lley View Ave Valley View Ave

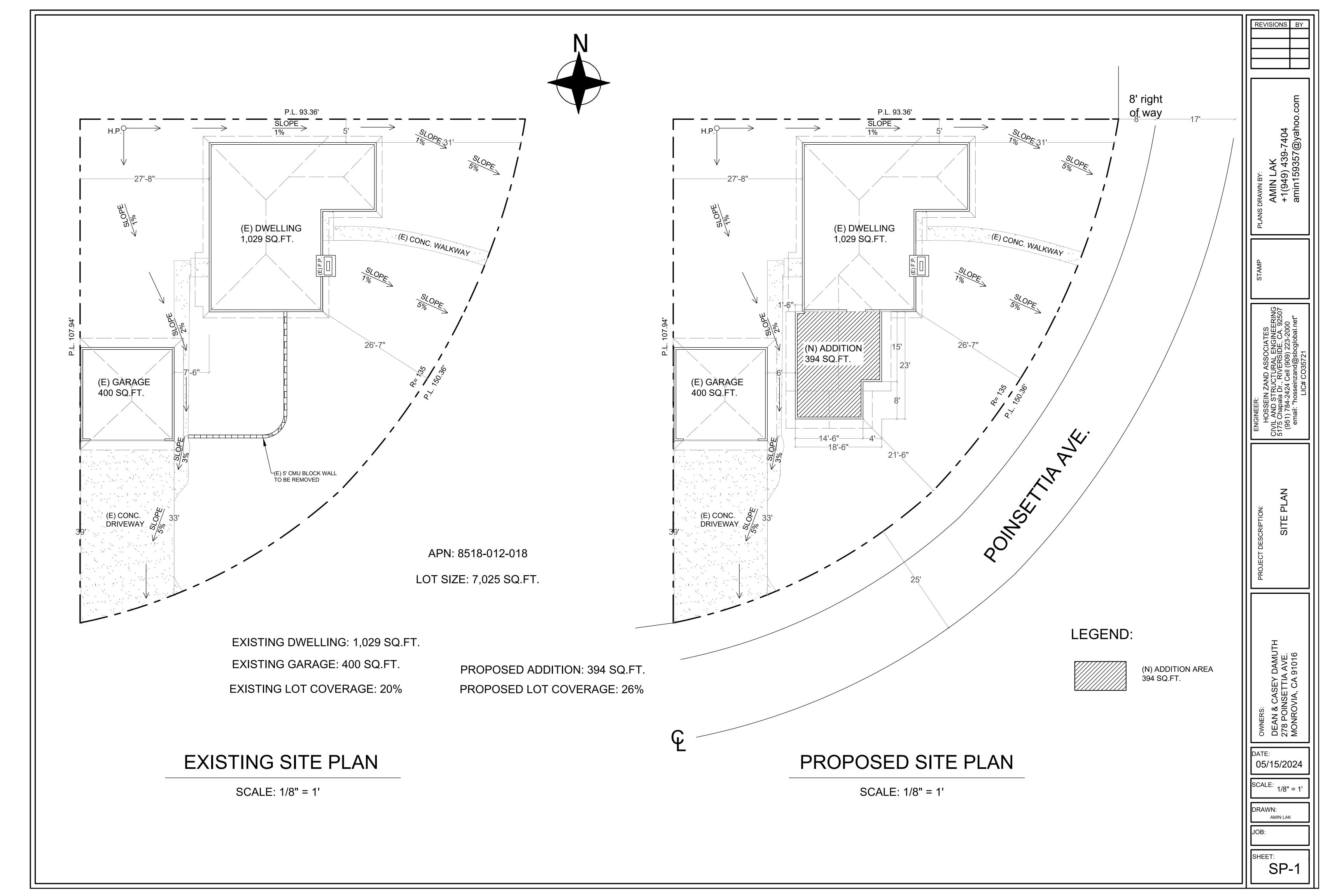
FIRE SPRINKLER SYSTEM: NO	

PROJECT SUMMARY		REV
PROJECT DESCRIPTION: ADDITION	SCOPE OF WORK: - ADDITION OF 394 SQ. FT. INCLUDING A MASTER BEDROOM, MASTER BATHROOM, AND WALK-IN CLOSET.	
OWNER: DEAN & CASEY DAMUTH 278 POINSETTIA AVE. MONROVIA, CA 91016	INDEX OF DRAWINGS	N BY:
BUILDING USE: SINGLE FAMILY RES. OCCUPANCY CLASSIFICATION: R-3 / U TYPE OF CONSTRUCTION: V-B NUMBER OF STORIES: ONE	SHEET# DESCRIPTION: T-1 TITLE PAGE SP-1 SITE PLAN A-0.1 2022 CALIFORNIA GREEN BUILDING	PLANS DRAWN BY:
EXISTING DWELLING: 1,029 SQ.FT. PROPOSED ADDITION: 394 SQ.FT. EXISTING GARAGE: 400 SQ.FT. PROPOSED LOT COVERAGE: 26% EXISTING LOT COVERAGE: 20%	A-0.2 2022 CALIFORNIA GREEN BUILDING A-1 FLOOR & ROOF PLANS A-2 ELEVATIONS A-3 ELECTRICAL PLAN	
LOT SIZE = 7,025 SQ.FT.	SGN STRUCTURAL & GENERAL NOTES S-1 FOUNDATION & FRAMING PLANS	
LEGAL DESCRIPTION		
APN # 8518-012-018 TRACT NO 16229 LOT 47		DESCRIPTION:
CONSULTANTS DRAFTING: AMIN LAK +1(949) 439-7404 amin159357@yahoo.com ENGINEERING: HOSSEIN ZAND ASSOCIATES CIVIL AND STRUCTURAL ENGINEERING 5175 Chapala Dr., RIVERSIDE, CA. 92507 (951) 784-2424 Cell (909) 223-2000 email: "hosseinzand@sbcglobal.net" LIC# CO35721	NOTES: 1- The discharge of pollutants to any storm drainage system is prohibited. No solid waste, petroleum byproducts, soil particulate, construction waste materials, or wastewater generated on construction sites or by construction activities shall be placed, conveyed, or discharged into the street, gutter or drain system. 2- Work shall be installed in accordance with the approved construction documents, and any changes made during construction that are not in compliance with the approved construction documents shall be resubmitted for approval as an amended set of construction documents. CRC R106.4.	PROJECT
2022 CALIFORNIA BUILDING CODE (CBC) 2022 CALIFORNIA RESIDENTIAL CODE (CRC) 2022 CALIFORNIA ELECTRICAL CODE (CEC) 2022 CALIFORNIA MECHANICAL CODE (CMC) 2022 CALIFORNIA PLUMBING CODE (CPC) 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC) 2022 CALIFORNIA FIRE CODE (CFC)	(From north to south) 262 Poinsettia- 32.74-8=24.74 268 Poinsettia- 33.6 -8= 25.6 278 Poinsettia- 33.61-8= 25.61 (largest-remove from calc.) 272 Poinsettia- 30.37-8= 22.37 204 Poinsettia- 21.04-8 =13.04 (Smallest-remove from calc.) AVG (72.71)/3= 24.24	DATE 05 SCAL

VISIONS BY

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05/15/2024



2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in 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. **301.1.1 Additions and alterations. [HCD]** The mandatory provisions of Chapter 4 shall be applied 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. The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section. 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 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. 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 high-rise buildings, no banner will be used. **SECTION 302 MIXED OCCUPANCY BUILDINGS 302.1 MIXED OCCUPANCY BUILDINGS.** In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable. 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 Chapter 4 and Appendix A4, as applicable. DIVISION 4.1 PLANNING AND DESIGN **ABBREVIATION DEFINITIONS:** Department of Housing and Community Development California Building Standards Commission Division of the State Architect. Structural Safety OSHPD Office of Statewide Health Planning and Development Low Rise High Rise Additions and Alterations **CHAPTER 4 RESIDENTIAL MANDATORY MEASURES SECTION 4.102 DEFINITIONS** The following terms are defined in Chapter 2 (and are included here for reference) 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. WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls 4.106 SITE DEVELOPMENT **4.106.1 GENERAL.** Preservation and use of available natural resources shall be accomplished through evaluation 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. 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site. 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 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. 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. (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 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: Water collection and disposal systems 3. French drains Water retention gardens 5. Other water measures which keep surface water away from buildings and aid in groundwater **Exception**: Additions and alterations not altering the drainage path. 4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625. 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and 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 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 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 parking facilities. 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 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 proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or

concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere

208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit

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

location shall be permanently and visibly marked as "EV CAPABLE".

4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent

protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination

overcurrent protective device.

accordance with the California Electrical Code.

4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities. When parking is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the 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 applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 4.106.4.2.1Multifamily development projects with less than 20 dwelling units; and hotels and motels with less 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 of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical 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. 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. 1. When EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number 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 a. Construction documents are intended to demonstrate the project's capability and capacity for facilitating 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. 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 dwelling unit when more than one parking space is provided for use by a single dwelling unit. Exception: Areas of parking facilities served by parking lifts. 4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more sleeping units or guest rooms. 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 of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical 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. 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. 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 reduced by a number equal to the number of EV chargers installed over the five (5) percent required. a. Construction documents shall show locations of future EV spaces. 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. 2.EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power dwelling unit when more than one parking space is provided for use by a single dwelling unit. Exception: Areas of parking facilities served by parking lifts. 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 area and shall be available for use by all residents or guests. When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required an automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall 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. 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 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 4.106.4.2.2.1.1 Location. EVCS shall comply with at least one of the following options: 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. 2. The charging space shall be located on an accessible route, as defined in the California Building Code, Exception: Electric vehicle charging stations designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section 4.106.4.2.2.1.2, Item 3. 4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions The charging spaces shall be designed to comply with the following: 1. The minimum length of each EV space shall be 18 feet (5486 mm). 2. The minimum width of each EV space shall be 9 feet (2743 mm). 3.One in every 25 charging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is a.Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction 4.106.4.2.2.1.3 Accessible EV spaces. 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 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

1. Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch

raceway termination point, receptacle or charger location, as applicable. The service panel and/ or subpanel shall have a 40-ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device

circuit. The raceway 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 enclosure in close

proximity to the location or the proposed location of the EV space. Construction documents shall identify the

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

2.Multiple EV spaces required. Construction documents shall indicate the raceway termination point and the

electrical load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required

raceways and related components that are planned to be installed underground, enclosed, inaccessible or in

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

installed, or space(s) reserved to permit installation of a branch circuit overcurrent protective device.

construction in accordance with the California Electrical Code.

oncealed areas and spaces shall be installed at the time of original construction.

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 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 I.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing 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 altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. 1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use. DIVISION 4.2 ENERGY EFFICIENCY **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** 4.303 INDOOR WATER USE 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, Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate 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. 4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush. 4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush. 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 WaterSense Specification for Showerheads. **4.303.1.3.2 Multiple showerheads serving one shower**. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead. 4.303.1.4 Faucets 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 not be less than 0.8 gallons per minute at 20 psi. 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. 4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver **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 to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per Note: Where complying faucets are unavailable, aerators or other means may be used to achieve 4.303.1.4.5 Pre-rinse spray valves. When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7) and shall be equipped with an integral automatic shutoff. FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A). TABLE H-2 STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019 MAXIMUM FLOW RATE (gpm) [spray force in ounce force (ozf)] Product Class 1 (≤ 5.0 ozf) 1.00 Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf) Product Class 3 (> 8.0 ozf) 1.28 Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray values manufactured on or after January 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)[113 grams-force(gf)] 4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the California Plumbing Code. I.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. THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER. TABLE - MAXIMUM FIXTURE WATER USE **FIXTURE TYPE FLOW RATE** SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 LAVATORY FAUCETS (RESIDENTIAL) LAVATORY FAUCETS IN COMMON & PUBLIC 0.5 GPM @ 60 PSI

1.8 GPM @ 60 PSI

0.2 GAL/CYCLE

1.28 GAL/FLUSH

0.125 GAL/FLUSH

USE AREAS

KITCHEN FAUCETS

WATER CLOSET

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING VERIFICATION WITH THE FULL CODE.

METERING FAUCETS

RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, 4.304 OUTDOOR WATER USE 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. 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/ DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE 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 openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING **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 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance. . Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably 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. 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency. 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. 2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or 3. Identify diversion facilities where the construction and demolition waste material collected will be 4. Identify construction methods employed to reduce the amount of construction and demolition waste 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both **1.408.3 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 Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company. 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in 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 per square foot of the building area, shall meet the minimum 65% construction waste reduction 4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4.. 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 documenting compliance with this section. 2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). 4.410 BUILDING MAINTENANCE AND OPERATION 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: 1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure. 2. Operation and maintenance instructions for the following: a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment. b. Roof and yard drainage, including gutters and downspouts. c. Space conditioning systems, including condensers and air filters. d. 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. 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. 6. Information about water-conserving landscape and irrigation design and controllers which conserve 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, painting, grading around the building, etc. 9. Information about state solar energy and incentive programs available. 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. 12. Information and/or drawings identifying the location of grab bar reinforcements. **4.410.2 RECYCLING BY OCCUPANTS.** Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the 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 ordinance, if more restrictive. **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 | DIVISION 4.5 ENVIRONMENTAL QUALITY **SECTION 4.501 GENERAL** The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.

SECTION 4.502 DEFINITIONS

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

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

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

structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated

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

wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section

DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for

combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

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

5.102.1 DEFINITIONS

REVISIONS I

05/15/2024

(SCALE: 1/4" = 1'

DRAWN:

AMIN LAK

SHEET:

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEE

NOT APPLICABLE RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

California 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 **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 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). **4.503.1 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. I.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section. 4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks 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. 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. **4.504.2.2 Paints and Coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss

the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources 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

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:

- 1. Manufacturer's product specification. Field verification of on-site product containers.
- TABLE 4.504.1 ADHESIVE VOC LIMIT_{1,2} (Less Water and Less Exempt Compounds in Grams per Liter) ARCHITECTURAL APPLICATIONS VOC LIMIT INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES 150 OUTDOOR CARPET ADHESIVES 100 WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES COVE BASE ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVE 70 100 STRUCTURAL GLAZING ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES 250 OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING 510 490 CPVC WELDING ABS WELDING 325 PLASTIC CEMENT WELDING 250 550 ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE SPECIAL PURPOSE CONTACT ADHESIVE 250 STRUCTURAL WOOD MEMBER ADHESIVE 140 250 TOP & TRIM ADHESIVE SUBSTRATE SPECIFIC APPLICATIONS 30 METAL TO METAL PLASTIC FOAMS POROUS MATERIAL (EXCEPT WOOD) FIBERGLASS

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETH	ΗEF
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 Grams 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

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT

ARCHITECTURAL COATINGS2,3

COMPOUNDS

COATING CATEGORY

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

- 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.

N/A RESPON PARTY	ı.		Υ	, N	/A RES
	TABLE 4.504.5 - FORMALDEHYDE LI				
	MAXIMUM FORMALDEHYDE EMISSIONS IN PART	CURRENT LIMIT			
	HARDWOOD PLYWOOD VENEER CORE	0.05] [1
	HARDWOOD PLYWOOD COMPOSITE CORE	0.05			
	PARTICLE BOARD	0.09			
	MEDIUM DENSITY FIBERBOARD THIN MEDIUM DENSITY FIBERBOARD2	0.11			
	1. VALUES IN THIS TABLE ARE DERIVED FROM BY THE CALIF. AIR RESOURCES BOARD, AIR TO MEASURE FOR COMPOSITE WOOD AS TESTED WITH ASTM E 1333. FOR ADDITIONAL INFORMA CODE OF REGULATIONS, TITLE 17, SECTIONS 9	THOSE SPECIFIED OXICS CONTROL IN ACCORDANCE ATION, SEE CALIF.] [<u> </u>
	93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A THICKNESS OF 5/16" (8 MM).	MAXIMUM			
	DIVISION 4.5 ENVIRONMENTAL QUAL 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior Department of Public Health, "Standard Method for the Testing and Eva from Indoor Sources Using Environmental Chambers," Version 1.2, Jan California Specification 01350)	shall meet the requirements of the California shall meet the requirements of the California	าร		
	See California Department of Public Health's website for certification pro	ograms and testing labs.			
	https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages	· ·			
	4.504.3.1 Carpet cushion. All carpet cushion installed in the buil California Department of Public Health, "Standard Method for the Chemical Emissions from Indoor Sources Using Environmental C (Emission testing method for California Specification 01350)	Testing and Evaluation of Volatile Organic	е		
	See California Department of Public Health's website for certificat				
	https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ 4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the re				
	4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is	·	a		
	resilient flooring shall meet the requirements of the California Departme Testing and Evaluation of Volatile Organic Chemical Emissions from Inc Version 1.2, January 2017 (Emission testing method for California Spec See California Department of Public Health's website for certification pro	nt of Public Health, "Standard Method for the door Sources Using Environmental Chambers ification 01350)] [<u> </u>
	hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Page	-			
	4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particl composite wood products used on the interior or exterior of the buildings formaldehyde as specified in ARB's Air Toxics Control Measure for Comby or before the dates specified in those sections, as shown in Table 4.5	s shall meet the requirements for nposite Wood (17 CCR 93120 et seq.),			
	4.504.5.1 Documentation. Verification of compliance with this so by the enforcing agency. Documentation shall include at least one				
	 Product certifications and specifications. Chain of custody certifications. Product labeled and invoiced as meeting the Composit CCR, Title 17, Section 93120, et seq.). Exterior grade products marked as meeting the PS-1 o Wood Association, the Australian AS/NZS 2269, Europ 0121, CSA 0151, CSA 0153 and CSA 0325 standards. 	or PS-2 standards of the Engineered opean 636 3S standards, and Canadian CSA			
	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 04.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation	•			
	California Building Code, Chapter 19, or concrete slab-on-ground floors California Residential Code, Chapter 5, shall also comply with this section	required to have a vapor retarder by the			
	4.505.2.1 Capillary break. A capillary break shall be installed in following:	compliance with at least one of the			
	 A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or a vapor barrier in direct contact with concrete and a conshrinkage, and curling, shall be used. For additional in ACI 302.2R-06. Other equivalent methods approved by the enforcing as A slab design specified by a licensed design profession 	ncrete mix design, which will address bleedin formation, see American Concrete Institute, gency.	h g,		
	4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed when	the framing members exceed 19 percent			
	Moisture content shall be verified in compliance with a state of the content shall be determined with either a probe-type moisture verification methods may be approved by the enforce found in Section 101.8 of this code.	or contact-type moisture meter.Equivalent ing agency and shall satisfy requirements			
	 Moisture readings shall be taken at a point 2 feet (610 mm) to of each piece verified. At least three random moisture readings shall be performed of acceptable to the enforcing agency provided at the time of approximately acceptable. 	on wall and floor framing with documentation	nd		
	Insulation products which are visibly wet or have a high moisture contenenclosure in wall or floor cavities. Wet-applied insulation products shall	nt shall be replaced or allowed to dry prior to			
	recommendations prior to enclosure. 4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanicall	ly ventilated and shall comply with the			
	following: 1. Fans shall be ENERGY STAR compliant and be ducted to ter 2. Unless functioning as a component of a whole house ventilati humidity control.				
	 a. Humidity controls shall be capable of adjustment betwee equal to 50% to a maximum of 80%. A humidity control adjustment. b. A humidity control may be a separate component to the integral (i.e., built-in) 	ol may utilize manual or automatic means of			
	Notes:				
	 For the purposes of this section, a bathroom is a room tub/shower combination. Lighting integral to bathroom exhaust fans shall comply 				
	4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heat sized, designed and have their equipment selected using the following r	ting and air conditioning systems shall be nethods:			

acceptable.

ASHRAE handbooks or other equivalent design software or methods.

Equipment Selection), or other equivalent design software or 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),

Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential

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:

- 1. 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. 3. Successful completion of a third party apprentice training program in the appropriate trade.
- 4. Other programs acceptable to the enforcing 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. 2. 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 shall be closely related to the primary job function, as determined by the local agency.

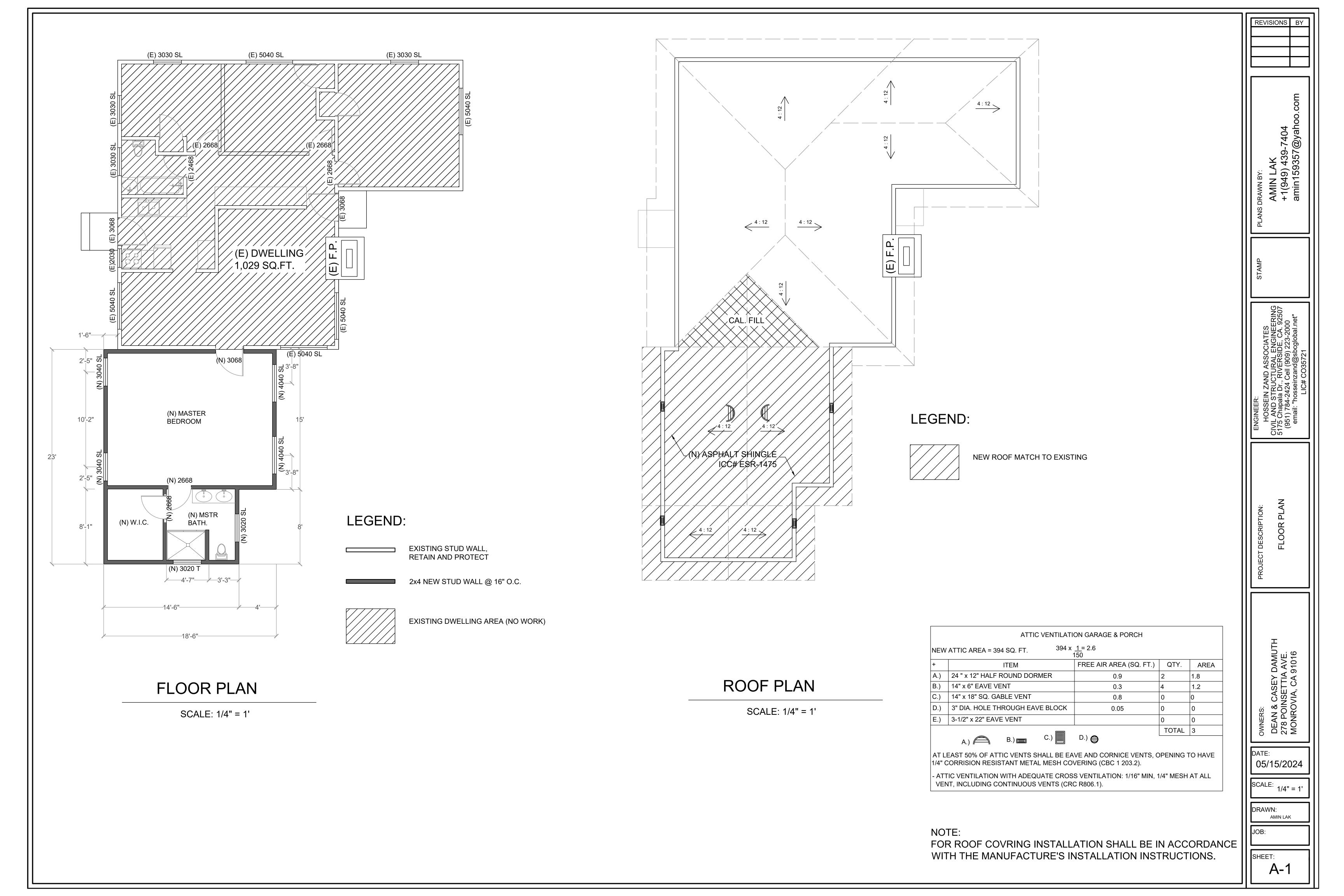
Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

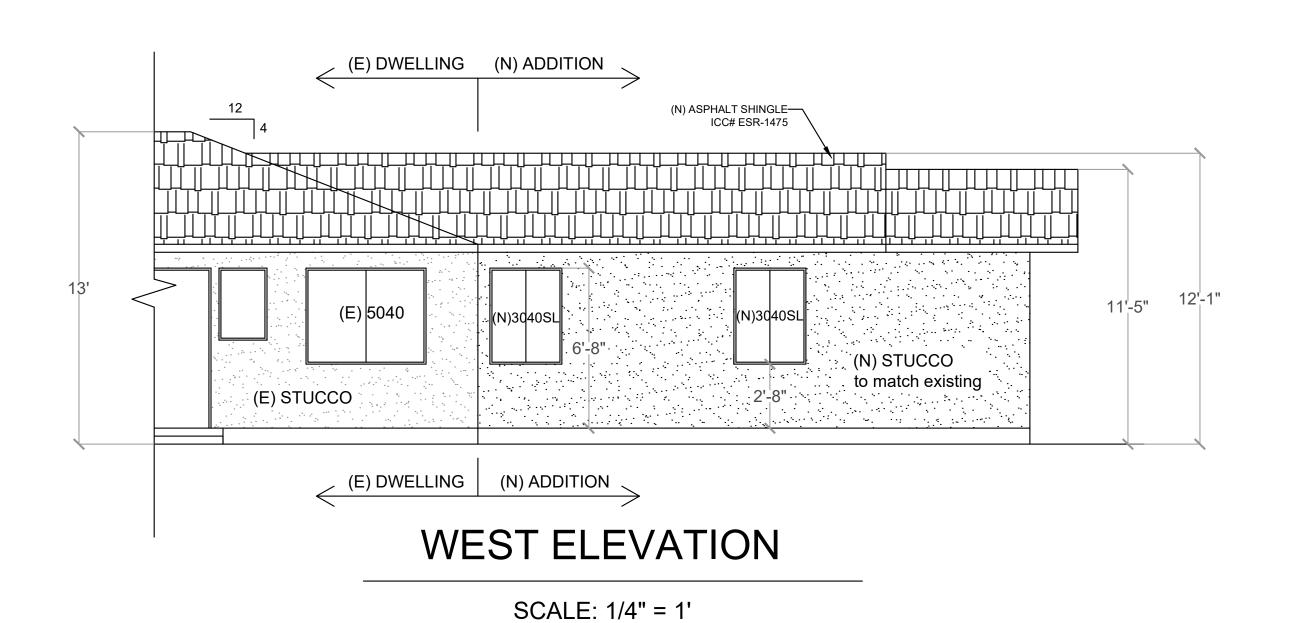
703 VERIFICATIONS

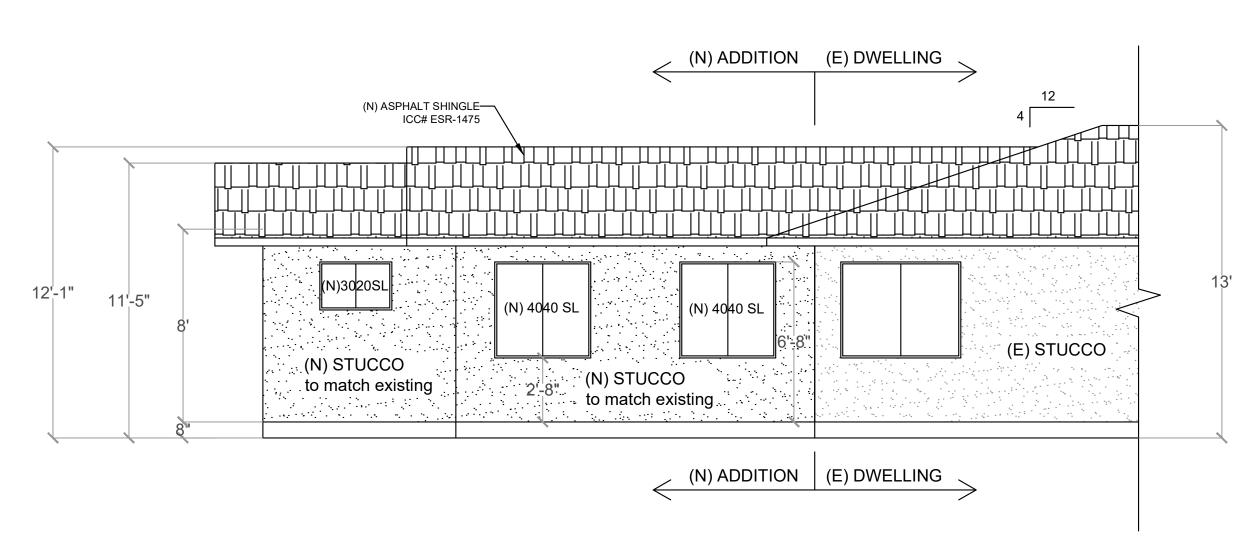
703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. 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.

REVISIONS I

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE FULL CODE.

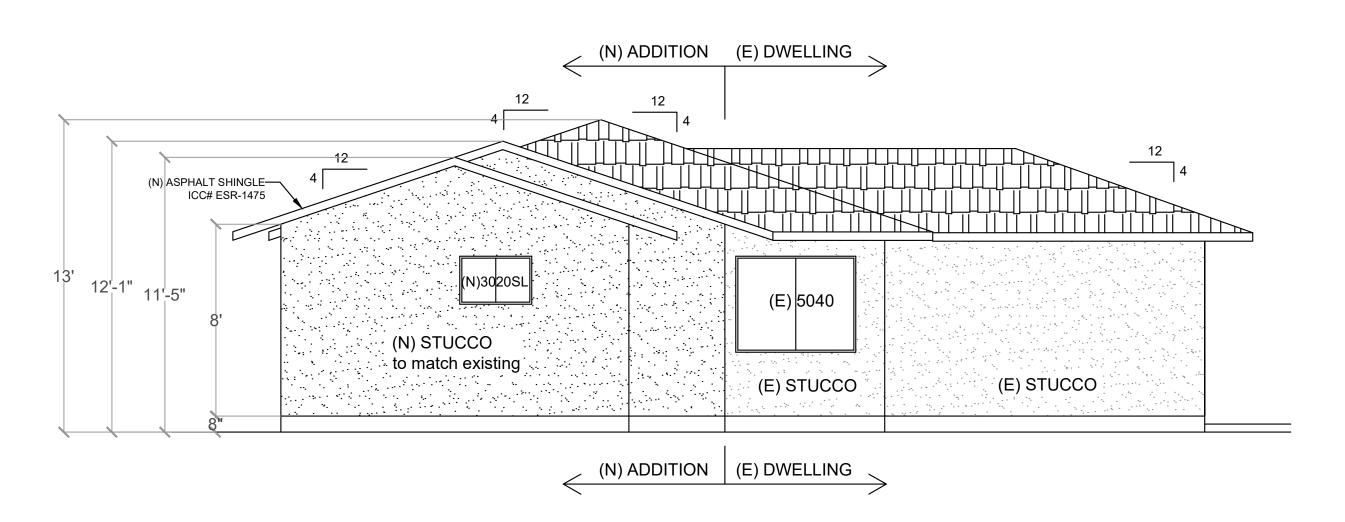






EAST ELEVATION

SCALE: 1/4" = 1'



SOUTH ELEVATION

SCALE: 1/4" = 1'



ICC-ES Evaluation Report

ESR-1475

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 31 13—Asphalt Shingles

REPORT HOLDER:

EVALUATION SUBJECT:

GAF SHINGLE ROOF COVERING SYSTEMS

1.0 EVALUATION SCOPE

Compliance with the following codes:

■ 2018, 2015, 2012, 2009 and 2006 International Building Code® (IBC) ■ 2018, 2015, 2012, 2009 and 2006 International

Residential Code® (IRC) Properties evaluated:

■ Weather resistance

■ Fire classification ■ Wind resistance

2.0 USES

The GAF asphalt shingles described in this report comply with IBC Section 1507.2 and IRC Section R905.2 and are Class A roof coverings when installed as described in this

3.0 DESCRIPTION 3.1 Shingles:

3.1.1 General: The GAF asphalt shingles comply with ASTM D3462, and have been qualified for wind resistance as noted in Section 4.1.2 and Table 1. The shingles are available as three-tab, five-tab and laminated asphalt shingle roof coverings. See Table 1 and Figure 1 for recognized product names and classifications, shingle types, manufacturing locations, overall dimensions, maximum exposure to the weather and fastening details. The shingles are self-sealing by means of adhesive strips located on either the weather side or the underside. See Figure 1 for dimensions, nailing locations and adhesive strip

location for field shingles. 3.1.2 Three-tab Shingles and Five-tab Shingles: Threetab and five-tab shingles are composed of a single layer of

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Reissued October 2021 This report is subject to renewal October 2023.

fiberglass mat, impregnated and coated with asphalt on both sides, and surfaced with mineral roofing granules on the

weather side and a mineral release agent on the underside. 3.1.3 Laminated Shingles: Laminated shingles are composed of multiple thicknesses of coated and surfaced fiberglass mat, cut and bonded together in different patterns. The weather side is surfaced with mineral roofing granules, and the underside is surfaced with a mineral release agent.

3.1.4 Hip and Ridge Cap Shingles: Hip and ridge cap shingles consist of fiberglass mat, impregnated and coated with asphalt on both sides and surfaced with mineral roofing granules on the weather side and a mineral release agent on the back side for use in covering hips and ridges. See Table 2 for product sizes, exposure to the weather and manufacturing locations. See also Figure 2.

3.1.4.1 Royal Sovereign® Ridge Cap Shingles: These ridge cap shingles are field-cut from Royal Sovereign® three-tab strip shingles. The field-cut ridge cap shingles are compatible with any of the GAF shingles recognized in this

3.1.4.2 Z®Ridge Ridge Cap Shingles: These shingles are strips that are scored for separation into four ridge cap shingles. See Figure 2.

3.1.4.3 Seal-A-Ridge® Ridge Cap Shingles, Seal-A-Ridge® Protective Ridge Cap Shingles, Seal-A-Ridge® AS SBS-Modified IR Ridge Cap Shingles, and Seal-A-Ridge® ArmorShield® SBS-Modified IR Ridge Cap Shingles: These shingles are strips that are scored for separation into three ridge cap shingles. Seal-A-Ridge® Ridge Cap Shingles are also labeled as Seal-A-Ridge® Protective Ridge Cap Shingles. Seal-A-Ridge® ArmorShield® Ridge Cap Shingles are also labeled as Seal-A-Ridge® AS SBS-Modified IR Ridge Cap Shingles.

3.1.4.4 Ridglass® Premium Ridge Cap Shingles: These shingles are individual, thick, ultra-high profile ridge cap shingles available in two widths. See Figure 2.

3.1.4.5 Timbertex® Premium Ridge Cap Shingles: These shingles are double layer strips that are scored for separation into three ridge cap shingles.

3.1.4.6 TimberCrest™ Premium SBS-Modified Ridge Cap Shingles: These shingles are individual, thick, ultrahigh profile ridge cap shingles with a bullnose leading edge available in two widths. See Figure 2.

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

Page 1 of 12

DRAWN: AMIN LAK JOB:

05/15/2024

SCALE: 1/4" = 1'

DEAN & CASEY DAMUT 278 POINSETTIA AVE. MONROVIA, CA 91016

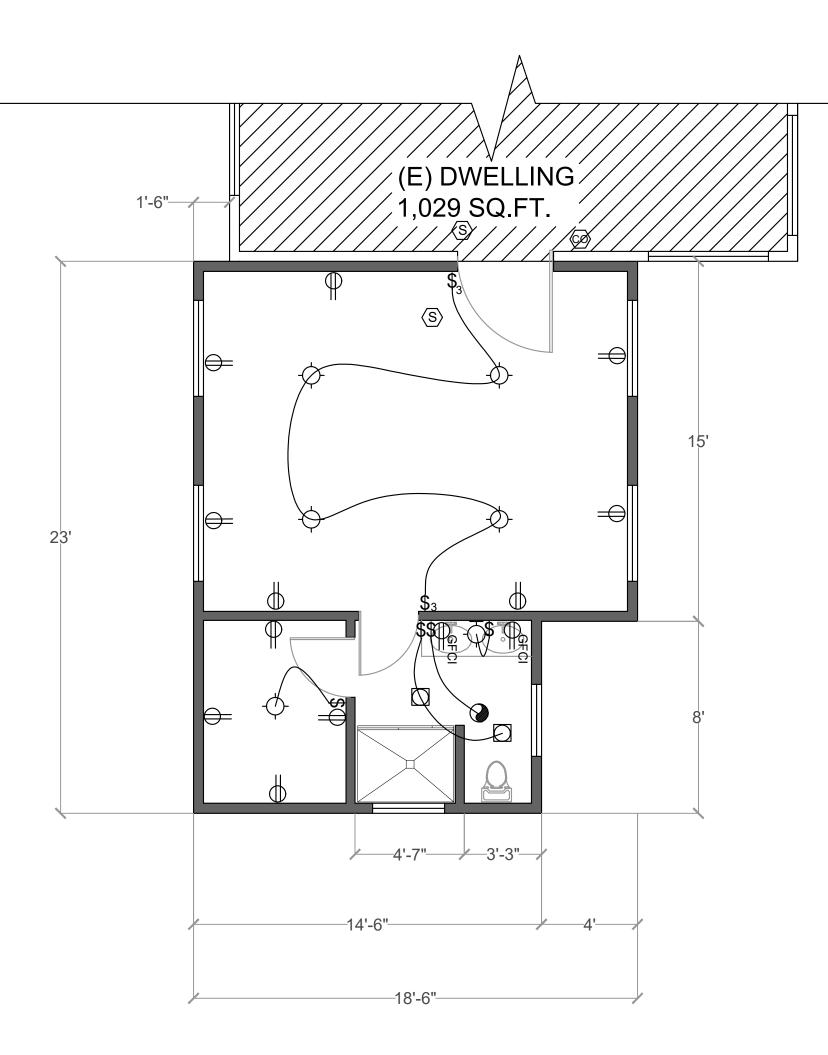
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SHEET:

NOTES:

- Luminaires and lamps that are Energy Commission certified must be marked with JA8-2019 or JA8-2019-E

- All LED luminaires are required to be controlled by a National Electrical Manuracturers ASSOCiation (NEMA) SSL-7A-compliant dimmer unless they are controlled by a vacancy sensor or an occupancy sensor.



ELECTRICAL PLAN

SCALE: 1/4" = 1'

ELECTRICAL LEGEND

- SINGLE POLE SWITCH
- THREE WAY SWITCH
- GFCI GROUND FAULT CURRENT INTERRUPTERS. SHALL BE TAMPER-RESISTANT
- 220V GFCI GROUND FAULT CURRENT INTERRUPTERS. SHALL BE TAMPER-RESISTANT
- DUPLEX OUTLET AFCI
- CEILING MOUNTED LED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- **CEILING FAN LIGHT**

HIGH EFFICACY LIGHTING OR HAVE OCCUPANCY SENSORS

- SMOKE DETECTORS- SHALL BE INTERCONNECTED SUCH THAT THE ACTIVATION OF ONE ALARMS WILL ACTIVATE ALL ALARMS, AND SHALL BE "HARD-WIRED" AND BATTERY BACKUP.
- CARBON MONOXIDE DETECTORS- SHALL BE INTERCONNECTED SUCH THAT THE ACTIVATION OF ONE ALARMS WILL ACTIVATE ALL ALARMS, AND SHALL BE "HARD-WIRED" AND BATTERY BACKUP.
- FAN/ LED LIGHT COMBO. EXHAUST FAN CAPABLE TO PROVIDE 5-AIR CHANGES (MIN.50 CFM to outside Ductless fans are unacceptable.)
 - 1.) Energy Star Compliant 2.) Ducted Termination Outside 3.) Controlled By Humidity

ALL LIGHTS WILL BE HIGH EFFICACY

ELECTRICAL NOTES:

-THE WORKING CLEARANCES REQUIRED BY CEC-110-26 MUST BE PERMANENTLY MAINTAINED IN FRONT OF ALL ELECTRICAL EQUIPMENT

-RECESSED LIGHTING IN INSULATED CEILING MUST MEET THREE REQUIREMENTS:

- 1.) RATED IC.
- 2.) CERTIFIED AIR TIGHT.
- 3.) HAVE SEALED GASKET OR CAULK BETWEEN HOUSING AND CEILING.

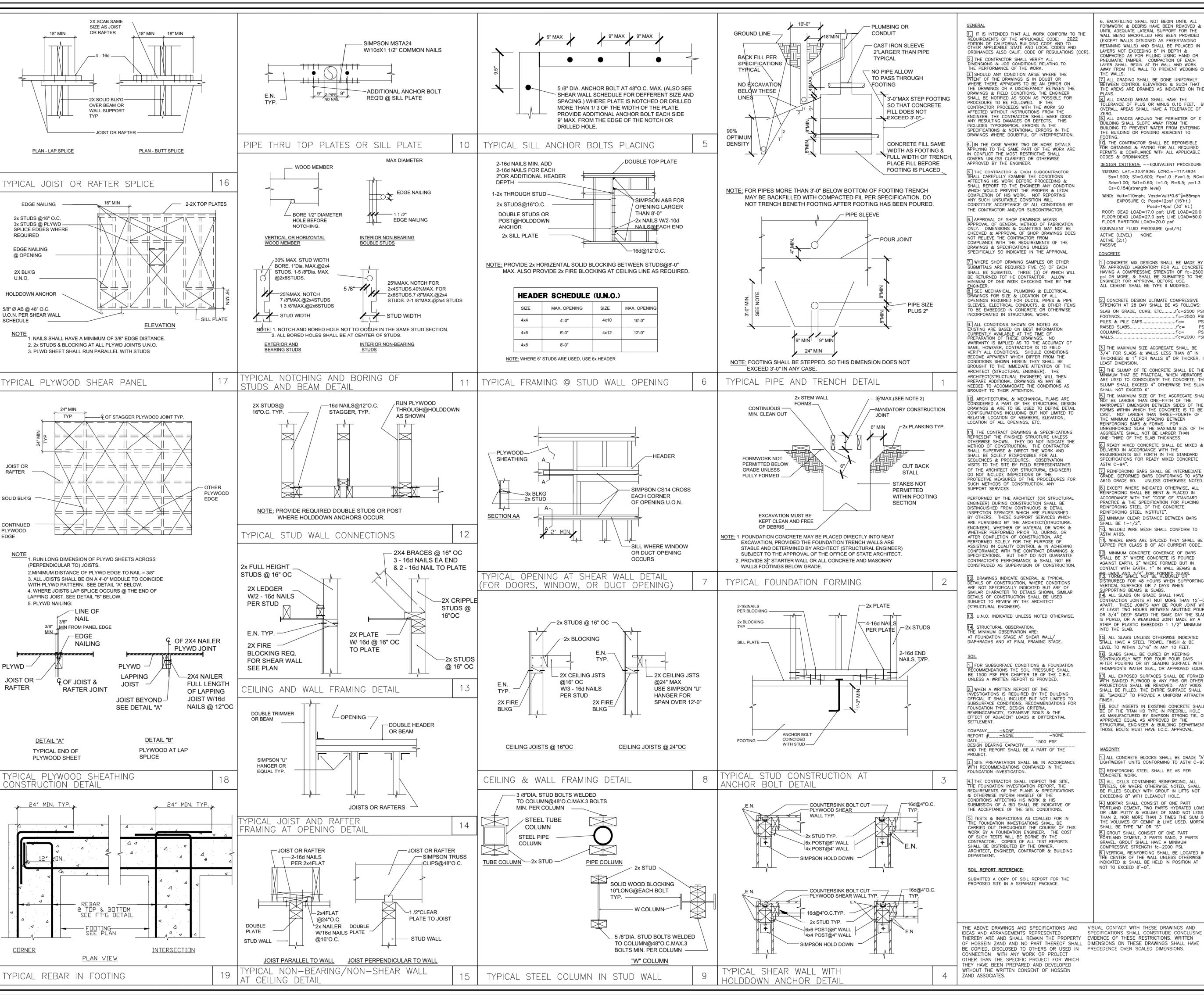
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05/15/2024

SCALE: 1/4" = 1'

DRAWN:

SHEET: A-3



FORMWORK & DEBRIS HAVE BEEN REMOVED & INTIL ADEQUATE LATERAL SUPPORT FOR WALL BEING BACKFILLED HAS BEEN PROVIDED (EXCEPT WALLS DESIGNED AS FREESTANDING RETAINING WALLS) AND SHALL BE POLACED IN LAYERS NOT EXCEEDING 8" IN BEPTH & PNEUMATIC TAMPER. COMPACTION OF EACH LAYER SHALL BEGIN AT EH WALL AND WORK THE WALLS. ALL GRADING SHALL BE DONE UNIFORMLY BETWEEN CONTROL ELEVATIONS & SUCH THAT

BACKFILLING SHALL NOT BEGIN LINTIL AL AWAY FROM THE WALL TO PREVENT WEDGING OF THE AREAS ARE DRAINED AS INDICATED ON THE B. ALL GRADED AREAS SHALL HAVE THE

OLERANCE OF PLUS OR MINUS 0.10 FEET. OVERALL AREAS SHALL HAVE A TOLERANCE OF ALL GRADES AROUND THE PERIMETER OF E BUILDING SHALL SLOPE AWAY FROM THE BUILDING TO PREVENT WATER FROM ENTERING

HE BUILDING OR PONDING ADGACENT TO d. THE CONTRACTOR SHALL BE REPONSIBLE FOR OBTAINING & PAYING FOR ALL REQUIRED PERMITS & COMPLIANCE WITH ALL APPLICABLE <u>DESIGN CRITERIA:</u> --EQUIVALENT PROCEDURE SEISMIC: LAT.=33.91836; LONG.=-117.4834

Ss=1.500; S1=0.600; Fa=1.0 ;Fv=1.5; RC=II

Sds=1.00; Sd1=0.60; I=1.0; R=6.5; p=1.3

Cs=0.154(strength level) WIND: Vult=110mph; Vasd=Vult*0.6¹=85mph EXPOSURE C; Pasd=12psf (15'ht.) Pasd=14psf (30' ht.) ROOF: DEAD LOAD=17.0 psf; LIVE LOAD=20.0 psf FLOOR: DEAD LOAD=27.0 psf; LIVE LOAD=50.0 psf FLOOR PARTITION LOAD=20.0 psf EQUIVALENT FLUID PRESSURE (psf/ft) ACTIVE (LEVEL) NONE ACTIVE (2:1)

<u>CONCRETE</u>

1. CONCRETE MIX DESIGNS SHALL BE MADE BY IN APPROVED LABORATORY FOR ALL CONCRETE HAVING A COMPRESSIVE STRENGTH OF fc-2500 psi OR MORE, & SHALL BE SUBMITTED TO THE ALL CEMENT SHALL BE TYPE II MODIFIED.

CONCRETE DESIGN ULTIMATE COMPRESSIVE STRENGTH AT 28 DAY SHALL BE AS FOLLOWS SLAB ON GRADE, CURB, ETCf'c=2500 PSI ..f'c=2500 PSI PILES & PILE CAPS. RAISED SLABS... ...f'c= COLUMNS... ...f'c=2000 PSI

WALLS.... THE MAXIMUM SIZE AGGREGATE SHALL BE 3/4" FOR SLABS & WALLS LESS THAN 8" IN THICKNESS & 1" FOR WALLS 8" OR THICKER, II LEAST DIMENSION. THE SLUMP OF TE CONCRETE SHALL BE THE MINIMUM THAT BE PRACTICAL. WHEN VIBRATORS ARE USED TO CONSOLIDATE THE CONCRETE, TH SHALL NOT EXCEED 6"

SLUMP SHALL EXCEED 4" OTHERWISE THE SLUMI 5. THE MAXIMUM SIZE OF THE AGGREGATE SHALI IOT BE LARGER THAN ONE—FIFTH OF TH NARROWEST DIMENSION BETWEEN SIDES OF THE FORMS WITHIN WHICH THE CONCRETE IS TO BE CAST. NOT LARGER THAN THREE-FOURTH OF HE MINIMUM CLEAR SPACING BETWEEN REINFORCING BARS & FORMS. FOR UNREINFORCED SLAB THE MAXIMUM SIZE OF TH AGGREGATE SHALL NOT BE LARGER THAN 6. READY MIXED CONCRETE SHALL BE MIXED & DELIVERD IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE STANDARD SPECIFICATIONS FOR READY MIXED CONCRETE

7. REINFORCING BARS SHALL BE INTERMEDIAT GRADE, DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60. UNLESS OTHERWISE NOTED. 8. EXCEPT WHERE INDICATED OTHERWISE, ALL REINFORCING SHALL BE BENT & PLACED IN ACCORDANCE WITH THE "CODE OF STANDARI PRACTICE & THE SPECIFICATION FOR PLACING REINFORCING STEEL OF THE CONCRETE REINFORCING STEEL INSTITUTE". 9. MINIMUM CLEAR DISTANCE BETWEEN BARS SHALL BE 1-1/2".

10. WELDED WIRE MESH SHALL CONFORM TO 11. WHERE BARS ARE SPLICED THEY SHALL BE TAPPED PER CLASS B OF ACI CURRENT CODE.. 12. MINIMUM CONCRETE COVERAGE OF BARS SHALL BE 3" WHERE CONCRETE IS POURED AGAINST EARTH, 2" WHERE FORMED BUT IN CONTACT WITH EARTH, 1" IN WALL BEAMS &

IF3LYMNS AND AZ 4" OF ORE FREMEDED LABS. DISTRURBED FOR 48 HOURS WHEN SUPPORTING VERTICAL SURFACES OR 7 DAYS WHEN UPPORTING BEAMS & SLABS. 4. ALL SLABS ON GRADE SHALL HAVE CONTRACTION JOINTS AT NOT MORE THAN 12'-THESE JOINTS MAY BE POUR JOINT WITH AT LEAST TWO HOURS BETWEEN ABUTTING POURS OR 3/4" DEEP SAWED THE SAME DAY THE SLAF IS PURED. OR A WEAKENED JOINT MADE BY A STRIP OF PLASTIC EMBEDDED 1 1/2" MINIMUM

15. ALL SLABS UNLESS OTHERWISE INDICATED SHALL HAVE A STEEL TROWEL FINISH & BE LEVEL TO WITHIN 3/16" IN ANY 10 FEET. 6. SLABS SHALL BE CURED BY KEEPING ONTINUOUSLY WET FOR FOUR POUR DAYS AFTER POURING OR BY SEALING SURFACE WITH THOMPSON'S WATER SEAL, OR APPROVED EQUAL 17. ALL EXPOSED SURFACES SHALL BE FORMED WITH SANDED PLYWOOD & ANY FINS OR OTHER PROJECTIONS SHALL BE REMOVED. ANY VOIDS SHALL BE FILLED. THE ENTIRE SURFACE SHALL BE "SACKED" TO PROVIDE A UNIFORM ATTRACTIVE 18. BOLT INSERTS IN EXISTING CONCRETE SHALL

F OF THE TITAN HD TYPE IN PREDRILL HOLE AS MANUFACTURED BY SIMPSON STRONG TIE, OF APPROVED EQUAL AS APPROVED BY THE STRUCTURAL ENGINEER & BUILDING DEPARTMENT HOSE BOLTS MUST HAVE I.C.C. APPROVAL.

MASONRY . ALL CONCRETE BLOCKS SHALL BE GRADE "A"

LIGHTWEIGHT UNITS CONFORMING TO ASTM C-90 REINFORCING STEEL SHALL BE AS PER CONCRETE WORK. 3. ALL CELLS CONTAINING REINFORCING, ALL TINTELS, OR WHERE OTHERWISE NOTED, SHALI BE FILLED SOLIDLY WITH GROUT IN LIFTS NOT EXCEEDING 8" WITH CLEANOUT HOLE. 4. MORTAR SHALL CONSIST OF ONE PART PORTLAND CEMENT. TWO PARTS HYDRATED LOMI OR LIME PUTTY & VOLUME OF SAND NOT LESS THE VOLUMES OF CEMNT & LIME USED. MORTAR SHALL BE TYPE "M" OR "S 5. GROUT SHALL CONSIST OF ONE PART PORTLAND CEMENT, 3 PARTS SAND, 2 PARTS GRAVEL, GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH fc-2000 PSI. 6. VERTICAL REINFORCING SHALL BE LOCATED IN INDICATED & SHALL BE HELD IN POSITION AT NOT TO EXCEED 8'-0".

 $\overline{2}$ -#5 BAR VERTICALLY THE FULL HEIGHT OF TH WALL AND 2-#5 BARS HORIZONTALLY EXTENDING DPENING. THIS SHALL INCLUDE DOOR OPENINGS PROVIDE DOWELS IN THE FOOTING FOR EACH VERTICAL BAR. DOWELS SHALL BE THE SAME SIZE AS THE BAR ABOVE. ALL SHORINGS FOR LINTELS SHALL REMAIN UNDISTURBED FOR 7 DAYS AFTER POURING IN LL CELLS. LINTELS SHALL BE FILLED WITH). ALL HORIZONTAL BARS SHALL BE CHANNEL R LINTEL BLOCKS. . ALL WALL CORNERS & INTERSECTIONS SHAL VERTICAL ALIGHNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED VERTICAL CELL MEASURING JOINTS SHALL BE STRUCK FLUSH & BACKED. 14. NO PIPING OTHER THAN CONDUIT SHALL WALL SHALL BE SOLID GROUTED IN PLACE. 16. SPACES AROUND METAL DOOR FRAMES &

ADJACENT TO ALL OPENINGS THERE SHALL B

13. UNLESS OTHERWISE INDICATED, ALL EXTERIOR JOINTS SHALL BE TOOLED CONCAVE, & INTERIOR EMBEDDED IN THE BLOCK UNLESS APPROVED BY 15. ALL BOLTS, ANCHORS, ETC. INSERTED IN THE OTHER BUILT-IN ITEMS SHALL BE FILLED SOLIDLY WITH GROUT OR MORTAR. 17. WHERE CONCRETE BLOCK WALLS ABU EMBEDDED IN & EXTENDING OUT FROM THE CONCRETE WALL WITH A MINIMUM OF 2'-0' HEY SHALL BE THE SAME SIZE & SPACING AS TO WHICH THEY WILL BE LAPPED.

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 & SHALL BE FABRICATED & ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. 2. ALL PIPE COLUMNS SHALL CONFORM TO ASTM A-53 GRADE "B". . ALL FABRICATION SHALL BE DONE BY TCENSED STEEL FABRICATORS. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS, USING THE ELECTRIC ARC PROCESS & -70 ELCETRODES STEEL FABRICATOR/WELDERS SHALL BE APPROVED BY THE CITY. CONTINUOUS INSPECTION IS REQUIRED FOR 5.1 CONTRACTOR SHALL BE RESPONSIBLE FOR ANY/ALL TEMPORARY BRACING. 7. BOLTS SHALL CONFORM TO ASTM A-307 JNLESS OTHERWISE NOTED ON PLANS. SHOP DRAWING SHALL BE SUBMITTED TO STRUCTURAL ENGINEER & APPROVED PRIOR TO GALVANIZED STEEL SHALL CONFORM TO TH TANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. GALVANIZING SHALL BE

ACCOPMPLISHED AFTER STEEL PARTS HAVE BEEN O. ALL STRUCTURAL STEEL OF W, S, M SHAPES HALL BE ASTM A992 — GRADE 50. U.O.N.

1. BOLT HOLES IN WOOD SHALL BE 1/32" TO 1/16" LARGER THAN THE NORMAL BOLT NAMETER. ALL BOLTS SHALL HAVE STANDARD UT WASHER UNDER HEAD & NUT UNLESS OTHERWISE NOTED. PROVIDE 2X SOLID BLOCKING BETWEEN JOISTS RAFTERS AT ALL SUPPORTS. BLOCKING SHAL E ONE PIECE & FULL DEPTH OF THE JOIST O

ALL BOLTS SHALL BE RETIGHTENED PRIOR TO THE APPLICATION OF SHEATHING, PLASTER, ETC. 4. EACH SHEET OF PLYWOOD SHALL BE ENTIFIED BY A REGISTERED STAMP OR BRAND OF THE DOUGLAS FIR PLYWOOD ASSOCIATION. . PLYWOOD FOR ROOF SHEATHING SHALL BE

DX. USE EXTERIOR TYPE, MINIMUM -C- GRADE PLYWOOD FOR FLOOR SHEATHING SHALL BE C & SHALL HAVE APPROVED TONGUE & GROOVE LL PLYWOOD SHALL CONFORM TO U.S. PRODUC TANDARS DOC PS 2-20. 3. ALL WOOD BEARING ON CONCRETE OR ASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR.

7. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY DETAILED 8. CROSS BRIDGING SHALL BE PROVIDED AT -0" CENTER TO CENTER, MAXIMUM FOR ALL JOISTS & RAFTERS HAVING A DEPTH OF MORE

9. ALL NAILS SHALL BE COMMON. NAILING SHALL BE PER CHAPTER 23 OF THE CALIFORNIA BUILDING CODE. O. ALL STRUCTURAL LUMBER SHALL BE OUGLAS FIR LARCH OF THE FOLLOWING GRADE, CONFORMING TO STANDARD GRADING RULES FOR VEST COAST LUMBER. UNLESS NOTED OTHERWIS 2X RAFTERS OR JOISTS......NO. 2 OR BETTER X MEMBERS..... X HEADERS OR BEAMS......NO. 2 OR BETTER 6X OR GREATER..... POST OR TIMBERS. ...NO. 1 OR BETTER LAMINATED BEAMS.....DF/DF 24F-V4 11. STUDS MAY BE BORED TO 40% OF WIDTH MAXIMUM. EXCEPT INTERIOR NONBEARING STUDS WHICH MAY BE BORED TO 60% OF WIDTH MAXIMUM WHEN EACH BORED STUD IS DOUBLED

WITH NOT MORE THAN TWO SUCCESSIVE DOUBLE 12. IN NO CASE SHALL THE EDGE OF A BORED TOLE BE NEARER THAT 5/8" TO THE EDGE OF 13. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS CUT OR NOTCH. 4. PROVIDE MINIMUM DOUBLE JOISTS UNDER PARALLELED PARTITIONS. 15. SIMPSON HARDWARE MAY SUBSTITUTE OTHER PPROVED HARDWARE, HARDWARE MUST HAVE ICC

6. ALL LUMBER SHALL HAVE MOISTURE CONTENT 19% OR LESS AT TIME OF INSTALLATION. 17. ANCHOR BOLTS SHALL BE ZMAX (G185 ASTM A653) OR HOT-DIP GALVANIZED (ASTM A153). 18. ALL WOOD SHALL COMPLY WITH NDS 2007.

. ALL FABRICATION & WORKMANSHIP SHALL BE ONFORMANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL GLUFD LAMINATED DOUGLAS FIR (COAST REGION) LUMBER BY THE WEST COAST LUMBERMAN'S ASSOCIATION & THE CURRENT EDITION OF TIMBER CONSTRUCTION. . ALL GLUED LAMINATED MEMBERS SHALL BE OMBINATION 24F-V4 WITH WATERPROOF ESORCINOL OF PHENOL RESORCINOL GLUE CONFORMING TO THE CBC STANDARD. JUNLESS SPECIFIED OTHERWISE FINISH OF TH MEMBERS SHALL BE INDUSTRIAL APPEARANCE

GRADE IN CONFORMANCE WITH THE STANDARD APPEARANCE GRADES OF THE A.I.T.C 4. MANUFACTURER SHALL SUBMIT COMPLETE SHOP DRAWINGS TOTE ENGINEER FOR APPROVA CERTIFICATES OF COMPLIANCE FOR EACH MEMBER IN ACCORDANCE WITH THE C.B.C.

PARALLAM (2.0E) PSL ICC#1387 Fv = 290 psiE = 2.0X10⁶ psi MICROLAM (1.9E) LVL ICC#1387 Fv = 285 psiFb = 2600 psi

PROCEEDING WITH THE FABRICATION.

 $E = 1.9X10^6 \text{ psi}$ RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST E NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE PRAWINGS. SHOP DETAILS MUST BE SUBMITTED O THIS OFFICE FOR REVIEW BEFORE

AMIN LAK +1(949) 439-amin159357(

-7404 @yah

REVISIONS BY

€ 16 DAN V AV 910 \Box DEA 278 | MON

05/15/2024

SCALE: 1/4" = 1

DRAWN: AMIN LAK JOB:

SGN