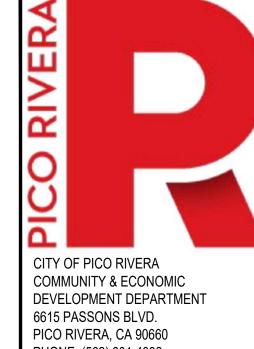
# CITY OF PICO RIVERA

# PRE APPROVED STANDARD PLANS FOR ACCESSORY DWELLING UNIT

PROJECT ADDRESS:



PHONE: (562) 801-4332

DATE: 1 / 1 / 2025

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# GENERAL NOTES

- 1. AT THE TIME OF PERMIT ISSUANCE, CONTRACTOR SHALL SHOW THEIR VALID WORKERS' COMPENSATION INSURANCE CERTIFICATE.
- 2. ALL WORK SHALL CONFORM TO ALL REQUIREMENTS OF STATE OF CALIFORNIA TITLE 24 REGARDLESS OF THE INFORMATION INDICATED ON THESE PLANS. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL SUPERVISING THE CONSTRUCTION TO ENSURE THAT THE WORK IS DONE IN ACCORDANCE WITH CODE REQUIREMENTS PRIOR TO REQUESTING INSPECTION.
- 3. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC RIGHT-OF-WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN DISPOSED OF AS A SOLID WASTE.
- 4. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- 6. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- 7. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER.
- 8. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERROR ON THESE PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR REGULATIONS.
- 9. FOR SINGLE FAMILY DWELLINGS AND MULTI FAMILY DWELLINGS BUILT ON OR BEFORE JAN 1 1994: FOR ALL ALTERATIONS OR IMPROVEMENTS, AS A CONDITION FOR ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION AND OCCUPANCY OR FINAL PERMIT APPROVAL, ALL NON COMPLIANT PLUMBING FIXTURES SHALL BE REPLACED WITH WATER CONSERVING FIXTURES PURSUANT TO CALIFORNIA CIVIL CODE SECTION 1101.1 AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE SECTION 4.303.1

10. HERS RATER VERIFICATION IS REQUIRED FOR THIS PROJECT. SEE CR-1R FOR FEATURES REQUIRING HERS VERIFICATION.

# WATER SUPPLY

- 1. A SEPARATE OR UPSIZED WATER METER IS RECOMMENDED FOR OPTIMAL WATER PRESURE.
- 2. SHOW LOCATION OF EXISTING WATER METER ON SITE PLAN.
- 3. SHOW LOCATION OF NEW WATER METER ON SITE PLAN IF DESIRED.
- 4. FOR UNITS WITH AUTOMATIC FIRE SPRINKLERS, SEPARATE METER IS REQUIRED WITH MULLER U-BRANCH FITTING FOR FIRE AND DOMESTIC SERVICE LINES. 4.1. FIRE DEPARTMENT APPROVED FIRE SPRINKLER PLANS TO BE APPROVED BY THE PROVIDING WATER PURVEYOR PRIOR TO INSTALLATION.

### ELECTRICAL SERVICE PANELS

PANEL UPGRADES, RELOCATION & NEW ADU PANEL INSTALLATIONS

- CALL & REQUEST A METER SPOT FOR PANEL CALL SCE AT (800) 655-4555 OBTAIN PERMIT(S)
- INSTALL OR RELOCATE ELECTRICAL PANEL AT SCE APPROVED LOCATION - APPLY FOR AN APPLICATION FOR SERVICE - CALL SCE AT (800) 655-4555 TO START BILLING ON METER (NEW METER SETS ONLY)
- OBTAIN CITY INSPECTION AFTER PANEL IS INSTALLED.

IF LOCK RING REMOVAL REQUIRED CALL (800) 655-4555 RESIDENTIAL/GENERAL SERVICES/ EDISON 800 SERVICE (800) 655-4555 COMMERCIAL/TEMPORARY POWER SERVICES (800) 990-7788

EMERGENCY SERVICES, POWER OUTAGES, STREET LIGHT REPAIRS (800) 611-1911



# USE OF THESE DOCUMENTS

THIS PLAN IS PROVIDED BY THE CITY OF PICO RIVERA PRE-APPROVED ADU PROGRAM AND IS PUBLIC DOMAIN. THERE SHALL NOT BE A CHARGE TO PROVIDE THIS PLAN.

THIS STANDARD PLAN SET MAY BE USED FOR PERMITTING AND CONSTRUCTION WITHIN THE DESIGN OF THIS PROTOTYPE. THESE PLANS MAY NOT BE MODIFIED AND SHALL NOT BE DEVIATED DURING CONSTRUCTION. ANY CHANGE, MODIFICATION OR DEVIATION SHALL INVALIDATE THE BUILDING PERMIT AND A RE-DESIGNED PLAN SHALL BE SUBMITTED TO THE CITY OF PICO RIVERA FOR REVIEW.

A CITY OF PICO RIVERA BUILDING PERMIT FOR CONSTRUCTION OF THE ACCESSORY DWELLING UNIT SHALL BE OBTAINED BEFORE COMMENCEMENT OF CONSTRUCTION. APPROVALS FROM APPLICABLE CITY DEPARTMENTS SHALL BE OBTAINED, AND REQUIRED FEES PAID PRIOR TO OBTAINING THE BUILDING PERMIT.

IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONSTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS, AND THE BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

## FIRE-RESISTANCE REQ.

DWELLING & ACCESSORIES WITHOUT AUTOMATIC RESIDENTIAL FIRE SPRINKLER

- PROTECTION [R302.1; TABLE R302.1(1) EXTERIOR WALLS LESS THAN 5-FT OF PROPERTY LINE SHALL BE ONE-HOUR
- RATED PER ASTM E 119 OR UL 263 WITH EXPOSURE FROM BOTH SIDES PROJECTIONS THAT EXTEND BETWEEN 2-FT AND LESS THAN 5-FT OF THE PROPERTY LINE SHALL HAVE A ONE-HOUR FIRE RATED PROTECTION ON THE UNDERSIDE. PROJECTIONS CANNOT EXTEND CLOSER THAN 2-FT OF THE
- OPENINGS IN EXTERIOR WALLS WITHIN 5-FT OF THE PROPERTY LINE IS LIMITED TO 25% OF THE WALL AREA. OPENINGS ARE NOT ALLOWED WHEN WALLS ARE CLOSER THAN 3-FT TO THE PROPERTY LINE.

DWELLING & ACCESSORIES **WITH** AUTOMATIC RESIDENTIAL FIRE SPRINKLER

- PROTECTION [R302.1; TABLE R302.1(2) 1. EXTERIOR WALLS LESS THAN 3-FT OF PROPERTY LINE SHALL BE ONE-HOUR RATED PER ASTM E 119 OR UL 263 WITH EXPOSURE FROM BOTH SIDES
- 2. PROJECTIONS THAT EXTEND BETWEEN 2-FT AND LESS THAN 3-FT OF THE PROPERTY LINE SHALL HAVE A ONE-HOUR FIRE RATED PROTECTION ON THE UNDERSIDE. PROJECTIONS CANNOT EXTEND CLOSER THAN 2-FT OF THE
- OPENINGS ARE NOT ALLOWED WHEN EXTERIOR WALLS ARE CLOSER THAN 3-FT TO THE PROPERTY LINE.

WHERE APPROVED SITE PLAN SPECIFIES 1-HR RATED WALLS:

WATER PURVEYOR SERVICING THE PARCEL.

 EXTERIOR WALLS SHALL COMPLY WITH DETAIL 1/A-4.0 • EXTERIOR PROJECTIONS SHALL COMPLY WITH EAVE AND RAKE DETAILS FOR 1-HR FIRE RESISTANT CONSTRUCTION

FIRE SPRINKLER SYSTEM IS REQUIRED FOR ADU PER CA ASSEMBLY BILL AB-976 IF ANY OF THE FOLLOWING CONDITIONS ARE PRESENT: 1. THE MAIN RESIDENCE HAS OR IS REQUIRED TO HAVE A FIRE SPRINKLER

- 2. THE MINIMUM FIRE FLOW REQUIREMENT IS NOT MET (1000gpm @ 20psi, CFC 2022 SECTION B105). COPY OF FIRE FLOW CAN BE OBTAINED FROM THE
  - PICO RIVERA WATER AUTHORITY (562) 801-4404 PICO WATER DISTRICT - (562) 692-3756
- THE MINIMUM REQUIRED DISTANCE TO NEAREST FIRE HYDRANT IS NOT MET (ALL EXTERIOR PORTION OF PROPOSED ADU'S 1ST FLOOR SHALL BE WITHIN 400-FT OF FIRE HYDRANT. (CFC 2022 SECTION 507.5.1)

WHEN SPRINKLERS ARE REQUIRED:

- DETAILED SPRINKLER PLANS SHALL BE SUBMITTED TO THE FIRE DEPARTMENT AND APPROVED PRIOR TO INSTALLATION. PLANS AND INSTALLATION MUST BE BY A C16 LICENSED SPRINKLER CONTRACTOR.
- 2. SECTION 903.3.1.3 NFPA 13D SPRINKLER SYSTEMS AUTOMATIC FIRE SPRINKLER SYSTEMS INSTALLED IN ONE-AND TWO-FAMILY DWELLINGS, GROUP R-3, AND TOWNHOUSES SHALL BE PERMITTED TO BE INSTALLED THROUGHOUT IN ACCORDANCE WITH THE CURRENT EDITION OF NFPA 13D AMENDED IN CHAPTER 35.
- SECTION 903.2.8 GROUP R AN AUTOMATED SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA.
- SECTION 903.2.8.1 GROUP R-3 AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.3 SHALL BE PERMITTED IN GROUP R-3 OCCUPANCIES.
- 5. LOCATION AND SIZE OF WATER SERVICE UNDERGROUND SHALL BE INSTALLED AS SHOWN ON APPROVED FIRE SPRINKLER PLANS. A MINIMUM 1-INCH WATER SHALL BE INSTALLED.
- 6. A HYDRO INSPECTION OF THE FIRE SPRINKLER SYSTEM IS REQUIRED PRIOR TO FRAME INSPECTION. ONLY THE NEW PIPING SHALL BE TESTED.

### PROJECT INFORMATION

### PROJECT SCOPE:

- CONSTRUCTION OF A NEW DETACHED SINGLE STORY ACCESSORY DWELLING UNIT (800 SQ.FT.) WITH (2)-BEDROOM, (1)-BATH, AND COVERED FRONT PORCH (68 SQ.FT.)
- 2. ALL SITE WORK WITHIN THE PROPERTY LINE
- ALL WORK SHOWN IN THE DRAWINGS AND SPECIFICATIONS ONLY.

SQ.FT
800 SQ.FT
13'-1'

### **BUILDING INFORMATION: (OWNER TO COMPLETE)**

- NUMBER OF STORIES: OCCUPANCY GROUP:
- CONSTRUCTION TYPE:
- ZONING DESIGNATION

FIRE SPRINKLERS

- LOT SIZE:
- EXISTING SQUARE FOOTAGE: (THIS SHOULD INCLUDE EXISTING RESIDENCE, GARAGE, SHEDS, ETC)
- PROPOSED SQUARE FOOTAGE:

APPLICABLE CODES: 2022 CBC, 2022 CRC, 2022 CPC, 2022 CMC, 2022 CEC, 2022 CGrC, 2022CEnC W/ CITY OF PICO RIVERA AMENDMENTS

### MAXIMUM ALLOWABLE LOT COVERAGE:

- S-F ZONE:
  - LOT < 5,500 SQ.FT. = 45 %
- LOT > 5,500 SQ.FT. = 40 % R-E ZONE:

LOT AREA ....

LOT COVERAGE ...

ANY LOT SIZE = 35 %

### LOT COVERAGE CALCULATION

1. (E) MAIN SFD
4. (N) PORCH
TOTAL EXISTING LIVING SPACE TOTAL EXISTING NON-LIVING SPACE
TOTAL NEW LIVING SPACE TOTAL NEW NON-LIVING SPACE
FOOT PRINT AREA

# SUPPORTING DOCUMENTS

THE FOLLOWING SUPPORTING DOCUMENTS MUST BE SUBMITTED BY THE OWNER / APPLICANT FOR CITY APPROVAL PRIOR TO CONSTRUCTION:

- 2. REGISTERED ENERGY CALCULATIONS TO BE SITE SPECIFIC

FOR ENERGY INFORMATION VISIT

WWW.ENERGY.CA.GOV WWW.CHEERS.ORG/FIND-A-PRO/ WWW.ENERGYCODEACE.COM

A SOLAR PHOTOVOLTAIC ENERGY SYSTEM (SOLAR PV PANELS) MUST BE INSTALLED PURSUANT TO CALIFORNIA ENERGY CODE SECTION 150.1C.14. A SEPARATE PERMIT MUST BE OBTAINED AND INSTALLATION OF THE PV SYSTEM MUST BE COMPLETE AND APPROVED BY THE BUILDING & SAFETY DIVISION PRIOR TO THE FINAL OF THE PERMIT

> CONTACT PICO RIVERA INNOVATIVE MUNICIPAL ENERGY (PRIME) AT (562) 801-4027 OR SUSTAINABILITY@PICO-RIVERA.ORG TO DISCUSS THE PRIME POWER CHOICE PROGRAM.

- 4. PROPERTY LINE SURVEY FOR NEW CONSTRUCTION WITHIN 5-FT FROM
- 4.1. THE PROPERTY LINES SURVEY SHALL BE DONE BY A CALIFORNIA

STATE LICENSED LAND SURVEYOR OR ENGINEER. PROPERTY LINES SHALL BE STAKED AND PROPER DOCUMENTATION BY THE RESPONSIBLE LICENSED LAND SURVEYOR OR ENGINEER SHALL BE SUBMITTED TO THE BUILDING INSPECTOR PRIOR TO FOUNDATION INSPECTION APPROVAL

# SITE PLAN

THE FOLLOWING MINIMUM INFORMATION MUST BE PROVIDED ON AN OWNER-PROVIDED SITE PLAN AND MUST BE DRAWN TO SCALE ON A 24"x 36" SHEETS. ADDITIONAL INFORMATION MAY BE REQUESTED ON A CASE-BY-CASE

- SIZE AND LOCATION OF ALL STRUCTURES ON SITE
- DIMENSION TO PROPERTY LINES
- DIMENSION TO OTHER STRUCTURES ON SITE MEASURED EAVE-TO-EAVE.
- ACCESS INTO THE SITE (DRIVEWAY)
- LOCATION OF ALL TREES ON SITE
- ALL ADDRESSES ON EACH UNIT
- VICINITY MAP DEMONSTRATING WHETHER THE PROPERTY IS LOCATED WITHIN ONE-HALF MILE WALKING DISTANCE OF A PUBLIC TRANSIT STOP.
- LOCATION & SIZE OF OF ELECTRICAL SERVICE PANEL & SUB-PANELS
- LOCATION OF PROPOSED HEATING / COOLING EQUIPMENT PER
- PUMP) SHALL MAINTAIN A MINIMUM 3-FT SETBACK FROM PROPERTY LINE AND SHALL BE SCREENED FROM THE PUBLIC-RIGHT-OF-WAY AND NEIGHBORING PROPERTIES.
- LOCATION OF PROPOSED WATER HEATER PER ENERGY DOCUMENTATION SERVING THE DWELLING
- TANK WATER HEATER SHALL BE LOCATED WITHIN A METAL OR STUCCO ENCLOSURE PAINTED TO MATCH RESIDENCE.
- DRAINAGE TO A STORM SEWER CONVEYANCE SYSTEM, PUBLIC STREET, OR OTHER APPROVED POINT OF COLLECTION. •• SHOW RELATIVE OR ACTUAL ELEVATION POINTS, SLOPE, AND/OR DIRECTION OF FLOW

- 1. THIS PROJECT IS DESIGNED WITH A SLAB-ON-GRADE FOUNDATION AND ASSUMED A FLAT SITE WITH STANDARD SOIL.
- THIS PLAN SET CANNOT BE USED FOR PERMITTING OR CONSTRUCTION.

SHEET INDEX

GENERAL

COVER SHEET & PROJECT DATA CA GREEN BUILDING STANDARDS CA GREEN BUILDING STANDARDS

ENERGY COMPLIANCE

ENERGY ANALYSIS

ENERGY ANALYSIS (SAMPLE - NO REGISTER) (OWNER TO PROVIDE SITE SPECIFIC ANALYSIS)

BEST MANAGEMENT PRACTICE

ARCHITECTURAL

ARCHITECTURAL NOTES

SAMPLE SITE PLAN (OWNER TO PROVIDE SITE SPECIFIC SITE PLAN)

FLOOR PLAN **ROOF PLAN & CROSS SECTIONS** 

ELEVATIONS ARCHITECTURAL DETAILS

STRUCTURAL NOTES FOUNDATION PLAN & FRAMING PLAN

SD1 STRUCTURAL DETAILS

E-MAIL:

# STRUCTURAL DETAILS

- •• THE ADU SHALL MAINTAIN A MINIMUM 4-FT SETBACK TO PROPERTY

- ENERGY DOCUMENTATION SERVING THE DWELLING
- •• ASSOCIATED MECHANICAL EQUIPMENT (AC CONDENSER / HEAT

- SEWER LINE ROUTE & CONNECTIONS
- SITE DRAINAGE AWAY FROM THE NEW FOUNDATION AND DIRECT SITE

# FOUNDATION SYSTEM

- 2. IF THE ADU IS TO BE LOCATED ON A SLOPE / HILLSIDE OR EXPANSIVE SOIL,

# DIRECTORY

PROPERTY OWNER NAME: **ADDRESS:** PHONE:

# SITE PLAN & TITLE SHEET INFORMATION PREPARED BY:

COMPANY: CONTACT PERSON:

# ENERGY CALCULATIONS PREPARED BY:

14'-0''

COMPANY:

CONTACT PERSON: ADDRESS: PHONE: E-MAIL: **FOOTPRINTS** 

SCALE:  $\frac{1}{8}$ " = 1'-0" 31'-0" (N) ADU 800.0 SQ. FT. (N) PORCH

68.0 SQ. FT.

17'-0''

CONSTRUCTION DOCUMENTS, THE RECIPIENT WNERS AGREE TO RELEASE, HOLD HARMLES AND IDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO VERIFY AN' AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT.

BY USING THESE PERMIT READY

PICO

SHEET DESCRIPTION

**COVER SHEET** 

SHEET NO.

T-0.0

# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023) **CHAPTER 3** 4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities. **GREEN BUILDING** When parking is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the **SECTION 301 GENERAL** requirements of Sections 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest whole number. A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 4.106.4.2.1Multifamily development projects with less than 20 dwelling units; and hotels and motels with less than 20 sleeping units or guest rooms. 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration. 1.EV Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical facilities or the addition of new parking facilities serving existing multifamily buildings. See Section system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes. Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved lighting fixtures are not considered alterations for the purpose of this section. for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate 1. When EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates. 2.When EV chargers (Level 2 EVSE) are installed in a number less than the required number of EV capable spaces, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed. 301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and a.Construction documents are intended to demonstrate the project's capability and capacity for facilitating high-rise buildings, no banner will be used. b.There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or **SECTION 302 MIXED OCCUPANCY BUILDINGS** EV chargers are installed for use. **302.1 MIXED OCCUPANCY BUILDINGS.** In mixed occupancy buildings, each portion of a building 2.EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power shall comply with the specific green building measures applicable to each specific occupancy. Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit. 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable. Exception: Areas of parking facilities served by parking lifts. 2. [HCD] For purposes of CALGreen, live/work units, complying with Section 419 of the California Building Code, shall not be considered mixed occupancies. Live/Work units shall comply with 4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more Chapter 4 and Appendix A4, as applicable. **DIVISION 4.1 PLANNING AND DESIGN** The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to 1.EV Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types Department of Housing and Community Development of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 California Building Standards Commission EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical Division of the State Architect, Structural Safety system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all OSHPD Office of Statewide Health Planning and Development EVs at all required EV spaces at a minimum of 40 amperes. Low Rise The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved Additions and Alterations for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. Exception: When EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of parking spaces required by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be RESIDENTIAL MANDATORY MEASURES reduced by a number equal to the number of EV chargers installed over the five (5) percent required. **SECTION 4.102 DEFINITIONS** a. Construction documents shall show locations of future EV spaces. 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) b.There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use. FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water. 2.EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials dwelling unit when more than one parking space is provided for use by a single dwelling unit. such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also Exception: Areas of parking facilities served by parking lifts. used for perimeter and inlet controls. 4.106 SITE DEVELOPMENT 3.EV Chargers. Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. Where common use parking is provided, at least one EV charger shall be located in the common use parking 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation area and shall be available for use by all residents or guests. and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section. When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less an automatic load management system (ALMS) may be used to reduce the maximum required electrical than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers or more, shall manage storm water drainage during construction. In order to manage storm water drainage shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall property, prevent erosion and retain soil runoff on the site. have a capacity of not less than 30 amperes. ALMS shall not be used to reduce the minimum required electrical capacity to the required EV capable spaces. 1. Retention basins of sufficient size shall be utilized to retain storm water on the site. 2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar 4.106.4.2.2.1 Electric vehicle charging stations (EVCS). Electric vehicle charging stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1 disposal method, water shall be filtered by use of a barrier system, wattle or other method approved 3. Compliance with a lawfully enacted storm water management ordinance. Exception: Electric vehicle charging stations serving public accommodations, public housing, motels and hotels shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil. EVCS shall comply with at least one of the following options: (Website: https://www.waterboards.ca.gov/water\_issues/programs/stormwater/construction.html) 4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will 1.The charging space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space. manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: 2.The charging space shall be located on an accessible route, as defined in the California Building Code Chapter 2, to the building. 2. Water collection and disposal systems French drains Exception: Electric vehicle charging stations designed and constructed in compliance with the California 4. Water retention gardens Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section 5. Other water measures which keep surface water away from buildings and aid in groundwater 4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions. **Exception**: Additions and alterations not altering the drainage path. The charging spaces shall be designed to comply with the following: 4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 1.The minimum length of each EV space shall be 18 feet (5486 mm). 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply 2. The minimum width of each EV space shall be 9 feet (2743 mm). equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625. 3.One in every 25 charging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is infrastructure are not feasible based upon one or more of the following conditions: 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional percent slope) in any direction local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4.2.2.1.3 Accessible EV spaces. 4.106.4, may adversely impact the construction cost of the project. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional In addition to the requirements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall parking facilities. comply with the accessibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway 4.106.4.2.3 EV space requirements. 1.Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere proximity to the location or the proposed location of the EV space. Construction documents shall identify the 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit aceway termination point, receptacle or charger location, as applicable. The service panel and/ or subpanel shall overcurrent protective device. have a 40-ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device nstalled, or space(s) reserved to permit installation of a branch circuit overcurrent protective device. Exemption: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is

installed in close proximity to the proposed location of an EV charger at the time of original construction in

accordance with the California Electrical Code.

ion: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space at the time of original construction in accordance with the California Electrical Code. 4.304 OUTDOOR WATER USE The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. 4.106.4.2.5 Electric Vehicle Ready Space Signage. Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/ 4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings. DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or **EFFICIENCY** altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such 1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use. 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING **DIVISION 4.2 ENERGY EFFICIENCY** 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section **4.201 GENERAL** 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste **4.201.1 SCOPE.** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards. DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION 1. Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or 4.303 INDOOR WATER USE recycle facilities capable of compliance with this item do not exist or are not located reasonably 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3. 3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility. Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving **4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN**. Submit a construction waste management plan plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final in conformance with Items 1 through 5. The construction waste management plan shall be updated as completion, certificate of occupancy, or final permit approval by the local building department. See Civil necessary and shall be available during construction for examination by the enforcing agency. Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates. 1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale. 4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per 2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets. 3. Identify diversion facilities where the construction and demolition waste material collected will be Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume 4. Identify construction methods employed to reduce the amount of construction and demolition waste of two reduced flushes and one full flush. 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated 4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. by weight or volume, but not by both. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush. **4.408.3 WASTE MANAGEMENT COMPANY.** Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1 **4.303.1.3.1 Single Showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA Note: The owner or contractor may make the determination if the construction and demolition waste WaterSense Specification for Showerheads. materials will be diverted by a waste management company. **4.303.1.3.2 Multiple showerheads serving one shower**. When a shower is served by more than one 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in allow one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead. 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds 4.303.1.4 Faucets. per square foot of the building area, shall meet the minimum 65% construction waste reduction 4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall **4.408.5 DOCUMENTATION**. Documentation shall be provided to the enforcing agency which demonstrates not be less than 0.8 gallons per minute at 20 psi. compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4... 4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi. 1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in 4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle. 2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). 4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not 4.410 BUILDING MAINTENANCE AND OPERATION to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per **4.410.1 OPERATION AND MAINTENANCE MANUAL.** At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building: Note: Where complying faucets are unavailable, aerators or other means may be used to achieve 1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure. 4.303.1.4.5 Pre-rinse spray valves. 2. Operation and maintenance instructions for the following: When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance a. Equipment and appliances, including water-saving devices and systems, HVAC systems, Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 photovoltaic systems, electric vehicle chargers, water-heating systems and other major (d)(7) and shall be equipped with an integral automatic shutoff. appliances and equipment b. Roof and yard drainage, including gutters and downspouts. FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Space conditioning systems, including condensers and air filters. Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section Landscape irrigation systems. e. Water reuse systems. 3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations. TABLE H-2 4. Public transportation and/or carpool options available in the area. 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range. STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY 6. Information about water-conserving landscape and irrigation design and controllers which conserve VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation. 8. Information on required routine maintenance measures, including, but not limited to, caulking, MAXIMUM FLOW RATE (gpm) [spray force in ounce force (ozf)] painting, grading around the building, etc. 9. Information about state solar energy and incentive programs available. Product Class 1 (≤ 5.0 ozf) 10. A copy of all special inspections verifications required by the enforcing agency or this code. 11. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures. Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf) 1.20 12. Information and/or drawings identifying the location of grab bar reinforcements. Product Class 3 (> 8.0 ozf) 1.28 **4.410.2 RECYCLING BY OCCUPANTS.** Where 5 or more multifamily dwelling units are constructed on a Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray values manufactured on or after January building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)[113 grams-force(gf)] depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling 4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial ordinance, if more restrictive. Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the **Exception:** Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of **4.303.3 Standards for plumbing fixtures and fittings.** Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code. **DIVISION 4.5 ENVIRONMENTAL QUALITY** THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A **SECTION 4.501 GENERAL** CONVENIENCE FOR THE USER. The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous,

**FLOW RATE** 

1.8 GMP @ 80 PSI

MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20

0.5 GPM @ 60 PSI

NOT APPLICABLE
RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER,
OWNER, CONTRACTOR, INSPECTOR ETC.) 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

CITY OF PICO RIVERA **COMMUNITY & ECONOMIC** DEVELOPMENT DEPARTMENT 6615 PASSONS BLVD. PICO RIVERA, CA 90660

AD

ROVED

PHONE: (562) 801-4332 DATE: 1 / 1 / 2025

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BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT OWNERS AGREE TO RELEASE, HOLD HARMLESS AND IDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PERMIT READY

CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT.

SHEET DESCRIPTION

irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.

AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door

medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood,

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and

cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.

The following terms are defined in Chapter 2 (and are included here for reference)

SECTION 4.502 DEFINITIONS

CALIFORNIA GREEN **BUILDING STANDARDS** 

construction in accordance with the California Electrical Code. structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated **4.106.4.1.1 Identification.** The service panel or subpanel circuit directory shall identify the overcurrent 1.8 GPM @ 60 PSI KITCHEN FAUCETS wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination 2.Multiple EV spaces required. Construction documents shall indicate the raceway termination point and the METERING FAUCETS 0.2 GAL/CYCLE location shall be permanently and visibly marked as "EV CAPABLE". location of installed or future EV spaces, receptacles or EV chargers. Construction documents shall also provide information on amperage of installed or future receptacles or EVSE, raceway method(s), wiring schematics and DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for WATER CLOSET 1.28 GAL/FLUSH electrical load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere. raceways and related components that are planned to be installed underground, enclosed, inaccessible or in 0.125 GAL/FLUSH concealed areas and spaces shall be installed at the time of original construction. DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is

installed in close proximity to the location or the proposed location of the EV space, at the time of original

FIXTURE TYPE

USE AREAS

SHOWER HEADS (RESIDENTIAL)

LAVATORY FAUCETS (RESIDENTIAL)

LAVATORY FAUCETS IN COMMON & PUBLIC

TABLE - MAXIMUM FIXTURE WATER USE

# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

MANDATORY MEASURES, SHEET 2 (January 2023)

			RESIDENTIAL	M
Y	N/A	RESPON. PARTY		Y N/A
			MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O³/g ROC).  Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.  MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.  PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).  Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).  REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.  VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).	
			4.503 FIREPLACES 4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.	
			4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.	
			4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.	
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Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and tricloroethylene), except for aerosol products, as specified in Subsection 2 below. 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with section 94507.

shall comply with local or regional air pollution control or air quality management district rules where

applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable.

4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks

requirements of the following standards unless more stringent local or regional air pollution or air quality

**4.504.2.2 Paints and Coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories

Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in 4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation

listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss

coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources

**4.504.2.4 Verification.** Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

 Manufacturer's product specification. 2. Field verification of on-site product containers.

management district rules apply:

(Less Water and Less Exempt Compounds in Grams	per Liter)
ARCHITECTURAL APPLICATIONS	VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVE	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED. 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE

THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

Less Water and Less Exempt Compounds in G	rams per Liter)
SEALANTS	VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR

NONFLAT-HIGH GLOSS COATINGS  SPECIALTY COATINGS  ALUMINUM ROOF COATINGS  BASEMENT SPECIALTY COATINGS  BITUMINOUS ROOF COATINGS  BITUMINOUS ROOF PRIMERS  BOND BREAKERS  CONCRETE CURING COMPOUNDS  CONCRETE/MASONRY SEALERS  DRIVEWAY SEALERS  DRY FOG COATINGS  FIRE RESISTIVE COATINGS  FIRE RESISTIVE COATINGS  FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH TEMPERATURE COATINGS  INDUSTRIAL MAINTENANCE COATINGS  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  RECYCLED COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS &  UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	VOC LIMIT
NON-FLAT COATINGS NONFLAT-HIGH GLOSS COATINGS SPECIALTY COATINGS ALUMINUM ROOF COATINGS BASEMENT SPECIALTY COATINGS BITUMINOUS ROOF COATINGS BITUMINOUS ROOF PRIMERS BOND BREAKERS CONCRETE CURING COMPOUNDS CONCRETE CURING COMPOUNDS CONCRETE/MASONRY SEALERS DRIVEWAY SEALERS DRIVEWAY SEALERS DRY FOG COATINGS FIER RESISTIVE COATINGS FIER RESISTIVE COATINGS FORM-RELEASE COMPOUNDS GRAPHIC ARTS COATINGS (SIGN PAINTS) HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS WATERPROOFING MEMBRANES	50
SPECIALTY COATINGS  ALUMINUM ROOF COATINGS  BASEMENT SPECIALTY COATINGS  BITUMINOUS ROOF COATINGS  BITUMINOUS ROOF PRIMERS  BOND BREAKERS  CONCRETE CURING COMPOUNDS  CONCRETE/MASONRY SEALERS  DRIVEWAY SEALERS  DRIVEWAY SEALERS  DRY FOG COATINGS  FAUX FINISHING COATINGS  FIRE RESISTIVE COATINGS  FICOR COATINGS  FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH TEMPERATURE COATINGS  INDUSTRIAL MAINTENANCE COATINGS  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	100
ALUMINUM ROOF COATINGS BASEMENT SPECIALTY COATINGS BITUMINOUS ROOF COATINGS BITUMINOUS ROOF PRIMERS BOND BREAKERS CONCRETE CURING COMPOUNDS CONCRETE/MASONRY SEALERS DRIVEWAY SEALERS DRY FOG COATINGS FAUX FINISHING COATINGS FIRE RESISTIVE COATINGS FICOR COATINGS FORM-RELEASE COMPOUNDS GRAPHIC ARTS COATINGS (SIGN PAINTS) HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATINGS LOW SOLIDS COATINGS MASTIC TEXTURE COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATERS RECYCLED COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS WATERPROOFING MEMBRANES WATERPROOFING MEMBRANES	150
BASEMENT SPECIALTY COATINGS BITUMINOUS ROOF COATINGS BITUMINOUS ROOF PRIMERS BOND BREAKERS CONCRETE CURING COMPOUNDS CONCRETE/MASONRY SEALERS DRIVEWAY SEALERS DRIVEWAY SEALERS DRY FOG COATINGS FAUX FINISHING COATINGS FIRE RESISTIVE COATINGS FICOR COATINGS FORM-RELEASE COMPOUNDS GRAPHIC ARTS COATINGS (SIGN PAINTS) HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATINGS LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATERS RECYCLED COATINGS RUST PREVENTATIVE COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS TUB & TILE REFINISH COATINGS WATERPROOFING MEMBRANES	
BITUMINOUS ROOF COATINGS BITUMINOUS ROOF PRIMERS BOND BREAKERS CONCRETE CURING COMPOUNDS CONCRETE/MASONRY SEALERS DRIVEWAY SEALERS DRIVEWAY SEALERS DRIVEWAY SEALERS DRY FOG COATINGS FAUX FINISHING COATINGS FIRE RESISTIVE COATINGS FICOR COATINGS FORM-RELEASE COMPOUNDS GRAPHIC ARTS COATINGS (SIGN PAINTS) HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATINGS LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TUB & TILE REFINISH COATINGS TUB & TILE REFINISH COATINGS	400
BITUMINOUS ROOF PRIMERS  BOND BREAKERS  CONCRETE CURING COMPOUNDS  CONCRETE/MASONRY SEALERS  DRIVEWAY SEALERS  DRY FOG COATINGS  FAUX FINISHING COATINGS  FIRE RESISTIVE COATINGS  FICOR COATINGS  FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH TEMPERATURE COATINGS  INDUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  TUB & TILE REFINISH COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	400
BOND BREAKERS  CONCRETE CURING COMPOUNDS  CONCRETE/MASONRY SEALERS  DRIVEWAY SEALERS  DRY FOG COATINGS  FAUX FINISHING COATINGS  FIRE RESISTIVE COATINGS  FLOOR COATINGS  FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH TEMPERATURE COATINGS  INDUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS  MAGNESITE CEMENT COATINGS  METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  RECYCLED COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	50
CONCRETE CURING COMPOUNDS  CONCRETE/MASONRY SEALERS  DRIVEWAY SEALERS  DRY FOG COATINGS  FAUX FINISHING COATINGS  FIRE RESISTIVE COATINGS  FICOR COATINGS  FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH TEMPERATURE COATINGS  INDUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	350
CONCRETE/MASONRY SEALERS  DRIVEWAY SEALERS  DRY FOG COATINGS  FAUX FINISHING COATINGS  FIRE RESISTIVE COATINGS  FICOR COATINGS  FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH TEMPERATURE COATINGS  INDUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS:  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	350
DRIVEWAY SEALERS  DRY FOG COATINGS  FAUX FINISHING COATINGS  FIRE RESISTIVE COATINGS  FICOR COATINGS  FLOOR COATINGS  FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH TEMPERATURE COATINGS  INDUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	350
DRY FOG COATINGS  FAUX FINISHING COATINGS  FIRE RESISTIVE COATINGS  FLOOR COATINGS  FLOOR COATINGS  FLOOR COATINGS  FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH TEMPERATURE COATINGS  INDUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  RECYCLED COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	100
FAUX FINISHING COATINGS  FIRE RESISTIVE COATINGS  FLOOR COATINGS  FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH TEMPERATURE COATINGS  INDUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS:  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	50
FIRE RESISTIVE COATINGS  FLOOR COATINGS  FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH TEMPERATURE COATINGS  INDUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS:  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	150
FLOOR COATINGS FORM-RELEASE COMPOUNDS GRAPHIC ARTS COATINGS (SIGN PAINTS) HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATINGS LOW SOLIDS COATINGS1 MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TUB & TILE REFINISH COATINGS WATERPROOFING MEMBRANES	350
FORM-RELEASE COMPOUNDS GRAPHIC ARTS COATINGS (SIGN PAINTS) HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATINGS LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS TUB & TILE REFINISH COATINGS WATERPROOFING MEMBRANES	350
GRAPHIC ARTS COATINGS (SIGN PAINTS) HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATINGS LOW SOLIDS COATINGS1 MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS TUB & TILE REFINISH COATINGS WATERPROOFING MEMBRANES	100
HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATINGS LOW SOLIDS COATINGS1 MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS WATERPROOFING MEMBRANES	250
INDUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS1  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  ROOF COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	500
MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  ROOF COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  WATERPROOFING MEMBRANES	420
MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  ROOF COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	250
MASTIC TEXTURE COATINGS  METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  ROOF COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	120
METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  ROOF COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	450
MULTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  ROOF COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	100
PRETREATMENT WASH PRIMERS  PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  ROOF COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	500
PRIMERS, SEALERS, & UNDERCOATERS  REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  ROOF COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	250
REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS TUB & TILE REFINISH COATINGS WATERPROOFING MEMBRANES	420
RECYCLED COATINGS  ROOF COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	100
ROOF COATINGS  RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	350
RUST PREVENTATIVE COATINGS  SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	250
SHELLACS  CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	50
CLEAR  OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	250
OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	730
UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS TUB & TILE REFINISH COATINGS WATERPROOFING MEMBRANES	550
STONE CONSOLIDANTS  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	100
SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	250
TRAFFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES	450
TUB & TILE REFINISH COATINGS WATERPROOFING MEMBRANES	340
WATERPROOFING MEMBRANES	100
	420
WOOD COATINGS	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

TABLE 4.504.5 - FORMALDEHYDE LIMITS MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT **CURRENT LIMIT** HARDWOOD PLYWOOD VENEER CORE 0.05 HARDWOOD PLYWOOD COMPOSITE CORE 0.05 PARTICLE BOARD 0.09 MEDIUM DENSITY FIBERBOARD 0.11 THIN MEDIUM DENSITY FIBERBOARD2

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).

**DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)** 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for

See California Department of Public Health's website for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx. 4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)

See California Department of Public Health's website for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

**4.504.3.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 4.504.1.

4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed , at least 80% of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)

See California Department of Public Health's website for certification programs and testing labs.

hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx

**4.504.5 COMPOSITE WOOD PRODUCTS.** Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5

**4.504.5.1 Documentation.** Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

Product certifications and specifications.

Chain of custody certifications. Product labeled and invoiced as meeting the Composite Wood Products regulation (see

CCR, Title 17, Section 93120, et seq.). Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards.

5. Other methods acceptable to the enforcing agency.

4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code.

4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.

4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the

- 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute,
- 2. Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional.

**4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS.** Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:

- 1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements
- found in Section 101.8 of this code. 2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end
- 3. At least three random moisture readings shall be performed on wall and floor framing with documentation

acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to

recommendations prior to enclosure.

4.506 INDOOR AIR QUALITY AND EXHAUST

enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying

**4.506.1 Bathroom exhaust fans.** Each bathroom shall be mechanically ventilated and shall comply with the

- 1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. 2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a
- a. Humidity controls shall be capable of adjustment between a relative humidity range less than or
- equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of
- b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

- 1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or
- 2. Lighting integral to bathroom exhaust fans shall comply with the *California Energy Code*.

### 4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:

- 1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J 2011 (Residential
- Load Calculation), ASHRAE handbooks or other equivalent design software or methods. 2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems),
- ASHRAE handbooks or other equivalent design software or methods. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential
- Equipment Selection), or other equivalent design software or methods.

**Exception:** Use of alternate design temperatures necessary to ensure the system functions are

# **CHAPTER 7**

**INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702 QUALIFICATIONS** 

**702.1 INSTALLER TRAINING.** HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- 1. State certified apprenticeship programs.
- 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
- 4. Programs sponsored by manufacturing organizations. 5. Other programs acceptable to the enforcing agency.

**702.2 SPECIAL INSPECTION [HCD].** When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- . Certification by a national or regional green building program or standard publisher.
- 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
- Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.

shall be closely related to the primary job function, as determined by the local agency.

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate

homes in California according to the Home Energy Rating System (HERS).

[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

### 703 VERIFICATIONS

**703.1 DOCUMENTATION.** Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

CITY OF PICO RIVERA **COMMUNITY & ECONOMIC** DEVELOPMENT DEPARTMENT 6615 PASSONS BLVD. PICO RIVERA, CA 90660 PHONE: (562) 801-4332

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DATE: 1 / 1 / 2025

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BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT OWNERS AGREE TO RELEASE, HOLD HARMLESS AND IDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE

SHEET DESCRIPTION

CALIFORNIA GREEN **BUILDING STANDARDS** 

RECIPIENT'S WORK AND RESPONSIBILITY ON

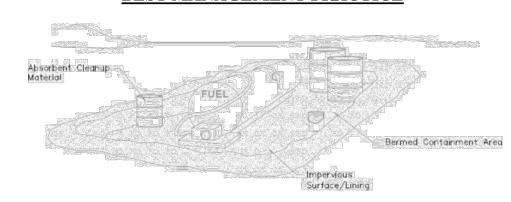
DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

### 

A straw bale border is a temporary linear sediment barrier consisting of straw bales, designed to intercept and slow sediment laden sheet flow runoff. Straw bale barriers allow sediment to settle from runoff before water leaves the construction site.

- 1. Place along the perimeter of a site, streams and channels, and/or around stockpiles.
- Place below the toe of exposed and erodible slopes.
- Place downslope of exposed soil areas. Place parallel to roadway to keep sediment off paved areas.
- 5. Do no use for drain inlet protection or in areas of concentrated flows. 6. Straw bale to be minimum of 14 inches wide, 18 inches in height, and 36 inches in length.
- Shall be composed entirely of vegetative material, except for the binding material.
- 8. Bale bindings shall be either steel wire, nylon or polypropylene string placed horizontally. 9. Commercial quality lumber shall be used for 2 inch by 2 inch wood stakes of adequate length.
- 10. Limit the drainage area upstream of the border to 0.25 ac/100 ft. 11. Limit the slope length draining to the straw bale barrier to 100 ft.
- 12. Slopes of 2 percent or flatter area preferred.
- 13. If slope exceeds 10 percent, the length of the slope upstream of the barrier must be less than 50 ft.
- 14. Install straw barrier along a level contour, in a trench and tightly abut adjacent bales. 15. Last straw bale on end needs to be turned up slope.
- 16. Inspect straw bale barriers before and after each rain event.
- 17. Inspect straw bale barriers for sediment accumulations and remove sediment when depth reaches 1/3 of
- 18. Replace or repair damaged bales as needed.
- Page 13 of 13

### **BEST MANAGEMENT PRACTICE**



# VEHICLEY EQUIPMENT FULLING

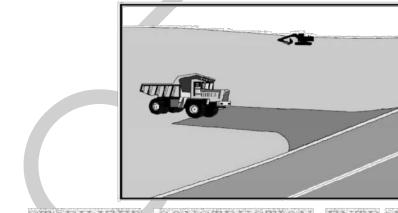
- 1. Fueling shall be performed in a designated area and away from drainage courses.
- 2. Absorbent cleanup material shall be on site and used immediately in the event of a spill. 3. Drip pans or absorbent pads shall be used during vehicle and equipment fueling, unless the fueling is
- performed over an impermeable surface in a dedicated fueling area. 4. Dedicated fueling areas shall be protected from storm water run-on and runoff, and shall be located at
- least 50 feet from downstream drainage facilities and water courses. Fueling must be performed on level-
- 5. Protect fueling areas with berms and/or dikes to prevent run-on, runoff, and to contain spills.

1. Soil/Slope stabilization practices shall be designed to preserve existing vegetation where feasible and to revegetate open areas as soon as feasible after grading. These control practices shall include temporary seeding, permanent seeding, mulching, sod stabilization, vegetative bugger strips, protection of trees, or other soil

**BEST MANAGEMENT PRACTICE** 

- Soil stabilization shall be implemented on all inactive disturbed areas from October 1 thru May 30 and on all disturbed areas during a rain event or potential rain.
- Soil stabilization practices shall control/prevent erosion from the forces of wind and water. Stabilization practices shall be implemented in conjunction with sediment trapping/filtering practices and
- practices to reduce the tracking of sediment onto paved roads. When using straw mulching, the minimum application shall be 2 tons/acre. Mulch must be anchored immediately to minimize loss by wind or water
- When using hydroseeding/mulching, the minimum application of wood fiber shall be 1,500 lbs/acre, that does not contain more than 50 percent newsprint.
- For seeding recommendations, contact: USDA, Natural Resource Conversation Service at 44811 Date Ave, Lancaster, CA 93534-3136. Phone: (661) 945-2604
- When using hydraulic mulch, the application shall be between 1 to 2 tons per acre.
- 9. Geotextiles, mates, plastic covers, and erosion control blankets should be considered when disturbed soils may be particularly difficult to stabilize.
- 10. For geotextiles, mats, and erosion control blankets, installation should be in accordance with manufacture's recommendations. Typically, overlap of geotextiles/mats edge is 2 to 3 inch end-over-end (shingle style) with 6 inch overlap and staple through overlapped area, approximately 12 inch apart

### BEST MANAGEMENT PRACTICE



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- Sediments and other materials shall not be tracked from the site by vehicle traffic. The construction entrance roadways shall be stabilized so as to prevent sediments from being deposited into the public roads. Sediment deposited on the roadway must be swept up immediately and may not be washed down by rain or other means into the storm drain system. See Type 1 and Type 2 details.
- - public right of way, street, alley, and sidewalk or parking area.
- Adding a wash rack with a sediment trap large enough to collect all wash water can greatly improve
  - Remove all sediment deposited on paved roadways immediately.

### BEST MANAGEMENT PRACTICE

- **BEST MANAGEMENT PRACTICE NOTES:** 1. Every effort should be made to eliminate the discharge of non-storm water from the project site at all
- 2. Eroded sediments and other pollutants must be retained on-site and may not be transported from the
- site via sheet flow, swales, area drains, natural drainage courses or wind. 3. Stockpiles of earth and other construction related materials must be protected from being transported
- 4. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.

CITY OF PICO RIVERA

6615 PASSONS BLVD.

PICO RIVERA, CA 90660

PHONE: (562) 801-4332

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DATE: 1 / 1 / 2025

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

5. Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on-site until they can be disposed of as solid waste.

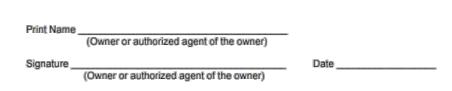
from the site by the forces of wind or water.

Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind. 7. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public

way. Accidental depositions must be swept up immediately and may not be washed down by rain or

Any slopes with disturbed soils or vegetation must be stabilized so as to inhibit erosion by wind and

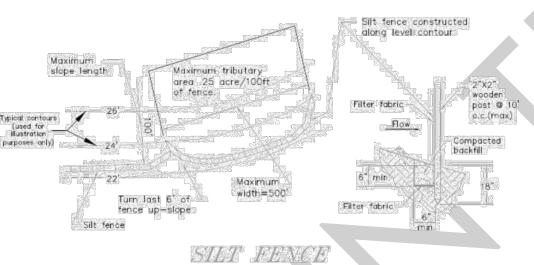
"I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate th information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that submitting false and/or inaccurate information, failing to update the plans to reflect current conditions, or failing to properly and/or adequately implement BMP's may result in revocation of grading and/or other permits or other sanctions provided by law."



Page 1 of 13

### BEST MANAGEMENT PRACTICE

Page 10 of 13



Notes:

- 1. Construct the silt fence along a level contour. 2. Silt fences shall remain in place until the disturbed area is permanently stabilized.
- 3. Provide sufficient room for runoff to pond behind the fence and allow sediment removal equipment to pass between the silt fence and toe of slope or other obstructions. About 1,200 sq.-ft. of ponding area shall be provided for every acre draining to the fence.
- 4. Turn the ends of the filter fence uphill to prevent storm water from flowing around the fence.
- 5. Leave an undisturbed or stabilized area immediately downslope from the fence.
- 6. Do not place in live stream or intermittently flowing channels. 7. When standard filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the post using heavy-duty (0.6 inch) wire staples at least 1.75 inches long, tie wires or hog
- 8. Filter fabric shall be woven polypropylene geotextile with a minimum width of 36 inches and a
- minimum tensile strength of 100 lb force.

Page 11 of 13

BEST MANAGEMENT PRACTICE

Place along the toe, top, face, and at grade breaks of exposed and erodible slopes.

7. Slopes 1:4 or flatter require fiber rolls to be placed no more than 20 feet apart.

12. A single-stake installation required the stakes to be placed no more than 2 feet apart.

8. Slopes 1:4 to 1:2 require fiber rolls to be placed no more than 15 feet apart. 9. Slopes 1:2 or greater require fiber rolls to be placed no more than 10 feet apart.

be a minimum length of 24 inches and driven a minim 12 inches.

5. Slopes greater than 1:5 may require the use of 20 inch diameter fiber rolls at the top of slopes.

6. Fiber rolls shall be either prefabricated or rolled tubes of erosion control blankets with a minimum 8 inch diameter.

11. Wooden commercial grade stakes, 3/4" x 3/4", shall be used to secure the fiber roll to the ground surface. Stakes shall

13. If more than one fiber roll is placed in a row, the rolls shall be overlapped, not abutted a minimum of 1 foot.

Page 12 of 13

Place on the down-slope of exposed soil areas.

10. Fiber rolls shall be placed in a 2 to 4 inch deep trench.

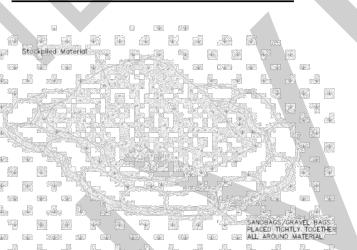
Place around temporary stockpiles.

4. Place along the perimeter of a project.

9. Wood stakes shall be commercial quality lumber no less than 2 inch by 2 inch. Wood stakes shall be driven to a depth of no less than 18 inches from surface.

TYPICAL FIBER ROLL INSTALLATION

### **BEST MANAGEMENT PRACTICE**



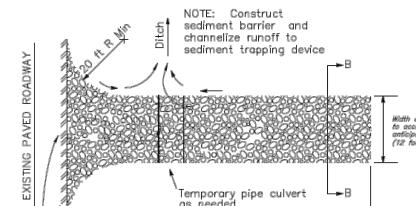
- Stockpile management procedures and practices are designated to reduce or eliminate air and storm water pollution from stockpiles of soil, and paving materials such as Portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate sub-base or pre-mixed aggregate, asphalt binder and pressure treated wood.
- 1. Protection of stockpile is a year-round requirement.
- 2. Locate stockpiles a minimum of 50 feet away from concentrated flows of storm water, drainage course,

Page 8 of 13

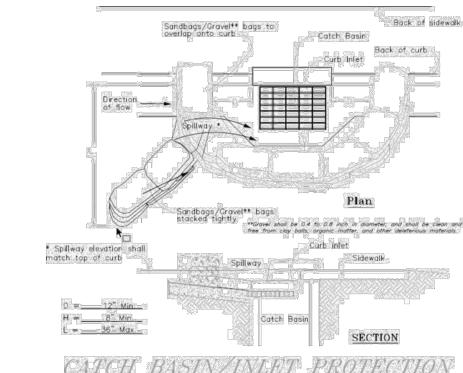
BEST MANAGEMENT PRACTICE

- 3. Implement wind erosion/transport control practices as appropriate.
- 4. All stockpiles shall be covered, stabilized, or protected with a temporary linear barrier (i.e. sandbags, etc.) prior to the onset of precipitation.

L12 inch minimum, unless otherwise specified by a soils engineer. Aggregate can be placed on original grade or subgrade.



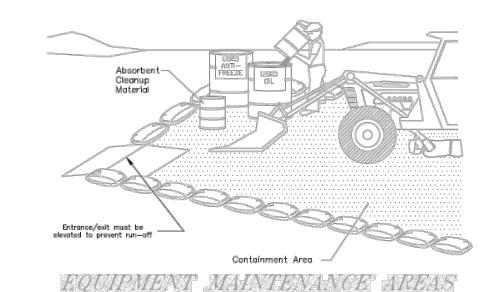
# BEST MANAGEMENT PRACTICE



- 1. Catch Basin/Inlet protection shall be installed wherever there is a potential of storm water or non-storm water being discharged into it.
- 2. Inlet protection is required along with other pollution prevention measures, such as erosion control, soil stabilization, and measures to prevent tracking onto paved surfaces.
- 3. Modify inlet protection as needed to avoid creating traffic hazards. 4. Include inlet protection measures at hillside v-ditches and misc. drainage swales.
- 5. Inlet protection shall be inspected and accumulated sediments removed. Sediment shall be disposed of properly and in a manner than assures that the sediment does not enter the storm drain system.
- 6. Damage bags shall be replaced immediately. 7. Additional sandbag sediment traps shall be placed at intervals as indicated on site plan.

# Page 2 of 13

# BEST MANAGEMENT PRACTICE



- Leaking vehicles and equipment shall not be allowed on site. Equipment and vehicles shall be inspected frequently for leaks and shall be repaired immediately. Clean up spills and leaks promptly with absorbent materials. Do not flush with water.
- Vehicles and equipment shall be maintained and repaired on site only in designated areas. Prevent runon and run-off from designated areas. Containment devices shall be provided and areas shall be covered if necessary.
- 3. Designate onsite vehicle and equipment maintenance areas, away from storm drain inlets and water
- 4. Always use secondary containment, such as a drain pan or drop cloth, to catch spills and leaks when
- removing or changing fluids. 5. Legally dispose of used oils, fluids, lubricants, and batteries.
- 6. Provide spill containment dikes or secondary containment around stored oil, fuel, and chemical drums. 7. Maintain an adequate supply of absorbent spill cleanup materials in designated area.
- 8. It is the contractor's responsibility to regularly inspect the vehicle and equipment maintenance area(s). Page 3 of 13

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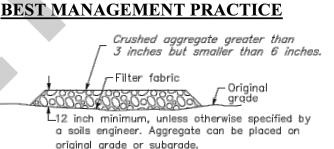
AND IDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. SHEET DESCRIPTION

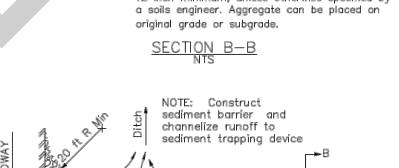
BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT WNERS AGREE TO RELEASE, HOLD HARMLES

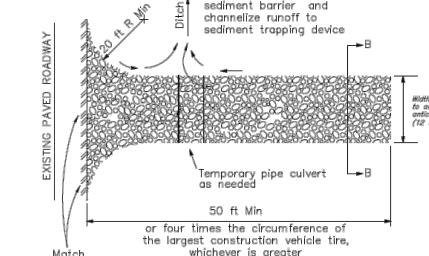
**BEST MANAGEMENT** PRACTICES

- Stabilized construction entrance shall be: a. Located at any point where traffic will be entering or leaving a construction site to or from a
- b. A series of steel plates with "rumble strips" and/or min > 3" to < 6" crushed aggregate with length, width & thickness as needed to adequately prevent any tracking onto paved surfaces.
- 4. All vehicles accessing the construction site shall utilize the stabilized construction entrance sites.
  - b. Sweep paved areas that receive construction traffic whenever sediment becomes visible. <u>Pavement washing with water is prohibited</u> if it results in a discharge to the storm drain system.

# Page 4 of 13



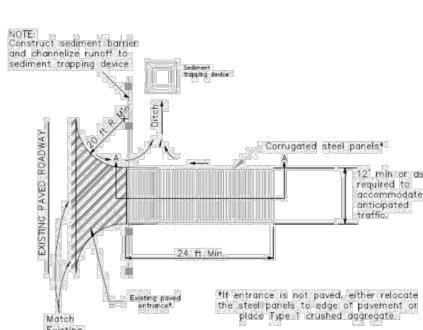




# whichever is greater TYPE 1 GRAVEL ENTRANCE/EXIT

# Page 5 of 13

# BEST MANAGEMENT PRACTICE Corrugated steel panels



TYPE 2 ALTERNATIVE ENTRANCE EXIT use of corrugated steel plates, shaker plates, rumble plates, etc.

- 1. Excess and waste concrete shall not be washed into the street or into a drainage system. 2. For washout of concrete and mortar products, a designated containment facility of sufficient capacity to

Page 9 of 13

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### retain liquid and solid waste shall be provided on site and disposed of properly off site. 3. Slurry from concrete and asphalt saw cutting shall be vacuumed or contained, dried, picked up, and

### Page 6 of 13

### 2022 Single-Family Residential Mandatory Requirements Summary

Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, or a dedicated raceway from the main service to a subpanel that supplies the branch circuits in § 150.0(s); at least four branch circuits must be identified and have their source collocated at a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of the main panelboard, with raceways installed between the panelboard and the switch location to allow the connection of backup power source. Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use." Electric Cooktop Ready. Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

Electric Clothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

\*Exceptions may apply.

### 2022 Single-Family Residential Mandatory Requirements Summary

Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must § 150.0(m)13: be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with

§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1. *
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)1Biii&iv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses. Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand controlled exhaust system meeting requirements of §150.0(o)1Giii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. *
§ 150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
§ 150.0(o)2:	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)1G
Pool and Spa Sys	tems and Equipment:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: complia with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.*
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the he dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves. *
_ighting:	
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.*
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, k range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, a closets with an efficacy of at least 45 lumens per watt.
§ 150.0(k)1B:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be a rand must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
§ 150.0(k)1D:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1E:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.
§ 150.0(k)1F:	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k). *



### 2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach

§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square f less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011. *
§ 110.6(a)5:	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b):	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values fit Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped.*
§ 110.7:	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage me caulked, gasketed, or weather stripped.
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Hou Goods and Services (BHGS).
§ 110.8(g):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Affairs.
§ 150.0(a):	Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weight average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted av U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic acces doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.
§ 150.0(b):	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inc framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0. Masonry walls must meet Tables 150.1-A or B. *
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation ma without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to §150.0(d).
§ 150.0(g)2:	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space si all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoo a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45. *
•	orative Gas Appliances, and Gas Log:
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of

Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square in thes in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device. \*

§ 150.0(e)3: Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control. \* Space Conditioning, Water Heating, and Plumbing System:

Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission. \*

§ 110.2(a): HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N. \* Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating. \* Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a § 110.2(c): setback thermostat. \*
Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or ta surface heat loss rating.

Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with § 110.3(c)6: Solution valves. Installial ledus water heaters what all impact using ground the state of the st

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### 2022 Single-Family Residential Mandatory Requirements Summary

Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances

§ 110.5:	(except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour ); and pool and
	spa heaters. *
§ 150.0(h)1:	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of ar dryer.
§ 150.0(h)3B:	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by manufacturer's instructions.
§ 150.0(j)1:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code. *
§ 150.0(j)2:	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment' maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain no more than 2" higher than the base of the water heater
§ 150.0(n)3:	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.
ucts and Fans:	
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HV AC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than ¼", If mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in
	these spaces must not be compressed. *
§ 150.0(m)2:	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construct on connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive apmastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)7:	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind.  Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core an

Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an

Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV

Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the

§ 150.0(m)11: occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.

§ 150.0(m)12: or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A.

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PRE CO-RIV

PICO

AD

- APPROVED , ERA, CA

CITY OF PICO RIVERA

6615 PASSONS BLVD.

PICO RIVERA, CA 90660

PHONE: (562) 801-4332

COMMUNITY & ECONOMIC

DEVELOPMENT DEPARTMENT

DATE: 1 / 1 / 2025

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT OWNERS AGREE TO RELEASE, HOLD HARMLESS AND IDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON

THIS PROJECT. SHEET DESCRIPTION

> RESIDENTIAL **MANDATORY MEASUREMENTS**

SHEET NO.

T24-1

### 2022 Single Early Decidential Mandatory Requirements Su

	2022 Single-Family Residential Mandatory Requirements Summary
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
3 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
3 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems. *
§ 150.0(k)2A:	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)2B:	Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is install to comply with § 150.0(k).
§ 150.0(k)2C:	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 150.0(k)2A.
§ 150.0(k)2E:	Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.
§ 150.0(k)2F:	Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, of other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements.
§ 150.0(k)4:	Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(k)5:	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
olar Readiness:	
§ 110.10(a)1:	Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e).
§110.10(b)1A:	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet.*
§ 110.10(b)2:	Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.10(b)3A:	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and remounted equipment. *
§ 110.10(b)3B:	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice thorizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
§ 110.10(b)4:	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.
§ 110.10(d):	Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) in ust provided to the occupant.
§ 110.10(e)1:	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pol

5/6/22

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PONSIBLE PERSON'S DECLARATION STATEMENT		<u>G</u>		
ify the following under penalty of perjury, under the laws of the State of California:  1. I am eligible under Division 3 of the Business and Professions Code to accept 2. I certify that the energy features and performance specifications identified of 3. The building design features or system design features identified on this Cer 4. Calculations, plans and specifications submitted to the enforcement agency	t responsibility for the on this Certificate of C tificate of Compliance	empliance conform to the requirements are consistent with the information prov	of Title 24, Part 1 and Part 6 of the Californ	
onsible Designer Name:	-	Responsible Designer Signature:		
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gistration Number:	Registra	ition Date/Time:	HERS Provider:	
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01	NSTRUCTIONS 02	03	04	05	06 07		08	ENERGY USE INTENSITY	Standar	rd Design (kBtu/ft <sup>2</sup> - yr )	Proposed De
Construction Name	e Surface Type	Construction Type	Framing	P-value C	rior / Exterior ontinuous U-factor R-value	Assem	bly Layers	North Facing  Gross EUI <sup>1</sup>		21.78	
Exterior Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21 N	one / None 0.065	Cavity / Fra	Gypsum Board me: R-21 / 2x6 nsulation: Wood	Net EUI <sup>2</sup>		7.67	
onstruction Assemb	ыу					Exterior Finis	thing/decking h: 3 Coat Stucco	East Facing		21.78	
Asphalt Shingle Roo	of Attic Roofs	Wood Framed Ceiling	2x8 @ 16 in. O. C	R-19 N	one / None 0.055	Roof De Siding/shea	of (Asphalt Shingle) eck: Wood thing/decking	Gross EUI <sup>1</sup> Net EUI <sup>2</sup>		7.67	
Ceiling Construction	n Ceilings (below	Wood Framed	100		/	Over Ceiling Jo	ne: R-19 / 2x8 ists: R-23.7 insul.	South Facing			
Assembly	attic)	Ceiling	2x6 @ 16 in. D. C.	R-38 N	one / None 0.026		ne: R-14.3 / 2x6 Gypsum Board	Gross EUI <sup>1</sup> Net EUI <sup>2</sup>		7.67	40
LDING ENVELOPE - 01	- HERS VERIFICATION	02	03		04		05	West Facing			<u> </u>
uality Insulation Ins Require		Not Required	Building Envelope A	ir Leakage	CFM50 n/a		<b>CFM50</b> n/a	Gross EUI <sup>1</sup> Net EUI <sup>2</sup>		7.67	
ATER HEATING SYST	EMS							Notes	Jse Total (not including P	. 6	
01 Name	02 System Type Dis		05 ater Name Number of U	06 Solar Heating	07 Compact	08 HERS Verification	09 Water Heater	2. Net EUI is Energy Us	e Total (including PV) / To		
DHW System 1	Domestic Hot HER	S Verified Pine	Heater 1 1	System n/a	<b>Distribution</b> None	DHW System 1-hers-dhw	Name (#) Water Heater 1 (1)			C	
						1 11000 01111				•)	
egistration Number:			Registration I	Date/Time:	HE	RS Provider:		Registration Number:			Regi
A Building Energy Eff	ficiency Standards - 2022 R	esidential Compliance		n: 2022.0.000 on: rev 20220901	Re	port Generated: 2025	01-01 10:59:26	CA Building Energy Efficie	ency Standards - 2022 Re	sidential Compliance	Repo Sche
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lculation Descript	ion: PRE-APPROVED AD	U			PROVED ADU 1231202		, 5 <b></b> ,	Calculation Description			
O1	EA HEAT PUMP 02	03	04	05	06	07	08	REQUIRED PV SYSTEMS 01	02	03 04	
Name	# of Units	Tank Vol. (gal)	Brand	EEA Heat Pump Model			Ouct Outlet Air Source	DC System Size (kWdc)	exception Mo	dule Type Array Ty	pe Power I
Water Heater 1	1 PS VEDICICATION	40	Rheem Rh	eem HPLD40 IRH	TankZone	Outside	Outside	1.94	NA Standa	ard (14-17%) Fixed	Micro
O1	02	03	04	05 Compact Di	stribution	06 Sho	07 wer Drain Water Heat	REQUIRED SPECIAL FEATLE The following are features		s condition for meeting the	modeled energy
Name  DHW System 1 - 1/2	Pipe Insulation  Required	Parallel Pipir  Not Require		Тур	e Recircul	Required Sho	Recovery  Not Required	PV System: 1.94 kV PV power electroni Insulation below re	/dc cs: Microinverters		
CE CONDITIONING	i SYSTEMS				'	I		<ul> <li>Window overhangs</li> </ul>	and/or fins	) rated heat pump water hea	ater; specific brai
01 Name	02 System Type Hear	ting Unit Name Heating E	quipment Cooling Unit N	06 Cooling Equipme	07 ent Fan Name	08  Distribution Name	09 Required	HERS FEATURE SUMMARY The following is a summary		ust be field-verified by a cert	tified HERS Rater
HVAC System 1		- 6	Heat Pump Sys	Count	HVAC Fan System	Distribution System 1	Thermostat Type  Setback	detail is provided in the b     Quality insulation i     Indoor air quality v	nstallation (QII)	istered CF2Rs and CF3Rs are	required to be o
AC - HEAT PUMPS	neating cooling				1	System 1		Kitchen range hood     Verified Refrigerant		,.@	•
01	02		05 06 07 Heating	08 09	10 11	12	13	Pipe Insulation, All	Lines		
Name		ber of Heating HSF	PF/HS Cap 47 Cap 17	Cooling Cooling Efficiency ER2	Zonally EER/EER Controlled	Compressor Type	HERS Verification	BUILDING - FEATURES INI 01	ORMATION 02		
Heat Pump	Multi-split HP-ductless	Туре	3.1 13000 22000	Type ER2 EER2SEER2 23	12.48 Not Zonal		Heat Pump System 1-hers-htpump	Project Name  PRE APPROVED ADU	Conditioned Flor	Unit	ts Nun
TIFICATE OF CON ject Name: PRE A		IL PERFORMANCE COMP		ulation Date/Time: 2	025-01-01(10:58:41-0	3:00	CF1R-PRF-01-E (Page 11 of 13)	CERTIFICATE OF COMPI Project Name: PRE APP		PERFORMANCE COMPLI	IANCE METHOD
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01	02		05 Verified	06 Verified Refriger	07 ant Verified	08 Verified Heating	09 Verified Heating	01 Zone Name	02 Zone Type	03 HVAC System Nam	ne Zone F
Name eat Pump System	Verified Airflow Ai  Not Required		SEER/SEER equired Not Require	2 Charge	HSPF/HSPF2	Cap 47	Cap 17	ADU	Conditioned	HVAC System 1	
1-hers-htpump  AC - DISTRIBUTION	· I							OPAQUE SURFACES 01	02	03	04
01	02	03 04	05 06 0	7 08 09 n Surface Area	10	11	12	Name	Zone	Construction	Azimuth
Name		Design Type Supply	Return Supply Re	urn Supply Retu		Duct Leakage	HERS Verification	FRONT WALL	ADU	Exterior Wall Construction Assembly Exterior Wall Construction	0
Dietrik	No ducts N	lon-Verified R-0.0	R-0.0	n/a n/a	No Bypass Duct	Sealed and Tested	Distribution	REAR WALL	ADU	Assembly  Exterior Wall Construction	
Distribution System 1						<u> </u>	System 1-hers-dist	RIGHT SIDE WALL	ADU	Assembly	180
	01	<b>&gt;</b>	02		03		04	RIGHT SIDE WALL	ADU ADU	Exterior Wall Construction Assembly	180
System 1  AC - FAN SYSTEMS	01 Name VAC Fan System 1		Type HVAC Fan	Fan	03 Power (Watts/CFM) 0.45	HVAC Fan					180
System 1  AC - FAN SYSTEMS  H	Name VAC Fan System 1 HERS VERIFICATION		Type HVAC Fan	Fan	Power (Watts/CFM)		04 Name	LEFT SIDE WALL	ADU	Assembly  Ceiling Construction	180
System 1  AC - FAN SYSTEMS  H'  AC FAN SYSTEMS - I	Name VAC Fan System 1 HERS VERIFICATION 01 Name		Type HVAC Fan  02  Verified Fan Wat	t Draw	Power (Watts/CFM) 0.45	03 red Fan Efficacy (Wat	04 Name System 1-hers-fan	LEFT SIDE WALL Ceiling (below attic) 1  ATTIC	ADU ADU	Assembly  Ceiling Construction Assembly	180 1 270 1 90 n/a
System 1  AC - FAN SYSTEMS  H'  AC FAN SYSTEMS - I	Name VAC Fan System 1 HERS VERIFICATION 01		Type HVAC Fan  02	t Draw	Power (Watts/CFM) 0.45	03	04 Name System 1-hers-fan	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name	ADU ADU  02 Construction Asphalt Shingle Roof	Assembly Ceiling Construction Assembly  03  Type Ventuated	180 270 90 n/a 04 Roof Rise (x
System 1  AC - FAN SYSTEMS  H'  AC FAN SYSTEMS - I	Name VAC Fan System 1 HERS VERIFICATION 01 Name		Type HVAC Fan  02  Verified Fan Wat	t Draw	Power (Watts/CFM) 0.45	03 red Fan Efficacy (Wat	04 Name System 1-hers-fan	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZING  01  02	ADU  ADU  02  Construction  Asphalt Shingle Roof  03	Assembly Ceiling Construction Assembly  03 Type Ventilated	180 270 90 n/a 04 Roof Rise (x 3 3
System 1  /AC - FAN SYSTEMS  H'  /AC FAN SYSTEMS - I	Name VAC Fan System 1 HERS VERIFICATION 01 Name		Type HVAC Fan  02  Verified Fan Wat	t Draw	Power (Watts/CFM) 0.45	03 red Fan Efficacy (Wat	04 Name System 1-hers-fan	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZING	ADU  ADU  O2  Construction  Asphalt Shingle Roof  2  03  Surface	Assembly Ceiling Construction Assembly  03  Type Ventuated	180 270 90 n/a 04 Roof Rise (x i
System 1  AC - FAN SYSTEMS  HY  AC FAN SYSTEMS - I	Name VAC Fan System 1 HERS VERIFICATION 01 Name C Fan System 1-hers-fan		Type HVAC Fan  02  Verified Fan Wat	t Draw d	Power (Watts/CFM)  0.45  Requi	03 red Fan Efficacy (Wat	04 Name System 1-hers-fan	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZING 01  02  Name  Type	ADU  ADU  O2  Construction  Asphalt Shingle Roof  O3  O Surface	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth	180 270 90 n/a 04 Roof Rise (x 3  Width Heig (ft) 5 4
System 1  AC - FAN SYSTEMS  H'  AC FAN SYSTEMS - I  HVA	Name VAC Fan System 1 HERS VERIFICATION 01 Name C Fan System 1-hers-fan		Type HVAC Fan  02 Verified Fan Wat Not Require  Registration (	t Draw d	O.45 Requi	03 red Fan Efficacy (Wati 0	04 Name System 1-hers-fan	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZING 01  02  Name  Typ  Window 1 Wind	ADU  ADU  O2  Construction  Asphalt Shingle Roof  G  O3  De Surface  John Surface  OW FRONT WALL	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth Front 0	180 180 190 190 190 190 190 190 190 190 190 19
System 1  AC - FAN SYSTEMS  H'  AC FAN SYSTEMS - I  HVA	Name VAC Fan System 1 HERS VERIFICATION 01 Name C Fan System 1-hers-fan		Type HVAC Fan  02 Verified Fan Wat Not Require  Registration (	t Draw d  bate/Time: n: 2022.0.000	O.45 Requi	03 red Fan Efficacy (Watt 0	04 Name System 1-hers-fan	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZINI  01  01  Name  Typ  Window 1  Registration Number:	ADU  ADU  O2  Construction  Asphalt Shingle Roof  G  O3  De Surface  John Surface  OW FRONT WALL	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth Front 0	180 180 190 190 190 190 190 190 190 190 190 19
AC - FAN SYSTEMS  HY  AC FAN SYSTEMS - I  HVA  gistration Number: Building Energy Eff	Name VAC Fan System 1 HERS VERIFICATION 01 Name C Fan System 1-hers-fan ficiency Standards - 2022 F		Not Require  Registration I  Report Versic Schema Versi	t Draw d  bate/Time: n: 2022.0.000 pn: rev 20220901	O.45 Requi	03 red Fan Efficacy (Wate 0  RS Provider: port Generated: 2025	04 Name System 1-hers-fan	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZINI  01  01  Name  Typ  Window 1  Registration Number:  CA Building Energy Efficie	ADU  ADU  O2  Construction  Asphalt Shingle Roof  G  O3  De Surface  How FRONT WALL  Sency Standards - 2022 Re	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth Front 0	180 0 90 n/a  Roof Rise (x 3  Width Height (ft) 5 4
AC - FAN SYSTEMS  HY  AC FAN SYSTEMS - I  HVA  HVA  HVA  HVA  HVA  RTIFICATE OF COM  Oject Name: PRE Aculation Descript	Name  VAC Fan System 1  HERS VERIFICATION  01  Name  C Fan System 1-hers-fan  ficiency Standards - 2022 F  WIPLIANCE - RESIDENTIA  APPROVED ADU  ion: PRE-APPROVED AD	desidential Compliance	Type  HVAC Fan  02  Verified Fan Wat  Not Require  Registration I  Report Versic Schema Versi	bate/Time: n: 2022.0.000 on: rev 20220901	Power (Watts/CFM)  0.45  Requi	03 red Fan Efficacy (Water 0  RS Provider: port Generated: 2025	04 Name System 1-hers-fan  Is/CFM)  01-01 10:59:26	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZINI  01  02  Name  Typ  Window 1  Registration Number:  CA Building Energy Efficie  CERTIFICATE OF COMPI	ADU  ADU  O2  Construction  Asphalt Shingle Roof  O3  O9  Surface  Iow  FRONT WALL  PROVED ADU  I: PRE-APPROVED ADU  IN ADU  ADU  ADU  ADU  ADU  ADU  PRE-APPROVED ADU  II PRE-APPROVED ADU  II PRE-APPROVED ADU  II PRE-APPROVED ADU  II PRE-APPROVED ADU	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth Front 0  sidential Compliance	180 180 190 190 190 190 190 190 190 190 190 19
AC - FAN SYSTEMS  HY  AC FAN SYSTEMS - I  HVA  HVA  Building Energy Eff  RTIFICATE OF COM  oject Name: PRE A	Name  VAC Fan System 1  HERS VERIFICATION  01  Name  C Fan System 1-hers-fan  ficiency Standards - 2022 F  WIPLIANCE - RESIDENTIA  APPROVED ADU  ion: PRE-APPROVED AD	desidential Compliance	Type  HVAC Fan  02  Verified Fan Wat  Not Require  Registration I  Report Versic Schema Versi	bate/Time: n: 2022.0.000 on: rev 20220901	Power (Watts/CFM)  0.45  Requi	03 red Fan Efficacy (Water 0  RS Provider: port Generated: 2025	04 Name System 1-hers-fan  Is/CFM)  01-01 10:59:26	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZINI  01  01  Name  Typ  Window 1  Window 1  Registration Number:  CA Building Energy Efficie  CERTIFICATE OF COMP  Project Name: PRE APP  Calculation Description	ADU  ADU  O2  Construction  Asphalt Shingle Roof  O3  O6  Surface  Iow FRONT WALL  PROVED ADU  II: PRE-APPROVED ADU  II: PRE-APPROVED ADU  III	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth Front 0  sidential Compliance	180 180 180 190 190 190 190 190 190 190 190 190 19
AC - FAN SYSTEMS  H'  AC FAN SYSTEMS - I  HVA  HVA  HVA  HVA  HVA  HVA  HVA  HV	Name  VAC Fan System 1  HERS VERIFICATION  01  Name  C Fan System 1-hers-fan  ficiency Standards - 2022 R  MPLIANCE - RESIDENTIA  APPROVED ADU  Jon: PRE-APPROVED AD  (IAQ) FANS  02	desidential Compliance  L PERFORMANCE COMI  U  Gan Efficacy	Registration ( Report Versic Schema Versic S	t Draw d  bate/Time: n: 2022.0.000 on: rev 20220901  ullation Date/Time: 2: tt File Name: PRE APP  06  IAQ Recovery effectiveness	Power (Watts/CFM)  0.45  Requi	03 red Fan Efficacy (Water 0)  RS Provider: port Generated: 2025-	04 Name System 1-hers-fan  1s/CFM)  01-01 10:59:26  CF1R-PRF-01-E (Page 12 of 13)	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZING  01  Window 1  Window 1  Registration Number:  CA Building Energy Efficient  CERTIFICATE OF COMPIPO (Calculation Description)  FENESTRATION / GLAZING  01  01  03  Name  Type	ADU  ADU  O2  Construction  Asphalt Shingle Roof  O3  O6  Surface  Iow FRONT WALL  Ency Standards - 2022 Re  LIANCE - RESIDENTIAL  ROVED ADU  II: PRE-APPROVED ADU  G2  O3  O6  Surface	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth Front 0  sidential Compliance  PERFORMANCE COMPLIA  04 05 Orientation Azimuth	180 180 190 10 190 10 10 10 10 10 10 10 10 10 10 10 10 10
AC - FAN SYSTEMS  H'AC FAN SYSTEMS - I  AC FAN SYSTEMS - I  HVA  Gistration Number:  Building Energy Eff  RTIFICATE OF COMpject Name: PRE Aculation Descript  DOOR AIR QUALITY  01  Dwelling Unit	Name  VAC Fan System 1  HERS VERIFICATION  01  Name  C Fan System 1-hers-fan  Approved Adultion: PRE-Approved Adul	desidential Compliance  LA PERFORMANCE COME  U  03  Can efficacy (W/CFM)  IAQ Fa	Not Require  Registration I Report Versic Schema Versi Schema Versi June 104  05  Includes	t Draw d  bate/Time: n: 2022.0.000 on: rev 20220901  ulation Date/Time: 2 tt File Name: PRE APF  06  IAQ Recovery y Effectiveness	Power (Watts/CFM)  0.45  Requi  HE  Re  025-01-01T10:58:41-0  PROVED ADU 1231202-  107  Includes Fault	03 red Fan Efficacy (Water 0)  RS Provider: port Generated: 2025-	04 Name System 1-hers-fan  1s/CFM)  01-01 10:59:26  CF1R-PRF-01-E (Page 12 of 13)	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZING  01  Registration Number:  CA Building Energy Efficie  CERTIFICATE OF COMPI Project Name: PRE APP Calculation Description  FENESTRATION / GLAZING  01  02	ADU  ADU  O2  Construction  Asphalt Shingle Roof  O3  O9  Surface  How FRONT WALL  PRE-APPROVED ADU  O1  PRE-APPROVED ADU  O2  CONSTRUCTION  O3  O4  O5  O5  O5  O6  O7  O7  O7  O7  O7  O7  O7  O7  O7	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth Front 0  sidential Compliance  PERFORMANCE COMPLI	180 180 190 10 190 10 10 10 10 10 10 10 10 10 10 10 10 10
AC - FAN SYSTEMS  H'  AC FAN SYSTEMS - I  HVA  AC FAN SYSTEMS - I  HVA  HVA  HVA  Collation Number:  Collation Descript  DOOR AIR QUALITY  O1  Dwelling Unit	Name VAC Fan System 1 HERS VERIFICATION 01 Name C Fan System 1-hers-fan  Approved Adultion: PRE-Approved Adultion:	desidential Compliance  LA PERFORMANCE COME  U  03  Can Efficacy (W/CFM)  IAQ Fa	Registration I Report Versic Schema Versi Schema Versi Schema Versi Includes Heat/Energ Recoveryi	bate/Time: n: 2022.0.000 pn: rev 20220901  ulation Date/Time: 2 nt File Name: PRE APP  06  IAQ Recovery Effectiveness - SRE/ASRE	Power (Watts/CFM)  0.45  Requi  HE  Re  025-01-01116:58:41-0  PROVED ADU 1231202-  101 Includes Fault Indicator Display?	03 red Fan Efficacy (Water 0)  RS Provider: cort Generated: 2025- 8:00 L-ribd22  08 HERS Verification	04 Name System 1-hers-fan  1s/CFM)  01-01 10:59:26  CF1R-PRF-01-E (Page 12 of 13)	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name Attic  FENESTRATION / GLAZING 01  Name Typ  Window 1  Window 1  CERTIFICATE OF COMPP Project Name: PRE APP Calculation Description FENESTRATION / GLAZING 01  02  Name Typ  Window 2  Window 3	ADU  ADU  O2  Construction  Asphalt Shingle Roof  O3  O6  Surface  Iow FRONT WALL  ROVED ADU  O7  O7  O8  O8  O9  Surface  O9  O9  O9  O9  O9  O9  O9  O9  O9  O	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth Front 0  sidential Compliance  PERFORMANCE COMPLI  04 05 Orientation Azimuth Front 0  Back 180 Left 90	180 180 180 180 180 180 180 180 180 180
AC - FAN SYSTEMS  H'AC FAN SYSTEMS - I  AC FAN SYSTEMS - I  HVA  Gistration Number:  Building Energy Eff  RTIFICATE OF COMpject Name: PRE Aculation Descript  DOOR AIR QUALITY  01  Dwelling Unit	Name VAC Fan System 1 HERS VERIFICATION 01 Name C Fan System 1-hers-fan  Approved Adultion: PRE-Approved Adultion:	desidential Compliance  LA PERFORMANCE COME  U  03  Can Efficacy (W/CFM)  IAQ Fa	Registration I Report Versic Schema Versi Schema Versi Schema Versi Includes Heat/Energ Recoveryi	bate/Time: n: 2022.0.000 pn: rev 20220901  ulation Date/Time: 2 nt File Name: PRE APP  06  IAQ Recovery Effectiveness - SRE/ASRE	Power (Watts/CFM)  0.45  Requi  HE  Re  025-01-01116:58:41-0  PROVED ADU 1231202-  101 Includes Fault Indicator Display?	03 red Fan Efficacy (Water 0)  RS Provider: cort Generated: 2025- 8:00 L-ribd22  08 HERS Verification	04 Name System 1-hers-fan  1s/CFM)  01-01 10:59:26  CF1R-PRF-01-E (Page 12 of 13)	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZINI  01  Registration Number:  CA Building Energy Efficie  CERTIFICATE OF COMPI Project Name: PRE APP Calculation Description FENESTRATION / GLAZINI  01  01  03  Name  Type Window 2  Window 5  Window 5  Window 5	ADU  ADU  O2  Construction  Asphalt Shingle Roof  O3  O6  Surface  Iow FRONT WALL  ROVED ADU  II: PRE-APPROVED ADU  II: PRE-APPROVED ADU  O6  O8  Surface  O9  O8  O9  O9  O9  O9  O9  O9  O9  O9	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth Front 0  Sidential Compliance  PERFORMANCE COMPLI  04 05 Orientation Azimuth Front 0  Back 180	180 180 190 10 190 10 10 10 10 10 10 10 10 10 10 10 10 10
System 1  AC - FAN SYSTEMS  HYA  AC FAN SYSTEMS - I  HVA  GISTRIFICATE OF COMplet Name: PRE Acculation Descript  DOOR AIR QUALITY  01  Dwelling Unit	Name VAC Fan System 1 HERS VERIFICATION 01 Name C Fan System 1-hers-fan  Approved Adultion: PRE-Approved Adultion:	desidential Compliance  LA PERFORMANCE COMIC  U  03  (W/CFM)  0.35  Exh	Registration ( Report Versis Schema Versi Schema Versi PLIANCE METHOD Calc Input 104 05 Includes Heat/Energ Recoveryi aust No	bate/Time: n: 2022.0.000 pn: rev 20220901  ulation Date/Time: 2 nt File Name: PRE APP  06  IAQ Recovery Effectiveness - SRE/ASRE	Power (Watts/CFM)  0.45  Requi  HE  Re  025-01-01116:58:41-0  PROVED ADU 1231202-  101 Includes Fault Indicator Display?	03 red Fan Efficacy (Water 0)  RS Provider: cort Generated: 2025- 8:00 L-ribd22  08 HERS Verification	04 Name System 1-hers-fan  1s/CFM)  01-01 10:59:26  CF1R-PRF-01-E (Page 12 of 13)	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZINI  01  Registration Number:  CA Building Energy Efficie  CERTIFICATE OF COMPI Project Name: PRE APP Calculation Description  FENESTRATION / GLAZINI  01  02  Name  Type Window 2  Window 2  Window 3  Window 3  Window 4  Window 4  Window 4	ADU  ADU  O2  Construction  Asphalt Shingle Roof  O3  O6  Surface  Iow FRONT WALL  CONTROL  OB  OB  OB  OB  OB  OB  OB  OB  OB	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth Front 0  sidential Compliance  PERFORMANCE COMPLI  04 05 Orientation Azimuth Front 0  Back 180 Left 90	180   180
System 1  AC - FAN SYSTEMS  HYA  AC FAN SYSTEMS - I  HVA  GISTRIFICATE OF COMplet Name: PRE Acculation Descript  DOOR AIR QUALITY  01  Dwelling Unit	Name VAC Fan System 1 HERS VERIFICATION 01 Name C Fan System 1-hers-fan  Approved Adultion: PRE-Approved Adultion:	desidential Compliance  LA PERFORMANCE COMIC  U  03  (W/CFM)  0.35  Exh	Registration ( Report Versis Schema Versi Schema Versi PLIANCE METHOD Calc Input 104 05 Includes Heat/Energ Recoveryi aust No	bate/Time: n: 2022.0.000 pn: rev 20220901  ulation Date/Time: 2 nt File Name: PRE APP  06  IAQ Recovery Effectiveness - SRE/ASRE	Power (Watts/CFM)  0.45  Requi  HE  Re  025-01-01116:58:41-0  PROVED ADU 1231202-  101 Includes Fault Indicator Display?	03 red Fan Efficacy (Water 0)  RS Provider: cort Generated: 2025- 8:00 L-ribd22  08 HERS Verification	04 Name System 1-hers-fan  1s/CFM)  01-01 10:59:26  CF1R-PRF-01-E (Page 12 of 13)	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name Attic  FENESTRATION / GLAZING  01  Registration Number:  CA Building Energy Efficie  CERTIFICATE OF COMPIPO Project Name: PRE APPICAL CUlation Description  FENESTRATION / GLAZING  01  02  Name Type Window 2  Window 2  Window 3  Window 3  Window 4  Window 4  OPAQUE DOORS  01	ADU  ADU  ADU  O2  Construction  Asphalt Shingle Roof  O3  O6  Surface  Iow FRONT WALL  CONTROL OF THE STORY OF THE STORY  O3  O6  CONTROL OF THE STORY  O7  O7  O7  O7  O7  O7  O7  O7  O7  O	Assembly Ceiling Construction Assembly  03 Type Ventilated  04 05 Orientation Azimuth Front 0  sidential Compliance  PERFORMANCE COMPLI  04 05 Orientation Azimuth Front 0 Back 180 Left 90 Left 90	180   180
AC - FAN SYSTEMS  HY  AC FAN SYSTEMS - I  HYA  PEGISTRATION Number: A Building Energy Eff  RTIFICATE OF COM Digect Name: PRE A  Iculation Descript  DOOR AIR QUALITY  01  Dwelling Unit	Name VAC Fan System 1 HERS VERIFICATION 01 Name C Fan System 1-hers-fan  Approved Adultion: PRE-Approved Adultion:	desidential Compliance  LA PERFORMANCE COMIC  U  03  (W/CFM)  0.35  Exh	Registration ( Report Versis Schema Versi Schema Versi PLIANCE METHOD Calc Input 104 05 Includes Heat/Energ Recoveryi aust No	bate/Time: n: 2022.0.000 pn: rev 20220901  ulation Date/Time: 2 nt File Name: PRE APP  06  IAQ Recovery Effectiveness - SRE/ASRE	Power (Watts/CFM)  0.45  Requi  HE  Re  025-01-01116:58:41-0  PROVED ADU 1231202-  101 Includes Fault Indicator Display?	03 red Fan Efficacy (Water 0)  RS Provider: cort Generated: 2025- 8:00 L-ribd22  08 HERS Verification	04 Name System 1-hers-fan  1s/CFM)  01-01 10:59:26  CF1R-PRF-01-E (Page 12 of 13)	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name  Attic  FENESTRATION / GLAZINI  01  Registration Number:  CA Building Energy Efficie  CERTIFICATE OF COMP! Project Name: PRE APP Calculation Description  FENESTRATION / GLAZINI  01  02  Name  Type Window 2  Window 2  Window 5  Window 3  Window 4  Window 4  Window 4  OPAQUE DOORS  01  Name	ADU  ADU  O2  Construction  Asphalt Shingle Roof  O3  O9  Surface  Iow FRONT WALL  O1  CONTROL  O2  CONTROL  O3  O4  CONTROL  O4  O5  O5  O6  O7  O7  O7  O7  O7  O7  O7  O7  O7	Assembly  Ceiling Construction Assembly  03  Type  Ventilated  04  05  Orientation Azimuth  Front 0  sidential Compliance  PERFORMANCE COMPLI  04  05  Orientation Azimuth  Front 0  Back 180  Left 90  Left 90  Side of Build	180   180
System 1  IVAC - FAN SYSTEMS - I  IVAC FAN SYSTEMS - I  HVA  Registration Number: CA Building Energy Eff  ERTIFICATE OF COM roject Name: PRE A alculation Descript	Name VAC Fan System 1 HERS VERIFICATION 01 Name C Fan System 1-hers-fan  Approved Adultion: PRE-Approved Adultion:	desidential Compliance  LA PERFORMANCE COMIC  U  03  (W/CFM)  0.35  Exh	Registration I Report Versic Schema Versi Schema Versi Schema Versi Includes Heat/Energ Recoveryi	bate/Time: n: 2022.0.000 pn: rev 20220901  ulation Date/Time: 2 nt File Name: PRE APP  06  IAQ Recovery Effectiveness - SRE/ASRE	Power (Watts/CFM)  0.45  Requi  HE  Re  025-01-01116:58:41-0  PROVED ADU 1231202-  101 Includes Fault Indicator Display?	03 red Fan Efficacy (Water 0)  RS Provider: cort Generated: 2025- 8:00 L-ribd22  08 HERS Verification	04 Name System 1-hers-fan  1s/CFM)  01-01 10:59:26  CF1R-PRF-01-E (Page 12 of 13)	LEFT SIDE WALL  Ceiling (below attic) 1  ATTIC  01  Name Attic  FENESTRATION / GLAZINI  01  Registration Number:  CA Building Energy Efficie  CERTIFICATE OF COMPI Project Name: PRE APP Calculation Description FENESTRATION / GLAZINI  01  03  Name Tyj  Window 2  Window 2  Window 3  Window 4  Window 4  Window 4  OPAQUE DOORS  01  Nam  MAIN D  OVERHANGS AND FINS	ADU  ADU  O2  Construction Asphalt Shingle Roof  O3  O6  Surface ON  FRONT WALL  CONTINUAL  CONTINU	Assembly  Ceiling Construction Assembly  03  Type  Ventilated  04  05  Orientation Azimuth  Front  0  Orientation Azimuth  Front  0  Left  90  Left  90  Column Side of Build  FRONT WAR	04   04   Roof Rise (x   3   3   3   4   4   3   1   1   1   1   1   1   1   1   1

Report Version: 2022.0.000 Schema Version: rev 20220901

CA Building Energy Efficiency Standards - 2022 Residential Compliance

		ENERGY USE INTE	VICITY														
		ENERGY USE INTE	N311 T	Standa	ard Design (kBt	u/ft² - yr )	Propo	sed Desig	n (kBtu/f	t <sup>2</sup> - yr )	Ma	rgin (kBtu/fi	2 - yr )		М	argin Perce	entage
		North Facing		<u>'</u>							4						
$\exists$		Gros	s EUI <sup>1</sup>		21.78			21.	16			0.62				2.85	
			EUI <sup>2</sup>		7.67			6.8	32	<del>, ()</del>		0.85				11.08	
-1-1		East Facing	s EUI <sup>1</sup>	1	21.78			21	.3 4			0.48				2.2	
gle)			EUI <sup>2</sup>		7.67				16			0.71				9.26	
_		South Facing															
ıl.		Gros	s EUI <sup>1</sup>		21.78		4	21.	15			0.63				2.89	
		Net	EUI <sup>2</sup>		7.67		6	6.8	31			0.86			<	11.21	
		West Facing				(1											
			s EUI <sup>1</sup>		21.78			21				0.48				2.2	
		Notes	EUI <sup>2</sup>		7.67			6.9	<del></del>			0.71			-	9.26	
-		1. Gross EUI is I		otal (not including al (including PV) /													
ater #)																	<u> </u>
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i		CA Building Energ	y Efficiency	Standards - 2022 R	esidential Comp	oliance				022.0.000 rev 20220			Re	port Gen	erated: 2	025-01-01	10:59:26
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-01-E of 13)		CERTIFICATE OF Project Name: P			L PERFORMAI	NCE COMPLIA	ANCE ME		Calcula	tion Date	/Time: 202	5-01-01(10	:58:41-0	8:00			CF1R-PRF-01-E (Page 6 of 13)
		Calculation Desc	<u> </u>	E-APPROVED AD	U				Input Fi	ile Name	: PRE APPRO	OVED ADU :	231202	4.ribd22			
		REQUIRED PV SYS	TEMS 0		03	04		05		06	07	08	09		10	11	12
ource		DC System Size					+				Azimuth	1 +	U9 Array Ang	+	-	11 Inverter Ef	Annual
		(kWdc)	Excep	tion M	odule Type	Array Typ	e P	ower Elect	tronics	CFI	(deg)	Input	(deg)		: (x in 12)	(%)	Solar Access (%)
		1.94	N.	A Stand	lard (14-17%)	Fixed		Microinve	rters	true	150-270	n/a	n/a	<=	7:12	96	98
		REQUIRED SPECIA							£_	9		L'					
r Heat		PV System:	1.94 kWdc		as condition for	meeting the r	nodeled e	energy per	iormano	or this α	omputer ana	iysis.					
		PV power e     Insulation b     Window over	elow roof de					0.0									
				ency Alliance (NEE	A) rated heat pu	mp water hea	ter; specif	fic brand/r	nodel, or	equivaler	nt, must be in	stalled					
d	4	The following is a:		the features that n	nust be field-ver	rified by a cert	ified HER	Rater as	a conditio	on for mee	eting the mod	leled energy	performa	ince for th	his comp	uter analys	is. Additional
Туре		detail is provided i	n the buildi	ng tables below. Re								,					
k		Indoor air q     Kitchen range	uality ventil ge hood	ation		Č											
			it pump rate	d heating capacity													
		Pipe Insulat			- An												
				IAHON	65												
on		BUILDING - FEATU	RES INFORM	02		03			04		05			06			07
					- 2	03 Number of D Units		Numbe	04 r of Bedr	rooms	05 Number of	Zones		06 r of Venti ling Syste			07 ber of Water ing Systems
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emp p 266 RF-01-E of 13) cating y 266 RF-01-E 66		Registration Num CA Building Energy CERTIFICATE OF Project Name: P Calculation Desc ZONE INFORMATI  O1 Zone Name ADU  OPAQUE SURFACE O1 Name FRONT WALL RIGHT SIDE WAL LEFT SIDE WAL Ceiling (below att) ATTIC O1 Name Attic  FENESTRATION / O O1 Name Window 1  Registration Num CA Building Energy CERTIFICATE OF	ber: COMPLIAN RE APPROV ription: PR ON  E S S S S S S S S S S S S S S S S S S	CE - RESIDENTIA  O2  Zone Type  Conditioned  O2  Zone Type  Conditioned  O2  Zone  ADU  ADU  ADU  ADU  ADU  ADU  ADU  AD	esidential Comp  L PERFORMAN  HVA  Const: Exterior Wall Asse Exterior Wall Asse Exterior Wall Asse  Celling Co Asse  Orientation Front	Number of E Units  1  03  C System Nam /AC System 1  Construction embly Construction embl	Roof R  O6  Width (ft) 5	Registrat Report V Schema  THOD  O4  Zone Floor  80  04  zimuth  0  180  07  Height (ft) 4  Registrat Report V Schema	2  Calculation Date  Calculation:  Calculati	/Time: 022.0.000 rev 20220  tion Date ile Name  le Name  Pront Back Right Left n/a  05 Reflectan 0.1  09 Area (ft²) 20  /Time: 022.0.000 rev 20220	Number of  1  901  901  PRE APPRO  OS  Avg. Ceiting to the second of the	06 ss Area (ft²) 248 224 800  06 f Emittance 0.85	### Coo  HE Re  1:58:41-0  DHW  W  W  The Shall and The Sh	RS Providence of the second of	der: erated: 2 stem 1 1 and Door ft2) Sarrier  SHGC S NFF	025-01-01	ber of Water ing Systems  1  10:59:26  CF1R-PRF-01-E (Page 7 of 13)  07  Status  New  08  Tilt (deg)  90  90  90  n/a  08  cool Roof  No  14  exterior Shading  Bug Screen  10:59:26
F-01-E of 13) ating fan		Registration Num CA Building Energy CERTIFICATE OF Project Name: P Calculation Desc ZONE INFORMATI  2 On Name ADU  OPAQUE SURFACE 01 Name FRONT WALL RIGHT SIDE WAL LEFT SIDE WAL Ceilling (below att ATTIC 01 Name Attic FENESTRATION / 0 1 Name Window 1  Registration Num CA Building Energy CERTIFICATE OF Project Name: P Calculation Desc	ber: COMPLIAN RE APPROV ription: PR S S LLL L L Sic) 1 SLAZING 02 Type Window ber: RE APPROV ription: PR COMPLIAN RE APPROV ription: PR COMPLIAN RE APPROV ription: PR	CE - RESIDENTIA  CONDITION  CONTINUE  CONTINUE  CONTINUE  CONTINUE  CONSTRUCTION  CONS	esidential Comp  L PERFORMAN  HVA  Const: Exterior Wall Asse Exterior Wall Asse Exterior Wall Asse  Exterior Wall Asse  Ceiling Co Asse  Orientation Front	Number of E Units  1  03  C System Nam /AC System 1  Construction embly Construction embl	Roof R  O6  Width (ft) 5	Registrat Report V Schema  ETHOD  O4  Zone Floor  80  04  zimuth  0  180  07  Height (ft) 4  Registrat Report V Schema	2  Calculation Date  Area (ft'  Roof  Roof  Roof  Calculation Date	/Time: 022.0.000 rev 20220  tion Date ile Name  2) 05 cientation Front Back Right Left n/a  05 Reflectan 0.1  09 Area (ft²) 20  /Time: 022.0.000 rev 20220	Number of  1  901  901  PRE APPRO  OS  Avg. Celling I  8  Gross  U-factor  0.3	5-01-01116  OVED ADU :  leight  06  is Area (ft²)  248  224  800  06  f Emittance 0.85  11  U-factor Source NFRC	### Coo  HE Re  S58:41-0  DHW  W  T1  SH  O.  HE Re	RS Providence of the second of	der: stem 1 1 and Door ft2)  Sarrier  SHGC S NFF der: serated: 2	025-01-01  C C C C C C C C C C C C C C C C C C C	ber of Water ing Systems  1  10:59:26  CF1R-PRF-01-E (Page 7 of 13)  07  Status  New  08  Tilt (deg)  90  90  90  n/a  08  cool Roof  No  14  exterior Shading  Bug Screen
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em p 6 6 8F-01-E of 13) ating fan		Registration Num CA Building Energy  CERTIFICATE OF Project Name: P Calculation Desc  ZONE INFORMATI  JO1  Zone Name ADU  OPAQUE SURFACE 01  Name FRONT WALL  RIGHT SIDE WALL  LEFT SIDE WALL  Ceiling (below att  ATTIC 01  Name Attic  FENESTRATION / O  Name  Window 1  Registration Num CA Building Energy  CERTIFICATE OF Project Name: P Calculation Desc FENESTRATION / O  O1  Registration Num CA Building Energy	ber:  COMPLIAN RE APPROV  ription: PR  S  GLAZING 02  Type  Window ber:  LY Efficiency	CE - RESIDENTIA ED ADU	esidential Comp  L PERFORMAN  HVA  HVA  Const:  Exterior Wall Asse Exterior Wall Asse Exterior Wall Asse Ceiling Co Asse  Orientation Front  L PERFORMAN  U  04	Number of E Units  1  03  C System Nam  (AC System 1  1 Construction embly 1 Construction embly 2 Construction embly 3 Construction embly 4 Construction embly 5 Construction embly 6 Construction embly 7 Construction embly 8 Construction embly 9 Construction embly 1 Construction embly 2 Construction embly 3 Construction embly 4 Construction embly 5 Construction embly 6 Construction embly 6 Construction embly 7 Construction embly 8 Construction embly 9 Construction emb	ANCE ME  e z  Az  Roof R  O6  Width (ft)  5	Registrat Report V Schema  O4  Zone Floor 80  04  zimuth 0  180  90  n/a  04  ise (x in 12  3  O7  Height (ft) 4  Registrat Report V Schema	cr of Bedre 2  2  Calculate Input Final Area (ft 100)  Roof Os Mult.  Calculate Input Final Area (ft 100)  Calculate Input	/Time: 022.0.000 rev 20220  tion Date ile Name  2) Front Back Right Left n/a  05 Reflectan 0.1  09 Area (ft²) 20  /Time: 022.0.000 rev 20220  tion Date ile Name	Number of  1  901  PRE APPRO  Gross  Gross  10  U-factor  0.3  901  10  U-factor  10  U-factor	06 ss Area (ft²) 248 248 224 800 06 f Emittance 0.85  11 U-factor Source NFRC	### Coo  HE Re  S58:41-0  DHW  W  SH  1  SH  C58:41-0  L2312024  1  SH  SH	RS Provided Service of Ventiling System of Ven	der: lerated: 2  stem 1  nd Door ft2)  Sarrier  13  SHGC S  NFF  der: lerated: 2	025-01-01  C C C C C C C C C C C C C C C C C C C	ber of Water ing Systems  1  10:59:26  CF1R-PRF-01-E (Page 7 of 13)  07  Status  New  08  Filt (deg)  90  90  90  90  10-4  Cool Roof  No  14  Exterior Shading  Bug Screen  10:59:26  CF1R-PRF-01-E (Page 8 of 13)
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tem pp 226  RF-01-E 1 of 13)  cation		Registration Num CA Building Energy CERTIFICATE OF Project Name: P Calculation Desc ZONE INFORMATI  O1 Zone Name ADU  OPAQUE SURFACE O1 Name FRONT WALL RIGHT SIDE WALL RIGHT SIDE WALL Ceiling (below att  ATTIC O1 Name Attic  FENESTRATION / O O1 Name CA Building Energy  CERTIFICATE OF Project Name: P Calculation Desc FENESTRATION / O O1 Name Window 1	ber:  COMPLIAN RE APPROV  ription: PR  ON  E  S  GLAZING 02  Type  Window  COMPLIAN RE APPROV  Type  Window  Window  Window	CE - RESIDENTIA ED ADU	esidential Comp  L PERFORMAN  HVA  Const: Exterior Wall Asse Exterior Wall Asse Exterior Wall Const: Ceiling Co Asse  Ceiling Co Asse  L PERFORMAN  Orientation Front  O4  Orientation Front  Back	Number of E Units  1  Oliance  NCE COMPLIA  03 C System Nam  VAC System 1  Construction embly I Construction embly I Construction embly I Construction embly I Construction embly Onstruction em	ANCE ME  A  A  A  A  A  A  A  A  A  A  A  A  A	Registrat Report V Schema  ETHOD  O4  zimuth  0  180  90  n/a  O4  ise (x in 12  3  O7  Height (ft)  4  Registrat  Report V Schema  ETHOD	r of Bedr 2  Calculate Input Fi Area (ft' Roof	/Time: 022.0.000 rev 20220  tion Date ile Name  Pront Back Right Left n/a  05 Reflectan 0.1  09 Area (ft²) 20  /Time: 022.0.000 rev 20220  tion Date ile Name	Number of  1  901  901  PRE APPRO  OS  Avg. Ceiling I  8  Gros  10  U-factor  0.3  901  U-factor  0.3	06 ss Area (ft²) 248 248 224 224 800  06 f Emittance 0.85  11 U-factor Source NFRC	HE   Re   SSE:41-0   COO   C	RS Provided Service Se	der: lerated: 2  stem 1  land Door ft2)  SHGC S  NFF  der: lerated: 2	025-01-01  ()  ()  ()  ()  ()  ()  ()  ()  ()  (	ber of Water ing Systems  1  10:59:26  CF1R-PRF-01-E (Page 7 of 13)  07  Status  New  08  Filt (deg)  90  90  90  90  14  Atterior Shading  Bug Screen  10:59:26  CF1R-PRF-01-E (Page 8 of 13)  14  Atterior Shading  Bug Screen
em p p location ion rs-dist location ion rs-dist location		Registration Num CA Building Energy  CERTIFICATE OF Project Name: P Calculation Desc  ZONE INFORMATI  O1  Zone Name  FRONT WALL  RIGHT SIDE WALL  REAR WALL  RIGHT SIDE WALL  Ceilling (below att  ATTIC  O1  Name  Attic  FENESTRATION / O  O1  Name  Window 1  Registration Num  CA Building Energy  CERTIFICATE OF Project Name: P Calculation Desc FENESTRATION / O  Name  Window 1	ber: COMPLIAN RE APPROV ription: PR ON  E  S  SIAZING 02  Type  Window ber: ry Efficiency  COMPLIAN RE APPROV Type  Window Window Window	CE - RESIDENTIA ED ADU	esidential Comp  L PERFORMAN  HVA  HVA  Const: Exterior Wall Asse Exterior Wall Asse Exterior Wall Asse Exterior Wall Const: Ty Vent  U  Orientation Front  Back Left	Number of E Units  1  O3  C System Nam  /AC System 1  Construction embly Construction emb	ANCE ME  e	Registrat Report V Schema  ETHOD  O4  zimuth  O 180  04  zimuth  O 180  O7  Height (ft)  4  Report V Schema	r of Bedr 2  Calculation Date Fersion: 2  Calculation Date  Area (ft'  Roof  OR  Mult.  1  1  1	/Time: 022.0.000 rev 20220  tion Date ile Name  2) 105 identation Front Back Right Left n/a  05 Reflectan 0.1  09 Area (ft²) 20  /Time: 022.0.000 rev 20220  tion Date ile Name	Number of  1  901  901  901  901  901  905  Avg. Ceiling 1  8  Gross  10  U-factor  0.3  0.3  0.3	06 ss Area (ft²) 248 248 224 224 800 06 f Emittance 0.85  11 U-factor Source NFRC NFRC	HE   Re   SE   SE   SE   SE   SE   SE   SE   S	RS Provided Service of Ventiling System of Ven	der: lerated: 2  stem 1  and Door ft2)  SHGC S  NFF  der: lerated: 2	025-01-01  C	ber of Water ing Systems  1  10:59:26  CF1R-PRF-01-E (Page 7 of 13)  07  Status  New  08  Tilt (deg)  90  90  90  90  10-3  Cool Roof  No  14  Exterior Shading  Bug Screen  10:59:26  CF1R-PRF-01-E (Page 8 of 13)  14  Exterior Shading  Bug Screen  Bug Screen  Bug Screen  Bug Screen
cation ca		Registration Num CA Building Energy CERTIFICATE OF Project Name: P Calculation Desc ZONE INFORMATI  01 Zone Name ADU  OPAQUE SURFACE 01 Name FRONT WALL RIGHT SIDE WAL LEFT SIDE WAL Ceiling (below att) ATTIC 01 Name Attic  FENESTRATION / 0 01 Name Window 1  Registration Num CA Building Energy CERTIFICATE OF Project Name: P Calculation Desc FENESTRATION / 0 01 Name Window 2 Window 5 Window 5 Window 3	ber:  COMPLIAN RE APPROV.  ription: PR  S  LL  L  L  GLAZING  02  Type  Window  Window  Window  Window  Window  Window	CE - RESIDENTIA ED ADU	esidential Comp  L PERFORMAN  HVA  HVA  Const: Exterior Wall Asse Exterior Wall Asse Exterior Wall Asse Exterior Wall Const: Ty Vent  U  Orientation Front  Back Left	Number of E Units  1  O3  C System Nam VAC System 1  Construction embly Construction embl	ANCE ME  A  Roof R  O6  Width (ft)  4  3  4	Registrat Report V Schema  ETHOD  O4  zimuth  O 180  90  n/a  04  ise (x in 12  3  O7  Height (ft)  4  Report V Schema	r of Bedr 2  Calculation Date rersion: 2  Calculation Date rersion: 2  Calculation Date Residue	/Time: 022.0.000 rev 20220  tion Date ile Name    Part	POOL STATE APPROVED TO STATE A	5-01-01116 DVED ADU :  1eight  06 SS Area (ft²) 248 224 800  06 F Emittance 0.85  11 U-factor Source NFRC NFRC NFRC	HE   Re   SE   SE   SE   SE   SE   SE   SE   S	RS Provided port General RS Provided Pr	der: stem 1 1 and Door ft2)  Barrier  13 SHGC S NFF NFF NFF	025-01-01  C	total Systems  1  10:59:26  CF1R-PRF-01-E (Page 7 of 13)  07  Status  New  08  Tilt (deg)  90  90  90  10-59:26  CF1R-PRF-01-E (Page 8 of 13)  14  exterior Shading  Bug Screen  10:59:26

04 05 06 07 08

Heated

Carpeted Fraction

Report Generated: 2025-01-01 10:59:26

Perimeter (ft)

Edge Insul. R-value and Depth

Edge Insul. R-value and Depth

none

Report Version: 2022.0.000 Schema Version: rev 20220901

118

Name

Slab On Grade 1

Report Generated: 2025-01-01 10:59:26

Zone

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Area (ft²)

		ERFORMANCE COMPLIANCE METHOD	6-11	ation Date/Time: 2025-01-01110:58:41-0	CF1R-PRF-01-E
•	ne: PRE APPROVED ADU			,	, ,
Laiculation	Description: PRE-APPROVED ADU		Input	File Name: PRE APPROVED ADU 1231202	4.ribd22
GENERAL IN	FORMATION			4.69	
01	Project Name	PRE APPROVED ADU		65	
02	Run Title	PRE-APPROVED ADU		<u></u>	
03	Project Location	6615 PASSONS BLVD.		N	
04	City	PICO RIVERA, CA	05	Standards Version	2022
06	Zip code	90660	07	Software Version	CBECC-Res 2022.3.1
08	Climate Zone	9	09	Front Orientation (deg/ Cardinal)	All orientations
10	Building Type	Single family	11	Number of Dwelling Units	1
12	Project Scope	Newly Constructed	13	Number of Bedrooms	2
14	Addition Cond. Floor Area (ft <sup>2</sup> )	0	15	Number of Stories	1
16	Existing Cond. Floor Area (ft <sup>2</sup> )	n/a	17	Fenestration Average U-factor	0.3
18	Total Cond. Floor Area (ft <sup>2</sup> )	800	19	Glazing Percentage (%)	8.19%
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a
22	Fuel Type	All electric	23	No Dwelling Unit:	No
COMPLIANCE					
	Building Complies with Computer	Post Community (Inc.)			
01				antified UEDS rates and or the amountains of a	CCC analysis d UCDC avaidas
O2 This building incorporates features that require field testing and/or verificat O3 This building incorporates one or more Special Features shown below				ertined HERS rater under the supervision or a	CEC-approved HERS provider.
	mis summing mean portices on each				

CF1R-PRF-01-E

(Page 5 of 13)

Calculation Date/Time: 2025-01-01110:58:41-08:00

Input File Name: PRE APPROVED ADU 12312024.ribd22

CERTIFICATE OF COMPLIANCE - RESIDEN Project Name: PRE APPROVED ADU Calculation Description: PRE-APPROVED	Calculation Date/Time: 2025-01-01110:58:41-08:00 Input File Name: PRE APPROVED ADU 12312024.ribd22			CF1R-PRF-01-E (Page 2 of 13)		
ENERGY DESIGN RATINGS				- <u>-                                  </u>		
		Energy Design Ratings			Compliance Margins	
	Source Energy (EDR1)	Efficiency <sup>1</sup> EDR (EDR2efficiency)	Total <sup>2</sup> EDR (EDR2total)	Source Energy (EDR1)	Efficiency <sup>1</sup> EDR (EDR2efficiency)	Total <sup>2</sup> EDR (EDR2total)
Standard Design	32.8	39.3	34.4			
	•	Propose	d Design			
North Facing	31.6	37.2	33	1.2	2.1	1.4
East Facing	31.5	37.9	33.4	1.3	1.4	1
South Facing	31.5	37.8	33.3	1.3	1.5	1.1
West Facing	31.9	39.1	34	0.9	0.2	0.4
	•	RESULT	3: PASS			
Efficiency EDR includes improvements like a     Total EDR includes efficiency and demand re     Building compiles when source energy, effic     Standard Design PV Capacity: 1.94 kW	sponse measures such as plency and total compliance	hotovoltaic (PV) system a	and batteries	net load hour limits are	not exceeded	

Report Version: 2022.0.000 Schema Version: rev 20220901

Report Generated: 2025-01-01 10:59:26

HERS Provider:

Report Generated: 2025-01-01 10:59:26

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CA Building Energy Efficiency Standards - 2022 Residential Compliance

•	roject Name: PRE APPROVED ADU			2025-01-01710:58:41-08:00	la a	(Page 3 of 13
·	n: PRE-APPROVED ADU		Input File Name: PRE A	PPROVED ADU 12312024.ribo	122	
NERGY USE SUMMARY Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0.32	1.54	0.29	2.13	0.03	-0.59
Space Cooling	1.23	26.84	1.31	28.37	-0.08	-1.53
IAQ Ventilation	0.45	4.7	0.45	4.7	0	0
Water Heating	2.34	24.87	1.84	19.63	0.5	5.24
Self Utilization/Flexibility Credit			0	0	0	0
North Facing Efficiency Compliance Total	4.34	57.95	3.89	54.83	0.45	3.12
Space Heating	0.32	1.54	0.23	1.6	0.09	-0.06
Space Cooling	1.23	26.84	1.37	30.04	-0.14	-3.2
IAQ Ventilation	0.45	4.7	0.45	4.7	0	0
Water Heating	2.34	24.87	1.83	19.6	0.51	5.27
Self Utilization/Flexibility Credit			0	0	0	0
East Facing Efficiency	4.34	57.95	3.88	55.94	0.46	2.01

Report Version: 2022.0.000 Schema Version: rev 20220901

Registration Number:	Registration Date/Time:	HERS Provider:
CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2025-01-01 10:59:26

	INVALUE COM ENTIRE MET		2025 04 04 54 50 44 22 22		CF1R-PRF-01- (Page 4 of 1	
Project Name: PRE APPROVED ADU						
1: PRE-APPROVED ADU		Input File Name: PRE A	PPROVED ADU 12312024.ribd	22		
Standard Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2	
0.32	1.54	0.22	1.56	0.1	-0.02	
1.23	26.84	1.35	29.92	-0.12	-3.08	
0.45	4.7	0.45	4.7	0	0	
2.34	24.87	1:83	19.59	0.51	5.28	
		0	0	0	0	
4.34	57.95	3.85	55.77	0.49	2.18	
0.32	1.54	0.31	2.29	0.01	-0.75	
1.23	26.84	1.41	31.05	-0.18	-4.21	
0.45	4.7	0.45	4.7	0	0	
2.34	24,87	1.84	19.63	0.5	5.24	
		0	0	0	0	
4.34	57.95	4.01	57.67	0.33	0.28	
	### PRE-APPROVED ADU    Standard Design Source	Standard Design Source   Energy (EDR1) (kBtu/ft²-yr)	Calculation Date/Time   Input File Name: PRE A	Calculation Date/Time: 2025-01-01 10:58:41-08:00     Input File Name: PRE APPROVED ADU   12312024.ribdic     Standard Design Source   Energy (EDR1) (kBtu/ft²-yr)   Standard Design TDV Energy (EDR2) (kTDV/ft²-yr)   Proposed Design Source   Energy (EDR1) (kBtu/ft²-yr)   (EDR2) (kTDV/ft²-yr)     0.32	Standard Design Source   Energy (EDR1) (kBtu/ft²-yr)   Standard Design TDV Energy (EDR2) (kTDV/ft²-yr)   Proposed Design Source   Energy (EDR1) (kBtu/ft²-yr)   (EDR2) (kTDV/ft²-yr)   Proposed Design Source   Energy (EDR1) (kBtu/ft²-yr)   (EDR2) (kTDV/ft²-yr)   Margin (EDR1) (EDR2) (kTDV/ft²-yr)   Margin (ED	

Report Generated: 2025-01-01 10:59:26

Report Version: 2022.0.000 Schema Version: rev 20220901

SHEET DESCRIPTION

SAMPLE **ENERGY REPORT** 

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT, OWNERS AGREE TO RELEASE, HOLD HARMLESS AND IDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS

CONSTRUCTION DOCUMENTS.

THIS PROJECT.

SHEET NO.

T24-2

ADU : - APPROVED , VERA, CA PRE CO-RIV RIVERA PICO

CITY OF PICO RIVERA COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

6615 PASSONS BLVD. PICO RIVERA, CA 90660 PHONE: (562) 801-4332

DATE: 1 / 1 / 2025

ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON

- 1.1. PIPES UP TO 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN DIAMETER OF
  - PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE
- INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION. (2022 CPC 609.12.2) HOT WATER PIPING RETWEEN THE FIXTURE CONTROL VALVE OR SUPPLY STOP AND THE FIXTURE
- PROVIDE A TEMPERATURE AND PRESSURE RELIEF VALVE WITH A FULL SIZE DRAIN OF GALVANIZED STEEL OR HARD DRAWN COPPER TO THE OUTSIDE OF THE BUILDING WITH THE END OF THE PIPE PROTRUDING 6" MINIMUM @ 2' MAX. ABOVE GRADE POINTING DOWNWARD TO THE TERMINATION -
- WATER PIPING, SOLAR WATER-HEATING SYSTEM PIPING, AND SPACE CONDITIONING SYSTEM LINE
- PIPING SURROUNDED WITH A MINIMUM OF 1 INCH OF WALL INSULATION 2 INCHES OF CRAWLSPACE INSULATION, OR 4 INCHES OF ATTIC INSULATION SHALL NOT BE REQUIRED TO
- OUTDOOR SERVICE. THE COVER SHALL BE WATER RETARDANT AND PROVIDES SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL
- LOCATED OUTSIDE THE CONDITIONED SPACE SHALL INCLUDE, OR BE PROTECTED BY, A CLASS I 1.3. PIPE INSULATION BURIED BELOW GRADE MUST BE INSTALLED IN A WATER PROOF AND

NOT FEWER THAN ONE-LAYER WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR HEATHING ( ALL EXTERIOR WALLS CONTINUOUS FROM TOP OF WALS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES WITH FLASHING. MINIMUM NO. 15 FELT COMPLYING WITH ASTM D226, TYPE 1

### GENERAL NOTES

- THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES-WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.
- AN APPROVED SEISMIC GAS SHUT OFF VALVE OR EXCESS FLOW SHUT OFF VALVE WILL BE INSTALLED ON THE FLIELLINE ON THE DOWN-STREAM SIDE OF THE LITHLITY METER AND BE RIGIDLY CONNECTED. TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING. (PER ORDINANCE 170, 158, AND 180, 670) (INCLUDES COMMERCIAL ADDITIONS AND TI WORK OVER \$10,000.) SEPARATE PLUMBING PERMIT IS REQUIRED.
- PROVIDE ULTRA-FLUSH WATER CLOSETS FOR ALL NEW CONSTRUCTION. EXISTING SHOWER HEADS AND TOILETS MUST BE ADAPTED FOR LOW WATER CONSUMPTION.
- PROVIDE (72) INCH HIGH NON ABSORBENT WALL ADJACENT TO SHOWER AND APPROVED SHATTER RESISTANT MATERIALS FOR SHOWER ENCLOSURE. (1210.2.3, 2406.4.5, R307.2, R308.4)
- WATER HEATER MUST BE STRAPPED TO WALL. (SEC. 507.3 & LAPC)

6. CARBON MONOXIDE ALARM IS REQUIRED PER (SEC. 420.6, R315)

- PLUMBING FIXTURES ARE REQUIRED TO BE CONNECTED TO A SANITARY SEWER OR TO AN APPROVED SEWAGE DISPOSAL SYSTEM. (R306.3)
- KITCHEN SINKS, LAVATORIES, BATHTUBS, SHOWERS, BIDETS, LAUNDRY TUBS AND WASHING MACHINE OUTLETS SHALL BE PROVIDED WITH HOT AND COLD WATER AND CONNECTED TO AN APPROVED
- WALL COVERINGS IN SHOWERS AND TUBS WITH SHOWERHEADS SHALL BE CEMENT PLASTER, TILE, OR EQUAL TO 6-FEET (72") ABOVE DRAIN, ENCLOSURES MUST BE OF APPROVED SAFETY GLAZING AND DOORS (22"MIN. WIDTH) MUST SWING OUT OF SHOWERS. WINDOWS IN ENCLOSURE WALLS SHALL BE LABELED SAFETY GLAZING WHEN LESS THAN 60" ABOVE THE DRAIN. (R307.2)
- 0. SMOKE DETECTORS SHALL BE PROVIDED FOR ALL DWELLING UNITS INTENDED FOR HUMAN OCCUPANCY, WHERE A PERMIT IS REQUIRED FOR ALTERATIONS, REPAIRS, OR ADDITIONS. (R314.2)
- . Where a permit is required for alterations, repairs or additions, existing dwellings or SLEEPING UNITS THAT HAVE ATTACHED GARAGES OR FUEL-BURNING APPLIANCES SHALL BE PROVIDED WITH A CARBON MONOXIDE ALARM IN ACCORDANCE WITH SECTION R315.2. CARBON MONOXIDE ALARMS SHALL ONLY BE REQUIRED IN THE SPECIFIC DWELLING UNIT OR SLEEPING UNIT FOR WHICH THE PERMIT WAS OBTAINED. (R325.2)
- . EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL LIGHT BY MEANS OF EXTERIOR GLAZED OPENINGS IN ACCORDANCE WITH SEC. R303.1 OR SHALL BE PROVIDED WITH ARTIFICIAL LIGHT THAT IS ADEQUATE TO PROVIDE AN AVERAGE ILLUMINATION OF 6 FOOT-CANDLES OVER THE AREA OF THE ROOM AT A HEIGHT OF 30 INCHES ABOVE THE FLOOR LEVEL
- 13. A COPY OF THE EVALUATION REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOBSITE.
- 14. THE PANEL OR SUB-PANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVER-CURRENT PROTECTIVE DEVICE.
- 5. THE SERVICE PANEL OR SUB-PANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVER-CURRENT PROTECTIVE DEVICE S PACE(S) RESERVED FOR FUTURE EV CHARGING AS EV CAPABLE. THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENT AND VISIBLY MARKED EV CAPABLE.

### **ELECTRICAL NOTES**

- THE MAIN ELECTRICAL SERVICE PANEL, AND SUB-PANEL FOR THE ADU SHALL BE OF SUFFICIENT CAPACITY TO CARRY THE ELECTRICAL LOAD OF EACH STRUCTURE PER LOAD CALCULATION REQUIREMENTS OF ARTICLE 220 OF THE CALIFORNIA ELECTRICAL CODE. IF INADEQUATE FOR EXISTING AND NEW LOADS, ELECTRICAL PANELS MAY HAVE TO BE INCREASED IN CAPACITY. CONTACT BUILDING & SAFETY, AND SOUTHERN CALIFORNIA EDISON
- PROVIDE A MINIMUM OF 100 AMPERE ELECTRICAL SERVICE PANEL WITH 1/2" Ø x 20' LONG REBAR FOR BACKUP UFER GROUND BONDED TO COLD WATER PIPE. CONTACT EDISON FOR METER LOCATION AND UNDERGROUND SERVICE IF REQUIRED
- RECEPTACLE OUTLETS SHALL BE SPACED @ 12' O.C. MAX. AND SHALL BE LOCATED WITHIN 6' OF DOOR OPENINGS. ALSO, EVERY 2' OR WIDER OF WALLS, OUTLETS ALSO REQUIRED FOR COUNTER TOPS @ 4' O.C. AND WITHIN 2' OF ENDS OR BREAKS OR COUNTERS, NEC.
- 3. ALL BRANCH CIRCUITS THAT SUPPLY 125 VOLT. SINGLE PHASE, 15 AND 20 AMPERE OUTLETS INSTALLED IN DWELLING UNITS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S). REQUIREMENT IS FOR THE ENTIRE CIRCUIT, NOT JUST THE OUTLETS. REQUIREMENT APPLIES TO ALL NEW OUTLETS, NOT JUST BEDROOMS
- 9. OUTDOOR LIGHTING ATTACHED TO THE BUILDING SHALL BE HIGH EFFICACY OR MUST BE CONTROLLED BY A MOTION SENSOR WITH INTEGRAL PHOTO CONTROL.
- 10. BATHROOM RECEPTACLES SHALL BE SERVED BY DEDICATED 20 AMP. CIRCUITS.
- 11. OCCUPANCY SENSORS MUST HAVE NO MANUAL OVERRIDE, 30 MINUTE MAXIMUM TIMER AND BE MICROWAVE/ULTRASONIC OR PASSIVE INFRA-RED TYPE.
- 12. KITCHENS. ALL LUMINARIES IN KITCHENS SHALL BE HIGH EFFICACY
- 8. LIGHTING IN BATHROOMS, GARAGES, LAUNDRY RM. AND UTILITY RM. SHALL EITHER BE HIGH EFFICACY OR SHALL BE CONTROLLED BY VACANCY SENSOR.
- 14. OTHER ROOMS. ALL LUMINARIES SHALL BE HIGH EFFICACY.
- 15. OUTDOOR LIGHTING ALL LUMINARIES MOUNTED TO THE BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL BE HIGH EFFICACY LUMINARIES OR SHALL BE CONTROLLED BY A PHOTO-CONTROL/MOTION SENSOR COMBINATION.
- SURFACE MOUNTED LIGHTING FIXTURES IN CLOSETS MUST BE 18" FROM STORAGE AREA(S). FLUSH MOUNTED MUST BE 6" AWAY.
- 17. PROVIDE GROUND CIRCUIT INTERRUPTER (GFI) PROTECTION AT OUTLETS INSTALLED IN BATHROOMS, KITCHEN COUNTERTOPS, LAUNDRY AREAS, EXTERIOR, AND ANY OUTLET WITHIN 6-FT FROM A SINK.
- 18. NEW ELECTRICAL SERVICE PANELS, SUB-PANEL SHALL BE PROVIDED WITH A SERVICE GROUNDING ELECTRODE AND WATER PIPE BONDING CONDUCTORS. 100 AMP - NO. 8 COPPER, 200 AMPS - NO. 4 COPPER, 300 AMPS - NO. 2 COPPER, 400 AMPS - 0 COPPER. [CEC 250].
- 19. PROVIDE A UFER OR OTHER APPROVED GROUND PER CEC 250.
- 20. ALL SERVICES SUPPLYING THE DWELLING UNITS SHALL BE PROVIDED WITH A SURGE-PROTECTIVE DEVICE. SPECIFY TYPE 1 OR TYPE 2 SPD. [CEC 230.67]

### PLUMBING NOTES

- SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEAD SHALL BE FINISHED WITH A NONABSORBENT SURFACE TO A HEIGHT NOT LESS THAN 6 FT. ABOVE THE FLOOR.
- ACCOMMODATE 30" Ø WITH MIN. FLOOR AREA OF 1024 SQ. IN. SHOWER DOOR MIN. 22" UNOBSTRUCTED OPENING SWINGING OUTWARDS. PROVIDE A MIN. OF 3" Ø SEWER/DRAIN LINE W/ 2% MIN. SLOPE.
- CONTROL VALVES FOR SHOWER AND TUB-SHOWER SHALL BE OF THE PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE TYPE. . INSTALL LOW CONSUMPTION WATER FOR PLUMBING FIXTURES:

KITCHEN FAUCETS 1.8 GPM AT 60 PSI LAVATORY FAUCETS: 1.2 GPM AT 60 PSI. WATER CLOSETS: 1.28 GAL. PER PLUSH.

SHOWERHEADS:

ACCESS PANEL (12"x12") REQUIRED FOR TUB TRAP SLIP-JOINT OR USE NON-SLIP (WELDED) JOINT. 8. ONLY APPROVED METALLIC WATER LINE CONNECTORS FROM SHUTOFFS TO PLUMBING FIXTURE TO BE USED. RUBBER AND PLASTICS ARE NOT PERMITTED.

1.8 GPM AT 80 PSI.

### CLOTHES DRYER VENT NOTES

- CLOTHES DYER LOCATED IN AN AREA THAT IS HABITABLE OR CONTAINING OTHER FUEL BURNING APPLIANCES SHALL BE EXHAUSTED TO THE OUTSIDE (NOT BENEATH BUILDING OR IN ATTIC AREA).
- DRYER EXHAUST DUCT SHALL BE MINIMUM 4" DIAMETER AND EQUIPPED WITH A BACK-DRAFT DAMPER,
- 8. CLOTHES DRYER MOISTURE EXHAUST DUCT IS LIMITED TO 14' WITH TWO ELBOWS FROM THE CLOTHES DRYER TO THE POINT OF TERMINATION. REDUCE THIS LENGTH BY 2' FOR EACH ELBOW IN EXCESS OF 2.
- 4. PROVIDE MINIMUM OF 100 SQUARE INCHES OF MAKE-UP AIR OPENING AS REQUIRED BY CMC W/ A 14"x10" OPENING W/ GRILL ABOVE THE DOOR LEADING TOT HE HALL, OR LOCATION AS PER BUILDER.

### **EMERGENCY EGRESS**

EVERY SLEEPING ROOM SHALL HAVE AN EMERGENCY EGRESS WINDOW OR DOOR. ESCAPE OR RESCUE WINDOW SHALL HAVE A MINIMUM NET CLEAR WIDTH OF 20-INCHES AND MINIMUM NET CLEAR HEIGHT OF 24-INCHES (TOTAL OPENABLE AREA OF NOT LESS THAN 5.7 SQ.F.T.). WHEN WINDOWS ARE PROVIDED AS MEANS OF ESCAPE OR RESCUE THEY SHALL HAVE A FINISHED SILL HEIGHT NOT MORE THAN 44" ABOVE THE FLOOR.

# SLIDING GLASS DOORS & WINDOWS

- . SAFETY GLAZING (TEMPERED GLAZING) IS REQUIRED FOR THE FOLLOWING: 1.1. FIXED AND OPERABLE PANELS OF SWINGING, SLIDING, AND BI-FOLD DOOR ASSEMBLIES.
- 1.2. GLAZING AN INDIVIDUAL FIXED OF OPERABLE PANEL WITHIN 24-IN ARC OF EITHER VERTICAL EDGE OF A DOOR AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OF WALKING SURFACE.
- 1.3. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL THE FOLLOWING
- 1.3.1. EXPOSED AREA OF AN INDIVIDUAL PANEL GREATER THAN 9 S.F.
- 1.3.2. BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR. 1.3.3. TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR.
- 1.3.4. ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE GLAZING 1.4. ALL GLASS ENCLOSURES AT BATHTUB AND SHOWER
- . SLIDING GLASS DOORS OPENING ONTO PATIOS OR BALCONIES WHICH ARE LESS THAN ONE STORY
- ABOVE GRADE OR ARE OTHERWISE ACCESSIBLE FROM THE OUTSIDE SHALL BE SECURED AS FOLLOWS: 2.1. ALL SLIDING GLASS DOORS SHALL HAVE A HOOK-BOLT DEADLOCK WHICH IS NO LESS THAN 1/8" IN THICKNESS, AND WHICH HAS A MINIMUM THROW OF 1/2"
- 2.2. HE HOOKBOLT DEADLOCK AND THE STRIKE SHALL BE MADE FROM HARDENED STEEL.
- B. ALL SLIDING WINDOWS SHALL HAVE SAFETY LOCKS.

### AGEING-IN-PLACE & FALL PREVENTION REQ. (R327)

- AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH THE FOLLOWING REINFORCEMENT FOR GRAB BARS. (WHEN THERE IS NO BATHROOM ON THE ENTRY LEVEL AT LEAST ONE BATHROOM ON THE SECOND OR THIRD FLOOR OF THE DWELLING SHALL COMPLY WITH THIS
- 1.1. REINFORCEMENT SHALL BE SOLID LUMBER. 1.2. REINFORCEMENT SHALL BE NOT LESS THAN 2x8 NOMINAL LUMBER.
- 1.3. REINFORCEMENT SHALL BE LOCATED BETWEEN 32 INCHES AND 39  $\frac{1}{2}$  INCHES ABOVE THE FINISHED FLOOR FLUSH WITH THE WALL FRAMING. 1.4. WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE, OR
- ONE SIDE WALL AND THE BACK WALL 1.5. SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED. 1.6. BATHTUB AND COMBINATION BATHTUB/SHOWER REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE PROVIDED WITHIN THE BOTTOM EDGE LOCATED NOT MORE THAN 6 INCHES ABOVE THE BATHTUB RIM.
- 2. ELECTRICAL RECEPTACLES OUTLETS, SWITCHES AND CONTROLS (INCLUDING CONTROLS FOR HEATING VENTILATION AND AIR CONDITIONING) INTENDED TO BE USED BY THE OCCUPANTS SHALL BE LOCATED NOT MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT
- LESS THAN 15 INCHES MEASURED FORM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISH FLOOR. 3. DOORBELL BUTTONS OR CONTROLS, WHEN INSTALLED, SHALL NOT EXCEED 48 INCHES ABOVE

EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL ASSEMBLY.

4. AT LEAST ONE BATHROOM AND ONE BEDROOM ON THE ENTRY LEVEL SHALL PROVIDE A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32 INCHES, MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM THE CLOSED POSITION.

### ENERGY STORAGE SYSTEM (ESS) READY INFRASTRUCTURE MUST BE INSTALLED (CEnC 150.0):

- . AT LEAST ONE SHALL BE PROVIDED:
- 1.1. ESS READY INTERCONNECTION EQUIPMENT WITH MINIMUM BACKED UP CAPACITY OF 60 AMP AND 4 ESS SUPPLIED BRANCH CIRCUITS 1.2. DEDICATED RACEWAY FROM MAIN SERVICE TO SUB-PANEL THAT SUPPLIES BRANCH CIRCUITS.
- 2. IDENTIFY AT LEAST 4 BRANCH CIRCUITS FOR EMERGENCY USE (SUPPLY REFRIGERATOR, LIGHTING NEAR FRONT DOOR, ONE OUTLET IN BEDROOM).
- 3. SPACE FOR FUTURE SYSTEM ISOLATION EQUIPMENT OR TRANSFER SWITCH WITHIN 3 FEET OF MAIN
- PANEL AS WELL AS RACEWAYS INSTALLED BETWEEN PANEL AND SYSTEM ISOLATION EQUIPMENT OR TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF BACKUP POWER SOURCE.
- 4. MAIN PANELBOARD SHALL HAVE A MINIMUM BUSBAR RATING OF 225 AMPS.

### ELECTRIC READY MANDATORY REQUIREMENTS (INFRASTRUCTURE MUST BE INSTALLED): (CEnC 150.0):

- IF GAS OR PROPANE WATER HEATING SYSTEM. PROVIDE DESIGNATED SPACE FOR FUTURE HEAT PUMP WATER HEATER AT LEAST 2.5 FEET BY 2.5 FEET AND 7 FEET TALL. 1.1. IF WITHIN 3 FEET OF WATER HEATER PROVIDE A 125 V, 20 A CIRCUIT WITH 120/240V CONDUCTOR, RESERVE AND LABEL SINGLE POLE BREAKER IN MAIN PANEL. PROVIDE CONDENSATE DRAIN
- 1.2. IF MORE THAN 3 FEET FROM WATER HEATER PROVIDE 240V, 30A CIRCUIT WITH TERMINATION 3 FEET FROM DESIGNATED SPACE. RESERVE AND LABEL DOUBLE POLE BREAKER IN MAIN PANEL PROVIDE WATER LINES, BOTH HOT AND COLD, ROUTED THROUGH DESIGNATED SPACE BEFORE REACHING GAS OR PROPONE WATER HEATER. PROVIDE A CONDENSATE LINE.
- 2. IF GAS OR PROPANE SPACE HEATING SYSTEM, PROVIDE A 240V, 30A CIRCUIT WITH TERMINATION 3 FEET FROM FURNACE. RESERVE AND LABEL DOUBLE POLE BREAKER IN MAIN PANEL.
- 3. IF GAS OR PROPANE STOVE, PROVIDE 240V, 50A CIRCUIT WITH TERMINATION 3 FEET FROM COOKTOP RESERVE AND LABEL POLE BREAKER IN MAIN PANEL.
- 4. IF GAS OR PROPANE CLOTHES DRYER, PROVIDE 240V, 30A CIRCUIT WITH TERMINATION 3 FEET FROM CLOTHES DRYER LOCATION. RESERVE AND LABEL DOUBLE POLE BREAKER IN MAIN PANEL.

### SMOKE ALARM NOTE

- PROVIDE HARD WIRE SMOKE ALARM WITH BATTERY BACKUP IN EACH SLEEPING AREA AND IN POINT CENTRALLY LOCATED IN THE CORRIDOR OR AREA GIVING ACCESS TO EACH SEPARATE SLEEPING AREA AND IN EACH STORY WITHIN A DWELLING UNIT. EACH DWELLING UNIT SMOKE ALARM SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. CFC SECTION 907.2.10.3.
- SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN A 3-FOOT HORIZONTAL DISTANCE FROM THE OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER LINI ESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BE OTHER SECTIONS OF THE CODE. [R314.3]
- 3. SMOKE ALARMS OR SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 20-FEET HORIZONTAL DISTANCE FROM A PERMANENTLY INSTALLED COOKING APPLIANCE. [R314.3]

### CARBON MONOXIDE NOTE

PROVIDE HARD WIRED CARBON MONOXIDE ALARMS WITH BATTERY BACK-UP AND COMPLYING WITH UL 2075. THEY ARE REQUIRED OUTSIDE OF EACH SLEEPING AREA IN THE IMMEDIATE VICINITY OF BEDROOMS; AND ON EACH LEVEL OF A DWELLING UNIT, INCLUDING BASEMENT WHERE THERE IS AN ATTACHED GARAGE OR FUEL BURNING APPLIANCE. [R315]

# ENERGY CODE LIGHTING STANDARDS

- 1. KITCHEN: ALL INSTALLED WATTAGE OF LUMINARIES IN KITCHENS SHALL BE HIGH EFFICACY.
- 2. BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: ALL LUMINARIES SHALL BE HIGH EFFICACY AND SHALL BE CONTROLLED BY A VACANCY SENSOR.
- 3. OTHER ROOMS: ALL LUMINARIES SHALL BE HIGH EFFICACY AND SHALL BE CONTROLLED BY A VACANCY SENSOR OR DIMMER. CLOSETS THAT ARE LESS THAN 70 S.F. ARE EXEMPT FROM THIS
- 4. OUTDOOR LIGHTING: ALL LUMINARIES MOUNTED TO THE BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL BE HIGH EFFICACY LUMINARIES OR SHALL BE CONTROLLED BY A PHOTO-CONTROL / MOTION SENSOR COMBINATION (WITH OVERRIDE).
- 5. HERS RATER VERIFICATION IS REQUIRED FOR THIS PROJECT. SEE CR-1R FOR FEATURES REQUIRING
- 6. SEE THE RESIDENTIAL MANDATORY MEASUREMENTS FOR MORE REQUIREMENTS, SHEET T24-1.

HERS VERIFICATION.

AND IDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS.

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SHEET DESCRIPTION

THIS PROJECT.

ARCHITECTURAL **GENERAL NOTES** 

SHEET NO.

CITY OF PICO RIVERA COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

6615 PASSONS BLVD. PICO RIVERA, CA 90660 PHONE: (562) 801-4332

DATE: 1 / 1 / 2025

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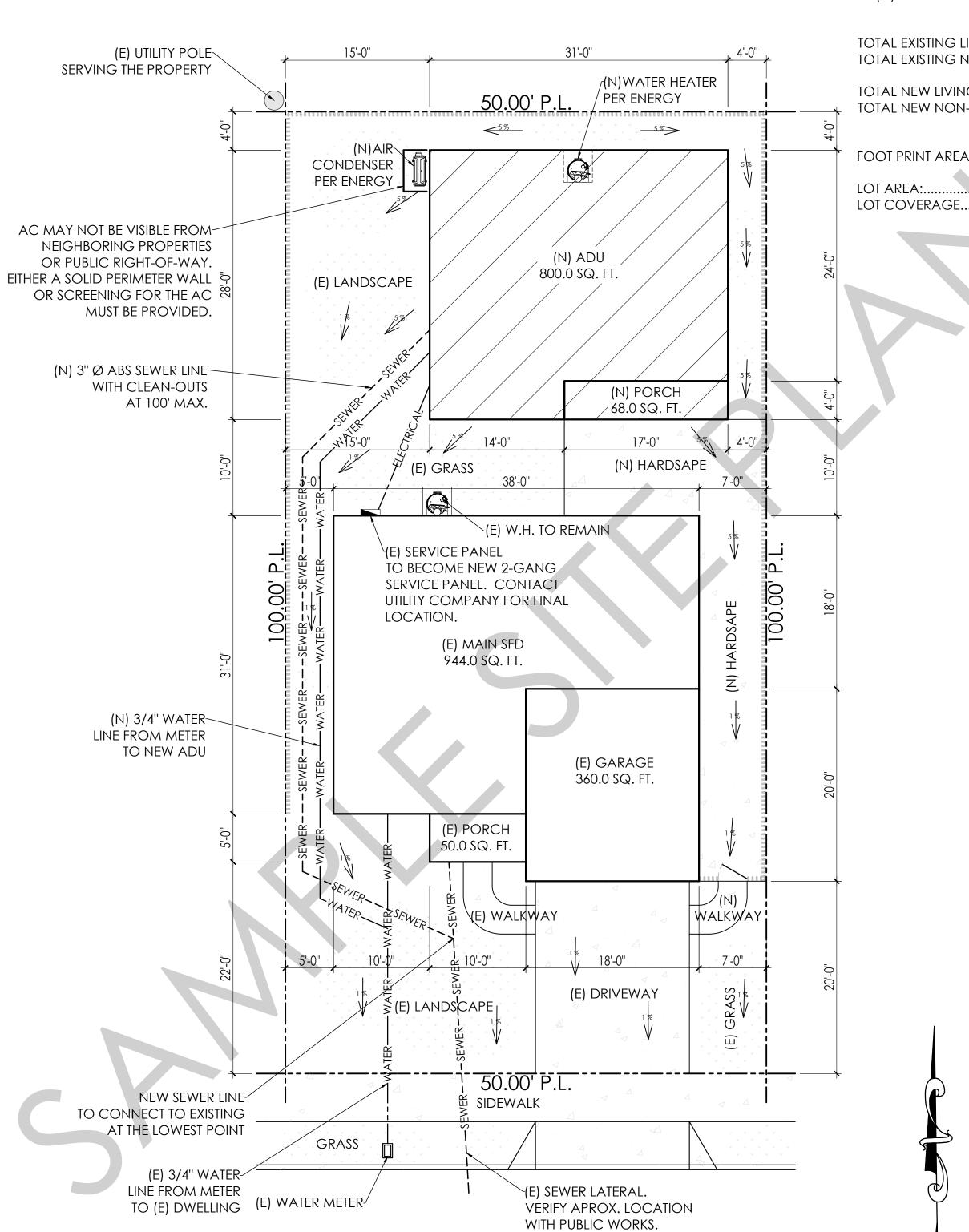
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ELECTRICAL LOAD CALCULATION										
PANEL:	PANEL: ADU									
QTY.	EQUIPMENT	VA PER UNIT	VA							
800	GENERAL LIGHTHING & RECEPTACLES	3	2,400							
2	SMALL APPLIANCE	1500	3,000							
1	REFRIGERATOR	1500	1,500							
1	DISHWASHER	900	900							
1	DISPOSAL	600	600							
1	MICROWAVE	1500	1,500							
1	RANGE/OVEN	9600	9,600							
1	DRYER	4500	4,500							
1	LAUNDRY	1500	1,500							
1	WATER HEATER	4500	4,500							
		SUB-TOTAL:	30,000							
	DEMAND CALCULATION	ON								
	FIRST 10,000 VA @ 100%		10,000							
		REMAINDER	20,000							
	REMAINDER @ 40%		8,000							
	HVAC EQUIPMENT									
1	COND/HEAT PUMP TO 4 TON.	5500	5,500							
2	EXHAUST FANS	60	120							
		TOTAL VA	23,620							
	(TOTAL VA/240)		98.42							

	ADU - SIZING CHART									
TABLE 70	TABLE 702.1 - DRAINAGE FIXTURE UNITS VALUES (DFU)									
FIXTURE	MIN. SIZE TRAP & TRAP ARM (IN.)	DFU (EA.)	QTY.	TOTAL DFU						
BATH/SHOWER	1 1/2	2	1	2						
WASHER	2	3	1	3						
DISHWASHER	1 1/2	2	1	2						
LAVATORY	1 1/4	1	1	1						
LAVATORY IN SE	1 1/2	2	0	0						
KITCHEN	1 1/2	2	1	2						
LAUNDRYSINK	1 1/2	2	0	0						
W.C. (1.6 GPF)	3	3	1	3						
		Т	OTAL DFU:	13						
	3" MAIN SANIT.	ARY DRAINA(	GE							

	ADU - SIZING CHART								
TABLE	610.3 - WATER SUF	PPLY FIXTURE U	NITS (WSF	U)					
FIXTURE	MIN. BRANCH PIPE SIZE (IN.)	WSFU (EA)	QTY.	TOTAL WSFU					
BATH/SHOWER	1/2	4	1	4					
WASHER	1/2	4	1	4					
DISHW ASHER	1/2	1.5	1	1.5					
HOSE BIDD	1/2	2.5	1	2.5					
LAVATORY	1/2	1	1	1					
KITCHEN	1/2	1.5	1	1.5					
LAUNDRYSINK	1/2	1.5	0	0					
W.C. (1.6 GPF)	1/2	2.5	1	2.5					
		TOI	  AL WSFU:	17					
SERVICE SIZE:	3/4"	M	ETER SIZE:	3/4"					
- M	OVER 60 PSI @	150'							
	PER 2022 CPC (TA	BLE 610.4)							
7									



SAMPLE SITE PLAN Scale: 1/8"=1'-0"

# LOT COVERAGE CALCULATION

1. (E) MAIN SFD

SURVEY NOTE:

THIS SITE PLAN IS PREPARED USING AS-BUILT INFORMATION AND FIELD

REGARDING ARCHITECTURAL ELEMENTS OF THE BUILDING ONLY.

PER CITY POLICY A PROPERTY LINE SURVEY IS REQUIRED FOR NEW

SETBACK IS LESS THAN 5'-0" TO THE PROPERTY LINE.

OBSERVATION. THIS DRAWING IS INTENDED TO PROVIDE INFORMATION

CONSTRUCTION AND ANY AUXILIARY BUILDINGS OR ADDITIONS WHERE

. 944.0 SQ.FT.

. 44.4 %

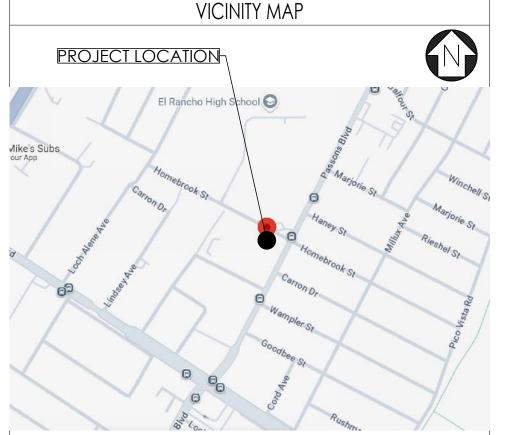
2. (E) GARAGE 3. (E) PORCH 4. (N) PORCH 5. (N) ADU	50.0 SQ.FT. 68.0 SQ.FT.
TOTAL EXISTING LIVING SPACETOTAL EXISTING NON-LIVING SPACE	
TOTAL NEW LIVING SPACETOTAL NEW NON-LIVING SPACE	
FOOT PRINT AREA	2,222.0 SQ.FT.
LOT AREA:	5,000.0 SQ.FT.

LEGEND SITE SLOPED DRAINAGE. 5% SLOPED AWAY FROM STRUCTURE. 1% SLOPED AT SITE. NEW PROPOSE CONSTRUCTION PROPERTY LINE STRUCTURES/ROOF LINE CONCRETE EDGE LINE CONCRETE SLAB. I.E. DRIVEWAY, WALKWAY, SIDEWALK. LANDSCAPE / GRASS ELECTRICAL SERVICE PANEL WATER HEATER

(E) CONCRETE BLOCK WALL. 6' HIGH

### SITE PLAN NOTES

- ATTACHED ACCESSORY DWELLING UNIT IS NOT REQUIRED TO HAVE A SEPARATE-INDEPENDENT CONNECTION TO THE PUBLIC SEWER IN THE PUBLIC STREET. THE SANITARY DRAINAGE FOR AN ADU IS ALLOWED TO CONNECT TO THE EXISTING SEWER LATERAL OF THE MAIN DWELLING WHERE THIS METHOD OF CONNECTION IS A STANDARD FOR ADU SANITARY DRAINAGE. THE DRAIN LINE FOR THE ADU SHOULD BE INSTALLED WITHIN THE PROPERTY'S COURT, YARD, OR DRIVEWAY - OR, WHERE COMPLIANT, UNDER THE RAISED FLOOR OF THE EXISTING DWELLING. 1.1. 5 OR MORE TOILETS REQUIRED 4" SEWER LINE. (TABLE 703.2 NOTE #4 CPC)
- 2. PV SYSTEM REQUIRED, UNDER SEPARATE PERMIT. SEE ENERGY ANALYSIS FOR MINIMUM PV SYSTEM SIZE.
- BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL BE A MIN. OF 4" HIGH WITH A MIN. STROKE OF 0.5" FOR SINGLE FAMILY RESIDENTIAL STRUCTURES. WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING CANNOT BE VIEWED FROM A PUBLIC WAY, A MONUMENT, POLE OR OTHER ACCEPTABLE SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE.
- 4. PROVISIONS FOR CONTRIBUTORY DRAINAGE SHALL BE MADE AT ALL TIMES.
- 5. ONSITE RUNOFF SHALL BE CARRIED TO THE STREET OR STORM DRAIN FACILITIES. ALL THE EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION AT ALL TIMES; ESPECIALLY DURING STORM CONDITIONS. APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE PROJECT. IN ANY CASE, THE CONTRACTOR AND OWNERS SHALL BE HELD LIABLE FOR ANY DAMAGE
- ADJACENT PROPERTIES.



CITY OF PICO RIVERA COMMUNITY & ECONOMIC

> DEVELOPMENT DEPARTMENT 6615 PASSONS BLVD. PICO RIVERA, CA 90660 PHONE: (562) 801-4332

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--SEWER--- 3" Ø ABS SEWER LINE

—WATER—— 3/4" Ø COPPER-TYPE L WATER LINE

- THE SANITARY DRAINAGE FOR A DETACHED OR
- ADDRESS IDENTIFICATION. NEW AND EXISTING
- DUE TO CONSTRUCTION.
- 6. DO NOT DRAIN OR DIRECT SITE DRAINAGE TO

ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. SHEET DESCRIPTION

SAMPLE SITE PLAN

BY USING THESE PERMIT READY

CONSTRUCTION DOCUMENTS, THE RECIPIENT

WNERS AGREE TO RELEASE, HOLD HARMLES

AND IDEMNIFY THE CITY OF PICO RIVERA, ITS

SHEET NO.

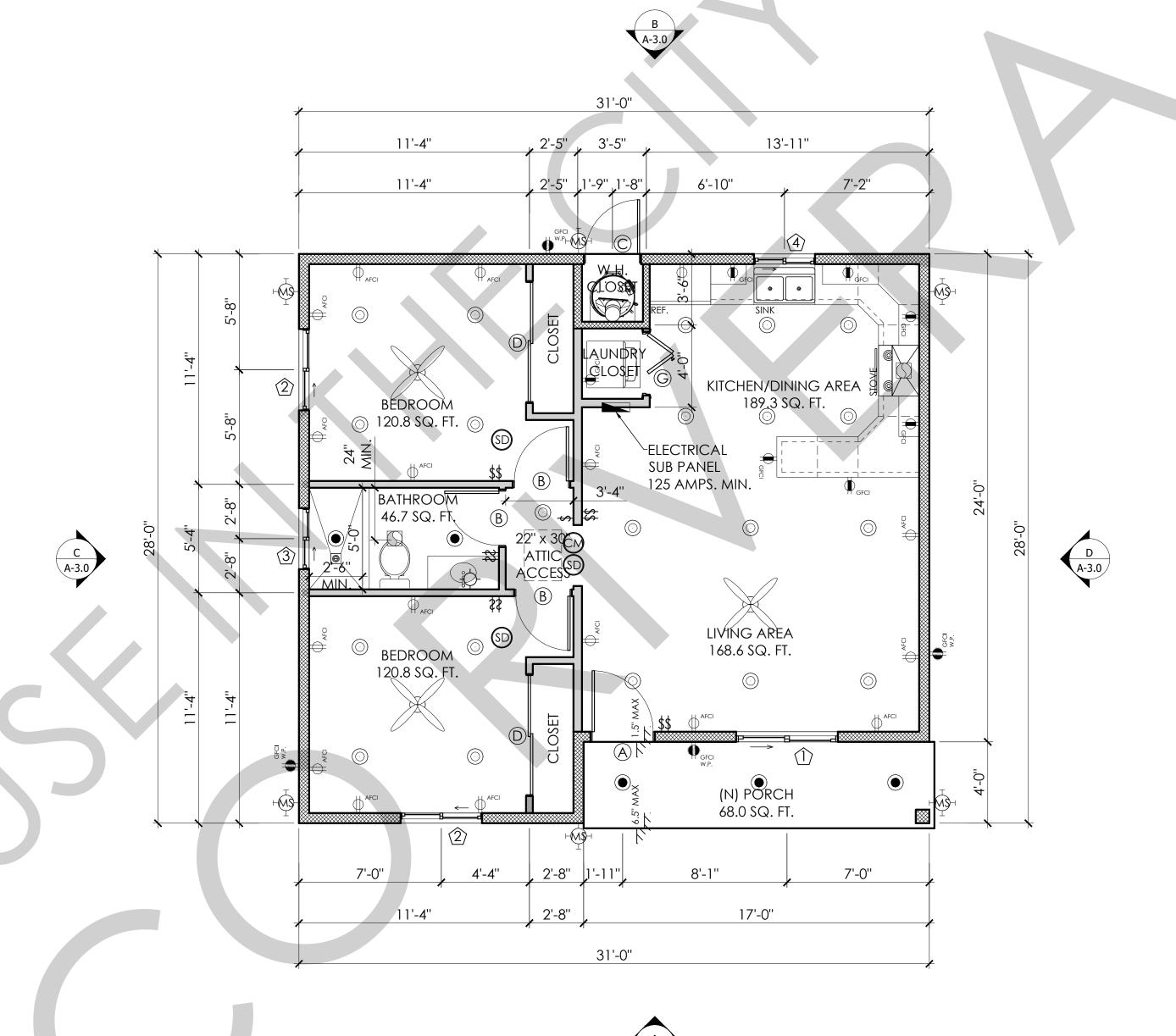
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PANEL: ADU									
QTY.	EQUIPMENT	VA PER UNIT	VA						
800	GENERAL LIGHTHING & RECEPTACLES	3	2,400						
2	SMALL APPLIANCE	1500	3,000						
1	REFRIGERATOR	1500	1,500						
1	DISHWASHER	900	900						
1	DISPOSAL	600	600						
1	MICROWAVE	1500	1,500						
1	range/oven	9600	9,600						
1	DRYER	4500	4,500						
1	LAUNDRY	1500	1,500						
1	WATER HEATER	4500	4,500						
		SUB-TOTAL:	30,000						
	DEMAND CALCULATION	ON							
	FIRST 10,000 VA @ 100%		10,000						
		REMAINDER	20,000						
	REMAINDER @ 40%		8,000						
	HVAC EQUIPMENT								
1	COND/HEAT PUMP TO 4 TON.	5500	5,500						
2	EXHAUST FANS	60	120						
		TOTAL VA	23,620						
	(TOTAL VA/240)		98.42						

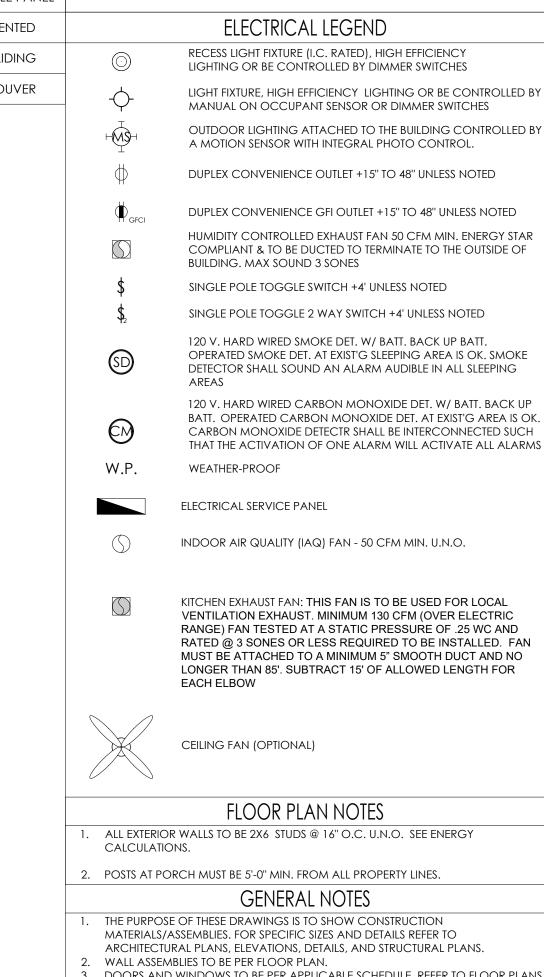
ADU - SIZING CHART  TABLE 702.1 - DRAINAGE FIXTURE UNITS VALUES (DFU)								
FIXTURE	MIN. SIZE TRAP & TRAP ARM (IN.)	DFU (EA.)	QTY.	TOTAL DFU				
BATH/SHOWER	1 1/2	2	1	2				
WASHER	2	3	1	3				
DISHWASHER	1 1/2	2	1	2				
LAVATORY	1 1/4	1	1	1				
LAVATORYIN SE	1 1/2	2	0	0				
KITCHEN	1 1/2	2	1	2				
LAUNDRYSINK	1 1/2	2	0	0				
W.C. (1.6 GPF)	3	3	1	3				
1-4			 TOTAL DFU :	13				
	3" MAIN SANIT	ARY DRAINA	GE	•				

	ADU - SIZING CHART					
TABLE 610.3 - WATER SUPPLY FIXTURE UNITS (WSFU)						
FIXTURE	MIN. BRANCH PIPE SIZE (IN.)	WSFU (EA)	QTY.	TOTAL WSFU		
BATH/SHOWER	1/2	4	1	4		
WASHER	1/2	4	1	4		
DISHW ASHER	1/2	1.5	1	1.5		
HOSE BIDD	1/2	2.5	1	2.5		
LAVATORY	1/2	1	1	1		
KITCHEN	1/2	1.5	1	1.5		
LAUNDRYSINK	1/2	1.5	0	0		
W.C. (1.6 GPF)	1/2	2.5	1	2.5		
		TC	TAL WSFU:	17		
SERVICE SIZE:	3/4"	٨	NETER SIZE:	3/4"		
	OVER 60 PSI @	150'				
	PER 2022 CPC (TA	BLE 610.4)				

	WINDOW SCHEDULE			DOOR SCHEDULE					
	SIZE & TYPE	GLAZING AREA (S.F.)	LOCATION (ROOM)	TEMPERED GLAZING		SIZE	MATERIAL	LOCATION	NOTE
1	5'-0" X 4'-0" SL	20.0	LIVING	NO	A	36" X 80"	SOLID CORE	ENTRY	TEMPERED
2	4'-0" X 4'-0" SL	16.0	BEDROOM	NO	B	36" X 80"	HOLLOW CORE	INTERIOR	SINGLE PANEL
3	3'-0" X 1'-6" SL	4.5	BATHROOM	YES	©	36" X 80"	SOLID CORE	EXTERIOR	VENTED
4	3'-0" X 3'-0" SL	9.0	KITCHEN/ DINING	NO	D	72" X 80"	HOLLOW CORE	CLOSET	SLIDING
					E	30" X 80"	HOLLOW CORE	LAUNDRY	LOUVER



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



A.A. FIRE-BLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:

A.A.A. VERTICALLY AT CEILING AND FLOOR LEVELS A.A.B. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET. A.B. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS.

A.D. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILINGS AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E136

A.E. FOR THE FIRE-BLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION

THE LINE OF DWELLING-UNIT SEPARATION. B. SECTION R302.11.1 - FIRE-BLOCKING MATERIALS SHALL CONSIST OF FOLLOWING MATERIALS:

BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS

B.E. ONE-HALF-INCH GYPSUM BOARD

SLAB THAT IS IN DIRECT CONTACT WITH GROUND, UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER SHALL BE NATURALLY DURABLE OR

8. ALL INSTALLED LUMINARIES SHALL BE HIGH EFFICIENCY FIXTURES (CENC 150.0(K)1.A). 9. OUTDOOR LIGHTING MUST BE HIGH EFFICACY LIKE INDOOR LIGHTING.

MUST INCLUDE MANUAL ON/OFF SWITCH AND ONE OF THE FOLLOWING: A. PHOTOCONTROL AND MOTION SENSOR.

C. ASTRONOMICAL TIME SWITCH CONTROL.

D. ENERGY MANAGEMENT CONTROL SYSTEM.

4. CALIFORNIA GREEN BUILDING STANDARDS CODE REQUIRES REPLACEMENT OF ALL EXISTING NON-COMPLIANCE PLUMBING FIXTURES. (GBSC 301.1.1) (GBSC 301.3.1). ENCOMPASS A 30" DIAMETER CIRCLE. DOOR(S) MUST BE OF TEMPERED GRALL AND SWING OUTWARD WITH A MINIMUM OPENING OF 22". (CPC 408.5, 408.6)

COMPARTMENT ALLOWING FOR TEMPERATURE ADJUSTMENT WITHOUT STEPPING

PRESSURE BALANCING AND THERMOSTATIC. (CPC 408.3).

8. ALL BRANCH CIRCUITS THAT SUPPLY 125 VOLT. SINGLE PHASE, 15 AND 20 AMPERE OUTLETS INSTALLED IN DWELLING UNITS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S). REQUIREMENT IS FOR THE ENTIRE CIRCUIT, NOT JUST THE OUTLETS. REQUIREMENT APPLIES TO ALL NEW OUTLETS, NOT JUST BEDROOMS. 9. TAMPER RESISTANT OUTLETS PER CEC 406.1.1

CITY OF PICO RIVERA COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

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120 V. HARD WIRED CARBON MONOXIDE DET. W/ BATT. BACK UP BATT. OPERATED CARBON MONOXIDE DET. AT EXIST'G AREA IS OK. CARBON MONOXIDE DETECTR SHALL BE INTERCONNECTED SUCH THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL ALARMS

WALL LEGEND

2X4 INTERIOR WALL

2X6 1-HR FIRE RATED STUD WALL PER DETAIL 1/A-4.0 U.N.O. (SEE REGISTER ENERGY CALCULATIONS BY OTHERS)

VENTILATION EXHAUST. MINIMUM 130 CFM (OVER ELECTRIC RANGE) FAN TESTED AT A STATIC PRESSURE OF .25 WC AND RATED @ 3 SONES OR LESS REQUIRED TO BE INSTALLED. FAN MUST BE ATTACHED TO A MINIMUM 5" SMOOTH DUCT AND NO LONGER THAN 85'. SUBTRACT 15' OF ALLOWED LENGTH FOR

3. DOORS AND WINDOWS TO BE PER APPLICABLE SCHEDULE. REFER TO FLOOR PLANS FOR IDENTIFICATION. 4. INSULATION: REFER TO TITLE 24 REPORT AND KEYNOTES ON SHEET FOR ADDITIONAL

RATINGS, REQUIREMENTS, AND INFORMATION. 5. FIRE-BLOCKING TO BE LOCATED AT THE FOLLOWING LOCATIONS PER 2022 CRC A. SECTION R302.11 -

A.C. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION

REQUIREMENTS.

A.F. FIRE-BLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT

B.A. TWO-INCH NOMINAL LUMBER B.B. TWO THICKNESS OF ONE-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS B.C. THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH JOINTS

B.D. THE THICKNESS OF 0.75-INCH PARTICLE BOARD WITH JOINTS BACKED BY 0.75-INCH PARTICLE BOARD

B.F. ONE-FOURTH-INCH CEMENT-BASED MILLBOARD B.G. BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIAL INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN B.H. CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM

E119 OR UL 263, FOR THE SPECIFIC APPLICATION. 6. PER 2022 CRC SECTION R317 SLEEPERS AND SILLS ON A CONCRETE OR MASONRY

PRESERVATIVE-TREATED WOOD. 7. RECESS LIGHTING FIXTURES SHALL BE RATED AS AIR-TIGHT (AT) AND, WHEN INSTALLED IN AN INSULATED CEILING SHALL HAVE AN APPROVED ZERO CLEARANCE INSULATION COVER (IC). (CENC SECTION 150).

B. PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL.

5. SHOWERS SHALL HAVE A MINIMUM INTERIOR AREA OF 1024 SQUARE INCHES AND 6. CONTROL VALVES AND SHOWERHEADS SHALL BE LOCATED THAT THE SHOWER DOES NOT DISCHARGE DIRECTLY AT THE ENTRANCE TO THE BATH TUB

INTO THE SHOWER SPRAY. (CPC 408.9). 7. SHOWERS AND TUB SHOWER COMBINATIONS SHALL HAVE VALVES THAT ARE

10. BATHROOM OUTLET(S) SHALL BE ON A DEDICATED 20 AMP. CIRCUIT. 11. 2-20 AMP. MIN. KITCHEN CIRCUITS.12. 20 AMP. MIN. DEDICATED CIRCUIT FOR LAUNDRY.

SHEET NO.

BY USING THESE PERMIT READY

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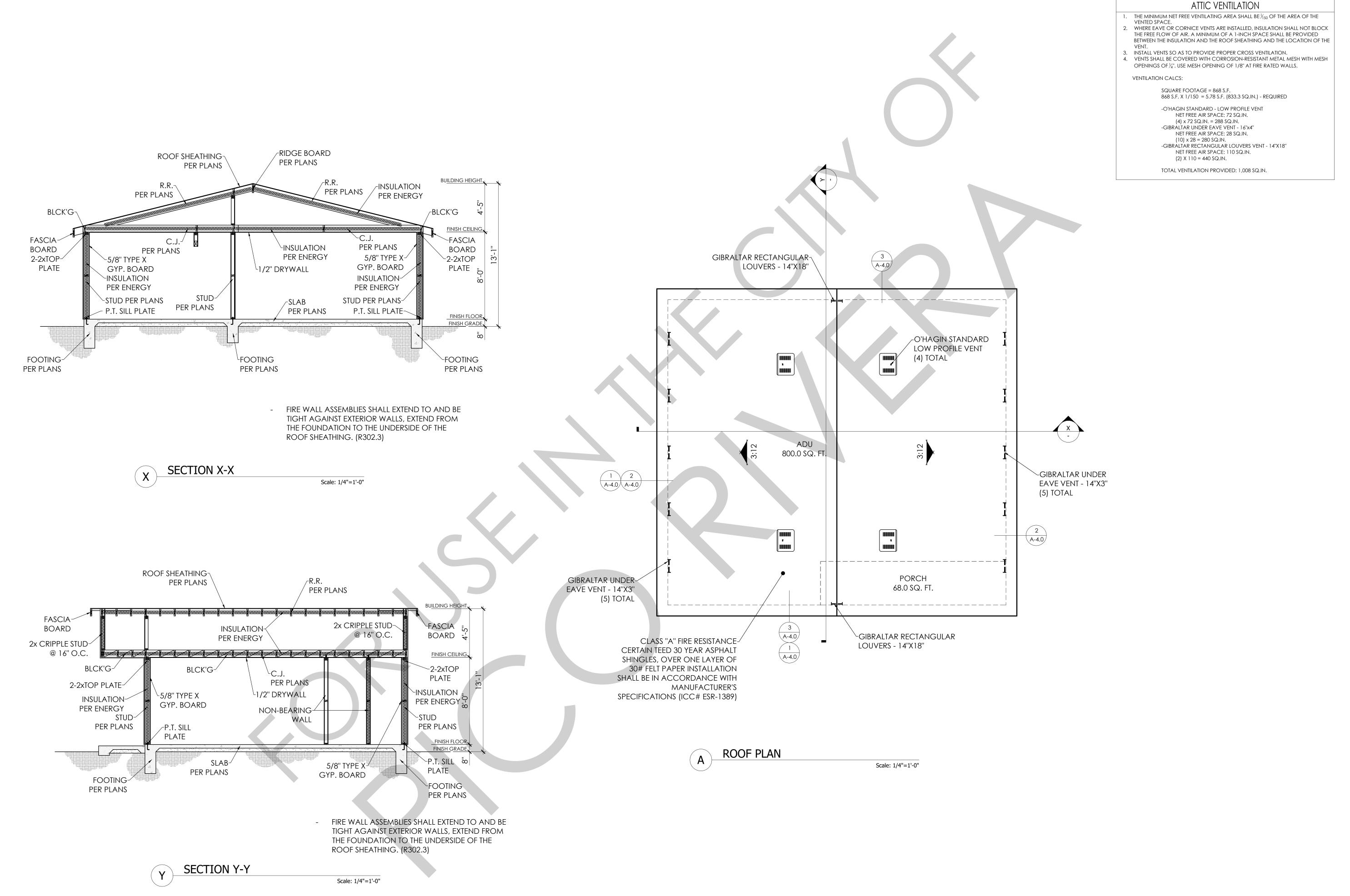
RECIPIENT'S WORK AND RESPONSIBILITY ON

THIS PROJECT.

FLOOR PLAN

& ROOF PLAN

SHEET DESCRIPTION



CITY OF PICO RIVERA COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT 6615 PASSONS BLVD. PICO RIVERA, CA 90660

PHONE: (562) 801-4332

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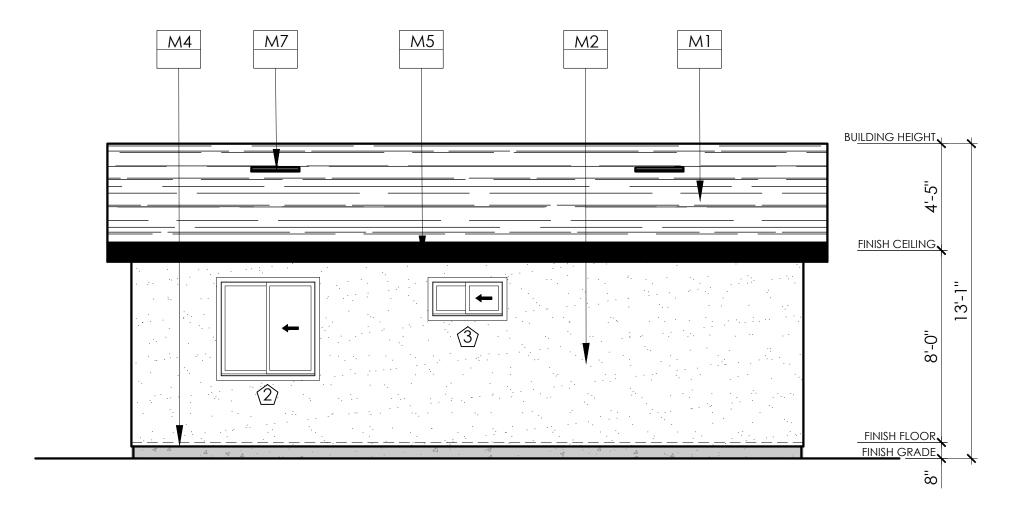
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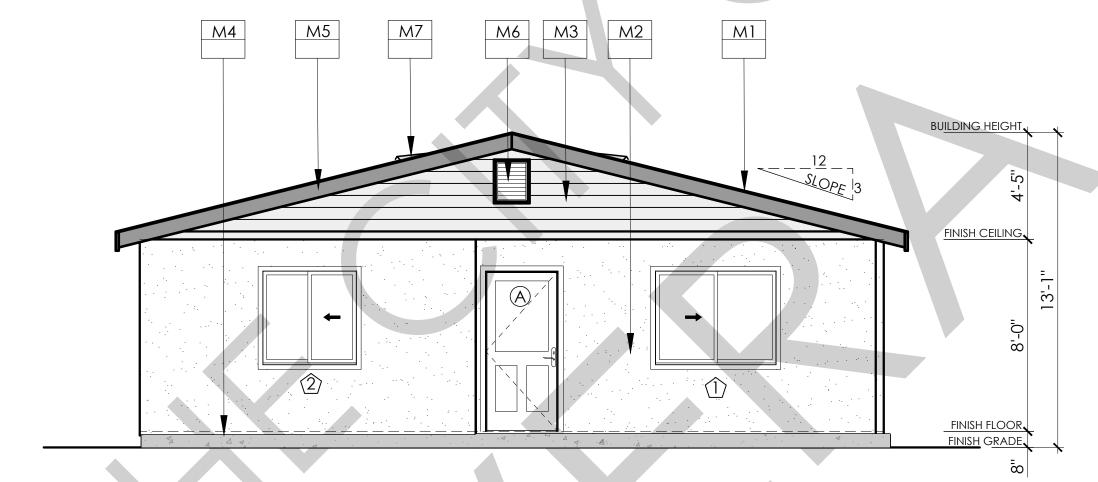
SHEET DESCRIPTION

**ROOF PLAN** & CROSS SECTIONS

SHEET NO.

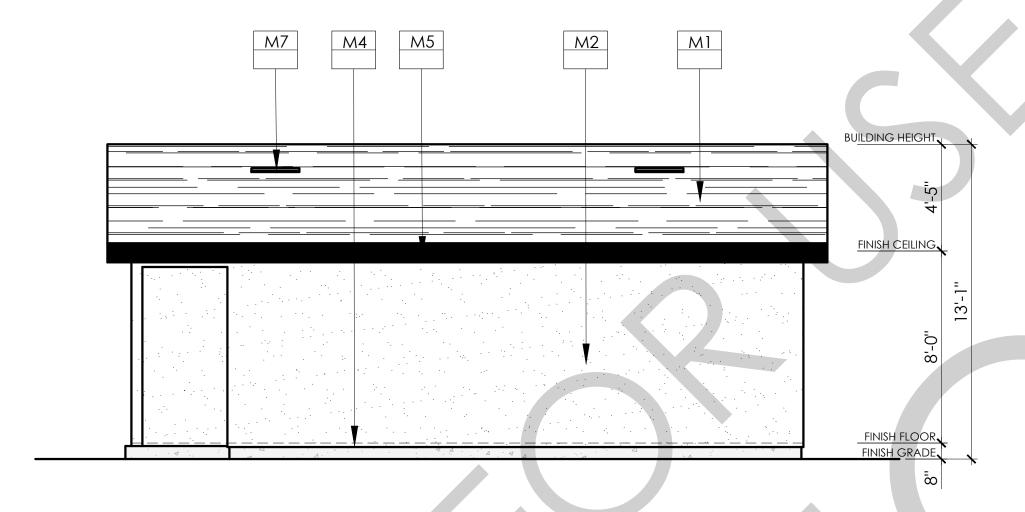
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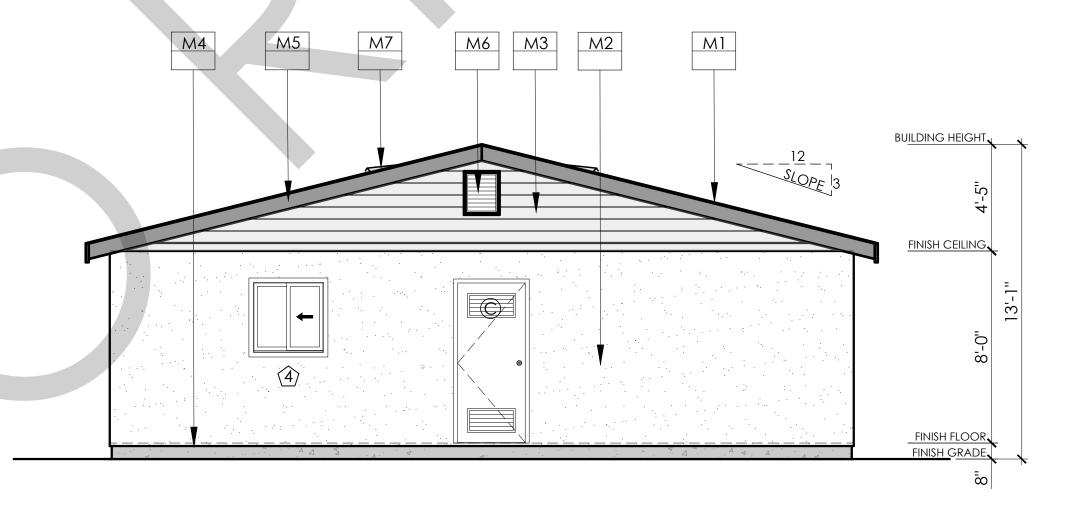








Scale: 1/4"=1'-0"



LEFT SIDE ELEVATION

REAR SIDE ELEVATION Scale: 1/4"=1'-0" FINISH MATERIAL

CLASS A FIRE RESISTANCE CERTAIN TEED 30 YEAR ASPHALT SHINGLES, OVER ONE LAYER OF 30# FELT PAPER INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS (ICC# ESR-1389) NO SECONDS ALLOWED

(N)  $\frac{7}{8}$ " STUCCO OVER 15# FELT PAPER TO MATCH EXISTING. LA HABRA ICC-ESR:2564

HARDIEPLANK SIDING OVER 15# FELT PAPER ICC- ESR#2290 (HORIZONTAL)

WEEP SCREED 4" ABOVE THE EARTH OR 2" ABOVE PAVED AREA

2"x 6" FASCIA BOARDS, WITH 1'-0" MAX. OVERHANG AT EAVE.

LOUVERS - 14"X18"

OWNER BEFORE PERFORMING THE WORK.

### **ELEVATION GENERAL NOTES**

3. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O.

4. REFER TO ROOF PLAN FOR ROOF PITCH, OVERHANGS, AND APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O. FASCIA PER DETAILS. PROVIDE ALUMINUM

INFORMATION. THE PRINCIPAL RESIDENCE. CONTRACTOR TO VERIFY COLOR SCHEME WITH CITY OF PICO RIVERA COMMUNITY & ECONOMIC

PHONE: (562) 801-4332

DEVELOPMENT DEPARTMENT

6615 PASSONS BLVD.

PICO RIVERA, CA 90660

DATE: 1 / 1 / 2025

GIBRALTAR RECTANGULAR

O'HAGIN STANDARD LOW PROFILE VENT

SEE DETAILS FOR ADDITIONAL REQUIREMENTS.

PAINT GRILLES AND LOUVERS TO MATCH ADJACENT FINISH WHERE OCCURS. THE ADU BUILDING COLORS AND MATERIALS SHALL BE THE SAME OR SIMILAR TO

REFER TO GENERAL NOTES SHEET A-0.1 FOR ADDITIONAL REQUIREMENTS

5. REFER TO DOOR AND WINDOW SCHEDULES FOR TYPE AND ADDITIONAL

: - APPROVED , VERA, CA PRE CO-RIV PICO

ADU

RIVERA

O

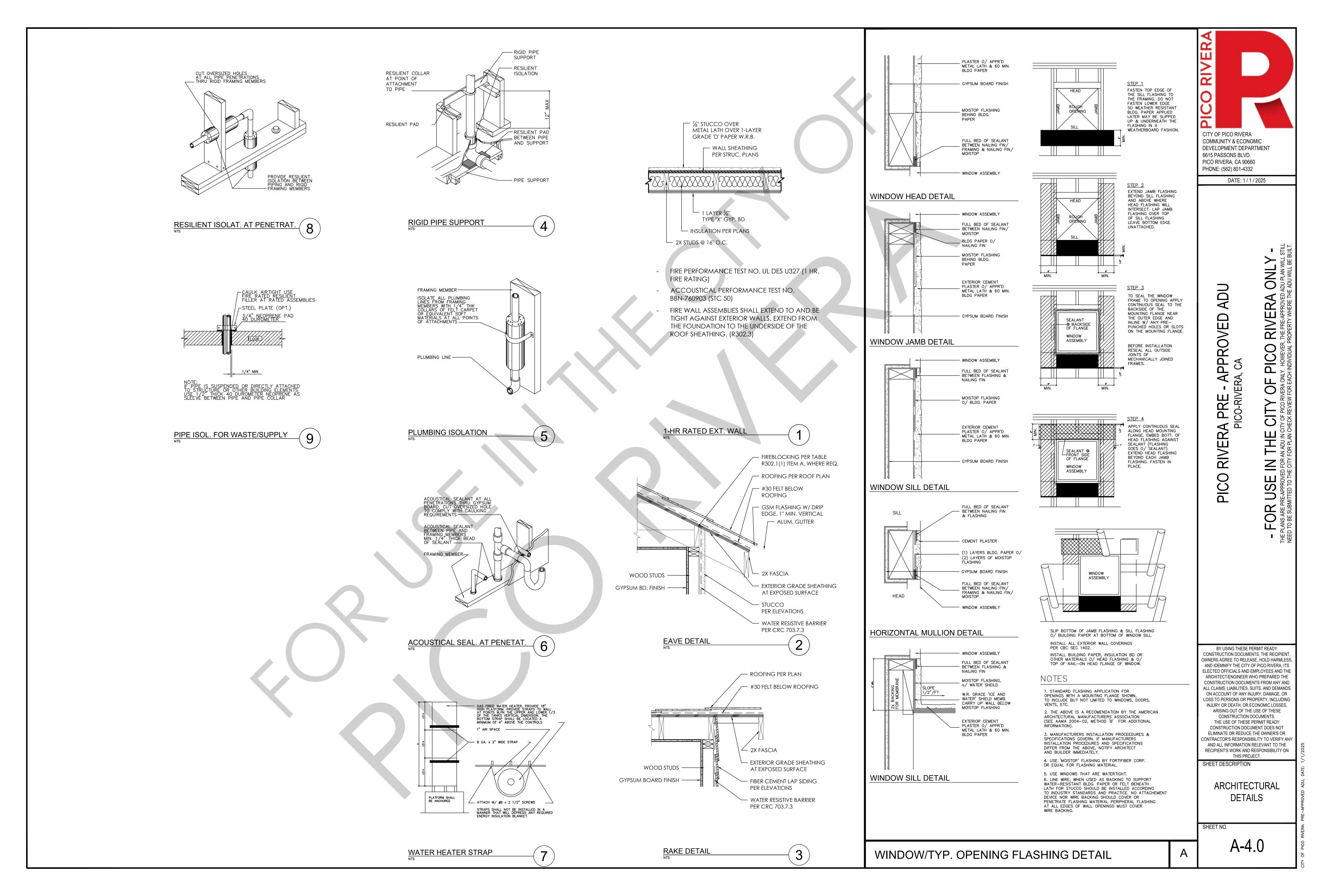
BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT OWNERS AGREE TO RELEASE, HOLD HARMLESS AND IDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON

THIS PROJECT. SHEET DESCRIPTION

**ELEVATIONS** 

SHEET NO.

A-3.0



٨-4.0

ITEM	FASTENING SCHED  DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER <sup>a,b,c</sup>	SPACING AND LOCATION
		ROOF	
1	BLOCKING BETWEEN CEILING JOIST OR RAFTERS TO TOP PLATE	4-8d BOX (2½"X0.113"); OR 3-8d COMMON (2½"X0.131"); OR 3-10d BOX (3"X0.128"); OR 3-3"X0.131" NAILS.	TOE NAIL
2	CEILING JOIST TO TOP PLATE	4-8d BOX (2 ½ "X0.113"); OR 3-8d COMMON (2 ½"X0.131"); OR 3-10d BOX (3"X0.128"); OR	PER JOIST, TOE NAIL
3	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (SEE SECTION R802.3.1, R802.3.2 AND TABLE R802.5.1 (9)).	3-3"X0.131" NAILS. 4-10d BOX (3 "X0.128"); OR 3-16d COMMON (3 ½"X0.162"); OR 4-3"X0.131" NAILS.	FACE NAIL
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION R802.3.1 ADN R802.3.2 AND TABLE R802.5.1 (9)).	TABLE R802.5.1(9)	FACE NAIL
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1 $\frac{1}{4}$ " X 20 GA. RIDGE STRAP TO	4-10d BOX (3 "X0.128"); OR 3-16d COMMON (3 ½"X0.162"); OR	FACE NAIL EA. RAFTER
6	RAFTER  RAFTER OR ROOF TRUSS TO TOP PLATE	4-3"X0.131" NAILS.  3-16d BOX (3 ½"X0.135"); OR  3-10d COMMON (3"X0.148"); OR  4-10d BOX (3 "X0.128"); OR	2 TOE NAIL ON ONE SIDE AND 1 TOE N ON OPPOSITE SIDE OF EACH RAFTER (
7	ROOF RAFTER TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	4-3"X0.131" NAILS. 4-16d (3½"X0.135"); OR 3-10d COMMON (3"X0.148"); OR 4-10d BOX (3 "X0.128"); OR 4-3"X0.131" NAILS. 3-16d BOX (3½"X0.135"); OR 2-16d COMMON (3½"X0.162"); OR 3-10d BOX (3 "X0.128"); OR 3-3"X0.131" NAILS.	TOE NAIL END NAIL
		WALL [16d COMMONS (3 ]: "X0.162"	24" O.C. FACE NAIL
8	STUD TO STUD (NOT AT BRACED WALL PANELS)	10d BOX (3"X0.128"; OR 3"X0.131" NAILS 16d BOX (3"X0.135"); OR	16" O.C. FACE NAIL
9	STUD TO STUD ADN ABUTTING STUDS AT INTERSECTION WALL CORNERS (AT BRACED WALL PANELS.)	6d BOX (3"X0.135"); OR    3"X0.131" NAILS    6d COMMONS (3 ½"X0.162")	12" O.C. FACE NAIL  16" O.C. FACE NAIL
10	BUILT-UP HEADER (2" TO 2" HEADER WITH ½" SPACER)	16d COMMONS (3 ½ X0.162") 16d BOX (3 ½"X0.135")	16" O.C. EACH EDGE FACE NAIL 12" O.C. EACH EDGE FACE NAIL
11	CONTINOUS HEADER TO STUD	5-8d BOX (2 $\frac{1}{2}$ "X0.113"); OR 4-8d COMMON (2 $\frac{1}{2}$ "X0.131"); OR 4-10d BOX (3 "X0.128"); OR	TOE NAIL
12	TOP PLATE TO TOP PLATE	16d COMMON (3 ½ "X0.162") 10d BOX (3 "X0.128"); OR 3"X0.131" NAILS.	16" O.C. FACE NAIL 12" O.C. FACE NAIL
13	DOUBLE TOP PLATE SPLICE FOR SDCs A-D2 WITH SEISMIC BRACED WALL LINE SPACING <25' DOUBLE TOP PLATE SPLCIE SDCs D0, D1, OR D2; AND BRACED WALL SPACING >= 25'	8-16d COMMON (3 ½"X0.162"); OR 12-16d BOX (3 ½"X0.135") OR 12-10d BOX (3"X0.128") OR 12-3"X0.131" NAILS 12-16d (3 ½"X0.135")	FACE NAIL ON EACH SIDE OF END JO (MINIMUM 24" LAP SPLICE LENGTH EA SIDE OF END JOINT)
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 ½"X0.162") 16d BOX (3 ½"X0.135") OR	16" O.C. FACE NAIL 12" O.C. FACE NAIL
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANELS)	3"X0.131 NAÎLS 3-16d BOX (3 ½"X0.135") OR 2-16d COMMON (3 ½"X0.162") OR 4-3"X0.131" NAILS	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL
16	TOP OR BOTTOM PLATE TO STUD	4-8d BOX (2½"X0.113) OR 3-16d BOX (3½"X0.135") OR 4-8d COMMON (2½"X0.131") OR 4-10d BOX (3"X0.128") OR 4-3"x0.131" NAILS 3-16d BOX (3½"X0.135") OR 2-16d COMMON (3½"X0.162") OR 3-10d BOX (3"x0.128") OR	TOE NAIL
17	TOP PLATES, LAPS AT CORNERS AND INSTERSECTIONS	3-3"X0.131" NAILS 3-10d BOX (3"X0.128") OR 2-16 d COMMON (3 ½"X0.162") OR	FACE NAIL
18	I" BRACE TO EACH STUD AND PLATE	3-3"X0.131" NAILS 3-8d BOX (3"X0.128") OR 2-8d COMMON (2½"X0.162") OR	FACE NAIL
19	1" X 6" SHEATHIGN TO EACH BEARING	2-10d BOX (3" X 0.128") 3-8d BOX (3"X0.128") OR 2-8d COMMON (2½"X0.162") OR 2-10d BOX (3" X 0.128")	FACE NAIL
20	1"X8" AND WIDER SHEATHIGN TO EACH BEARING	3-8d BOX (3"X0.128") OR 3-8d COMMON (2 ½"X0.162") OR	FACE NAIL
		β-10d BOX (3" X 0.128") FLOOR	1
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8d BOX (2 ½"X0.113) OR 3-8d COMMON (2 ½"X0.131") OR 3-10d BOX (3"X0.128") OR 3-3"x0.131" NAILS	TOE NAIL
22	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATION ALSO)	8d COMMON (2 ½"X0.113") 8d COMMON (2 ½"X0.113") OR 10d BOX (3"X0.128") OR	4" OC TOE NAIL 6" OC TOE NAIL
23	1" X 6" SUBFLOOR OR LESS TO EACH JOIST	3"X0.131" NAILS 3-8d BOX (2½"X0.113") OR 2-8d COMMON (2½"X0.131") OR 3-10d BOX (3"X0.128") OR	FACE NAIL
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16d BOX (3 ½"X 0.135") OR 2-16d COMMON (3 ½"X0.162")	BLIND AND FACE NAIL
25	2" PLANKS (PLAN & BEAM - FLOOR & ROOF)	3-16d BOX (3 ½"X 0.135") OR 2-16d COMMON (3 ½"X0.162")	AT EACH BEARING, FACE NAIL
26	BAND OR RIM JOIST TO JOIST	3-16d COMMON (3 ½"X0.162:) 4-10d BOX (3"X0.128") OR 4-3"X0.131" NAILS	END NAIL
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	20d COMMON (4"X0.192") OR 10d BOX (3"X0.128") OR 3"X0.131" NAILS. 10d BOX (3"X0.128") OR 3"X0.131 NAILS	NAIL EACH LAYER AS FOLLOWS: 32" OF TOP AND BOTTOM AND STAGGEERE 24" OC FACE NAIL AT TOP AND BOTTOM
·		AND: 2-20d COMMON (4"X0.192") OR 3-10d BOX (3"X0.128") OR 3-3"X0.131" NAILS	STAGGERED ON OPPOSITE SIDES  FACE NAIL AT ENDS ADN AT EACH SPI

	29	BRIDGING TO JOIST	2-10d (3"X0.128")	EACH END, TOE NAIL
C	. NAILS ARE	SMOOTH-COMMON, BOX OR DEFORMED SHANK	S EXCEPT WHERE OTHERWISE STATED.	NAILS USED FOR FRAMIGN AND
	SHEATHING	G CONNECTIONS SHALL HAVE MINIMUM AVERAG	E BENDING YIELD STRENGTHS AS SHOV	vn: 80ksi for shank diamerer
	OF 0.192" (	(20d COmmon Nails), 90KSI FOR SHANK DIAMETE	ER LARGER THAN 0.142: BUT NOT LARG	GER THAN 0.177" AND 100KSI FOR
	Shank Di <i>a</i>	AMETERS OF 0.142 " OR LESS.		

-16d BOX (3 ½"X0,135) OR

I-10d BOX (3"X0.128") OR

3-16d COMMON (3 ½"X0.162") OR

AT EACH JOIST OR RAFTER, FACE NAIL

b. STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM  $\frac{7}{16}$ " ON DIAMETER CROWN WIDTH.

LEDGER STRIP SUPPORTING JOIST OR RAFTER

- c. NAILS SHALL BE SPACED AT NO MORE THAN 6" OC AT ALL SUPORTS WHERE SPANS ARE 48" OR GREATER.
- d. FOUR-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANESL ASHALL BE APPLIED VERTICALLY.
- e. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2).
- f. Where the ultimate design wind speed is 130mHp or less, nails for attachign wood structural panel roof SHEATHING TO GABLE END WALL FRAMIGN SHALL BE SPACED 6" O.C. WHERE THE ULTIMATE DESIGN WIND SPEED IS GREATER THAN 130MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMIDIATE SUPPORTS SHALL BE SPACED 6" OC.. FOR MINIMUM 48" DISTANCE FROM RIDGES, EAVES ADN GALBE END WALLS; AND 4" O.C. TO GABLE END WALL FRAMING.
- g. GYPSUM SHEATHING SHALL CONFROM TO ASTM C1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C208.
- h. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMÉBER SAND REQURIED BLOCKING AND AT FLOOR PERIMETERS ONLY SPACING ON ROOF SHETAHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUREIS BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHIGN PANELS EDGES PERMIDEICULAR TO THE FRAMIGN MEMBERS NEED TO NO BE PROVIDED EXCEPT AS REQURIED B OTHER PROVISION OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMIGN MEMBERS OR SOLID BLOCKING.
- WEHRE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM THE CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQURIED.

### **SOILS & FOUNDATION**

- THE FOUNDATION DESIGN IS BASED ON MINIMUM BEARING CAPACITY AS PER CBC 2022 EQUAL TO 1500 PSF. . THE ENGINEER OF RECORD MUST BE INFORMED OF ANY CHANGES IN DESIGN CRITERIA MADE BY THE SOIL
- ENGINEER IN THE COURSE OF CONSTRUCTION.
- 3. ALL FOOTINGS AND SLABS SHALL BE FOUNDED ON FIRM UNDISTURBED NATURAL SOILS OR COMPACTED FILL. 4. ALL COMPACTED FILL SHALL BE PLACED IN AN APPROVED MANNER WITH A MINIMUM DENSITY OF 90% OF THE
- . SYSTEM AND ALL DRAINAGE SHALL BE CONDUCTED TO THE STREET IN AN ACCEPTABLE MANNER AND IN A NON-EROSIVE DEVICE.
- . REFER TO FOUNDATION PLANS, NOTES & DETAILS FOR ADDITIONAL INFORMATION. . ALLOWABLE SOIL BEARING PRESSURE: 1500 PSF INTO UNDISTURBED

MAXIMUM OBTAINABLE IN ACCORDANCE WITH ASTM D 1557.

### CONCRETE NOTES

- ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL BE REGULAR WEIGHT, HARD ROCK TYPE (150 PCF). AGGREGATES SHALL CONFORM TO ASTM C33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05%
- 2. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150 TYPE II.
- . MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH 2,500 PSI., U.N.O. CONTINUOUS INSPECTION BY A DEPUTY INSPECTION IS NOT REQUIRED.
- 4. CONCRETE COVERAGE OF REINFORCING STEEL:
- AT C.L. SLAB SLABS-ON-GRADE CONCRETE CAST AGAINST PERMANENTLY EXPOSED EARTH
- FORMED AND/OR FINISHED SURFACES EXPOSED TO EARTH OR WEATHER. #5 BAR AND SMALLER 1-1/2 INCHES #6 BAR AND LARGER 2 INCHES

STRUCTURAL SLAB 10 DAYS

- . FORMS AND SHORING SHALL REMAIN UNDISTURBED AS FOLLOWS: VERTICAL SURFACES 7 DAYS
- . ALL REINFORCING STEEL, DOWEL, EMBEDDED HARDWARE, HOLD DOWN BOLTS, STRAPS, AND POST BASES MUST BE WELL SECURED IN PROPER LOCATIONS PRIOR TO PLACING CONCRETE.
- . MAXIMUM IN-PLACE DENSITY OF NONSTRUCTURAL LIGHTWEIGHT CONCRETE FLOOR TOPPING IS TO BE 100#/CUBIC

3. REFER TO SLAB PLAN NOTES FOR ADDITIONAL INFORMATION, U.N.O.

### REINFORCING STEEL

- . ALL REINFORCING STEEL: NOTE: #3 AND SMALLER
- ASTM A-615, GRADE 60 #4 AND LARGER . WELDED WIRE FABRIC
- . REINFORCING MARKED CONT. (CONTINUOUS) MAY BE SPLICED WITH LAPS. AS SPECIFIED IN THE CODE, UNLESS OTHERWISE SPECIFIED.

ASTM A-615, GRADE 40

### HARDWARE AND WOOD CONNECTORS

- ALL WOOD FRAMING CONNECTORS SHALL BE SIMPSON "STRONG-TIE". INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH SIMPSON'S PRODUCT AND INSTRUCTION MANUAL/CATALOG C-2013. OR EQUAL OR BETTER,
- ALL THE NAILS / SCREWS / BOLTS LISTED ON THE CATALOG APPLY UNLESS SPECIFICALLY NOTED OTHERWISE. . ALL HOLD DOWN ANCHOR NUTS SHALL BE TIGHTENED JUST PRIOR TO COVERING WALL FRAMING. (LEAVE ENOUGH SPACE BETWEEN THE SILL AND THE HD TO ALLOW FOR SOME SLIP AT POST CONNECTION WHEN TIGHTENING.

# ICC ESR REFERENCE LIST

MANUFACTURER	<u>PRODUCT</u>	<u>DESCRIPTION</u>	ICC#	LARR#
SIMPSON	A34/A35/LTP4	MISC. FRAMING CLIPS	ESR-2606	25716
SIMPSON	НТТ	TENSION TIE	ES-130	25818
SIMPSON	HDU	HOLDOWNS	ESR-2330	25720
SIMPSON	IUS/IUT	HANGERS	ESR-2552	25801
SIMPSON	LUS/HUS	HANGERS	ESR-2549	25807
SIMPSON	MST/LST/ST/CS/CMST	STRAPS	ESR-2105	25713
SIMPSON	SDS/SDWS	WOOD SCREWS	ESR-2236	25711
W.R. GRACE	BITUTHENE	WATERPROOFING		24386
SIMPSON	PC/CC	COLUMN CAP	ESR-2604	24386
SIMPSON	GLB	BEAM SEAT	ESR-2877	25806
HILTI	X-C	SHOT PIN	ESR-1663	25646
CR LAURENCE	GRS	GUARDRAIL SHOE	ESR-3269	
HARDY FRAME	HFX	MANUFACTURED SHEAR WALL	ESR-2089	25759
BOISE CASCADE	BCI	ST2IOL-I	ESR-1336	24999
SIMPSON	GLB	BEAM SEAT	ESR-2877	25806
HILTI	HIT-HY 70	EPOXY FOR MASONRY	ESR-3342	25947
HILTI	HIT-RE 500 SD	EPOXY	ESR-2322	25700
HILTI	KWIKBOLT 3	WEDGE ANCHOR	ESR-1385	25577

- THE WEST COAST LUMBER INSPECTION BUREAU. ALL LUMBER SHALL BE LESS THAN 19% MOISTURE CONTENT FOR ALL CONSTRUCTION. CONTRACTOR SHALL TEST AND MANAGE MOISTURE CONTENT TO ENSURE PROPER MOISTURE CONTENT DURING ALL STORAGE AND HANDLING OPERATIONS.

- D.F. #1
- VERTICAL FRAMING MEMBERS (STUD AND POST)
- 4X4, 4X6 D.F. #2

SHEAR BLOCKING

- MISCELLANEOUS

D.F. #2

- ALL SILL PLATES BEARING ON MASONRY OR CONCRETE FOUNDATION WALL OR SLAB ON GRADE SHALL BE PRESSURE TREATED. IN ACCORDANCE WITH CBC 2304.3.4 SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WITH 5/8 INCH DIAMETER BOLTS AT 4'-0" ON-CENTER MAXIMUM. U.N.O. ON SHEAR WALL SCHED. EMBEDDED 7 INCH MINIMUM IN CONCRETE. BOLTS SHALL HAVE PLATE WASHERS (SEE S.W. SCHEDULE) AND PROPERLY SIZED NUTS. MINIMUM 2 BOLTS PER PLATE. ONE BOLT WITHIN 12 INCHES BUT NO LESS THAN 7 BOLT DIAMETERS, OF PLATE ENI
- WALL FRAMING TO BE 2X STUDS AT 16 INCHES ON-CENTER ON EXTERIOR WALLS AND 2X STUDS AT 16 INCHES ON-CENTER AT INTERIOR WALLS. U.N.O. PROVIDE DOUBLE TOP PLATE ON ALL WALLS WITH MINIMUM 48 INCH LAP SPLICE, UNLESS SPECIFICALLY NOTED ON PLANS, THE MAXIMUM STUD HEIGHT FOR 2X4 EXTERIOR WALL IS 10 FEET,
- PROVIDE 1X6 LET-IN DIAGONAL BRACES AT EACH 25 LINEAR FEET OF NON-SHEAR WALL EACH CORNER, AND ALL MAIN CROSS STUD PARTITIONS. LET-IN TO CROSS 4 STUD SPACES AT 45 DEGREES WHERE POSSIBLE. SOLID
- ALL RATED SHEATHING SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF APA- THE ENGINEERED WOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF PRODUCTS STANDARD PS 1-09, PS2-10 OR APA PRP 108 ALL APA RATED SHEATHING WHICH HAS ANY EDGE OR SURFACE PERMANENTLY EXPOSED TO THE WEATHER SHA BE OF THE EXTERIOR TYPE. APA RATED SHEATHING SHEET LESS THAN 24 INCHES IN ANY DIMENSION SHALL NOT BE

- 5. CARRY ALL MULTIPLE STUDS OR POSTS FROM FLOOR ABOVE DOWN TO FLOOR OR BEAM BELOW. PROVIDE 4X
- . INTERIOR NON-BEARING HEADERS MAY BE 2X4 FLAT. INSTALL 4X4 AT 6' AND 8'.
- . DECK / BALCONY SHEATHING: DO NOT USE OSB UNLESS APPROVED BY EOR./ARCH.
- 3. FOR LAG BOLTS: PROVIDE LEAD HOLES 65% TO 75% OF SHANK DIA. AND FULL DIA, FOR SHANK PORTION. SOAP, PARAFFINOR OR OTHER APPROVED LUBRICANT SHALL BE USED ON THREADS, INSTALLATION SHALL BE BY SCREWING NO HAMMERING. CARE SHALL BE TAKEN TO AVOID OVER TORQUING OF THE BOLT
- 19. ALL MUTI-STUDS ARE TO BE LAMINATED WITH 16D AT 12" O.C.
- ALL BALLOON FRAMED WALLS SHALL BE BRACED TO CONFORM TO CBC 2022 TABLE 2308.5.1
- PROVIDE MINIMUM OF 1/2" EDGE DISTANCE FOR ALL PLYWOOD BOUNDARY NAILING IN SHEAR WALLS, ALL PLYWOOD EDGES SHALL BE BLOCKED. MIN. WIDTH OF BLOCKING TO RECEIVE PLYWOOD NAILING MUST NOT BE
- 24. OMIT SHEATHING B.N. UNDER CMST STRAP. INSTALL CMST OVER SHEATHING, U.N.O.
- 25. HOLDOWN ANCHORS MUST BE TIED IN PLACE PRIOR TO FOUND. INSPECTION.
- THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING.

- ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. FACE GRAIN PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS, FLOOR SHALL HAVE TONGUE AND GROOVE OR BLOCKED EDGES, PLYWOOD SPAN SHALL CONFORM WITH TABLE 2304.7
- 3. ALL DIAPHRAGM AND SHEA WALL NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.
- 4. ALL BOLT HOLES SHALL BE DRILLED  $\frac{1}{32}$ " TO  $\frac{1}{16}$ " OVERSIZED.
- . HOLD-DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.
- FASTENERS FOR PRESERVATIVE-TREATED OR FIRE-RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL IN ACCORDANCE WITH ASTM A15.

### WOOD ROUGH FRAMING

- ALL LUMBER USED FOR STRUCTURAL PURPOSES SHALL BE DOUGLAS FIR-LARCH, GRADED IN ACCORDANCE WITH
- THE MINIMUM GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON PLANS (ALL WOOD MUST BE
- HORIZONTAL FRAMING MEMBERS (JOIST AND BEAMS)
- 4X12 OR SMALLER D.F. #2 4X14 OR LARGER D.F. #1
- STANDARD OR STUD GRADE D.F. #2
- D.F. #2
- 6X6 OR LARGER D.F. #1
- SILL PLATE (GROUND FLOOR) P.T. D.F. #2 SOLE PL. (UPPER FLOORS) D.F. #2 2X TOP PLATE
- NON-STRUCTURAL BLOCKING & BRIDGING UTILITY
- ALL BLOCKING SHALL BE CUT TO FIT FLUSH AGAINST SHEATHING AND OTHER FRAMING MEMBER.
- FOR 2X4 INTERIOR WALL IS 14 FEET, MAXIMUM NON-BEARING STUD HEIGHT FOR 2X6 STUDS IS 20 FEET, U.N.O.
- PROVIDE 0.058" X 1-1/2" WIDE STEEL TIE STRAPS WITH 6-16D NAILS AT EACH SIDE WHERE PLATES ARE INTERRUPTED B' UTILITY PENETRATIONS @ NON-SHEARWALLS. IF PENETRATIONS WILL OCCUR @ SHEAR WALL, NOTIFY THE ENGINEER PRIOR TO STARTING WORK.
- BLOCKING SHALL BE PROVIDED AT ALL HORIZONTAL JOINTS OCCURRING IN BRACED WALLS.
- PROVIDE SINGLE ONE ADDITIONAL JOIST UNDER NON-BEARING PARTITION WHEN WALL PARALLEL W/ JOISTS. ROOF SHEATHING SHALL BE INSPECTED PRIOR TO PLACING INSULATION AND ROOFING.
- USED IN SHEAR WALLS, FLOOR, OR ROOF DIAPHRAGM.
- . FLOOR JOIST ARE NOT DESIGNED TO SUPPORT WATER BEDS. ENGINEER OF RECORD TO BE NOTIFIED IF WATER BEDS
- STRUCTURAL MEMBERS SHALL NOT BE CUT OR NOTCHED UNLESS SPECIFICALLY DETAILED BY THE ENGINEER OF
- FRAMING FOR PRE-FABRICATED FIREPLACE FLUES SHALL BE BALLOON FRAMED FULL HEIGHT USING 2X4 STUDS AT 16" O.C. BRACED AT MID-HEIGHT AND AT THE PLATE HEIGHTS. U.N.O. ON PLAN MAXIMUM UN-BRACED LENGTH IS
- 4. ALL BEAMS TO BE SUPPORTED WITH FULL BEARING MULTISTUD OR POST, U.N.O.
- SOLID BLOCKING AT FLOOR LEVEL TO TRANSFER LOAD FROM UPPER POST TO LOWER POST.

- . PROVIDE PRE-DRILLING WHERE NECESSARY TO AVOID SPLITTING.
- 2. ONLY COMMON NAILS SHALL BE USED FOR ALL WOOD SHEAR WALLS AND SHEAR TRANSFER CONNECTIONS. NAI GUNS USING "CLIPPED HEADS" OR "SINKER" NAILS ARE NOT ACCEPTABLE.
- LESS THAN THE THICKNESS OF BOUNDARY MEMBER AS SPECIFIED ON SHEAR WALL SCHEDULE.
- 26. DIAPHRAGM SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN SO THAT
- 27. NO UTILITY LINE PENETRATION IS ALLOWED AT SHEAR WALLS.

### FOUNDATION & FRAMING NOTES

- HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRES APPROVED WASHERS: AND HOLD-DOWNS SHALL BE FINGER TIGHT AND ½ WRENCH TURN JUST PRIOR TO COVERING THE WOOD
- FRAMING. 2305.5 OF THE BUILDING CODE.

2. CEILING LOAD

3. SOIL BEARING CAPACITY

1,500 PSF

- D DEFAULT
- . SEISMIC DESIGN CATEGORY
- WIND SPEED
- 85 VMPH, EXPOSURE B FLOOD ZONE

ZONE X

CITY OF PICO RIVERA **COMMUNITY & ECONOMIC** 

DEVELOPMENT DEPARTMENT

6615 PASSONS BLVD.

PICO RIVERA, CA 90660

PHONE: (562) 801-4332

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DATE: 1 / 1 / 2025

PLASTICITY INDEX

**POST TENSION** 

REVISION

ROOF RAFTER

SHEATHING

SOLE PLATE NAILING

SIMILAR

SINKER(S)

SQUARE

SQUASH

STANDARD

TOP OF

SHEAR WALL

TOP OF BEAM

TOP OF WALL

TRIANGULAR STRAND LUMBER

UNIFORM BUILDING CODE

UNLESS NOTED OTHERWISH

WELDED WIRE MESH

TOP PLATE

TRIMMER

TYPICAL

WITH

WITHOUT

TRUSS

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

PARALLEL STRAND LUMBER

PLATE

PANFI

PLYWD PLYWOOD

SHTG

SNK(S)

l www

W/O

### ALL WORK TO CONFORM TO THE 2022 CBC, 2022 CRC AND CITY OF PICO RIVERA AMENDMENTS.

ANCHOR BOLT

**BOTTOM EACH WAY** 

**BOUNDARY NAILING** 

BOTTOM OF BEAM

BOTTOM OF WALL

CALIFORNIA BUILDING CODE

ADDITIONAL

ALTERNATE

BLOCKING

BOTTOM OF

BEARING

BOTTOM

BETWEEN

CEILING

DOUBLE

CONCRETE

DOUGLAS FIR

DECK JOIST

EXPANSION INDEX

**EMBEDMENT** 

**EACH WAY** 

EDGE NAILING

DEEP

DROP

EACH

BETTER

CENT./ C CENTER LINE

ABOVE

BLOCK

BEAM

ADD'L

BLKG

BOB

BOW

BRG

BTM

BTWN

CONC

**EMBED** 

DR

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, CONDITIONS AT THE JOBSITE, AND TO CROSS CHECK ALL DETAILS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL MECHANICAL ELECTRICAL, AND/OR CIVIL DRAWINGS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

**GENERAL NOTES** 

STRUCTURAL ABBREVIATIONS

INTERNATIONAL BUILDING CODE

LAMINATED STRAND LUMBER

LAMINATED VENEER LUMBER

FWB FNGINFFRED WOOD BEAM

EXTERIOR

FDN FOUNDATION

FLOOR

FNGR FINGER

GLB

HDR

HGR

MAX

MFR

MPH

MULT

FRMG FRAMING

FEET

GAGE

GIU-I AM BEAM

GIRDER TRUSS

INFORMATION

HEADER

HANGER

INTERIOR

KING STUD

MAXIMUM

MINIMUM

MULTIPLE

ON CENTER

OVER

MANUFACTURER

MILES PER HOUR

JOIST

FROM ABOVE

FULL HEIGHT

FLOOR JOIST

- FLOOR AND WALL OPENINGS, SLEEVES, VARIATIONS IN STRUCTURAL SLAB ELEVATIONS, DEPRESSED AREAS AND ALL OTHER ARCHITECTURAL MECHANICAL, ELECTRICAL, AND/OR CIVIL REQUIREMENTS MUST BE COORDINATED BEFORE THE CONTRACTOR PROCEEDS WITH
- IN ALL CASES WHERE A CONFLICT MAY OCCUR SUCH AS BETWEEN ITEMS INCLUDED IN THE SPECIFICATIONS AND NOTES ON THE DRAWINGS OR BETWEEN GENERAL NOTES AND SPECIFIC DETAILS, THE ENGINEER SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT
- DETAIL MARKED "TYPICAL" SHALL APPLY IN ALL SIMILAR CASES UNLESS SPECIFICALLY INDICATED OTHERWISE. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE
- EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE NOTED OR SHOWN IN THE PLANS OR SPECIFICATIONS. ALL PHASES OF WORKMANSHI AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION, AS WELL AS ALL APPLICABLE STATE AND LOCAL ORDINANCES
- IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
- THE PRECISE DIMENSIONS AND LOCATIONS OF ALL DOOR AND WINDOW OPENINGS SHALL BE DETERMINED FROM THE ARCHITECTURAL DRAWINGS; OTHER FLOOR, WALL AND ROOF OPENINGS AS REQUIRED BY MECHANICAL ELECTRICAL OR SIMILAR REQUIREMENTS SHALL BE VERIFIED FROM SHOP DRAWINGS, EQUIPMENT DATA, ETC., AS REQUIRED.
- THE CONSTRUCTION DOCUMENT REPRESENTS A FINISHED PRODUCT. UNLESS NOTED OTHERWISE, IT DOES NOT INDICATE THE METHOD OF CONSTRUCTION, TEMPORARY BRACING, SHORING AND TEMPORARY SUPPORT FOR ANY STRUCTURAL COMPONENTS AND FOR CONSTRUCTION LOAD IMPOSED BY CONSTRUCTION EQUIPMENT AND / OR ARISEN DUE TO THE WEIGHT OF THE STORED CONSTRUCTION materials. The contractor is solely responsible for the construction means, methods and procedures.
- ). ALL WORK OF THE CONTRACTOR, SUB-CONTRACTORS, AND BUILDER SHALL CONFORM TO CURRENT GOOD PRACTICES. NOT ALL ASPECTS OF GOOD PRACTICES ARE SHOWN ON THE CONTRACT DRAWINGS.

COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATION AND CONSTRUCTION OF DRAFTSTOPS, FIRE BLOCKING, DAMPERS AND

- OTHERS ITEMS NECESSARY FOR FIRE PROTECTION. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATION AND CONSTRUCTION. OF FLASHING, BLOCKING, EXTERIOR FINISHES, TREATMENTS OR OTHER MATERIAL REQUIRED FOR DAMPPROOFING OR MOISTURE CONTROL FOR ANY PRE-MANUFACTURED PRODUCTS OR MATERIALS OF CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIA WITH AND FOR PROPER EXECUTION OF MANUFACTURER'S INSTRUCTIONS, REQUIREMENTS AND CONDITIONS OF APPROVAL PRIOR TO
- 3. ALL OF THE WOOD FRAMING STRUCTURAL COMPONENTS SPECIFIED ON THE PLAN SHALL BE PROTECTED FROM WATER/MOISTURE OF THE ENGINEER OF RECORD AND NOT DETAILED. REFER TO THE ARCHITECTURAL DOCUMENTS AND THE BUILDING CODE FOR WATER /
- MOISTURE PROOFING METHODS AND FIRE PROOFING DETAILS. . THERE SHALL BE NO TRENCHES OR EXCAVATIONS 5 FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND: OR OBTAIN
- NECESSARY PERMIT FROM STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE ISSUANCE OF A BUILDING OR GRADING 5. ANY ASTM DESIGNATIONS SHALL BE AS AMENDED TO DATE.

### STRUCTURAL NOTES

- CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF WIND OR SEISMIC RESISTING SYSTEM OR COMPONENTS LISTED IN THE "STATEMENT OF SPECIAL INSPECTION" SHALL SUBMIT A WRITTEN STATEMENT OR RESPONSIBILITY TO THE CITY INSPECTOR AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM & COMPONENT PER SECTION 1709.1
- CONTINUOUS SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR FIELD WELDING, POST-INSTALLED ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED TO RESIST SUSTAINED TENSION LOADS, SHOTCRETE PLACEMENT, CONCRETE Strength f'c > 2500 psi, Sprayed-on fireproofing, engineered masonry, high-lift grouting, high load diaphragms, Special
- MOMENT-RESISTING CONCRETE FRAMES, AND HELICAL PILE FOUNDATIONS.
- 3. FOUNDATION SILLS SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD. PROVIDE LEAD HOLE 40% - 70% OF THREADED SHANK DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION.
- PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING BOLTING, ANCHORING, AND OTHER FASTENING TO COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM. SPECIAL INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED WHERE THE FASTENER SPACING OF THE SHEATHING IS 4 INCHES ON CENTER OR LESS.
- 6. IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, A SOILS INVESTIGATION REPORT MAY BE REQUIRED

# DESIGN DATA

- LIVE LOAD: 20 PSF
- DEAD LOAD: 5 PS LIVE LOAD: 10 PSF
- 4. SITE SOIL CLASS
- D<sub>2</sub> (REDUCE FROM E PER R301.2.2.1.1

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS. THE RECIPIEN OWNERS AGREE TO RELEASE, HOLD HARMLES AND IDEMNIFY THE CITY OF PICO RIVERA, ITS ELECTED OFFICIALS AND EMPLOYEES AND THE ARCHITECT/ENGINEER WHO PREPARED THE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS. THE USE OF THESE PERMIT READY CONSTRUCTION DOCUMENT DOES NOT ELIMINATE OR REDUCE THE OWNER'S OR

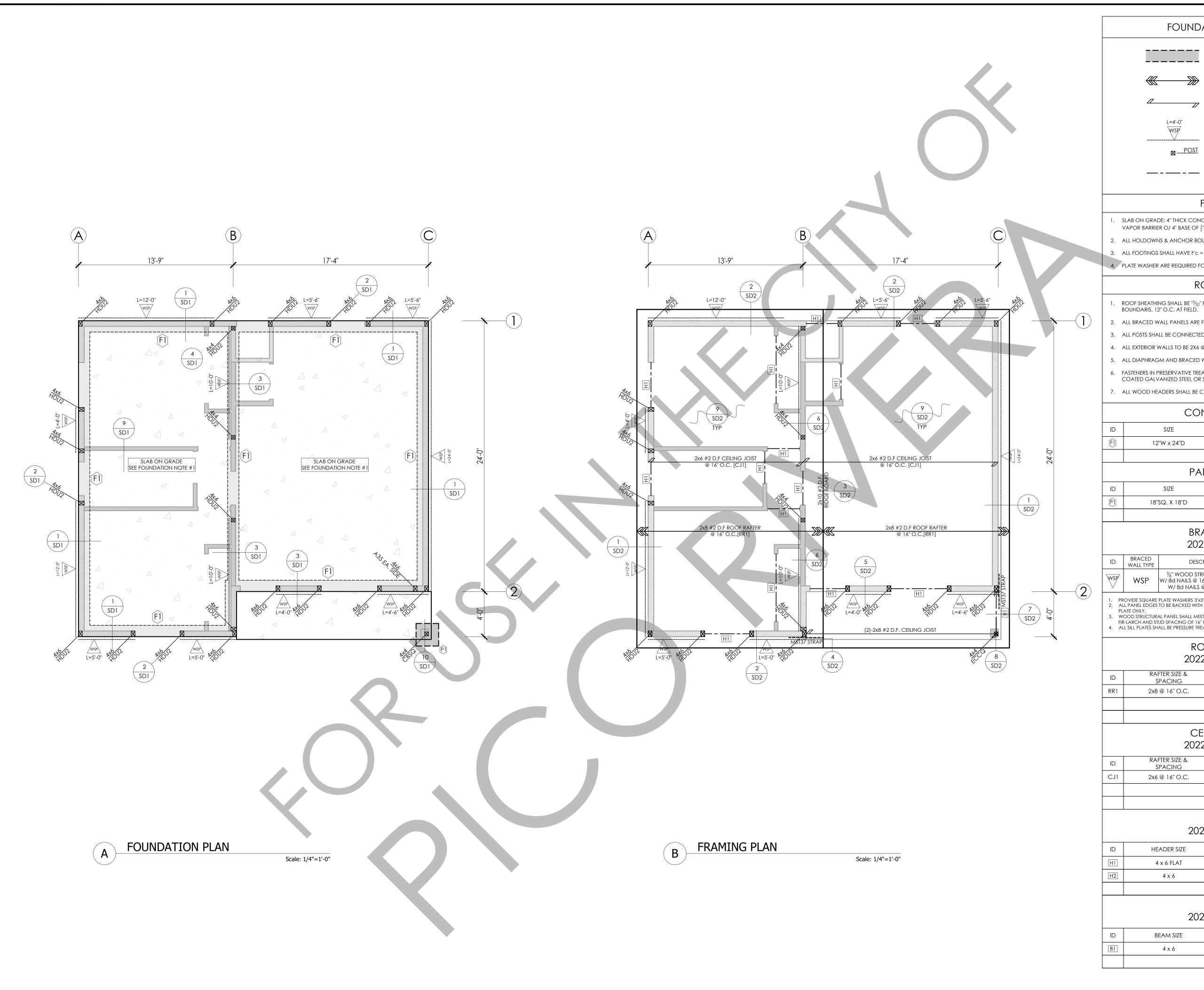
SHEET DESCRIPTION

STRUCTURAL NOTES

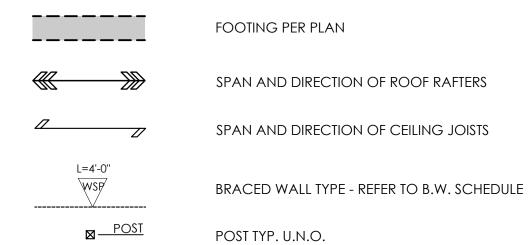
CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY

AND ALL INFORMATION RELEVANT TO THE

RECIPIENT'S WORK AND RESPONSIBILITY ON



### FOUNDATION & FRAMING LEGEND



### FOUNDATION NOTES

BEAM PER PLAN

- 1. SLAB ON GRADE: 4" THICK CONCRETE SLAB W/ #4 REBAR @ 16" O.C. EA. WAY AT MID-DEPTH O/ 10-MIL VAPOR BARRIER O/ 4" BASE OF  $\frac{1}{2}$ " OR LARGER CLEAN AGGREGATE.
- 2. ALL HOLDOWNS & ANCHOR BOLTS SHALL BE SET IN PLACE BY TEMPLATE PRIOR TO FOUNDATION INSPECTION.
- 3. ALL FOOTINGS SHALL HAVE F'C = 2500 PSI U.N.O.
- 4. PLATE WASHER ARE REQUIRED FOR ALL HOLDOWN BRACKETS.

### ROOF FRAMING NOTES

- ROOF SHEATHING SHALL BE  $^{15}$ / $^{32}$ " PLYWOOD, CD-X P11  $^{32}$ / $^{16}$ , WITH 8d COMMON NAILS @ 6" O.C. AT EDGES AND BOUNDARIS, 12" O.C. AT FIELD.
- 2. ALL BRACED WALL PANELS ARE FULL HEIGHT TO THE ROOF.
- 3. ALL POSTS SHALL BE CONNECTED TO SILL PLATE WITH A35 AT EA. SIDE TYP. U.N.O.
- 4. ALL EXTERIOR WALLS TO BE 2X6 @ 16" O.C. DFL STUDS. ALL INTERIOR WALLS TO BE 2X4 @ 16" O.C. DLF STUDS.
- 5. ALL DIAPHRAGM AND BRACED WALL NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.
- 6. FASTENERS IN PRESERVATIVE TREATED WOOD OR FIRE RETARDANT TREATED WOOD SHALL BE OF HOT ZINC COATED GALVANIZED STEEL OR STAINLESS STEEL.
- 7. ALL WOOD HEADERS SHALL BE CONNECTED TO POST OR 2-2X TRIMMERS WITH EPCZ POST CAP U.N.O.

### CONT. FOOTING SCHEDULE

ID	SIZE	REBAR	CONCRETE STRENGTH	
(F)	12"W x 24"D	(2) - #4 TOP & BOTTOM	2500 PSI	
PAD FOOTING SCHEDULE				

ID	SIZE	REBAR	CONCRETE STRENGTH
Pì	18"SQ. X 18"D	(3) - #4 EA. WAY	2500 PSI

### BRACED WALL SCHEDULE 2022 CRC TABLE R602.10.4

Ū	BRACED	DESCRIPTION	FNDN. SILL PLATE	A35/LTP4 FRAMING
WALL TYPE	DESCRI HON	& A.B. SPACING	CLIP O.C. SPACING	
WSP	WSP	3/8" WOOD STRUCTURAL PANEL W/ 8d NAILS @ 16" O.C. BOUNDARY	2x PLATE	16"
	WSF	W/8d NAILS @ 12" O.C. FIELD	5⁄8" DIAM. A.B. AT 48" O.C.	10

- PROVIDE SQUARE PLATE WASHERS 3"X3"X\u00e4" THK. FOR 5\u00e4" DIAMETER BOLTS

  ALL PANEL EDGES TO BE BACKED WITH 2X OR WIDER FRAMING MEMBER. ALL TOP PLATE NAILING TO BE INTO "UPPER" TOP PLATE ONLY.
- WOOD STRUCTURAL PANEL SHALL MEET THE REQUIREMENTS OF STANDARD 23-2 OR 23-3. THESE VAULES ARE FOR DOUGLAS FIR-LARCH AND STUD SPACING OF 16" O.C.
   ALL SILL PLATES SHALL BE PRESSURE TREATED DOUGLAS FIR-LARCH.

### ROOF RAFTER SCHEDULE 2022 CRC TABLE R802.4.1(2)

ID	RAFTER SIZE & SPACING	SPECIES AND GRADE	ALLOWABLE SPAN
RR1	2x8 @ 16" O.C.	DOUGLAS FIR-LARCH #2	18'-5"

### CEILING JOIST SCHEDULE 2022 CRC TABLE R802.5.1(1)

ID	RAFTER SIZE & SPACING	SPECIES AND GRADE	ALLOWABLE SPAN
CJ1	2x6 @ 16" O.C.	DOUGLAS FIR-LARCH #2	17'-8"

# HEADER SCHEDULE 2022 CRC TABLE R602.7(1) EXTERIOR LOAD BEARING WALLS

EXTERIOR EO/ID BE/ IRITO TV/ TEES				
D	HEADER SIZE	SPECIES AND GRADE	ALLOWABLE SPAN	
H1	4 x 6 FLAT	DOUGLAS FIR-LARCH #1	3'-1"	
H2	4 x 6	DOUGLAS FIR-LARCH #1	4'-7"	

# HEADER SCHEDULE 2022 CRC TABLE R602.7(3) OPEN PORCHES

ID	BEAM SIZE	SPECIES AND GRADE	ALLOWABLE SPAN
B1	4 x 6	DOUGLAS FIR-LARCH #1	7'-6"

# CITY OF PICO RIVERA COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT 6615 PASSONS BLVD. PICO RIVERA, CA 90660

PHONE: (562) 801-4332

DATE: 1 / 1 / 2025

: - APPROVED , VERA, CA

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PICO

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RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. SHEET DESCRIPTION

FRAMING PLAN & FOUNDATION PLAN

SHEET NO.

S-1.0

