15,900 service connections.²

Per SB-610 the WSA must be prepared and furnished to the lead agency by the water utility serving the proposed project for inclusion in environmental documents as required by CWC Section 10912 (a) and CEQA. The CWC requires:

“...the governing body of each public water system shall submit the assessment to the city or county not later than 90 days from the date on which the request was received. The governing body of each public water system, or the city or county if either is required to comply with this act pursuant to subdivision (b), shall approve the assessment prepared pursuant to this section at a regular or special meeting.”

SB-610 requires the PWS serving the project area to prepare the WSA.

1.4.3 GROUNDWATER SUSTAINABILITY

The City of Hanford obtains its water supply solely from groundwater. Hanford’s water supply system consists of 14 active wells ranging from 600 to 1,700 feet deep and total supply capacity of 34.5 mgd (31.6 mgd firm capacity). The water distribution system includes three reservoirs with a cumulative storage capacity of 3.5 million gallons.

The California Department of Water Resources (DWR) divided California into ten hydrological regions. The City of Hanford is located in Region 7 – Tulare Lake, as shown in Attachment B. Hanford’s groundwater supply comes from the Tulare Lake subbasin (Attachment C) which is approximately 837 square miles and part of the San Joaquin Valley basin. Tulare Lake subbasin has been classified as a high-priority basin. The City of Hanford is a participant in the development of the Mid-Kings River Groundwater Sustainability Agency’s (MKR GSA) Groundwater Sustainability Plan (GSP) for Tulare Lake. According to the UWMP, the Tulare Lake Groundwater Subbasin is not adjudicated and the DWR has classified the basin as Type B, indicating that there is substantial data to estimate the groundwater extraction to meet local needs but not enough data to estimate the groundwater budget. The UWMP states (pg. 7-6):

“Because the City utilizes groundwater as its sole source of supply, the available “supply” drawn from the aquifer in any year is equal to the system-wide water demand for that particular year.”

² Per City of Hanford Water Supply: <https://www.ci.hanford.ca.us/1569/Water-Information>

DWR estimates the total water storage of the subbasin as 17,100,000 acre-feet (AF) to a depth of 300 feet and 82,500,000 AF to the base of fresh groundwater. The GSP has not restricted the maximum groundwater available for supply.³

On April 16th, 2024, the State Water Resources Control Board (SWRCB) designated the Tulare Lake Subbasin as probationary. As of November 7th, 2024, and at the time of preparation of this WSA, the probationary designation has been suspended due to litigation. Therefore, SWRCB impacts, or subsequent groundwater management implications, have not been included in this report but must be considered if enacted.

1.4.4 URBAN WATER MANAGEMENT PLAN

An Urban Water Management Plan (UWMP) is one of the foundational documents for a WSA. The latest UWMP for the City of Hanford was published in 2020. UWMP are updated and issued to the DWR every 5 years. UWMP's are critical to the preparation of a WSA, as the DWR notes they can provide more than the required information to satisfy the SB-610 requirements. When an urban water supplier delivers more than 3,000 acre-feet/year (AFY) or serves more than 3,000 connections, running a water sufficiency analysis over 20 years for normal, dry, and multiple dry year scenarios is required. The City of Hanford has more than 15,900 service connections, meaning the water sufficiency analysis has been included in the UWMP, and serves as one of the bases for this WSA.

³ Tulare Lake Annual Subbasin Report <https://www.midkingsrivergsa.org/assets/2022wy-tulare-lake-subbasin-annual-report.pdf>

SECTION 2

PROJECT WATER DEMAND

The estimated project water demand calculations and results are presented in this Section.

2.1 PROJECTED WATER DEMAND

The projected water usage for the 356 single-family units and 302 multi-family units is shown in Table 5. Two different methods were used to estimate a range of residential water usage. The first method estimates indoor and outdoor water usage on a per dwelling unit basis (i.e., individual lot) with results summarized in Table 4. Indoor water demand was estimated assuming an occupancy of 2.96 persons per household, equal to the occupancy rate cited in the 2020 UWMP, and a demand of 50 gallons per capita per day (gpcd). California State Water Code Section 10608.20 uses a target indoor water demand factor of 55 gpcd as an option for agencies in complying with water conservation requirements which reduces to 42 gpcd by 2030; this analysis assumes 50 gpcd.

To estimate outdoor water use, an estimate of landscape area per lot was made based on the average single family and multi-family (duplex and 8-unit multiplex) lot sizes and building floor plans. The ratio of lot size to landscaped area was reviewed for each of the proposed residential floor plans and an average ratio was calculated to estimate landscape area for an average single family, duplex, and 8-unit multiplex lot. Common area water demand is the water demand for areas outside of the individual lots which would be maintained by a homeowners' association (HOA).

The second method used to estimate residential water demand, relies on a water duty demand factor from the 2017 Water System Master Plan (WSMP) based on land use type and acreage which provides an estimate of total water usage (indoor and outdoor combined; see Tables 2 and 3).

Table 5 compares the difference in projected residential water demand between Method 1: Water Use per Dwelling Unit, and Method 2: Water Duty Demands.

Table 2. Indoor Residential Water Demand –Method 1

Residence Type	DU per Acre	Indoor Per Capita Use (gpcd)¹	Persons/du²	Indoor ADD (gpd/du)	Number of Units	Indoor Daily Consumption (gal)	Indoor annual consumption (AF)
Single Family Homes	8.5	50	2.96	148	356	52,688	59
Multi Family Duplex	12.3	50	2.96	148	182	26,936	30
Multi Family 8-unit	25.0	50	2.96	148	120	17,760	20
TOTAL				444	658	97,384	109

¹ California State Water Code Section 10608.20 uses a target indoor water demand factor of 55 gpcd as an option for agencies in complying with water conservation requirements which reduces to 42 gpcd by 2030; this analysis assumes 50 gpcd.

² Average Household Occupancy From 2020 Urban Water Management Plan

Table 3. Outdoor Residential Water Demand – Method 1

Residence Type	AVG Lot Size, SF	Landscaped area, SF	# of Lots	% Landscape Area	% Drought Tolerant Plants	% turf	Annual Ref Eto, in	Drought Tolerant Plants					Turf					Combined		
								Ornamental Plants, SF	Crop Coeff. Kc	Etc	Total Irrig. ¹ (in)	Vol. (gallons)	Area Turf, SF	Crop Coeff. Kc	Etc	Total Irrig. ² (in)	Vol. (gallons)	Vol. (gallons/year /DU)	Vol. (AF/year/ DU)	Total Vol. (AFY)
Single Family Homes	3,762	1,660	356	40%	75%	25%	59.6	1,245	0.3	17.88	22.07	17,131	415	0.8	47.68	63.57	16,445	33,576	0.10	36.68
Multi Family Duplex	3,100	650	182	21%	75%	25%	59.6	488	0.3	17.88	23.84	7,244	163	0.8	47.68	63.57	6,439	13,684	0.04	7.64
Multi Family 8plex	1,750	450	120	26%	75%	25%	59.6	338	0.3	17.88	23.84	5,015	113	0.8	47.68	63.57	4,458	9,473	0.03	3.49
Common Space	60,650	60,650	-	100%	75%	25%	59.6	45,488	0.3	17.88	23.84	675,956	15,163	0.8	47.68	63.57	600,850	1,276,806	3.92	3.92
																			Total	52

¹ Assumes irrigation efficiency of 81% for drought tolerant plants using drip irrigation.

² Assumes irrigation efficiency of 75% for turf overhead spray irrigation

Table 4. Indoor & Outdoor Residential Water Demand – Method 2

Residence Type	Area (ac)	Water Demand Factor (gpd/ac) ¹	Total Daily Consumption (gpd)	Total Annual Consumption (AFY)
Low Density Residential	78.16	1,810	141,470	159

¹ GPD/Acre from 2017 WSMP Table 3.3

Table 5. Method 1 and Method 2 Residential Demand Comparison Table

Estimated Water Demand		
Land Use Type	Method 1: Demand Per Dwelling Unit	Method 2: Demand per Acreage
<u>Residential</u>		
Indoor Annual Demand (gpd)	97,384	141,470
Outdoor Annual Demand (gpd)	46,183.8	
Total Demand (gpd)	143,567.8	141,469.6
<i>Total Demand (afy)</i>	<i>161.0</i>	<i>159.0</i>

Table 6 presents the projected water demands for commercial use. Copper Ridge is proposing 5.45 acres of commercial space. The commercial space consists of two 14,350 SF retail buildings, two 2,153 SF food buildings, and one 4,900 SF convenience/gas building. The two retail buildings and the food and convenience/gas buildings each take up roughly 50% of the commercial space, so it is assumed each is 2.73 acres. Commercial water demands were estimated using the water duty demand factors from the WSMP⁴. Retail buildings are assumed to be regional commercial land usage, and food and convenience/gas buildings as highway commercial.

Table 6. Commercial Water Demand

Commercial Use	Land Use Category	Area (AC)	Demand Factor (GPD/AC) ¹	Annual Demand (gpd)	Annual Demand (AFY)
Retail	Regional Commercial	2.73	820	2234.5	2.50
Food, Convenience/Gas	Highway Commercial	2.73	650	1771.3	1.98
			Total	4005.8	4.49

¹GPD/Acre from 2017 WSPM Table 3.3

The total estimated water demand for the Copper Ridge development is shown below in Table 7. System losses were extrapolated from the reported losses in Table 4-1 of the UWMP, using the total metered demand and system losses to create a loss percentage factor of 7.4%. The range of total projected water demand is 176-179 AFY.

Table 7. Estimated Water Demand for Project

Usage	Average AFY
Low Density Residential	159-161
Commercial	4.5
Losses (7.4%)	11.8-12.2
Total	176-179

2.2 PROJECT PHASING

At the time of development of this WSA, Phases 1,2, and 3 the project are assumed to be completed within the next five years and Phases 4 and 5 are planned to be finished in approximately seven years; buildout is anticipated within a 10-year planning timeframe. Table 8 presents a summary of the water demand phased over a 10-year period; the projection assumes the high end of the estimated water demand at buildout (i.e., 179 AFY).

⁴ 2017, Akel Engineering Group, *City of Hanford Water System Master Plan*, September.

Table 8. Copper Ridge Phased Demand

	Flow (acre-feet / year)				
	2025	2030	2035	2040	2045
Phase 1	0	53	53	53	53
Phase 2	0	44	44	44	44
Phase 3	0	23	23	23	23
Phase 4	0	0	26	26	26
Phase 5	0	0	31	31	31
Total	0	120	179	179	179

There are no projected demands for water needed to construct the development. At the time of development of this WSA, there is insufficient information available to provide a detailed projection of the construction water demands. It is recommended that construction water demands be estimated as the project progresses.

SECTION 3

WATER SUPPLY SUFFICIENCY

In this Section the projected water demand is compared to the available water supply.

3.1 AVAILABLE WATER SUPPLY

Copper Ridge development will receive water from the City of Hanford's PWS. Table 9 summarizes the projected demands estimated in this WSA and the PWS's supply and demand as reported in the UWMP. These supply and demand values are provided in acre-feet per year (AFY) for a 20-year period broken into five-year increments. Supply and demand are shown for three scenarios, a normal year, single dry year, and multiple dry years. During the single dry year and multiple dry year projections, a 11.6% demand factor increase has been applied to the project demands consistent with the approach taken in the UWMP to account for increased demand during periods of drought. Project demands from Table 8 and the project's share of supply are included. The project's share of supply is the percentage of the PWS supply needed to meet project demands.

Table 9. Available Water Supply and Project Demand

		Flow (AF)				
		2025	2030	2035	2040	2045
Normal Year	Supply	15,110	15,351	15,602	15,866	16,142
	Demand	11,632	12,172	12,478	13,351	13,982
	Project Demand	0	120	179	179	179
	Project % of Supply	0.0	0.8	1.1	1.1	1.1
Single Dry Year	Supply	15,110	15,351	15,602	15,866	16,142
	Demand	12,971	13,584	14,227	14,899	15,604
	Project Demand	0	134	200	200	200
	Project % of Supply	0.0	0.9	1.3	1.3	1.2
Multiple Dry Years - Year 1 (1987)	Supply	15,110	15,351	15,602	15,866	16,142
	Demand	12,971	13,584	14,227	14,899	15,604
	Project Demand	0	134	200	200	200
	Project % of Supply	0.0	0.9	1.3	1.3	1.2
Multiple Dry Years - Year 2 (1988)	Supply	15,110	15,351	15,602	15,866	16,142
	Demand	12,971	13,584	14,227	14,899	15,604
	Project Demand	0	134	200	200	200
	Project % of Supply	0.0	0.9	1.3	1.3	1.2
Multiple Dry Years - Year 3 (1989)	Supply	15,110	15,351	15,602	15,866	16,142
	Demand	12,971	13,584	14,227	14,899	15,604
	Project Demand	0	134	200	200	200
	Project % of Supply	0.0	0.9	1.3	1.3	1.2
Multiple Dry Years - Year 4 (1990)	Supply	15,110	15,351	15,602	15,866	16,142
	Demand	12,971	13,584	14,227	14,899	15,604
	Project Demand	0	134	200	200	200
	Project % of Supply	0.0	0.9	1.3	1.3	1.2
Multiple Dry Years - Year 5 (1991)	Supply	15,110	15,351	15,602	15,866	16,142
	Demand	12,971	13,584	14,227	14,899	15,604
	Project Demand	0	134	200	200	200
	Project % of Supply	0.0	0.9	1.3	1.3	1.2

Note: Supply and demand data is from the City of Hanford 2020 Urban Water Management Plan, Tables 7-2, 7-3, and 7-4

As mentioned in Section 1.4.3, groundwater is extracted as the supply is needed. Copper Ridge development is projected to add 176 to 179 acre-feet per year to the City's overall water demand. In 2035 when all phases of construction are assumed to be complete, the project will increase the total supply needed by approximately 1.1% of the projected supply (1.3% in a drought year).

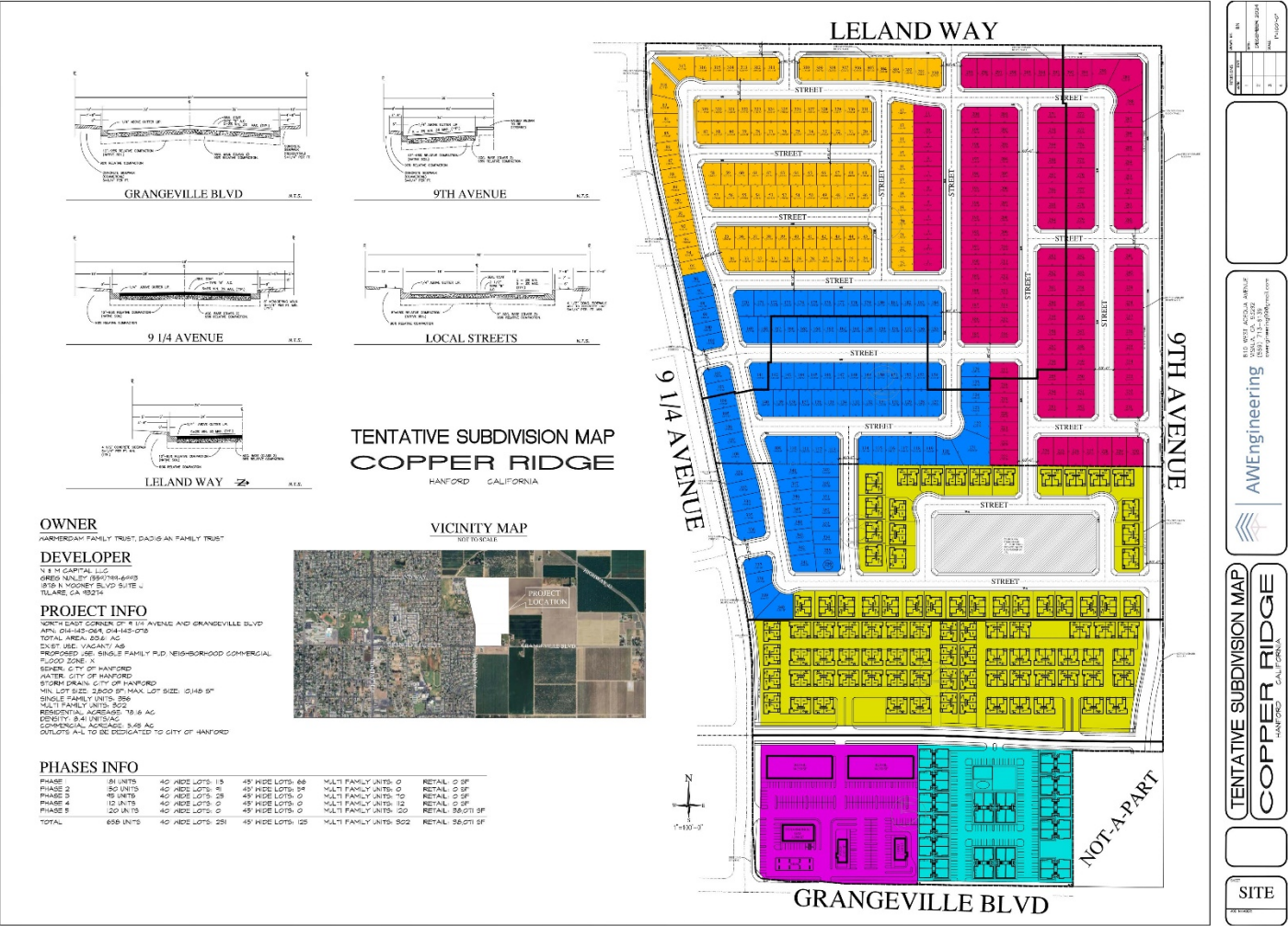
The UWMP outlines the current City limits and land use, as shown in Attachment D. Copper Ridge development is within the City's 2035 growth boundary. The predominantly low-density residential housing with commercial space is shown in a planned low- and medium-density residential zone, as shown in Attachment E. This growth area and corresponding land use were used in the 2017 WSMP as the basis for estimating future water demands, therefore, the City is actively planning for development in the area of proposed development and other areas within the growth boundary.

SECTION 4 CONCLUSION

Copper Ridge development is within the City General Plan's 2035 growth boundary. The development would be served by the City of Hanford's PWS, which relies on groundwater from the Lake Tulare subbasin. Water supply sufficiency is addressed in the City's 2020 UWMP which evaluates conditions under a single normal year, single dry year, and multiple dry years over a 20-year period. During the fifth year of a multiple dry year scenario, the Copper Ridge is expected to add up to 200 acre-feet of demand per year, which represents approximately 1.2% of the estimated 2045 water supply, indicating the Copper Ridge development will have a less than significant impact on the City's overall water supply.

This WSA is based primarily upon the City's latest adopted UWMP. This report cannot consider future regulation from the SWRCB or suspended groundwater basin probationary designation which may alter groundwater management policies. Based on a comparison of the project's demands compared to available supply, the City of Hanford shows sufficient water supply for the proposed project.

Attachment A: Tentative Subdivision Map Copper Ridge



Attachment B: Tulare Lake Hydrologic Region

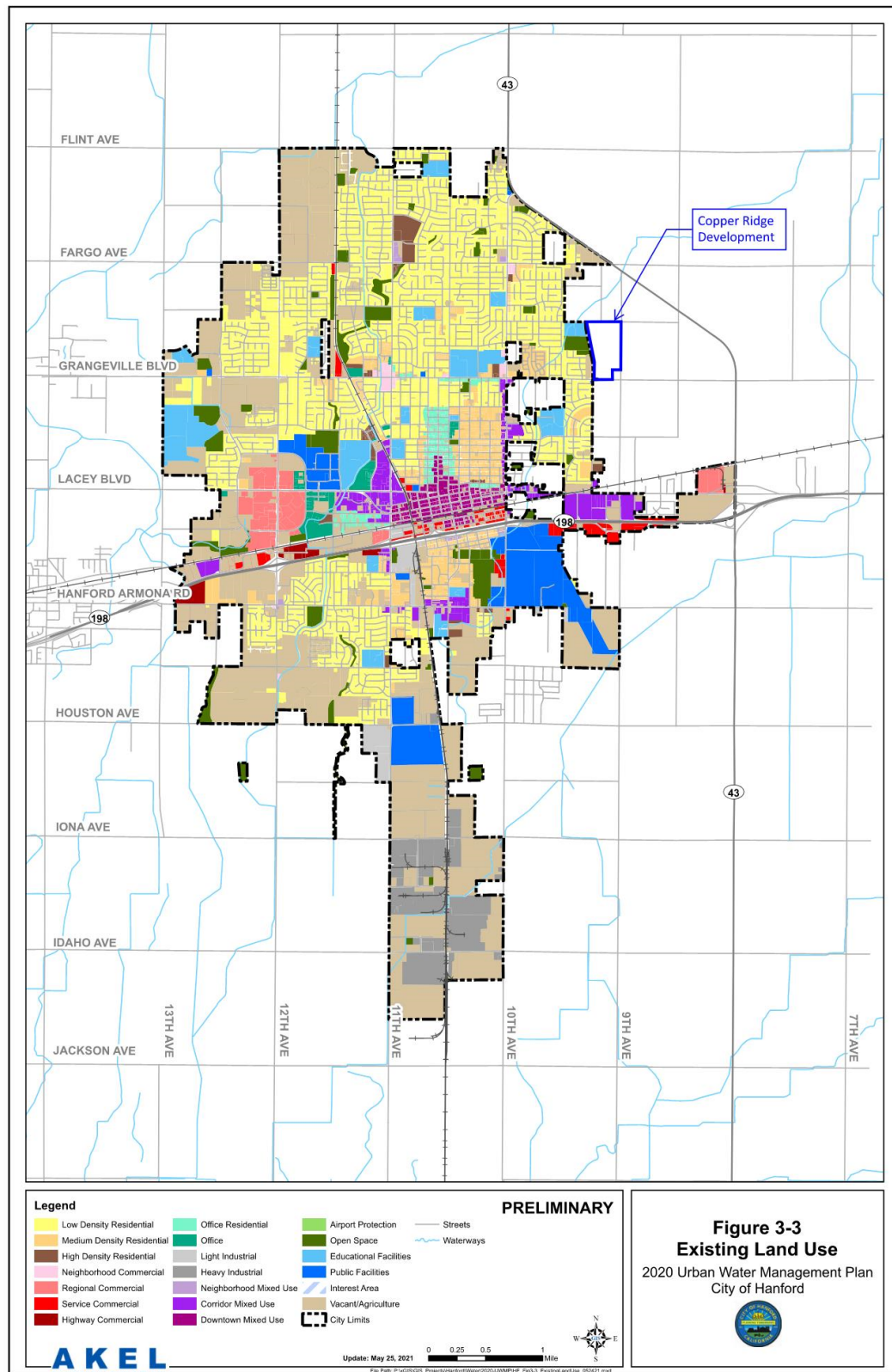
Figure 9-1 Tulare Lake Hydrologic Region



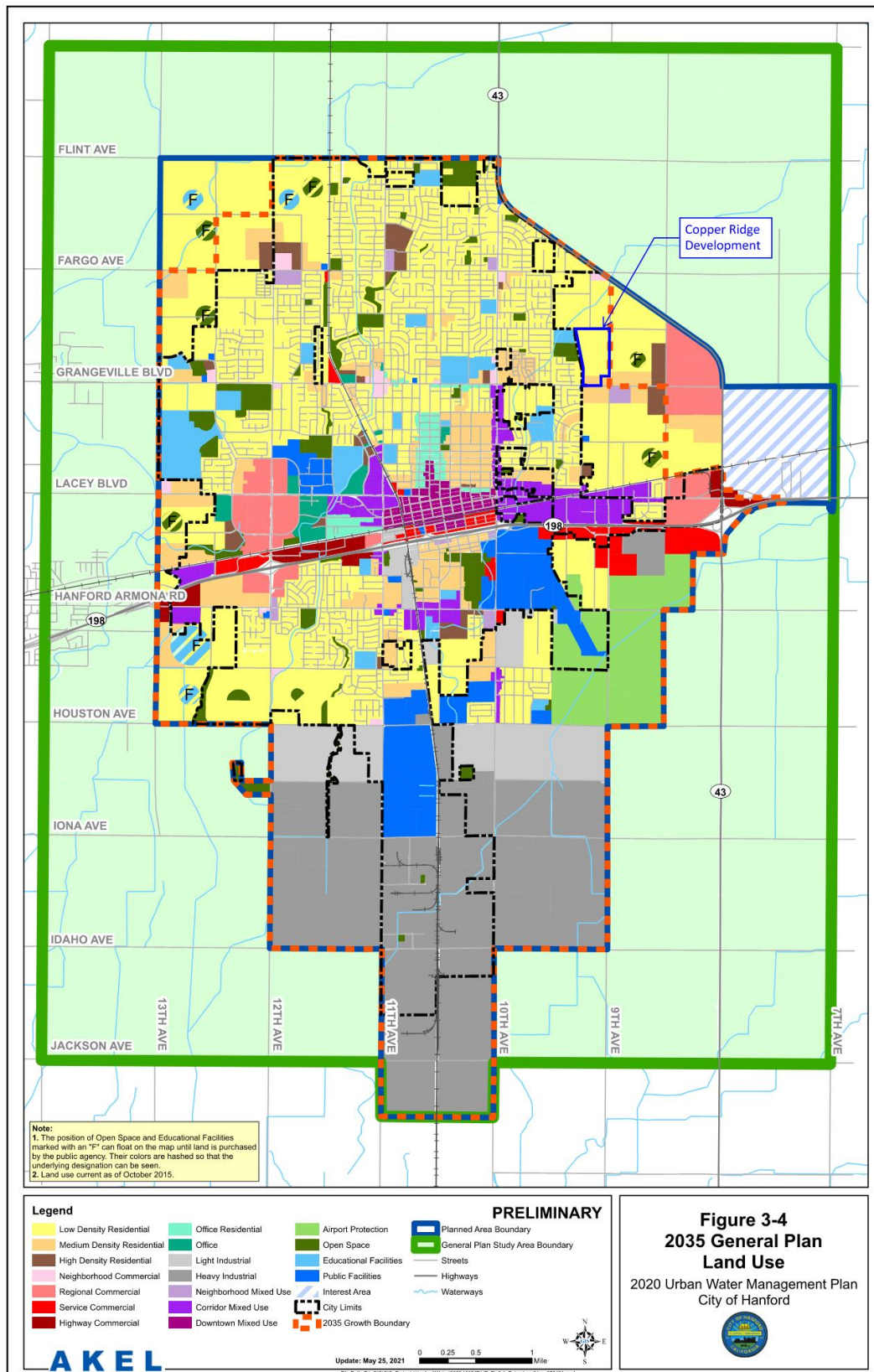
Attachment C: Tulare Lake Subbasin



Attachment D: 2020 City of Hanford Land Use Map



Attachment E: 2035 City of Hanford Land Use Map



Appendix G

Traffic Analysis

Traffic Evaluation for the Copper Ridge Project

Hanford, California

DRAFT REPORT

December 2024

Prepared for:
Greg Nunley
1878 N. Mooney Blvd., Suite J
Tulare, CA 93274

Prepared by:
C2 Consult Corp
1401 Wewatta St., Suite 516
Denver, Co 80202

Charles Clouse, Principal



[https://d.docs.live.net/1908e84e76e68192/Desktop/C2 Consult/Projects/1341.13 Nunley Development - Copper Ridge VMT/Work Product/Copper Ridge VMT.doc](https://d.docs.live.net/1908e84e76e68192/Desktop/C2%20Consult/Projects/1341.13%20Nunley%20Development%20-%20Copper%20Ridge%20VMT/Work%20Product/Copper%20Ridge%20VMT.doc)

This report and the data contained herein have been prepared expressly for the purposes of this project. The use of this data, the conclusions contained in the report or the information provided herein by individuals or agencies is done so at their sole discretion and at their own responsibility. Publication of this document does not warrant the use of the data, the conclusions or the information for any purpose other than that described within this report.

TABLE OF CONTENTS

Page

CHAPTERS

CHAPTER 1 – INTRODUCTION.....	1
CHAPTER 2 – EXISTING CONDITONS	7
CHAPTER 3 – PROJECT DESCRIPTION.....	12
CHAPTER 4 – CONDITIONS WITH THE PROJECT.....	17

APPENDISES

APPENDIX A – EXISTING CONDITONS – LEVEL OF SERVICE CALCULATIONS	20
APPENDIX B – EXISTING PLUS COPPER RIDGE PROJECT CONDITONS – LEVEL OF SERVICE CALCULATIONS	21

Traffic Evaluation

for the Copper Ridge Project

CHAPTER 1 – INTRODUCTION

Study Purpose

The Copper Ridge Project is located in Hanford, California. The project occupies approximately 84 acres and is located at the northeast corner of the intersection of 9¼ Avenue at Grangeville Blvd. **Figure 1** shows a vicinity map of the area around the development site, while **Figure 5** shows the Cottonwood #3 site plan. This report evaluates the potential short-term changes in traffic with the addition of the proposed project. Based on discussions with the City of Hanford Staff, the following intersections and scenarios were analyzed.

Intersections

The study shall assess the following intersections:

- 1) Grangeville Blvd.at 10 Avenue
- 2) Grangeville Blvd.at 9 ¼ Avenue
- 3) Grangeville Blvd.at SR 43
- 4) 9 ¼ Avenue at Florinda Street
- 5) 9 ¼ Avenue at Leland Way

Scenarios

The study will include the following scenarios:

- 1) Existing
- 2) Existing plus the Copper River Project
- 3) Existing plus the Copper River Project (mitigated, if necessary)

Analysis Methodology

Existing peak hour turn counts (AM and PM) will be collected for the existing study intersections. Based on the data collected, an existing conditions analysis will be prepared using the existing counts and lane configurations and intersection control. The study intersections will be analyzed using the Highway Capacity Manual methodologies. Signal warrants (peak hour only) will be prepared using the methodologies from the California Manual on Uniform Traffic Control Devices (MUTCD) for Street and Highways. Peak hour signal warrants at all study intersections will be prepared as appropriate.

All level of service analyses performed for this study conform to the practices of the Highway Capacity Manual, and were done using the traffic analysis software HCS (unsignalized and

(signalized). For signalized intersections, this software allows for optimization of signal timings to minimize traffic delay at each intersection. This process can result in different signal cycle lengths for both the AM and PM peak hours of a given analysis scenario and may also vary between different scenarios. This optimization somewhat reflects traffic agency procedure whereby intersection signal cycle lengths are adjusted for differing traffic conditions and times, based on counts of existing traffic volume.

For analysis purposes, HCM defines six levels of service for various facility types. The six levels are given letter designations ranging from “A” to “F”, with “A” representing the best operating conditions and “F” the worst. Quantifiable measures of effectiveness that best describe the quality of operation on the subject facility type are used to determine the facilities level of service. For the case of both signalized and unsignalized intersections, the quantifiable measure of effectiveness is average control delay.¹

Control delay for two-way stop-controlled (TWSC) intersections, which have stop signs on only the minor street approaches, is on a per-vehicle basis and is computed for the stop-controlled, minor-street movements and major street left turn movements only, because major-street through movements are theoretically in continual free-flow conditions and therefore experience no delay. Since there is no aggregation of delay for a TWSC intersection, there is no level of service for an intersection as a whole, but only levels of service for individual minor-street and major-street left turn movements.

The following table shows level of service ratings and their corresponding ranges of average control delay for both signalized and unsignalized intersections. For signalized intersections, it also contains a general description of traffic flow associated with each level of service.

Level of service for each study intersection in the various analysis scenarios are summarized in tables throughout the report. For signalized intersections, the level of service rating shown represents the overall level of service for the intersection as a whole. For stop-controlled intersections, the level of service rating shown is for each individual traffic movement (excluding major-street through movements) instead of the entire intersection.

Level of Service Standard

The City of Hanford’s Policy T29 set’s the maximum Level of Service at “E” on streets and intersections within the area bounded by Highway 198, 10th Avenue, 11th Avenue, and Florinda Avenue, inclusive of these streets. The City has set a peak hour Level of Service of “D” on all other streets and intersections with the Planned Growth Boundary.

¹ Control delay, according to the *2010 Highway Capacity Manual*, page 16-1, includes initial acceleration delay, queue move-up time, stopped delay, and final acceleration delay.

INTERSECTION LEVEL OF SERVICE DESCRIPTIONS			Allowable Delay	
			Signalized	Unsignalized ¹
Level of Service	Conditions	Signalized Intersection Description	Delay (sec/veh)	Delay (sec/veh)
"A"	Free Flow	<i>Users experience very low delay. Progression is favorable and most vehicles do not stop at all.</i>	≤10.0	≤10.0
"B"	Stable Operations	<i>Vehicles travel with good progression. Some vehicles stop, causing slight delay.</i>	>10.0 – 20.0	>10.0 – 15.0
"C"	Stable Operations	<i>Higher delays result from fair progression. A significant number of vehicles stop, although many continue to pass through the intersection without stopping.</i>	>20.0 to 35.0	>15.0 – 25.0
"D"	Approaching Unstable	<i>Congestion is noticeable. Progression is unfavorable, with more vehicles stopping rather than passing through the intersection.</i>	>35.0 – 55.0	>25.0 – 35.0
"E"	Unstable Operations	<i>Traffic volumes are at capacity. Users experience poor progression and long delays.</i>	>55.0 – 80.0	>35.0 – 50.0
"F"	Forced Flow	<i>Intersection's capacity is oversaturated, causing poor progression and unusually long delays.</i>	>80.0	>50.0

Source: Chapters 16 and 18, Highway Capacity Manual, Transportation Research Board.

¹Unsignalized intersections include TWSC and AWSC

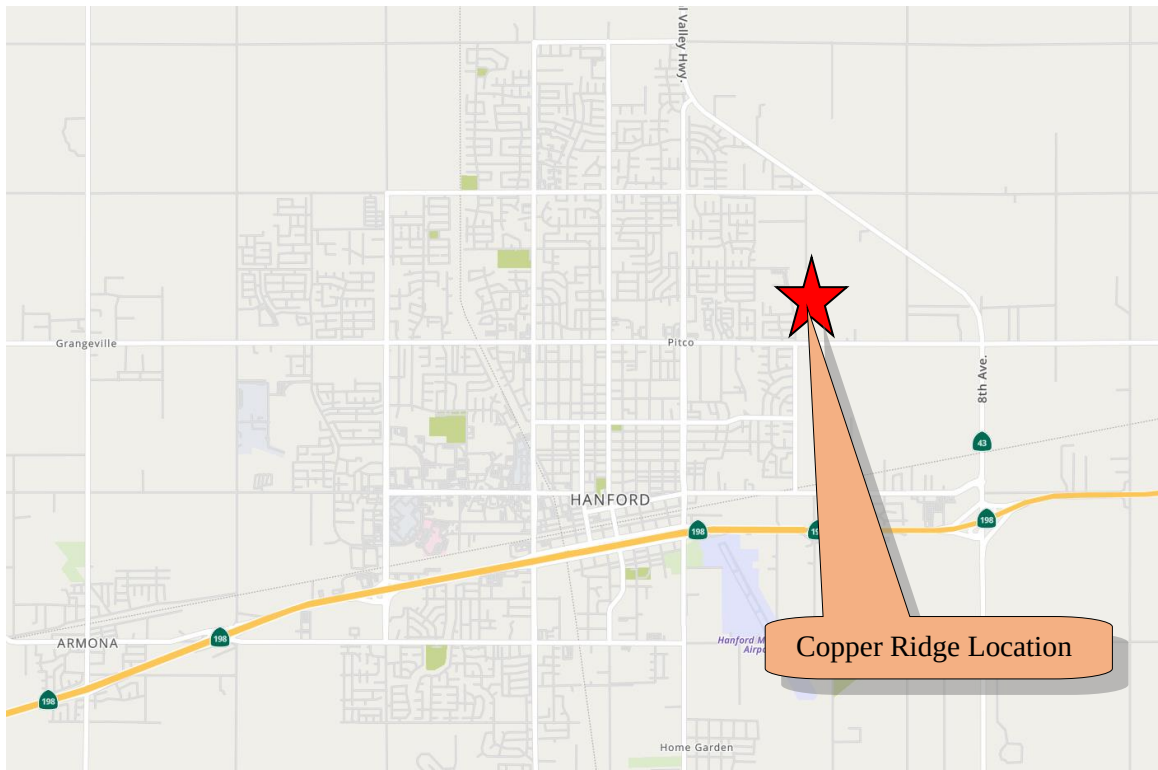


FIGURE 1: Vicinity Map

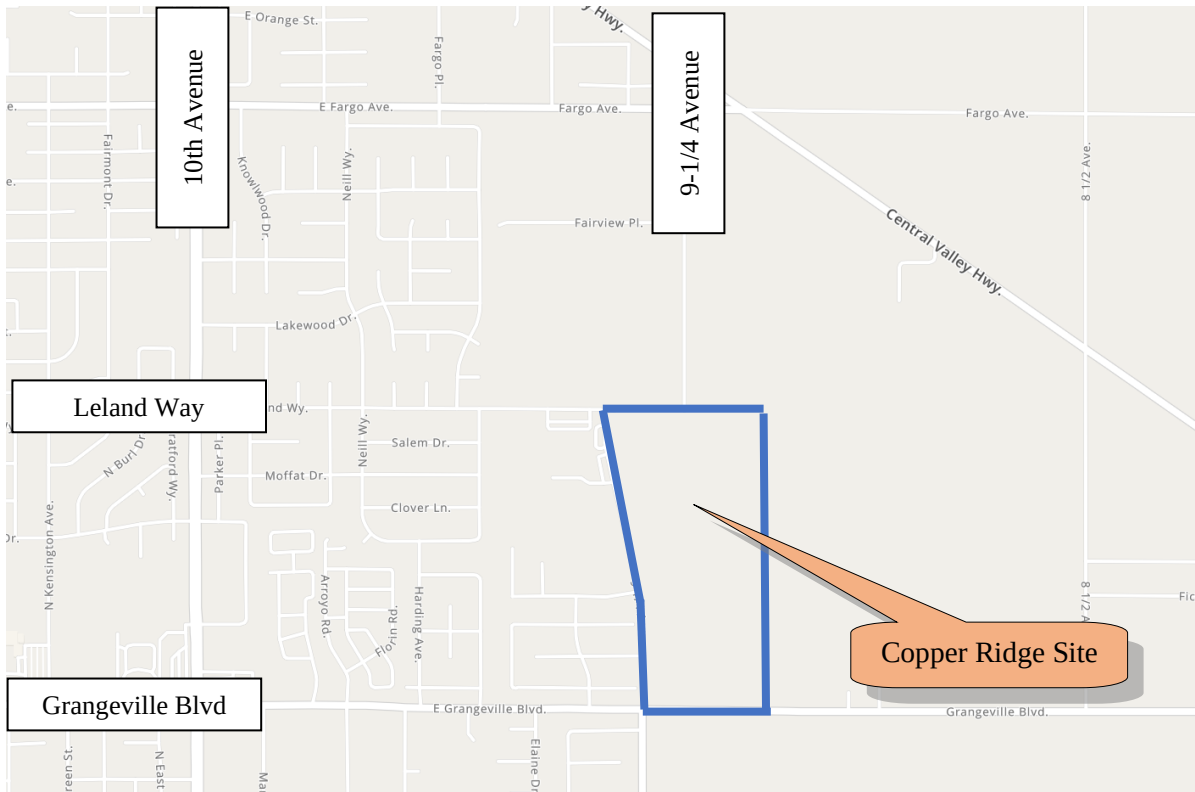


FIGURE 2: Project Location

Transit Service

Kings Area Regional Transit (KART) operates bus service throughout Kings County and surrounding counties. This service includes both fixed route and demand response services. Within Hanford KART operates eight routes as well as seven intercity routes to and from Hanford. Service generally operates Monday- Friday and every hour on Saturday. Local fares are \$1.25 one-way and regional fares are \$1.75 one-way.

Route 2 (Figure 3) operates along 10th Avenue, which is approximately 3/4 of a mile west of the Project site. Route 3 (Route 4) operates on 9-1/4 approximately 900 feet south of the Project. Service on these routes is provided Monday through Friday from 6:30 AM to 7:30 PM and on Saturday from 9:30 AM to 4:30 PM. Service is provided at 30-minute headways. Transfers can be made to other routes at the Transit Center located in Downtown Hanford.



FIGURE 3: Route 2 Service



FIGURE 4: Route 3 Service

CHAPTER 2 –EXISTING CONDITIONS

Roadways

Grangeville Boulevard

This street is a four-lane street east of 9 ¼ Avenue with traffic signals at the intersections of 10th Avenue, 9 ¼ Avenue and at SR 43. The street is designated as an Arterial in the City General Plan and is currently posted as a 45 mile per hour speed zone east of 10th Avenue and 55 mile per hour east of 9 ¼ Avenue.

10th Avenue

The street is a four-lane divided city street with traffic signals at the intersections of Grangeville Blvd and Leland Avenue. The street is designated as an Arterial in the City General Plan and is currently posted as a 40 mile per hour speed zone.

9 ¼ Avenue

Is a two-lane city street with a traffic signal at the intersection of Grangeville Blvd. The intersection with Leland Avenue is controlled by a northbound stop sign, while the intersection with Florinda Street is controlled by an eastbound stop sign. The street is designated as a collector street in the City's General Plan. The street is currently posted as a 35 mile per hour speed zone north of Grangeville Blvd. and an unposted 25 mile per hour residential speed zone south of Grangeville Blvd.

State Route 43

Is a two-lane State Highway with a traffic signal at the intersection of Grangeville Blvd. The State Highway is designated as a highway in the City's General Plan. The road is currently an unposted 55 mile per hour speed zone.

Florinda Street

Is a two-lane city street with a traffic signal at the intersection of 10th Avenue. The street is designated as a collector street in the City's General Plan. The street is currently posted as a 35 mile per hour speed zone.

Leland Way

Is a two-lane city street with a traffic signal at the intersection of 10th Avenue. The street is designated as a collector street in the City's General Plan. The street is currently an unposted 35 mile per hour speed zone.

Traffic Counts

According to the Institute of Transportation Engineers' *Traffic Impact Analyses for Site Development*, the overall purpose of a traffic impact study is to determine the project impacts that are likely to occur to the surrounding street system. In order to accomplish this, analysts need to determine what occurs when the peak of the project generated traffic is combined with the peak of the surrounding street traffic. The publication states that "peak periods [of adjacent streets and highways] are generally the weekday morning (7-9 a.m.) and evening (4-6 p.m.) peak hours, although local area characteristics occasionally result in other peaks (e.g., at major shopping or recreational centers).

On October 15, 2024, National Data & Surveying Services completed traffic counts between 7am and 9am and 4pm and 6pm at the designated intersections. That traffic data suggested that the peak hours were generally from 7:30 to 8:30am and from 4:30 to 5:30pm. The existing AM and PM traffic counts at the study intersection are shown in **Figure 3**.

Existing Conditions (2024)

Existing levels of service at the study intersections were assessed using the current lane configurations and using the existing weekday peak hour traffic volumes (shown in **Figure 3**). Level of service for existing conditions is summarized in **Table 1**. Calculations for the existing conditions are included in **Appendix A**.

Based on the existing conditions assessment, all five intersections are currently operating above the City of Hanford's level of service standard of "D".

Table 1: Existing Conditions <i>Level of Service</i>				
Intersection	AM Peak Hour		PM Peak Hour	
	Vehicle Delay	LOS	Vehicle Delay	LOS
Grangeville Blvd.at 10th Ave	23.6	C	22.4	C
Grangeville Blvd.at 9 ¼th Ave	21.1	C	20.6	C
Grangeville Blvd.at SR 43	10.9	B	13.4	B
9 ¼ Ave at Florinda St				
Northbound approach	7.9	A	7.8	A
Eastbound approach	11.3	B	10.3	B
9 ¼ Ave at Leland Way				
Westbound approach	7.6	A	7.4	A
Northbound approach	9.8	A	9.2	A

Traffic Evaluation for the Copper Ridge Project Hanford, California

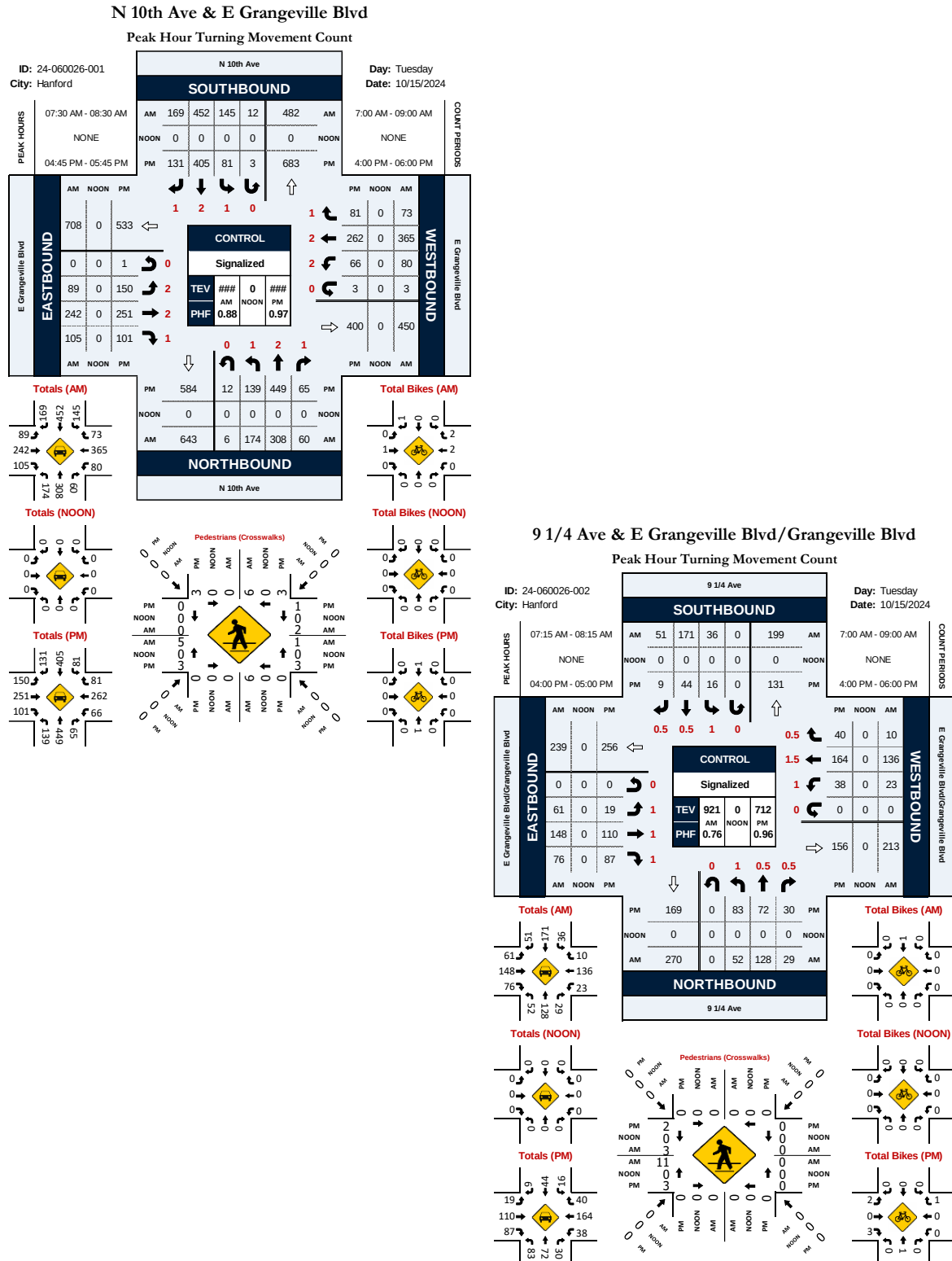


FIGURE 3: Existing Traffic Counts

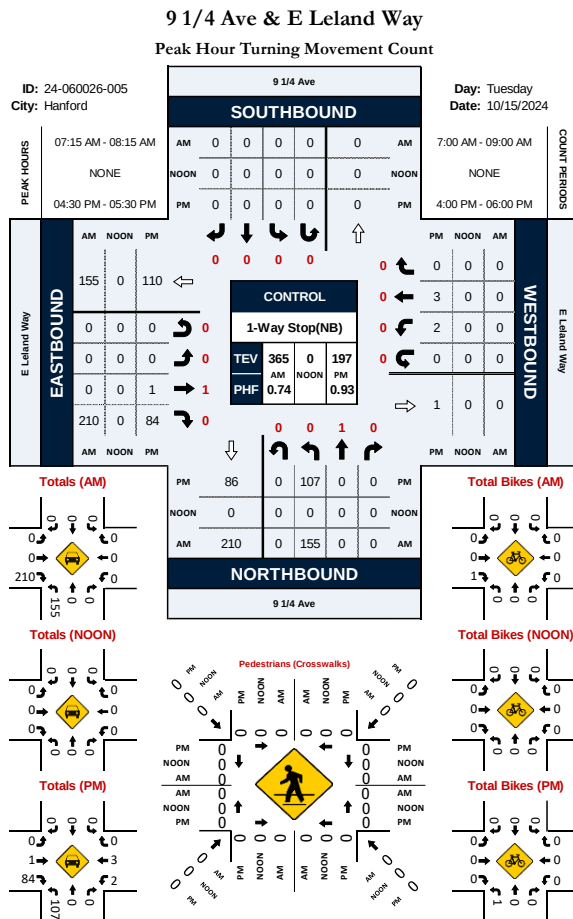


FIGURE 3: Existing Traffic Counts

CHAPTER 3 – PROJECT DESCRIPTION

Copper Ridge is a mixed-use development composed of 350 single family homes, 300 multi-family units and a total of 37,700 square feet of neighborhood retail space. The Project is located at the northeast corner of Grangeville Boulevard and 9 1/4 Avenue. The Project lies between Grangeville and Leland Way along the east side of 9 1/4. The Project will construct the extensions of both 9th Avenue between Grangeville and Leland and Leland Way between 9th Avenue and 9 1/4 Avenue. The Project site totals 83.61 acres. **Figure 5** shows the proposed site plan.

Project Trip Generation

New trips generated by the Copper Ridge Project were estimated using the Institute of Transportation Engineer's Trip Generation Manual. This publication provides average rates of trip generation for different land uses and relates these to dwelling units (residential) and square footages (fast food and retail shops). It should be noted that for the proposed mini-mart, the trip generation was computed from an estimated 16 gas pumps as depicted on the site plan layout. Trip generation rates are provided for weekdays along with the proportion of trips that are inbound or outbound from the development. The resulting Project trip generation is shown in **Table 1**.

The estimated Project's vehicle trips yield 862 trips in the AM peak hour and 1,079 trips in the PM peak hour. The Copper Ridge Project is estimated to generate a total of 12,091 daily trips. These are total project trips at the driveways or entrances. Actual new additional trips are discussed in the following section.

Table 2							
Copper Ridge Project							
Trip Generation							
Land Use			Trips				
				AM Peak Hour		PM Peak Hour	
		Units	Daily	Enter	Exit	Enter	Exit
Residential	Single family	350	3,195	58	175	203	120
	Multi-family	300	1,998	28	88	95	56
Retail	Mini-mart (16 pumps)*	4,899	3,383	129	129	148	148
	Fast food	2,153	1,005	49	47	37	34
	Fast food	2,318	1,085	53	50	40	37
	Shops	28,330	1,425	34	23	82	82
Totals			12,091	350	512	604	475
*-calculated on number of pumps							

Project Pass-by Trips

Pass-by trips refer to traffic that is present on a roadway adjacent to a land use project for reasons other than accessing the project and that enters the project. The ITE Trip Generation Manual, defines pass-by trips as an intermediate stop on the way from an origin to a primary trip destination without route diversion. The Trip Generation Manual provides guidance on potential pass-by trips for selected land uses (generally, retail and commercial). This guidance is in the percentage of pass-by trips made to and from a particular land use.

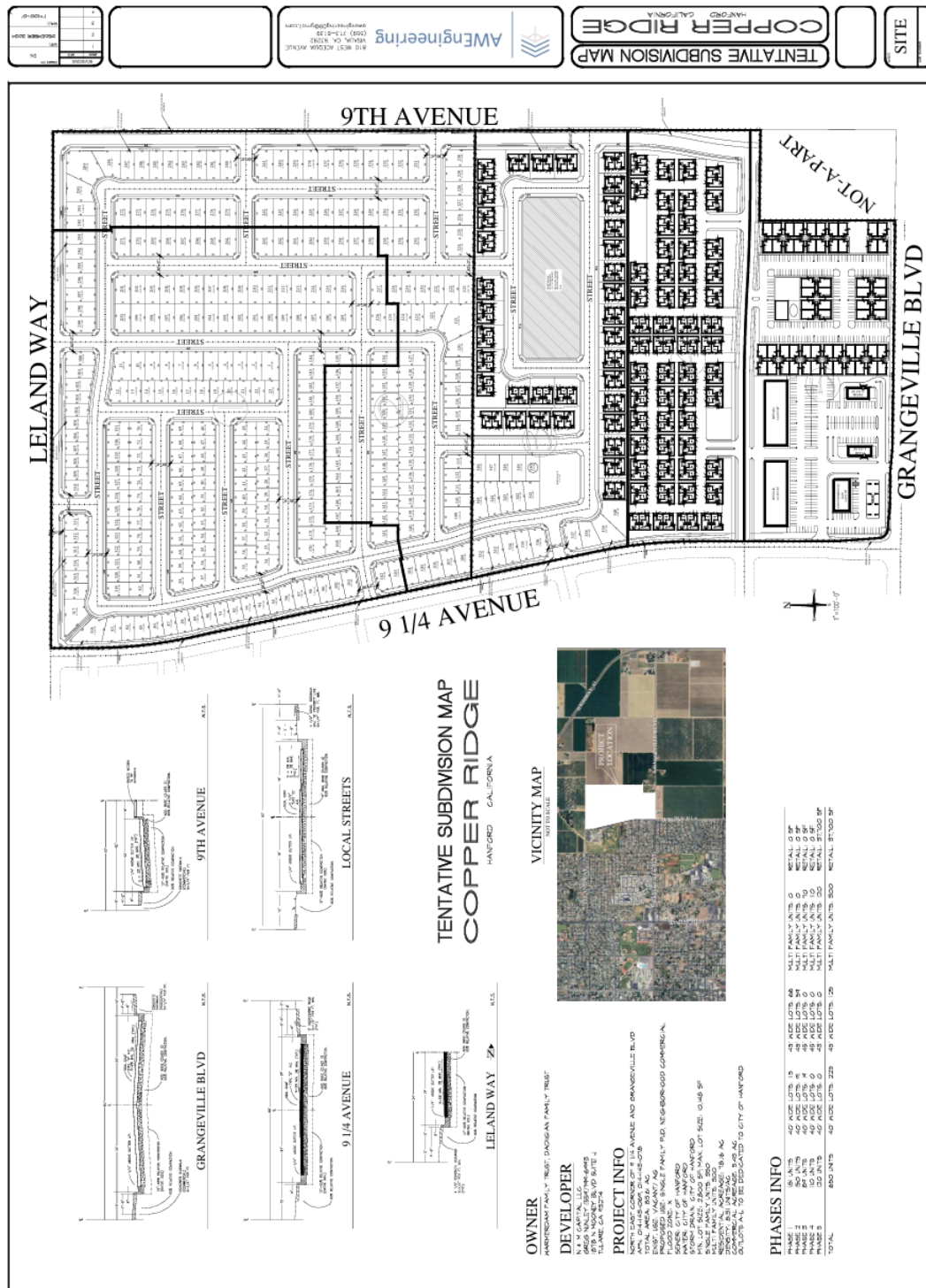


FIGURE 5: Copper Ridge Project

Project Trip Distribution

The Copper Ridge Project distribution was developed from existing volumes of traffic surrounding the site. These percentages were used to distribute project trips to the study

Project Trip Assignment

The specific project trip assignments at the intersections are shown in **Figure 6**. The assignments have been completed to reflect existing traffic volumes in the surrounding intersections.

intersections.

	10th Ave.					
				19 (22)		
				↓		
						Grangeville
					↑	15 (13)
(68) 32	→				←	63 (53)
					↓	15 (13)
				↑		
				(18) 7		

Grangeville at 10th Avenue

	9 1/4 Avenue		61 (30)	68 (20)	22 (4)		
		↓	↓	↓			
							Grangeville
(62) 24	↑						
(46) 35	→					←	32 (49)
						↓	51 (41)
				↑	↑		
				(100) 40	(9) 2		

Grangeville at 9 1/4 Avenue

	SR 43		1 (3)				
		↓					
							Grangeville
(5) 2	↑						
(31) 45	→				←	25 (63)	
(25) 35	↓						
			↑				
			(76) 9				

Grangeville at SR 43

FIGURE 6: Project Trip Assignment at Study Intersections

	9 1/4 Avenue					
						Leland
(31) 14	→				←	37 (48)
(23) 25	↘				↙	29 (14)
			↑		↗	
			(48) 45		(16) 4	

9 ¼ at Leland Way

	9 1/4 Avenue		45 (11)			
		↙	↘			
						Florinda
(10) 11	↗					
				↑		
				(99) 29		

9 ¼ at Florinda Street

FIGURE 6: Project Trip Assignment at Study Intersections

CHAPTER 4 – EXISTING CONDITIONS PLUS PROJECT

The conditions with trips generated from the Copper Ridge Project were assessed by adding the Project's net new trips to the existing traffic volumes which were shown in **Figure 3**. The Project's trip assignment is shown in **Figure 6**, which were added to the existing volumes to estimate the existing plus Project volumes. The combined peak hour traffic volumes used for this assessment are shown in **Figure 7**. The lane configurations at the intersection with the completion of the Copper Ridge Project were assumed to remain the same as existing with the exception of the 9 ¼ at Leland intersection. At this intersection the eastern leg was assumed to be partially constructed as part of the Copper Ridge project. This extension assumes a single eastbound lane along with a single westbound lane at this location.

The Level of Service Calculations for the Existing plus the Project can be seen in **Appendix B**. Based on the Existing plus Copper Ridge Project conditions assessment as shown in **Table 5**, the intersections are projected to operate above the City's level of service target standard of D.

Table 5 Existing Conditions PLUS Project Level of Service				
Intersection	AM Peak Hour		PM Peak Hour	
	Vehicle Delay	LOS	Vehicle Delay	LOS
Grangeville Blvd.at 10th Ave	25.0	C	23.0	C
Grangeville Blvd.at 9 ¼th Ave	25.9	C	24.5	C
Grangeville Blvd.at SR 43	10.9	B	13.6	B
9 ¼ Ave at Florinda St				
Northbound approach	8.2	A	7.9	A
Eastbound approach	13.1	B	11.6	B
9 ¼ Ave at Leland Way				
Westbound approach	7.8	A	7.5	A
Northbound approach	11.6	B	10,5	B

Payment of City Impact Fee

The Copper Ridge Project will contribute to the overall circulation system through the payment of the City's Traffic Impact Fee. This fee will be used to fund and construct street improvements throughout the City Based on the current fee structure the Copper Ridge Project is estimated to contribute approximately \$3.5 million to this City fund (**Table 6**). This is an estimate based on the site plan shown in **Figure 5** and the final fee will be based on actual housing units, square footages and fueling pumps.

Table 6 Copper Ridge Project Traffic Impact Fee				
Land Use				
		Units	Rate	Fee
Residential	Single family	350	\$ 3,995.72	\$ 1,398,502.00
	Multi-family	300	\$ 2,805.77	\$ 841,731.00
Retail	Mini-mart (16 pumps)*	4,899	\$ 15,412.20	\$ 246,595.20
	Fast food	2,153	\$ 27,683.03	\$ 442,928.48
	Fast food	2,318	\$ 27,683.03	\$ 442,928.48
	Shops	28,330	\$ 11,648.16	\$ 186,370.56
Totals				\$3,559,055.72
*-calculated on number of pumps				

	10th Ave.					
		↖ 169 (131)	← 452 (405)	↗ 176 (106)		
					Grangeville	
(151) 89	↖				↖ 88 (94)	
(319) 274	→				← 428 (315)	
(101) 105	↗				↗ 98 (82)	
		↖	→	↗		
		(151) 180	(449) 308	(83) 67		

Grangeville at 10th Avenue

	9 1/4 Avenue					
		↖ 112 (39)	← 239 (64)	↗ 58 (20)		
					Grangeville	
(123) 43	↖				↖ 10 (40)	
(156) 183	→				← 168 (213)	
(87) 76	↗				↗ 74 (79)	
		↖	→	↗		
		(83) 52	(172) 168	(39) 31		

Grangeville at 9 1/4 Avenue

	SR 43					
		↖ 4 (6)	← 392 (274)	↗ 55 (25)		
					Grangeville	
(13) 5	↖				↖ 23 (42)	
(201) 148	→				← 133 (162)	
(81) 116	↗				↗ 43 (36)	
		↖	→	↗		
		(195) 46	(450) 248	(46) 36		

Grangeville at SR 43

FIGURE 7: Existing Plus Copper Ridge Traffic Counts

		9 1/4 Avenue				
			↶	↓	↷	
						Leland
	↶				↶	
(32) 14	→				←	37 (51)
(107) 235	↷				↷	29 (16)
			↶	↑	↷	
			(155) 200		(16) 4	

9 1/4 at Leland Way

		9 1/4 Avenue		141 (40)	237 (190)		
			↶	↓	↷		
							Florinda
(29) 60	↶					↶	
	→					↑	
(38) 42	↷					↷	
			↶	↑	↷		
			(26) 57	(288) 144			

9 1/4 at Florinda Street

FIGURE 7: Existing Plus Copper Ridge Traffic Counts

Appendix A
*Existing Conditions
Level of Service Calculations*

3: Grangeville & 10th
Existing (AM Peak)

12/18/2024

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	89	242	105	80	365	73	174	308	60	145	452	145
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	1770	3539	1583	1770	3539	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	1770	3539	1583	1770	3539	1583
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	97	263	114	87	397	79	189	335	65	158	491	158
RTOR Reduction (vph)	0	0	84	0	0	58	0	0	48	0	0	116
Lane Group Flow (vph)	97	263	30	87	397	21	189	335	17	158	491	42
Turn Type	Prot		Perm	Prot		Perm	Prot		Perm	Prot		Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Actuated Green, G (s)	4.0	16.0	16.0	4.0	16.0	16.0	8.0	16.0	16.0	8.0	16.0	16.0
Effective Green, g (s)	4.0	16.0	16.0	4.0	16.0	16.0	8.0	16.0	16.0	8.0	16.0	16.0
Actuated g/C Ratio	0.07	0.27	0.27	0.07	0.27	0.27	0.13	0.27	0.27	0.13	0.27	0.27
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lane Grp Cap (vph)	229	944	422	229	944	422	236	944	422	236	944	422
v/s Ratio Prot	c0.03	0.07		0.03	c0.11		c0.11	0.09		0.09	c0.14	
v/s Ratio Perm			0.02			0.01			0.01			0.03
v/c Ratio	0.42	0.28	0.07	0.38	0.42	0.05	0.80	0.35	0.04	0.67	0.52	0.10
Uniform Delay, d1	26.9	17.4	16.4	26.8	18.2	16.4	25.2	17.8	16.3	24.7	18.7	16.6
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	5.7	0.7	0.3	4.7	1.4	0.2	24.2	1.0	0.2	14.1	2.0	0.5
Delay (s)	32.5	18.2	16.8	31.5	19.5	16.6	49.4	18.9	16.5	38.9	20.8	17.0
Level of Service	C	B	B	C	B	B	D	B	B	D	C	B
Approach Delay (s)		20.8			21.0			28.4			23.6	
Approach LOS		C			C			C			C	
Intersection Summary												
HCM Average Control Delay			23.6			HCM Level of Service				C		
HCM Volume to Capacity ratio			0.53									
Actuated Cycle Length (s)			60.0			Sum of lost time (s)			16.0			
Intersection Capacity Utilization			48.9%			ICU Level of Service			A			
Analysis Period (min)			15									
c Critical Lane Group												

3: Grangeville & 10th
Existing (PM Peak)

12/18/2024

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	150	251	101	66	262	81	139	449	65	81	405	131
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	1770	3539	1583	1770	3539	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	1770	3539	1583	1770	3539	1583
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	163	273	110	72	285	88	151	488	71	88	440	142
RTOR Reduction (vph)	0	0	81	0	0	65	0	0	51	0	0	104
Lane Group Flow (vph)	163	273	29	72	285	23	151	488	20	88	440	38
Turn Type	Prot		Perm	Prot		Perm	Prot		Perm	Prot		Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Actuated Green, G (s)	4.0	16.0	16.0	4.0	16.0	16.0	8.0	17.0	17.0	7.0	16.0	16.0
Effective Green, g (s)	4.0	16.0	16.0	4.0	16.0	16.0	8.0	17.0	17.0	7.0	16.0	16.0
Actuated g/C Ratio	0.07	0.27	0.27	0.07	0.27	0.27	0.13	0.28	0.28	0.12	0.27	0.27
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lane Grp Cap (vph)	229	944	422	229	944	422	236	1003	449	207	944	422
v/s Ratio Prot	c0.05	0.08		0.02	c0.08		c0.09	c0.14		0.05	0.12	
v/s Ratio Perm			0.02			0.01			0.01			0.02
v/c Ratio	0.71	0.29	0.07	0.31	0.30	0.06	0.64	0.49	0.04	0.43	0.47	0.09
Uniform Delay, d1	27.4	17.5	16.4	26.7	17.5	16.4	24.6	17.9	15.6	24.6	18.4	16.5
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	17.1	0.8	0.3	3.6	0.8	0.3	12.6	1.7	0.2	6.3	1.7	0.4
Delay (s)	44.6	18.3	16.8	30.3	18.4	16.6	37.2	19.6	15.8	30.9	20.1	16.9
Level of Service	D	B	B	C	B	B	D	B	B	C	C	B
Approach Delay (s)		25.8			19.9			22.9			20.8	
Approach LOS		C			B			C			C	
Intersection Summary												
HCM Average Control Delay		22.4			HCM Level of Service				C			
HCM Volume to Capacity ratio		0.44										
Actuated Cycle Length (s)		60.0			Sum of lost time (s)				12.0			
Intersection Capacity Utilization		43.8%			ICU Level of Service				A			
Analysis Period (min)		15										
c Critical Lane Group												

Grangeville at 10th 7:00 am 12/18/2024 Existing (PM Peak)

%user_name%

Synchro 7 - Report

Page 1

2: Grangeville & 9 1/4
Existing (AM peak)

12/18/2024

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	61	148	76	23	136	10	52	128	29	36	171	51
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.97		1.00	0.97	
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	1810		1770	1799	
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1863	1583	1770	1863	1583	1770	1810		1770	1799	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	66	161	83	25	148	11	57	139	32	39	186	55
RTOR Reduction (vph)	0	0	58	0	0	8	0	14	0	0	18	0
Lane Group Flow (vph)	66	161	25	25	148	3	57	157	0	39	223	0
Turn Type	Prot		Perm	Prot		Perm	Prot			Prot		
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8						
Actuated Green, G (s)	6.0	18.0	18.0	4.0	16.0	16.0	6.0	17.0		5.0	16.0	
Effective Green, g (s)	6.0	18.0	18.0	4.0	16.0	16.0	6.0	17.0		5.0	16.0	
Actuated g/C Ratio	0.10	0.30	0.30	0.07	0.27	0.27	0.10	0.28		0.08	0.27	
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Grp Cap (vph)	177	559	475	118	497	422	177	513		148	480	
v/s Ratio Prot	c0.04	c0.09		0.01	0.08		c0.03	0.09		0.02	c0.12	
v/s Ratio Perm			0.02			0.00						
v/c Ratio	0.37	0.29	0.05	0.21	0.30	0.01	0.32	0.31		0.26	0.47	
Uniform Delay, d1	25.2	16.1	14.9	26.5	17.5	16.2	25.1	16.9		25.8	18.4	
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	5.9	1.3	0.2	4.1	1.5	0.0	4.8	1.5		4.3	3.2	
Delay (s)	31.2	17.4	15.1	30.6	19.1	16.2	29.9	18.4		30.1	21.6	
Level of Service	C	B	B	C	B	B	C	B		C	C	
Approach Delay (s)		19.7			20.4			21.3			22.8	
Approach LOS		B			C			C			C	
Intersection Summary												
HCM Average Control Delay			21.1			HCM Level of Service				C		
HCM Volume to Capacity ratio			0.35									
Actuated Cycle Length (s)			60.0			Sum of lost time (s)			12.0			
Intersection Capacity Utilization			39.9%			ICU Level of Service			A			
Analysis Period (min)			15									

c Critical Lane Group

2: Grangeville & 9 1/4
Existing (PM peak)

12/18/2024

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	19	110	87	38	164	40	83	72	30	16	44	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.96		1.00	0.97	
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	1780		1770	1815	
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1863	1583	1770	1863	1583	1770	1780		1770	1815	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	21	120	95	41	178	43	90	78	33	17	48	10
RTOR Reduction (vph)	0	0	70	0	0	32	0	22	0	0	7	0
Lane Group Flow (vph)	21	120	25	41	178	11	90	89	0	17	51	0
Turn Type	Prot		Perm	Prot		Perm	Prot			Prot		
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8						
Actuated Green, G (s)	4.0	16.0	16.0	4.0	16.0	16.0	7.0	20.0		4.0	17.0	
Effective Green, g (s)	4.0	16.0	16.0	4.0	16.0	16.0	7.0	20.0		4.0	17.0	
Actuated g/C Ratio	0.07	0.27	0.27	0.07	0.27	0.27	0.12	0.33		0.07	0.28	
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Grp Cap (vph)	118	497	422	118	497	422	207	593		118	514	
v/s Ratio Prot	0.01	0.06		c0.02	c0.10		c0.05	c0.05		0.01	0.03	
v/s Ratio Perm			0.02			0.01						
v/c Ratio	0.18	0.24	0.06	0.35	0.36	0.03	0.43	0.15		0.14	0.10	
Uniform Delay, d1	26.4	17.2	16.4	26.8	17.8	16.3	24.7	14.0		26.4	15.9	
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	3.3	1.1	0.3	7.9	2.0	0.1	6.5	0.5		2.6	0.4	
Delay (s)	29.7	18.4	16.7	34.7	19.8	16.4	31.2	14.6		28.9	16.2	
Level of Service	C	B	B	C	B	B	C	B		C	B	
Approach Delay (s)		18.7			21.6			22.0			19.1	
Approach LOS		B			C			C			B	
Intersection Summary												
HCM Average Control Delay			20.6			HCM Level of Service			C			
HCM Volume to Capacity ratio			0.28									
Actuated Cycle Length (s)			60.0			Sum of lost time (s)		16.0				
Intersection Capacity Utilization			33.2%			ICU Level of Service		A				
Analysis Period (min)			15									
c Critical Lane Group												

Grangeville at SR 43
Existing (AM)

3: Grangeville & SR43
12/18/2024

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	3	103	81	43	108	23	37	248	36	55	392	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	0.93		1.00	0.97		1.00	0.98		1.00	1.00	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1719	1690		1719	1762		1641	1695		1641	1725	
Flt Permitted	0.67	1.00		0.63	1.00		0.40	1.00		0.54	1.00	
Satd. Flow (perm)	1206	1690		1144	1762		691	1695		928	1725	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	3	112	88	47	117	25	40	270	39	60	428	3
RTOR Reduction (vph)	0	53	0	0	15	0	0	13	0	0	1	0
Lane Group Flow (vph)	3	147	0	47	127	0	40	296	0	60	428	0
Heavy Vehicles (%)	5%	5%	5%	5%	5%	5%	10%	10%	10%	10%	10%	10%
Turn Type	Perm			Perm			Perm			Perm		
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Actuated Green, G (s)	16.0	16.0		16.0	16.0		16.0	16.0		16.0	16.0	
Effective Green, g (s)	16.0	16.0		16.0	16.0		16.0	16.0		16.0	16.0	
Actuated g/C Ratio	0.40	0.40		0.40	0.40		0.40	0.40		0.40	0.40	
Clearance Time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Lane Grp Cap (vph)	482	676		458	705		276	678		371	690	
v/s Ratio Prot		c0.09			0.07			0.17			c0.25	
v/s Ratio Perm	0.00			0.04			0.06			0.06		
v/c Ratio	0.01	0.22		0.10	0.18		0.14	0.44		0.16	0.62	
Uniform Delay, d1	7.2	7.9		7.5	7.8		7.6	8.7		7.7	9.6	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.0	0.7		0.4	0.6		1.1	2.0		0.9	4.2	
Delay (s)	7.2	8.6		8.0	8.3		8.7	10.8		8.6	13.7	
Level of Service	A	A		A	A		A	B		A	B	
Approach Delay (s)		8.6			8.2			10.5			13.1	
Approach LOS		A			A			B			B	
Intersection Summary												
HCM Average Control Delay		10.9										
HCM Volume to Capacity ratio		0.42										
Actuated Cycle Length (s)		40.0										
Intersection Capacity Utilization		51.2%										
Analysis Period (min)		15										
c Critical Lane Group												

Grangeville at SR 43
Existing (PM)

12/18/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	8	70	56	36	99	42	119	450	46	25	274	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	0.93		1.00	0.96		1.00	0.99		1.00	1.00	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1719	1689		1719	1728		1641	1703		1641	1725	
Flt Permitted	0.66	1.00		0.67	1.00		0.55	1.00		0.28	1.00	
Satd. Flow (perm)	1193	1689		1211	1728		945	1703		487	1725	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	9	76	61	39	108	46	129	489	50	27	298	3
RTOR Reduction (vph)	0	37	0	0	28	0	0	9	0	0	1	0
Lane Group Flow (vph)	9	100	0	39	126	0	129	530	0	27	300	0
Heavy Vehicles (%)	5%	5%	5%	5%	5%	5%	10%	10%	10%	10%	10%	10%
Turn Type	Perm			Perm			Perm			Perm		
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Actuated Green, G (s)	16.0	16.0		16.0	16.0		16.0	16.0		16.0	16.0	
Effective Green, g (s)	16.0	16.0		16.0	16.0		16.0	16.0		16.0	16.0	
Actuated g/C Ratio	0.40	0.40		0.40	0.40		0.40	0.40		0.40	0.40	
Clearance Time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Lane Grp Cap (vph)	477	676		484	691		378	681		195	690	
v/s Ratio Prot		0.06			0.07			0.31			0.17	
v/s Ratio Perm	0.01			0.03			0.14			0.06		
v/c Ratio	0.02	0.15		0.08	0.18		0.34	0.78		0.14	0.43	
Uniform Delay, d1	7.3	7.7		7.4	7.8		8.3	10.5		7.6	8.7	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.1	0.5		0.3	0.6		2.4	8.5		1.5	2.0	
Delay (s)	7.3	8.1		7.8	8.4		10.8	19.0		9.1	10.7	
Level of Service	A	A		A	A		B	B		A	B	
Approach Delay (s)		8.1			8.2			17.4			10.6	
Approach LOS		A			A			B			B	
Intersection Summary												
HCM Average Control Delay	13.4			HCM Level of Service				B				
HCM Volume to Capacity ratio	0.48											
Actuated Cycle Length (s)	40.0			Sum of lost time (s)				8.0				
Intersection Capacity Utilization	54.2%			ICU Level of Service				A				
Analysis Period (min)	15											
c Critical Lane Group												

TWO-WAY STOP CONTROL SUMMARY									
General Information					Site Information				
Analyst					Intersection		9 1/4 at Florinda		
Agency/Co.		Hanford			Jurisdiction				
Date Performed		12/18/2024			Analysis Year		Existing		
Analysis Time Period		AM Peak							
Project Description Copper Ridge									
East/West Street: Florinda					North/South Street: 9 1/4				
Intersection Orientation: North-South					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street		Northbound				Southbound			
Movement		1	2	3	4	5	6		
		L	T	R	L	T	R		
Volume (veh/h)		57	115			153	96		
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)		57	115	0	0	153	96		
Percent Heavy Vehicles		2	--	--	0	--	--		
Median Type		Undivided							
RT Channelized				0			0		
Lanes		0	1	0	0	1	0		
Configuration		LT					TR		
Upstream Signal			0			0			
Minor Street		Eastbound				Westbound			
Movement		7	8	9	10	11	12		
		L	T	R	L	T	R		
Volume (veh/h)		49	0	42					
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)		49	0	42	0	0	0		
Percent Heavy Vehicles		2	0	2	0	0	0		
Percent Grade (%)		0				0			
Flared Approach			N			N			
Storage			0			0			
RT Channelized				0			0		
Lanes		0	1	0	0	0	0		
Configuration			LTR						
Delay, Queue Length, and Level of Service									
Approach		Northbound	Southbound	Westbound			Eastbound		
Movement		1	4	7	8	9	10	11	12
Lane Configuration		LT						LTR	
v (veh/h)		57						91	
C (m) (veh/h)		1317						660	
v/c		0.04						0.14	
95% queue length		0.14						0.48	
Control Delay (s/veh)		7.9						11.3	
LOS		A						B	
Approach Delay (s/veh)		--	--				11.3		
Approach LOS		--	--				B		

TWO-WAY STOP CONTROL SUMMARY									
General Information					Site Information				
Analyst					Intersection		9 1/4 at Florinda		
Agency/Co.		Hanford			Jurisdiction				
Date Performed		12/18/2024			Analysis Year		Existing		
Analysis Time Period		PM Peak							
Project Description Copper Ridge									
East/West Street: Florinda					North/South Street: 9 1/4				
Intersection Orientation: North-South					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street		Northbound				Southbound			
Movement		1	2	3	4	5	6		
		L	T	R	L	T	R		
Volume (veh/h)		26	189			140			
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)		26	189	0	0	140	96		
Percent Heavy Vehicles		2	--	--	0	--	--		
Median Type		Undivided							
RT Channelized				0			0		
Lanes		0	1	0	0	1	0		
Configuration		LT					TR		
Upstream Signal			0			0			
Minor Street		Eastbound				Westbound			
Movement		7	8	9	10	11	12		
		L	T	R	L	T	R		
Volume (veh/h)		19	0	38					
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)		19	0	38	0	0	0		
Percent Heavy Vehicles		2	0	2	0	0	0		
Percent Grade (%)		0				0			
Flared Approach			N			N			
Storage			0			0			
RT Channelized				0			0		
Lanes		0	1	0	0	0	0		
Configuration			LTR						
Delay, Queue Length, and Level of Service									
Approach		Northbound	Southbound	Westbound			Eastbound		
Movement		1	4	7	8	9	10	11	12
Lane Configuration		LT						LTR	
v (veh/h)		26						57	
C (m) (veh/h)		1331						733	
v/c		0.02						0.08	
95% queue length		0.06						0.25	
Control Delay (s/veh)		7.8						10.3	
LOS		A						B	
Approach Delay (s/veh)		--	--				10.3		
Approach LOS		--	--				B		

TWO-WAY STOP CONTROL SUMMARY								
General Information					Site Information			
Analyst					Intersection	9 1/4 at Leland		
Agency/Co.	Hanford				Jurisdiction			
Date Performed	12/18/2024				Analysis Year	Existing		
Analysis Time Period	AM Peak							
Project Description copper Ridge								
East/West Street: Leland					North/South Street: 9 1/4			
Intersection Orientation: East-West					Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments								
Major Street	Eastbound				Westbound			
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)		0	210	0	0			
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	210	0	0	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0					0
Lanes	0	1	0	0	1	0		
Configuration			TR	LT				
Upstream Signal		0			0			
Minor Street	Northbound				Southbound			
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	155							
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	155	0	0	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0					0
Lanes	1	0	0	0	0	0		
Configuration	L							
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT	L					
v (veh/h)		0	155					
C (m) (veh/h)		1373	898					
v/c		0.00	0.17					
95% queue length		0.00	0.62					
Control Delay (s/veh)		7.6	9.8					
LOS		A	A					
Approach Delay (s/veh)	--	--	9.8					
Approach LOS	--	--	A					

TWO-WAY STOP CONTROL SUMMARY									
General Information					Site Information				
Analyst					Intersection		9 1/4 at Leland		
Agency/Co.		Hanford			Jurisdiction				
Date Performed		12/18/2024			Analysis Year		Existing		
Analysis Time Period		PM Peak							
Project Description copper Ridge									
East/West Street: Leland					North/South Street: 9 1/4				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street		Eastbound				Westbound			
Movement		1	2	3	4	5	6		
		L	T	R	L	T	R		
Volume (veh/h)			1	84	2	3			
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)		0	1	84	2	3	0		
Percent Heavy Vehicles		0	--	--	0	--	--		
Median Type		Undivided							
RT Channelized				0			0		
Lanes		0	1	0	0	1	0		
Configuration				TR	LT				
Upstream Signal			0			0			
Minor Street		Northbound				Southbound			
Movement		7	8	9	10	11	12		
		L	T	R	L	T	R		
Volume (veh/h)		107							
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)		107	0	0	0	0	0		
Percent Heavy Vehicles		0	0	0	0	0	0		
Percent Grade (%)			0			0			
Flared Approach			N			N			
Storage			0			0			
RT Channelized				0			0		
Lanes		1	0	0	0	0	0		
Configuration		L							
Delay, Queue Length, and Level of Service									
Approach		Eastbound	Westbound	Northbound			Southbound		
Movement		1	4	7	8	9	10	11	12
Lane Configuration			LT	L					
v (veh/h)			2	107					
C (m) (veh/h)			1524	963					
v/c			0.00	0.11					
95% queue length			0.00	0.37					
Control Delay (s/veh)			7.4	9.2					
LOS			A	A					
Approach Delay (s/veh)		--	--	9.2					
Approach LOS		--	--	A					

Appendix B
*Existing Plus Copper Ridge Project
Conditions
Level of Service Calculations*

1: Grangeville & 10th
Existing plus Project (AM Peak)

12/24/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	89	274	105	98	428	88	180	308	67	176	452	169
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	1770	3539	1583	1770	3539	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	1770	3539	1583	1770	3539	1583
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	97	298	114	107	465	96	196	335	73	191	491	184
RTOR Reduction (vph)	0	0	84	0	0	70	0	0	54	0	0	135
Lane Group Flow (vph)	97	298	30	107	465	26	196	335	19	191	491	49
Turn Type	Prot		Perm	Prot		Perm	Prot		Perm	Prot		Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Actuated Green, G (s)	4.0	16.0	16.0	4.0	16.0	16.0	8.0	16.0	16.0	8.0	16.0	16.0
Effective Green, g (s)	4.0	16.0	16.0	4.0	16.0	16.0	8.0	16.0	16.0	8.0	16.0	16.0
Actuated g/C Ratio	0.07	0.27	0.27	0.07	0.27	0.27	0.13	0.27	0.27	0.13	0.27	0.27
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lane Grp Cap (vph)	229	944	422	229	944	422	236	944	422	236	944	422
v/s Ratio Prot	0.03	0.08		c0.03	c0.13		c0.11	0.09		0.11	c0.14	
v/s Ratio Perm			0.02			0.02			0.01			0.03
v/c Ratio	0.42	0.32	0.07	0.47	0.49	0.06	0.83	0.35	0.05	0.81	0.52	0.12
Uniform Delay, d1	26.9	17.6	16.4	27.0	18.6	16.4	25.3	17.8	16.3	25.3	18.7	16.6
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	5.7	0.9	0.3	6.7	1.8	0.3	27.5	1.0	0.2	25.1	2.0	0.6
Delay (s)	32.5	18.5	16.8	33.7	20.4	16.7	52.8	18.9	16.5	50.3	20.8	17.2
Level of Service	C	B	B	C	C	B	D	B	B	D	C	B
Approach Delay (s)		20.8			22.0			29.6			26.5	
Approach LOS		C			C			C			C	

Intersection Summary

HCM Average Control Delay	25.0	HCM Level of Service	C
HCM Volume to Capacity ratio	0.56		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	51.0%	ICU Level of Service	A
Analysis Period (min)	15		
c Critical Lane Group			

1: Grangeville & 10th
Existing plus Project (PM Peak)

12/24/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖↖	↗↗	↘	↖↖	↗↗	↘	↘	↗↗	↘	↘	↗↗	↘
Volume (vph)	151	319	101	82	315	94	151	449	83	106	405	131
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	1770	3539	1583	1770	3539	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	1770	3539	1583	1770	3539	1583
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	164	347	110	89	342	102	164	488	90	115	440	142
RTOR Reduction (vph)	0	0	81	0	0	75	0	0	65	0	0	104
Lane Group Flow (vph)	164	347	29	89	342	27	164	488	26	115	440	38
Turn Type	Prot		Perm	Prot		Perm	Prot		Perm	Prot		Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Actuated Green, G (s)	4.0	16.0	16.0	4.0	16.0	16.0	8.0	17.0	17.0	7.0	16.0	16.0
Effective Green, g (s)	4.0	16.0	16.0	4.0	16.0	16.0	8.0	17.0	17.0	7.0	16.0	16.0
Actuated g/C Ratio	0.07	0.27	0.27	0.07	0.27	0.27	0.13	0.28	0.28	0.12	0.27	0.27
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lane Grp Cap (vph)	229	944	422	229	944	422	236	1003	449	207	944	422
v/s Ratio Prot	c0.05	c0.10		0.03	0.10		c0.09	c0.14		0.06	0.12	
v/s Ratio Perm			0.02			0.02			0.02			0.02
v/c Ratio	0.72	0.37	0.07	0.39	0.36	0.06	0.69	0.49	0.06	0.56	0.47	0.09
Uniform Delay, d1	27.4	17.9	16.4	26.8	17.9	16.4	24.8	17.9	15.7	25.0	18.4	16.5
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	17.4	1.1	0.3	4.9	1.1	0.3	15.6	1.7	0.2	10.3	1.7	0.4
Delay (s)	44.9	19.0	16.8	31.7	18.9	16.7	40.4	19.6	15.9	35.4	20.1	16.9
Level of Service	D	B	B	C	B	B	D	B	B	D	C	B
Approach Delay (s)		25.4			20.6			23.7			22.0	
Approach LOS		C			C			C			C	
Intersection Summary												
HCM Average Control Delay			23.0			HCM Level of Service			C			
HCM Volume to Capacity ratio			0.47									
Actuated Cycle Length (s)			60.0			Sum of lost time (s)			12.0			
Intersection Capacity Utilization			45.9%			ICU Level of Service			A			
Analysis Period (min)			15									
c Critical Lane Group												

2: Grangeville & 9 1/4
Existing plus Project (AM peak)

12/24/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	43	183	76	74	168	10	52	168	31	58	239	112
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.98		1.00	0.95	
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	1819		1770	1774	
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1863	1583	1770	1863	1583	1770	1819		1770	1774	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	47	199	83	80	183	11	57	183	34	63	260	122
RTOR Reduction (vph)	0	0	58	0	0	8	0	11	0	0	28	0
Lane Group Flow (vph)	47	199	25	80	183	3	57	206	0	63	354	0
Turn Type	Prot		Perm	Prot		Perm	Prot			Prot		
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8						
Actuated Green, G (s)	6.0	18.0	18.0	4.0	16.0	16.0	6.0	17.0		5.0	16.0	
Effective Green, g (s)	6.0	18.0	18.0	4.0	16.0	16.0	6.0	17.0		5.0	16.0	
Actuated g/C Ratio	0.10	0.30	0.30	0.07	0.27	0.27	0.10	0.28		0.08	0.27	
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Grp Cap (vph)	177	559	475	118	497	422	177	515		148	473	
v/s Ratio Prot	0.03	c0.11		c0.05	0.10		0.03	0.11		c0.04	c0.20	
v/s Ratio Perm			0.02			0.00						
v/c Ratio	0.27	0.36	0.05	0.68	0.37	0.01	0.32	0.40		0.43	0.75	
Uniform Delay, d1	25.0	16.5	14.9	27.4	17.9	16.2	25.1	17.4		26.1	20.2	
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	3.6	1.8	0.2	27.1	2.1	0.0	4.8	2.3		8.7	10.4	
Delay (s)	28.6	18.2	15.1	54.4	20.0	16.2	29.9	19.7		34.9	30.5	
Level of Service	C	B	B	D	B	B	C	B		C	C	
Approach Delay (s)		18.9			29.9			21.8			31.2	
Approach LOS		B			C			C			C	
Intersection Summary												
HCM Average Control Delay			25.9			HCM Level of Service				C		
HCM Volume to Capacity ratio			0.48									
Actuated Cycle Length (s)			60.0			Sum of lost time (s)			12.0			
Intersection Capacity Utilization			49.8%			ICU Level of Service			A			
Analysis Period (min)			15									
c Critical Lane Group												

2: Grangeville & 9 1/4
Existing plus Project (PM peak)

12/24/2024

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↰	↑	↱	↰	↑	↱	↰	↑		↰	↑	↱
Volume (vph)	123	156	87	74	213	40	83	171	39	20	64	39
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.97		1.00	0.94	
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	1811		1770	1758	
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1863	1583	1770	1863	1583	1770	1811		1770	1758	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	134	170	95	80	232	43	90	186	42	22	70	42
RTOR Reduction (vph)	0	0	70	0	0	32	0	14	0	0	31	0
Lane Group Flow (vph)	134	170	25	80	232	11	90	214	0	22	81	0
Turn Type	Prot		Perm	Prot		Perm	Prot			Prot		
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8						
Actuated Green, G (s)	7.0	16.0	16.0	7.0	16.0	16.0	5.0	17.0		4.0	16.0	
Effective Green, g (s)	7.0	16.0	16.0	7.0	16.0	16.0	5.0	17.0		4.0	16.0	
Actuated g/C Ratio	0.12	0.27	0.27	0.12	0.27	0.27	0.08	0.28		0.07	0.27	
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Grp Cap (vph)	207	497	422	207	497	422	148	513		118	469	
v/s Ratio Prot	c0.08	0.09		0.05	c0.12		c0.05	c0.12		0.01	0.05	
v/s Ratio Perm			0.02			0.01						
v/c Ratio	0.65	0.34	0.06	0.39	0.47	0.03	0.61	0.42		0.19	0.17	
Uniform Delay, d1	25.3	17.8	16.4	24.5	18.4	16.3	26.6	17.5		26.5	16.9	
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	14.6	1.9	0.3	5.4	3.1	0.1	17.2	2.5		3.5	0.8	
Delay (s)	39.9	19.6	16.7	29.9	21.6	16.4	43.7	20.0		29.9	17.7	
Level of Service	D	B	B	C	C	B	D	B		C	B	
Approach Delay (s)		25.7			22.8			26.7			19.7	
Approach LOS		C			C			C			B	
Intersection Summary												
HCM Average Control Delay			24.5			HCM Level of Service			C			
HCM Volume to Capacity ratio			0.46									
Actuated Cycle Length (s)			60.0			Sum of lost time (s)		12.0				
Intersection Capacity Utilization			44.6%			ICU Level of Service		A				
Analysis Period (min)			15									
c Critical Lane Group												

3: Grangeville & SR43
Existing plus Project (AM)

12/24/2024

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	5	148	116	43	133	23	46	248	36	55	392	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	0.93		1.00	0.98		1.00	0.98		1.00	1.00	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1719	1690		1719	1770		1641	1695		1641	1725	
Flt Permitted	0.65	1.00		0.56	1.00		0.40	1.00		0.54	1.00	
Satd. Flow (perm)	1176	1690		1020	1770		689	1695		928	1725	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	5	161	126	47	145	25	50	270	39	60	426	4
RTOR Reduction (vph)	0	70	0	0	15	0	0	13	0	0	1	0
Lane Group Flow (vph)	5	217	0	47	155	0	50	296	0	60	429	0
Heavy Vehicles (%)	5%	5%	5%	5%	5%	5%	10%	10%	10%	10%	10%	10%
Turn Type	Perm			Perm			Perm			Perm		
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Actuated Green, G (s)	16.0	16.0		16.0	16.0		16.0	16.0		16.0	16.0	
Effective Green, g (s)	16.0	16.0		16.0	16.0		16.0	16.0		16.0	16.0	
Actuated g/C Ratio	0.40	0.40		0.40	0.40		0.40	0.40		0.40	0.40	
Clearance Time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Lane Grp Cap (vph)	470	676		408	708		276	678		371	690	
v/s Ratio Prot		c0.13			0.09			0.17			c0.25	
v/s Ratio Perm	0.00			0.05			0.07			0.06		
v/c Ratio	0.01	0.32		0.12	0.22		0.18	0.44		0.16	0.62	
Uniform Delay, d1	7.2	8.3		7.5	7.9		7.8	8.7		7.7	9.6	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.0	1.3		0.6	0.7		1.4	2.0		0.9	4.2	
Delay (s)	7.3	9.5		8.1	8.6		9.2	10.8		8.6	13.8	
Level of Service	A	A		A	A		A	B		A	B	
Approach Delay (s)		9.5			8.5			10.5			13.2	
Approach LOS		A			A			B			B	
Intersection Summary												
HCM Average Control Delay			10.9			HCM Level of Service			B			
HCM Volume to Capacity ratio			0.47									
Actuated Cycle Length (s)			40.0			Sum of lost time (s)			8.0			
Intersection Capacity Utilization			55.7%			ICU Level of Service			B			
Analysis Period (min)			15									
c Critical Lane Group												

Grangeville at SR 43
Existing plus Project (PM)

12/24/2024

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	13	201	81	36	162	42	195	450	46	25	274	6
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	0.96		1.00	0.97		1.00	0.99		1.00	1.00	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1719	1731		1719	1753		1641	1703		1641	1721	
Flt Permitted	0.62	1.00		0.54	1.00		0.54	1.00		0.28	1.00	
Satd. Flow (perm)	1121	1731		979	1753		937	1703		487	1721	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	14	218	88	39	176	46	212	489	50	27	298	7
RTOR Reduction (vph)	0	37	0	0	23	0	0	9	0	0	2	0
Lane Group Flow (vph)	14	269	0	39	199	0	212	530	0	27	303	0
Heavy Vehicles (%)	5%	5%	5%	5%	5%	5%	10%	10%	10%	10%	10%	10%
Turn Type	Perm			Perm			Perm			Perm		
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Actuated Green, G (s)	16.0	16.0		16.0	16.0		16.0	16.0		16.0	16.0	
Effective Green, g (s)	16.0	16.0		16.0	16.0		16.0	16.0		16.0	16.0	
Actuated g/C Ratio	0.40	0.40		0.40	0.40		0.40	0.40		0.40	0.40	
Clearance Time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Lane Grp Cap (vph)	448	692		392	701		375	681		195	688	
v/s Ratio Prot		0.16			0.11			0.31			0.18	
v/s Ratio Perm	0.01			0.04			0.23			0.06		
v/c Ratio	0.03	0.39		0.10	0.28		0.57	0.78		0.14	0.44	
Uniform Delay, d1	7.3	8.5		7.5	8.1		9.3	10.5		7.6	8.7	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.1	1.6		0.5	1.0		6.1	8.5		1.5	2.0	
Delay (s)	7.4	10.2		8.0	9.1		15.4	19.0		9.1	10.8	
Level of Service	A	B		A	A		B	B		A	B	
Approach Delay (s)		10.1			9.0			18.0			10.6	
Approach LOS		B			A			B			B	
Intersection Summary												
HCM Average Control Delay		13.6										
HCM Volume to Capacity ratio		0.58										
Actuated Cycle Length (s)		40.0										
Intersection Capacity Utilization		62.0%										
Analysis Period (min)		15										
c Critical Lane Group												

TWO-WAY STOP CONTROL SUMMARY									
General Information					Site Information				
Analyst					Intersection		9 1/4 at Florinda		
Agency/Co.		Hanford			Jurisdiction				
Date Performed		12/18/2024			Analysis Year		Existing plus Project		
Analysis Time Period		AM Peak							
Project Description Copper Ridge									
East/West Street: Florinda					North/South Street: 9 1/4				
Intersection Orientation: North-South					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street		Northbound				Southbound			
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)	57	144			237	141			
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00			
Hourly Flow Rate, HFR (veh/h)	57	144	0	0	237	141			
Percent Heavy Vehicles	2	--	--	0	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration	LT					TR			
Upstream Signal		0			0				
Minor Street		Eastbound				Westbound			
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	60	0	42						
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00			
Hourly Flow Rate, HFR (veh/h)	60	0	42	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0				0				
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	0	1	0	0	0	0			
Configuration		LTR							
Delay, Queue Length, and Level of Service									
Approach	Northbound	Southbound	Westbound			Eastbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration	LT						LTR		
v (veh/h)	57						102		
C (m) (veh/h)	1180						546		
v/c	0.05						0.19		
95% queue length	0.15						0.68		
Control Delay (s/veh)	8.2						13.1		
LOS	A						B		
Approach Delay (s/veh)	--	--				13.1			
Approach LOS	--	--				B			

TWO-WAY STOP CONTROL SUMMARY									
General Information					Site Information				
Analyst					Intersection		9 1/4 at Florinda		
Agency/Co.		Hanford			Jurisdiction				
Date Performed		12/18/2024			Analysis Year		Existing plus Project		
Analysis Time Period		PM Peak							
Project Description Copper Ridge									
East/West Street: Florinda					North/South Street: 9 1/4				
Intersection Orientation: North-South					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street		Northbound			Southbound				
Movement		1	2	3	4	5	6		
		L	T	R	L	T	R		
Volume (veh/h)		26	288			190			
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)		26	288	0	0	190	96		
Percent Heavy Vehicles		2	--	--	0	--	--		
Median Type		Undivided							
RT Channelized				0			0		
Lanes		0	1	0	0	1	0		
Configuration		LT					TR		
Upstream Signal			0			0			
Minor Street		Eastbound			Westbound				
Movement		7	8	9	10	11	12		
		L	T	R	L	T	R		
Volume (veh/h)		29	0	38					
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)		29	0	38	0	0	0		
Percent Heavy Vehicles		2	0	2	0	0	0		
Percent Grade (%)		0			0				
Flared Approach			N			N			
Storage			0			0			
RT Channelized				0			0		
Lanes		0	1	0	0	0	0		
Configuration			LTR						
Delay, Queue Length, and Level of Service									
Approach		Northbound	Southbound	Westbound			Eastbound		
Movement		1	4	7	8	9	10	11	12
Lane Configuration		LT						LTR	
v (veh/h)		26						67	
C (m) (veh/h)		1276						612	
v/c		0.02						0.11	
95% queue length		0.06						0.37	
Control Delay (s/veh)		7.9						11.6	
LOS		A						B	
Approach Delay (s/veh)		--	--				11.6		
Approach LOS		--	--				B		

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst				Intersection	9 1/4 at Leland		
Agency/Co.	Hanford			Jurisdiction			
Date Performed	12/18/2024			Analysis Year	Existing plus Project		
Analysis Time Period	AM Peak						
Project Description copper Ridge							
East/West Street: Leland				North/South Street: 9 1/4			
Intersection Orientation: East-West				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Eastbound			Westbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)		14	235	29	37		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	
Hourly Flow Rate, HFR (veh/h)	0	14	235	29	37	0	
Percent Heavy Vehicles	0	--	--	0	--	--	
Median Type	Undivided						
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Northbound			Southbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	200	0	4				
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	
Hourly Flow Rate, HFR (veh/h)	200	0	4	0	0	0	
Percent Heavy Vehicles	0	0	0	0	0	0	
Percent Grade (%)	0			0			
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	0	1	0	0	0	0	
Configuration		LTR					
Delay, Queue Length, and Level of Service							
Approach	Eastbound	Westbound	Northbound			Southbound	
Movement	1	4	7	8	9	10	11
Lane Configuration		LT	LTR				
v (veh/h)		29	204				
C (m) (veh/h)		1328	752				
v/c		0.02	0.27				
95% queue length		0.07	1.10				
Control Delay (s/veh)		7.8	11.6				
LOS		A	B				
Approach Delay (s/veh)	--	--	11.6				
Approach LOS	--	--	B				

TWO-WAY STOP CONTROL SUMMARY

General Information				Site Information				
Analyst				Intersection	9 1/4 at Leland			
Agency/Co.	Hanford			Jurisdiction				
Date Performed	12/18/2024			Analysis Year	Existing plus Project			
Analysis Time Period	PM Peak							
Project Description copper Ridge								
East/West Street: Leland				North/South Street: 9 1/4				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)		32	107	16	51			
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	32	107	16	51	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration			TR	LT				
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	155	0	16					
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	155	0	16	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	1	0	0	0	0		
Configuration		LTR						
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT		LTR				
v (veh/h)		16		171				
C (m) (veh/h)		1457		830				
v/c		0.01		0.21				
95% queue length		0.03		0.77				
Control Delay (s/veh)		7.5		10.5				
LOS		A		B				
Approach Delay (s/veh)	--	--	10.5					
Approach LOS	--	--	B					

Appendix H

VMT Analysis

VEHICLE MILES TRAVELED ANALYSIS

COPPER RIDGE MIXED-USE PROJECT

CITY OF HANFORD

KINGS COUNTY, CALIFORNIA

This Vehicle Miles Traveled Analysis has been prepared under the supervision of
Ambarish Mukherjee, P.E.



January 2025

VEHICLE MILES TRAVELED ANALYSIS

COPPER RIDGE MIXED-USE PROJECT CITY OF HANFORD KINGS COUNTY, CALIFORNIA

Prepared for:

MFI Limited
5665 Edna Ranch Circle
San Luis Obispo, California 93292

Prepared by:

LSA Associates, Inc.
1500 Iowa Avenue, Suite 200
Riverside, California 92507
(951) 781-9310

Project No. 20242098



January 2025

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY..... 1

2.1 LIST OF CHAPTER 1.0 FIGURES 1

2.0 VEHICLE MILES TRAVELED ANALYSIS..... 4

2.1 BACKGROUND 4

2.2 METHODOLOGY..... 4

2.2.1 Project VMT Screening Analysis 4

2.2.2 VMT Metrics and Thresholds 5

2.2.3 Project Traffic Analysis Zone Update 5

2.3 VMT ANALYSIS..... 6

2.4 LIST OF CHAPTER 2.0 FIGURES AND TABLES 6

APPENDICES

A: VMT CALCULATIONS

FIGURES AND TABLES

FIGURES

Figure 1-1: Regional and Project Location..... 2

Figure 1-2: Conceptual Site Plan 3

TABLES

Table 2-A: Regional Thresholds and Project VMT 7

1.0 EXECUTIVE SUMMARY

The proposed Copper Ridge Mixed-Use Project will be a mixed-use development including 350 single-family homes, 300 multifamily units, and approximately a total of 37,700 square feet (sf) of commercial uses, including 28,330 sf retail, two fast-food restaurant with drive-through window of areas 2,153 sf and 2,318 sf, and a gas station with approximately 4,899 sf convenience store. Additionally, the project would include parks/open space areas within the community. The proposed project would be located in the northeast corner of Grangeville Boulevard and 9 ¼ Avenue. in the City of Hanford (City), Kings County, CA. Figure 1-1 illustrates the regional and project location of the proposed project.

Access to the project will be provided by four driveways on 9 1/4th Avenue, three driveways on Leland Way, and one driveway on Grangeville Boulevard. Figure 1-2 illustrates the preliminary conceptual site plan of the proposed project.

The City has recently adopted the *City of Hanford VMT Thresholds and Implementation Guidelines* (VMT Guidelines), dated November 2022. Based on the VMT Guidelines, the project being a mixed-use project, individual land use components were analyzed separately for purposes of the VMT analysis. The project VMT analysis has been conducted based on the current project description. The retail/commercial component of the project could be screened out using the 55,000 sf screening criteria for retail projects. However, the residential components of the project don't meet any of the screening criteria identified in the VMT Guidelines. The VMT Guidelines further recommends that for projects/components of a project that could not be screened out using the project screening criteria, a detailed VMT analysis should be conducted using the methodology and significant threshold criteria identified in it.

Based on the VMT analysis, the residential component's VMT is lower than the significant impact thresholds identified in the City's VMT Guidelines. As such, the residential component of the project won't have any significant transportation impact under CEQA. Therefore, given the retail component of the project is screened out, the entire project won't have any significant VMT impact.

1.1 LIST OF CHAPTER 1.0 FIGURES

- Figure 1-1: Regional and Project Location
- Figure 1-2: Conceptual Site Plan

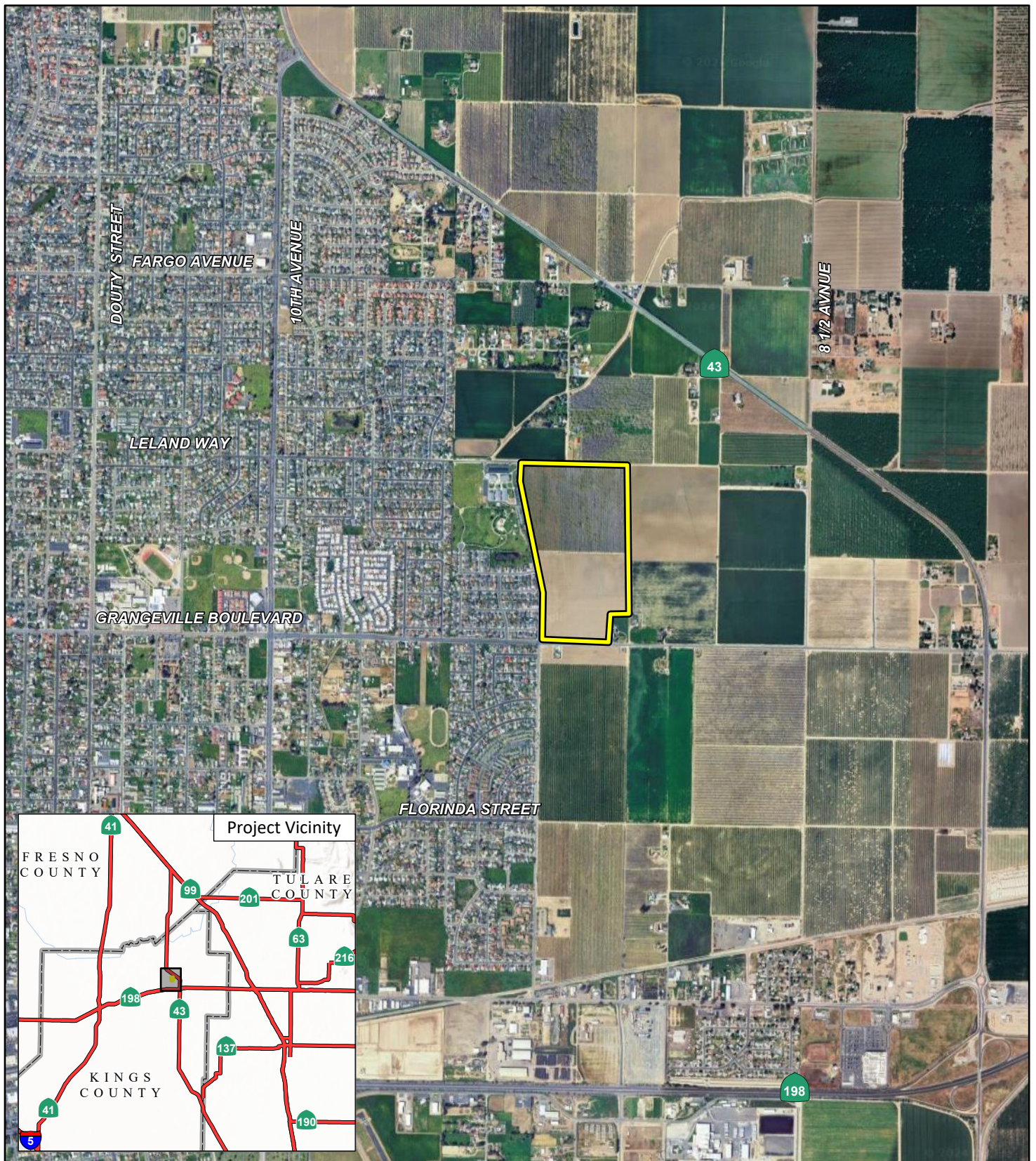


FIGURE 1-1

LSA

LEGEND

 Project Location

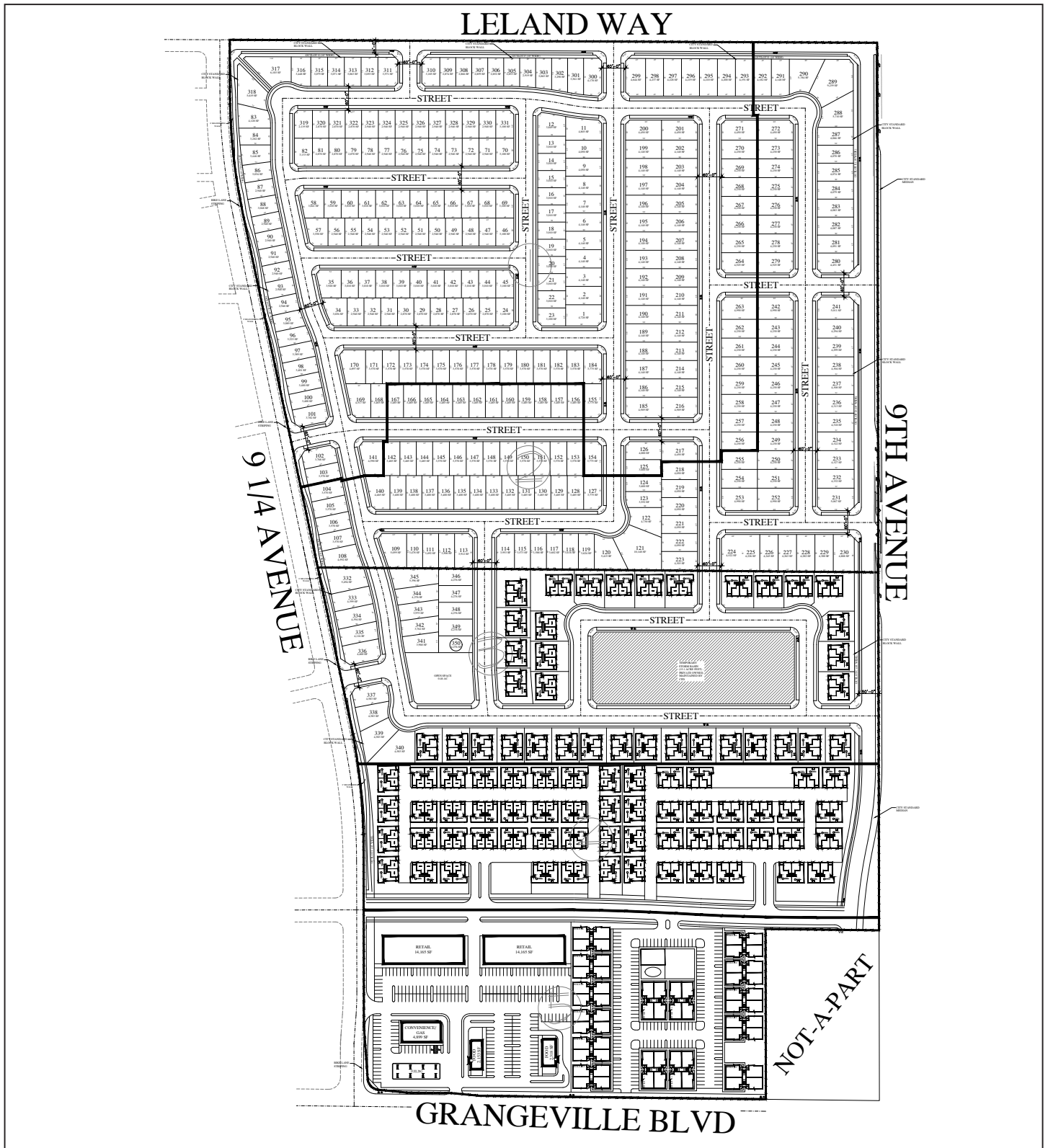


0 1000 2000
FEET

SOURCE: ESRI Streetmap, 2021; Google Earth 2024.

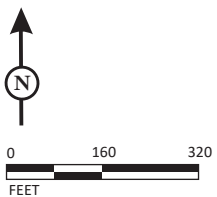
P:\2024\2024098 Copper Ridge\GIS\2024098 Copper Ridge\2024098 Copper Ridge.aprx (1/13/2025)

*Copper Ridge Mixed-Use Project
Vehicle Miles Traveled Analysis
Regional and Project Location*



LSA

FIGURE 1-2



SOURCE: AWEEngineering, January 2025
P:\2024\20242098 Copper Ridge\G\Fig1-2_Conceptual Site_Plan.ai (1/13/2025)

Copper Ridge Mixed-Use Project
Vehicle Miles Traveled Analysis
Conceptual Site Plan

2.0 VEHICLE MILES TRAVELED ANALYSIS

2.1 BACKGROUND

On December 28, 2018, the California Office of Administrative Law cleared the revised California Environmental Quality Act (CEQA) guidelines for use. Among the changes to the guidelines was removal of vehicle delay and level of service from consideration under CEQA. With the adopted guidelines, transportation impacts are to be evaluated based on Vehicle Miles Traveled (VMT) generated by the project.

The City has adopted the *City of Hanford VMT Thresholds and Implementation Guidelines* (VMT Guidelines) in November 2022. Therefore, the project VMT analysis was conducted using the methodology and significant threshold criteria identified in the City's VMT Guidelines. As previously mentioned, the project includes residential and retail/commercial land uses. As per the VMT Guidelines, mixed-use projects should be evaluated separately for each component of the project. Therefore, each project component was analyzed separately.

2.2 METHODOLOGY

2.2.1 Project VMT Screening Analysis

The VMT Guidelines include multiple screening criteria for small land use projects or project components to be screened out of a detailed VMT analysis.

The screening thresholds and their applicability to the project site are as follows:

- **Transit Priority Area Screening:** The project location was compared against the Transit Priority Area from the City of Hanford VMT Screening Tool. Since the project is not located within any Transit Priority Area, this screening criteria does not apply for the project.
- **Local-serving Retail:** Based on the VMT Guidelines, retail projects with a combined area of less than 55,000 sf could be classified as local-serving and could be screened out from a detailed VMT analysis. As summarized in Chapter 1 of this report, the retail component of the project is approximately 37,700 sf, which is less than 55,000 sf. Therefore, the retail component of the project could be screened out using this criterion and a detailed VMT analysis will not be required for this project component.
- **Redevelopment Project:** The project site is currently vacant. Therefore, this criterion is not applicable for the project.
- **Affordable Housing Project:** The residential component of the project proposes market rate single-family and multifamily residential development. Therefore, this criterion is not applicable for the residential component of project.
- **Average Daily Trip Threshold:** Given the size of the project, the project is estimated to generate significant number of trips and could not be screened using the daily trip threshold criteria, which is 500 daily trips for projects requiring a General Plan Amendment (GPA), and 1,000 daily trips for projects not requiring a GPA.
- **Institutional/Government and Public Service Project:** The project land uses could not be classified as Institutional/government and public service land uses, including police stations,

- fire stations, government offices, utilities, public libraries, community centers, and refuse stations. Therefore, this criterion is not applicable for the project.
- **Specific Land Use Screening:** As included in the VMT Guidelines, local parks, daycare centers, student housing projects on or adjacent to a college campus, local serving gas stations, banks, and K–12 public schools could be screened out from detailed VMT analysis. As previously mentioned, the project would include a gas station, which would be part of the commercial component of the project and eligible to be screened out. Also, the park/open space component of the project could be screened out using this criterion and a detailed VMT analysis will not be required.
 - **Low VMT Area Screening:** The project site was evaluated using City of Hanford VMT Screening Tool to determine if the project is located within a low VMT area. Per the VMT Screening Tool, the project comprises of Kings County Association of Governments (KCAG) Travel Demand Model's traffic analysis zone (TAZ) # 657. Based on the evaluation, the project is not in a low VMT area for the residential components. As such, the project's residential components could not be screened out using this criterion.

As noted above, the retail component of the project is screened out using the screening criteria and no further VMT analysis would be required for that component. However, the residential components of the project don't meet any of the screening criteria identified in the guidelines. Therefore, a detailed VMT analysis was conducted to evaluate the VMT impact of these residential components.

2.2.2 VMT Metrics and Thresholds

The VMT Guidelines provide guidance regarding VMT analysis based on land use types. It recommends use of VMT per capita metric to evaluate residential land uses, and VMT per employee for office uses.

The VMT Guidelines also established Kings County as the region and 13 percent as the threshold for comparison of VMT metrics. Therefore, if the project VMT per capita exceeds 87 percent of corresponding Kings County baseline average VMT per capita, the residential component of the project would have a significant VMT impact.

For projects that require a detailed VMT analysis, the guidelines recommend use of KCAG model to conduct the VMT analysis. Therefore, KCAG model was used for the VMT evaluation of the project. Numerical values for the VMT metric threshold have been obtained from Table E: Significance Thresholds for VMT Analysis of the VMT Guidelines.

2.2.3 Project Traffic Analysis Zone Update

To calculate the project VMT, the first step was to update the TAZs in the model that include the project area. The project should be isolated in the travel model to estimate project VMT. The KCAG model includes ability to split or add new TAZ. Therefore, three separate TAZs were added to the model to incorporate the project's single-family, multifamily, and retail land uses. Single-family and multifamily residential uses have been separated into two TAZs because they have different household characteristics such as household size and household income. Typically, single-family residential developments have a higher household size, higher auto ownership, and higher income

compared to multifamily developments. Creating new TAZs for the project help isolate project VMT and determine project specific VMT impact.

KCAG model is a socioeconomic data-based model. Therefore, in addition to the number of households, the model requires other household characteristics such as household income and household size as inputs to the socioeconomic database. The household attributes such as size and income determine the number of trips and their trip lengths. For example, based on ITE *Trip Generation Manual*, (11th edition), a single-family dwelling unit will have 9.4 daily trips, whereas a multifamily unit will have 6.7 daily trips in average. Generally, higher household sizes contribute to higher number of trips and similarly higher income households have more and longer trips. The trip rates in the travel model are disaggregated by different household attributes which are based on regional household travel survey, and census data. These household variables for the project dwelling units were obtained from similar TAZs within the City. Appropriate socioeconomic data for each of the residential land uses were included in the model prior to conducting the VMT analysis model run.

It should be noted that though the retail component of the project was screened out, one separate TAZ was created in the model to include the retail land uses. Inclusion of retail uses will appropriately reflect the internal capture within the project. This is because, presence of retail in proximity of residential uses will help reduce the overall VMT of the project. The retail land use was converted to model socioeconomic data. The land use to employee conversion factors were developed using ITE *Trip Generation Manual*, 11th edition for project retail uses. The ITE trip generation manual includes trip generation rates for different land use categories by different units such as square footage, number of units, and/or number of employees. Employee/square footage rate was determined for these uses by dividing the daily trip rate per 1,000 sf by daily trip rate per employee. This ratio was used to estimate number of employees per square feet for the retail use which in turn was used to estimate total project retail employees. Model run was conducted for this updated model after incorporating the project land uses as described above. The outputs from this updated model run were utilized to estimate project specific VMT metrics. No project specific roadway network modifications were conducted for the model runs.

2.3 VMT ANALYSIS

Table 2-A shows the result of the VMT analysis for the residential component of the project. As shown in Table 2-A, VMT per capita for residential component of the project is lower than the regional threshold. As such, based on the VMT analysis, the residential component will not have any significant VMT impact. As such, since all the components of the project could be either screened out or would have a less than significant VMT impact, the entire project will have a less than significant VMT impact.

Detailed VMT calculation for the project is included in Appendix A.

2.4 LIST OF CHAPTER 2.0 TABLES

- Table 2-A: Regional Threshold and Project VMT

Table 2-A: Regional Thresholds and Project VMT

Metric	Threshold ¹	Project	Difference
VMT per Capita	8.99	8.98	(0.01)

Source: KCAG Model.
The Kings County VMT per capita was obtained from City of Hanford VMT Guidelines, (November 2022).
VMT = vehicle miles traveled

APPENDIX A:

VMT CALCULATIONS

Appendix A - VMT Calculation - Copper Ridge Residential Component

Table 1 - VMT per Capita Calculations

2015	Total Project Residential	Threshold
Households (a)	650	
Population (b)	1,805	
Homebased (HB) VMT ('c)	16,215	
HB VMT per capita (d = c/b)	8.98	8.99

Source: KCAG Model

The Kings County VMT per capita threshold was obtained from City of Hanford VMT Guidelines, (November 2022).

VMT = vehicle miles traveled