





APN: 047-218-280 ZONING: R-1/5-17/DR/CD OCCUPANCY GROUP:R-3/U TYPE OF CONSTRUCTION: V-B

PRE: PLN: 2019-00220 BLD: 2021-00565

APPLICABLE CODES: SAN MATEO COUNTY ZONING ∉ BUILDING ORDINANCES

2019 CALIFORNIA RESIDENTIAL CODE 2019 CALIFORNIA RESIDENTIAL CODE 2019 CALIFORNIA RESIDENTIAL CODE 2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA PLUMBING CODE 2019 CALIFORNIA ELECTRICAL CODE 2019 CALIFORNIA ENERGY CODE 2019 CALIFORNIA FIRE CODE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

PROJECT CONTACTS:

Owner:

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|---------------------------|
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| |

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Geotechnical Engineers:

Structural Engineer:

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|-------------------------------|
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SHEETS

OF



<u>GENERAL NOTES</u>

BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, THE BIDDER SHALL VISIT THE SITE AND LEARN THE EXISTING CONDITIONS. HE SHALL EXAMINE THE PLANS AND SPECIFICATIONS AND BASE HIS BID ON THEM. DURING CONSTRUCTION, NO CHANGES FROM PLANS AND SPECIFICATIONS SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE ARCHITECT AND OWNER. STRUCTURAL CHANGES MUST BE APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER.

2. THE GENERAL CONTRACTOR (G.C.) SHALL OBTAIN AND PAY FOR ALL PERMITS (EXCEPT THOSE PAID FOR BY THE OWNER) AND LICENSES AND SHALL GIVE ALL NOTICES. THE G.C. IS REQUIRED TO COMPLY WITH ALL CURRENT CODES, ORDINANCES, & REGULATIONS RELATED TO THIS PROJECT. ANY CONFLICT BETWEEN DRAWINGS, SPECIFICATIONS AND ORDINANCES SHALL BE IMMEDIATELY REFERRED TO THE ARCHITECT IN WRITING. THE G.C. FOR THIS WORK SHALL BE CURRENTLY LICENSED BY THE STATE OF CALIFORNIA. THE EMPLOYEES AND SUBCONTRACTORS USED BY THE G.C. TO CONSTRUCT AND FINISH THE WORK SHOWN ON THE PLANS MUST ALL BE SKILLED WORKMEN UNDER THE DIRECTIONS OF A COMPETENT FOREMAN. THE G.C. SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY AND ADJACENT PROPERTY FROM INJURY, DAMAGE, OR LOSS ARISING FROM THIS CONTRACT. SALES TAX SHALL BE PAID BY THE G.C. AND INCLUDED IN THE BID.

THE G.C. SHALL, AT ALL TIMES, KEEP THE PREMISES AND STREETS FREE OF WASTE AND RUBBISH CAUSED BY THE WORK, AND AT COMPLETION, SHALL REMOVE ALL RUBBISH, SURPLUS MATERIALS AND EQUIPMENT AND LEAVE THE WORK 'BROOM CLEAN'. THE G.C. SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND SHALL MAINTAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE, ALL EXISTING UTILITIES AND CITY SERVICES DURING CONSTRUCTION. ANY EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED, PLUGGED, OR CAPPED AS REQUIRED BY CODE AND/OR SOUND CONSTRUCTION PRACTICES. G.C. TO PROVIDE AN OPERATION AND MAINTENANCE MANUAL WILL BE PROVIDED TO OCCUPANT OR OWNER PER SECTION 4.410.1.

4. THE OWNER MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO, OR DEDUCTING FROM THE WORK. THE CONTRACT SUM SHALL BE ADJUSTED ACCORDINGLY AND ADEQUATE RECORDS SHALL BE KEPT BY THE G.C. TO SUBSTANTIATE ANY ADDITIONAL CHARGES. ALL SUCH WORK SHALL BE EXECUTED UNDER THE CONDITIONS OF THE ORIGINAL CONTRACT DOCUMENTS.

THE OWNER SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY ACCIDENT, LOSS, INJURY, OR DAMAGES 5. HAPPENING OR ACCRUING DURING THE TERM OF THE PERFORMANCE OF THE WORK AND IN CONNECTION THEREWITH, TO PERSONS AND/OR PROPERTY. THE G.C. SHALL HAVE IN FULL FORCE AND EFFECT DURING THE LIFE OF THIS CONTRACT, FULL COVERAGE LIABILITY AND WORKMEN'S COMPENSATION INSURANCE, WHICH SHALL COMPLY WITH CALIFORNIA LAWS AND WILL NOT BE CANCELED OR CHANGED DURING THE TERM OF THIS CONTRACT WITHOUT NOTICE BEING GIVEN TO THE OWNER, AND SHALL REQUIRE ALL INTERMEDIATE AND SUBCONTRACTORS TO TAKE OUT AND MAINTAIN SIMILAR POLICIES OF INSURANCE. ALL SUCH POLICIES SHALL BE WITH INSURANCE COMPANIES ACCEPTABLE TO THE OWNER. UNLESS EXPRESSLY STATED OTHERWISE, THE OWNER WILL TAKE OUT AND CARRY A COMPREHENSIVE INSURANCE POLICY INCLUDING FIRE. EXTENDED COVERAGE, VANDALISM AND MALICIOUS MISCHIEF PROTECTING BOTH HIS INTEREST AND THAT OF THE G.C.

6. IN ADDITION TO GUARANTEES CALLED FOR ELSEWHERE IN THESE SPECIFICATIONS, THE G.C. SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR AFTER NOTICE OF COMPLETION IS FILED, AGAINST DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THAT IS DISCOVERED AND REPORTED WITHIN THAT PERIOD.

IN GENERAL THE DRAWINGS WILL INDICATE DIMENSIONS, POSITION, TYPE OF CONSTRUCTION SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK INDICATED ON THE DRAWINGS, AND NOT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED, OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE DETAILED, MARKED OR SPECIFIED. THE LARGER THE SCALE OF THE DRAWING, THE MORE PRECEDENT, I.E.: 3 INCHES PER FOOT SCALE GOVERNS 1/4 INCH PER FOOT SCALE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. WRITTEN DIMENSIONS ARE APPROXIMATE AND MUST BE VERIFIED BY G.C. THE G.C. SHALL VERIFY, AND BE RESPONSIBLE FOR ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO, AND DURING, ALL PHASES OF WORK.

8. IF ANY SUBCONTRACTOR FINDS ANY LACK OF INFORMATION, DISCREPANCY, AND/OR OMISSIONS IN THESE DRAWINGS, OR IF THE SUBCONTRACTOR IS UNCLEAR AS TO THE DRAWINGS' MEANING AND/OR INTENT, THE SUBCONTRACTOR SHALL CONTACT THE G.C., WHO SHALL THEN CONTACT THE ARCHITECT AT ONCE FOR INTERPRETATION AND/OR CLARIFICATION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.

9. THE G.C. SHALL PROVIDE ADEQUATE CONCEALED BLOCKING AND ANCHORING FOR ALL CEILING- AND WALL-MOUNTED EQUIPMENT, HARDWARE, FIXTURES, AND ACCESSORIES.

10. ALL PRODUCTS LISTED IN THESE DRAWINGS BY NER NUMBER SHALL BE INSTALLED PER THE REPORT AND MANUFACTURER'S WRITTEN INSTRUCTIONS. PRODUCT SUBSTITUTION FOR PRODUCTS LISTED SHALL ALSO HAVE AN NER-APPROVED WRITTEN EVALUATION REPORT AND BE APPROVED AND LISTED BY OTHER NATIONALLY-RECOGNIZED TESTING AGENCIES.

11. EXTERIOR OPENABLE WINDOWS AND DOORS SHALL BE WEATHERSTRIPPED. ALL OPEN JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, AND/OR WEATHERSTRIPPED TO LIMIT, OR ELIMINATE, AIR LEAKAGE.

12. SEE STRUCTURAL SHEETS FOR STRUCTURAL MATERIALS. DIMENSIONS AND DETAILS.

13. SEE ATTACHED TITLE 24 FORMS AND/OR CALCULATION FOR PROJECT ENERGY EFFICIENCY REQUIREMENTS.

14. A CAPILLARY BREAK SHALL BE INSTALLED IF A SLAB ON GRADE FOUNDATION SYSTEM IS USED. THE USE OF A 4" THICK BAS OF 1/2" OR LARGER CLEAN AGGREGATE UNDER A 6 MIL VAPOR RETARDER WITH JOINT LAPPED NOT LESS THAN 6" WILL BE PROVIDED PER SECTION 4.505.2 AND R506.2.3.

15. UPON REQUEST, VERIFICATION OF COMPLIANCE WITH THE RELEVANT CODES MAY INCLUDE CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE BUILDING OFFICIAL WHICH SHOW SUBSTANTIAL CONFORMANCE.

16. CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE SUBMITTED PER CALGREEN 4.408.2 (OR IN ACCORDANCE WITH LOCAL ORDINANCE). MINIMUM OF 65% OF CONSTRUCTION WASTE SHALL BE **DIVERTED FOR RECYCLING OR SALVAGE PER CALGREEN 4.408.1**

17. OPERATIONS & MAINTENANCE MANUALS SHALL BE PROVIDED TO BUILDING OWNER ADDRESSING ITEMS 1 - 10 IN CALGREEN 4.410.1

18. DUCT SYSTEMS SHALL BE SIZED, DESIGNED, AND EQUIPED PER CALGREEN 4.507.2. HVAC SYSYTEM INSTALLERS MUST BE TRAINED AND CERTIFIED AND SPECIAL INSPECTORS EMPLOYED BY THE ENFORCING AGENCY MUST BE QUALIFIED.

19. BATHROOM EXHAUST FANS SHALL COMPLY WITH CALGREEN 4.506.1. EACH BATHROOM SHALL BE MECHANICALLY VENTILATED WITH AN ENERGY STAR EXHAUST FAN AND MUST BE CONTROLLED BY A HUMIDITY SENSOR.

20. PROTECT ANNULAR SPACES AROUND PIPES, ELECTRICAL CABLES, CONDUITS OR OTHER OPENINGS AT EXTERIOR WALLS AGAINST THE PASSAGE OF RODENTS (CALGREEN 4.406.1)

21. COVER DUCT OPENINGS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS DURING CONSTRUCTION (CALGREEN 4.504.1)

22. ADHESIVES, SEALANTS, AND CAULKS SHALL BE COMPLIANT WITH VOC AND OTHER TOXIC COMPOUND LIMITS (CALGREEN 4.504.2.1)

23. PAINTS, STAINS, AND OTHER COATINGS SHALL BE COMPLIANT WITH VOC LIMITS (CALGREEN 4.504.2.2)

24. AEROSOL PAINTS AND COATINGS SHALL BE COMPLIANT WITH PRODUCT WEIGHTED MIR LIMITS FOR ROC AND TOXIC COMPOUNDS (CALGREEN 4.504.2.3). VERIFICATION OF COMPLIANCE SHALL BE PROVIDED.

CARPET AND CARPET SYSTEMS SHALL BE COMPLIANT WITH VOC LIMITS (CALGREEN 4.504.3) 25.

26. MINIMUM OF 80" FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH CALGREEN 4.504.4

27. PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF), AND HARDWOOD PLYWOOD USED IN INTERIOR FINISH SYSTEMS SHALL COMPLY WITH LOW FORMALDEHYDE EMISSION STANDARDS (CALGREEN 4.504.5)

28. INSTALL CAPILLARY BREAK AND VAPOR RETARDER AT SLAB ON GRADE FOUNDATIONS (CALLGREEN 4.505.2)

29. CHECK MOISTURE CONTENT OF BUILDING MATERIALS USED IN WALL AND FLOOR FRAMING BEFORE ENCLOSURE (CALGREEN 4.505.3)

HERS INSPECTION ITEMS

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building components tables below.

Building-level Verifications: • High guality insulation installation (QII) IAQ mechanical ventilation

Cooling System Verifications:

• -- None --

HVAC Distribution System Verifications: Duct Sealing

Domestic Hot Water System Verifications: • -- None --

Smoke Detectors

As per the California Building Code, State Fire Marshal regulations, and Coastside Fire District Ordinance 2019-03, the applicant is required to install State Fire Marshal approved and listed smoke detectors which are hard wired, interconnected, and have battery backup. These detectors are required to be placed in each new and reconditioned sleeping room and at a point centrally located in the corridor or area giving access to each separate sleeping area. In existing sleeping rooms, areas may have battery powered smoke alarms. A minimum of one detector shall be placed on each floor. Smoke detectors shall be tested and approved prior to the building final. Date of installation must be added to exterior of the smoke alarm and will be checked at final.

Smoke alarm/detector are to be hard wired, interconnected, or with battery back up. Smoke alarms to be installed per manufacturers instruction and NFPA 72.

<u>Windows</u>

Escape or rescue windows shall have a minimum net clear openable area of 5.7 square ft (sqft), 5.0 sqft allowed at grade. The minimum net clear openable height dimension shall be 24 inches. The net clear openable width dimension shall be 20 inches. Finished sill height shall not be more than 44 inches above the finished floor (CFC) 1030).

Address Markers

New residential buildings shall have internally illuminated address numbers contrasting with the background so as to be seen from the public way fronting the building. The letters/numerals for permanent address signs shall be 6 inches in height with a minimum of 1/2 inch stroke. Residential address numbers shall be at least six feet above the finished surface of the driveway. Where buildings are located remotely to the public roadway, an additional signage at the driveway/roadway entrance leading to the building and/or on each individual building shall be required by the Coastside Fire District. This remote signage shall consist of a 6 inch by 18 inch green reflective metal sign with 3 inch reflective numbers/letters similar to Hy-Ko 911 or equivalent. (TEMPORARY ADDRESS NUMBERS SHALL BE POSTED PRIOR TO COMBUSTIBLES BEING PLACED ON SITE).

<u>Roofing</u>

As per Coastside Fire District Ordinance 2019-03, the roof covering of every new building or structure, and materials applied as part of a roof covering assembly, shall have a minimum fire rating of Class "B" or higher as defined in the current addition of the California Building Code.

Vegetation Management (LRA)

The Coastside Fire District Ordinance 2019-03, the 2019 California Fire Code 304.1.2:

A fuel break of defensible space shall is required around the perimeter of all structures to a distance of not less than 30 feet and may be required to a distance of 100 feet or to the property line. this is neither a requirement nor an authorization for the removal of living trees.

Trees located within the defensible space shall be pruned to remove dead and dying portions, and limbed up 6 feet above the ground. New trees planted in the defensible space shall be located no closer than 10 feet to adjacent trees when fully grown or at maturity.

Remove that portion of any existing trees, which extends within 10 feet of the outlet of a chimney or stovepipe or is within 5 feet of any structure. Maintain any tree adjacent to or overhanging a building free of dead or dying wood.

<u>Fire Hydrant</u>

As per 2019 CFC, Appendix B and C, a fire district approved fire hydrant (Clow 960) must be located within 500 feet of the proposed single-family dwelling unit measured by way of drivable access. As per 2019 CFC, Appendix B the hydrant must produce a minimum fire flow of 500 gallons per minute at 20 pounds per square inch residual pressure for 2 hours. Contact the local water purveyor for water flow details.

Automatic Fire Sprinkler System (Fire Sprinkler plans will require a separate permit)

As per San Mateo County Building Standards and Coastside Fire District Ordinance 2019-03, the applicant is required to install an automatic fire sprinkler system throughout the proposed or improved dwelling and garage. All attic access locations will be provided with a pilot head on metal upright. Sprinkler coverage shall be provided throughout the residence to include all bathrooms, garages, and any area used for storage. The only exception is small linen closets less than 24 square feet with full depth shelving. The plans for this system must be submitted to the San Mateo County Planning and Building Division or the City of HMB. A building permit will not be issued until plans are received, reviewed, and approved. Upon submission of plans, the County or City will forward a complete set to the Coastside Fire District for review.

Installation of underground sprinkler pipe shall be flushed and visually inspected by Fire District prior to hook-up to riser. Any soldered fittings must be pressure tested with trench open. Please call Coastside Fire District to schedule an inspection. Fees shall be paid prior to plan review.

An exterior bell and interior horn/strobe are required to be wired into the required flow switch on your fire sprinkler system. The bell, horn/strobe, and flow switch, along with the garage door opener, are to be wired into a separate circuit breaker at the main electrical panel and labeled.

Solar Photovoltaic Systems

These systems shall meet the requirements of the 2019 CFC Section 605.11.

| REVISIONS | | | | | |
|-----------------------------------|--|---|-------------------------|----------------|---------------------------|
| / | | | | | |
| EDWARD | D C. LC | DVE, | | | |
| Edward C. Love | Architect | 720 MILL STREET | HALF MOON BAY, CA 94019 | (650) 728-7615 | edwardclovearch@gmail.com |
| New Residence for | Gotsu Inc. | Dick Facultured & Dick | | Flighter C | |
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COUNTY OF SAN MATEO PLANNING AND BUILDING

County Government Center 455 County Center, 2nd Floor Redwood City, CA 94063 650-363-4161 T planning.smcgov.org

August 7, 2020

Edward Love 720 Mill Street

Half Moon Bay, CA 94019

Dear Mr. Love,

SUBJECT: Coastside Design Review Approval Ferdinand Avenue, El Granada APN 047-218-280; County File No. PLN 2019-00220

At its meeting of July 9, 2020, the San Mateo County Coastside Design Review Committee (CDRC) considered a Design Review Permit to allow construction of a new two-story 2,276 sq. ft. single-family residence with attached garage on a 5,001 sq. ft. legal parcel (through PLN 2007-00009). Only minor grading and no tree removal is proposed.

Based on the plans, application forms and accompanying materials submitted, the Coastside Design Review Committee approved your project based on and subject to the following findings and conditions:

FINDINGS

The Coastside Design Review Officer found that:

For the Environmental Review

1. This project is exempt from environmental review pursuant to the California Environmental Quality Act (CEQA), Section 15303, relating to new construction of one single-family residence in a residential zone.

The Coastside Design Review Committee found that:

2. For the Design Review

The project has been reviewed under and found to be in compliance with the Design Review Standards for One-Family and Two-Family Residential Development in the Midcoast, Section 6565.20 of the San Mateo County Zoning Regulations, specifically



L ALL DRAWINGS, SPECIFICATIONS, AND COPIES THEREOF, PREPARED AND/OR SUPPLIED BY THE ARCHITECT, SHALL REMAIN HIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT IS NOT TO BE USED ON ANY OTHER PROJECT. WITH THE EXCEPTION OF THE ARCHITECT'S COMMON LAW COPYRIGHT OR OTHER RESERVED RIGHTS.

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- j. Limiting construction access routes and stabilization of designated access points.
- k. Avoiding tracking dirt or other materials off-site: cleaning off-site paved areas and sidewalks using dry sweeping methods.
- I. Training and providing instruction to all employees and subcontractors regarding the Watershed Protection Maintenance Standards and construction Best Management Practices.
- m. Additional Best Management Practices in addition to those shown on the plans may be required by the Building Inspector to maintain effective stormwater management during construction activities. Any water leaving the site shall be clear and running slowly at all times.
- n. Failure to install or maintain these measures will result in stoppage of construction until the corrections have been made and fees paid for staff enforcement time.
- 6. Any new power and telephone utility lines from the street or nearest existing utility pole to the main dwelling and/or any other structure on the property shall be placed underground.
- 7. The applicant shall apply for a building permit and shall adhere to all requirements from the Building Inspection Section, the Drainage Section, the Geotechnical Section, the Department of Public Works, the Coastside Fire Protection District, the Granada Community Services District and the Coastside County Water District.
- 8. No site disturbance shall occur, including any grading or tree/vegetation removal, until a building permit has been issued.
- 9. The exterior color samples submitted to the CDRC are approved. Color verification shall occur in the field after the applicant has applied the approved materials and colors but before a final inspection has been scheduled.
- 10. Noise sources associated with demolition, construction, repair, remodeling, or grading of any real property shall be limited to the hours from 7:00 a.m. to 6:00 p.m. weekdays and 9:00 a.m. to 5:00 p.m. Saturdays. Said activities are prohibited on Sundays, Thanksgiving and Christmas (San Mateo Ordinance Code Section 4.88.360).
- 11. The applicant shall provide "finished floor elevation verification" to certify that the structure is actually constructed at the height shown on the submitted plans. The applicant shall have a licensed land surveyor or engineer establish a baseline elevation datum point in the vicinity of the construction site.
 - a. The applicant shall maintain the datum point so that it will not be disturbed by the proposed construction activities until final approval of the building permit.

| | | REVISIONS |
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| elaborated as follows: | c. Remove two trees from the left side and increase spacing. Total count of trees shall be reduced from six to four. | |
| a. Section 6565.20 (C) SITE PLANNING AND STRUCTURE PLACEMENT; 1. Integrate Structures with the Natural Setting; a. Trees and Vegetation: | d. Add trellis to front elevation above garage. The trellis shall be 18 inches in height. | |
| The placement of the house allows for a generous buffer zone from other homes and the street. | e. Add trellis to the right (east) elevation above garage windows and extend the trellis to garage man door. The trellis shall be 18 inches in height | |
| b. Section 6565.20 (D) ELEMENTS OF DESIGN; 1. Building Mass, Shape and Scale; a. Relationship to Existing Topography and b. Neighborhood Scale; and 2. | f. Add railing at front stair. The railing shall match the porch railing. | |
| Architectural Styles and Features; a. Architectural Style: The shape, scale and color are complimentary to the other homes in the neighborhood. | g. It is recommendation to add down lighting to the front trellis. | |
| c. Section 6565.20 (D) ELEMENTS OF DESIGN; 3. Roof Design; a. Massing and Design of Roof Forms: Roof forms are designed to minimize mass and scale. | The property owner shall adhere to the San Mateo Countywide Stormwater Pollution Prevention Program "General Construction and Site Supervision Guidelines," including, but not limited to, the following: | |
| IDITIONS ent Planning Section | a. Delineation with field markers of clearing limits, easements, setbacks, sensitive or critical areas, buffer zones, trees, and drainage courses within the vicinity of areas | |
| The project shall be constructed in compliance with the plans approved by the | to be disturbed by construction and/or grading. | |
| approved plans shall be submitted to the Design Review Officer for review and approval prior to implementation. Minor adjustments to the project may be approved by the | using vegetative buffer strips, sediment barriers or filters, dikes, mulching, or other measures as appropriate. | |
| Design Review Officer if they are consistent with the intent of and are in substantial conformance with this approval. Alternatively, the Design Review Officer may refer consideration of the revisions to the Coastside Design Review Committee, with | c. Performing clearing and earth-moving activities only during dry weather. | |
| applicable fees to be paid. | Stabilization of all denuded areas and maintenance of erosion control measures continuously between October 1 and April 30. | |
| n which time a Building Permit shall be issued and a completed inspection (to the satisfaction of the Building Inspector) shall have occurred within 180 days of its | e. Storage, handling, and disposal of construction materials and wastes properly, so as to prevent their contact with stormwater. | |
| ssuance. The design review approval may be extended by a one-year increment with submittal of an application for permit extension and payment of applicable extension fees sixty days prior to the expiration date. | f. Control and prevention of the discharge of all potential pollutants, including | |
| The applicant shall include a copy of this letter on the top pages of the building plans. | water or sediments, and non-stormwater discharges, to storm drains and watercourses. | |
| The applicant shall indicate the following on the plans submitted for a building permit, as stipulated by the Coastside Design Review Committee: | g. Use of sediment controls or filtration to remove sediment when dewatering the site and obtain all necessary permits. | |
| Add taller shrubs to left rear of the property. Consider using same shrubs used in the front. | Avoiding cleaning, fueling, or maintaining vehicles on-site, except in a designated area where wash water is contained and treated. | |
| D. Remove the first five shrubs on the left front side of the property and replace with a smaller type of shrub. | Limiting and timing applications of pesticides and fertilizers to prevent polluted runoff | $\left \begin{array}{c} \mathcal{A} \\ \mathcal{A} \\ \mathcal{A} \end{array} \right $ |
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| b. This datum point and its elevation shall be shown on the submitted site plan. This datum point shall be used during construction to verify the elevation of the finished | c. The applicant shall ensure that no construction-related vehicles shall impede | |
| floors relative to the existing natural or to the grade of the site (finished grade). | vehicles shall be parked on-site outside the public right-of-way or in locations which do not impede safe access on Ferdinand Street. There shall be no storage | |
| c. Prior to Planning approval of the building permit application, the applicant shall also have the licensed land surveyor or engineer indicate on the construction plans: (1) the natural grade elevations at the significant corpers (at least four) of | of construction vehicles in the public right-of-way. | |
| the footprint of the proposed structure on the submitted site plan, and (2) the elevations of proposed finished grades. | 15. At the building permit application stage, the project shall demonstrate compliance with | |
| d. In addition, (1) the natural grade elevations at the significant corners of the proposed structure. (2) the finished floor elevations. (3) the topmost elevation of | the Water Efficient Landscape Ordinance (WELO) and provide the required forms. WELO applies to new landscape projects equal to or greater than 500 sq. ft. and republicated landscape projects equal to an greater than 2 500 square fact. | Ŭ Ŭ |
| the roof, and (4) the garage slab elevation must be shown on the plan, elevations, and cross-section (if one is provided). | prescriptive checklist is available as a compliance option for projects under 2,500 square feet. The Performance approach is applicable to new and/or rehabilitated | PF A |
| Once the building is under construction, prior to the below floor framing inspection or the pouring of the concrete slab (as the case may be) for the lowest floor(s), the | Building Inspection Section | <u>ທ</u> |
| applicant shall provide to the Building Inspection Section a letter from the licensed | 16. A building permit is required for the proposed project. | |
| land surveyor or engineer certifying that the lowest floor height, as constructed, is | | |
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| | | | | | | REVISIONS |
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| elaborated as follows: | | | c. Remove two tro | ees from the left side and increase spac | ing. Total count of trees | |
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| satisfaction of the Building Pe | Inspector) shall have occurred | within 180 days of its | e. Storage, handl as to prevent th | neir contact with stormwater. | als and wastes propeny, so | dwar dwar |
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| datum point shall be u floors relative to the ex | used during construction to veri xisting natural or to the grade o | fy the elevation of the finished of the site (finished grade). | through traffic a vehicles shall b which do not in | along the right-of-way on Ferdinand Stre be parked on-site outside the public right | eet. All construction t-of-way or in locations | |
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| and cross-section (if o | one is provided). | | square feet. The Pe | erformance approach is applicable to new | w and/or rehabilitated | <u> </u> |
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| 12. The applicant shall include County's Erosion Control G This plan shall identify the t upon the commencement of | an erosion and sediment contr Guidelines on the plans submitte type and location of erosion co of construction in order to main | of plan to comply with the ed for the building permit. ntrol measures to be installed ain the stability of the site and | c. Updated C.3 ar made during th | nd C.6 Checklist (if changes to the impe e design phase). | rvious areas have been | CENSARD C. O. TO |
| prevent erosion and sedime | entation off-site. | | Geotechnical Section | | | No. C23077 ★ Ren. 1/31/21 ★ |
| To reduce the impact of cor the following: | nstruction activities on neighbo | ring properties, comply with | 18. A geotechnical repo Permit Stage. Pleas | rt with detailed grading and foundation of se submit electronically to <u>geo@smcgov</u> | lesign is required at Building <u>corg</u> for review. | OF CALIFORNIT |
| a. All debris shall be con on-site during constru- | ntained on-site; a dumpster or t | rash bin shall be provided | Department of Public Wor | <u>'ks</u> | | DATE: 3/2 /23 |
| properties. The applic and appropriately disp | cant shall monitor the site to en | sure that trash is picked up | 19. Prior to the issuance registered civil engine | e of the Building permit, the applicant sh neer, a drainage analysis of the propose | all have prepared, by a d project and submit it to | SCALE: |
| b. The applicant shall rer | move all construction equipme | nt from the site upon | the Department of P consist of a written r | ublic Works for review and approval. The arrative and a plan. The flow of the sto | ne drainage analysis shall rmwater onto, over, and off | DRAWN: Author |
| completion of the use include but not be limi | and/or need of each piece of e ited to tractors, back hoes, cem | equipment which shall nent mixers, etc. | of the property shall appropriate to clearly | be detailed on the plan and shall includ y depict the pattern of flow. The analysi adequate drainage. Post development | e adjacent lands as s shall detail the measures flows and velocities shall | JOB: GOTSU |
| | | | necessary to certify | adogadio di anago. T ost-developinent | nano ana volocitos sitali | |
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not exceed those that existed in the pre-developed state. Recommended measures shall be designed and included in the improvement plans and submitted to the Department of Public Works for review and approval.

- 20. Prior to the issuance of the Building permit, the applicant shall submit a driveway "Plan and Profile," to the Department of Public Works, showing the driveway access to the parcel (garage slab) complying with County Standards for driveway slopes (not to exceed 20 percent) and to County Standards for driveways (at the property line) being the same elevation as the center of the access roadway. When appropriate, as determined by the Department of Public Works, this plan and profile shall be prepared from elevations and alignment shown on the roadway improvement plans. The driveway plan shall also include and show specific provisions and details for both the existing and the proposed drainage patterns and drainage facilities.
- 21. No proposed construction work within the County right-of-way shall begin until County requirements for the issuance of an encroachment permit, including review of the plans, have been met and an encroachment permit issued. Applicant shall contact a Department of Public Works Inspector 48 hours prior to commencing work in the rightof-way.
- 22. Prior to the issuance of the Building Permit, the applicant will be required to provide payment of "roadway mitigation fees" based on the square footage (assessable space) of the proposed building per Ordinance #3277.

Coastside County Water District

23. At the time of building permit submittal, a full set of the most recent plans and drawings for the project, including fire sprinkler, architectural, plumbing, mechanical, green building, structural, civil, utility, and landscape/irrigation must be submitted to the District for review and approval. Existing and new utilities must be clearly marked on the drawings.

Granada Community Services District

24. There is a sewer mainline facility to serve the project parcel on Ferdinand Avenue. The applicant must obtain a sewer connection permit to connect the project to the District's wastewater facilities.

Coastside Fire Protection District

25. Fire Department access shall be to within 150 feet of all exterior portions of the facility and all portions of the exterior walls of the first story of the buildings as measured by an approved access route around the exterior of the building or facility. Access shall be a minimum of 20 feet wide, all weather capability, and able to support a fire apparatus weighing 75,000 pounds. Where a fire hydrant is located in the access, a minimum of 26 feet is required for a minimum of 20 feet on each side of the hydrant. This access

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shall be provided from a publicly maintained road to the property. Grades over 15 percent shall be paved and no grade shall be over 20 percent. When gravel roads are used, it shall be class 2 base or equivalent compacted to 95 percent. Gravel road access shall be certified by an engineer as to the material thickness, compaction, all weather capability, and weight it will support.

- 26. All buildings that have a street address shall have the number of that address on the building, mailbox, or other type of sign at the driveway entrance in such a manner that the number is easily and clearly visible from either direction of travel from the street. New residential buildings shall have internally illuminated address numbers contrasting with the background so as to be seen from the public way fronting the building. Residential address numbers shall be at least six feet above the finished surface of the driveway. An address sign shall be placed at each break of the road where deemed applicable by the San Mateo County Fire Department. Numerals shall be contrasting in color to their back-ground and shall be no less than 4 inches in height, and have a minimum 1/2-inch stroke. Remote signage shall be a 6-inch by 18-inch green reflective metal sign.
- 27. Contact the Fire Marshal's Office to schedule a Final Inspection prior to occupancy and Final Inspection by a Building Inspector. Allow for a minimum of 72 hours notice to the Fire Department at 650/573-3846.
- 28. A fire flow of 500 gpm for 2 hours with a 20-psi residual operating pressure must be available as specified by additional project conditions to the project site. The applicant shall provide documentation including hydrant location, main size, and fire flow report at the building permit application stage. Inspection required prior to Fire's final approval of the building permit or before combustibles are brought on site.
- 29. Any chimney or woodstove outlet shall have installed onto the opening thereof an approved (galvanized) spark arrestor of a mesh with an opening no larger than 1/2-inch in size or an approved spark arresting device. Maintain around and adjacent to such buildings or structures a fuelbreak/firebreak made by removing and cleaning away flammable vegetation for a distance of not less than 30 feet and up to 100 feet around the perimeter of all structures or to the property line, if the property line is less than 30 feet from any structure. This is not a requirement nor an authorization for the removal of live trees. Remove that flammable portion of any tree which extends within 10 feet of the outlet of any chimney or stovepipe, or within 5 feet of any portion of any building or structures. Remove that dead or dying portion of any tree which extends over the roof line of any structure.
- 30. Smoke alarms and carbon monoxide detectors shall be installed in accordance with the California Building and Residential Codes. This includes the requirement for hardwired, interconnected detectors equipped with battery backup and placement in each sleeping room in addition to the corridors and on each level of the residence.

L Construed by the architect, shall remain his property. They are to be used on any other project is not to be used on any other project is not to be used on any other project and are not to be used on any other reserved rights. The architect is not to be used on any other project is not to be used on any other reserved rights. The architect is not to be used on any other project is not to be used on any other reserved rights.

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31. An approved Automatic Fire Sprinkler System meeting the requirements of NFPA-13D shall be required to be installed for your project. Plans shall be submitted to the San Mateo County Building Department for review and approval by the authority having jurisdiction.

32. A statement that the building will be equipped and protected by automatic fire sprinklers must appear on the title page of the building plans.

The appeal date for this CDRC approval was July 24, 2020. No appeals were received, and the approval is final.

klang@smcgov.org

http://planning.smcgov.org/survey.

Sincerely

Ruemel Panglao Design Review Officer

RSP:KGL:cmc - KGLEE0304_WCN.DOCX

cc: Katie Kostiuk, Member Architect Bruce Chan, Member Architect GOTSU Inc, Owner

REVISIONS EDWARD C. LOVE, ARCHITEC \mathcal{O} Ó 4 ward $\bar{\mathcal{T}}$ 11 1 for () \triangleleft Residence erdinand ranada, C otsu Inc \mathcal{O} \bigcirc \geq ∞ V \bigcirc Ž S σ \cap \mathcal{D} \mathcal{D} 4 0 ഗ 0 diti \cap ()DATE: 3/21/23 SCALE: DRAWN: Author GOTSU SHEETS

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For more information, please contact the project planner, Kelsey Lang, at 650/599-1549 or

To provide feedback, please visit the Department's Customer Survey at the following link:

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

| Y | N/A | RESPON. PARTY | CHAPTER 3 GREEN BUILDING | Y | N/A | RESPON. PARTY | - |
|---|-----|------------------|---|---|-----|------------------|--|
| | | | 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. | | | | 4.106.4.2.1.1 required by S 1. The EV sp requireme |
| | | | 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 | | | | from the a 2. The EV sp <i>Code,</i> Cha |
| | | | Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or | | | | Califor Section |
| | | | 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, | | | | Note: Electric Building Code |
| | | | other important enactment dates. | | | | 4.106.4.2.2 E designed to c |
| | | | 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. | | | | 1. The 2. The 3. On wic mir |
| | | | SECTION 302 MIXED OCCUPANCY BUILDINGS | | | | |
| | | | shall comply with the specific green building measures applicable to each specific occupancy. | | | | 4.106.4.2.3 S volt dedicated |
| | | | ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development | | | | diameter). Th cabinet, box o documents sl |
| | | | DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development | | | | capacity to in installation of |
| | | | LR Low Rise HR High Rise AA Additions and Alterations | | | | 4.106.4.2.4 N termination po shall also pro |
| | | | N New | | | | electrical load including any |
| | | | CHAPTER 4 RESIDENTIAL MANDATORY MEASURES | | | | 40-ampere m installed unde |
| | | | DIVISION 4.1 PLANNING AND DESIGN | | | | 4.106.4.2.5 lc |
| | | | SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS | | | | protective dev with the <i>Calif</i> o |
| | | | 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 | | | | 4.106.4.3 Nev capable of su |
| | | | pervious material used to collect or channel drainage or runoff wattles are often constructed of natural plant materials | | | | of the EV spa Notes: |
| | | | 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. | | | | 1. Con |
| | | | 4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation | | | | 2. The are |
| - | | | 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. 4 on the |
| F | | | 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 | | | | neares |
| | | | 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. 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 | | | | SP |
| | | | by the enforcing agency. 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. | | | | 26 |
| | | | (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html) | | | | 51- |
| Ē | | | 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: | | | | 76- 10 ⁴ |
| | | | Swales Water collection and disposal systems French draine | | | | 15 |
| | | | a. French drains 4. Water retention gardens 5. Other water measures which keep surface water away from buildings and aid in groundwater | | | | 20 |
| | | | recharge. Exception: Additions and alterations not altering the drainage path. | | | | 4.106.4.3.2 Electric comply with the fo |
| | | | 4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1, 4.106.4.2, or 4.106.4.3 to facilitate future installation and use of EV chargers. Electric vehicle supply | | | | 1. The m 2. The m |
| | | | equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i> , Article 625. | | | | 4.106.4.3.3 Single in accordance with |
| | | | 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 commercial power supply. | | | | 4.106.4.3.4 Multip designed in accor |
| | | | 1.2 Where there is evidence substantiating that meeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the homeowner or the developer by more than \$400.00 per | | | | 4.106.4.3.5 Ident 4.106.4.2.5. |
| | | | dwelling unit. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities. | | | | 4.106.4.3.6 Acces hotels/motels and stations in the <i>Ca</i> . |
| | | | 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each | | | | |
| | | | aweiiing 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 | | | | DIVISION 4.2 |
| | | | 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 minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent | | | | 4.201.1 SCOPE. For the p Commission will contir |
| | | | protective device. 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 location shall be permanently and visibly marked as "EV CAPABLE". | | | | |
| | | | 4.106.4.2 New multifamily dwellings. If residential parking is available, 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 EVSE. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number. | | | | |
| | | | Notes: 1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use. | | | | |
| | | | 4.106.4.2.1 Electric vehicle charging space (EV space) locations. Construction documents shall indicate the location of proposed EV spaces. Where common use parking is provided at least one EV space shall be located in the common use parking area and shall be available for use by all residents. | | | | |
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|---|---|--|-------|--------------------|--|--|---|
| 2.1.1 Electric Vehicle Charging Station by Section 4.106.2.2, Item 3, shall comp EV space shall be located adjacent to an rements of the <i>California Building Code</i> , the accessible parking space. EV space shall be located on an accessil | ns (EVCS) When EV chargers are in only with at least one of the following of accessible parking space meeting t Chapter 11A, to allow use of the EV oble route, as defined in the <i>California</i> | nstalled, EV spaces options: re charger a <i>Building</i> | |] | DIVISION 4.3 WATER EFFICIENC 4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND urinals) and fittings (faucets and showerheads) shall cor and 4.303.4.4. | FITTINGS. Plumbing fixtures (wate nply with the sections 4.303.1.1, 4.3 | TION er closets a 303.1.2, 4.3 |
| e, Chapter 2, to the building. xception: Electric vehicle charging static <i>alifornia Building Code</i> , Chapter 11B, are ection 4.106.4.2.2, Item 3. | ons designed and constructed in con e not required to comply with Sectior | npliance with the 4.106.4.2.1.1 and | | | Note: All noncompliant plumbing fixtures in any resident plumbing fixtures. Plumbing fixture replacement is completion, certificate of occupancy, or final perm Code Section 1101.1, et seq., for the definition of buildings affected and other important enactment | ial real property shall be replaced w s required prior to issuance of a cert it approval by the local building dep a noncompliant plumbing fixture, typ dates. | ith water-c ificate of fir artment. S pes of resid |
| lectric Vehicle charging stations serving <i>Code</i> , Chapter 11B. | public housing are required to comp | y with the <i>California</i> | | | 4.303.1.1 Water Closets. The effective flush volume of flush. Tank-type water closets shall be certified to the p Specification for Tank-type Toilets. | f all water closets shall not exceed [,] erformance criteria of the U.S. EPA | 1.28 gallon WaterSen |
| 2.2 Electric vehicle charging space (E d to comply with the following: | V space) dimensions. The EV spa | ce shall be | | | Note : The effective flush volume of dual flush toi of two reduced flushes and one full flush. | ets is defined as the composite, ave | erage flush |
| The minimum width of each EV space One in every 25 EV spaces, but not les wide minimum aisle. A 5-foot (1524 mi | shall be 9 feet (2743 mm). shall be 9 feet (2743 mm). ss than one EV space, shall have ar m) wide minimum aisle shall be perr | 8-foot (2438 mm) hitted provided the | | 1 | 4.303.1.2 Urinals. The effective flush volume of wall m The effective flush volume of all other urinals shall not e | ounted urinals shall not exceed 0.1 xceed 0.5 gallons per flush. | 25 gallons |
| minimum width of the EV space is 12 f a. Surface slope for this EV space | eet (3658 mm). and the aisle shall not exceed 1 uni | t vertical in 48 units | | | 4.303.1.3 Showerheads. 4.303.1.3.1 Single Showerhead. Showerheads | shall have a maximum flow rate of | not more th |
| horizontal (2.083 percent slope) | in any direction. | 1.11 | | | gallons per minute at 80 psi. Showerheads shall WaterSense Specification for Showerheads. | be certified to the performance crite | ria of the L |
| 2.3 Single EV space required. Install a icated branch circuit. The raceway shall r. The raceway shall originate at the mai box or enclosure in close proximity to the nts shall identify the raceway termination | listed raceway capable of accommon not be less than trade size 1 (nomina in service or subpanel and shall term e proposed location of the EV space point. The service panel and/or sub | dating a 208/240- al 1-inch inside ninate into a listed . Construction panel shall provide | | | 4.303.1.3.2 Multiple showerheads serving one showerhead, the combined flow rate of all the sho a single valve shall not exceed 1.8 gallons per mi allow one shower outlet to be in operation at a tim | shower . When a shower is served owerheads and/or other shower outle nute at 80 psi, or the shower shall b ne. | by more thets controll e designed |
| to install a 40-ampere minimum dedicate on of a branch circuit overcurrent protect | ed branch circuit and space(s) reser ive device. | ved to permit | | 1 | Note: A hand-held shower shall be consid 4.303.1.4 Faucets. | ered a showerhead. | |
| 2.4 Multiple EV spaces required. Consider the point and proposed location of future or provide information on amperage of full load calculations to verify that the electing any on-site distribution transformer(s), I | struction documents shall indicate the EV spaces and EV chargers. Consi- ture EVSE, raceway method(s), wiring rical panel service capacity and elect have sufficient capacity to simultane | e raceway ruction documents ng schematics and trical system, ously charge all EVs | | | 4.303.1.4.1 Residential Lavatory Faucets. The not exceed 1.2 gallons per minute at 60 psi. The not be less than 0.8 gallons per minute at 20 psi. | e maximum flow rate of residential la minimum flow rate of residential lav | vatory fauce atory fauce |
| uired EV spaces at the full rated ampera ere minimum branch circuit. Required rac underground, enclosed, inaccessible or | age of the EVSE. Plan design shall b ceways and related components that in concealed areas and spaces sha | e based upon a are planned to be I be installed at the | | | 4.303.1.4.2 Lavatory Faucets in Common and faucets installed in common and public use areas buildings shall not exceed 0.5 gallons per minute | Public Use Areas. The maximum (outside of dwellings or sleeping ur at 60 psi. | flow rate of hits) in resid |
| original construction. 2.5 Identification. The service panel or a device space (s) recorved for future EV | subpanel circuit directory shall ident | fy the overcurrent | | | 4.303.1.4.3 Metering Faucets. Metering faucets more than 0.2 gallons per cycle. | s when installed in residential buildir | igs shall no |
| California Electrical Code. | Charging purposes as EV CAPAD | | | | 4.303.1.4.4 Kitchen Faucets. The maximum flo per minute at 60 psi. Kitchen faucets may tempo to exceed 2.2 gallons per minute at 60 psi, and m | w rate of kitchen faucets shall not e rarily increase the flow above the ma ust default to a maximum flow rate (| xceed 1.8 g aximum rat |
| 3 New hotels and motels. All newly co of supporting future installation of EVSE V spaces. | nstructed hotels and motels shall pro- . The construction documents shall | ovide EV spaces dentify the location | | | Note: Where complying faucets are unavailable, | aerators or other means may be us | ed to achie |
| Construction documents are intended to or facilitating future EV charging. There is no requirement for EV spaces | o demonstrate the project's capabilit to be constructed or available until l | y and capacity EV chargers | | | reduction. 4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FIT in accordance with the <i>California Plumbing Code</i> , and s 1701.1 of the <i>California Plumbing Code</i> . | TINGS. Plumbing fixtures and fitting hall meet the applicable standards r | gs shall be eferenced |
| are installed for use. 106.4.3.1 Number of required EV spac In the total number of parking spaces prov able 4.106.4.3.1. Calculations for the req | es. The number of required EV spa vided for all types of parking facilities uired number of EV spaces shall be | ices shall be based in accordance with rounded up to the | | | NOTE: THIS TABLE COMPILES THE DATA I IS INCLUDED AS A CONVENIENCE F | N SECTION 4.303.1, AND FOR THE USER. | |
| TABLE 4.106.4.3.1 | | | | | TABLE - MAXIMUM FIXTUR | RE WATER USE | |
| TOTAL NUMBER OF PARKING | NUMBER OF REQUIRED EV | | | | SHOWER HEADS | 1.8 GMP @ 80 PSI | |
| 0-9 | 0 | | | | (RESIDENTIAL) LAVATORY FAUCETS (RESIDENTIAL) | MAX. 1.2 GPM @ 60 PSI MIN_0.8 GPM @ 20 PSI | |
| 10-25 | 1 | | | | LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS | 0.5 GPM @ 60 PSI | |
| 26-50 | 2 | | | | KITCHEN FAUCETS | 1.8 GPM @ 60 PSI | |
| 51-75 | 4 | | | | METERING FAUCETS WATER CLOSET | 0.2 GAL/CYCLE 1.28 GAL/FLUSH | |
| 101-150 | 5 7 | | | | URINALS | 0.125 GAL/FLUSH | |
| 151-200 | 10 | | | | | | |
| 201 and over Electric vehicle charging space (EV sp | 6 percent of total | shall be designed to | |] | 4.304 OUTDOOR WATER USE 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPI a local water efficient landscape ordinance or the current Calife | E AREAS. Residential development | ts shall cor es' Model \ |
| the following: Fhe minimum length of each EV space sl | nall be 18 feet (5486mm). | | | | Efficient Landscape Ordinance (MWELO), whichever is more s | stringent. | |
| The minimum width of each EV space sh Single EV space required. When a sing | all be 9 feet (2743mm) gle EV space is required, the EV spa | ace shall be designed | | | The Model Water Efficient Landscape Ordinance (M Title 23, Chapter 2.7, Division 2. MWELO and support | NELO) is located in the <i>California C</i> rting documents, including water bu | ode Regul dget calcul |
| e with Section 4.106.4.2.3. | ultiple EV spaces are required, the E | V spaces shall be | | | available at: https://www.water.ca.gov/ | | |
| accordance with Section 4.106.4.2.4. | h namala aball ba idantifiad in accord | lense with Costien | | | | | |
| Gentification. The service panels of su | p-panels shall be identified in accord | lance with Section | | | | | |
| Accessible EV spaces. In addition to th s and all EVSE, when installed, shall con be California Building Code. Chapter 11B | ne requirements in Section 4.106.4.3 Apply with the accessibility provisions | , EV spaces for for the EV charging | | | | | |
| | | | | | | | |
| 2 ENERGY EFFICIEN | СҮ | | | | | | |
| L | ency standards in this code, the Cal | ifornia Energy | | | | | |
| continue to adopt mandatory standards. | , - | 55 | | | | | |
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| | | DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY |
| .3, |] | 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 against |
| ivil |] | 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. Exceptions: |
| me ush. | | Excavated soil and land-clearing debris. 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 close to the jobsite. The enforcing agency may make exceptions to the requirements of this section when isolated is being agency may make exceptions to the requirements of this section when isolated |
| .8 |] | 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 proceeding and shall be updated as proceeding. |
| ne / nly | | 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. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream). Identify diversion facilities where the construction and demolition waste material collected will be |
| | | taken. Identify construction methods employed to reduce the amount of construction and demolition waste generated. Specify that the amount of construction and demolition waste materials diverted shall be calculated because but not by both |
| all | | 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. |
| tory al | | Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company. |
| ver 🗆 | | 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 Section 4.408.1 |
| r | | 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 requirement in Section 4.408.1 |
| led ple | | 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 Notes: |
| | | 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. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). |
| C | _ | 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: |
| | | Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure. 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. Public transportation and/or carpool options available in the area. 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 water. |
| vith | | Instructions for maintaining gutters and downspouls and the importance of diverting water at least 5 feet away from the foundation. Information on required routine maintenance measures, including, but not limited to, caulking, a statement of the building statement of the buildi |
| | | Information about state solar energy and incentive programs available. A copy of all special inspections verifications required by the enforcing agency or this code. |
| s, E are | | 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 this section. |
| | | DIVISION 4.5 ENVIRONMENTAL QUALITY |
| | | SECTION 4.501 GENERAL 4.501.1 Scope 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 5.102.1 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 cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements. |
| | | COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1. |
| 1 | | 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. |
| | | |

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2019 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2020, Includes August 2019 Supplement)

| Y | N/A | RESPON. PARTY | | | Y N/A RESPON. PARTY |
|---|-----|------------------|--|---|------------------------|
| | | | | | |
| | | | MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum chan compound to the "Base Reactive Organic Gas (ROG) Mixture" per we | ge in weight of ozone formed by adding a ight of compound added, expressed to | |
| | | | hundredths of a gram (g O ³ /g ROC). Note: MIR values for individual compounds and hydrocarbon solvents and 94701 | are specified in CCR, Title 17, Sections 94700 | |
| | | | MOISTURE CONTENT. The weight of the water in wood expressed in | n percentage of the weight of the oven-dry wood. | |
| | | | PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR article. The PWMIR is the total product reactivity expressed to hundre | for all ingredients in a product subject to this dths 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 | e 17, Section 94521 (a). | |
| | | | REACTIVE ORGANIC COMPOUND (ROC). Any compound that has ozone formation in the troposphere. | the potential, once emitted, to contribute to | |
| | | | VOC. A volatile organic compound (VOC) broadly defined as a chemi | cal compound based on carbon chains or rings | |
| | | | with vapor pressures greater than 0.1 millimeters of mercury at room the 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 | |
| | | | applicable, and shall have a permanent label indicating they are certific pellet stoves and fireplaces shall also comply with applicable local ord | ied to meet the emission limits. Woodstoves, linances. | |
| _ | _ | | 4.504 POLLUTANT CONTROL | | |
| | | | CONSTRUCTION. At the time of rough installation, during storage or startup of the heating, cooling and ventilating equipment, all duct and | the construction site and until final other related air distribution component | |
| | | | openings shall be covered with tape, plastic, sheet metal or other met reduce the amount of water, dust or debris which may enter the system | hods acceptable to the enforcing agency to m. | |
|] | | | 4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materia | als shall comply with this section. | |
| | | | 4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealar requirements of the following standards unless more stringent le | ant and caulks used on the project shall meet the ocal or regional air pollution or air quality | |
| | | | management district rules apply: 1. Adhesives, adhesive bonding primers, adhesive prim | ers, sealants, sealant primers and caulks | |
| | | | shall comply with local or regional air pollution contro applicable or SCAQMD Rule 1168 VOC limits, as sho Such products also shall comply with the Duils 1100 | I or air quality management district rules where own in Table 4.504.1 or 4.504.2, as applicable. | |
| | | | compounds (chloroform, ethylene dichloride, methyle tricloroethylene), except for aerosol products, as spe | cified in Subsection 2 below. | |
| | | | 2. Aerosol adhesives, and smaller unit sizes of adhesive | es, and sealant or caulking compounds (in | |
| | | | than 16 fluid ounces) shall comply with statewide VO prohibitions on use of certain toxic compounds, of <i>Ca</i> | C standards and other requirements, including alifornia Code of Regulations, Title 17, | |
| | | | commencing with section 94507. | ngs shall comply with VOC limits in Table 1 of | |
| | | | the ARB Architectural Suggested Control Measure, as shown in apply. The VOC content limit for coatings that do not meet the | Table 4.504.3, unless more stringent local limits definitions for the specialty coatings categories | |
| | | | listed in Table 4.504.3 shall be determined by classifying the co coating, based on its gloss, as defined in subsections 4.21, 4.36 Board, Suggested Control Measure, and the corresponding Elas | bating as a Flat, Nonflat or Nonflat-High Gloss 6, and 4.37 of the 2007 California Air Resources | |
| | | | Table 4.504.3 shall apply. | | |
| | | | 4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and c Limits for ROC in Section 94522(a)(2) and other requirements, compounds and ozone depleting substances in Sections 9452 | coatings shall meet the Product-weighted MIR including prohibitions on use of certain toxic 2(a)(1) and (f)(1) of <i>California</i> Code of | |
| | | | <i>Regulations</i> , Title 17, commencing with Section 94520; and in a Quality Management District additionally comply with the percent | areas under the jurisdiction of the Bay Area Air nt VOC by weight of product limits of Regulation | |
| _ | _ | | 8, Rule 49. | tion shall be provided at the request of the | |
| | | | enforcing agency. Documentation may include, but is not limite | ed to, the following: | |
| | | | Manufacturer's product specification. Field verification of on-site product containers. | | |
| | | | | | |
| | | | TABLE 4.504.1 - ADHESIVE VOC LIMI | T _{1,2} | |
| | | | ARCHITECTURAL APPLICATIONS | VOC LIMIT | |
| | | | INDOOR CARPET ADHESIVES | 50 | |
| | | | OUTDOOR CARPET ADHESIVES | 150 | |
| | | | WOOD FLOORING ADHESIVES | 100 | |
| | | | RUBBER FLOOR ADHESIVES | 60 | |
| | | | CERAMIC TILE ADHESIVES | 65 | |
| | | | VCT & ASPHALT TILE ADHESIVES | 50 | |
| | | | DRYWALL & PANEL ADHESIVES | 50 | |
| | | | MULTIPURPOSE CONSTRUCTION ADHESIVE | 70 | |
| | | | STRUCTURAL GLAZING ADHESIVES | 100 | |
| | | | SINGLE-PLY ROOF MEMBRANE ADHESIVES | 250 | |
| | | | SPECIALTY APPLICATIONS | | |
| | | | PVC WELDING | 510 | |
| | | | | 490 | |
| | | | PLASTIC CEMENT WELDING | 250 | |
| | | | ADHESIVE PRIMER FOR PLASTIC | 550 | |
| | | | CONTACT ADHESIVE | <u>80</u> 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 | |
| | | | FIBERGLASS | 80 | |
| | | | | | |
| | | | 1. IF AN ADHESIVE IS USED TO BOND DISSIMILA THE ADHESIVE WITH THE HIGHEST VOC CONTE | AR SUBSTRATES TOGETHER, ENT SHALL BE ALLOWED. | |
| | | | 2. FOR ADDITIONAL INFORMATION REGARDING THE VOC CONTENT SPECIFIED IN THIS TARK F | G METHODS TO MEASURE SEE SOUTH COAST AIR | |
| | | | QUALITY MANAGEMENT DISTRICT RULE 1168. | , , , , , , , , , , , , , , , , | |

TABLE (Less Wa SEALAN ARCHIT MARINE NONME ROADW SINGLE OTHER SEALAN ARCHIT NON-PORC MODIFIE MARINE OTHER

TAB ARC GRAM COMF COAT FLAT NON-I NONF SPEC ALUM BASE BITUM BASE BITUM BOND CONC CONC CONC DRIVE DRY F FAUX

FLOOF FORM GRAPI HIGH INDUS LOW S MAGN MASTI METAI MULTI PRETF PRIME REAC RECYC ROOF RUST SHELL CLEAF OPAQ SPECI UNDEI STAIN STONI STONI

1. GR EXEMI

| E 4.504.2 - SEALANT VOC LIM | IT |
|--|---------------|
| ater and Less Exempt Compounds in Grar | ns per Liter) |
| NTS | VOC LIMIT |
| ECTURAL | 250 |
| DECK | 760 |
| MBRANE ROOF | 300 |
| ΙΑΥ | 250 |
| -PLY ROOF MEMBRANE | 450 |
| | 420 |
| NT PRIMERS | |
| ECTURAL | |
| -POROUS | 250 |
| OUS | 775 |
| ED BITUMINOUS | 500 |
| DECK | 760 |
| | 750 |

| CHITECTURAL COATINGS | SFUR |
|--|---------------------|
| MS OF VOC PER LITER OF COATING, LESS V POUNDS | VATER & LESS EXEMPT |
| TING CATEGORY | VOC LIMIT |
| COATINGS | 50 |
| -FLAT COATINGS | 100 |
| FLAT-HIGH GLOSS COATINGS | 150 |
| CIALTY COATINGS | |
| MINUM ROOF COATINGS | 400 |
| EMENT SPECIALTY COATINGS | 400 |
| MINOUS ROOF COATINGS | 50 |
| MINOUS ROOF PRIMERS | 350 |
| D BREAKERS | 350 |
| CRETE CURING COMPOUNDS | 350 |
| CRETE/MASONRY SEALERS | 100 |
| EWAY SEALERS | 50 |
| FOG COATINGS | 150 |
| | 350 |
| RESISTIVE COATINGS | 350 |
| | 100 |
| | 250 |
| | 500 |
| | 420 |
| | 250 |
| | 230 |
| | 120 |
| | 450 |
| | 100 |
| | 500 |
| | 250 |
| | 420 |
| IERS, SEALERS, & UNDERCOATERS | 100 |
| CTIVE PENETRATING SEALERS | 350 |
| YCLED COATINGS | 250 |
| F COATINGS | 50 |
| T PREVENTATIVE COATINGS | 250 |
| LACS | |
| AR | 730 |
| QUE | 550 |
| CIALTY PRIMERS, SEALERS & | 100 |
| NS | 250 |
| NE CONSOLIDANTS | 450 |
| /MING POOL COATINGS | 340 |
| FIC MARKING COATINGS | 100 |
| & TILE REFINISH COATINGS | 420 |
| ERPROOFING MEMBRANES | 250 |
| DD COATINGS | 275 |
| D PRESERVATIVES | 350 |
| -RICH PRIMERS | 340 |
| | UDING WATER & |

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.

| | | (| | ···· | OWNER, CONTRACTOR, INSPECTOR ETC.) |
|---|-----------|------------------|--|-----------------------|--|
| Y | N/A | RESPON. PARTY | | Y N/A RESPON PARTY | |
| | \square | | | | |
| | | | TABLE 4.504.5 - FORMALDEHYDE LIMITS | | CHAPTER 7 |
| | | | MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION | | INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS |
| | | | PRODUCT CURRENT LIMIT | | 702 QUALIFICATIONS |
| | | | HARDWOOD PLYWOOD VENEER CORE 0.05 | | IVZ.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 |
| | | | HARDWOOD PLYWOOD COMPOSITE CORE 0.05 | | 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. |
| | | | PARTICLE BOARD 0.09 | | Examples of acceptable HVAC training and certification programs include but are not limited to the following: |
| | | | MEDIUM DENSITY FIBERBOARD 0.11 | | State certified apprenticeship programs. Public utility training programs. |
| | | | 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED | | Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations. |
| | | | BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE | | 5. Other programs acceptable to the enforcing agency. |
| | | | WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. | | /U2.2 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 |
| | | | 93120.12. | | 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 |
| | | | 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM) | | 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. |
| | | | | | 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. Other programs acceptable to the enforcing agency. |
| | | | DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the testing and product | | Notes: |
| F | | | requirements of at least one of the following: | | Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. |
| | | | Carpet and Rug Institute's Green Label Plus Program. California Department of Public Health. "Standard Method for the Testing and Evaluation of Volatile | | 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). |
| | | | Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1, February 2010 (also known as Specification 01350). | | [BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall |
| | | | NSF/ANSI 140 at the Gold level. Scientific Certifications Systems Indoor Advantage™ Gold | | 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 |
| | | | 4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet 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 |
| | | | requirements of the Carpet and Rug Institute's Green Label program. | | shall be closely related to the primary job function, as determined by the local agency. |
| | | | 4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1. | | 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. |
| | | | 4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall comply with one or more of the following: | | |
| | | | 1. Products compliant with the California Department of Public Health, "Standard Method for the Testing and | | 703 VERIFICATION |
| | | | Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material | | Imited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing acceptable to the enforcement of the enforcement |
| | | | in the Collaborative for High Performance Schools (CHPS) High Performance Products Database. 2. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children & Schools program). | | documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist |
| | | | Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program. Meet 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 1.1, February 2010 (also known as Specification 01350). | | |
| | | | 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: | | |
| | | | 1. 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.).4. 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 <i>California Building Standards Code</i> . | | |
| | | | 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 | | |
| | | _ | following: | | |
| | | | 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, | | |
| | | | snrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06. | | |
| | | | Outer equivalent methods approved by the enforcing agency. 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 analoged when the framing members are stated to a second state of the second state o | | |
| | | | 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 (1210 mm) from the grade stamped and | | |
| | | | of each piece verified. 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 enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drving | | |
| | | | recommendations prior to enclosure. | | |
| | | | 4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the | | |
| | | | following: | | |
| | | | Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a | | |
| | | | humidity control. | | |
| | | | 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 | | |
| | | | adjustment. b. A humidity control may be a separate component to the exhaust fan and is not required to be | | |
| | | | Integral (I.e., built-in) | | |
| | | | | | |
| | | | For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination. Lighting integral to bethroom exhaust fore shell as which the Outline integral to bethroom exhaust fore shell as which the Outline integral to be throom of the outline integral to be throom on the outline integral to be through the outline integral to be throom on the outline integral to be through the outline integral to be the outline integral t | | |
| | | | | | |
| C | | | 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/ΔCCΔ 2 Manual L- 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 acceptable. | | |
| | | | | | |
| | | | | | |

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Y N/A RESPON PARTY



LEGEND



TREE TO BE REMOVED

GENERAL NOTES

- 1. PLANS PREPARED AT THE REQUEST OF:
- STANELY PENG, OWNER 2. TOPOGRAPHY BY B&H SURVEYING, SURVEYED AUGUST, 2018.
- 3. THIS IS NOT A BOUNDARY SURVEY.
- 4. ELEVATION DATUM ASSUMED.

5. THE GEOTECHNICAL REPORT: GEOTECHNICAL REPORT FOR PROPOSED SINGLE FAMILY DWELLING, APN 047-218-280: DATE: APRIL 16. 2019. BY SIGMA PRIME GEOSCIENCES. PROJECT NO. 19-105 SHALL BE RETAINED ON THE CONSTRUCTION SITE. THE GEOTECHNICAL ENGINEER OF RECORD IS SIGMA PRIME GEOSCIENCES. WITH THE CONTACT NUMBER (650) 728-3590. THE CONTRACTOR MUST SHALL NOTIFY THE GEOTECHNICAL ENGINEER OF RECORD AT LEAST 48 HOURS BEFORE CONSTRUCTION OF GEOTECHNICAL RELATED WORK. THE GEOTECHNICAL PART OF CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO, ALL THE EARTHWORK AND FOUNDATION CONSTRUCTIONS MUST SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD. 6. STORMWATER MANAGEMENT CONSTRUCTION INSPECTIONS SHALL BE SCHEDULED FOR APPLICABLE DRAINAGE INSPECTIONS, WHICH INCLUDE SITE CLEARANCE AND EROSION CONTROL MEASURES INSTALLATION AS WELL AS INSPECTION OF MAJOR DRAINAGE CONTAINMENT, TREATMENT, AND CONVEYANCE DEVICES BEFORE BEING BURIED (INCLUDING REQUIRED MATERIAL LABELS, E.G. PIPES, SUB-GRADE MATERIALS, ETC.). PLEASE CALL SIGMA PRIME (650-728-3590) TO SCHEDULE DRAINAGE INSPECTIONS. 7. ALL WORK IN PUBLIC RIGHT-OF-WAY REQUIRES THE APPLICANT TO ACQUIRE AN ENCROACHMENT WITH THE COUNTY OF SAN MATEO PUBLIC WORKS DEPARTMENT.

DRAINAGE NOTES

1. DRAINAGE INTENT: IT IS THE INTENT OF THE DRAINAGE SYSTEM TO CONVEY ROOF RUNOFF TO A SAFE LOCATION, AND TO MINIMIZE EXCESSIVE MOISTURE AROUND FOUNDATIONS. DIRECT SLOPES SUCH THAT STORMWATER WILL NOT BE DIVERTED ONTO ADJACENT PROPERTIES.

2. ALL DOWNSPOUT DRAIN LINES SHALL LEAD TO DETENTION BASIN, AS SHOWN. THE DETENTION BASIN SHALL BE WATER-TIGHT AND DRAIN TO AN ENERGY DISSIPATER, AS SHOWN.

3. ALL ROOF DRAINAGE PIPES SHALL BE 4" DIAMETER MINIMUM SOLID PIPE, SLOPED AT 1% MINIMUM.

4. IT IS THE PROPERTY OWNER'S RESPONSIBILITY TO CHECK ON ALL STORMWATER FACILITIES SUCH AS ROOF GUTTERS, DOWNSPOUT LINES, AND THE DETENTION BASIN/ENERGY DISSIPATER TO BE SURE THAT THEY ARE CLEAR OF EXCESSIVE DEBRIS AND OPERATING EFFICIENTLY. THE FACILITIES SHALL BE CHECKED EVERY FALL AND PERIODICALLY DURING THE RAINY SEASON.

GRADING NOTES

CUT VOLUME : 335 CY (FOR FOUNDATION, DRIVEWAY) FILL VOLUME: 0 CY

VOLUMES ABOVE ARE APPROXIMATE.

THE SUBGRADE BELOW ALL PAVED AREAS SHALL BE BASEROCK COMPACTED TO 95%.

ALL GRADING SHALL CONFORM TO LOCAL CODES AND ORDINANCES.

ALL TRENCHES UNDER PROPOSED PAVED AREAS OR CONCRETE SHALL BE BACKFILLED TO SUBGRADE ELEVATION WITH COMPACTED APPROVED GRANULAR MATERIALS. IF TRENCHES ARE IN PROPOSED LANDSCAPE AREAS, THEY SHALL BE BACKFILLED WITH COMPACTED APPROVED GRANULAR MATERIAL TO WITHIN ONE FOOT OF FINISHED GRADE, AND THEN FILLED WITH HAND TAMPED SOILS.













EROSION CONTROL POINT OF CONTACT

THIS PERSON WILL BE RESPONSIBLE FOR EROSION CONTROL AT THE SITE AND WILL BE THE COUNTY'S MAIN POINT OF CONTACT IF CORRECTIONS ARE REQUIRED.

NAME: _____STANLEY PENG

TITLE/QUALIFICATION: OWNER

PHONE: _____408-242-7503_

PHONE:

GOTSUREALESTATE@GMAIL.COM E-MAIL:



TREE PROTECTION NOTES

1. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY GRADING AND REMAIN ON-SITE THROUGHOUT CONSRUCTION PROCESS.

2. TREE PROTECTION FENCES SHALL BE INSTALLED AS CLOSE TO DRIP LINES AS POSSIBLE.

3. OWNER/BUILDER SHALL MAINTAIN TREE PROTECTION ZONES FREE OF EQUIPMENT AND MATERIALS STORAGE AND SHALL NOT CLEAN ANY EQUIPMENT WITHIN THESE AREAS.

4. ANY LARGE ROOTS THAT NEED TO BE CUT SHALL BE INSPECTED BY A CERTIFIED ARBORIST OR **REGISTERED FORESTER PRIOR TO CUTTING, AND** MONITORED AND DOCUMENTED.

5. ROOTS TO BE CUT SHALL BE SEVERED WITH A SAW OR TOPPER.

6. PRE-CONSTRUCTION SITE INSPECTION WILL BE **REQUIRED PRIOR TO ISSUANCE OF BUILDING** PERMIT.



GENERAL EROSION AND SEDIMENT CONTROL NOTES

• There will be no stockpiling of soil. All excavated soil will be hauled off-site as it is excavated.

- · Perform clearing and earth-moving activities only during dry weather. Measures to ensure adequate erosion and sediment control shall be installed prior to earth-moving activities and construction.
- Erosion control materials to be on-site during off-season.
- Measures to ensure adequate erosion and sediment control are required year-round. Stabilize all denuded areas and maintain erosion control measures continuously between October 1 and April 30.
- Store, handle, and dispose of construction materials and wastes properly, so as to prevent their contact with stormwater.
- Control and prevent the discharge of all potential pollutants, including pavement cutting wastes, paints, concrete, petroleum products, chemicals, wash water or sediments, and non-stormwater discharges to storm drains and watercourses.
- Avoid cleaning, fueling, or maintaining vehicles on-site, except in a designated area where wash water is contained and treated
- · Limit and time applications of pesticides and fertilizers to prevent polluted runoff.
- Limit construction access routes to stabilized, designated access points
- Avoid tracking dirt or other materials off-site; clean off-site paved areas and sidewalks using dry sweeping methods.
- Train and provide instruction to all employees and subcontractors regarding the Watershed Protection Maintenance Standards and construction Best Management Practices.

No. 62264

9-30-23 EXPIRES

SIGMA PRIME GEOSCIENC
 332 PRINCETON AVENUE
 HALF MOON BAY, CA 9401(
 (650) 728-3590
 FAX 728-3593

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- Placement of erosion materials is required on weekends and during rain events.
- The areas delineated on the plans for parking, grubbing, storage etc., shall not be enlarged or "run over."
- Dust control is required year-round.
- · Erosion control materials shall be stored on-site.





Prevention Program Clean Water. Healthy Community.

Materials & Waste Management

Non-Hazardous Materials

Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.

Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- General Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not
- apply chemicals outdoors when rain is forecast within 24 hours. Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base
- materials, wood, gyp board, pipe, etc.) Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and
- sediment discharges from site and tracking off site. Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Equipment Management & Spill Control

2

Maintenance and Parking

- Designate an area. fitted with appropriate BMPs, for vehicle and equipment parking and storage. Perform major maintenance, repair jobs, and vehicle
- and equipment washing off site. □ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains
- and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste. □ If vehicle or equipment cleaning must be done onsite,
- clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- Do not clean vehicle or equipment onsite using soaps. solvents, degreasers, or steam cleaning equipment.

Spill Prevention and Control Keep spill cleanup materials (e.g., rags, absorbents and

- cat litter) available at the construction site at all times. Inspect vehicles and equipment frequently for and
- repair leaks promptly. Use drip pans to catch leaks until repairs are made. Clean up spills or leaks immediately and dispose of
- cleanup materials properly. Do not hose down surfaces where fluids have spilled.
- Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them. Clean up spills on dirt areas by digging up and
- properly disposing of contaminated soil. Report significant spills immediately. You are required by law to report all significant releases of hazardous
- materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthmoving



- Schedule grading and excavation work during dry weather. □ Stabilize all denuded areas, install and
- maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins,
- gravel bags, berms, etc. Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils □ If any of the following conditions are

- observed, test for contamination and contact the Regional Water Quality Control Board: - Unusual soil conditions, discoloration,
- or odor. - Abandoned underground tanks.
- Abandoned wells - Buried barrels, debris, or trash.

Storm drain polluters may be liable for fines of up to \$10,000 per day!

Paving/Asphalt Work



Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff. Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry

- seal, fog seal, etc. □ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters. Do not use water to wash down fresh
- asphalt concrete pavement. Sawcutting & Asphalt/Concrete Removal Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin
- inlet filters, or gravel bags to keep slurry out of the storm drain system. □ Shovel, abosorb, or vacuum saw-cut slurry and dispose of all waste as soon
- as you are finished in one location or at the end of each work day (whichever is sooner!).
- □ If sawcut slurry enters a catch basin. clean it up immediately.

Concrete, Grout & Mortar Application



- □ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- □ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage
- When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.



- Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round. Stack bagged material on pallets and
- under cover. Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

L Construed by the architect, shall remain his property. They are to be used on any other project is not to be used on any other project is not to be used on any other project and are not to be used on any other reserved rights. The architect is not to be used on any other project is not to be used on any other reserved rights. The architect is not to be used on any other project is not to be used on any other reserved rights.

Painting & Paint Removal

- Painting Cleanup and Removal Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- G For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer.
- Never pour paint down a storm drain. G For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- Department Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributy/ltin must be disposed of as hazardous waste. Lead based paint removal requires a statecertified contractor.

Dewatering



- Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant. Divert run-on water from offsite away
- from all disturbed areas. When dewatering, notify and obtain
- approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required. In areas of known or suspected
- contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.



Protect water guality during installation, cleaning, treating, and washing!

Copper from Buildings May Harm Aquatic Life Copper can harm aquatic life in San Francisco Bay. Water that comes into contact with architectural copper may contribute to impacts, especially during installation, cleaning, treating, or washing. Patination solutions that are used to obtain the desired shade of green or brown typically contain acids. After treatment, when the copper is rinsed to remove these acids, the rinse water is a source of pollutants. Municipalities prohibit discharges to the storm drain of water used in the installation, cleaning, treating and washing of architectural copper.

gutter and drainpipe. Use Best Management Practices (BMPs) The following Best Management Practices (BMPs) must be implemented to prevent prohibited discharges to storm drains. During Installation

- proper disposal.
- less maintenance.

During Maintenance

Block storm drain inlets as needed to prevent runoff from entering storm drains.

Protect the Bay/Ocean and yourself!

If you are responsible for a discharge to the storm drain of nonstormwater generated by installing, cleaning, treating or washing copper architectural features, you are in violation of the municipal stormwater ordinance and may be subject to a fine.

Contact Information

Requirements for Architectural Copper



If possible, purchase copper materials that have been pre-patinated at the factory.

If patination is done on-site, implement one or more of the following BMPs:

o Discharge the rinse water to landscaping. Ensure that the rinse water does not flow to the street or storm drain. Block off storm drain inlet if needed.

o Collect rinse water in a tank and pump to the sanitary sewer. Contact your local sanitary sewer agency before discharging to the sanitary sewer.

o Collect the rinse water in a tank and haul off-site for

· Consider coating the copper materials with an impervious coating that prevents further corrosion and runoff. This will Storm drain inlet is blocked to prevent also maintain the desired color for a longer time, requiring prohibited discharge. The water must be



pumped and disposed of properly.

Implement the following BMPs during routine maintenance activities, such as power washing the roof, re-patination or re-application of impervious coating:

• Discharge the wash water to landscaping or to the sanitary sewer (with permission from the local sanitary sewer agency). If this is not an option, haul the wash water off-site for proper disposal.



The San Mateo Countywide Water Pollution Prevention Program lists municipal stormwater contacts at www.flowstobay.org (click on "Business", then "New Development", then "local permitting agency"). FINAL February 29, 2012

| EDWARI | D C. LO | VE, AR | | |
|---------------------------|-----------------------|--|----------------|---------------------------|
| Edward C. Love | Architect | T20 MILL STREET HALF MOON BAY CA 94019 | (650) 728-7615 | edwardclovearch@gmail.com |
| New Residence for | Gotsu Inc. | 568 Ferdinand Ave | FL Granada CA | |
| | Best Management | Practices | | |
| DATE: SCALE: DRAWN: | No. Ca Ren. 3/2 | ARCK C. LO 23077 1/31/21 2.1/2.3 | | |
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REVISIONS









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| Second Floor PlanNew Residence for Gotsu Inc.Edward C. Love ArchitectEdward C. Love ArchitectSecond Floor PlanGotsu Inc.Architect T20 MIL STREETEl Granada, CA(550) 728-7615 (550) 728-7615Architect (550) 728-7615 | R | EVIS | SIO | NS | | |
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| Second Floor Plan 568 Ferdinand Ave El Granada, CA El Granada, CA El Granada, CA | | | | | | |
| New Residence for Cotsu Inc. Edward C. Love Second Floor Plan Gotsu Inc. 568 Ferdinand Ave Architect 720 MIL STRET MAF MOON BAY, CA 94019 (550) 728-7615 | | | | | | |
| New Residence for Cotsu Inc. Edward C. Love Edward C. Love Second Floor Plan Gotsu Inc. Architect 568 Ferdinand Ave Indremon Bay, ca 94019 (650) 728-7615 Indremon Bay, ca 94019 (650) 728-7615 | / | | | | | |
| New Residence for Edward C. Love New Residence for Edward C. Love Second Floor Plan Cotsu Inc. 568 Ferdinand Ave Architect 568 Ferdinand Ave HALF MOON BAY, CA 94019 650728-7615 (550) 728-7615 | | | | e | L | |
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| Second Floor Plan 568 Ferdinand Ave El Granada, CA | Edward C. Lov | Architect | 720 MILL STREET | HALF MOON BAY, CA 94015 | (650) 728-7615 | edwardclovearch@gmail.com |
| Second Floor Plan | New Residence for | Gotsu Inc. | | JOG I CICILIAILO AVC | Fl Granada CA | |
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SHEETS

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HARDIE LAP SIDING WATERPROOF MEMBRANE OVER 1/2" PLY 2xG STUD, INSULATED 5/8" GWB

HARDIE LAP SIDING WATERPROOF MEMBRANE OVER 1/2" PLY 2x6 STUD (2x8 STUD ON FRONT WALL) 5/8" TYPE-X GWB

5/8" GWB

5/8" GWB 5/8" GWB

2x6 STUD, INSULATED 5/8" TYPE-X GWB

5/8" TYPE-X GWB

F CONCRETE



Roof Plan Notes

<u>Solar:</u> 1. Systems shall meet requirements of the 2019 C.F.C. Sect. 605.11

2. 3' Min. Clr. from PV Panels to edge of roof at sides and ridge

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<u>Roofing:</u> I . Roofing to be Certainteed Landmark TL Solaris Moire Black (Class-B Min)





| | Area Schedule | | | | | |
|-------------------|---------------|----------------------------------|--|--|--|--|
| Name | Area | Comments | | | | |
| Level 0.5 - Gara | age | | | | | |
| Garage | 479 SF | Floor Area/104 sqft Lot Coverage | | | | |
| Level I - First F | loor | | | | | |
| Bath I | 48 SF | Floor Area/Lot Coverage | | | | |
| Bedroom | 167 SF | Floor Area/Lot Coverage | | | | |
| Entry/Office | 195 SF | Floor Area/Lot Coverage | | | | |
| Family Room | 329 SF | Floor Area/Lot Coverage | | | | |
| Hallway | 120 SF | Floor Area/Lot Coverage | | | | |
| Master Suite | 300 SF | Floor Area/Lot Coverage | | | | |
| Level 2 - Secon | id Floor | | | | | |
| Bath2 | 49 SF | Floor Area | | | | |
| Living Area | 804 SF | Floor Area | | | | |
| Media Room | 138 SF | Floor Area | | | | |
| Window Seat | IG SF | Lot Coverage | | | | |

| LOL COVERAG | 5. |
|---|---|
| Garage | 104 |
| First Floor | · 1159 |
| Second F | <u>oor</u> <u>16</u> |
| Та | otal: 1279 |
| | |
| Floor Area . | |
| TIOUL ALEA . | |
| Garage | 479 |
| Garage First Floor | 479 1159 |
| Garage First Floor Second Fl | 479 - 1159 <u>oor 991</u> |
| Garage First Floor <u>Second Fl</u> To | 479 1159 <u>oor 991</u> otal: 2629 |



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REVISIONS PER PLAN CHECK COMMENTS

CRAWLSPACE VENTILATION CALCULATION

| Total Crawlspace Area (CA) = | 820 sqft |
|-----------------------------------|-------------|
| Ventilation required (CA / 150) = | 5.5 sqft |
| Number of vents @ 1.125 sqft ea = | 9 |
| Ventilation Area = | 10.125 sqft |
| Total Atticspace Area (AA) = | 60 sqft |
| Ventilation required (AA / 150) = | .4 sqft |
| Number of vents @ 2 sqft = | l |
| Ventilation Area = | 2 sqft |

EXTERIOR LIGHTING TO BE RECESSED INTO SOFFITS EXCEPT FOR V DARK SKY FIXTURE OVER GARAGE SIDE DOOR AND ON LEFT AND RIGHT SIDE OF FRONT SLIDER DOOR.

ARCHITECTURAL ARTICULATION IS USED FOR DESIGN.

MINIMUM OF 80" VERTICAL HEADROOM SHALL BE MAINTAINED AT THE STAIRS

INSULATION NOTES:

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| ROOF | : | R30 (MIN) |
|------------|---|-----------|
| WALLS | : | R21 (MIN) |
| FLOORS | : | R19 (MIN) |
| FLOOR OVER | | |
| CRAWLSPACE | : | R30 (MIN) |

CRAWLSPACE VENTILATION CALCULATION

| Total Crawlspace Area (CA) = | 820 sqft |
|-----------------------------------|-------------|
| Ventilation required (CA / 150) = | 5.5 sqft |
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| EDWAR | RD C. LC | VE, AR | CHITECT |
| Edward C. Love | Architect | 720 MILL STREET HALF MOON BAY CA 94019 | (650) 728-7615 edwardclovearch@gmail.com |
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 \sim Door Number Room Level 0.5 - Garage I G Garage 4-Panel I 8 Garage Solid Co Level I - First Floor
 7
 Bath
 Solid Co

 6
 Bedroom
 Solid Co

 9
 Bedroom
 Bi-pass
 27ClosetPocket22EntryFull Gla 21 Family Room Pocket 23 Family Room 4-Pan
 2.5
 Failing Room
 H-Faile

 3
 Garage
 Solid C

 2
 Hallway
 Hollow

 5
 Master Bath
 Solid C
 II Master Bath Bi-fold 4 Master Bed Solid 10 Master Bed Pocket 25 Master Bed 3 Pane Level 2 - Second Floor

 Level 2 - Second Floor

 I 2
 Bath
 Solid Cor

 I 5
 Living Room
 3 Panel S

 I 3
 Media Room
 Solid Cor

 14 Media Room Bi-pase

| | Door S | chedu | $ _{\mathcal{P}}$ |
|------------------|----------|--------------|--|
| | | | |
| Type-Door | Width | Height | Comments |
| | | | |
| el | 16' - 0" | 7' - 0" | |
| Core, Half Glass | 2' - 8" | 6' - 8" | Tempered Glass |
| | | | |
| Cana 2/8" | | | |
| $\frac{1}{2}$ | 2 - 6 | 6-0 | |
| | 5' 0" | 6-0 CI 8" | |
| + Door | 2' (" | 6-0 1 0" | |
| | 2 - 6 | 7' 0" | Tamparad Class |
| t Door | 2' 8" | | |
| el Slidina Class | 12' 0" | 7' 0" | |
| Core | 3' - 0" | 6' - 8" | 20 min fire rated self closing self latching smoke strip |
| l Core | 2' - 6" | 6' - 8" | |
| Core 3/8" | 2' - 6" | 6' - 8" | |
| 4 | 2' - 0" | 6' - 8" | |
| " Core 3/8" | 2' - 8" | 6' - 8" | |
| | 2' - 6" | 6' - 8" | |
| t Door | / = + 1 | | |

| Core, 3/8" | 2' - 6" | 6' - 8" | |
|------------------|---------|------------|----------------|
| el Sliding Glass | 9' - 6" | 7' - " | Tempered Glass |
| Core, 3/8" | 2' - 8" | 6' - 8" | |
| ss Door | 4' - 0" | 6' - 8" | |

| | | | \// | ndow | Sched | | |
|---------------------|-------------|-----------|--------------------|-----------------------------|-------------|-------|----------------|
| Window Ro Type Wind | | | | | | | |
| Mark | | Type-wind | Width | Height | Sill Height | Glass | Commente |
| IVIAIN | Om | 011 | WIGHT | ricigite | | 01255 | Commente |
| .5 - Gar | rage | | | | | | |
| 4 | Garage | Awning | 3' - /2" | '- /2" | 5' - 0" | | |
| 4 | Garage | Awning | 3' - /2" | '- /2" | 5' - 0" | | |
| 5 1 | | | | | | | |
| - First 40 | Bath | Awnina | 3' - 5 1/2" | '- /2" | 5' - 0" | Yes | Obscured Glass |
| 15 | Bedroom | Fixed | 3' - 1 1/2" | 3' - 1 1 1/2" | 3' - 0" | 100 | |
| 15 | Bedroom | Fixed | 3' - /2" | 3' - /2" | 3' - 0" | | |
| 36 | Bedroom | Casement | 2' - 5 1/2" | 3' - /2" | 3' - 0" | | Egress Window |
| 36 | Bedroom | Casement | 2'-5 /2" | 3' - /2" | 3' - 0" | | Egress Window |
| 4 | Bonus Room | Awning | 3' - /2" | '- /2" | 5' - 0" | | |
| 4 | Bonus Room | Awning | 3' - /2" | - /2" | 5' - 0" | ~~~~~ | |
| 38 | Family Room | Awning | 2' - 5 1/2" | '- /2" | 5' - 0" | Yes | |
| 4 34 | Master Bath | Awning | <u> </u> | - /2 | 5 - 0 | res | Obscured Glass |
| 9 | Office | Casement | ' - 5 /2" | 3' - 1 1/2" | 3' - 0" | | |
| 9 | Office | Casement | ' - 5 /2" | 3' - 1 1 1/2" | 3' - 0" | | |
| 9 | Office | Casement | '-5 /2" | 3' - /2" | 3' - 0" | | |
| 9 | Office | Casement | '-5 /2" | 3' - /2" | 3' - 0" | | |
| 15 | Office | Fixed | 3' - /2" | 3' - /2" | 3' - 0" | | |
| 15 | Office | Fixed | 3' - /2" | 3' - /2" | 3' - 0" | | |
| - Seco | nd Floor | | | | | | |
| 34 | Bath | Awnina | ' - /2" | '- /2" | 5' - 0" | | Obscured Glass |
| 9 | Dining Area | Casement | ' - 5 /2" | 3' - /2" | 3' - 0" | | |
| 9 | Dining Area | Casement | '-5 /2" | 3' - /2" | 3' - 0" | | |
| 3 | Dining Area | Fixed | 2' - /2" | 3' - /2" | 3' - 0" | | |
| 3 | Dining Area | Fixed | 2' - /2" | 3' - /2" | 3' - 0" | | |
| 15 | Dining Area | Fixed | 3' - /2" | 3' - 1 1/2" | 3' - 0" | | |
| 16 | Dining Area | Casement | '- /2" | 3' - 1 1 1/2" | 3' - 0" | | Egress Window |
| 16 .8 | Dining Area | Casement | 3' /2" | 3' - 1 1/2" 1' 5 /2" | 3' - 0" | | Lgress Window |
| 0 8 | Kitchen | Fixed | 3' - 11 1/2" | 4' - 5 1/2" | 3' - 6" | | |
| 33 | Kitchen | Fixed | 4' - 1 1/2" | 4' - 5 1/2" | 3' - 6" | | |
| 39 | Kıtchen | Casement | '-2 /2" | 4' - 5 1/2" | 3' - 6" | | |
| 39 | Kıtchen | Casement | '-2 /2" | 4' - 5 1/2" | 3' - 6" | | |
| 9 | Living Room | Casement | '-5 /2" | 3' - /2" | 2' - 0" | | |
| 9 | Living Room | Casement | '-5 /2" | 3' - /2" | 2' - 0" | | |
| 9 | Living Room | Fixed | 4' - /2" | 3' - /2" | 2' - 0" | | |
| 9 | Media Room | Casement | '-5 /2" | 3' - 1 1 1/2" | 3' - 0" | | |
| ن 15 | Media Room | Casement | 3'_ /2" | 3'-111/2" | 3' - 0" | | |
| 16 | Media Room | Casement | '- /2" | 3'- 1/2" | 3' - 0" | | Earess Window |
| 16 | Media Room | Casement | '- /2" | 3' - 1 1/2" | 3' - 0" | | Egress Window |
| 15 | Stairwell | Fixed | 3' - 11 1/2" | 3' - /2" | 3' - 0" | Yes | |
| | | | | | | | |
| - TOP | | | 41 1 1 2 | 41 | 1 | | |
| ∠⊘ 20 | Kitchen | Skylight | 4' - /2" | 4' - 1 1/2" | | | Velux FCM 4646 |
| 32 | Kitchen | Custom | 5° - 0" ⊿' _ ∩" | - " 2' _ ∩" | 0'-6" | | |
| 20 | Kitahan | Custom | | | 0-6 | | |

| | | | Wi | ndow | Sched | ule | |
|----------------|---------------|-----------|--|------------------------------|-------------|----------|----------------|
| | Window-Ro | Type-Wind | • • • • • | | | Tempered | |
| ype Mark | om | ow | Width | Height | Sill Height | Glass | Comments |
| vel 0.5 - Gar | age | | | | | | |
| 64 | Garage | Awning | 3' - /2" | '- /2" | 5' - 0" | | |
| 64 | Garage | Awning | 3' - /2" | '- /2" | 5' - 0" | | |
| vell First | Floor | | | | | | |
| | Bath | Δωρισα | 3' 5 1/2" | | 5' 0" | Yes | Obscured Class |
| 140 | Bedroom | Fixed | 3' 11 1/2" | 3' 1 1/2 | 3' 0" | 165 | Obscured Glass |
| 115 | Bedroom | Fixed | 3' = 1 + 1/2 | 3' - 1 1/2 | 3-0 | | |
| 120 | Bedroom | Cacement | 2 5 1/2 | 3' 1 1/2 | 3-0 | | Faress Window |
| 136 | Bedroom | Casement | 2 - 5 1/2 | 3' 11 1/2 | | | Egress Window |
| 136 | Bonus Poom | | | $\frac{3 - 11 1/2}{11 + 12}$ | 5-0 | | |
| 64 C1 | Bonus Room | Awana | 3 11 1/2 | | 5-0 | | |
| 129 | Family Page | Awning | $2 - 1 + 1/2^{"}$ | | 5-0 | | |
| 001 | | Awning | 2 - 5 1/2" | <u> </u> | | T CS | |
| 64 | IVIASTER Dath | Awning | 3'-111/2" | 1'-111/2" | 5' - U" | res | Observed Glass |
| 134 | IVIaster Bath | Awning | - /2" | - /2" | 5' - 0" | | Ubscured Glass |
| -79 | Uttice | Casement | 1' - 5 1/2" | 3'-111/2" | 3' - 0" | | |
| -79 | Uttice | Casement | 1' - 5 1/2" | 3' - 1 1/2" | 3' - 0" | | |
| -79 | Uttice | Casement | 1' - 5 1/2" | 3' - 1 1/2" | 3' - 0" | | |
| /9 | Uttice | Casement | - 5 /2" | 3' - 1 1/2" | 3' - 0" | | |
| 115 | Uttice | Fixed | 3' - 1 1/2" | 3' - 1 1/2" | 3' - 0" | | |
| 115 | Office | Fixed | 3' - /2" | 3' - /2" | 3' - 0" | | |
| vel 2 - Seco | nd Floor | | | | | | |
| 134 | Bath | Awning | ' - /2" | '- /2" | 5' - 0" | | Obscured Glass |
| 79 | Dining Area | Casement | ' - 5 /2" | 3' - /2" | 3' - 0" | | |
| 79 | Dining Area | Casement | ' - 5 /2" | 3' - 1 1/2" | 3' - 0" | | |
| 93 | Dining Area | Fixed | 2' - /2" | 3' - 1 1/2" | 3' - 0" | | |
| 93 | Dining Area | Fixed | 2' - /2" | 3' - 1 1/2" | 3' - 0" | <u></u> | |
| 115 | Dinina Area | Fixed | 3' - /2" | 3' - /2" | 3' - 0" | | |
| 116 | Dinina Area | Casement | ' - /2" | 3' - 1 1/2" | 3' - 0" | | Earess Window |
| 116 | Dinina Area | Casement | ' - /2" | 3'- /2" | .3' - 0" | | Earess Window |
| <u></u> උෆි | Kitchen | Fixed | 3' - /2" | 4' - 5 1/2" | .3' - 6" | <u> </u> | |
| 88 | Kitchen | Fixed | 3' - /2" | 4' - 5 1/2" | 3' - 6" | | |
| 133 | Kitchen | Fixed | 4' - 1 1/2" | 4' - 5 1/2" | 3' - 6" | <u> </u> | |
| 1.3.9 | Kitchen | Casement | ' - 2 /2" | 4' - 5 1/2" | .3' - 6" | | |
| 130 | Kitchen | Casement | '_2 /2" | 4' - 5 1/2" | 3'- 6" | | |
| 79 | Living Room | Casement | '_5 /2" | 3'-111/2" | 2' - 0" | <u> </u> | |
| 79 | Living Room | Casement | '_5 /2" | 3'_ /2" | 2' - 0" | <u> </u> | |
| <u> </u> | Living Room | Fixed | $\frac{1}{4^{\prime}} = \frac{1}{10^{\prime\prime}}$ | 3' - 1 1/2 | 2 - 0 | | |
| 79 | Media Poom | Casement | | 3' 1 1/2 | | | |
| 70 | Media Poom | Casement | | | | | |
| 115 | Media Poom | Casement | | 3' 1 1/2 | | | |
| | Nodia Paris | Casement | J - I I I/2" | $3 - 1 + 1/2^{-1}$ | 3-0 | <u> </u> | Fanaca Min Jaw |
| 116 | No. 12 Day | Casement | <u> </u> | $3 - 11 1/2^{\circ}$ | 3 - U" | | Egress Wirldow |
| 116 | IVIEAIA KOOM | Casement | 1 - 1 1/2" | 3 - 1 1/2" | 3° - 0° | × | Lgress Window |
| 115 | Stairwell | FIXEd | 3'-111/2" | 3'- /2" | 3' - 0" | Yes | |
| vel 2 - TOP | | | | | | | |
| 128 | Kıtchen | Skylight | 4' - /2" | 4' - /2" | | | Velux FCM 4646 |
| 132 | Kıtchen | Custom | 5' - 0" | '- " | 0' - 6" | | |
| 132 | Kıtchen | Custom | 4' - 0" | 2' - 10" | 0' - 6" | | |
| 132 | Kitchan | Custom | 11 21 | 21 01 | | | |

| | | | Λ | ndow | Sched | ule | |
|--------------|-------------|------------------|---------------|----------------------|-------------|----------|----------------|
| | Window-Ro | Type-Wind | | | | Tempered | |
| pe Mark | om | OW | Width | Height | Sıll Height | Glass | Comments |
| el 0 5 - Gai | aae | | | | | | |
| 64 | Garage | Awning | 3' - /2" | '- /2" | 5' - 0" | | |
| 64 | Garage | Awning | 3' - /2" | ' - /2" | 5' - 0" | | |
| | | | | | | | |
| el I - First | Floor | A | 21 5 1 (21) | | | X | |
| 140 | Bath | Awning | 3' - 5 1/2" | 1 1 1/2" | 5' - 0" | Yes | Obscured Glass |
| 115 | Bearoom | Fixed | 3' - 1 1/2" | 3'-111/2" | 3' - 0" | | |
| 115 | Dearoom | rixea Communi | 3'-111/2" | 3'-111/2" | 3' - 0" | | E |
| 136 | Bedress | Casement | 2 - 3 1/2" | $3 - 11 1/2^{\circ}$ | | | Egress Wirldow |
| 136 | Dearoom | Casement | 2 - 5 1/2" | <u> </u> | 3' - U" | | Lgress window |
| 64 | DONUS KOOM | Awning | 3 - 11 1/2" | - /2" | 5' - U" | | |
| 64 | Donus Koom | Awning | 3'-111/2" | - /2" | 5' - U" | | |
| 130 | Family Koom | Awning | 2'-51/2" | | 5' - U" | Yes | |
| 64 | Master Bath | Awning | 3' - 1 1/2" | /2" | 5' - 0" | Yes | Obscured Glass |
| 134 | Master Bath | Awning | ' - /2" | - /2" | 5' - 0" | | Obscured Glass |
| .79 | Office | Casement | 1' - 5 1/2" | 3' - 11 1/2" | 3' - 0" | | |
| 79 | Office | Casement | 1' - 5 1/2" | 3' - 1 1/2" | 3' - 0" | | |
| 79 | Office | Casement | 1' - 5 1/2" | 3'- /2" | 3' - 0" | | |
| 79 | Office | Casement | 1' - 5 1/2" | 3' - 1 1/2" | 3' - 0" | | |
| 115 | Office | Fixed | 3' - /2" | 3'- /2" | 3' - 0" | | |
| 115 | Office | Fixed | 3' - /2" | 3'- /2" | 3' - 0" | | l |
| 12.5000 | nd Floor | | | | | | |
| 121 | Bath | Δωρισα | | | 5' 0" | | Obscured Glass |
| 79 | Duning Anon | Awning | | 2 1 1 1/2 | 3-0 | | |
| 70 | Dining Area | Casement | 1 - 5 1/2 | 3 - 1 1/2 | 3-0 | | |
| 73 | Dining Area | Ewod | 1 - 5 1/2 | 3 - 11 1/2 | 3-0 | | |
| 93 | Dining Area | Fixed | 2 - 1 1/2 | 3 - 1 1/2 | 3-0 | | |
| 93 | Dining Area | Fixed | 2 - 1 1/2 | 3 - 1 1/2 | 3-0 | | |
| 115 | Dining Area | rixea | 3' - 1 1/2" | 3'-111/2" | 3' - 0" | | 5 |
| | Dining Area | Casement | '- /2" | 3'-111/2" | 3' - 0" | | Egress Window |
| 116 | Dining Area | Casement | '- /2" | 3'-111/2" | 3' - 0" | | Egress Window |
| <u> </u> | Nitchen | Fixed | 3'-111/2" | 4' - 5 1/2" | 3' - 6" | | |
| 88 | Kitchen | Fixed | 3'-111/2" | 4' - 5 1/2" | 3' - 6" | | |
| 133 | Kitchen | Fixed | 4' - /2" | 4' - 5 1/2" | 3' - 6" | | |
| 139 | Kitchen | Casement | 1' - 2 1/2" | 4' - 5 1/2" | 3' - 6" | | |
| 139 | Kitchen | Casement | ' - 2 /2" | 4' - 5 1/2" | 3' - 6" | | |
| 79 | Living Room | Casement | '-5 /2" | 3'- /2" | 2' - 0" | | |
| 79 | Living Room | Casement | '-5 /2" | 3'- /2" | 2' - 0" | | |
| 89 | Living Room | Fixed | 4' - /2" | 3'- /2" | 2' - 0" | | |
| 79 | Media Room | Casement | '-5 /2" | 3'- /2" | 3' - 0" | | |
| 79 | Media Room | Casement | '-5 /2" | 3'- /2" | 3' - 0" | | |
| 115 | Media Room | Casement | 3' - /2" | 3'- /2" | 3' - 0" | | |
| 116 | Media Room | Casement | '- /2" | 3' - /2" | 3' - 0" | | Egress Window |
| 116 | Media Room | Casement | '- /2" | 3' - /2" | 3' - 0" | | Egress Window |
| 115 | Stairwell | Fixed | 3' - /2" | 3' - /2" | 3' - 0" | Yes | |
| 2 TOP | | | | | | | |
| 108 | Kitchon | Shillisht | | | | | Velux ECM 4C4C |
| 120 | Kitchon | Custom | | | | | |
| 132 | Kitchan | Custom | | | | | |
| 106 | NILCHEII | CUSLOIII | 4-0 | 2-10 | U-6 | | |

NOTE:

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Windows are Milgard Styleline

All NFRC labels which state the required U-value and SGHC for all fenestration products shall not be removed prior to inspection or removal by a building inspector, and shall reflect the values listed in the energy report. (2019 CRC R308.1)

| F | REVIS | IONS | |
|---|-----------------------------------|---|---|
| | | | |
| EDWAR | D C. LO | VE, AR | CHITECT |
| Edward C. Love | Architect | 720 MILL STREET HALF MOON BAY, CA 94019 | (650) 728-7615 edwardclovearch@gmail.com |
| New Residence for | Gotsu Inc. | 568 Ferdinand Ave | El Granada, CA |
| | Door ¢ Window | Schedule | |
| DATE: SCALE: DRAWN: JOB: SHEET: | No. C2 Ren. 3/2 GN GO | ARC+4 C. LO2 23077 1/31/21 21/23 AH TSU | |

SHEETS

OF

EXTERIOR LIGHTING TO BE RECESSED INTO SOFFITS EXCEPT FOR $1 \times 1 \times 10^{-1}$ DARK SKY FIXTURE OVER GARAGE SIDE DOOR.

ARCHITECTURAL ARTICULATION IS USED FOR DESIGN.

MINIMUM OF 80" VERTICAL HEADROOM SHALL BE MAINTAINED AT THE STAIRS

INSULATION NOTES:

| ROOF | : | R30 (MI |
|------------|---|---------|
| WALLS | : | R21 (MI |
| FLOORS | : | R19 (MI |
| FLOOR OVER | | |
| CRAWLSPACE | : | R30 (MI |

| | REVIS | 610 | NS | | | | | |
|---|---------------------------------------|---|---|----------------|---------------------------|--|--|--|
| | | | | | | | | |
| EDWAR | D C. LO | N∕E, | C | CHIT | | | | |
| Edward C. Love | Architect | 720 MILL STREET | HALF MOON BAY, CA 94019 | (650) 728-7615 | edwardclovearch@gmail.com | | | |
| New Residence for | Gotsu Inc. | | JOD I DI DIIIAILO AVO | FLGranda CA | | | | |
| Section Views | | | | | | | | |
| DATE: SCALE: DRAWN: JOB: SHEET: | No. C: Ren. 3/2 1/4" = GO | AR 230 1/31 21/2 = 1 MH TSU | 04 0 17 121 121 122 122 122 122 122 122 122 | | | | | |

SHEETS

OF

Product Overview

The outdoor LED wall lantern is uniquely designed with a contemporary feel. Its durable aluminum construction with hand painted black finish and frosted glass gives a sophisticated look.

This uniquely designed fixture is the choice of discriminating yet value conscious homeowners who want to enrich their home.

Darksky certified Light color is 3000K (bright white) 360 Lumens 80 CRI and uses only 5.5-Watt

Specifications

Dimensions

Product Height (in.) 8.01 Product Depth (in.) 5.91 Product Length (m.) 8.01 Product Width (in.) 4.49

Details Actual Color Temperature (K) 3000 Color Rendering Index 80 Color Temperature Bright White

Exterior Lighting Product Type Cylinder Lights Fixture Color/Finish Black Fixture Material Glass/Lens Type Frosted Aluminum

Integrated LED Light Output (lumens) 360 Light Bulb Type Included Number of Bulbs Required 0 Maximum Wattage (watts) 0 Watt Equivalence 60

Outdoor Lighting Features Dark Sky, Weather Resistant, Weather Resistant

> Hardwired 2.29lb

Style

Product Weight (lb.)

Power Type

Modern

Behind great Windows

- We thought of everything · Worry-free vinyl construction that won't corrode and does not need
- to be painted The look of traditional wood windows with even sight lines
- · Custom sizes built to your exact specifications with no extra lead time Innovative SmartTouch[®] window and door locks
- · Folding, nesting operator handles on awning and casement styles
- · Vent stops for added peace of mind when children and pets are present on single hung, double hung and horizontal slider windows
- Pull rail screens that make removing and inserting easier . Endless combinations of windows, doors, transoms, and sidelites in
- any array you can imagine Multiple frame types allow for use in both new construction and
- replacement applications

3/4" Flat

6 | milgard.com

1" Contour

Brickmold Style

Windows and Doors for the Energy-Conscious Homeowner

At Milgard, we help homeowners make an impact on their energy consumption through our energy-efficient windows and patio doors. Leaky and inefficient windows and doors account for poor insulation and higher energy usage in households. Energy loss can happen in two ways and a lot depends on where you live: Cold climates lose energy in the form of heat

 Hot climates lose energy in the form of cooling Northern North-Central Tested and Built for Your Climate South-Central All Milgard windows and patio doors are designed to meet tough thermal and solar requirements of state and local jurisdictions. We conduct thermal simulations to improve energy performance in our windows and patio doors so our consumers can enjoy a more comfortable home. We make it easy to meet local energy codes and green building

energy needs. Milgard adheres to ENERGY STAR® v6 requirements to meet or exceed

ENERGY STAR v6 Southern 0.4 0.25

ENERGY STAR® Canada nrcan.gc.ca/energy efficiency standards with a selection of performance enhancing features. In fact, Milgard has options available to tailor the components of windows and doors to specific climates-perfectly matching the product to your region's U-Factor and Solar Heat Gain Coefficient (SHGC) criteria for the zones shown. Milgard also offers high energy performance options for the ultimate in energy efficiency. U-Factor SHGC Your energy efficient windows could include one or more the following features based on your climate. Zona SunCoat* or SunCoatMAX* EdgeGardMAX* Argon or Krypton 4th Surface Triple Glaze ENERGY STAR v6 Northern 0.27 -ENERGY STAR v6 North-Central 0.3 0.4 ENERGY STAR v6 South-Central 0.3 0.25

milgard.com | 7

Built for Performance

HHHP 50-1/8" ** Color May Vary From The Actual Product 4-1/4" 5-7/8" Page - 2 / 3 May 22, 2017 Page - 3 / 3 May 22, 2017

L ALL DRAWINGS, SPECIFICATIONS, AND COPIES THEREOF, PREPARED AND/OR SUPPLIED BY THE ARCHITECT, SHALL REMAIN HIS PROJECT AT THE COMPLETION OF THE ARCHITECT'S COMMON LAW COPYRIGHT OR OTHER RESERVED RIGHTS.

| ality Insulation Installation Instructions | Fully adhered single-ply roof membrane Portland cement/sand parge, or gypsum plaster - minimum 5/8 inch | All graphics are from ENERGY STAR® 10-12-14 U.S. Environmental Protection Agency and U.S. Department of Energy and can be found at www.energystar.gov. | C 09: Metal tie downs are insulated between exterior framing and tie down. Metal tie downs shall be fully insulated in a manner that resists thermal bridging through the structura |
|--|---|---|--|
| ny insulation installations have flaws that degrade thermal performance. Four problems are generally responsible for | Cast-in-place and precast concrete Fully grouted uninsulated and insulated concrete block masonry | LINE ITEM CLARIFICATIONS: | assembly. If there is romm behind the tie down and the exterior framing, ensure it is insulated. It is not required to the tie down and the exterior framing. |
| degredation: 1. There is an inadequate air barrier in the building envelope, or holes and gaps within the air barrier system | Structural Sneathing Meeting ASTM E2178 House Wrap Meeting ASTM E2178 Thorma plu | C 01: All penetrations through the exterior wall air barrier are sealed to provide an air-tight envelope to unconditioned spaces such as the outdoors, attic, garage, and crawl space. | the tie down to add insulation. |
| inhibit the ability to limit air leakage. 2. Insulation is not in contact with the air barrier, creating air spaces that short-circuits the thermal barrier of | Sheet steel or aluminum | If stucco or similar air-tight products will be applied to the outside of the building, only penetrations in that air barrier need to be sealed. Example: Lineset, electrical boxes. | C 10: Hard to access wall stud cavities, such as corner channels or wall intersections, are insulated t the pro R-value prior to the installation of exterior sheathing or exterior stucco lath. |
| the insulation when the air barrier is not limiting air leakage properly.3. The insulation has voids or gaps, resulting in portions of the construction assembly that are not insulated | | If no additional outside air barrier will be installed, then all penetrations, joints/seams where individual materials meet must be sealed with caulk, foam, tape, or a material specifically designed for building | Cavities in corner channels or wall intersections that will become inaccessible shall be completely fille insulation and verified before the exterior sheathing is installed. |
| an, therefore, has less thermal resistance than other portions of the assembly.4. The insulation is compressed, creating a gap near the air barrier and/or reducing the thickness of the | C 01: All penetrations through the exterior wall air barrier are sealed to provide an air-tight envelope to unconditioned | envelope sealing to prevent air inflitration. If foam board is the air barrier then it must be taped at all seams. Edges of foam board must be sealed to the surrounding air barrier. | Alternative framing details shown below can be used to eliminate cavities that would become inacces after exterior sheathing is installed. |
| insulation. | spaces such as the outdoors, attic, garage, and crawl space. | House wrap can be used as an air barrier when it meets ASTM E2178. All seams, edges and penetrations in the house wrap must be sealed. | NOTE: When batt insulation is used, it must be cut to fit around framing. |
| energy credit for correctly installing an air barrier and insulation to eliminate or reduce common problems associated 1 poor installation is provided in RA3.5. | C 02: Exterior wall air barrier is sealed to the top plate and bottom plate in each stud bay. | If OSB, plywood, cement board, Thermo-ply, or dimensional lumber are the exterior air barrier, all of the seams and penetrations must be sealed. | Corner Channels are typically framed in a U-channel. Insulation must be inserted in this space from the outsi before the exterior wall sheathing is installed. It is recommended that the advanced framing methods shown |
| ese instructions cover the most difficult to understand portions of the ENV-21, ENV-22, and ENV-23 compiance | C 03: All electrical boxes including knockouts that penetrate the air barrier to unconditioned space are sealed. | C 02: Exterior wall air barrier is sealed to the top plate and bottom plate in each stud bay. | below be used. |
| uments. | C 05: Exterior bottom plates (all stories) are sealed to the floor using the appropriate sealing method. | For multi-story buildings that have a continuous air barrier on the exterior, only the bottom plate of the first floor and the top plate of the top floor need to be sealed to the exterior air barrier. | Exterior sheathing Exterior sheathing Exterior sheathing |
| IV-21-H | C 08: Fan exhaust ducts that run between conditioned hoors to exterior walls including damper at the exterior wall. | • It is possible to have a two-story where the upstairs conditioned space has a smaller footprint than the first story. In such a floor plan, top plates of a first story wall exposed to an unconditioned attic would be | Una hopping there is a damage and a standard table, in sequence |
| r Infiltration Sealing - Framing Stage for Batt, Loose fill, and SPF | C 09. Metal tie downs are insulated between exterior framing and tie down. | sealed to the exterior air barrier. | Studs |
| | prior to the installation of exterior sheathing or exterior stucco lath. | C 03: All electrical boxes including knockouts that penetrate the air barrier to unconditioned space are sealed. Seal electrical boxes to the surrounding air barrier. | - Drywall |
| proved Materials | C 11: Insulation is installed behind the tub, shower, or fireplace enclosures, and exterior stairwells to the R-value listed on the CE1D when leasted against exterior wells. Insulation is installed before tub, shower, and fireplace are installed | Seal openings (knockouts) in the electrical box. Use tape, caulk or foam. Ensure sealing products do not enter into electrical box. | - Drywall |
| order to be considered an air barrier, individual materials must have an air permeance not exceeding 0.004 cfm/ft ² @ 7 lb/ft ² (0.02 L/(s*m ²) @ 75 Pa) when tested in accordance with ASTM E2178. Products must be installed per | C 12: A solid air barrier is installed, from floor to ceiling, on the inside of the exterior walls directly adjacent to tub, shower | | - The improved type stud comer allows installed land, in escuence 👔 - Two-stud consers with dywell class use the feast wood and give the bird bornwal performance 👔 |
| nufacturer instuctions. Products that meet these requirements are listed below. | or fireplace enclosures. Insulation shall contact all six sides of the air barrier on exterior walls. | | Typical Corner Framing Advanced Framing Methods |
| joints/seams of materials that make up the air barrier must be sealed with caulk, foam, tape, or a material cifically designed for building envelope sealing to prevent air infiltration. Products must be installed per | C 13: All window and door headers shall be insulated to a minimum of R-2. Using continuous rigid insulation sheathing, or SIR headers, or Two-member headers with insulation in between or Single-member headers with insulation to | Caulk | |
| nutacturer instructions. | the exterior. | opennigs | |
| the installer's responsibility to ensure the products are installed properly, and it is the HERS rater's responsiblity to ify proper installation. | D 04: All dropped ceilings are covered with hard covers and sealed to framing. | | |
| amples of Approved Air Barrier Materials: | D 05: All chases are covered with hard covers and sealed to framing. | | |
| Plywood - minimum 3/8 inch Oriented Strand Board (OSB) - minimum 3/8 inch | D 09: Double walls that open to the attic are covered with an air barrier and cover has an air tight seal to the framing. | | |
| Foil-back polyisocanurate insulation board - minimum 1/2 inch Extruded polystyrene insulation board - minimum 1/2 inch | E 01: All penetrations in the subfloor above the garage into conditioned space must follow the raised floor air barrier requirements above. | Electrical Box | |
| Closed cell spray polyurethane foam with a minimum density of 2.0 lb./cu.ft. and a minimum thickness of 2.0 inches | F 02: Infiltration between the space above the garage and subfloor is prevented by one of the following mothods: | C 05: Exterior bottom platos (all storios) are cooled to the floor using the expression cooling we the t | |
| Open cell spray polyurethane foam with a minimum density of 0.4 to 1.5 lb./cu.ft. and a minimum thickness 5 1/2 inches | F 02: An exterior wall air barrier is required at the intersection of the porch and exterior wall when there is conditioned | If the exterior air barrier is continuous (from the bottom story to the top story), then the bottom plate of the first floor | |
| Exterior or interior gypsum board - minimum 1/2 inch Cement board - minimum 1/2 inch | space on the other side. The exterior wall includes an air barrier where the attic attaches to the conditioned space. | In order to verify that the bottom plate is sealed, the following are allowed: | |
| Built-up roofing membrane Midified bituminous roof membrane | F 03: Truss framing blocking is used at the top and bottom of each wall/roof section. | Gose a gasket material maths 3.5 mones wide on 2x4, 5.5 mones wide on 2x5; or Seal the bottom plate on the inside at junction of concrete and plate with caulk or foam; or Watch sealing of the bottom plate to foundation during framing | |
| Particleboard - minimum 1/2 inch | G 01: Airtight blocking is installed between joists where the wall rim joist would have been located in the absence of a cantilever. | C 08: Fan exhaust ducts that run between conditioned floor to exterior wells including demost of the exterior well | |
| | | Fan exhaust ducts that run between conditioned space, including the space between conditioned floors to exterior walls, shall include a damper at the exterior wall. | |
| | | | |
| | | | |
| | | | |
| II intersections where interior walls intersect exterior walls, builders will typically use a conventional T-post ail. Insulation must be inserted in this space from the outside before the exterior wall sheathing is installed. It | | D 04: All dropped ceilings are covered with hard covers and sealed to framing. The 2008 RA allowed the entire drop area to be filled with insulation level with the rest of the attic. This is no | E 02: Infiltration between the space above the garage and subfloor is prevented by one of the following method. All seams where components (including rim joists, closures, top plates, and subfloor) come together |
| ecommended that the advanced framing methods shown below are used. In advanced framing, batt insulation st be cut to fit around the 2x4 ladders and the 1x6 or 2x6 nailers. | CENERT EMOSER BOARD | Ionger allowed under the 2013 Standards; hard covers are required. Framing of soffits or drop ceilings should be done inside the air barrier. This means the drywall has been | sealed with caulk, spray foam, or foam gasket/tape. Sole plates at the slab of the common wall are to caulked, foamed, or gasketed to prevent air migration. |
| ADVANCED FRAMING ADVANCED FRAMING | TIB UNT | installed and sealed as required before the soffit or drop ceiling is framed out. | When garage ceiling joists extend across both the living space and the garage, the joist bay cavities any common walls must be closed off and sealed to prevent air movement within the frame assembly |
| STANDARD FRAMING Exterior Ladder of 2x4s spaced Exterior behind end stud Exterior Wall 2x6 wall vertically 24" on center are well | SELANT SEALANT | | |
| 2x6 wall No insulation stud | PROVIDE BLOODINGAT STUD CARTY AT TUB AF DITEROR INAL INSLATED EXTEROR | | |
| Extra studs | STED UKLL TRIM-PROFILE WALL SHEATHING 17 KET | | |
| sheetrock 2x4 wall | CONTINUOUS BEAD OF SEA ANT SEA ANT | | |
| 1: Insulation is installed behind tub, shower, or fireplace enclosures, and exterior stairwells to the R-value lister | ERRIDING FOM | | |
| on the CF1R when located against exterior walls. Insulation is installed before tub, shower, and fireplace are installed; and | RUORASSENEY | | |
| 2: A solid air barrier is installed, from floor to ceiling, on the inside of exterior walls directly adjacent to tub, | | | |
| shower, or fireplace enclosures. Insulation shall contact all six sides of the air barrier on exterior walls. When tubs, showers, fireplace enclosures, or stairwells are installed on exterior walls, builders may forget | | | Incorrect – Joist bay cavities not sealed Correct – Joist bays with blocking and sealed |
| to insulate and air seal the exterior wall behind those locations. For QII the HERS Rater must visually verify that these locations are properly air sealed and insulated <u>before</u> they become inaccessible. | | | Insulation can be placed on the ceiling of the garage or in contact with the conditioned subfloor above |
| • The insulation behind the tub or shower must be equivalent to the insulation in adjacent exterior walls and covered with an air barrier that is sealed at all edges and seams to provide a continuous air barrier. Any | C 13: All window and door headers shall be insulated to a minimum of R-2. Using continuous rigid insulation sheathing, or SIPS headers, or Two-member headers with insulation in between, or Single-member header | D 05: All chases are covered with hard covers and sealed to framing. All vertical chases shall have hard covers sealed to the framing at each plate level. | Where the insulation will be installed effects the location of the air barrier and sealing. Option 2 below is the preferred method. |
| type of insulation may be installed as long as it completely fills the void and is in full contact on all six sides of the air barrier. | with insulation to the exterior. The Building Energy Efficiency Standards provide Quality Insulation Installation (QII) compliance credit for R-2 | See notes for D 04 above. | Option 1 - Insulation is placed in contact with the garage ceiling, with a void between the insulatio and th |
| | insulated headers. Insulation or wood must fill the cavities, leaving no air gaps in or around the header. | D 09: Double walls that open to the attic are covered with an air barrier and cover has air tight seal to the framing. Double walls that open to the attic or subfloor must be covered. See notes for D 04 above. | conditioned subfloor above. When using this option, the air barrier for the conditioned space above the garag is the garage ceiling and the perimeter blocking. |
| NOTE: The bath tub air barrier is not required to extend to the ceiling at framing stage. Drywall will be installed to the ceiling at a later stage. | A. Two-member header with insulation in between. The header and insulation must fill the wall cavity. | For double walls on the exterior: An air barrier must be installed covering the double wall if insulation is going to be installed on the exterior wall. | Perimeter of insulation must be full depth filling space from ceiling to subfloor. Seal all edges of the garage ceiling (typically drywall) at the perimeter of the garage to creat |
| | Example: a 2x4 wall with two 2x nominal headers, or a 2x6 wall with a 4x nominal header and a 2x nominal header. Insulation is required to fill the wall cavity and must be installed between the headers. | | continuous air tight surface between the garage and adjacent conditioned space. The blocking at the garage and the adjacent conditioned space (house) shall be insulated up |
| | B. Single-member header, less than the wall width, with insulation on the interior face. The header and | Adhesive on gypsum and top plate | |
| | Insulation must till the wall cavity. Example: a 2x4 wall with a 3 1/8 inch wide header, or a 2x6 wall with a 4x nominal header. Insulation is required to fill the wall cavity and must be installed to the interior face of | - 3/4" closure board | Option 2 - Insulation is placed in contact with the conditioned subfloor (this is the perferred method). W using this option, the air barrier is the subfloor alone. |
| Contraction of the second seco | | (OSB, plywood, gypsum board, | Seal al subfloor seams and penetrations between the garage and adjacent conditioned space The garage and the adjacent conditioned space (house) shall be insulated up to the subfloor |
| | O. Single-member neader, same width as wall. The header must fill the wall cavity. Example: a 2.4 wall with a 4x nominal header or a 2x6 wall with a 6x nominal header. No additional insulation is required because the backer fills the equivalence of the second secon | Continuous bead of | 2 STORY CONDITIONED SPACE OVER GARAGE |
| A Company of the second of the | neader hils the cavity. | adhesive around perimeter of closure | 2 STORY CONDITIONED SPACE OVER GARAGE SUBFLOOR & GARAGE TO HOME TRANSITION GARAGE & RIM JOISTS INSULATED |
| 03.14.05:54 | | board | CONDITIONED BLOCKING REQUIRED ROOM AT EDOC BETWEEN ROOM GARAGE AND HOME |
| | | Installing air barrier above a soffit 🕧 | |
| | | In this picture an air barrier is not required at the double wall because insulation will be installed on the | |
| | | interior wall. | GARAGE HONE GARAGE HONE |
| | | | |
| | | | Option 1 – Insulation goes from Option 2 – Insulation goes from ceiling to subfloor at blocking to house |
| | | | |
| | | | |
| | | | |
| | | | |

SHEETS

Air Infiltration Sealing - Ceiling/Roof Deck

LINE ITEMS ADDRESSED

ENV-22-H

- A 04: Electrical boxes, fire alarm boxes, and fire sprinklers cut into ceiling are sealed to the surrounding drywall. If it is not possible to seal the fixture directly, a secondary air barrier shall be created around the fixture.
- A 06: Exhaust fan housing is sealed to the surrounding drywall and all holes and seams in the housing are sealed.
- A 09: Attic access forms an air tight seal between conditioned space and unconditioned space. A 10: When the knee wall is placed on top of a subfloor the open cavity between the subfloor and the ceiling below is sealed
- A 13: All top plates of interior and exterior walls are sealed to drywall. A 14: Attic access must be surrounded with a dam at least the same depth as the insulation to prevent loss of ceiling insulation.

LINE ITEM CLARIFICATIONS

All graphics are from ENERGY STAR® 10-12-14 U.S. Environmental Protection Agency and U.S. Department of Energy and can be found at www.energystar.gov.

- A 04: Electrical boxes, fire alarm boxes, and fire sprinklers cut into ceilings are sealed to the surrounding drywall. If it is not possible to seal the fixture directly, a secondary air barrier shall be created arround the fixture.
 - Sealing of the above items are required only when they penetrate the ceiling to unconditioned space. Seal electrical boxes to the surrounding air barrier.
 - Seal openings (knockouts) in the electrical box. Use tape, caulk, or foam. Ensure sealing products do not enter into the electrical box.

Fire Sprinklers

Concealed fire sprinklers have openings at the top of the sprinkler that shall not be blocked, sealed or have a secondary air barrier.

- When sprinklers are installed in the ceiling air barrier where the back opens into the attic, it is recommended that flush mount or non-vented recessed sprinklers be used. These do not require air flow through the sprinkler t activate and they can be sealed to the ceiling air barrier.
- See California State Fire Marshall Bulletin 13-007 link: http://osfm.fire.ca.gov/informationbulletin/pdf/2013/IB-13077 ResFireSpklersEnergyRegs.pdf.
- Additional link on proper installation: http://osfm.fire.ca.gov/codedevelopment/pdf/califfiresprinklercoalition/OSFMCEC10142013.zip

LINE ITEMS ADDRESSED

Insulation Installation

- B 08: An air barrier is installed at all exposed edge faces of batt, loose fill and SPF insulation.
- C 10: Knee walls an air dam the full depth of the ceiling insulation is added to the exterior edge of the knee wall so the ceiling insulation overlaps the knee wall to the full depth of the ceiling insulation.
- C 13: Attic access must have a dam around the access to at least the same depth as the insulation. C 17: Steel-framed knee walls, skylight shafts, and gable ends - external surfaces of steel studs are covered with
- insulation. D 04: Double walls and bump-outs - insulation fills the cavity, or additional air barrier is installed so the insulation fills
- the cavity and is in contact with the insulation on all six sides unless SPF is used. Insulation shall be installed on the exterior of the double walls/bump-outs.
- D 06: Electrical panel in exterior insulated wall the panel is air tight and insulation is installed behind the panel.
- - Typical locations where this occurs is on top of knee walls, around fireplace and flues.
 - SPF does not require an air barrier if it can be installed to it full depth.
- C 10: Knee walls an air dam the full depth of the ceiling insulation is added to the exterior edge of the knee wall so the ceiling insulation overlaps the knee wall to the full depth of the ceiling insulation. The dam must be at least the same depth as the attic insulation to ensure full depth and to stop air
 - migration into the insulation This shall be a solid material to keep the insulation in place. Some of the materials that can be used are listed on the CF2R-ENV-21-H.
 - THERE MUST BE A DAM PLACED AT THE EXTERIOR EDGE OF ALL KNEE WALLS AND AT ALL EDGES OF NGULATION TO STOP AIR MOVEMENT THROUGH THE INSULATION ATTIC CONDITIONED
- C 13: Attic access must have a dam around the access to at least the same depth as the insulation. A dam must be installed around the attic access that is at least the same depth as the attic insulation to ensure full depth around the attic access.
 - Most insulation manufacturer instructions require a rigid dam around the attic access for all types of insulation. Check insulation manufacturer instructions.
 - For R-38, most insulation would require 13 3/4" to 14 1/2" dam. R-48 would require 17" dam in most situations.
 - The depth of the dam would be measured from the ceiling to the top of the dam.

LINE ITEM CLARIFICATIONS:

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L Construed by the architect, shall remain his property. They are to be used on any other project is not to be used on any other project is not to be used on any other project and are not to be used on any other reserved rights. The architect is not to be used on any other project is not to be used on any other reserved rights. The architect is not to be used on any other project is not to be used on any other reserved rights.

- B 08: An air barrier is installed at all exposed edge faces of batt, loose fill and SPF insulation.
 - This is to stop air movement into the insulation and to ensure full depth of insulation.

ENV-23-H

SHEETS

| | F | REVIS | SIONS | |
|-----|-----------------------------------|-----------------------------|---|---|
| | | | | |
| | | | | |
| | 1 | | 2 | |
| | EDWAR | D C. LO | VE, AR | CHITECT |
| | Edward C. Love | Architect | 720 MILL STREET HALF MOON BAY, CA 94019 | (650) 728-7615 edwardclovearch@gmail.com |
| | New Residence for | Gotsu Inc. | 568 Ferdinand Ave | El Granada, CA |
| | | | | |
| | DATE: SCALE: DRAWN: JOB: | No. C2 Ren. 3/2 GN | ARCH C. LOL 23077 1/31/21 2.1/23 AH TSU | |
| ΓS. | SHEET: A OF | .5 | O (| () |

QII DETAILS PROVIDED BY SAN MATEO COUNTY BUILDING DEPT.

APPLIANCE LIST

I. WATER HEATER 2. WASHER 3. DRYER 4. RANGE

MANUFACTURER RHEEM WHIRLPOOL WHIRLPOOL

FRIGIDARE

MODEL

PERFORMANCE PLATINUM 50gal WFW75HEFW, 4.5 cuft Front Load Washer WED560LHW, 7.4 cuft Front Load Electric Dryer FCRE3052AS, 30" Electric Range

ONE WP-GFCI OUTLET BELOW SINK TO BE WIRED TO $\langle 1 \rangle$ ONE-WAY SWITCH FOR GARBAGE DISPOSAL, OTHER OUTLET TO BE UNSWITCHED FOR DISH WASHER.

- $\langle 2 \rangle$ wp-gfci outlets mounted above counter
- \langle 3 \rangle WP-GFCI OUTLET TO BE MOUNTED @ 4'-6"
- 4CEILING MOUNT DUPLEX FOR GARAGE DOOR OPENER
(CONFIRM PLACEMENT DEPENDING ON OPENER TYPE)
- 5WHOLE HOUSE VENTILATION FAN TO COMPLY WITH
ASHRAE 62.2 (SEE WHOLE HOUSE VENTILATION NOTES.)

SHEETS

BY MOTION SENSOR & PHOTOCONTROL OR OTHER APPROVED METHODS (CEC 150(k)3)

3. IN BATHROOMS, AT LEAST ONE LIGHT SHALL BE CONTROLLED BY A VACANCY SENSOR (CEC 150.0(k)2J)

TAMPER-RESISTANT (CEC 406.11)

5. ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLT, SINGLE PHASE, 15 & 20 AMP OUTLETS IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE ARC-FAULT CIRCUIT INTERRUPTOR (AFCI) PROTECTED (CEC 210.12(A))

6. A DEDICATED 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY BATHROOM RECEPTACLE OUTLETS (CEC 210.11(C)(3))

7. A MINIMUM OF TWO 20 AMP SMALL APPLIANCE CIRCUITS FOR THE KITCHEN COUNTER TOPS SHALL BE PROVIDED. SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS. LOADS SHALL BE BALANCED (CEC 210.52(B)(2))

8. PROVIDE 220-VOLT, 30 AMP DEDICATED CIRCUIT FOR DRYER (CEC 220.54)

9. ALL BATHROOM EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT, DUCTED TO TERMINATE OUTSIDE THE BUILDING, AND CONTROLLED BY A HUMIDISTAT CAPABLE OF BEING ADJUSTED BETWEEN THE RELATIVE HUMIDITY RANGE OF 50 TO 80 PERCENT. CGBC 4.506

10. KITCHEN EXHAUST SHALL BE A MINIMUM OF 100 CFM

11. KITCHEN HOOD EXHAUST FAN SHALL BE DUCTED OUTSIDE IN ACCORDANCE WITH ASHRAE STANDARD 62.2 TABLE 7.1

12. UFER GROUND OR OTHER APPROVED GROUND PER CEC 250

13. 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 MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE. CGBSC 4.106.4.1

PLUMBING FIXTURE NOTES:

WATER CONSERVING FIXTURES & FITTINGS SHALL BE USED IN ACCORDANCE WITH 2019 CPC

SHALL INCLUDE :

MAXIMUM OF 1.28 GPF FOR WATER CLOSETS

MAXIMUM OF 1.8 GPM @ 80 PSI FOR SHOWERHEADS

MAXIMUM 0.5 GPM @ 60 PSI FOR COMMON AND PUBLIC USE AREAS

MAXIMUM 1.8 GPM @ 60 PSI FOR KITCHEN FAUCETS.

WHOLE HOUSE VENTILATION NOTES:

ALL BATHROOMS TO BE EQUIPED WITH WHISPERGREEN SELECT™ ONE FAN - MULTIPLE IAQ SOLUTIONS, 50-80-110 CFM | FV-05-11VK1.

DUCT SIZE: 4" - 6" (BASED ON CONTRACTOR'S DECISION)

ASHRAE 62.2 REQUIRED MECHANICAL VENTILATION RATE: QFAN CFM = 101

OCCUPANTS THAT FRESH AIR VENTILATOR IS A WHOLE HOUSE VENTILATION FAN THAT SHOULD OPERATE WHENEVER THE BUILDING IS OCCUPIED.

SHEETS

1. ALL LIGHTING SHALL BE HIGH-EFFICACY (CEC 150(k)1)

2. ALL OUTDOOR LIGHTING SHALL BE HIGH-EFFICACY AND CONTROLLED BY MOTION SENSOR & PHOTOCONTROL OR OTHER APPROVED METHODS (CEC 150(k)3)

3. IN BATHROOMS, AT LEAST ONE LIGHT SHALL BE CONTROLLED BY A VACANCY SENSOR (CEC 150.0(k)2J)

TAMPER-RESISTANT (CEC 406.11)

5. ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLT, SINGLE PHASE, 15 & 20 AMP OUTLETS IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE ARC-FAULT CIRCUIT INTERRUPTOR (AFCI) PROTECTED (CEC 210.12(A))

6. A DEDICATED 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY BATHROOM RECEPTACLE OUTLETS (CEC 210.11(C)(3))

7. A MINIMUM OF TWO 20 AMP SMALL APPLIANCE CIRCUITS FOR THE KITCHEN COUNTER TOPS SHALL BE PROVIDED. SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS. LOADS SHALL BE BALANCED (CEC 210.52(B)(2))

8. PROVIDE 220-VOLT, 30 AMP DEDICATED CIRCUIT FOR DRYER (CEC 220.54)

9. ALL BATHROOM EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT, DUCTED TO TERMINATE OUTSIDE THE BUILDING, AND CONTROLLED BY A HUMIDISTAT CAPABLE OF BEING ADJUSTED BETWEEN THE RELATIVE HUMIDITY RANGE OF 50 TO 80 PERCENT. CGBC 4.506

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PLUMBING FIXTURE NOTES:

WATER CONSERVING FIXTURES & FITTINGS SHALL BE USED IN ACCORDANCE WITH 2019 CPC

SHALL INCLUDE :

MAXIMUM OF 1.28 GPF FOR WATER CLOSETS

MAXIMUM OF 1.8 GPM @ 80 PSI FOR SHOWERHEADS

MAXIMUM 1.2 GPM @ 60 PSI FOR RESIDENTIAL LAVATORY FAUCETS

MAXIMUM 0.5 GPM @ 60 PSI FOR COMMON AND PUBLIC USE AREAS

WHOLE HOUSE VENTILATION NOTES:

ALL BATHROOMS TO BE EQUIPED WITH WHISPERGREEN SELECT™ ONE FAN - MULTIPLE IAQ SOLUTIONS, 50-80-110 CFM | FV-05-11VK1.

DUCT SIZE: 4" - 6" (BASED ON CONTRACTOR'S DECISION)

ASHRAE 62.2 REQUIRED MECHANICAL VENTILATION RATE: QFAN CFM = 101

OCCUPANTS THAT FRESH AIR VENTILATOR IS A WHOLE HOUSE VENTILATION FAN THAT SHOULD OPERATE WHENEVER THE BUILDING IS OCCUPIED.

CERTIFICATE OF COMPLIANCE Project Name: Peng Residence

Calculation Date/Time: 2020-09-28T12:35:18-07:00 Input File Name: 0313PEN.ribd19x

CF1R-PRF-01E (Page 1 of 10) CERTIFICATE OF COMPLIANCE

Calculation Description: Title 24 Analysis Freedown and the state of the

| 01 | Project Name | Peng Residence | ng Residence | | | | | | |
|----------|--|---|------------------------------|--|-----------------------------|--|--|--|--|
| 02 | Run Title | Title 24 Analysis | tle 24 Analysis | | | | | | |
| 03 | Project Location | 568 Ferdinand Ave. | Ferdinand Ave, | | | | | | |
| 04 | City | Half Moon Bay | 05 | Standards Version | 2019 | | | | |
| 06 | Zip code | 94019 | 07 | Software Version | EnergyPro 8.1 | | | | |
| 08 | Climate Zone | 3 | 09 | Front Orientation (deg/ Cardinal) | 143 | | | | |
| 10 | Building Type | Single family | 11 | Number of Dwelling Units | 1 | | | | |
| 12 | Project Scope | NewConstruction | 13 | Number of Bedrooms | 3 | | | | |
| 14 | Addition Cond. Floor Area (ft ²) | 0 | 15 | Number of Stories | 2 | | | | |
| 16 | Existing Cond. Floor Area (ft ²) | nd. Floor Area (ft ²) n/a Fenestration Average U-fa | | Fenestration Average U-factor | 0.31 | | | | |
| 18 | Total Cond. Floor Area (ft ²) | 1811 | 19 | Glazing Percentage (%) | 28.66% | | | | |
| 20 | ADU Bedroom Count | 0 | 21 | ADU Conditioned Floor Area | 0 | | | | |
| 22 | Is Natural Gas Available? | Yes | | | | | | | |
| OMPLIANC | E RESULTS | | | | | | | | |
| 01 | Building Complies with Computer | Performance | | C 2 | | | | | |
| 02 | This building incorporates feature | s that require field testing and/o | or verification by a certifi | ed HERS rater under the supervision of a | CEC-approved HERS provider. | | | | |
| 03 | This building incorporates one or | This building incorporates one or more Special Features shown helow | | | | | | | |

| Project Name: Pe Calculation Descr | Name: Peng Residence Calculation Date/Time: 2020-09-28T12:35:18-07:0 Ion Description: Title 24 Analysis Input File Name: 0313PEN.ribd19x | | | | | | :00 | (| Page 2 of 10 | | | |
|---|--|---|--|---|--------------------|------------------|---------------|-----------------------------------|-----------------|-----------------------|------------------------------|--|
| ENERGY DESIGN RA | ATING | | | | | | | | | | | |
| | | | - | Energy Design Ra | tings | | | | Compliance M | largins | | |
| | | | Efficier | ncy ¹ (EDR) | Total ² | (EDR) | 11 | Efficiency ¹ (ED | R) | Total ² (I | EDR) | |
| | Standard Desi | ign | 4 | 16.4 | 21 | 5 | | | | | | |
| Τ | Proposed Design | | | 16.3 | 21 | 5 | | 0.1 | | Ò | | |
| | | | | RESULT: 3: COMP | LIES | | 0 | | | | | |
| 2: Total EDR include 3: Building complie • Standard Der • PV System re | es efficiency and de s when efficiency a sign PV Capacity: 2 esized to 2.41 kWdo | emand response measu and total compliance ma .41 kWdc c (a factor of 2.412) to a | res such as photovo argins are greater th ochieve 'Standard Do | oltaic (PV) systems and b nan or equal to zero esign PV' PV scaling | atteries | | | | | | | |
| | | | | ENERGY USE SUM | MARY | | | | | 1.1 | | |
| Ene | ergy Use (kTDV/ft ² | -yr) | Standard D | esign | Propose | d Design | | Compliance Margin Percent Improve | | | nprovement | |
| | Space Heating | | 9.76 | 9.76 | | 56 | | 1.2 12.3 | | 2.3 | | |
| | Space Cooling | | 0.55 | | 3.5 | | | -2.95 | | -536.4 | | |
| | IAQ Ventilation | | 2.71 | 2. | 71 | | 0 0 | | | 0 | | |
| | Water Heating | | 14.47 | | 12 | 2.5 | | 1.97 | 1 | 1 | 3.6 | |
| 5 | self Utilization Cred | lit | n/a | | | 0 | | 0 | | 1 | n/a | |
| Co | mpliance Energy T | otal | 27.49 | Sta | 27 | .27 | | 0.22 | 2 | (| 0.8 | |
| REQUIRED PV SYST | EMS - SIMPLIFIED | . — | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
| DC System Size | Exception | Module Type | Array Type | Power Electronics | CFI | Azimuth (deg) | Tilt Input | Array Angle (deg) | Tilt: (x in 12) | Inverter Eff. (%) | Annual Solar Acces (%) | |
| (KVVdC) | | | | | | | | | | | | |

| CERTIFICATE OF COMPLI | ANCE | | | | | | | | | | | | CF1R-PRF-01 |
|---------------------------------|-------------------|-------------------|--|---------|---|--|---|------------------------------------|----------|--------------------|---|--------------------|---------------------|
| Project Name: Peng Resi | dence | | | Calcul | Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 5 of 10) | | | | | | | | |
| Calculation Description: | Title 24 Analysis | | | Input | File Nam | ne: 031 | 3PEN.ri | bd19x | | | | | |
| FENESTRATION / GLAZING | | | 12 | | | | | 1.10 | - | 2 | | 1.1 | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |
| Name | Туре | Surface | Orientation | Azimuth | Width (ft) | Height (ft) | Mult. | Area (ft ²) | U-factor | U-factor Source | SHGC | SHGC Sourc e | Exterior Shading |
| Skylight | Skylight | Roof | Left | 233 | 1.4.5 | 11 | 1 | 25 | 0.48 | NFRC | 0.32 | NFRC | None |
| OPAQUE DOORS | | | | | | | - | | _ | | | | |
| 01 02 | | | | | | (| 03 | | | | (|)4 | |
| Name | 71 de | Side of Bu | iilding | 11 | Area (ft ²) | | | | 1.171.0 | U-factor | | | |
| Door | | Front W | all 2 | | 112 | | | 0.5 | | | | | |
| SLAB FLOORS | | | | | | - | | | | | | _ | 1 |
| 01 | 02 | 03 | 04 | | | | 05 | | | 06 | | 07 | |
| Name | Zone | Area (ft2) | Perimete | er (ft) | Edge | insul. R | -value ar | nd Depth | Car | Carpeted Fraction | | Heated | |
| Slab-on-Grade | Garage | 475 | 46 | | 1.1 | 9 | None | | 10.1 | 0% | | | No |
| OPAQUE SURFACE CONSTR | UCTIONS | C | 11 8 | - | R | S. | _ | _ | v | | | | |
| 01 | 02 | 03 | 04 | | 05 | 5 | 1 | 06 | 07 | 1 | | 08 | |
| Construction Name | Surface Type | Construction Type | Framing Total Cavity Int R-value | | Interior Cont R-v | / Exterior inuous alue | U-factor | r | Asse | mbly Laye | ers | | |
| R-0 Wall | Exterior Walls | Wood Framed Wall | I 2x4@16 in. O. C. R-O None / None 0.361 | | in: Cav Ext | side Finis /ity / Fra terior Fir | ih: Gypsur me: no in: 1ish: 3 Coa | m Board sul. / 2x4 at Stucco | | | | | |
| R-21 Wall | Exterior Walls | Wood Framed Wall | 2x6 @ 16 in. | . O. C. | R-2 | !1 | None | / None | 0.069 | in: C Ext | Inside Finish: Gypsum Board Cavity / Frame: R-21 / Zx6 Exterior Finish: 3 Coat Stucco | | |

Project Name: Peng Residence Calculation Description: Title 24 Analysis OPAQUE SURFACE CONSTRUCTIONS

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|--|------------------------------------|--|------------------|--|--|--|---|--|---|--|--|--|---|--|---|--|---|--|---|--|--|--|--|--|---|---|--|--|--|---|--------------------------------|--|--|
| Construction Name | Name Surface Type Construction Type Framing Total R-v: | | Total Cavity R-value | Interior / Exterior Continuous R-value | U-factor | Assembly Layers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-30 Roof | Cathedral Ceilings | Wood Framed 2x10 @ 16 in. O. C. R-30 None / None 0.037 | | ngs Wood Framed 2x10 @ 16 in. O. C. R-30 None / None 0.033 | | gs Wood Framed 2x10 @ 16 in. O. C. R-30 None / 1 Ceiling | | Wood Framed 2x10 @ 16 in. O. C. R-30 None / None 0.03 Ceiling | ings Wood Framed 2x10 @ 16 in. O. C. R-30 None / None | | Wood Framed Ceiling 2x10 @ 16 in. O. C. R-30 None / None 0.037 | | Wood Framed 2x10 @ 16 in. O. C. R-30 None / None 0.037 | | ilings Wood Framed 2x10 @ 16 in. O. C. R-30 None / None | | Wood Framed 2x10 @ 16 in. O. C. R-30 Ceiling | | ral Ceilings Wood Framed 2x10 @ 16 in. O. C. R-30 None / None | | Wood Framed 2x10 @ 16 in. O. C. R-30 None / None 0.037 Ceiling | | ngs Wood Framed 2x10 @ 16 in. O. C. R-30 None / None 0.0 | | Wood Framed 2x10 @ 16 in. O. C. R-30 None / Ceiling | | Wood Framed 2x10 @ 16 in. O. C. R-30 None / None 0.037 Ceiling | Wood Framed 2x10 @ 16 in. O. C. R-30 None / None 0.037 Ceiling | ngs Wood Framed 2x10 @ 16 in. O. C. R-30 None / None 0.037 | ood Framed 2x10 @ 16 in. O. C. R-30 None / None 0.037 Ceiling | | Wood Framed 2x10 @ 16 in. O. C. R-30 None / None 0.037 Ceiling | in. O. C. R-30 None / None 0.0 | | Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-30 / 2x10 Inside Finish: Gypsum Board |
| R-0 Wall1 | Interior Walls | Wood Framed Wall | 2x4 @ 16 in. O. C. R-O None / None | | None / None | 0.277 | Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Other Side Finish: Gypsum Board | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-30 Floor Crawlspace | Floors Over Crawlspace | ver Wood Framed Floor 2x10 @ 24 in. O. C. R-30 | | None / None | 0.032 | Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-30 / 2x10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R-19 Floor No Crawlspace | Interior Floors | Wood Framed Floor | 2x6 @ 16 in, O. C. | C. R-19 None / None | | 0.049 | Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 Ceiling Below Finish: Gypsum Board | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUILDING ENVELOPE - HEI | RS VERIFICATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | 02 | Sec. 10 | | 03 | 1.00 | 04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quality Insulation In | stallation (QII) | Quality Installation of Spr | ay Foam Insulation | Building Enve | lope Air Leakage | | CFM50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Require | Required | | red | Not I | Required | 1111 | n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CERTIFICATE OF COMPLIANCE Project Name: Peng Residence Calculation Description: Title 24 Analysis REQUIRED SPECIAL FEATURES

| The fe | ollowing are features the | at must be installed as condi | ition fo | r meeting the modeled | energy performance for th | is computer analysis. | | |
|-----------------------------------|---|--|----------------------|--|---|--|--|------------------------------------|
| • | Floor has high level of Ducts in crawl space | insulation | | | | | | |
| HERS | FEATURE SUMMARY | | | | | | | |
| The fo detail | ollowing is a summary o is provided in the build | f the features that must be i ng tables below. Registered | field-ve CF2Rs | erified by a certified HEP and CF3Rs are required | S Rater as a condition for r to be completed in the HE | neeting the modeled ene RS Registry | rgy performance for this com | puter analysis. Additional |
| Buildi Coolii Heati HVAC | ng-level Verifications: Quality insulation insta Indoor air quality venting System Verifications: None ng System Verifications: None Distribution System Ver Duct leakage testing estic Hot Water System V None | illation (QII) ilation rifications: Verifications: | | | | | | |
| BUILD | DING - FEATURES INFOR | MATION | | - 10 H. | | | | - |
| - | 01 | 02 | | 03 | 04 | 05 | 06 | 07 |
| | Project Name | Conditioned Floor Area | a (ft ²) | Number of Dwelling Units | Number of Bedrooms | Number of Zones | Number of Ventilation Cooling Systems | Number of Water Heating Systems |
| | Peng Residence | 1811 | | 1 | 3 | 1 | 0 | 1 |
| ZONE | INFORMATION | | | | | | C | |
| | 01 | 02 | | 03 | 04 | 05 | 06 | 07 |
| | Zone Name | Zone Type | HVA | AC System Name | Zone Floor Area (ft ²) | Avg. Ceiling Height | Water Heating System 1 | Water Heating System |

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Calculation Date/Time: 2020-09-28T12:35:18-07:00 Input File Name: 0313PEN.ribd19x

CF1R-PRF-01E

(Page 3 of 10)

s condition for meeting the modeled energy performance for this computer analysis.

| | 03 | 04 | 05 | 06 | 07 |
|------------------------|-----------------------------|--------------------|-----------------|--|------------------------------------|
| rea (ft ²) | Number of Dwelling Units | Number of Bedrooms | Number of Zones | Number of Ventilation Cooling Systems | Number of Water Heating Systems |
| | 1 | 3 | 1 | 0 | 1 |

| 03 | 04 | 05 | 06 | 07 |
|------------------|------------------------------------|---------------------|------------------------|------------------------|
| HVAC System Name | Zone Floor Area (ft ²) | Avg. Ceiling Height | Water Heating System 1 | Water Heating System 2 |
| Res HVAC1 | 1811 | 9 | DHW Sys 1 | N/A |

| notation need at a such nota | 15 Number of Stories 2 | 3: Building complies when efficiency and total compliance margins are greater than or equal to zero | |
|---|--|--|--|
| Total Cond. Floor Area (ft ²) 1811 | 19 Glazing Percentage (%) 28.66% | Beating System Verifications: PV System resized to 2.41 kWdc (a factor of 2.412) to achieve 'Standard Design PV' PV scaling None | |
| ADU Bedroom Count 0 | 21 ADU Conditioned Floor Area 0 | HVAC Distribution System Verifications: Duct leakage testing | |
| Is Natural Gas Available? Yes | | Domestic Hot Water System Verifications: • None | |
| Building Complies with Computer Performance This building incorporates features that require field testing and/or v This building incorporates one or more Special Features shown below | r verification by a certified HERS rater under the supervision of a CEC-approved HERS provider. ow | $ \begin{vmatrix} $ | m Z |
| | | (kWdc)ExceptionModule typeArray typePower ElectronicsCFI(deg)Input(deg)Inft: (x in 12)(%)Solar Access2.41NAStandardFixed (roof mount)nonetrue150-270n/an/a<=7:12 | |
| Penel RA Funder A Stationary - 4015 (Galingi Coulhingues | Schema Version: rev 20200101 | Creating subjy chooses section we set a resolution compliance in equal to the end of the ends. 40,499-26 12:52.57 Creating spin graph section and sect | |
| TE OF COMPLIANCE | CF1R-PRF-01E | 1E CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE | |
| Description: Title 24 Analysis | Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 4 of 10) Input File Name: 0313PEN.ribd19x | 0) Project Name: Peng Residence Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 6 of 10) 0) Calculation Description: Title 24 Analysis Input File Name: 0313PEN.ribd19x (Page 6 of 10) Calculation Description: Title 24 Analysis Input File Name: 0313PEN.ribd19x Calculation Description: Title 24 Analysis Input File Name: 0313PEN.ribd19x (Page 6 of 10) FENESTRATION / GLAZING Input File Name: 0313PEN.ribd19x OPAQUE SURFACE CONSTRUCTIONS OPAQUE SURFACE CONSTRUCTIONS | 10) |
| Description: Title 24 Analysis RFACES L 02 03 me Zone Construction A | Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 4 of 10) Input File Name: 0313PEN.ribd19x 000000000000000000000000000000000000 | Model Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 5 of 10) Project Name: Peng Residence Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 6 of 10) Calculation Description: Title 24 Analysis Input File Name: 0313PEN.ribd19x Input File Name: 0313PEN.ribd19x Input File Name: 0313PEN.ribd19x Input File Name: 0313PEN.ribd19x Calculation Description: Title 24 Analysis Input File Name: 0313PEN.ribd19x Calculation Description: Title 24 Analysis Input File Name: 0313PEN.ribd19x Calculation Description: Title 24 Analysis Input File Name: 0313PEN.ribd19x Calculation Description: Title 24 Analysis Input File Name: 0313PEN.ribd19x Calculation Description: Title 24 Analysis OPAQUE SURFACE CONSTRUCTIONS OPAQUE SURFACE CONSTRUCTIONS OPAQUE SURFACE CONSTRUCTIONS Calculation Description: Title 24 Analysis Office OpaC | -01E F10) |
| Description: Title 24 Analysis OZ O3 RFACES OZ O3 Ne Zone Construction Wall Residence Zone R-21 Wall Vall Residence Zone R-21 Wall Wall Residence Zone R-21 Wall | Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 4 of 10) Input File Name: 0313PEN.ribd19x (Page 4 of 10) 04 05 06 07 08 Azimuth Orientation Gross Area (ft ²) Window and Door Area (ft2) Tilt (deg) 143 Front 496 204 90 233 Left 536 116 90 323 Back 660 128 90 | 0) Project Name: Peng Residence Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 5 of 10) Project Name: Peng Residence Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 5 of 10) Project Name: Peng Residence Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 5 of 10) Project Name: Peng Residence Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 5 of 10) Project Name: Peng Residence Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 5 of 10) Project Name: Peng Residence Intervire: Title 2 Analysis < | -01E f 10) |
| Description: Title 24 Analysis Description: Title 24 Analysis RFACES OZ O3 ne Zone Construction A Wall Residence Zone R-21 Wall Provide Construction A Surface Residence Zone R-0 Wall1 Provide Construction Construction Surface Residence Zone R-0 Wall1 Provide Construction Provide Construction Provide Construction Provide Construction Surface Residence Zone R-20 Wall1 Provide Construction Provide Construction Provide Construction Surface Residence Zone Provide Construction Provide Construction Provide Construction Provide Construction | Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 4 of 10) Input File Name: 0313PEN.ribd19x (Page 4 of 10) 04 05 06 07 08 Azimuth Orientation Gross Area (ft ²) Window and Door Area (ft2) Tilt (deg) 143 Front 496 204 90 233 Left 536 116 90 323 Back 660 128 90 53 Right 376 46: 90 n/a n/a 1 0 n/a | 0) Project Name: Peng Residence Calculation Date/Time: 2000-09-28712:35:10-00 (Page 5 of D) Project Name: Peng Residence Calculation Date/Time: 2000-09-28712:35:10-00 (Page 5 of D) V Calculation Description: Tite 2 Analysis Into Hiele Name: 0.3 USA | -01E f 10) |
| Image: Perig Residence Description: Title 24 Analysis Image: Ima | Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 4 of 10) Input File Name: 0313PEN.ribd19x D4 D5 D6 D7 08 Azimuth Orientation Gross Area (ft ²) Window and Door Area (ft2) Tilt (deg) 143 Front 496 204 90 233 Left 536 116 90 323 Back 660 128 90 53 Right 376 46 90 n/a n/a 1 0 n/a n/a n/a 260 n/a n/a 143 Front 208 112 90 | 0) Project Name: Peng Residence Calculation Description: | -01E f 10) |
| Residence Description: Title 24 Analysis RFACES 02 03 ne Zone Construction A Wall Residence Zone R-21 Wall A Surface Residence Zone R-10 Wall A Floor Residence Zone R-19 Floor No Crawlspace A Vall 2 Garage R-0 Wall A all 2 Garage R-0 Wall A Vall 2 Garage R-0 Wall A Vall 2 Garage R-0 Wall A Vall 2 | Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 4 of 10) Input File Name: 0313PEN.ribd19x D4 D5 D6 D7 O8 Azimuth Orientation Gross Area (ft²) Window and Door Area (ft2) Tilt (deg) 143 Front 496 204 90 233 Left 536 116 90 323 Back 660 128 90 53 Right 376 46 90 n/a n/a 1 0 n/a n/a n/a 1 0 90 stat 11 0 90 1 n/a n/a 1 0 90 stat 820 n/a n/a n/a n/a 12 90 233 Left 50 0 90 stylight 184 0 90 1 | Operate: Name: Note Reductor: Unit 24 Analysis Lange Reductor: Unit | -01E f10) =) })/ |
| Inter Peng Residence Description: Title 24 Analysis IRFACES 1 02 03 me Zone Construction A Wall Residence Zone R-21 Wall A Surface Residence Zone R-21 Wall A Floor Residence Zone R-30 Floor Crawlspace A Vall 2 Garage R-0 Wall A Vall 2 Garage R-0 Wall A Vall 2 Garage R-0 Wall A Vall 2 | Calculation Date/Time: 2020-09-28T12:35:18-07:00 Input File Name: 0313PEN.ribd19x (Page 4 of 10) Input File Name: 0313PEN.ribd19x 04 05 06 07 08 Azimuth Orientation Gross Area (ft ²) Window and Door Area (ft2) Tilt (deg) 143 Front 496 204 90 233 Left 536 116 90 323 Back 660 128 90 53 Right 376 46 90 n/a n/a 1 0 n/a n/a n/a 260 n/a n/a n/a n/a 260 n/a n/a n/a n/a 208 112 90 233 Left 50 0 90 233 Left 50 0 90 233 Left 50 0 90 233 Right 184 0 90 53 Right | Project Name Progresulation Operation Calculation Date/Time: 20:00-20:00:00:00:00:00:00:00:00:00:00:00:00:0 | -01E f10) =) |
| Image: Perig Residence n Description: Title 24 Analysis JRFACES J1 0Z 03 Imme Zone Construction A t Wall Residence Zone R-21 Wall A 'Surface Residence Zone R-0 Wall A 'Surface Residence Zone R-30 Floor Crawlspace A 'Yall 2 Garage R-0 Wall A Vall 2 | Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 4 of 10) Input File Name: 0313PEN.ribd19x 06 07 08 04 05 06 07 08 Azimuth Orientation Gross Area (ft ²) Window and Door Area (ft2) Tilt (deg) 143 Front 496 204 90 233 Left 536 116 90 323 Back 660 128 90 53 Right 376 46 90 n/a n/a 1 0 n/a n/a n/a 1 0 90 143 Front 208 112 90 143 Pront 208 112 90 233 Left 50 0 90 < | Operative rank readed and ranker rank readed and ranker rank rank rank rank rank rank rank ran | -01E f10) =))/ i |
| Residence Intervention: Title 24 Analysis RFACES 1 OZ O3 me Zone Construction A wall Residence Zone R-21 Wall A Surface Residence Zone R-21 Wall A Surface Residence Zone R-30 Floor Crawlspace A Wall 2 Garage R-19 Floor No Crawlspace A Wall 2 Garage R-0 Wall A Wall 2 | Calculation Date/Time: 2020-09-28T12:35:18-07:00 (Page 4 of 10) Input File Name: 0313PEN.ribd19x 06 07 08 04 05 06 07 08 Azimuth Orientation Gross Area (ft ²) Window and Door Area (ft2) Tilt (deg) 143 Front 496 204 90 233 Left 536 116 90 323 Back 660 128 90 53 Right 376 46 90 n/a n/a 1 0 n/a n/a n/a 1 0 90 n/a n/a 12 90 143 n/a n/a 1 0 90 n/a n/a 1 0 90 state 50 0 90 1 n/a n/a 12 90 11 n/a n/a 10 11 11 n/a 11 12 10 11 107 25 | Operate Name: Non-Residence Segnification Description: The 24 Augusts Description: The 24 August Description: The | -01E f10) =) =) =) =) =) =) =) |
| In Description: Title 24 Analysis URFACES D1 02 03 ame Zone Construction A t Wall Residence Zone R-21 Wall A Wall Residence Zone R-21 Wall C Surface Residence Zone R-21 Wall C 'Surface Residence Zone R-21 Wall C 'Surface Residence Zone R-30 Floor Crawlspace D 'or to Residence Zone R-19 Floor No Crawlspace D 'or to Residence Zone R-19 Floor No Crawlspace D Wall 2 Garage_ R-0 Wall D Wall 2 Garage R-0 Wall D Image 2 03< | Calculation Date/Time: 2020-09-28T12:35:18-07:00 Input File Name: 0313PEN.ribd19x (Page 4 of 10) Input File Name: 0313PEN.ribd19x 04 05 06 07 08 Azimuth Orientation Gross Area (ft ²) Window and Door Area (ft2) Tilt (deg) 143 Front 496 204 90 233 Left 536 116 90 323 Back 660 128 90 53 Right 376 46 90 n/a n/a 1 0 n/a n/a n/a 260 n/a n/a n/a n/a 260 n/a n/a 143 Front 208 112 90 233 Left 50 0 90 233 Left 50 0 90 233 Left 50 0 90 233 Left 184 0 90 1070 25 | Project Name Programmentary Distances 2013 Programment 2014 Programeter 2014 Programment 2014 Programment 2014 | -01E f10) |
| ame Zone Construction A ame Zone Construction A it Wall Residence Zone R-21 Wall A tWall Residence Zone R-21 Wall A r Surface Zone>_Garage_ R-0 Wall A d Floor Residence Zone R-30 Floor No Crawlspace A or to Residence Zone R-30 Floor No Crawlspace A Wall 2 _Garage_ R-0 Wall A JRFACES - CATHEDRAL CEILINGS A A A I O2 03 O4 O5 Jone | Calculation Date/Time: 2020-09-28T12:35:18-07:00 Input File Name: 0313PEN.ribd19x (Page 4 of 10) (Page 4 of 10) D4 D5 D6 D7 D8 Azimuth Orientation Gross Area (R ²) Window and Door Area (ft2) Tift (deg) 143 Front 496 204 90 233 Left 536 116 90 323 Back 660 128 90 53 Right 376 466 90 n/a n/a 1 0 n/a n/a n/a 1 0 n/a n/a n/a 1 0 90 323 Back 500 0 90 143 Front 208 112 90 233 Left 50 0 90 30 33 Right 184 0 90 31 143 Front 208 112 90 11 1070 25 <td>A micro description 12 - Advise Calculation Banger Transmost (product) Calculation Advise <th< td=""><td>-01E f10)</td></th<></td> | A micro description 12 - Advise Calculation Banger Transmost (product) Calculation Advise Calculation Advise <th< td=""><td>-01E f10)</td></th<> | -01E f10) |

REVISIONS

| Calculation Date/Time: 2020-09-28T12:35:18-07:00 | |
|--|--|
| Input File Name: 0313PEN.ribd19x | |

| 01 | - | 02 | | 03 | 04 |
|-------------------------------|---------|---------------|--------------|--------------------------------|--|
| Name | - | Туре | Fan | Power (Watts/CFM) | Name |
| HVAC Far | 11 | HVAC Fan | | 0.45 | n/a |
| IAQ (INDOOR AIR QUALITY) FANS | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 |
| Dwelling Unit | IAQ CFM | IAQ Watts/CFM | IAQ Fan Type | IAQ Recovery Effectiveness (%) | IAQ Recovery Effectiveness - SREIAQ Recovery Effectiveness - SRE |
| SFam IAQVentRpt | 80 | 0.25 | Default | 0 | n/a |
| | | CHE | E D S | | |

 Registration Number:
 420-P010122458A-000-000-0000000-0000
 Registration Date/Time:
 09/28/2020 14:02
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 Report Version: 2019.1.108
 Report Generated: 2020-09-28
 12:35:57

Schema Version: rev 20200101

| Name | System Type | Name | Name | Fan Name | Name | Thermostat Type | Status | Existing Condition | Equipment Count | Equipment Count |
|--|---|---------------------------|-----------------------------|--------------------------------------|--|--------------------------------|-----------------------|---------------------------------|-----------------------------|--------------------|
| Res HVAC1 | Heating and cooling system other | Heating Component 1 | Cooling Component 1 | HVAC Fan 1 | Air Distribution System 1 | Setback | New | NA | 1 | 1 |
| | | | | | | | - | | | |
| Registration Number: 420 TICE: This document has been | -P010122458A-000-000-0000000-0 generated by ConSol Home Energy Efficient when the accuracy or completeness of the | 000 ncy Rating System | Regi Services, Inc. (CHE | stration Date/T ERS) using inform | ime: 09/28/2020 ation uploaded by t | 14:02 hird parties not affi | HEF liated with or | RS Provider: related to CHEE | CHEERS RS. Therefore, CH | EERS is not |
| A Building Energy Efficier | ncy Standards - 2019 Residential Co | mpliance | Repo | ort Version: 201 | 9.1.108 | | Rep | ort Generate | d: 2020-09-28 | 12:35:57 |

| WATER HEATING SYST | EMS | | | | | | | | | | | | | - | | |
|---------------------|----------------------------|----------------------------|----------------------------|------------|------------------------|-----------------------------------|---------------|-----------------|--|-------------------------------------|-----------------------|----------------|-----------------------------------|------------------------|-------------------------------------|-------------------------------|
| 01 | | 02 | | 03 | 1.11 | | 0 | 94 | | 05 | | 06 | | | | 07 |
| Name | s | ystem Type | Dist | ributio | n Type | Water Heater Name (#) | | | (#) So | olar Heating S | ystem | Comp | Compact Distribution | | HERS \ | /erification |
| DHW Sys 1 | Dom | estic Hot Water (DHW) | Standard Distrib System | | tribution n | ibution DHW Heat | | ater 1 (1) | l) n/a | | | | None | | n/a | |
| WATER HEATERS | | | | | | | - | | | | | | | | | |
| 01 | 02 | 03 | | 04 | 05 | 06 | | 07 | 08 | 09 | 10 | | 11 | | | 12 |
| Name | Heating Element Type | : Tank T | уре | # Units | Tank Vol. (gal) | Energy Factor or Efficiency | Input or I | Rating Pilot | Tank Insulation R-value (Int/Ext) | Standby Loss or Recovery Eff. | 1st Hr. F or Flow | lating Rate | NEEA Heat Brand or N | Pump 1odel | Tank Ambi | Location or ent Condition |
| DHW Heater 1 | Gas | Consur Instantar | ner ieous | 1 | Ø | 0.96-UEF | 200 Bti | 000- u/Hr | σ | n/a | n/a | I. | n/a | | | n/a |
| WATER HEATING - HEI | RS VERIFICA | TION | | - | | | | | | - | _ | | | - | - | |
| 01 | 1 | 02 | (|)3 | 1 | 04 | | | 05 | 06 | 1 | 1 | 07 | | - | 08 |
| Name | Pipe | Insulation | Paralle | l Pipin | g C | Compact Distri | bution | Compac | Compact Distribution Type | | Recirculation Control | | Central DHW Distribution | | Shower Drain Water Heat Recovery | |
| DHW Sys 1 - 1/1 | Not | Required | Not R | equired | | Not Requir | ed | 200 | None | Not Rec | quired | | Not Require | d | Not | Required |
| SPACE CONDITIONING | SYSTEMS | in an an | | | | | _ | | | | | | | | | |
| 01 | | 02 | | - | 03 | 04 | 111 | 05 | 06 | 07 | | 08 | 09 | 10 | | 11 |
| Name | | System Ty | pe | Hea | ating Uni Name | it Cooling U Name | nit f | Fan Name | Distributio Name | on Requir Thermo Type | ed stat | Status | Verified Existing Condition | Heati Equipn Cou | ing nent nt | Cooling Equipment Count |
| Res HVAC1 | -1 | Heating and cooli other | ng system | F Col | ieating mponen 1 | Cooling t Compone | nt H | IVAC Fan 1 | Air Distributio System 1 | an Setbao | ;k | New | NA | 1 | | 1 |

CERTIFICATE OF COMPLIANCE

Project Name: Peng Residence

Calculation Date/Time: 2020-09-28T12:35:18-07:00

Report Version: 2019.1.108 Report Generated: 2020-09-28 12:35:57 Schema Version: rev 20200101

| CERTIFICATE OF COMPLIANCE |
|------------------------------|
| Project Name: Peng Residence |

CF1R-PRF-01E

(Page 7 of 10)

sidence Calculation Description: Title 24 Analysis

CERTIFICATE OF COMPLIANCE

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Calculation Date/Time: 2020-09-28T12:35:18-07:00 Input File Name: 0313PEN.ribd19x

| HVAC - HEATING UNIT | Г TYPES | | | | | | | | | | | |
|--|------------------------------|----------------------------|----------------------|------------|-----------------------|----------------|---------------|------------------------|----------------------|----------------------|---------------------|--|
| | 01 | | 02 | | 100 | | 03 | 100 | | 04 | | |
| | Name | 1 | System Typ | e | 1.00 | N | umber of Unit | ts. | Heating Efficiency | | | |
| Heating Component 1 | | Ce | Central gas furnace | | | | 1 | | AFUE-95 | | | |
| HVAC - COOLING UNI | TTYPES | | 1. | - | | | | | | | | |
| 01 | 02 | 03 | 04 | | | 05 | | 06 | 07 | | | |
| Name | Name System Type Number of | | Inits Efficiency EER | | ER | Efficiency SE | ER Zona | ally Controlled | Mulit-sp Compre | eed ssor | HERS Ve | |
| Cooling Component | 1 No Cooling | 1 | | | | - | | Not Zonal | Single Sp | beed | - "î | |
| HVAC - DISTRIBUTION | SYSTEMS | | | | | | | | | - | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 1.0 | |
| | | | Duct Ins | s. R-value | Duct | Location | Su | rface Area | | | | |
| Name | Туре | Design Type | Supply | Return | Supply | Return | Supply | Return | Bypass Duct | Duct Lea | kage \ | |
| Air Distribution System 1 | Unconditioned crawl space | Non-Verified | R-6 | R-6 | Crawl Space | Crawl Space | n/a | n/a | No Bypass Duct | Sealed a Tester | and E | |
| HVAC DISTRIBUTION | - HERS VERIFICATION | | | _ | | | | | | | | |
| 01 | 02 | 03 | 04 | | 05 | - | 06 | 07 | | 08 | 1-0-1 | |
| Name | Duct Leakage Verification | Duct Leakage Target (%) | Verified Locatio | Duçt on | Verified Do Design | uct Bu | ried Ducts | Deeply Buried Ducts | Low-le Ha | eakage Air andler | Low Ducts Con | |
| Air Distribution System 1-hers-dist | Yes | 5.0 | Not Requ | iired | Not Requir | ed No | ot Required | Credit not taken | Not | Required | ired | |

| Agistration Number: 430 B0101334584 000 000 000000 0000 | Pagistration Data /Time: 00/28/2020 14:02 | HERE Browider: CHEEDS |
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| A Building Energy Efficiency Standards - 2019 Residential Compliance | Report Version: 2019.1.108 | Report Generated: 2020-09-28 12:3 |
| | Schema Version: rev 20200101 | |

| Calculation Description: Title 24 Analysis | Input File Name: 0313PEN.ribd19x | | | | | |
|---|--|--------------------------------|--|--|--|--|
| DOCUMENTATION AUTHOR'S DECLARATION STATEMENT | | | | | | |
| 1. I certify that this Certificate of Compliance documentation is accurate and complete. | and the second sec | | | | | |
| Documentation Author Name: Westly Keister | Documentation Author Signature: Westly Keister | | | | | |
| Company: Energy Calc Co. | Signature Date: 09/28/2020 | | | | | |
| Address: 45 Mitchell Blvd #16 | CEA/ HERS Certification Identification (If applicable): | | | | | |
| City/State/Zip: San Rafael, CA 94903 | Phone: 415-457-0990 | | | | | |
| RESPONSIBLE PERSON'S DECLARATION STATEMENT | 17.00 | | | | | |
| certify the following under penalty of perjury, under the laws of the State of California: I am eligible under Division 3 of the Business and Professions Code to accept responsibility f I certify that the energy features and performance specifications identified on this Certificat The building design features or system design features identified on this Certificate of Comp calculations, plans and specifications submitted to the enforcement agency for approval with | or the building design identified on this Certificate of Compliance. e of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the Californ liance are consistent with the information provided on other applicable compliance docu h this building permit application. | a Code of Reg nents, worksh | | | | |
| Responsible Designer Name: Edward Love | Responsible Designer Signature: Edward Love | | | | | |
| Company: Edward C Love, Architect | Date Signed: 09/28/2020 | | | | | |
| Address: 720 Mill St | License: C 23077 | | | | | |
| City/State/Zip: Half Moon Bay, CA 94019 | Phone: (650) 728-7615 | | | | | |

Digitally signed by ConSol Home Energy Efficiency Rating System Services, Inc. (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

 Registration Number: 420-P010122458A-000-000-0000000-0000
 Registration Date/Time: 09/28/2020 14:02
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 Report Version: 2019.1.108
 Report Generated: 2020-09-28
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| | | REVISIONS | |
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| 0 | CF1R-PRF-01E (Page 8 of 10) | | |
| | | | |
| 04 Heating Efficie | ency | | |
| AFUE-95 | | | |
| 07 | 08 | EDWARD C. LOVE, ARCHITECT | |
| ulit-speed H ompressor H | ERS Verification | $\delta = \frac{1}{2}$ | |
| ngle Speed | n/a | | |
| 10 11 | 12 | | |
| pass Duct Duct Leakag | e HERS Verification | arch of the second seco | |
| No Sealed and pass Tested | Air Distribution System 1-hers-dist | Varo Moon (650). | |
| 08 | 09 | | |
| Low-leakage Air Handler | Low Leakage Ducts Entirely in Conditioned | | |
| Not Required | No | | |
| | | New Residence Gotsu Inc. 568 Ferdinand El Granada, C | |
| 0 | CF1R-PRF-01E (Page 10 of 10) | | |
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| t 6 of the California Code compliance documents, | e of Regulations. worksheets, | | |
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| | | OF SHEETS | |

| ame | Qty. | Sıze | WUCOLS |
|--------|------|--------|----------|
| OX | 4 | 15 gal | Moderate |
| Tree | 3 | 15 gal | Low |
| on | J | 5 gal | Low |
| one | 5 | 5 gal | Low |
| ender | 7 | 5 gal | Low |
| ranium | 14 | l gal | Low |
| wort | 8 | 5 gal | Low |
| age | 6 | 5 gal | Moderate |
| | 12 | l gal | Low |
| d | 6 | 5 gal | Moderate |
| semary | 5 | 5 gal | Low |

| Plant | 'Iant Schedule | | | | | | | | |
|-----------------|--------------------------------|-------------------------|------|-------|----------|--|--|--|--|
| | Botanical Name | Common Name | Qty. | Sıze | WUCOLS | | | | |
| Ċ | Dianella revoluta 'Little Rev' | Flax Lily | 16 | l gal | Low | | | | |
| $\left(\right)$ | Grewia occidentalis | Four Corner | 8 | 5 gal | Moderate | | | | |
| | Anıgozanthos Yellow Gem' | Kangaroo Paw | 7 | l gal | Low | | | | |
| \bigcirc | Prunus caroliniana | Carolina Cherry Laurel | 14 | 5 gal | Low | | | | |
| | Hibiscus Rosa-sinensis | Chinese hibiscus | 4 | 5 gal | Moderate | | | | |
| | Salvia Leucantha | Mexican Bush Sage | 16 | 5 gal | Low | | | | |
| \bigcirc | Arctostaphylos | Pacific Mist Manzanitas | 29 | l gal | Low | | | | |
| $\left(\right)$ | Tracrelospermum Jasminoides | Jasmine | 7 | 5 gal | Moderate | | | | |
| Ď | Carex Divulsa | Grassland sedge | 10 | l gal | Low | | | | |
| \bigcirc | Rhododendron 'Formosa' | Red Formosa Azelea | 7 | 5 gal | Low | | | | |
| | | | | | | | | | |

| | amend as follows 6cy per k 10# per l |
|-----------------------|--|
| 2. | Contractor to app except in areas fo |
| 3. | Landscape shall co |
| 4. | All landscaping sh |
| <u>%of</u> : 14.3% | <u>Landscape Areas</u> : 5 5sf |
| 14.6% | 530sf |
| 9.4% | 338sf |
| 7.7% | 278sf |
| 53.8% | , 59sf 632sf 40sf |
| <u>%of</u> : 20.6% | <u>Plants</u> : 35ea |
| 79.4% | 135ea |

= RRIAN ΠΛΤΈΛΝΤΙ Γ΄ ΝΛ - C 67063 ΕΥΔ 6/30/91 REEDANGIRI Ε ΑΝΙ V ΕΛR ΤΗΕ ΔΑΡΤΙΛΝΕ ΛΕ ΤΗΕ ΕΤΡΙ ΙΛΤΙ IRE ΛΛΙ/ΕREN RV ΤΗΕ ΔΤΤΔΛΗΕΝ ΛΔΙ ΛΙ ΙΙ ΔΤΙΛΝΕ 💻

 \sum

| BA GOVERNING CODE | SIS OF DESIGN 2019 california building code (CBC) |
|---|--|
| SOIL CRITERIA: | ALLOWABLE BEARING PRESSURE = 2,500 psf |
| DESIGN LOADS: | ROOF DEAD LOAD = 20 psf ROOF LIVE LOAD = 20 psf FLOOR DEAD LOAD = 16 psf FLOOR LIVE LOAD = 40 psf |
| WIND DESIGN CRITERIA: | EXPOSURE B, BASIC WIND SPEED = 95 mph $I_W = I.O$ |
| SEISMIC: SITE CLASS C SEISMIC DESIGN CATEGOR | R = 6.5, Ss = 2.126, SI = 0.811 Sds = 1.702, SdI = 0.757, I = 1.0, p = 1.3 X E |

| | m | REVISION B |
|---|---------------------------|--|
| | /23/25 | <u>^</u> 6/1/2I BI |
| SEE STRUCTURAL SPECIFICATIONS ON SHEET S-6 FOR | ي 2 | <u>2</u> 2/23/23 Bi |
| FURTHER REQUIREMENTS. FOR WATERPROOFING, AND DRAINAGE REQUIREMENTS, SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS, THESE REQUIREMENTS HAVE NOT BEEN ADDRESSED ON THE STRUCTURAL DRAWINGS | REVISION | |
| INDICATES A 36" WIDE SECTION OF THE (N) STEM TO BE F/A INDICATES A 36" WIDE SECTION OF THE (N) STEM TO BE REMOVED TO CREATE CRAWL SPACE ACCESS FROM (E) TO THE (N) AREAS. PROVIDE A 4X (DEPTH TO MATCH THE DEPTH OF THE EXISTING JOISTS) X 48" LONG HEADER AT THE (N) OPENING. AT NEW FOOTINGS IT INDICATES A 36" WIDE X 18" HIGH FOUNDATION ACCESS, PROVIDE A 4X DEPTH OF THE JOISTS X 48" LONG HEADER AT SILL PLATE, PROVIDE A 90° HOOK AT ALL TOP BARS WITH | DLANNING | FILE: I69I-FO-R |
| 2" RETURN AT EDGE OF THE STEM OPENING. FOUNDATION EXCAVATION SHALL PERFORMED UNDER THE DESERVATION OF <u>SIGMA PRIME GEOSCIENCES, INC.</u> , FOOTINGS SHOULD HAVE A MINIMUM WIDTH OF 14 INCHES AND EXTEND AT LEAST 12 INCHES NTO APPROVED SOILS. FOOTING DEPTHS INDICATED ARE SUBJECT TO MODIFICATION BY THE GEOTECHNICAL ENGINEER BASED ON SUBSURFACE CONDITIONS ENCOUNTERED DURING EXCAVATION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITIONS ENCOUNTERED DURING THE EXCAVATION OPERATION THAT PREVENT CONFORMANCE NITH THESE PLANS AND SPECIFICATIONS, AND SHALL PROCEED WITH EXCAVATION ONLY UPON RECEIVING INSTRUCTIONS FROM THE ENGINEER. CONTINUOUS FOOTINGS SHALL BE REINFORCED WITH (2) #4 BARS TOP ¢ BOTTOM AND #4 BARS AT 12" O.C. HORIZ., ADD #4 VERTICAL BARS AT 24" O.C. TO TIE BARS TOGETHER, SEE DETAIL 36/S-5 FOR REBAR LAYOUT REQUIREMENTS. PROVIDE 6/8" \$\Phi\$ X 12" LONG ANCHOR BOLTS WITH 3" X 3" X 1/4" WASHER PLATES AT 48" O.C., U.N.O. BOLTS MUST BE SET IN PLACE WITH THE FORMS. REFER TO SOILS REPORT BY <u>SIGMA PRIME GEOSCIENCES, INC.</u> FOR ALL REQUIREMENTS. | A PLAN CHECK REPLY 6/1/21 | BRIAN DOTSON CONSULTING ENGINEER P.O. BOX 371022 MONTARA, CA 94037 TEL: (650) 722-0219 FAX: (650) 728-5429 |
| SOILS ENGINEER SHALL VERIFY IN WRITING TO THE BUILDING OFFICIAL THAT THE DRAWINGS COMPLY WITH THE REQUIREMENTS OF THE SOILS REPORT, AND THAT THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT, AND THE UTILITY TRENCHES BEEN PROPERLY BACKFILLED. ALL SOILS SITE WORK SHALL BE DONE UNDER THE DIRECT OBSERVATION OF THE SOILS ENGINEER. | | PROFESSION CLU IAN F DOJSON CLU IAN F DOJSON COM COM COM COM COM COM COM COM |
| TO THE LINE WITH ALL LOOSE MATERIAL REMOVED. EXCAVATIONS SHALL 3E KEPT FREE OF STANDING WATER AND SHALL BE CHECKED, AND APPROVED IN WRITING BY THE SOILS ENGINEER <u>PRIOR</u> TO PLACEMENT OF ANY CONCRETE. ISE SUMPSON "SSTR" BOLTS FOR INSTALLATION OF ALL HOLDOWN ANCHORS | | Exp. 6/30/21 FX CIVIL OF CAL 1FOR |
| N FOOTINGS. USE SIMPSON "CN" COUPLER NUTS WITH THREADED RODS FOR EXTENDING ANCHOR BOLTS, WHEN REQUIRED. BLAB SHALL BE 4" THICK, AND REINFORCED WITH #3 BARS AT 12" O.C. | | P |
| SAND, UNDERLAIN BY AN IMPERMEABLE MEMBRANE AT LEAST & MIL THICK SUPPORTED ON A BASE WITH AT LEAST 5" OF DRAIN ROCK. THE SAND SHOULD BE LIGHTLY MOISTENED JUST PRIOR TO PLACING THE CONCRETE. | | ц Ц П |
| BLOCKING AND/OR BRIDGING AS RECOMMENDED BY THE TRUSS IOIST COMPANY. PARALLAMS SHALL BE RATED AS 2.0E, ALL 11CROLLAMS SHALL BE I.9E. ALL BEAMS 5-1/4" AND WIDER SHALL HAVE FULL BEARING ON THE TOP PLATES BY EXTENDING THEM TO THE OUTSIDE FACE OF STUDS. | | VEN |
| IOISTS HANGERS SHALL BE SIMPSON "IUS" SERIES AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS, U.N.O. ON PLANS. ISE 3/4" APA RATED T & G FLOOR SHEATHING WITH IOD NAILS AT o" O.C. EDGES AND IO" O.C. FIELD. (BLOCKING IS NOT REQUIRED). BLUE FIRST, WITH MINIMUM PLYWOOD SHEET DIMENSION OF 24", INLESS ALL EDGES OF THE UNDERSIZED SHEETS ARE SUPPORTED BY FRAMING MEMBERS OR 2X4 FLAT BLOCKING. PLYWOOD SHALL BE NSTALLED WITH THE LONG DIMENSION PERPENDICULAR TO THE JOIST NITH STAGGERED END JOINTS AND WITH I/8" SPACING IN BETWEEN PANELS IN BEG OTHERWIGE INDICATED BY THE MANUEACTURED | | G RESIDEI RDINAND A GRANADA, |
| JOIST HANGERS SHALL BE SIMPSON "IUS" SERIES (LONGEST POSSIBLE HANGER FOR JOIST DEPTH), AND INSTALLED AS PER MANUFACTURERS SPECIFICATIONS, UNLESS NOTED OTHERWISE ON THE PLAN. PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL NON-BEARING | | PEN 68 FEF EL (|
| WALLS. PROVIDE MINIMUM NAILING IN ACCORDANCE WITH NAILING SCHEDULE ON SHEET S-6, UNLESS OTHERWISE CALLED FOR ON THE PLAN | | LO LO |
| ALL DECK FRAMING MEMBERS SHALL BE PRESSURE TREATED LUMBER. ALL HARDWARE AND NAILS SHALL BE HOT-DIPPED GALVANIZED. PRESSSURE-PREVERVATIVE TREATED AND FIRE RESARDENT TREATED WOOD CAN BE CAUSTIC TO ZINC COATED (OR GALVANIZED) STEEL. GALVANIZED CONNECTORS SHOULD NOT BE PLACED IN CONTACT WITH TREATED WOOD THAT HAS NOT BEEN PROPERLY AIR SEASONED OR PROPERLY KILN DRIED. REFER TO MATERIAL SUPPLIER FOR SPECIFIC RECOMMENDATIONS. | | |
| HARDY FRAMES ARE PRODUCT OF HARDY INDUSTRIES INC. CC REPORT NO. ESR-2089. INSTALLATION SHALL BE AS SHOWN ON THESE DRAWINGS. | | |
| DEE ARCHITECTURAL DRAWINGS FOR EXACT SIZES AND LOCATIONS OF OPENINGS IN WALLS AND FLOOR, THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR THEIR SPECIFIC REQUIREMENTS PRIOR TO ANY FRAMING. | | Z |
| 20 NOT SCALE THESE DRAWINGS FOR DIMENSIONS, REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS. | | |
| AND SHALL VERIFY ALL CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO PERFORMING ANY WORK IN THE AFFECTED AREAS. | | FOUNDATION |
| | | JOB No: I6 |
| | | DATE: 2/2/ SCALE: AS NOTE DRAWN BY: E |
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| | | I S-1 |

OF 6 SHEETS

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

- REIAN DATEANT OR A CARAGE EVE 6/30/21 RECONNERIE AND VEAR THE DARTIONS OF THE CRUICTURE ANVERED RV THE ATTACHED AN AUDITATIONS -

SECOND FRAMING PLAN NOTES:

- SEE STRUCTURAL SPECIFICATIONS ON SHEET S-6 FOR FURTHER REQUIREMENTS.
- FOR WATERPROOFING, AND DRAINAGE REQUIREMENTS, SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS, THESE REQUIREMENTS HAVE NOT BEEN ADDRESSED ON THE STRUCTURAL DRAWINGS. ALL ROOF AREAS SHALL HAVE GUTTERS THAT ARE DRAINED WELL AWAY FROM THE STRUCTURE WITH ONLY SMOOTH AND SOLID NON-PERFORATED ABS OR PVC PIPES.
- SEE SHEET S-3 FOR LOW ROOF FRAMING NOTES AND ADDITIONAL NOTES.
- PROVIDE SOLID BLOCKING UNDER DOUBLE TRIMMERS AND POSTS IN BETWEEN FLOOR SPACE. PROVIDE POSTS TO MATCH THOSE CALLED FOR AT THE UPPER FLOORS, AND CONTINUE TO THE FOUNDATION. HOLDOWNS CALLED FOR ON THE UPPER FLOORS SHALL BE MATCHED AT THE LOWER FLOOR AND TO BE CONTINUED TO FOUNDATION, U.N.O. ON PLANS.
- USE 2X STUDS AT 16" O.C. FOR WALL FRAMING, SEE DETAIL I/S-4 FOR ALLOWABLE NOTCH AND HOLE SIZES IN STUDS. SEE DETAIL 2/S-4 FOR TYPICAL WALL FRAMING. ALL DOUBLE STUDS SHALL BE JOINED WITH 16d'S AT 8" O.C.
- USE TRUSS JOISTS AS INDICATED ON THE DRAWINGS. INSTALL BLOCKING AND/OR BRIDGING AS RECOMMENDED BY THE TRUSS JOIST COMPANY. PARALLAMS SHALL BE RATED AS 2.0E, ALL MICROLLAMS SHALL BE I.9E. ALL BEAMS 5-1/4" AND WIDER SHALL HAVE FULL BEARING ON THE TOP PLATES BY EXTENDING THEM TO THE OUTSIDE FACE OF STUDS.
- JOISTS HANGERS SHALL BE SIMPSON "IUS" SERIES AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS, U.N.O. ON PLANS.
- USE 3/4" APA RATED T & G FLOOR SHEATHING WITH IOD NAILS AT 6" O.C. EDGES AND 10" O.C. FIELD. (BLOCKING IS NOT REQUIRED). GLUE FIRST, WITH MINIMUM PLYWOOD SHEET DIMENSION OF 24", UNLESS ALL EDGES OF THE UNDERSIZED SHEETS ARE SUPPORTED BY FRAMING MEMBERS OR 2X4 FLAT BLOCKING. PLYWOOD SHALL BE INSTALLED WITH THE LONG DIMENSION PERPENDICULAR TO THE JOIST WITH STAGGERED END JOINTS AND WITH 1/8" SPACING IN BETWEEN PANELS, UNLESS OTHERWISE INDICATED BY THE MANUFACTURER.
- PARALLAMS ARE PRODUCTS OF TRUSS JOISTS COMPANY. PARALLAMS SHALL BE RATED AS 2.2E, ALL MICROLLAMS SHALL BE 2.0E. ALL BEAMS 5-1/4" AND WIDER SHALL HAVE FULL BEARING ON THE TOP PLATES BY EXTENDING THEM TO THE OUTSIDE FACE OF STUDS.
- PROVIDE MINIMUM NAILING IN ACCORDANCE WITH NAILING SCHEDULE ON SHEET S-6, UNLESS OTHERWISE CALLED FOR ON THE PLAN.
- MINDICATES SHEAR WALL, SEE SHEET S-6. ONLY WALLS ee QUALIFYING AS STRUCTURAL SHEAR WALLS ARE SHOWN, PLYWOOD TO MATCH THICKNESS OF THE SHEAR WALLS WILL BE REQUIRED TO ALLOW FOR EITHER BACKING FOR FINISH MATERIAL OR AS SHIM TO CREATE SAME THICKNESS BEFORE A FINISHING MATERIAL IS APPLIED.
- $-\langle H2 \rangle$ INDICATES HDU2 ON 4X POSTS (OR HD3B ON 4X POSTS) - AT END OF A SHEAR WALL. USE "CN" COUPLER NUTS WITH THREADED RODS FOR EXTENDING ANCHOR BOLTS, WHEN REQUIRED.
- (H4) INDICATES HDU4 ON 4X POSTS (OR HD5B ON 4X POSTS) AT END OF A SHEAR WALL. USE "CN" COUPLER NUTS WITH THREADED RODS FOR EXTENDING ANCHOR BOLTS, WHEN REQUIRED.
- (H5) INDICATES HDUS ON 4X POSTS (OR HDTB ON 4X POSTS) AT END OF A SHEAR WALL. USE "CN" COUPLER NUTS WITH THREADED RODS FOR EXTENDING ANCHOR BOLTS, WHEN REQUIRED.
- ALL DECK FRAMING MEMBERS SHALL BE PRESSURE TREATED LUMBER. ALL HARDWARE AND NAILS SHALL BE HOT-DIPPED GALVANIZED. PRESSSURE-PREVERVATIVE TREATED AND FIRE RESARDENT TREATED WOOD CAN BE CAUSTIC TO ZINC COATED (OR GALVANIZED) STEEL. GALVANIZED CONNECTORS SHOULD NOT BE PLACED IN CONTACT WITH TREATED WOOD THAT HAS NOT BEEN PROPERLY AIR SEASONED OR PROPERLY KILN DRIED. REFER TO MATERIAL SUPPLIER FOR SPECIFIC RECOMMENDATIONS.
- HARDY FRAMES ARE PRODUCT OF HARDY INDUSTRIES INC. ICC REPORT No. ESR-2089. INSTALLATION SHALL BE AS SHOWN ON THESE DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT SIZES AND LOCATIONS OF OPENINGS IN WALLS AND FLOOR, THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR THEIR SPECIFIC REQUIREMENTS PRIOR TO ANY FRAMING.
- DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS, REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY AND REQUIRED SHORING AND SHALL VERIFY ALL CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO PERFORMING ANY WORK IN THE AFFECTED AREAS.

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| SECOND FLOOR FRAMING |
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| OF 6 SHEETS |

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NOTE TO THE CONTRACTOR LL CONFLICTS BETWEEN THE ELEMENTS OF THE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK

ROOF FRAMING PLAN

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

🗕 RDIAN ΠΟΤΡΟΝΙΤΙΟ ΝΟ Ο 67063 ΕΥΔ 6/30/91 RESONNSIRIE ONILVEOR THE ΔΟΡΤΙΟΝΙS ΟΕ ΤΗΕ STRUCTURE COVERED RV THE ΔΤΤΔΟΗΕΠ ΟΔΙ ΟΤΙ ΔΤΙΟΝΙS 🕳

BALLOON FRAMED WALL STRAP @ WINDOW SILL & HEADER HEIGHTS NOTE: STRAP ON OUTSIDE FACE SEE **7 * B** NOTE: STRAP ON OUTSIDE FA ONLY IS O.K. ON THIS WALL

ENTIRE ELEVATION $\langle \cdot \rangle$

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| 'EMENTS, SEE ESE REQUIREMENTS RAL DRAWINGS. ALL E DRAINED WELL AWAY 9 SOLID | PROFESSION CAN F DO STATE SUN R F DO STATE No. C 67963 |
| AWINGS, ROOFING SQUARE FEET. | $\begin{array}{c} \overrightarrow{\alpha} \\ Filter \\ \overrightarrow{\alpha} \\ Filter \\ \overrightarrow{\alpha} \overrightarrow{\alpha} \overrightarrow{\alpha} $ |
| Y THE THICKNESS AILS AT 6" O.C. REQUIRED). WITH | |
| INLESS ALL EDGES BY FRAMING MEMBERS INSTALLED WITH THE DT. WITH STAGGERED | |
| ACTURER. | Ш |
| 5 COMPANT: PARALLAMS 5HALL BE 2.0E. LL BEARING THE OUTSIDE | N N N N N N N N N N N N N N N N N N N |
| . SEE DETAIL 6 IN STUDS. SEE LL DOUBLE STUDS | |
| DNLY WALLS S ARE SHOWN, HEAR WALLS BACKING | ANA ANA |
| EATE SAME IS APPLIED. | GR I GR |
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| IN <u>4X POSTS)</u> ION TO BEAM BELOW | |
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| IZES AND LOCATIONS RACTOR SHALL ECIFIC REQUIREMENTS | PLAN |
| IONS, REFER TO THE DNS. | U D N |
| Y AND REQUIRED SHORING ELD AND REPORT ANY | RAM |
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| | II S-3 |

OF 6 SHEETS

ROOF FRAMING PLAN NOTES:

- SEE STRUCTURAL SPECIFICATIONS ON SHEET S-FURTHER REQUIREMENTS.

- FOR WATERPROOFING, AND DRAINAGE REQUIRE ARCHITECTURAL AND/OR CIVIL DRAWINGS, THES HAVE NOT BEEN ADDRESSED ON THE STRUCTUR ROOF AREAS SHALL HAVE GUTTERS THAT ARE FROM THE STRUCTURE WITH ONLY SMOOTH AND NON-PERFORATED ABS OR PVC PIPES.
- USE ROOF RAFTERS AS INDICATED ON THE DRA WEIGHT SHALL NOT EXCEED 650 LBS PER 100 S

- USE 1/2" APA RATED ROOF SHEATHING (VERIFY WITH THE ROOFING MANUFACTURER) WITH 8d NA EDGES AND 12" O.C. FIELD (BLOCKING IS NOT I MINIMUM PLYWOOD SHEET DIMENSION OF 24", UN OF THE UNDERSIZED SHEETS ARE SUPPORTED I OR 2X4 FLAT BLOCKING. PLYWOOD SHALL BE I LONG DIMENSION PERPENDICULAR TO THE JOIST END JOINTS AND WITH 1/8" SPACING IN BETWEEN UNLESS OTHERWISE INDICATED BY THE MANUFA

- PARALLAMS ARE PRODUCTS OF TRUSS JOISTS SHALL BE RATED AS 2.2E, ALL MICROLLAMS S ALL BEAMS 5-1/4" AND WIDER SHALL HAVE FUL ON THE TOP PLATES BY EXTENDING THEM TO T FACE OF STUDS.
- USE 2X STUDS AT 16" O.C. FOR WALL FRAMING. I/S-4 FOR ALLOWABLE NOTCH AND HOLE SIZES DETAIL 2/S-4 FOR TYPICAL WALL FRAMING. AL SHALL BE JOINED WITH 160'S AT 8" O.C.
- -\ /INDICATES SHEAR WALL, SEE SHEET S-6. 0 🗸 QUALIFYING AS STRUCTURAL SHEAR WALLS PLYWOOD TO MATCH THICKNESS OF THE SH WILL BE REQUIRED TO ALLOW FOR EITHER I FOR FINISH MATERIAL OR AS SHIM TO CREATHICKNESS BEFORE A FINISHING MATERIAL
- $-\langle \overset{MS}{48} \rangle$ INDICATES MST-48 STRAP ON 4X POSTS AT A SHEAR WALL, FOR CONNECTION IN BETWE! SEE DETAIL 39/S-6.
- $\underbrace{ \overset{\mathsf{MS}}{60} }_{\mathsf{A}} \text{ INDICATES MST-60 STRAP ON 4X POSTS AT A SHEAR WALL, FOR CONNECTION IN BETWEEN$ SEE DETAIL 39/S-6.
- $-\sqrt{\frac{M5}{12}}$ INDICATES MST-72 STRAP ON 4X POSTS AT A SHEAR WALL, FOR CONNECTION IN BETWE' SEE DETAIL 39/S-6.
- (MC) AB) INDICATES MSTC48-B3 STRAP ON 4X POSTS A SHEAR WALL, FOR CONNECTION IN BETWEF SEE DETAIL 40/5-6.
- $-\sqrt{\frac{MC}{66}}$ INDICATES MSTC66-B3 STRAP ON 4X POSTS A SHEAR WALL, FOR CONNECTION IN BETWEE SEE DETAIL 40/S-6.
- HII INDICATES HOUII ON 4X POSTS (OR HDI2 ON AT END OF A SHEAR WALL, FOR CONNECTION SEE DETAIL 41/S-6.
- (HI4) INDICATES HDUI4 ON 6X POSTS (OR HDI2 OF AT END OF A SHEAR WALL, FOR CONNECTIC SEE DETAIL 41/S-6.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT SIZ OF OPENINGS IN WALLS AND FLOOR, THE CONTR COORDINATE WITH ALL TRADES FOR THEIR SPE PRIOR TO ANY FRAMING.
- DO NOT SCALE THESE DRAWINGS FOR DIMENSIO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIO
- CONTRACTOR SHALL PROVIDE ALL NECESSARY AND SHALL VERIFY ALL CONDITIONS IN THE FIE DISCREPANCIES TO THE ENGINEER PRIOR TO PE IN THE AFFECTED AREAS.

RIAN DOTSON LIC NO. C 67063 EXP. 6/30/21. RESPONSIBLE ONLY FOR THE PORTIONS OF THE STRUCTURE COVERED BY THE ATTACHED CALCULATION

STRUCTURAL MATERIALS SPECIFICATIONS PLYWOOD SHEATHING NOTES: GLUE LAMINATED TIMBER: MATERIALS, MANUFACTURE AND QUALITY CONTROL SHALL CONFORM TO ALL WOOD PRODUCT PANELS (PLYWOOD, COMPOSITE UNLESS OTHERWISE NOTED HEREIN, STRUCTURAL MATERIALS WAFERBOARD, ORIENTED STRAND BOARD, STRUCTURAL U.S. PRODUCT STANDARD PS 56. PARTICLEBOARD) SHALL COMPLY WITH U.S. PRODUCT . THE GLUED LAMINATED TIMBER MEMBERS SHALL BE WESTERN SPECIES STANDARD PS I OR SHALL COMPLY WITH THE AMERICAN AND PROVIDE STRESS VALUES THAT MEET OR EXCEED THE REQUIREMENTS PLYWOOD ASSOCIATION PANEL DESIGN SPECIFICATION (PDS) FOR COMBINATION 24F-V4 FOR SIMPLE SPAN MEMBERS AND 24F-V8 FOR PANELS WHICH MAY HAVE ANY EDGE OR SURFACE PERMANENT OTHER MEMBERS. EXPOSED TO THE WEATHER OR TO THE MOISTURE SHALL BE <u>VERIFICATION</u> - IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS, CLASSIFIED AS EXTERIOR. THE SPACING IN INCHES OF ROOF 3. MOISTURE CONTENT SHALL NOT EXCEED 16% . AND FLOOR SUPPORTS OVER WHICH PANELS ARE APPLIED ELEVATIONS, AND CONDITIONS OF THE SITE AS WELL AS SHALL NOT EXCEED THE SPAN RATING STAMPED ON THE PANEL THE PROVISIONS OF THE ENTIRE SET OF CONSTRUCTION PANEL THICKNESS SHALL BE AS SHOWN ON THE DRAWINGS. 4. ADHESIVES SHALL MEET THE REQUIREMENTS FOR THE WET CONDITION OF DOCUMENTS PRIOR TO COMENCING CONSTRUCTION. IN THE PANELS SHALL BE IDENTIFIED WITH THE APPROPRIATE GRADE SERVICE. EVENT OF A DISCREPANCY/OMISSION, ALL CONSTRUCTION MARK OF THE AMERICAN PLYWOOD ASSOCIATION AS FOLLOWS SHALL CEASE AND THE ARCHITECT, ENGINEER AND OWNER 5. A CERTIFICATE OF INSPECTION INDICATING CONFORMITY TO U.S. PRODUCT SHALL BE NOTIFIED. A. PLYWOOD ROOF SHEATHING SHALL BE APA RATED STANDARD PS 56 SHALL BE PROVIDED FOR EACH GLUED LAMINATED MEMBER THE CERTIFICATE SHALL BE ISSUED BY THE AMERICAN INSTITUTE OF SHEATHING EXPOSURE I. 2. <u>NOTES AND DETAILS</u> - ALL SHALL APPLY UNLESS SPECIFICALLYNOTED OR SHOWN OTHERWISE, DETAILS ARE MBER CONSTRUCTION ICBO NER-QA220. A COPY OF THE CERTIFICATE SHALL BE PROVIDED TO THE BUILDING OFFICIAL PRIOR TO ERECTION OF THE FRAMING B. PLYWOOD WALL SHEATHING SHALL BE APA RATED SHOWN IN DIAGRAMTIC FORM AND ARE NOT TO BE SCALED AND TO THE ENGINEER. SHEATHING EXPOSURE I. CONSTRUCTION DETAILS NOT SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS WHICH APPLY TO SIMILAR STRUCTURAL C. PLYWOOD FLOOR SHEATHING SHALL BE APA RATED SITUATIONS. ANY CONFUSION PERTAINING TO A DETAIL OR SHEATHING EXPOSURE I, OR APA RATED STURD-I-NOTE IN THE STRUCTURAL DOCUMENTS SHALL BE SOLVED FLOOR EXPOSURE I. BY ADHERING TO THE STRICTER REQUIREMENT. 3. COMPLIANCE - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA BUILDING CODE. ALL WORK SHALL ALSO COMPLY WITH APPLICABLE FEDRAL LAWS, STATE REINFORCED CONCRETE NOTES: STATUTES, LOCAL ORDINANCES AND THE REGULATIONS OF CEMENT SHALL CONFORM TO ASTM CI50 TYPE II OR V. WATER AGENCIES HAVING JURISDICTION. THE CONTRACTOR SHALL HALL BE CLEAN, FRESH, FREE FROM DETRIMENTAL QUANTITIES ASSUME FULL RESPONSIBILITY FOR COMPLYING WITH THE OF ACIDS, ALKALIS, AND ORGANIC MATERIALS. CONSTRUCTION SAFETY ORDERS OF THE STATE DIVISION OF INDUSTRIAL SAFETY, THE REGULATIONS OF THE FEDERAL AND AGGREGATIONS FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33, MAXIMUM SIZE OF AGGREGATE SHALL STATE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND ANY OTHER SUCH AGENCIES GOVERNING THE CONTRACTOR ACTS THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR AND HOLD HARMLESS THE ENGINEER, FOR ANY DAMAGES AND/O AGGREGATES FOR LIGHTWEIGHT CONCRETE SHALL CONFORM PENALTIES RESULTING FROM HIS FAILURE TO COMPLY WITH THE TO ASTM C330. LAWS, STATUTES, ORDINANCES AND REGULATIONS SPECIFIED READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ABOVE. ACCORDANCE WITH ASTM C94. <u>EXCAVATION, SHORING AND BRACING</u> - IT SHALL BE THE CONTRACTORS SOLE RESPONSABLITLY TO DESIGN AND PROVIDE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT ADEQUATE SHORING BRACING TEMPORARY SUPPORTS FORM 28 DAYS OF 2,500 PSI, UNLESS OTHERWISE NOTED. WORKS, ETC., IN ORDER TO PROTECT LIFE AND PROPERTY, TO ADMIXTURES SHALL COMPLY WITH ASTM A94 AND BE OF A SUPPORT ANY CONSTRUCTION LOADS AND TO MAINTAIN ANY TYPE THAT INCREASES THE WORKABLITY OF THE CONCRETE BUT BUILDING COMPONENTS SAFELY IN PLACE PRIOR TO THEIR SHALL NOT BE CONSIDERED TO REDUSE THE SPECIFIED MINIMUM CEMENT CONTENT. CALCIUM CHLORIDE SHALL NOT BE USED. FINAL ASSEMBLY AND ANCHORAGE INTO THE COMPLETED STRUCTURE. THERE SHALL BE A MINIMUM OF 5-1/2 SACKS OF CEMENT PER <u>PREVENTION OF UTILITES DAMAGE</u> - IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO LOCATE AND PROTECT CUBIC YARD OF CONCRETE (FOR F'C = 2,500). ALL EXISTING UTILITY LINES AND CONNECTIONS BEFORE AND CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE FOR DURING HIS WORK. BUILDINGS", EXCEPT AS MODIFIED ON THE STRUCTURAL <u>STRUCTURAL OPENINGS</u> - THE ARCHITECHTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND ANY OTHER RELEVANT DRAWING DOCUMENTS. SHALL BE REFERED TO IN ORDER TO DETERMINE THE LOCATION REFER TO THE ARCHITECTURAL DRAWINGS FOR MOLDS, AND SIZE OF OPENINGS FOR ALL PIPES, DUCTS, SLEEVES, GROOVES, ORNAMENTS, CLIPS, OR OTHER REQUIRED ELEMENTS CHASES, AND OTHER OPENINGS, NO PIPES, DUCTS, SLEEVES, TO BE CAST IN CONCRETE. STRUCTURAL ABBREVIATIONS CHASES, ETC. SHALL BE PLACED IN SLABS, FOOTINGS, BEAMS . NO CONDUIT PLACED IN A CONCRETE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE OR WALLS UNLESS SPECIFICALLY SHOWN NOR SHALL ANY HE FOLLOWING LIST APPLIES ONLY TO STRUCTURAL DRAWINGS STRUCTUAL MEMBER BE CUT UNLESS OTHERWISE NOTED. THE SLAB. NO CONDUIT SHALL BE EMBEDDED IN A SLAB THAT IS CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR LESS THAN 3-1/2". MINIMUM CLEAR DISTANCE BETWEEN CONDUIT INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, SLEEVES, ALTERNATE HANGER SHALL NOT BE LESS THAN 6". CHASES, ETC. ANCHOR BOLT HEIGHT PLACE CONCRETE IN COMPLIANCE WITH ACI 304. ALL CONCRETE BLK(G) BLOCK(ING) INCH JOB SITE MAINTENACE - MAINTENANCE OF THE JOB SITE SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY DURING THE SHALL BE MECHANICALLY VIBRATED AND SHALL BE THOROUGHLY WORKED AROUND REINFORCMENT, EMBEDDED KING POST BM BOF BOTTOM OF FOOTING KS KING STUD COARSE OF CONSTRUCTION. THIS SHALL INCLUDE THE SAFETY FIXTURES AND INTO THE CORNERS OF FORMS. BOT BOTTOM ANGLE, STEEL OF ALL PERSONEL AND PROPERTY ON SITE. CHANNEL, STEEL LAMINATED STRAND LUMBER LSL CONCRETE IN CONTACT WITH FORMS SHALL BE CURED BY ONE CANT CANTILEVERED LAMINATED VENEER LUMBER LVL MAX OF THE FOLLOWING METHODS TO PREVNET PREMATURE DRYING OF CONCRETE FOR AT LEAST 1 DAYS: CENTER LINE MAXIMUM OWNER AND ENGINEER FREE OF ANY LIABLITY, REAL OR MINIMUM CEILING ALLEGED. IN CONNECTION WITH HIS PERFORMANCE OF WORK A. APPLICATION OF ABSORPTIVE MATS OR FABRIC KEPT CONT CONTINUOUS MICROLLAM BY TRUSS JOIST MLM ON THIS PROJECT. EXCEPT FROM LIABITITY ARISING FROM THE CONTINUOUSLY WET. CEILING JOIST MB MACHINE BOLT SOLE NEGLIGANCE OF THE OWNER OR ENGINEER. THE PENNY, NAIL NOT TO SCALE NTS B. APPLICATION OF WATERPROOF SHEET METERIALS CONTRACTOR SHALL NOT USE ANY ALTERNATIVE METHODS OF DOUBLE ON CENTER CONFORMING TO ASTM CITI. CONSTRUCTION OR ANY SUBSTITUTIONS WITHOUT PRIOR DOUGLAS FIR STEEL PIPE COLUMN APPROVAL OF THE ENGINEER. C. APPLICATION OF A CURING COMPOUND CONFORMING TO PARALLAM BY TRUSS JOIST DIAMETER 309. THE COMPOUND SHALL NOT BE USED ON ANY ROOF RAFTER SITE WORK AND FOUNDATION: SURFACE AGAINST WHICH ADDITIONAL CONCRETE DECK JOIST S.A.D OR OTHER MATERIAL IS TO BE BONDED. EQUAL SQUARE I. SOILS REPORT BY: EACH END STANDARD FACH FACE тнк THICK BIGMA PRIME GEOSCIENCES, INC. EACH SIDE TUBE STEEL TS 332 PRINCETON AVENUE REINFORCING STEEL NOTES: UNLESS NOTED OTHERWISE EACH WAY HALF MOON BAY, CA 94019 FACE OF STUD V.I.F. VERIEY IN FIELD WIDE FLANGE BEAM, STEEL STEEL BARS SHALL CONFORM TO ASTM A615 AND BE GRADE 60 EXCEPT THAT NO. 3 AND NO. 4 BARS USED AS TIES OR STIRRUPS MAY BE GRADE 40. STEEL BARS SHALL NOT BE REFER TO THE SOILS REPORT FOR ALL REQUIREMENTS. FOOTING WITH FLOOR JOIST WO WITHOUT . ALL EXCAVATIONS FOR FOOTINGS SHALL HAVE FIRM LEVEL GAUGE BOTTOMS IN UNDISTURBED NATURAL SOIL OR APPROVED GLB GLUE LAMINATED BEAM / COMPACTED FILL. EXCAVATIONS SHALL BE KEPT FREE OF TIRE WIRE SHALL BE 16 GAUGE, BLACK ANNEALED AND STANDING WATER. WHERE EXCAVATIONS HAVE BEEN MADE TO CONFORM TO ASTM A28. A DEPTH GREATER THAN INDICATED SUCH ADDITIONAL DEPTH SHALL BE FILLED WITH CONCRETE AS SPECIFIED FOR THE WIRE FABRIC SHALL CONFORM TO ASTM AI85. NAILING SCHEDULE OTINGS. FILL MATERIALS SHALL BE FREE FROM DEBRIS, REINFORCING DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL VEGETABLE MATTER, AND OTHER FOREIGN SUBSTANCES. (USE COMMON NAILS - $8d = 0.131^{\circ}\phi$ IOd = $0.148^{\circ}\phi$ I6d = $0.162^{\circ}\phi$) INSTITUTE'S "MANUAL OF STANDARD PRACTICE", LATEST <u>CONNECTION</u> <u>NAILING</u> COLUMN FOOTINGS OR UNDER CONTINUOUS WALL FOOTINGS 3-8d UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE JOISTS TO SILL OR GIRDER, TOENAIL REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING DIMENSIONS OF COVER FOR CAST-IN-PLACE CONCRETE: ENGINEER AND THE BUILDING OFFICIAL. SOLE PLATE TO JOIST OR 4. THE FINISH EXCAVATIONS FOR FOUNDATIONS SHALL BE NEAT BLOCKING TYPICAL FACE NAIL AND TRUE TO LINE WITH ALL LOOSE MATERIAL REMOVED. B. FORMED CONCRETE EXPOSED TO EARTH SOLE PLATE TO JOISTS OR BLOCKING OR WEATHER; AT BRACED WALL PANELS #6 THROUGH # 18 BARS .. OFFICIAL THAT THE BUILDING PAD WAS PREPARED IN #5 BARS AND SMALLER I-I/2 TOP PLATE TO STUD, END NAIL 2-16d ACCORDANCE WITH THE SOILS REPORT, THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED, AND THAT THE FOUNDATION C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER; STUD TO SOLE PLATE EXCAVATIONS COMPLY WITH THE SOILS REPORT AND THE SLABS, WALLS, JOISTS: APPROVED PLANS. #14 AND # 18 BARS . DOUBLE STUDS, FACE NAIL #II BARS AND SMALLER I-I/2" 16d @ 8" O.C DOUBLED TOP PLATES, TYPICAL FACE NAIL 16d @ 8" O.C. OBSERVATION OF THE SOILS ENGINEER. BEAMS, COLUMNS: DOUBLE TOP PLATES, LAP SPLICE PRIMARY REINFORCEMENT 1-1/2" TOP PLATES, LAPS AND INTERSECTIONS 2-16d TIMBER NOTES: STIRRUPS, TIES, SPIRALS 1-1/2" ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND INSER BLOCKING BETWEEN JOISTS OR RAFTERS 3-8d I. ALL SOLID FRAMING LUMBER SHALL BE DOUGLAS FIR LARCH SHALL BE POSITIVELY SECURED IN POSITION PRIOR TO PLACING OF CONCRETE OR GROUT. VERTICAL BARS IN MASONRY WALLS TO TOP PLATE, TOENAIL (U.O.N.), GRADE MARKED AND CONFORM TO THE STANDARD RADING AND DRESSING RULES OF THE WEST COAST LUMBER SHALL BE POSITIONED AS DETAILED AND SHALL BE TIED IN RIM JOIST TO TOP PLATE, TOENAIL 8d @ 6" O.C. INSPECTION BUREAU. WOOD GRADES SHALL BE AS FOLLOWS: POSITION AT TOP AND BOTTOM AND AT INTERVALS OF NOT LES CEILING JOISTS TO PLATE, TOENAIL 3-8d THAN 192 BAR DIAMETERS. ALL REINFORCING BAR BENDS SHALL . JOISTS AND RAFTERS . GRADE #2 BE MADE COLD. 3. PURLING AND SUBPURLING GRADE # CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL 3-16d LAP SPLICES OF REINFORCING BARS IN CONCRETE SHALL BE CLASS B TENSION SPLICES AS DEFINED IN ACI 318 LATEST EDITION UNLESS OTHERWISE NOTED. LAP SPLICES OF REINFORCING BARS IN MASONRY SHALL BE 40 BAR BEAMS AND HEADERS . . GRADE I EDGERS GRADE # CEILING JOISTS TO PARALLEL RAFTERS, 3-16d FACE NAIL PLATES . GRADE # STUD GRADE 2X4 STUDS TO 8'0" LONG 3-8d RAFTER TO PLATE, TOENAIL G. 2X4 STUDS 8'-I" TO 14'-O" LONG GRADE # 2 DIAMETERS, OR 18" MINIMUM. OTHER STUDS GRADE # 2 BUILT-UP CORNER STUDS . POSTS . .GRADE #1 DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE, AND SPACING AS THAT OF THE WALL REINFORCING 2" PLANKS UNLESS OTHERWISE NOTED. . UNTREATED LUMBER SHALL BE DRY AND WELL SEASONED, AND THE MOISTURE CONTENT SHALL NOT EXCEED 19%. ALI LUMBER SHALL BE AIR SEASONED NOT LESS THAN 30 DAYS BEFORE BEING COVERED WITH FINISHED MATERIALS. STORE SHEAR WALL SCHEDULE (2018 INTERNATIONAL BUILDING CODE, 2019 CALIFORNIA BUILDING CODE) ALL LUMBER OFF GROUND, CONSIDERABLY VENTILATED, AND COVERED 3. ALL NAILS SHOWN ON THE DRAWINGS SHALL BE COMMON WIRE NAILS, AND CONFORM TO TABLE 2304.9.1 OF C.B.C., UNLESS OTHERWISE NOTED. NOTED MACHINE BOLTS SHALL CONFORM TO ASTM A307. 4. MANUFACTURED HARDWARE SHALL BE ICC APPROVED. DESIGN IS BASED ON SIMPSON COMPANY, SEE APPLICABLE ICC-ESR REPORTS. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER OR IN GROUND CONTACT, PROVIDE FASTENERS AND ANCHORAGES WITH A HOT-DIP ZINC COATING. UNLESS

NOTES:

- ALL NAILS SHALL BE COMMON NAILS. - PANELS MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY.
- ALL PANEL EDGES MUST BE BLOCKED WITH 2X OR WIDER MEMBERS, EXCEPT AS NOTED BELOW. - WHERE SHEAR VALUES EXCEED 350 plf ON ONE FACE OF A WALL, FOUNDATION SILL PLATES AND ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER, AND NAILS SHALL BE STAGGERED. WHEN SHEAR LOAD DOES NOT EXCEED 600 plf, A 2X SILL PLATE MAY BE USED WITH ANCHOR BOLT SPACING AS SHOWN ABOVE.
- SHALL BE STAGGERED. OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING SHALL BE 3-INCH NOMINAL OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED ANCHOR BOLTS SHALL BE 5/8" DIAMETER . - BOLTS AND EMBEDDED AT LEAST 7" INTO CONCRETE OR MASONRY AND SHALL BE
- RIM JOIST UNDER THE WALL.

SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS.

<u>GENERAL REQUIREMENTS:</u>

- 8. INTEGRITY THE CONTRACTOR SHALL AGREE TO HOLD THE

- 3. NO PIPES AND CONDUITS SHALL EXTEND UNDER ISOLATED
- 5. SOILS ENGINEER SHALL VERIFY IN WRITING TO THE BUILDING
- 6. ALL SOILS SITE WORK SHALL BE DONE UNDER THE DIRECT

- OTHERWISE NOTED, INSTALLATION SHALL COMPLY WITH THE MANUFACTURERS RECOMMENDATIONS. ALL BOLT HEADS AND NUTS BEARING ON WOOD SHALL HAVE STANDARD CUT WASHERS. ALL BOLT HOLES IN WOOD SHALL BE DRILLED 1/32"DIAMETER LARGER THAN THE BOLT DIAMETER.
- 5. ALL FRAMING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 23 OF THE INTERNATIONAL BUILDING CODE, UNLESS OTHERWISE NOTED, INSTAL JOISTS AND BEAMS WITH THE CROWN EDGE UP. PROVIDE ALL NECESSARY BRIDGING, BLOCKING , AND FIRE BLOCKINGS.
- 6. CUTTING, NOTCHING OR DRILLING OF STUDS OR SAWN JOISTS IS TO BE PERMITTED ONLY AS DETAILED BY THE
- FNGINEER 7. ALL WOOD RESTING ON CONCRETE OR MASONRY SHALL BE
- PRESSURE TREATED. 8. PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL NON BEARING WALLS. PROVIDE STEEL STRAPS AT PIPES AS
- REQUIRED BY CHAPTER 23 OF THE I.B.C. 9. ALL FASTENERS ATTACHED TO P.T. WOOD SHALL BE HOT-
- DIPPED GALVANIZED OR OTHER CORROSION RESISTANT MATERIAL
- IO. ALL HANGERS AND CONNECTION HARDWARE SHALL BE MANUFACTURED BY THE SIMPSON COMPANY U.N.O. THE LONGEST POSSIBLE HANGER OR CONNECTION HARDWARE FOR JOIST OR BEAM DEPTH SHALL BE USED. INSTALLATION SHALL BE PER MANUFACTURERS SPECIFICATION U.N.O.

| TYPE | MATERIAL | SHEAR (plf) | EDGE NAILING | FIELD NAILING | SOLE PLATE NAILING | ANCHOR BOLTS (2X SILL PLATE) | ANC I (3x s |
|---------|--------------|----------------|-----------------|------------------|--|---------------------------------|---------------------------|
| \land | 1/2" PLYWOOD | 310 | IOd NAILS @ 6" | IOd NAILS @ 12" | 16d NAILS @ 4" o.c. | 5/8"¢ X I2" @ 32" | 5/8"4 |
| 2 | 1/2" PLYWOOD | 460 | IOd NAILS @ 4" | IOd NAILS @ 12" | 16d NAILS @ 3" o.c. | 5/8"¢ X I2" @ I2" | 5/8"4 |
| 3 | 1/2" PLYWOOD | 600 | IOd NAILS @ 3" | IOd NAILS @ 12" | I4 GA. X 6" SCREWS @ 4" STAGGERED | DO NOT USE 2X PLATE | 5/8"0 |
| 4 | 1/2" PLYWOOD | 017 | IOd NAILS @ 2" | IOd NAILS @ 12" | 14 GA. X 6" SCREWS @ 4" STAGGERED | DO NOT USE 2X PLATE | 5/8" |
| 5 | 5/8" PLYWOOD | 870 | IOd NAILS @ 2" | IOd NAILS @ 12" | 14 GA. X 6" SCREWS @ 3-1/2" STAGGERED | DO NOT USE 2X PLATE | 5/8"0 |

| FOR SHEA | AR WALLS | ID HIGHER, PR | OVIDE A 3 | X MEMBER | R AT ALL ADJO | DINING P |
|----------|----------|---------------|-------------|----------|---------------|----------|
| | | | 9 J-1/2 J1/ | | | |

- WHERE PANELS ARE APPLIED ON BOTH FACES OF WALL, AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS
- SPACED NO MORE THAN 48" APART. THERE SHALL BE A MINIMUM OF 2 BOLTS PER PIECE WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES OR LESS THAN 5" FROM END OF EACH PIECE. ALL BOLTS MUST HAVE A 3" X 3" X 1/4" THICK PLATE WASHER. SHEAR WALL TYPES 3, 4, AND 5 OR WHEN PANELS ARE APPLIED ON BOTH FACES OF A WALL, MUST HAVE DOUBLE BLOCKING OR
- SEE DRAWINGS FOR SHEAR TRANSFER DETAILS.

2-16d @ EA. BEARING

💳 ΒΡΙΔΝΙ ΠΟΤΩΩΝΗ Η Γ. ΝΟ. Ο 67063 ΕΥΔ. 6/30/21. REQUANCIRI Ε ΑΝΙ Υ ΕΩΡ ΤΗΕ ΔΩΡΤΙΛΝΟ ΔΕ ΤΗΕ ΩΤΡΙ ΙΩΤΗΡΕ ΛΑΛ/ΕΡΕΠ RV ΤΗΕ ΔΤΤΔΩΗΕΠ ΔΔΙ Ω Η ΔΤΙΛΝΟ 🔳