VICINITY MAP

THE SITE





GENERAL NOTES

GENERAL NOTES

NPDES NOTES

- NOTES MUST BE SHOWN AS WORDED, ON THE TITLE SHEET OF THE PLAN. 1. IN THE CASE OF EMERGENCY, CALL:
- AT WORK PHONE #:
- OR CELL PHONE #: SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE
- USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT
- PROPERTIES VIA RUNOFF, VEHICLE TACKING, OR WIND. APPROPRIATE BMPS FOR CONSTRUCTION RELATED MATERIALS, WASTES, SPILLS SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS,
- DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITE UNLESS TREATED TO REDUCE OR REMOVE SEDIMENT AND
- OTHER POLLUTANTS. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OR THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED
- CONSTRUCTION STAGING AREAS. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.
- . CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORM WATER ONLY WHEN NECESSARY FOR 7. SEE EXISTING AND / OR OTHER PLANS FOR SIZE AND LOCATION OF PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.
- . POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS: FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPER CHLORINATED POTABLE WATER LINE FLUSHING. DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
- 10. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD. 11. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE
- FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES. 12. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE
- NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
- 13. THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS. 14. THE PERMITTEE SHALL NOTIFY ALL GENERAL CONTRACTORS, SUBCONTRACTORS, MATERIAL SUPPLIERS, LESSEES, AND PROPERTY OWNERS: THAT DUMPING OF
- CHEMICALS INTO THE STORM DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED. 15. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- 16. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5 DAY RAIN PROBABILITY FORECAST EXCEEDS 40%. 7. SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE
- USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE, AND STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
- 18. APPROPRIATE BMPS FOR CONSTRUCTION RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.

CALIFORNIA RESIDENTIAL CODE NOTES

- EXTERIOR DOORS MUST OPEN OVER A LANDING NOT MORE THAN 1/2" BELOW THE THRESHOLD. EXCEPTION: PROVIDING THE DOOR DOES NOT SWING OVER THE LANDING THE LANDING SHALL NOT BE MORE THAN 8" BELOW THE
- THRESHOLD. . LANDINGS AT DOORS SHALL HAVE A LENGTH MEASURED IN DIRECTION OF TRAVEL
- OF NOT LESS THAN 36 INCHES. TYP. CRC R311.3 STORAGE/CLOSET UNDER STAIR, PROVIDE ONE LAYER OF 5/8 TYPE "X" GYP. BD. AT
- WALL AND UNDERSIDE OF STAIR TO ACHIEVE 1HR OF FIRE PROTECTION
- GARAGE, PROVIDE 1 LAYER OF 5/8 TYPE "X" GYP. BD. AT GARAGE WALLS, CEILINGS, AND SUPPORTING STRUCTURAL MEMBERS SEPARATING THE GARAGE AND LIVING AREAS TO ACHIEVE 1HR OF FIRE PROTECTION

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO STARTING WORK, AND SHALL NOTIFY THE DESIGNER OF DISCREPANCIES OR INCONSISTENCIES.
- THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT REPRESENT THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, CONSTRUCTION LOADS OF MATERIALS, ETC. THE CONTRACTOR, AT NO EXPENSE TO THE OWNER, SHALL RETAIN QUALIFIED PROFESSIONALS TO DETERMINE FIELD LAYOUT OF THE BUILDING ELEMENTS, AND THE ADEQUACY OF ALL PROPOSED BRACING AND
- SHORING. 3. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE OBSERVATION OF SAFETY METHODS, BRACING OR SUPPORT.
- 4. PLAN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. 5. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE
- OVER GENERAL NOTES AND STANDARD DETAILS. 6. CLARIFICATION SHALL BE REQUESTED FROM THE ENGINEER FOR
- ALL WORK INDICATED ON THE PLANS THAT IS NOT SPECIFICALLY DETAILED, AND IS NOT SIMILAR TO WORK THAT IS DETAILED. ALL DOOR AND WINDOW OPENINGS, SIZE AND LOCATION OF ALL NON-BEARING PARTITIONS, SIZE AND LOCATION OF ALL CURBS, DRAINS, DEPRESSED AREAS, SLOPES AND ELEVATION CHANGES, CHAMFERS, GROOVES, INSERTS, ALL FINISHES, AND SIZE AND
- LOCATION OF ALL FLOOR AND ROOF OPENINGS. 8. SEE OTHER PLANS FOR ALL WATERPROOFING REQUIREMENTS. THE ENGINEER IS NOT RESPONSIBLE FOR WATERPROOFING DETAILS
- AND SPECIFICATIONS. 9. MECHANICAL, PLUMBING, AND ELECTRICAL REPAIRS SHALL BE UNDER SEPARATE PERMIT AND SHALL BE PERFORMED BY A
- LICENSED CONTRACTOR LICENSED IN THE APPROPRIATE FIELD. 10. MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS. LOADS SHALL NOT EXCEED DESIGN LOADING FOR SUPPORTING MEMBERS.
- 11. UNLESS APPROVED BY THE LOCAL C.B.O. OR BUILDING DEPARTMENT (PER CPC SECTION 301.2.5.) PEX IS NOT AN APPROVED BUILDING MATERIAL.

MISCELLANEOUS NOTES

- 1. ALL PLUMBING FIXTURES SHALL MEET LOCAL, STATE AND/OR FEDERAL CURRENT REGULATIONS.
- 2. WHEN TANK WATER HEATERS IS USED, IT SHALL BE STRAPPED PER (CPC 510.5) OR HAVE A RIGID CONNECTION TO AN ADJACENT WALL.
- (SEC 507.3, UPC) 3. ALL INSULATION MATERIALS SHALL BE CERTIFIED BY THE
- MANUFACTURER AS COMPLYING WITH THE REQUIRED QUALITY STANDARDS FOR INSULATION MATERIAL.
- 4. AS REQUIRED BY AGENCY, PROVIDE AN APPROVED SPARK ARRESTOR FOR STOVE DOWNDRAFT VENT. AS REQUIRED BY AGENCY, AN APPROVED SEISMIC SHUTOFF VALVE
- SHALL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWNSTREAM SIDE OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL
- GAS PIPING. 6. FOR TYPICAL MOUNTING HEIGHTS OF DOOR HARDWARE, ELECTRICAL DEVICES AND MECHANICAL CONTROLS SEE DETAIL.
- PROVIDE R-12 EXTERIOR BLANKET INSULATION FOR HOT WATER HEATER. R-3 INSULATION SHALL BE PROVIDED FOR THE FIRST FIVE FEET OF THE WATER HEATER OUTLET PIPE. ALL WATER HEATING AND SPACE CONDITIONING EQUIPMENT, SHOWER HEADS, AND FAUCETS SHALL BE C.E.C. CERTIFIED. ALL STEAM AND STEAM CONDENSATE RETURN PIPING AND ALL CONTINUOUSLY RE-CIRCULATING DOMESTIC HEATING OR HOT WATER PIPING SHALL BE INSULATED PER PLUMBING DIVISION.
- 8. REFER TO TITLE 24 REPORT FOR INSULATION VALUES. 9. GRIPS ON RAILS SHALL HAVE A 1 1/4" MINIMUM AND 2" MAXIMUM
- DIAMETER OR OFFER EQUIVALENT GRIPPING SURFACE

APPLICABLE STANDARDS

- 2019 CALIFORNIA RESIDENTIAL CODE (CRC)
- 2019 CALIFORNIA BUILDING CODE (CBC)
- 2019 CALIFORNIA PLUMBING CODE (CPC) 2019 CALIFORNIA ELECTRICAL CODE (CEC)
- 2019 CALIFORNIA MECHANICAL CODE (CMC)
- 2019 CALIFORNIA GREEN BUILDING
- 2019 CALIFORNIA ENERGY CODE.

0 MCALLISTER, RIVERSIDE, CA

AREA PLAN (INCLUDING WALLS)

	PROJECT DI	RECTORY	PREPARED BY:
ŝ	 OWNER NAME: EMAIL: CONTACT NO: DESIGNER NAME: CONTACT NO: EMAIL: OCONTRACTOR NAME: ADDRESS: CONTACT NO: EMAIL STRUCTURAL NAME: CONTACT NO: EMAIL 	Dale Spindler & Trish Berg-Spindler EVERETT SMITH DESIGNS (951) 323 2187 EVERETT@EVERETTSMITHDESIGNS.COM	<image/> <section-header><section-header><section-header><text><text><text></text></text></text></section-header></section-header></section-header>
			in part, for any other project without the written authorization of Everett Smith/ ESDESIGNS. All Rights Reserved PR0.JECT:
	PROJECT INF	ORMATION	
	NEW RESIDENCE:SEE SQFT BELOWA.		
	 OCCUPANCY: CONSTRUCT TYPE: YEAR BUILT: BLDG/LIV AREA: COVERED PATIO / CALIFORNIA ROOM: GARAGE AREA: STORIES: BEDROOMS: BATHROOMS: PARK TYPE: OTHER INFO A/C: HEATING: FIREPLACE: SPRINKLERS: B. SITE INFO ADDRESS: PARCEL # (APN): LEGAL DESCRIPTION: LOT AREA: ZONE: DEFERRED SUBMITTALS TO BE SUBMITTED FIRE SPRINKLERS SOLAR TRUSS ROOF A. SCOPE OF WORK NEW ONE STORY RESIDENCE TO BE ADDED TANKLESS WATER HEATER, AC, FAU IN ATTICAL 	R-3 / U V-B - - - - - - - - - - - - - - - - - -	PROPOSED (1) STORY RESIDENCI
	<u>SQUARE FOUTAGE</u>	COVERAGE, LOT OR SITE: THE PERCENTAGE OF A SITE COVERED BY SOLID OR OPEN FRAME ROOFS, SOFFITS, OR OVERHANGS AND BY DECKS MORE THAN 30 INCHES IN HEIGHT.	REVISIONS:
	STRUCTURAL DESIGN AND DETAILS FULLY CONFOR THE CALIFORNIA RESIDENTIAL CODE. SHOULD A PO CONFORM TO THE REQUIREMENTS OF THE CBC, AS CONFORMS WITH CBC	RM TO ALL OF THE REQUIREMENTS OF THIS CODE, ORTION OR ALL OF THE STRUCTURAL DESIGN S ALLOWED IN THE CRC. THE STRUCTURAL DESIGN	PROJECT ADDRESS: 0 McAllister Riverside, Ca
	SHEET INDEXA0COVER SHEETA0.1GENERAL NOTESA0.2GENERAL NOTESA1SITE PLANA1.1SITE PLAN - UTILITY PLANA2PROPOSED FLOOR PLANA3ROOF PLAN	SHEET INDEXGNGENERAL NOTESS1FOUNDATION PLANS2FRAMING PLANSD1DETAILSSD2DETAILSSD3DETAILS	CLIENT NAME: DALE & TRISH
	A3.1ROOF NOTESA4PROPOSED ELEVATIONSA4.1PROPOSED ELEVATIONA4.4COLORED ELEVATIONSA4.6COLORED ELEVATIONSA4.73D VIEWSA5SECTIONSA6ELECTRICAL PLANA6.1ELECTRICAL PLANA7DOOR AND WINDOW SCHEDULEAD.1Architectural DetailsAD.2STONE INFOAD.3Wall DetailsAD.31Door DetailsAT24-1TITLE-24AT24-2Mandatory Measures		Project number 21-2083 Date 14/06/2021 9:59:56 PM Drawn by RM Checked by ES AO Scale

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (INCLUDING JANUARY 1, 2017 ERRATA)



INSPECTOR SIGNOFF

4.304 OUTDOOR WATER USE 4.304.1 IRRIGATION CONTROLLERS Automatic irrigation system controllers for landscaping provided by the

builder and installed at the time of final inspection shall comply with the following: 1. Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in

- response to changes in plants' needs as weather conditions change.
- 2. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.

INSPECTOR

SIGNOFF

hundredths of a gram (g O/g ROC).

ozone formation in the troposphere.

4.504 POLLUTANT CONTROL

4.504.2.1 Adhesives, Sealants and Caulks.

management district rules apply:

Table 4.504.3 shall apply.

Regulations

8. Rule 49.

4.503 FIREPLACES

product (excluding container and packaging).

and 94701.

VOC.

MOISTURE CONTENT.

Note: More information regarding irrigation controller function and specifications is available from the Irrigation Association.

DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

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 agency.

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

- I. Excavated soil and land-clearing debris.
- 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite
- 3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsite are located in areas beyond the haul boundaries of the diversion facility.
- 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.
 - . Identify the construction and demolition waste materials to be diverted from disposal by recycling,
 - reuse on the project or salvage for future use or sale.
- 2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).
- 3. Identify diversion facilities where the construction and demolition waste material collected will be
- 4. Identify construction methods employed to reduce the amount of construction and demolition waste
- denerated 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.
- 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.

Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.

- 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 Ibs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1
- 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined veight of construction and demolition waste disposed of in landfills, which do not exceed 2 lbs./sq.ft. of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1
- 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:
- 1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in
- documenting compliance with this section. 2. Mixed construction and demolition debris (C & D) processors can be located at the California
- Department of Resources Recycling and Recovery (CalRecycle).

4.410 BUILDING MAINTENANCE AND OPERATION 4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact

disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:

- 1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.
- 2. Operation and maintenance instructions for the following: a. Equipment and appliances, including water-saving devices and systems, HVAC systems,
 - photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment. b. Roof and yard drainage, including gutters and downspouts.
 - c. Space conditioning systems, including condensers and air filters.
- d. Landscape irrigation systems. e. Water reuse systems
- 3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.
- . Public transportation and/or carpool options available in the area.
- 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
- 6. Information about water-conserving landscape and irrigation design and controllers which conserve
- 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
- 8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
- 9. Information about state solar energy and incentive programs available.
- 10. A copy of all special inspections verifications required by the enforcing agency or this alignment Green Building Standards code.

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 is identified for the depositing, storage and collection of non-hazaradous 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.

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 PRODUCTSComposite 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.

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.

1. The minimum length of each EV space shall be 18 feet (5486 mm).

- One in every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).
- a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.
- 4.106.4.2.3 Single EV space required. Install a listed raceway capable of accommodating a 208/240volt dedicated 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 enclosure in close proximity to the proposed location of the EV spaces. Construction documents shall identify the raceway termination point. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit
- 4.106.4.2.4 Multiple EV spaces required. Construction documents shall indicate the raceway termination point and proposed location of future EV spaces and EV chargers. Construction documents shall also provide information on amperage of future EVSE, raceway method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at the full rated amperage of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. Raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of
- 4.106.4.2.5 Indentification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance
 - 1. The California Department of Transportation adopts and publishes the "Californa Manual on Uniform Traffic Control Devices (California MUTCD)" to provide uniform standards and specifications for all official traffic control devices in California. Zero Emission Vehicle Signs and Pavement Markings can be found in the New Policies & Directives Number 13-01. Website: www.dot.ca.gov/trafficops/policy/13-01.pdf
 - 2. See Vehicle Code Section 22511 for EV charging space signage in off-street parking facilities and for use of EV charging spaces.
 - 3. The Governor's Office of Planning and Research (OPR) published a "Zero-Emission Vehicle Community Readiness Guidebook" which provides helpful information for local

4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS.Plumbing fixtures (water closets and

4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume

4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.

4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA

4.303.1.3.2 Multiple showerheads serving one shower . When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to only

4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall

4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential

4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver 4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons,

per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve

4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table

THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND

	FLOW RATE
	(1.8 GMP @ 80 PSI
	MAX_1/2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI
IN SE	0.5 GPM @ 60 PSI
	1.8 GPM @ 60 PSI
	0.25 GAL/CYCLE
	1.28 GAL/FLUSH
	0.125 GAL/FLUSH

C:\Users\Rowell Shih\Downloads\21-2093 Trish McAllister Residence Flat 2021.04.07.rte

Drawn by

Checked by

Scale

AC

QUALITY MANAGEMENT DISTRICT RULE 1168.

WOOD FIBERGLASS 1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR

SUBSTRATE METAL TO M PLASTIC FOA POROUS MA

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

CURRENT VOC LIMIT

50

REVISIONS: No. Description Date Revision 1 Date 1 PROJECT ADDRESS: 0 McAllister Riverside. Ca CLIENT NAME: DALE & TRISH GENERAL NOTES Project number 21-2083 Date 14/06/2021 9:59:58 PM

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PROJECT:

1 Manufacturer's product specification

ARCHITECTURAL APPLICATIONS

INDOOR CARPET ADHESIVES

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

enforcing agency. Documentation may include, but is not limited to, the following:

TABLE 4.504.1 - ADHESIVE VOC LIMIT 1,2

(Less Water and Less Exempt Compounds in Grams per Liter)

prohibitions on use of certain toxic compounds, oCalifornia Code of Regulations , Title 17, commencing with section 94507.

tricloroethylene), except for aerosol products, as specified in Subsection 2 below.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a

compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to

4.503.1 GENERAL . Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed

4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING

applicable, and shall have a permanent label indication they are certified to meet the emission limts. Woodstoves,

CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final

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

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

Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in

compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and

startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component

Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).

pellet stoves and fireplaces shall also comply with applicable local ordinances.

to reduce the amount of water, dust or debris which may enter the system.

hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.

article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of

4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of

Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in

4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR

4 504 2.4 Verification. Verification of compliance with this section shall be provided at the request of the

Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic

listed in Table 1 EO1 2	aball be determined b	v alagaifying the a	acting as a Flat	Nonflot or Nonflot	م ال

listed in Table 4 504.2 shall be determined by classifying the costing as a Elet	Nonflat or Nonflat High

compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of

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

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 2 (INCLUDING JANUARY 1, 2017 ERRATA)

INSPECTOR SIGNOFF

TABLE 4.504.2 - SEALANT VOC	LIMIT
(Less Water and Less Exempt Compounds ir	n Grams per Liter)
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

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

INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

SIGNOFF TABLE 4.504.5 - FORMALDEHYDE LIMITS MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION PRODUCT CURRENT LIMIT HARDWOOD PLYWOOD VENEER CORE 0.05 HARDWOOD PLYWOOD COMPOSITE CORE 0.05 PARTICLE BOARD 0.09 MEDIUM DENSITY FIBERBOARD 0.11 THIN MEDIUM DENSITY FIBERBOARD₂ 0.13 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM). DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the testing and product requirements of at least one of the following: 1. Carpet and Rug Institute's Green Label Plus Program. 2. 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). 3. NSF/ANSI 140 at the Gold level. 4. Scientific Certifications Systems Indoor Advantage Gold. 4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program. 4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1. 4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall comply with one or more of the following: 1. Products compliant with 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), certified as a CHPS Low-Emitting Material 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). . Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program. 4. 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. 3. 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 California Building Standards Code 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section. 4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the 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, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute. ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following: 1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code. 2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end 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' drying 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: 1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. 2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a 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) Notes: 1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination. 2. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code. 4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods: 1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods. 2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods. Exception: Use of alternate design temperatures necessary to ensure the system functions are edacceptable.

INSPECTOR SIGNOFF

CHAPTER 7

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

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

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

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

- 1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building
- performance contractors, and home energy auditors.
- Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.
- Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

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

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

703 VERIFICATIONS

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

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PROPOSED (1) STORY RESIDENCE
REVISIONS: No. Description Date
PROJECT ADDRESS: 0 McAllister Riverside, Ca
CLIENT NAME:
DALE & TRISH
GENERAL NOTES
Project number 21-2083 Date 14/06/2021 10:00:00 PM Drawn by RM Checked by ES
Scale



SITE PLAN NOTES

- 1. THE CONTRACTOR OR THE OWNER/BUILDER SHALL BE RESPONSIBLE FOR SITE SURVEY 2. ALL SURFACE WATER SHALL SLOPE AWAY FROM BUILDING
- 3. ALL FINISH GRADES AROUND THE EXTERIOR OF THE HOUSE SHALL BE SLOPED TO DRAIN SURFACE WATER AWAY FROM THE FOUNDATION
- 4. ANY ARTIFICIAL LIGTING SHALL BE DIRECTED OR SHADED SO AS NOT TO FALL INTO ADJACENT PROPERTIES

STORM WATER POLLUTION CONTROL REQUIREMENTS

THE FOLLOWING REPRESENT THE MINIMUM STANDARDS OF GOOD HOUSEKEEPING THAT MUST BE IMPLEMENTED ON ALL CONSTRUCTION SITES.

- 1. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
- 2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- 3. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- 4. NON-STORMWATER RUNOFF FROM EQUIPMENT AND VEHICLE WASHING AND ANY OTHER ACTIVITY SHALL BE CONTAINED AT THE PROJECT SITE.
- 5. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- 6. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- 7. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- 8. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- 9. CONSTRUCTION SITE SHALL BE MAINTAINED BY IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMPS) IN SUCH A MANNER THAT POLLUTANTS ARE NOT DISCHARGED FROM THE SITE TO THE MAXIMUM EXTENT PRACTICABLE. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE OR WIND.

SITE DRAINAGE



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SC-1	SILT FENCE
SC-5	FIBER ROLLS
SC-6	GRAVEL BAGS
TC-1	STABILIZED CONSTRUCTION ENTRANCE

PERMANENT BMP'S:

SS-10	ENERGY DISSIPATOR
SS-11	DRAINAGE FROM ROOF AREAS AND OTHER IMERVIOUS SURFACES SHALL DIRECTED TO A FLAT VEGITATED ARE/
00.00	

SLOPE PAVEMENT TOWARDS FLAT VEGETATED AREAS OR POROUS PAVEMENT

WASTE MANAGEMENT CONTROL BMP'S:

- WM-1 MATERIAL DELIVERY & STORAGE
- WM-8 CONCRETE WASTE MANAGEMENT
- WM-5 SOLID WASTE MANAGEMENT
- WM-9 SANITARY WASTE MANAGEMENT
- WM-6 HAZARDOUS WASTE MANAGEMENT

	SITE PLAN KEYNOTES	
1	SAMPLE 1	
2	SAMPLE 2	
3	SAMPLE 3	
4	SAMPLE 4	

$$\langle 1 \rangle$$
 $\langle 2 \rangle$ $\langle 3 \rangle$ $\langle 4 \rangle$



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As indicated

Checked by

Scale

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FLOOR PLAN KEYNOTES				FLOO	R PLAN	
INCLI INCLE 1 NEW DOOR. SEE DOOR SCHEDULE 2 NEW WINDOW OFF WINDOW OFFICE				1.39" CLEAR REF	-RIGERATOR SPACE. F	
NEW WINDOW. SEE WINDOW SCHEDULE NEW WATER CLOSET. SEE CONSTRUCTION REQUIREMENTS ON SHE FOR LOW FLOW PATES	A2 EET A0 A2			VERIFY WIDTH 2 . KITCHEN SINK	AND DEPTH IF BUILT-I & D/W.	N REFRIGERATO
4 NEW SHOWER. SEE CONSTRUCTION REQUIREMENTS ON SHEET A0 FLOW RATES	FOR LOW A2			3 . 30" SLIDE-IN R LIGHT & FAN (\ 4 . 5'-0" TUB/SHO)	ANGE-OVEN COMBINA VENT TO OUTSIDE AIR) WER W/ WATER RESIS	FION W/ BUILT-IN
5 NEW VANITY SINK W/ COUNTER AND BASE CABINET. SEE CONSTRUC REQUIREMENTS ON SHEET A0 FOR LOW FLOW RATES	CTION A2			ABOVE DRAIN 5 SHATTERPRO	U.N.O. PROVIDE SHOW OF GLASS SHOWER EN	ER CURTAIN ROL
16 NEW METAL RAILINGS 17 NEW WOOD DECK	A2 A2			6 . LINE OF FLOO 7 . 30X36 HATCH		
18 NEW 2X6 STUD WALL 19 NEW 2X4 STUD WALL	A2 A2			9 . TANKLESS WA	TER HEATER.	
				1 1. PROVIDE WAL IN GARAGE	L MOUNTED TANKLESS	WATER HEATER
CEMENT, FIBER-CEMENT, FIBER MATER REINFORCED CEM GYPSUM BACKERS SHALL BE USED AS A BASE FOR WALL SHOWER AREAS AND WALL PANELS IN SHOWER AREAS. (I A DOMESTIC CLOTHES DRYER DUCT SHALL BE OF METAL DIAMETER. THE EXHAUST DUCTS SHALL NOT EXCEED A TO HORIZONTAL AND VERITCAL LENGTH OF 14', INCLUDING TO TWO FEET SHALL BE DEDUCTED FOR EACH 90-DEGREE EI TWO. WATER CLOSETS SHALL HAVE 15" TO ANY WALL OR OBST SIDE OF ITS CENTERLINE AND 24" CLEAR SPACE IN FRONT	IENT, GLASS MAT TILE IN TUB AND R702.4.2). AND A MIN. OF 4" IN OTAL COMBINED WO 90 DEG ELBOWS. LBOW IN EXCESS OF RUCTION ON EACH			IF F.A.U. AND V FITTING AT F.C USE OF EQUIP 1 2 WATER CLOSE 1 3 3" DIA. BUMPE 1 4 TEMPERATURE 1 5 14" x 6" GARAC 1 6 DRYER VENT (ELBOWS. PER 1 7 PROVIDE WAT 1 8 GAS DRYERS THAT PILOTS,	V/H ARE SIDE BY SIDE 3. AND A COMBO. 'B' VE MENT. (VERIFY) ET AT FLOOR ABOVE. R PIPE 36" HIGH W/ MIN E & PRESSURE RELIEF 3E EXHAUST VENT, SC MAX. 14 ft. LENGTH IN(C.M.C. 504.3. TER & WASTE FOR WAS INSTALLED IN A GARA(SWITCHES, BURNERS	AS REGDFORF. PROVIDE A "T" PL ENT CONNECTION VALVE. REENED AND LOU CLUDING (2) 90 DE GHER. GE MUST BE ELEV AND HEATING EL
IFORNIA RESIDENTIAL CODE NOTES				A MINIMUM OF 19 2X4 STUD PLU 20 22" X 30" ATTIC 21 F.A.U. IN ATTIC	18" ABOVE THE FLOOI MBING WALL C ACCESS PANEL PER C. PROVIDE 30" X 30" A	R LEVEL. C. TTIC ACCESS PA
EVERY SLEEPING ROOM MUST HAVE AT LEAST ONE WINDOW OR DOOR OPEN	ING DIRECTLY TO THE			(OR PER C.M.C 22 . ELECTRICAL S 23 NEW POST	. 90 8) ROVIDE FUEL GA ERVICE PANEL. (SEE L	S, LIGHT AND SW ITILITY PLAN).
 MIN. NET CLEAR OPENING WIDTH: MIN. NET CLEAR OPENING HEIGHT: 	20" 24"			24 . 42" HIGH GUAI 25 . 36" HIGH HANI	RDRAIL PER (DRAIL ABOVE NOSING	C.B.C. 509. PER
 MIN. NET CLEAR GRADE-FLR OPENING" MIN. NET CLEAR ABOVE GRADE-FLR OPENING: 	5.0 SQ.FT.(720.0 SQ.IN.) 5.57 SQ.FT.(820.8 SQ.IN.)					
 DOTION OF THE CLEAR OPENING SHALL BE: BAY WINDOWS MAY NOT PROJECT INTO SETBACKS. ALL NEW AND REPLACEMENT WINDOWS AND DOORS WITH GLASS MUST BE D 	44 MAX ABOVE FOOR			16' - 6"		
/ALUES SHALL BE 0.40 MAXIMUM) THE FOLLOWING LOCATIONS REQUIRE SAFETY GLAZING (TEMPERED OR LAMI	NATED). GLASS TO BE ETCH		2' - 10"	6' - 3"	5' - 3"	2' - 3"
ARKED: GLAZING IN SWINGING, SLIDING, FIXED, AND BI-FOLD DOORS.						
GLAZING IN WINDOWS WITHIN 24 FROM DOORS AND LESS THAN 60 HIGH. GLAZING WITHIN 5 FT FROM POOL OR SPA. GLAZING IN WINDOWSA AT SHOWER OR BATHTUB AND STAIR LANDINGS I	ESS THAN 60" ABOVE FLOOR.					
WHEN ALL OF THE FOLLOWING OCCUR: EXPOSED AREA OF INDIVIDUAL PA EXPOSED BOTTOM EDGE LESS THAN 18" ABOVE THE FLOOR; ONE OR MOF	NE GREATER THAN 9 SQ. FT; E WALKING SURFACES					
WITHIN 36" HORIZONTALLY OF THE PLANE OF THE GLAZING AND THE TOP I ABOVE THE FLOOR	EDGE IS MORE THAN 36"					
HE EXTERIOR LANDING' FINISH ELEVATION. THE LANDING'S WIDTH SHALL NO ERVED WITH A MINIMUM DIMENSION OF 36" MEASURED IN THE DIRECTION OF	T BE LASS THAN THE DOOR					
O EXCEED 1/ 4" TO 12" (2%). ISTALL OR VERIFY SMOKE AND CARBON MONOXIDE DETECTORS ARE EXISTII	NG PER CRC R314.1 AND	\				
315.2						
Door Schedule						
1ark Type Width	Height Comments	- 51				
013 16' 16' - 0"	8' - 0"	/				
)14 36" x 80" 0' - 0")-1 36" x 80" 0' - 0"	0' - 0"			Σ Λ - γ γ γ - Γ γ γ (Ξ γ Γ 2 γ - γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ		
D3 2068 2' - 0"	6' - 8"	4	W2	,	10)	/2
D4 2068 2' - 0" D4 2468 2' - 4"	6' - 8"					
D5 2668 2' - 6"	6' - 8"			16' - 2		
D6 2668 2' - 6" D7 2668 2' - 6"	<u> </u>	— W	 /15			
D2 2670 2' - 5 1/10	6" 8'-0"					
D15 2670 2' - 5 1/16 D8 2868 2' - 8"	6" 8' - 0" 6' - 8"			MA	STER BEDROOM	
D9 3068 3' - 0"	6' - 8"	_				
D9 3068 3' - 0" D12 3080 3' - 0"	6' - 8"	13' -		7' - 7"	8' - 7"	
D10 5080 5' - 0"	8' - 0"		V7			1
D11 10080 10' - 0"	8' - 0"	24' - 2"	4		/	
				D7)	D7) _	
						HALL
Window Schedule Window Schedule	-					
(SHGC 0.23 / U-FACTOR 0.30)		10' - 6'	M.			
Mark Type Width Height Count Or	mniClass Title			W.C.	MASTER CLOSE	T
2050 2' - 0" 5' - 0" 4 Caseme	ent Windows					
2070 2' - 0" 7' - 0" 5 Fixed W /13 3060 3' - 0" 6' - 0" 1 Fixed W	/indows					
/4 4010 4' - 0" 1' - 0" 4 Fixed W	/indows		W6	W11	W12	
4016 4' - 0" 1' - 6" 4 Fixed W V8 5040 5' - 0" 4' - 0" 1 Fixed W	/indows /indows		5	4		
V9 6050 6' - 0" 5' - 0" 2 Fixed W	lindows					
/9 7070 7' - 0" 7' - 0" 1 Fixed W	/indows				.0	
					=	
					2	
			5' - 8"	3' - 5"	8' - 1"	
			1	· · · · · · · · · · · · · · · · · · ·	u.	

1 FLOOR PLAN 1/4" = 1'-0"



ROOF PLAN NOTES

1. COMP. ROOF PER ICC REPORT

- 2. ROOF TILE NAILING SHALL BE PER THE MANUFACTURER'S SPECIFICATION WITH THE FOLLOWING MINIMUM REQUIREMENTS:
- a. 11 GA. CORROSION RESISTANT NAILS WITH MINIMUM 3/4" PENETRATION INTO SHEATHING PER C.R.C. SECTION 905.3.6 AND IN ACCORDANCE WITH C.R.C. TABLE 905.3.7
- b. HEADS OF ALL TILE SHALL BE NAILED. c. THE NOSES OF ALL EAVE COURSE TILE SHALL BE FASTENED WITH APPROVED CLIPS.
- d. ALL TILES SHALL BE NAILED AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS.
- e. THE NOSES OF ALL RIDGE, HIP AND RAKE TILES SHALL BE SET IN A BEAD OF APPROVED ROOFER'S MASTIC.
- 3. PROVIDE MINIMUM 26 GA. CORROSION RESISTANT METAL FLASHING AT ALL VALLEYS AND ROOF TO WALL CONDITIONS. 4. PROVIDE DIVERTERS AT DOORS AS REQUIRED.
- 5. PROVIDE A MINIMUM 22"X30" ACCESS OPENING IN ROOF SHEATHING TO OVER FRAMED ATTIC AREAS WITH 30" MINIMUM HEAD CLEARANCE - PROVIDE A 12"X12" OPENING IN ROOF SHEATHING TO OVER FRAMED ATTIC AREAS WITH LESS THAN 30" HEAD CLEARANCE FOR VENTILATION.
- 6. ALL ROOF, WALL AND EAVE VENTS SHALL BE SCREENED WITH CORROSION RESISTANT, NON-COMBUSTIBLE WIRE MESH WITH 1/4" MAXIMUM MESH OPENINGS. . NET FREE AIR VALUES FOR VENTS USED IN OUR VENTILATION CALCULATIONS ARE BASED ON " C & J METAL PRODUCTS INC. " AT WWW.CJMETALS.COM & BY "O'HAGIN'S INC" AT WWW.OHAGINVENT.COM THESE VALUES ARE SUBJECTED TO CHANGE WITHOUT NOTIFICATION AND MUST BE VERIFIED BY INSTALLER AT TIME OF INSTALLATION - APPROVED EQUAL PRODUCTS MUST PROVIDE THE NET FREE AIR VENTILATION TOTALS REQUIRED BY THE
- CALCULATIONS PROVIDED ON THESE ARCHITECTURAL DRAWINGS. RADIANT BARRIER WITH AN EMITTANCE OF 0.05 OR LESS REQUIRED AT UNDERSIDE OF ROOF SHEATHING & ATTIC SIDE OF GABLE END WALLS - REFER TO T-24 AND ENERGY CALCULATIONS.
- 9. PROVIDE KICK OUT FLASHING AT ALL FASCIA TO WALL TERMINATIONS 10. PROVIDE ATTIC & SOFFIT VENTILATION PER CRC SECTION R806. TOTAL NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT REDUCTION OF THE TOTAL AREA TO 1/300 IS PERMITTED PROVIDED THAT AT LEAST 50 PERCENT AND NO MORE THAN 80 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE THE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS, AS AN ALTERANATIVE. THE NET FREE CROSS-VENTILATION AREA MAY BE REDUCED TO 1/300 WHEN A CLASS I OR II VAPOR BARRIER IS INSTALLED ON THE WARM-IN-WINTER SIDE OF THE CEILING PER CRC SECTION R806.2.
- 11. RADIANT BARRIER REQUIRED PER TITLE 24 ENERGY COMPLIANCE SHEET. INSTALL RADIANT BARRIER ROOF SHEATHING WITH REFLECTIVE SIDE TOWARDS OPEN ATTIC. INSTALL RADIANT BARRIER MEMBRANE ON GABLE END ROOF CONDITIONS OVER TRUSS WEBS TOWARDS OPEN ATTIC.
- 12. INSTALLATION OF ROOFING SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. 13. ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF
- LEAVES AND DEBRIS IN THE GUTTER. REQUIRED GUTTER SIZE, DOWNSPOUT SIZE, AND DOWNSPOUT SPACING/LOCATIONS TO BE CALCULATED AND VERIFIED BY INSTALLING SUBCONTRACTOR
- 14. ALL GAPS/SPACES BETWEEN ROOFING TILES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS, OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D 3909 INSTALLED OVER THE COMBUSTIBLE DECKING.
- 15. ALL VALLEYS MUST BE PROVIDED FLASHING NOT LESS THAN 0.019-INCH NO. 26 GAGE GALVANIZED SHEET CORROSION-RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MINIMUM 72-POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D 3909, AT LEAST 36-INCH WIDE RUNNING THE FULL LENGTH OF THE
- 16. VALLEY. 17. COMPLYING WITH ASTM D 3909, AT LEAST 36-INCH WIDE RUNNING THE FULL LENGTH OF THE
- 18. VALLEY. NONPERFORATED CAP SHEET COMPLYING WITH ASTM D 3909, AT LEAST 36-INCH WIDE RUNNING THE FULL LENGTH OF THE RIDGE OR HIP APPLIED OVER THE COMBUSTIBLE 19. DECKING.
- 20. ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER. REQUIRED GUTTER SIZE, DOWNSPOUT SIZE, AND DOWNSPOUT SPACING/LOCATIONS TO BE CALCULATED AND VERIFIED BY INSTALLING SUBCONTRACTOR.

ATTIC VENTELATION CALCULATION

I. ROOF AREA - HOUSE

- • VENT# 1 QTY. __40___ • VENT# ____3____ QTY. _1___
- VENT#
- QTY._____ 2. ROOF AREA - GARAGE SF/150 = _____ SF x 144 SF = _____ SQ.INCH OF FREE TOTAL VENTILATION
 VENT# OTY. QTY. _ VENT# _____
 VENT# _____ QTY. _____ QTY. _____ - - 1 O' HAGIN'S CONCEALED ROOF VENT =98 S.I.

DORMER VENT 24"W =120 S.I.

GABLE VENT 14x24 =168 S.I.

=126 S.I.

GABLE VENT 14x18



2X FASCIA









ES SERVICE

ICC-ES Evaluation Report

ESR-1475

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DIVISION: 07 00 00-THERMAL AND MOISTURE PROTECTION Section: 07 31 13—Asphalt Shingles

REPORT HOLDER:

GAF

EVALUATION SUBJECT:

GAF SHINGLE ROOF COVERING SYSTEMS

1.0 EVALUATION SCOPE

- Compliance with the following codes:
- 2018, 2015, 2012, 2009 and 2006 International Building Code[®] (IBC)
- 2018, 2015, 2012, 2009 and 2006 International Residential Code[®] (IRC)

Properties evaluated:

Weather resistance

- Fire classification
- Wind resistance
- 2.0 USES

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

3.0 DESCRIPTION

3.1 Shingles:

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

3.1.2 Three-tab Shingles and Five-tab Shingles: Three-tab and five-tab shingles are composed of a single layer of fiberglass mat, impregnated and coated with asphalt on both sides, and surfaced with mineral roofing granules on the weather side and a mineral release agent on the underside.

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

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

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

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

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

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

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

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

3.1.5 Starter Shingles:

3.1.5.1 General: Starter Strip shingles are factory-made shingles used under the first course of shingles being installed or applied on the roof. See Table 2 for product sizes and manufacturing locations. See also Figure 3.

3.1.5.2 Pro-Start® Eave/Rake Starter Strip Shingles: These shingles are strips that are scored for separation into two starter shingles. The mineral surfacing is on the

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Page 1 of 13

weather side, with fine mineral granules on the underside. The self-sealing strip edge is applied facing up and along the roof eave or rake edge.

3.1.5.3 WeatherBlocker™ Premium Eave/Rake Starter Strip Shingles: These starter shingles are strips with perforations to assist with alignment of various shingle sizes. The mineral surfacing is on the weather side, with fine mineral granules on the underside.

3.1.5.4 StarterMatch™ Starter Strip Shingles and StarterMatch™ Complementary Color Starter Strip Shingles: These starter shingles are color coordinated to match the Grand Sequoia®, Grand Sequoia® AS, Grand Sequoia[®] ArmorShield[™], Grand Canyon[®] and Sienna[™] field shingles. The starter shingles must be installed as the second starter at the eaves on Grand Sequoia®, Grand Sequoia[®] AS, Grand Sequoia[®] ArmorShield[™], Grand Canyon[®] and Sienna[®] applications.

3.2 Fasteners:

Fasteners must comply with ASTM F1667 and must be minimum No. 12 gage [0.105-inch-diameter (2.67 mm) shank], 3/a-inch-diameter-head (9.5 mm), galvanized, stainless steel, aluminum or copper, barbed-, deformed-, or smooth-shank roofing nails. Fasteners must be of sufficient length to penetrate 3/4 inch (19.1 mm) into the sheathing, or through the sheathing, whichever is less.

3.3 Underlayment:

Under the 2018 IBC, the roof underlayment must be in accordance with Section 1507.1.1 and Table 1507.1.1(1). Under the 2015, 2012, 2009 and 2006 IBC, the roof underlayment must be in accordance with Section 1507.2.3. Under the 2018 and 2015 IRC, the roof underlayment must be in accordance with Section R905.1.1 and Table R905.1.1(1). Under the 2012, 2009 and 2006 IRC, the roof underlayment must be in accordance with Section R905.2.3. Underlayment must comply with ASTM D226 Type I or Type II; ASTM D4869 Type I, Type II, Type III or Type IV; or ASTM D6757.

3.4 Asphalt Cement:

Asphalt roofing cement used for hand-sealing the shingles must comply with ASTM D4586, Type I, Class I, or Type II, Class I.

4.0 INSTALLATION

4.1 New Construction:

4.1.1 General: When installed on new construction in accordance with this section, the shingles are a Class A roof covering. The shingles, underlayment and flashings must be installed in accordance with IBC Section 1507.2 or IRC Section R905.2 except as noted in this report. The shingles must be installed over roof decks of code-complying, minimum 3/8-inch-thick (9.5 mm) exterior-grade plywood; 7/16-inch-thick (11.1 mm) oriented strand board (OSB); or nominally 1-inch-by-6-inch lumber installed as solid sheathing conforming to 2018 and 2015 IBC Sections 2304.8.2 or 2308.7.10 (2012, 2009 and 2006 IBC Section 2304.7.2 or 2308.10.8) or IRC Sections R803, as applicable, and underlayment in accordance with Sections 3.3 and 4.1.2.3. Minimum roof slope must be 2:12 (16.7 percent) except for Glenwood[®] Shingle that must be installed on roofs with a minimum slope of 3:12 (25-percent).

4.1.2 Application:

4.1.2.1 Fastening: Fasteners are as described in Section 3.2. Shingles must be fastened to the roof deck with a minimum of four fasteners or as shown in the Standard Nailing Pattern in Figure 1. Spacing of fasteners must be

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as shown in Figure 1, and each course of shingles must be offset from the preceding course as shown in the manufacturer's published installation instructions.

4.1.2.2 Shingle Sealing: In colder climates or wind regions where it is questionable whether the factory-applied adhesive will activate and seal the shingles, to ensure sealing, the shingles must be hand-sealed with a minimum of three 1-inch-diameter (25.4 mm) spots of asphalt roofing cement equally spaced on the unexposed surface across each shingle. For applications on slopes greater than 21:12, hand-sealing is required. Hand-sealing consists of applying a minimum of three 1-inch-diameter (25.4 mm) spots of asphalt roofing cement on the unexposed surface, equally spaced across each shingle. For three-tab and five-tab shingles, one spot of asphalt roofing cement is placed under each corner of each tab (two spots per tab); the tab must then be pressed into the cement. For laminated shingles, four equally spaced spots of asphalt roofing cement are placed under the exposed portion of the shingle; the shingle must then be pressed into the cement. See the manufacturer's published installation instructions for hand-sealing guidelines. The shingles must be hand-sealed to the satisfaction of the code official.

4.1.2.3 Underlayment: Under the 2018 IBC, the roof underlayment must be installed in accordance with Section 1507.1.1 and Tables 1507.1.1(2) and 1507.1.1(3). Under the 2015, 2012, 2009 and 2006 IBC, the roof underlayment must be installed in accordance with Section 1507.2.8. Under the 2018 and 2015 IRC, the roof underlayment must be installed in accordance with Section R905.1.1 and Tables R905.1.1(2) and Table R905.1.1(3). Under the 2012, 2009 and 2006 IRC, the roof underlayment must be installed in accordance with Section R905.2.7. Minimum roof slope must be 2:12 (17-percent) except for underlayment used with the Glenwood® Shingle that must be installed on roofs with a minimum slope of 3:12 (25-percent). For roof slopes from 3:12 (25-percent) to 4:12 (33-percent), the Glenwood® Shingle must be installed with one layer of ASTM D1970 complying self-adhered underlayment. For roof slopes greater than 4:12, the roof deck must be covered with a minimum of one layer of underlayment as described in Section 3.3 of this report. For slopes between 2:12 and 4:12, two layers of the underlayment described in Section 3.3 of this report are required. In areas where there has been a history of ice forming along the eaves, causing a backup of water, an ice barrier must be provided in accordance with 2018 IBC Section 1507.2.7 (2015, 2012, 2009 and 2006 IBC Section 1507.2.8.2) or 2018 and 2015 IRC Section R905.2.7 (2012, 2009 and 2006 IRC Section R905.2.7.1), as applicable.

4.2 Hip and Ridge Shingles:

Hip and ridge shingles must be placed evenly over hips and ridges (or over shingle-over ridge vents), and fastened to the roof deck with two fasteners, described in Section 3.2 of this report, located on either side of the shingle, on the fastener line shown in Figure 1. Staples must not be used to fasten the ridge cap shingles.

4.3 Installation—Reroofing:

When installed over existing Class A or Class C asphalt shingle roofs in accordance with this section, the shingles described in this report are recognized as a Class A roof covering. The existing asphalt shingle roof covering must be inspected in accordance with the provisions and limitations 2018 and 2015 IBC Section 1511 (2012, 2009 and 2006 IBC Section 1510) or 2018 and 2015 IRC Section R908 (2012, 2009 and 2006 IRC Section R907).

RUBEROID® GA Description RUBEROID® Torch Smooth

Membrane is a tough, resilient modified bitumen membrane manufactured to stringent GAF specifications. Its core is a strong, resilient, non-woven polvester mat that is coated with weather-resistant, APP polymer modified asphalt. The membrane is available with a smooth surface.

RUBEROID® Torch Smooth Membrane is designed for new roofing and reroofing applications as well as flashings. RUBEROID® Torch Smooth Membrane is also an ideal product for repairs of built-up roofing membranes or other modified bitumen systems. Advantages

- System guarantees available for up to 15 years; select system constructions available with up to 20-year guarantee
- coverage." Cost effective—The installed cost of RUBEROID® Torch Smooth Membrane is less than most single-ply systems on the
- market today Light weight—Installed roof designs weigh less than
- 2 pounds per square foot (9.8 kg/m²).

Advantages (Continued) Resilient—RUBEROID® Torch Smooth Membrane's polyester mat core allows it to resist splits and

- tears due to its pliability and elongation characteristics.
- Durable—Specially formulated modified asphalt for lasting performance.
- RUBEROID® Torch Smooth Membrane is manufactured by
- GAF, a company with over 125 years in the roofing business. Applicable Standards

Party of Party and P	
Meets ASTM D6222, Type I, Grade S	5
FM Approved	
ICC ESR-1274	
Miami-Dade County Product Control	Approve
State of Florida Approved	
Texas Department of Insurance	
UI /UI C Listed	

Roll Size	1 square (106.5 gross sq. ft.) (9.8 m ²)
Roll Length	32.25' (9.8 m)
Roll Width	39.625' (1.0 m)
Approx. Roll Weight	83.2 lb (37.74 kg)
Product Thickness	0.148" (3.8 mm)

Property	Test Method	Value
Tensile Strength @ 0°F (min), lbf/in	ASTM D5147	60
Elongation @ 0°F (min), %	ASTM D5147	10
Low Temperature Flexibility (max), *F	ASTM D5147	32
Tear Strength (min), lbf	ASTM D5147	70
Dimensional Stability, (max) %	ASTM D5147	0.5

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Class F Class H	Tex	No	No	flass A	5 g	174	13-0123-01	F130124	Yes	LSA 1475	LSR 3267	0676-0042a	Ves	Yes	Yes	Contributes (LEED 2009)	13-1/4 x 29-3/8	at least 2D	3/59
Clais F Clais H	Yes	Yes	No	Class A		Yes*	No	FL10124	Complies	ESR 1475	ES9-3267	Not Bated	Not Eligible	White Only	White Only	Not Eligible	13-1/4 x 39-3/8	at feast 20	3/50
Class F Class H	2 (ma)	Ne	Ňņ	Des.A.		Yes.*	36-0033-31*	F130124	7m	228-1475	158-3367	0576-0030 (M18tu) 0075-0056 (Startwood) 0576-0037 (Conper Curryon) 0576-0036 (Conper Curryon) 0576-0038 (Conper Curryon) 0576-0031 0576-0037 0576-0037 0576-0137 (Charcoal) 0576-0138 (Charcoal) 0576-0138	where drive	Aged Chestrud Birchesod Charosi Ceastal Salar Gopper Canpoli Bioden Anthe Hickory Segwarod Sone Gray Wirle	Aged Chestrut Birthaodd Charcoal Coardal Sate Coaptal Sate Dogoser Compol Bolden Amber Hickory Sardanasodd Sache Bray White	Not Lights	13-14×16-10	se lasse 20	1/50
Class F Class H	Tes	No	No	Öasi A		Yes*	36-0811.11*	FL10124	Yes	659-1475	E58-3267	0676-0089 (Artic White Drily)	Artsic White Only	Arctic White Only	Arstic White Drify	Not Eligible	13-1/4 × 39-3/8	at least 70	3/50
Gats F Class H	tes	Yes	Nö	Oass A	-	Yes*	No	FL10124	Complies	ESR-1475	ESR-3267	Not Rated	NotEligible	Not Eligible	Not Eligible	Not Eligible	13-1/4 x 39-3/8	ut least 20	3/50

4	ASTM D3161	ASTM D7158	ASTM D3018	CSA A123.5	UL 2218 (Hail)	UL 790 (Fire)	Import Resistance Listings	Stain Guard	Miami-Dade	FBC	TDI	ICC (AC10)	ICC (AC438)	CRAC	Energy Star	Title 24	Miami 21	LEED Credit for Reflectance	Size	Shingles Per Bndl.	findi. Coverage
	Clais F	Class H	Tes	¥6*	Mö	Class A		¥Β.*	14-1022.23*	FL10124	Yes	ESR-1475	E58-3267	0575-0095 (Birchwood) 0575-0097 (Copper Convon) 0575-0098 (Gorden Amber) 0575-0198 (Charden Amber) 0575-0136 (Charden Amber) 0575-0138 0576-0138 (Ficture)	Not Bigble	Bi-Chesood Charcose Copper Canyon Golden Ambar Hickory Stone Gray	Birchwood Charcael Copper Carnon Golden Anber Hickory Stone Gray	Not Elgible	13-1/4 x 39-3/8	at least 36	4950
	Chain F	Class II	. Yes	Yes	No	Clau, A		743	16-1012-19	FL10128	Yes	159-1475	£\$8-3267	Not Rated	Nort Kligible	Not Eligible	Not Tigfola	Not Eligible	17 x 40	sit least 34	4/50
Ι	No	- N/A	No	Ne	Nő	Classic C		filo	15-0908.14*	PL10715	No	No	No	Not Ratesi	N/A	N/A	N/A	N/A	$32.58{\rm H}\times 19.375$ in .	N/A	HalfSkei 1.06.5 mt R
٦	Class &	A/A	Yes	Ves	No	člass A		No	No.	No	N/A	ESR-1475	E58-3267	Not Rated	M/A.	N/A	N/A	N/A	10 = 16-1/2 (folded)	et lennt 46 per box	1/31.05
1	Class A.	N/A	Tes	Tes	No	Dess A	r:);	No	No	No	N/A	ESR-1475	259-3267	Not Hated	N/A	N/A	N/A	N/04	8 x 16-1/2 ((okład)	at least 48 per	1/3115
1	Class F	N/A	Ťei	Yes	No	Class A	1 2	Yes	17-0824.04	FI.10124	N/A	158-1475	858-5267	Nurt Rated	9/A	N/A	N/A	N/04	17 e 56: 12 × 12 Tain	15 shingles, 45 skicos	4/1001F
	Class F	N/A	165	tio -	OHS 4	Class A	State Farm & Texas Dept of	YES	No	FL10124	N/A	ESR 1475	ESR 3267	Not Rated	N/A	64/A	N/A	N/A	12 4 36: 12 × 12 786s	20 shingles, 60 pioces	4/1001/F
٦	Class F	N/A	Tes.	Yes	No	Class A	e	Yes.	17 9824.04	FL10124	N/A	ESR-1475	699-3267	Not Rated	4./A	N/A	N/A	N/A	12 x 36; 12 x 12 Tabs	at least 30 studge cap shingles	5/1001F
	Class A	N/A	Tes	No	No	Class A		No	No	No	N/A	ES8-1475	E58-5267	Not Rated	X/A	6//4	N/A	N/A	13-1/4 x 39-1/2; 13- 1/4 x 9-22/32 Talm	At least 18	1/33.7515
	Clins A	N/A	76	8/A.	AVA	flass A		N/8.	13-0922.05*	1110124	N/A	158-1475	#\$R-3267	Nut Fisted	M/A	N/A	M/A	N/A	13 x 18; 4-1/2 × 18 Half	19 chingles, 38 gioces	1/120.35 LF Haff
	Ne	N/A	Ne	N/A	N/A	No		N/A	No	1110134	8/8	No	No	Not Rated	N/A	N/A	N/A	N/A	0° x 33'	874	1/33.17
	140	NGA	76	8/A	N/A	NO		N/A	No	FE10128		158-1475	158-3267	Non Rated	N/A	N/A	N/A	N/A	151/63/40	at least 18	1/80.15
	Class A	9/8	TR.	N/A	: N/A (Class A		N/A	15-0922-05	FL00124	N/A	ESB-1475	E\$8-3257	Not Rated	9(/A	N/4	N/4	NVA .	17 x 30; 3-1/2 x 40 Holf	.M. least 15	1/50 UF Full; 1/500 UF Half

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PREPARED BY:

Project number 21-2083 Date 14/06/2021 10:00:10 PM Drawn by Author Checker Checked by

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C:\Users\Rowell Shih\Downloads\21-2093 Trish McAllister Residence Flat 2021.04.07.rte

Scale



2 LEFT ELEVATION 1/4" = 1'-0"



NOTE:

FRONTING THE PROPERTY. NUMBERS SHALL CONTRAST WITH MIN. OF 4" HIGH WITH A MIN. STROKE OF 1/2". (R319.1)

BUILDING SHALL HAVE ADDRESS NUMBERS PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD BACKGROUND, BE ARABIC OR ALPHABETICAL LETTERS AND BE A

ELEVATION KEYNOTES

PREPARED BY:

n F

PROJECT:

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RIVERSIDE COUNTY, CA

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Essent anth

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(U.N.O..) = UNLESS NOTED OTHERWISE.

- 1. GAF COMP SHINGLE ROOF ESR 1475.
- WOOD ROOF FASCIA 2.
- 3. EXTERIOR FINISH – WOOD SIDING EXTERIOR PLASTER: PROVIDE (2) LAYERS OF GRADE "D" PAPER OVER ALL WOOD BASE Α. SHEATHING. (R703.7.3)
- EXTERIOR FINISH SHINGLE 4. EXTERIOR PLASTER: PROVIDE (2) LAYERS OF Α. GRADE "D" PAPER OVER ALL WOOD BASE SHEATHING. (R703.7.3)
- PROVIDE WEEP SCREED AT FOUNDATION (2/AD.1) 5. A MIN. 26 GA CORROSION -RESISTANT PLÁSTUC Α WITH A MIN. VERTICAL FLANGE OF 3-1/2" SHALL BE PROVIDED AT OR BELOW FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS. SCREED SHALL BE A MIN. OF 4" ABOVE EARTH OR 2" ABOVE PAVED AREAS.
- 6. DOOR SEE SCHEDULE
- 7. WINDOW SEE SCHEDULE
- 8. OVERHEAD GARAGE DOOR
- CORONADO STONE VENEER PER ESR 2598, SEE SHEET 9. AD2
- 10. METAL RAILINGS
- 11. WOOD BEAMS
- 12. LATTICE WORK 4"X10" WOOD

** WINDOWS AND DOORS SHALL BE INSTALLED AN FLASHED PER MANUFACTURERS WRITTEN INSTALLTION INSTRUCTIONS.



NOTE:

FRONTING THE PROPERTY. NUMBERS SHALL CONTRAST WITH MIN. OF 4" HIGH WITH A MIN. STROKE OF 1/2". (R319.1)

BUILDING SHALL HAVE ADDRESS NUMBERS PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD BACKGROUND, BE ARABIC OR ALPHABETICAL LETTERS AND BE A

ELEVATION KEYNOTES

(U.N.O..) = UNLESS NOTED OTHERWISE.

- 1. GAF COMP SHINGLE ROOF ESR 1475.
- 2. WOOD ROOF FASCIA
- 3. EXTERIOR FINISH WOOD SIDING A. EXTERIOR PLASTER: PROVIDE (2) LAYERS OF GRADE "D" PAPER OVER ALL WOOD BASE SHEATHING. (R703.7.3)
- 4. EXTERIOR FINISH SHINGLE
 A. EXTERIOR PLASTER: PROVIDE (2) LAYERS OF GRADE "D" PAPER OVER ALL WOOD BASE SHEATHING. (R703.7.3)
- PROVIDE WEEP SCREED AT FOUNDATION (2/AD.1) A. A MIN. 26 GA CORROSION -RESISTANT PLASTUC WITH A MIN. VERTICAL FLANGE OF 3-1/2" SHALL BE PROVIDED AT OR BELOW FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS. SCREED SHALL BE A MIN. OF 4" ABOVE EARTH OR 2" ABOVE PAVED AREAS.
- 6. DOOR SEE SCHEDULE
- 7. WINDOW SEE SCHEDULE
- 8. OVERHEAD GARAGE DOOR
- CORONADO STONE VENEER PER ESR 2598, SEE SHEET

- 12. LATTICE WORK 4"X10" WOOD

** WINDOWS AND DOORS SHALL BE INSTALLED AN FLASHED PER MANUFACTURERS WRITTEN INSTALLTION







2 RIGHT ELEVATION - COLORED 1/4" = 1'-0"



1) REAR ELEVATION - COLORED 1/4" = 1'-0"







PREPARED BY:

3/2021 10:00:46 PM







2 Section 2 1/4" = 1'-0"





SECTION KEYNOTES

(U.N.O. = UNLESS NOTED OTHERWISE)

- 3.
- NEW COMP. ROOF. PREFAB TRUSSES. SEE STRUCTURAL PLAN AND TRUSS PACKAGE 2X STUDS @ 16" O.C. (U.N.O.) END NAILED TO TOP PLATES, MUD SILLS & SOLE PLATES W/(2) 16d (U.N.O.) (2) 2X TOP PLATES, SAME WIDTH AS STUDS, INSTALLED TO PROVIDE OVERLAPPING AT CORNERS & AT INTERSECTIONS OF OTHER PARTITIONS. END JOINTS OF DBL. TOP PLATES TO OFFSET 48" (MIN.) & NAILED W/(2) 16d NAILS (U.N.O. ON PLANS). 2X MUD SILL, PRESSURE TREATED OR FOUNDATION GRADE REDWOOD. 2X SOLE PLATE, SAME WIDTH AS STUDS CONCRETE SI AB AND FOOTING. 4.
- CONCRETE SLAB AND FOOTING. PLYWOOD, SOLID ROOF SHEATHING TO BE RADIANT BARRIER TYPE PER ENERGY CALCS
- 1/2" DRYWALL (TYPICAL, U.N.O.) HEADER OR BEAM PER STRUCTURAL
- 10. EXTERIOR FINISH - SEE ELEVATIONS. 11.
- 12. FASCIA - SEE ELEVATIONS. 13. 2X SOLID BLOCKING.
- FIBER BATT INSULATION PER SECTION NOTES ABOVE. 14.

- 15. NEW WINDOW 16.
- NEW DOOR NEW CEILING FRAMING. 17.



PREPARED BY:



1/4" = 1'-0"

Scale

		CONSTRL	JCTION REC								
1. B	ATHROOM: A. ROOMS CONTAINING BA	ATHTUBS, SHO	WERS, SPAS AN	ND SIMILAR FIXTUR	ES SHALL BE PF		N				
	CRC R303.3, CBC 1203.4 B. CLEARANCE FOR WATE CENTER TO ANY SIDE 1	4.2.1, CMC T-4- ER CLOSET TO	4 BE A MINIMUM (DF 24-INCHES IN FR	ONT, AND 15-IN	CHES FROM ITS	i -				
	C. WATER CLOSET SHALL WATER PER FLUSH. CF	HAVE AN AVE PC 403.2.1	RAGE CONSUMP	PTION OF A MAXIMU	JM OF 1.28 GALL	ONS OF					
	D. RESIDENTIAL FAUCETS AT 60 PSI. AND 0.8 GAL	SHALL NOT E LONS PER MIN	XCEED A WATER IUTES AT 20 PSI.	R SUPPLY FLOW RA	TE OF 1.5 GALL	ONS PER MINUT	E MEASURED				
	PER MINUTE AT 80 PSI. F. WALL COVERING OF SH	CPC 408.2	JBS WITH SHOW	ERS SHALL BE OF	SMOOTH, NONA	BSORBENT SUF	RFACE				
	EXTENDED TO A HEIGH G. THE NET AREA OF THE IN CLEAR FLOOR AREA DIAMETER CIRCLE. CPO	IT NOT LESS T SHOWER ENC A, AND SHALL A C 408.6	HAN 6 FEET ABC LOSURE SHALL LSO BE CAPABL	DVE THE FLOOR CR BE 1,024 SQ. INCHE .E OF ENCOMPASS	IC R307.2, CBC 1 ES (7.1 SQ. FEET ING A 30-INCH	210.2.3) OR MORE					
 2. K	ITCHEN: A. KITCHEN SHALL HAVE A B. PROVIDE LOCAL EXHAL	A CLEAR PASS	AGEWAY OF NO ENTED TO OUTE	T LESS THAN 3 FT. (OORS WITH RATE	CBC 1208.1 = 100 CFM.						
2 0	CEC 150(0), ASHRAE ST C. FAUCETS AT KITCHENS PER MINUTE MEASURE	TD. 62.2. SHALL NOT E D AT 60 PSI. C	XCEED A WATEF DC 403.6	R SUPPLY FLOW RA	TED OF 1.8 GAL	LONS	1).				
 0.0	A. WHEN LOCATED WITHIN ROOMS WHEN LOCATE	N 60-INCHES O ED WITHIN 60-II	F THE FLOOR SUNCCESSION	JRFACE IN TUBS, S FLOOR SURFACE IN	HOWERS, SAUN I TUBS, SHOWER	IAS, OR STEAM RS, SAUNAS,	+ <i>)</i> .				
4. E	B. WHERE GLAZING AREA 18-INCHES ABOVE THE LECTRICAL:	IS MORE THAI FLOOR AND T	N 9 SQ. FT. IN AR OP EDGE MORE	EA, WITH THE BOT THAN 36-INCHES A	Tom Edge Les: Bove Floor.	S THAN					
	A. ALL RECEPTACLE OUTL ROOFTOPS, OUTDOOR PROTECTED BY GROU	ETS IN BATHR OUTLETS, WI ND FAULT CIR(COOMS, ABOVE K THIN 6-FEET OF CUIT INTERRUPT	KITCHEN COUNTER WET BAR SINK/LAU ER (GFCI). CEC 210	TOP, CRAWL SF NDRY SINK TO I).8.	ACES. GARAGE 3E	,				
	B. ALL RECEPTACLE OUTL C. COMBINATION TYPE AF BRANCH CIRCUITS. EX((CEC 210.12(B))	ETS ARE REQ CI CIRCUIT BR CEPT FOR BAT	UIRED TO BE LIS EAKERS ARE RE "HROOMS, KITCH	ETED TAMPER RESI EQUIRED FOR ALL 1 HENS, GARAGES, O	STANT. (CEC 40 20 VOLT SINGLE UTDOORS, AND	6.12 AND 210.52 E PHASE 15/20 A LAUNDRY ROO) MP MS.				
	D. AT A MINIMUM, ONE DE E. A GFCI PROTECTED RE A BATHROOM. (CEC 21	DICATED 20 AI CEPTACLE IS I 0.52(D))	MP CIRCUIT IS RI REQUIRED WITH	EQUIRED FOR A BA IN 3 FEET OF THE E	THROOM. (CEC	210.11(C)(2)) BASIN IN					
	F. RECEPTACLE OUTLETS G. SUBPANELS ARE NOT A (CEC 240.24(D) AND 240	ARE NOT ALL ALLOWED TO E 0.25(E))	OWED WITHIN O BE LOCATED IN E	R OVER A BATHTUE BATHROOMS OR CL	3 OR SHOWER S	STALL. (CEC 406 ⁻ S.	.9 (C))				
	H. CIRCUITS SHARING A G MUST USE A TWO POLI NON-CABLE CIRCUITS	ROUNDED CO E CIRCUIT BRE IN PANEL (CEC	NDUCTOR (NEU AKER OR AN IDI 210.4(D))	TRAL) WITH TWO U ENTIFIED HANDLE T	NGROUNDED (H TE. (CEC 210.4(E	IOT) CONDUCTO 3)) GROUP	DRS				
	I. THE KITCHEN COUNTER (CEC 210.52(B))	TOP RECEPT	ACLES MUST HA	VE A MIN. OF 2 DED	ICATED 20 AMP	CIRCUITS.					
	J. THE RECEPTACLES IN T BY DEDICATED 20 AMP	HE DINING AR CIRCUITS. (CE	EA, PANTRY, OR EC 210.52(B))	BREAKFAST NOOK	(MUST BE SUPF	PLIED					
	K. KITCHEN COUNTER TOP L. KITCHEN COUNTER TOP WALLS IS MORE THAN	PS 12 INCHES PS MUST HAVE 24 INCHES FRO	OR WIDER MUST ERECEPTACLE (OM A RECEPTAC	THAVE A RECEPTA DUTLETS SO NO PO CLE. (CEC 210.52(C))	CLE OUTLET. (C INT ALONG THE)	EC 210.52(C)) COUNTER					
	M. ISLAND AND PENINSUL (CEC 210.52(C)(1) AND (AR COUNTER (2))	TOPS MUST HAV	/E AT LEAST ONE R	ECEPTACLE.						
	N. KITCHEN COUNTERTOF 20 INCHES ON OR ABO	P RECEPTACLE VE, OR MORE	ES SHALL BE REA THAN 12 INCHES	ADILLY ACCESSIBLE BELOW THE COUN	E, AND LOCATEI	D NO MORE THA ACE. (CEC 210.52	N 2(C)(5))				
	O. THE SPACING FOR GEN OR FIXED GLASS IS OV	IERAL RECEPT ER 6 FEET FRO	TACLE OUTLETS	MUST BE LOCATED CLE OUTLET. (CEC 2) SO THAT NO P 10.52(A))	OINT ON ANY W	ALL				<u> </u>
	P. HALLWAY 10 FEET OR M	IORE MUST H	AVE AT LEAST O	NE RECEPTACLE O	UTLET. (CEC 21	0.52(H))					
	Q. LAUNDRY ROOMS MUS	T HAVE AT LE	AST ONE DEDICA	ATED 20 AMP RECE	PTACLE CIRCUI	Г. (СЕС 210.11 (С	2) (2))				
 5. S	MOKE ALARMS SHALL BE IN A. IN EACH SLEEPING ROO B. OUTSIDE EACH SEPARA C. ON EACH ADDITIONAL S	NSTALLED IN T DM. ATE SLEEPING STORY, INCLUI	HE FOLLOWING AREA IN THE IM DING BASEMENT	LOCATIONS (R314.) MEDIATE VICINITY ('S AND HABITABLE /	3): OF THE BEDROG ATTICS.	DMS.					
6 0	SMOKE ALARMS SHALL BE ACCORDANCE WITH SECT	E HARDWIRED FIONS R314.4 & S SHALL BE IN:	WITH BATTERY R314.5.	BACK-UP AND INTE	RCONNECTED	UNLESS EXEMP	TED IN	220			
 	A. OUTSIDE OF EACH SLEI B. ON EVERY LEVEL OF TH	EPING AREA IN 1E DWELLING	I THE IMMEDIATI UNIT INCLUDING	E VICINITY OF THE B BASEMENTS.	BEDROOM(S).	,			\$	D [™]	¢
7. E	MERGENCY EGRESS WIND HEIGHT 24", BOTTOM OF TH ABOVE FIRST LEVEL AND H	OWS SHALL B HE CLEAR OPE IAVING SILL HE	E MIN. 5.7 SQ. FT NING NOT GREA EIGHT < 24" SHAL	, MIN. NET WIDTH 2 TER THAN 44" ABO L BE PROTECTED E	20" AND MIN. NE VE FINISHED FL 3Y GUARDS (R3	T OOR. (R310) WII 12.2.1)	NDOWS				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
T S IN	HE 2019 ENERGY STANDAR PECIFIED IN 150.0(K). PERM ISTALLED LIGHTING INCLUE	ds require <i>a</i> Anently inst De:	LL PERMANENT	LY INSTALLED LUM G IS DEFINED IN 100	INAIRES TO BE	'HIGH EFFICACY ES OF PERMAN	′," AS ENTLY				
 ** T T 1.	ALL LUMINAIRES INSTALLE HIS ELIMINATES VARYING R O CALCULATE THE WATTAC LIGHTING ATTACHED	D IN RESIDEN EQUIREMENT GE OF LOW VE TO WALLS, CI	TIAL CONSTRUC S BY ROOM AND RUS HIGH EFFIC EILINGS, OR COL	TION MUST QUALIF TYPE OF CONTRO ACY LUMINAIRES IN LUMNS.	Y AS "HIGH EFF LS. THIS ALSO E N THE KITCHEN.	ICACY LUMINAIF	RES." NEED				 •
 2. 3. 4.	LIGHTING ATTACHED	TO THE TOP (STEMS STALLED CABIN OR BOTTOM OF I	ETS PERMANENTLY INS	TALLED CABINE	TS					
6. 7.	LIGHTING ATTACTED LIGHTING INTEGRAL LIGHTING THAT IS INT LIGHTING, IS SWITCH AUTOMATICALLY TUP	TO EXHAUST F TEGRAL TO GA IED INDEPEND RN OFF AFTER	ANS FANS NRAGE DOOR OF ENTLY FROM TH A PRE-DETERM	PENERS IF IT IS DES IE GARAGE DOOR (INED AMOUNT OF T	GIGNED TO BE U DPENER, AND D TIME.	SED AS GENER/ OES NOT	AL				
 ** A S	PERMANENT INSTALLED LU ND UTILITY ROOMS SHALL I ENSORS, AUTOMATICALLY	JMINAIRES IN E MANUAL-ON/A TURN LIGHTS	BATHROOMS, AT UTOMATIC-OFF (OFF IF AN OCCU	TACHED AND DETA OCCUPANT SENSOI IPANT FORGETS TO	ACHED GARAGE RS, ALSO KNOW D TURN THEM O	S, LAUNDRY RO /N AS VACANCY FF WHEN A ROC	OM DM IS				
 1. 2. 3.	O MANUALLY TURN THE LIG OFF UPON LEAVING OFF WHILE STILL OC ON UPON ENTERING	GHTS: THE ROOM CUPYING A RC THE ROOM	DOM								
A C T	. ALL LUMINARIES THA ONTROLLED BY EITHER A D HAN FIVE FEET ABOVE THE ONTROL.	T ARE INSTAL DIMMER OR VA FLOOR MUST	LED WITH JA8-CI CANCY SENSOR BE CONTROLLE	ERTIFIED LIGHT SO R. IN ADDITION, ALL D BY A DIMMER, VA	URCES ARE RE BLANK ELECTR CANCY SENSO	QUIRED TO BE ICAL BOXES MO R, OR FAN SPEE	RE D				
 B	. DIMMERS OR VACAN HAN 70 SQUARE FEET, OR I	CY SENSORS . N HALLWAYS.	ARE NOT REQUI	RED ON ANY LUMIN	IAIRES LOCATEI	D IN CLOSETS LI	ESS				
C	LUMINAIRES PROVID		LIGHTING, INCL UNTED, SHALL B	UDING LIGHTING FO	OR PATIOS, ENT	RANCE, AND	ROLLED				
	I A MANUAL UN/OFF SWITC ISABLES THE PHOTO CONT HAT DISABLES THE TIME CL IMINAIRES TO BE ALMAYS	IN A WICHON FROL; OR ASTI .OCK; OR AN E ON	RONOMICAL TIM	E CLOCK NOT HAVI IG AN OVERRIDE OI	NG AN OVERRIE R BYPASS SWIT	DE OR BYPASS S CH THAT ALLOW	SWITCH VS THE			JND FLOOR	
	Companyed to be ALWATS	UIN.						$(1) \frac{\text{ELEC}}{1/4"} =$: 1'-0"	I N	



_LIGHTING		PREPARED BY:
000	WALL MOUNTED INCANDESCENT MULTI-LIGHT FIXTURE	
+	WALL MOUNTED FLUORESCENT LIGHT FIXTURE	
ı⊕	WALL MOUNTED INCANDESCENT LIGHT FIXTURE	
. Ψ		
	WALL MOUNTED FLUORESCENT LIGHT	
	WALL MOUNTED UP LIGHT @ 16" A.F.F. U.N.O	
	SURFACE MOUNTED FLUORESCENT CEILING LIGHT FIXTURE	
	SURFACE MOUNTED INCANDESCENT CEILING LIGHT FIXTURE	
	PENDANT LIGHT FIXTURE	
Ŷ		
	4" RECESSED FLUORESCENT LIGHT FIXTURE	2021
\bigcirc	6" RECESSED LED LIGHT FIXTURE	
	4" RECESSED INCANDESCENT LIGHT FIXTURE	EVERETT SMITH
0	6" RECESSED INCANDESCENT LIGHT FIXTURE	DFSIGNS
<u> </u>		
<u> </u>	1 X 4 SURFACE MOUNTED FLOORESCENT CEILING LIGHT FIXTURE	RIVERSIDE COUNTY, CA
— — — —		TEL:951-323-2187
> >	2' X 4' SURFACE MOUNTED FLUORESCENT CEILING LIGHT FIXTURE	Buttst
<u> </u>		Adding Caning
$\Xi \equiv \exists$	SURFACE MOUNTED FLUORESCENT UNDER CABINET LIGHT FIXTURE	Email: everett@everettsmithdesigns.com
	SURFACE MOUNTED FLUORESCENT SOFFIT LIGHT FIXTURE	
Ø	RECESSED LIGHT FIXTURE ON PHOTOCELL	his document, and the ideas and designs incorporated herein, as an instrument of professional service, is the
+P	SURFACE MOUNTED LIGHT FIXTURE ON PHOTOCELL	in part, for any other project without the written authorization
$\overline{\Omega}$	VAPOR PROOF RECESSED LIGHT FIXTURE UIL LISTED	or Everett Smith/ESDESIGNS. All Rights Reserved
		PROJECT:
	RECESSED WALL WASH INCANDESCENT MULTI-LIGHT FIXTURE	
\bigcirc	RECESSED WALL WASH INCANDESCENT LIGHT FIXTURE	
Ē	RECESSED LIGHT-EMITTING DIODE FIXTURE	
Switchee		▶.
<u></u>		
	SINGLE SWITCH	
$\stackrel{\mathbf{\diamond}}{\Leftrightarrow}$	3-WAY SWITCH	
4	4-WAY SWITCH	2
, Z	SWITCH W/ MANUAL-ON/ AUTOMATIC-OFF OCCUPANT	
\leftrightarrow	MOTION SENSOR 30"MIN. NO MANUAL OVERRIDE	
↓	DIMMER SWITCH	
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	PUSH-BUTTON	
	UL-217 SMOKE DETECTOR/ ALARM HARD WIRED IN A SERIES	X.
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	SERIES (ALARMS SHALL BE INTERCONNECTED SEC 907.2.10) &	
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$\textcircled{\bullet}$	UL-2034 SMOKE DETECTOR AND CARBON MONOXIDE ALARM	
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PERFORMANCE PLATINUM



PERFORMANCE PLATINUM[™] High Efficiency Condensing Tankless Gas Water Heaters are designed to provide continuous hot water

requirements

clearance of 1/2 inch

Safety

Warranty

- Efficiency
- Low Emissions Ultra low NOx burner meets SCAQMD rule 1146.2 heat exchanger Easy Installation and Service
- NEW! 2" venting connections NEW! Vent up to 150 ft with 3" PVC and 60 ft with 2" PVC
- Built-in condensate neutralizer 1/2" Gas line compatibility up to 24 ft.¹ NEW! Includes easy to install
- hanging bracket for time savings (indoor models only) Exclusive! Maintenance Notice
- Setting Alerts homeowner, after 500 hours of use, to call for service
- (optional) Self-diagnostic system for easy
- installation and service High-altitude capability – up to
- 8,400 ft. elevation above sea level² Digital remote control now pre-wired! 10 ft. of thermostat wire included shows temperature setting and service
- codes Requires 120V power supply
- Performance Industry Leading! Low Flow
- Activation Minimum flow rate of .26 GPM and minimum activation flow rate of .40 GPM ensures hot water even in low demand situations
- Recirculation Pump Kit-Ready Providing faster hot water at the tap
- and savings of up to 12,000 gallons water/vear³ Exclusive! Hot Start Programming – Minimizes cold water bursts by staying in ready-fire state for back-to-back hot
- water needs Technology
- EcoNet[®] Enabled all Tankless products from 2010 to present can
- connect to EcoNet mobile app via Tankless EcoNet Accessory Kit (REWRA630TWH) For higher demand applications, easily
- link multiple tankless units to operate as one system (20 units max. additional accessories required)









Rheem Water Heating • 1115 Northmeadow Parkway, Suite 100 Roswell, Georgia 30076 · www.rheem.com

12/20 FORM NO. THD-3197 Rev. 2

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Intor CORV ARC PAULT CORCUM INTERRUPTED DUPLEX 2280 OUTLET 200 OUTL	\rightarrow	OUTLET - HALF HOT	
2200 OUTLET Image: Second S		110V CONV ARC FAULT CIRCUIT INTERRUPTED DUPLEX CEILING OUTLET - HALF HOT	
■ GROUND FAULT INTERRUPTED DUPLEX OUTLET ■ WEATHERPROOF GROUND FAULT INTERRUPTED DUPLEX OUTLET ■ FLOOR OUTLET, ROUND WILLOW VOLTAGE OUTLET ■ FLOOR OUTLET, ROUND WILLOW VOLTAGE OUTLET ■ DOOR CHIMES ■ DOOR CHIMES ■ DOOR CHIMES ■ UL-2017 SMORE DETECTOR ALARM HARD WIRD IN A SERIES ■ UL-2017 SMORE DETECTOR ALARM HARD WIRD IN A SERIES ■ UL-2017 SMORE DETECTOR ALARM HARD WIRD IN A SERIES ■ UL-2017 SMORE DETECTOR ALARM HARD WIRD IN A SERIES ■ UL-2017 SMORE DETECTOR ALARM HARD WIRD IN A SERIES ■ UL-2017 SMORE DETECTOR ALARM HARD WIRD IN A SERIES ■ UL-2017 SMORE DETECTOR ALARM HARD WIRD IN A SERIES ■ UL-2017 SMORE DETECTOR ALARM HARD WIRD IN A SERIES ■ COMPUTER DATA JACK ● COMPUTER DATA JACK ■ GENTRAL VACIUM SYSTEM PANEL ■ SECURITY SYSTEM PANEL ■ GENTRAL VACIUM SYSTEM ■ SECURITY SYSTEM PANEL ■ IST & A ADDRESS SIGN ON PHOTO CELL Nator HOSE BIB WI SWITC-PF NON-REMOVABLE BACK FLOW ■ <td>₩</td> <td>220V OUTLET</td> <td></td>	₩	220V OUTLET	
WeatherPROOF GROUND FAULT INTERRUPTED DUPLEX OUTLET Image: PLOBR OUTLET, ROUND W/LOW VOLTAGE OUTLET JUNCTION BOX General Electrical	-	GROUND FAULT INTERRUPTED DUPLEX OUTLET	
With Proceedings Construction box Ceneral Electrical Construction box Image: Door Chilles Const		WEATHERPROOF GROUND FALLET INTERRUPTED DUPLEX OUTLET	
FLORE OUTLET, ROUND WILOW VOLTAGE OUTLET FLORE OUTLET, ROUND WILOW VOLTAGE OUTLET UL JUNCTION BOX Compared Electrical UL 247 SMOKE DETECTOR: ALARM HARD WIRED IN A SERIES UL 247 SMOKE DETECTOR: ALARM HARD WIRED IN A SERIES UL 247 SMOKE DETECTOR: ALARM HARD WIRED IN A SERIES UL 247 SMOKE DETECTOR: ALARM HARD WIRED IN A SERIES UL 247 SMOKE DETECTOR: ALARM HARD WIRED IN A SERIES UL 247 SMOKE DETECTOR: ALARM HARD WIRED IN A SERIES UL 2004 SMCKE DETECTOR ALARM HARD WIRED IN A SERIES UL 2004 SMCKE DETECTOR ALARM HARD WIRED IN A SERIES UL 2004 SMCKE DETECTOR ALARM HARD WIRED IN A SERIES UL 2004 SMCKE DETECTOR ALARM HARD WIRED IN A SERIES UL 2004 SMCKE DETECTOR ALARM HARD WIRED IN A SERIES UL 2004 SMCKE DETECTOR ALARM HARD WIRED IN A SERIES UL 2004 SMCKE DETECTOR ALARM HARD WIRED IN A SERIES UL 2004 SMCKE DETECTOR ALARM HARD WIRED IN A SERIES UL 2004 SMCKE DETECTOR AND CARBON MONXIDE ALARM COMPUTER DATA LACK ELECTRICAL PANEL ELECTRICAL PANEL ELECTRICAL PANEL ELECTRICAL PANEL FILEPHONE PANEL FILE	WP Ll		
Owner JUNCTION BOX General Electrical Image: Status of the s	\rightarrow	FLOOR OUTLET, ROUND W/ LOW VOLTAGE OUTLET	
General Electrical	\bigcirc	JUNCTION BOX	
DOOR CHIMES USH-BUTTON UL-217 SINCE DETECTOR ALARM HARD WIRED IN A SERIES MULAMM SHALL BE INTERCONNECTED SEC 07 2.10 & WI BATTERY MARKING AND PLUGRESSEN SOT CLR IN FRONTIL SEC STANDARD SED METER PER SLO G.8 E. OUTON TO SUPPORT DETERMENT ON OUTSIDE AR FUELED FOR STATE EXHAUST FAN SO CFM. MIN. CONTROL BY A HUMIDITY TANGE OF SUPPORT ON OUTSIDE AR FUELED FOR STATE EXHAUST FAN SO CFM. MIN. CONTROL BY A HUMIDITY TANGE OF SUPPORT ON OUTSIDE AR FUELENTIATION	_General Elec	trical	9
Image: Public During Durin	$\bullet \bullet \bullet$	DOOR CHIMES	
Image: Second Secon	-•	PUSH-BUTTON	S S
Will MOUNTED SMOKE DETECTORY JALARM HARD WIRED IN A SERIES (JALARMS SHALL BE INTERCONNECTED SEC 907.2.10) & WIL MOUNTED SMOKE DETECTORY JALARM HARD WIRED IN A SERIES (JALARMS SHALL BE UNERCONNECTED SEC 907.2.10) & WI BATTERY BACK-UP UL-2034 SMOKE DETECTORY AND CARBON MONXOUE ALARM COMPUTER DATA JACK COMPUTER DATA JACK CABLE TELEVISION JACK CABLE TELEVISION JACK CABLE TELEVISION JACK CABLE TELEVISION JACK CABLE TELEVISION JACK COMPUTER DATA JACK COMPUTER DATA JACK CABLE TELEVISION JACK COMPUTER DATA SECURITY SYSTEM PANEL ELECTRICAL PANEL CABLE TELEVISION JACK CABLE TELEVISION JACK CABLE TELEVISION JACK COLOWATER STORE PANEL ELECTRICAL PANEL CABLE TELEVISION JACK COLOWATER STUB FOR ICE MAKER FUEL CAS FUEL CAS FUELCAS FUE	- O -	UL-217 SMOKE DETECTOR/ ALARM HARD WIRED IN A SERIES	K
A STREES CALLERING SMALL DE ELECTED ALLOW THE DAY ON THE DAY ON THE CALL ON THE C		BACK-UP	
Will BATTERY BACK-UP Will BATTERY BACK-UP UL-2034 SMOKE DETECTOR AND CARBON MONOXIDE ALARM COMBO HARD WIRED IN A SERIES (ALARMS SHALL BE INTERCONNECTED SEC 907.210) & WI BATTERY BACK-UP ITELEPHONE JACK CABLE TELEVISION JACK COMPUTER DATA JACK DISPOSAL ESCURITY SYSTEM PANEL ESCURITY SYSTEM PANEL ELECTRICAL PANEL Moter HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER TO EVICE O MCALLISST Gas CLIENT NAME CLIENT NAME CLIENT NAME CLIENT NAME CLIENT NAME DALE & TRISH CLIENT NAME DALE & TRISH CLIENT NAME CLIENT NAME CLIENT NAME CLIENT NAME CLIENT NAME CLIENT NAME CLIENT NAME <td></td> <td>SERIES (ALARMS SHALL BE INTERCONNECTED SEC 907.2.10) &</td> <td></td>		SERIES (ALARMS SHALL BE INTERCONNECTED SEC 907.2.10) &	
Image: Composition of the control back of the control		W/ BATTERY BACK-UP	
INTERCONNECTED SEC 907.2.10) & W/ BATTERY BACK-UP Image: Interconnected sec 97.2.10) BEAK		UL-2034 SMOKE DETECTOR AND CARBON MONOXIDE ALARM COMBO HARD WIRED IN A SERIES (ALARMS SHALL BE	
→ TELEPHONE JACK → CABLE TELEVISION JACK → COMPUTER DATA JACK → DISPOSAL → CENTRAL VACUUM SYSTEM → SECURITY SYSTEM PANEL → CABLE PANEL → CABLE PANEL → TELEPHONE PANEL → TELEPHONE PANEL → TELEPHONE PANEL → HOSE BIB WI NON-REMOVABLE BACK FLOW PREVENTER DEVICE → HOSE BIB WI NON-REMOVABLE BACK FLOW PREVENTER DEVICE → HOSE BIB WI SHUT-OFF/ NON-REMOVABLE BACK FLOW → PROVIDE GAS, WATER, AND POWER HOOK -UP Gas		INTERCONNECTED SEC 907.2.10) & W/ BATTERY BACK-UP	
+ CABLE TELEVISION JACK + COMPUTER DATA JACK ○ DISPOSAL + CENTRAL VACUUM SYSTEM + CABLE PANEL + CABLE PANEL - ELECTRICAL PANEL (200AMP) - ELECTRICAL PANEL (200AMP) - TELEPHONE PANEL - HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE - HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE - HOSE BIB W/ SHUT-OFF/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE 0 - HOSE BIB W/ SHUT-OFF/ NON-REMOVABLE BACK FLOW - TAIKKLESS WATER HEATER MOUNTED @ 15" MIN. A.F.F., PROJECT ADDRESS: 0 - Gas - FIREPLACE KEY/SWITCH - GAS COMPANY RISER-250 STANDARD SFD METER PER S.D.G.& E. Climate Control CLIENT NAME: Image: SPLIT AIR CONDITIONING UNIT Exhaust Fans ENERGY STAR EXHAUST FAN SO CFM. MIN, CONTROL BY A HUMIDSTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF SOME-0%. + ENERGY STAR EXHAUST FAN SO CFM. MIN, CONTROL BY A HUMIDSTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE +	-+•	TELEPHONE JACK	
→ COMPUTER DATA JACK ◇ DISPOSAL → CENTRAL VACUUM SYSTEM → CABLE PANEL → CABLE PANEL → CABLE PANEL → CABLE PANEL → TELEPHONE PANEL → HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE → HOSE BIB W/ SHUT-OFF/ NON-REMOVABLE BACK FLOW → PREVENTER DEVICE → HOSE BIB W/ SHUT-OFF/ NON-REMOVABLE BACK FLOW → PROVIDE GAS, WATER HEATER MOUNTED @ 13" MIN. A.F.F., → FUEL GAS → FUEL GAS → FIREPLACE KEY/SWITCH → Gas CLIENT NAME DALE & TRISH CLIENT NAME ELECTRICAL PLAN EXAMUST FANS SPLIT AIR CONDITIONING UNIT	\dashv	CABLE TELEVISION JACK	
○ DISPOSAL ● CENTRAL VACUUM SYSTEM ● CENTRAL VACUUM SYSTEM PANEL ● CABLE PANEL ● CABLE PANEL ● ELECTRICAL PANEL (200AMP) ● TELEPHONE PANEL ● 13" X 4" ADDRESS SIGN ON PHOTO CELL Water ● ● HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE ● COLD WATER STUB FOR ICE MAKER ● COLD WATER STUB FOR ICE MAKER ● TANKLESS WATER HEATER MOUNTED @ 16" MIN. A.F.F., PROJECT ADDRESS: PROVENTE DEVICE 0 MCAllister Riverside, Ca 0 MCAllister Riverside, Ca 0 MCAllister ■ TANKLESS WATER HEATER MOUNTED @ 16" MIN. A.F.F., PROJECT ADDRESS: PROVIDE GAS. ● ● TANKLESS WATER HEATER MOUNTED @ 16" MIN. A.F.F., PROJECT ADDRESS: Climate Control □ □ THERMOSTAT ● Gas ● FRONT, 15" CLR, E.A. SIDE ● HUMIDISTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE ● HUMIDIST RANGE OF 50%-60%, VENTED TO OUTISDE AR ●	→	COMPUTER DATA JACK	
+⊕ CENTRAL VACUUM SYSTEM +⊕ SECURITY SYSTEM PANEL +⊕ CABLE PANEL - ELECTRICAL PANEL - ELECTRICAL PANEL - TELEPHONE PANEL - HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE - HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE - HOSE BIB W/ SHUT-OFF/ NON-REMOVABLE BACK FLOW - FROVIDE GAS. WATER HEATER MOUNTED @ 16" MIN. A.F.F., - FROVIDE GAS. WATER, HEATER MOUNTED @ 16" MIN. A.F.F., - FIREPLACE KEY/SWITCH - GAS COMPANY RISER- 250 STANDARD SFD METER PER S.D.G.& E. Climate Control - - THERMOSTAT + HUMDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR - ENERGY STAR EXHAUST FAN 50 CFM. MIN, CONTROL BY A HUMIDISTAT CAPABLE OF BEING	\diamond	DISPOSAL	
Image: Security system Panel Image: Security System Panel Image: Security Stare Exhaust Fan So CFM MIN CONTROL BY A HUMIDIST CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF So%-80%, VENTED TO OUTSIDE AIR Image: Section Sign Stare Exhaust Fan So CFM MIN, CONTROL BY A HUMIDISTA T CAPABLE OF BEING ADJUSTED Settive To OUTSIDE AIR Image: Section Sign Stare Exhaust Fan So CFM MIN, CONTROL BY A HUMIDISTA T CAPABLE OF BEING ADJUSTED Settive ToroutSide AIR Image: S	-	CENTRAL VACUUM SYSTEM	
Image: Cable Panel ELECTRICAL PANEL (200AMP) Image: ELECTRICAL PANEL Image: Cable Panel Image: TelePhone Panel Image: Cable Panel Image: Te	ss	SECURITY SYSTEM PANEL	Description Date
ELECTRICAL PANEL (200AMP) TELEPHONE PANEL 13" X 4" ADDRESS SIGN ON PHOTO CELL Water HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE COLD WATER STUB FOR ICE MAKER COLD WATER STUB FOR ICE MAKER TANKLESS WATER, AND POWER HOOK-UP Cas Gas FIREPLACE KEY/SWITCH Gas Company RISER-250 STANDARD SFD METER PER S.D.G.& E. Climate Control Coll THERMOSTAT HOMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AR ENERGY STAR EXHAUST FAN 50 CFM. MIN. CONTROL BY A HUMIDISTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AR Project number 21-208 Date 14/06/2021 10:00:51 PF Drawn by RI CONTINUOUS WHOLE BUILDING EXHAUST PER CEC <p< td=""><td>CP</td><td>CABLE PANEL</td><td></td></p<>	CP	CABLE PANEL	
Image: Tellephone Panel		ELECTRICAL PANEL (200AMP)	
TARKLESS SIGN ON PHOTO CELL Water HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE HOSE BIB W/ SHUT-OFF/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE O MCAllister PROJECT ADDRESS: PROJECT ADDRESS: PROJECT ADDRESS: O MCAllister Riverside, Ca O MCAllister Riverside, Ca CLENT NAME: DALE & TRISH CLENT NAME: DALE & TRISH ELECTRICAL PLAN ENERgY STAR EXHAUST FAN 50 CFM. MIN. CONTROL BY A HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AR ENERgY STAR EXHAUST FAN 50 CFM. MIN. CONTROL BY A HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AR CONTINUOUS "WHOLE BUILDING EXHAUST PER CEC Checked by	TP	TELEPHONE PANEL	
Water	<u>#</u>	13" X 4" ADDRESS SIGN ON PHOTO CELL	
→ HOSE BIB W/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE → HOSE BIB W/ SHUT-OFF/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE O MCAllister → COLD WATER STUB FOR ICE MAKER → TANKLESS WATER HEATER MOUNTED @ 18" MIN. A.F.F., PROVIDE GAS, WATER, AND POWER HOOK -UP O MCAllister Gas	Water		
→ HOSE BID W/ NUMERENDVADLE DACK FLOW PREVENTER DEVICE → HOSE BID W/SHUT-OFF/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE O MCAllister → COLD WATER STUB FOR ICE MAKER → TANKLESS WATER HEATER MOUNTED @ 18" MIN. A.F.F., PROVIDE GAS, WATER, AND POWER HOOK -UP Gas			
Image bild with Still - OFF / NON-REMIOVABLE BACK FLOW PROJECT ADDRESS: Image bild with Still - OFF / NON-REMIOVABLE BACK FLOW PROVIDE CAS Image bild with Still - OFF / NON-REMIOVABLE BACK FLOW PROVIDE CAS Image bild with Still - OFF / NON-REMIOVABLE BACK FLOW PROVIDE CAS Image bild with Still - OFF / NON-REMIOVABLE BACK FLOW O MCAllister Image bild with Still - OFF / NON-REMIOVABLE BACK FLOW O MCAllister Image bild with Still - OFF / NON-REMIOVABLE BACK FLOW O MCAllister Image bild with Still - OFF / NON-REMIOVABLE BACK FLOW O MCAllister Image bild with Still - OFF / NON-REMIOVABLE BACK FLOW O MCAllister Image bild with Still - OFF / NON-REMIOVABLE BACK FLOW O MCAllister Image bild with Still - OFF / NON-REMION O MCALL D ME Image bild with Still - OF BEING ADJUSTED BETWEEN RELATIVE DALE & TRISH Image bild with Start CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE DALE CALL PLAN Image bild with Start CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE Date 14/06/2021 10:00:51 PI Image bild with Start CAPABLE OF Still ALL OF DET DET DET STILL ALL OF START CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE Project number 21-208 Image bild with Start CAPABLE OF Still ALL OF Start CAPABLE DET DET STILL ALL OF START CAPABLE OF START SANG, VENTED DE OUTSIDE ALR	au		
	_//-	RUSE DID VV/ SHUT-OFF/ NON-REMOVABLE BACK FLOW PREVENTER DEVICE	PROJECT ADDRESS:
	-cw	COLD WATER STUB FOR ICE MAKER	0 McAllister
PROVIDE GAS, WATER, AND POWER HOOK -UP Gas	[* _*	TANKLESS WATER HEATER MOUNTED @ 18" MIN. A.F.F.,	Riverside, Ca
Gas → FUEL GAS CLIENT NAME: → GAS COMPANY RISER- 250 STANDARD SFD METER PER S.D.G.& E. DALE & TRISH Climate Control	Ψ	PROVIDE GAS, WATER, AND POWER HOOK -UP	
→ FUEL GAS → GAS COMPANY RISER- 250 STANDARD SFD METER PER S.D.G.& E. Climate Control	_Gas		
→ FIREPLACE KEY/SWITCH → GAS COMPANY RISER- 250 STANDARD SFD METER PER S.D.G.& E. Climate Control		FUEL GAS	CLIENT NAME:
GAS COMPANY RISER- 250 STANDARD SFD METER PER S.D.G.& E. DALE & TRISH ■ Climate Control	<u> </u>	FIREPLACE KEY/SWITCH	
Climate Control THERMOSTAT HE 220V CIRCUIT BREAKER FOR A.C. COMPRESSOR-30" CLR IN FRONT, 15" CLR. E.A. SIDE SPLIT SPLIT AIR CONDITIONING UNIT Exhaust Fans Energy STAR EXHAUST FAN 50 CFM. MIN. CONTROL BY A HUMIDISTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR ENERGY STAR EXHAUST FAN AND FLUORESCENT LIGHT FIXTURE COMBO 50 CFM. MIN, CONTROL BY A HUMIDSTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR CONTINUOUS "WHOLE BUILDING EXHAUST PER CEC SECTION 150, REF INDOOR VENTILATION CALC A2.1.		GAS COMPANY RISER- 250 STANDARD SFD METER PER S.D.G.& E.	
THERMOSTAT Here 220V CIRCUIT BREAKER FOR A.C. COMPRESSOR-30" CLR IN FRONT, 15" CLR. E.A. SIDE SPLIT AIR CONDITIONING UNIT Exhaust Fans	Climate Con	trol	
Improved for the explosion of the explosion			
Image: Sector of the arter for A.C. CONFRESSOR-30 CLK IN FRONT, 15" CLR. E.A. SIDE SPLIT AIR CONDITIONING UNIT Exhaust Fans			
SPLIT AIR CONDITIONING UNIT ELECTRICAL PLAN Exhaust Fans	∏ē_ ∧	FRONT, 15" CLR. E.A. SIDE	
Exhaust Fans		SPLIT AIR CONDITIONING UNIT	ELECTRICAL PLAN
Exhaust Fans Image: Bit of the bit	OPLII		
 ENERGY STAR EXHAUST FAN 50 CFM. MIN. CONTROL BY A HUMIDSTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR ENERGY STAR EXHAUST FAN AND FLUORESCENT LIGHT FIXTURE COMBO 50 CFM. MIN, CONTROL BY A HUMIDSTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR CONTINUOUS "WHOLE BUILDING EXHAUST PER CEC SECTION 150, REF INDOOR VENTILATION CALC A2.1. 	Exhaust Fan	S	
 HUMIDSTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR ENERGY STAR EXHAUST FAN AND FLUORESCENT LIGHT FIXTURE COMBO 50 CFM. MIN, CONTROL BY A HUMIDSTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR CONTINUOUS "WHOLE BUILDING EXHAUST PER CEC SECTION 150, REF INDOOR VENTILATION CALC A2.1. 		ENERGY STAR EXHAUST FAN 50 CFM. MIN. CONTROL BY A	
HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR ENERGY STAR EXHAUST FAN AND FLUORESCENT LIGHT FIXTURE COMBO 50 CFM. MIN, CONTROL BY A HUMIDSTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR CONTINUOUS "WHOLE BUILDING EXHAUST PER CEC SECTION 150, REF INDOOR VENTILATION CALC A2.1.	9	HUMIDSTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE	
FIXTURE COMBO 50 CFM. MIN, CONTROL BY A HUMIDSTAT CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR Date 14/06/2021 10:00:51 PI Town by RI CONTINUOUS "WHOLE BUILDING EXHAUST PER CEC SECTION 150, REF INDOOR VENTILATION CALC A2.1. Checked by E		HUMIDLEY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR	Project number 21 . 2022
CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE HUMIDITY RANGE OF 50%-80%, VENTED TO OUTSIDE AIR CONTINUOUS "WHOLE BUILDING EXHAUST PER CEC SECTION 150, REF INDOOR VENTILATION CALC A2.1.	-	ENERGY STAR EARAUST FAN AND FLUORESCENT LIGHT FIXTURE COMBO 50 CFM. MIN, CONTROL BY A HUMIDSTAT	
CONTINUOUS "WHOLE BUILDING EXHAUST PER CEC SECTION 150, REF INDOOR VENTILATION CALC A2.1.	Ŷ	CAPABLE OF BEING ADJUSTED BETWEEN RELATIVE	Drawn by
SECTION 150, REF INDOOR VENTILATION CALC A2.1.	_	TUMIDITT KANGE OF 50%-80%, VENTED TO OUTSIDE AIR CONTINUOUS "WHOLE BUILDING EXHAUST PER CEC	Oha ha hi
	CW-B	SECTION 150. REF INDOOR VENTILATION CALC A2.1.	Unecked by ES
	6	OVER HEAD EXHAUST HOOD ABOVE COOK TOP VENTED	
A DIRECTLY TO OUTSIDE AIR. PROVIDE 100 GFM. MIN. AO. AO. A	9	DIRECTLE TO OUTSIDE AIR. PROVIDE 100 CFM. MIN.	
SET = → DRYER EXHAUST DUCT 4" DIA. MIN. VENTED TO OUTSIDE W/ BACKDRAFT DAMPER. EXHAUST DUCT LENGTH IS LIMITED	9		
TO 14' WITH 2 ELBOWS MAX. Scale As indicate	$\bullet = \Rightarrow$	DRYER EXHAUST DUCT 4" DIA. MIN. VENTED TO OUTSIDE W/ BACKDRAFT DAMPER. EXHAUST DUCT LENGTH IS LIMITED	Cools
	$\mathbf{c} \equiv \mathbf{c}$	DRYER EXHAUST DUCT 4" DIA. MIN. VENTED TO OUTSIDE W/ BACKDRAFT DAMPER. EXHAUST DUCT LENGTH IS LIMITED TO 14' WITH 2 ELBOWS MAX.	Scale As indicated

		Door Schedule							
	Mark	Туре	Width	Height	Comments				
	D13	16'	16' - 0"	8' - 0"					
	D14	36" x 80"	0' - 0"	0' - 0"					
	0-1	36" x 80"	0' - 0"	0' - 0"					
	D3	2068	2' - 0"	6' - 8"					
	D4	2068	2' - 0"	6' - 8"					
	D4	2468	2' - 4"	6' - 8"					
İ	D5	2668	2' - 6"	6' - 8"					
Ī	D6	2668	2' - 6"	8' - 0"					
ĺ	D7	2668	2' - 6"	6' - 8"					
ĺ	D2	2670	2' - 5 1/16"	8' - 0"					
ĺ	D15	2670	2' - 5 1/16"	8' - 0"					
	D8	2868	2' - 8"	6' - 8"					
	D9	3068	3' - 0"	6' - 8"					
	D9	3068	3' - 0"	6' - 8"					
	D12	3080	3' - 0"	8' - 6"					
	D10	5080	5' - 0"	8' - 0"					
	D11	10080	10' - 0"	8' - 0"					



			Window Sc	hedule W	/indow S	Schedule -	
			(SHGC	0.23 / U-I	FACTOF	R 0.30)	
	Mark	Туре	e Width	Height	Count	OmniClass	Title
		2050	2' - 0"	5' - 0"	4	Casement Windo	ows
		2070	2' - 0"	7' - 0"	5	Fixed Windows	
	W13	3060	3' - 0"	6' - 0"	1	Fixed Windows	
	W4	4010	4' - 0"	1' - 0"	4	Fixed Windows	
		4016	4' - 0"	1' - 6"	4	Fixed Windows	
	W8	5040	5' - 0"	4' - 0"	1	Fixed Windows	
	W9	6050	6' - 0"	5' - 0"	2	Fixed Windows	
	W9	7070	7' - 0"	7' - 0"	1	Fixed Windows	







ES EVALUATION SERVICE	Most Widely Accepted and Trusted	Section 12.1.6 referenced in installed with 1405.10.1.3 or
ICC-ES Evaluation Report	ESR-2598 Reissued October 2019 This report is subject to renewal October 2020.	Studs must b on center, unk 3.4 lb/yd ² (1.4 complying with
www.icc-es.org (800) 423-6587 (562) 699-0543	A Subsidiary of the International Code Council®	be self-furred fasteners are
DIVISION: 04 00 00—MASONRY Section: 04 71 00—Manufactured Brick Masonry Section: 04 73 00—Manufactured Stone Masonry	spread and smoke-development requirements of IRC Section R302.9. The attributes of the stone veneer have been verified as	installed over o All lath and me barriers by guidelines and fastened to ea
REPORT HOLDER:	conforming to the provisions of (i) CALGreen Section	C1063 and IF
CORONADO STONE PRODUCTS	A4.405.1.3 for prefinished building materials and Section A5.406.1.2 for reduced maintenance; (ii) ICC 700-2015 and ICC 700-2012 Sections 602.1.6 and 11.602.1.6 for termite resistant materials and Sections 601.7, 11.601.7	spaced a maxi studs may be (610 mm) prov
EVALUATION SUBJECT:	and 12.1(A).601.7 for site-applied finishing materials; and	high (9.5 mm), steel studs at a
CORONADO STONE	(iii) ICC 700-2008 Section 602.8 for termite-resistant materials and Section 601.7 for site-applied finishing	For attaching
1.0 EVALUATION SCOPE	areas rest with the user of this report. The user is advised	0.120 inch (3
1.1 Compliance with the following codes:	of the project-specific provisions that may be contingent	⁷ / ₁₆ inch (11.1 studs a minim
2015 International Building Code [®] (IBC)	those conditions is outside the scope of this report. These	have a minimu
2015 International Residential Code [®] (IRC)	codes or standards often provide supplemental information	to steel studs,
Other codes (see Section 8.0)	as guidance.	having sufficie
Properties evaluated:	4.0 INSTALLATION	(9.5 mm) throu
Veneer strength and durability	4.1 General:	of 43 mils thick
Surface burning characteristics	Installation of Coronado Stone must comply with this	A /2-inch-thi
1.2 Evaluation to the following green code(s) and/or standards:	report, the manufacturer's published installation installation instructions, and the applicable code. The manufacturer's published installation instructions must be available at the	over the meta trowel in acco
 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11 	jobsite at all times during installation. The veneer may be applied over painted exterior stucco,	with IBC Section
■ 2015, 2012 and 2008 ICC 700 National Green Building Standard [™] (ICC 700-2015, ICC 700-2012 and ICC 700- 2008)	plywood or gypsum sheathing; open wood or steel studs; or masonry walls. For interior applications, the veneer may also be installed over plaster or gypsum wallboard.	4.2.1.2 Instal veneer units masonry back
Attributes verified:	4.2 Preparation of Backing:	masonry surfa
See Section 3.0	4.2.1 Cement Plaster Backings: Cement plaster	corrosion-resis
2.0 USES	backings may be applied over painted exterior stucco, plywood OSB or gypsum sheathing supported by wood or	plaster base c
Coronado Stone is used as an adhered, nonload-bearing exterior veneer or an interior finish and trim on walls of wood stud or light-gage-steel stud construction or masonry walls.	steel studs; over open wood or steel studs; over concrete walls; and over concrete masonry walls, when installed as described in Sections 4.2.1.1 and 4.2.1.2.	be fastened to ASTM C1063, The fasteners (152 mm) on c
3.0 DESCRIPTION	installations, the cement plaster backing must be installed	negative wind
The veneer is a precast concrete product made to resemble natural stone or brick in color and in texture. The	over a water-resistive barrier complying with IBC Section 1405.10.1.1 or IRC Section R703.12.3, as applicable. Also, flashing must be installed as required by IBC Section	fasteners mus official. The so Section 4.2.1.1
admixtures and coloring. The veneer units are molded and cured at the plant. The average saturated weight of the	1405.10.1.2 or IRC Sections R703.4 and R703.12.2, as applicable, and weep screeds must be installed at the bottom of the stope veneer. The weep screeds must	4.2.2 Mason
installed veneer units does not exceed 15 pounds per square foot (73.2 kg/m ²). Recognized veneer styles are	comply with, and be installed in accordance with, IBC Section 1405.10.1.2.1 or IRC Section R703.12.2, as	backings, with clean. Painted

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The veneer has a Class A finish rating in accordance

with IBC Section 803.1.1 and complies with the flame-

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applicable. In addition, the weep screeds must have holes

with a minimum diameter of 3/16 inch (4.8 mm) spaced at a

maximum of 33 inches (838 mm) on center, as required by

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.2 of TMS 402/ACI 530/ASCE 5, which is IBC Section 1405.10. The veneer must be the clearances required by IBC Section IRC Section R703.12.1, as applicable.

be spaced no more than 16 inches (406 mm) ess otherwise noted. Lath must be a 2.5 or or 1.8 kg/m²), self-furring diamond metal lath n ASTM C847 or a 1.4 lb/yd² (0.760 kg/m²) esh complying with ASTM C1032. Lath may or non-furred, provided furring or furring used. When the cement plaster backing is open studs, a paper back lath must be used. sh must be installed over the water-resistive following lath manufacturer's installation I recommendations. Lath or mesh must be ich of the wall studs as required by ASTM 5.0 CONDITIONS OF USE RC Section R703.7.1. Fasteners must be mum of 6 inches (153 mm) on center. Steel spaced a maximum of 24 inches on center vided the lath is corrosion-resistant. 3/8-inchribbed, expanded metal lath attached to the maximum of 5 inches (127 mm) on center.

g lath to wood studs, fasteners must be ils having a minimum shank diameter of 3.06 mm), a minimum head diameter of mm) and sufficient length to penetrate the um of 1 inch (25.4 mm). Wood studs must m specific gravity of 0.42. For attaching lath fasteners must be a corrosion resistant pan ake head #8 self-drilling, tapping screws ent length to protrude a minimum of 3/8 inch gh the stud. Steel studs must be a minimum

ck (12.7 mm) scratch coat of Type S mortar er) complying with ASTM C926 is applied I lath or woven wire mesh, etched using a ordance with the manufacturer's published tructions, and allowed to cure in accordance ion 2512.6, prior to application of the veneer

lation over Concrete and Masonry: The may be applied directly to concrete and king without lath, provided the concrete and ce is clean. Where lath is used, it must be tant metal lath complying with ASTM C847, .760 kg/m²), corrosion-resistant, woven wire omplying with ASTM C1032. The lath must the wall in accordance with Section 7.10 of and IRC Section R703.7.1, as applicable. must be spaced a maximum of 6 inches center vertically and 16 inches (406 mm) on tally. The gravity load (shear) capacity and load (pull-out) capacity of the proprietary t be justified to the satisfaction of the code ratch coat must be applied as described in

ry Backing:

units may be applied directly to masonry nout the use of lath, provided the surface is clean. Painted, waterproofed or dirty masonry surfaces must be cleaned by sandblasting or other means to provide a good bond surface.

4.3 Application of Veneer Units:

Cement plaster backings must be moistened accordance with the veneer manufacturer's published installation instructions. Veneer units must be installed in

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ICC-ES Evaluation Report

listed in Table 1.

	This report is subject to renewal October 2020.
www.icc-cs.org (800) 423-6587 (562) 699-0543	A Subsidiary of the International Code Council®
DIVISION: 68 00 00-OPENINGS	The attributes of the skylights have been verified as

Section: 08 62 00-Unit Skylights

REPORT HOLDER:

ACUITY BRANDS LIGHTING DBA: SUNOPTICS PRISMATIC SKYLIGHTS

EVALUATION SUBJECT:

- SUNOPTICS PRISMATIC SKYLIGHTS
- 1.0 EVALUATION SCOPE
- 1.1 Compliance with the following codes: 2018, 2015, 2012, 2008 and 2006 international Building.
- Coshi^m(IBC) ■ 2018, 2015, 2012, 2009 and 2006 International
- Residential Code[®] (IRC)
- Properties evaluated:
- Structural

skylights are noted in Table 1.

- Water peceitation resistance Air infiltration
- Durability

1.2 Evaluation to the following green standard: 2015 and 2012 ICC 700 National Green Building Standary** (ICC 709-2015 and ICC 700-2012) Attributes verified

See Section 3.0. 2.0 USES

The Sunoptics Prismatic Skylights Model 800MD and 800SC skylights described in this report are plasto-glazed. non-operable skylights complying with Sections 2405 and 2610 of the IBC and Section R308.6 of the IRC.

3.0 DESCRIPTION Sunoptics Prismatic Skylights are clazed using prematic bed domes formed from flat OC2 prismatic acrylic sheets with a thinnest thickness of 0.040 inch (1.016 mm) (overall thickness of 0.120 inch) or CC1 prismatic polycarbonate sheets with a thinnest thickness of 0.045 inch (1.143 mm) (overall thickness of 0.125 inch) recognized under ESR-3302 The domes are attached at the factory to a Name made from 6063 T6 aluminum extrusions. The skylights are curb-mounted. Details for the

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The attributes of the skylights have been verified as priorming to the requirements of ICC 708-2015 and ICC 00-2012 Section 701.4.3.8 for fenestration air leakage Note that decisions on compliance for those areas rest with e user of this report. The user is advised of the projectspecific provisions that may be contingent upon meeting pecific conditions, and the ventication of those condition is outside the scope of this report. These codes or standards often provide supplemental information as

Reissued October 2019

4.0 DESIGN AND INSTALLATION

- 4.1 Design:
- 4.1.1 Performance Grade: The performance grade (PG) ratings are provided in Table 1.

4.1.2 Air Infiltration: When tested at an air preasure differential of 1.57 psf (75 Pa), the skylights have an air leskage rate of less than 0.3 cfm/ft² (1.5 L/s*m²).

4.2 Installation: The curb-mounted skylights must be installed on minimum 2-by nominal wood framing with a minimum 0.50 specific gravity, sized to the inside dimension noted in Table 1, and of a height sufficient so that the plastic glazing is a inimum of 4 inches (102 mm) above the plane of the roof The wood curb and its attachment to the roof structure must be designed to resist wind uplift and gravity loads.

The skylights are installed on curbs that are fisshed in accordance with the code. Cauking'sealing on the curb surface in contact with the mounted skylight is not required for an air seal. The skylight units are supplied with an air seal tape factory-applied on the frame surface that contacts the curb.

The skylight must be attached with No.12 by 11/2-inch stainless steel, HWH (hex washer head) wood screws with a neoprene gasket, in each mounting hole provided in the skylight trame, with the screw length being sufficient to netrate the wood a minimum of the inch (22.2 mm). See Table 1 for the required fastener spacing.

The skylights must have the gap between the skylight frame and the wood curb fully shimmed. Flashing of the outh must comply with, and be installed in accordance with, IBC Section 1507 or IRC Section R905, (applicable. The wood outb and its attachment to the roo structure must be designed to resist the appropriate codeprescribed loads.

Additional installation details are provided in Figures 1, 2

ESR-3557 | Most Widely Acceptetiand Trouled 5.0 CONDITIONS OF USE

The Sunoptics Prismatic Skylights Model 800MD and 800SC skylights described at this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the lowing conditions

- 5.1 The akylights must be installed in accordance with this report, Sections 2405.4 and 2610 of the IBC or Section R308.6 of the IRC, as applicable, and the manufacturer's published installation instructions. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.
- 5.2 The allowable loads (performance grades) for the skylights are as set forth in Table 1 and must be equal to, or greater than, the applied loads specified by the applicable code. Snow loads are outside the scope of this report.
- 5.3 The manufacturer's installation instructions must be provided at each jobsite. 5.4 The use of the skylights as components of fire-

this report.

- resistance-raied assemblies is outside the scope of 5.5 The attachment of the curbs to the supporting
- structure is outside the scope of this report. 5.4 The use of the skylights in wind-borne debris regions is outside the acope of this report.

5.7 The skylights are manufactured in Secrement California, under a quality control program with inspections by ICC-ES 6.8 EVIDENCE SUBMITTED

Page 2 of 4

- Data in accordance with the ICC-EE Acceptance Criteria or Plasto-glazed Skylights (AC16), dated April 2017 reditorially revised December 2018). 7.0 IDENTIFICATION
- 7.1 The skylights are labeled with the Sunoptics Prismatic Skyights name and address: the product model (Model 900MD or 800SC) and product designation as noted in Table 1 of this report. The evaluation report number (ESR-3567); and a safety label complying with Class I, ANSI Z 35.1-1972 (warning of risk of
- falling) 7.2 The report holder's contact information is the ACUITY BRANDS LIGHTING DBA: SUNOPTICS
- PRISMATIC SKYLIGHTS 6201 27TH STREET SACRAMENTO, CALIFORNIA 95822

(916) 395-4760 Scott Weavershi

NO.14	INSIDE FRAME DIMENSIONS (Inches)	INSIDE CURB DIMENSIONS (Inches)	DOWE TYPE AND MATERIAL	OVERALL DOME THICKNESS (inch)	DOME RISE (Inches)	PERFORMANCE GRADE (PG) (pat)	PRODUCT
600MD	63%* X 99%**	62%* x 99%*	Double Glazed Promatic Polycarbonate	Gedar/0.385 Inter: 0.125	17	43	5KP-PG40
801MD	63%* X 99%*	62%° x 98%°	Bouble Glacod Privitalic Acrylic	Outer/0.185 Innar: 0.120	1655*	35	5KP-P030
BOOMD	63%* X 95%*	62%*x'98%*	Triple Glazed Promotic Polyceborete	Culur 0.165 Two Inner: 0.125	t?*	45	SKP-P345
ROOMD	6314, X 8644.	62%* x 98%*	Triple Gazat Prinnet: Acryls	Outerd 165 Two inner 0.125	1805*	25	SKP.PGM
8005C	52%*30100%*	51%" x 97%"	Ocoble Blaned Prismetic Polynarboneter	Outec0.135 Inner: 6.125	157	35	2009-6-030
6005C	52%* X 100%*	5155° x 0752	Double Glazell Prismatic Acrosc	Outer:0.185 Inner: 0.125	197	60	\$67-PG10

TABLE 1--DIMENSIONAL DETAILS, PERFORMANCE GRADE AND REQUIRED FASTENER SPACING FOR PRISMATIC SICILIGHTS

The relation features must be #18 by 52-king thes head acress. The acress must not be spaced proper than 152 from the corners The mounting fasteriers must be #12 by 1%-long for eacher head screws. The screws must be asseed 12" o.c. and no closer than 3" from edge.

X Evaluation Research as not to be constrained to concretioning accilentics as any other addition of aper details addressed our are they to be constrained and the index of M @

installation instructions.

The manufactured Coronado Stone veneer described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

accordance with IBC Section 1405.10.1.4.3. Under the

IRC, a coat of Type S mortar, 1/2 inch to 3/4 inch thick (12.7

to 19.1 mm), is applied to the moistened scratch coat in

areas of approximately 10 square feet (0.929 m). The

combined thickness of the scratch coat and mortar setting

bed must be a minimum of $\frac{7}{8}$ inch (22 mm). As an

alternate to applying the mortar setting bed to the scratch

coat, the mortar setting bed may be applied to the back of

each piece of veneer and the veneer gently worked in

place over the scratch coat. The mortar bed consistency

must be such as to allow mortar to be squeezed around all

edges of the veneer unit to assure full bond. Joints

between veneer units must be grouted and tooled in

accordance with the veneer manufacturer's published

- 5.1 Installation must comply with this report, the manufacturer's published installation instructions and the applicable code. In the event there is a conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2 The use of the manufactured stone veneer has been evaluated for installation on walls with cement plaster or masonry backings.
- 5.3 Expansion or control joints used to limit the effect of differential movement of precast stone veneer supports must be specified by the architect, designer or veneer manufacturer, in that order. Consideration must also be given to movement caused by temperature change, shrinkage, creep and deflection.
- 5.4 In jurisdictions adopting the IBC, the supporting wall construction must be designed to support the weight of the veneer system, including veneer, setting bed and cement plaster backing, as applicable. Additionally, horizontal framing members, at wall openings such as lintels and headers, that support the precast stone veneer must be designed to limit deflection to 1/600 of the span of the supporting members.
- 5.5 In jurisdictions adopting the IRC, where the seismic provisions of IRC Section R301.2.2 apply, the average weight of the wall supporting the precast stone veneer, including the weight of the veneer system, must be determined. If the average weight exceeds the applicable limits of IRC Section R301.2.2.2.1, or for buildings in Seismic Design Category E, an engineered design of the wall construction must be performed in accordance with IRC Section R301.1.3.

6.0 EVIDENCE SUBMITTED 6.1 Data in accordance with the ICC-ES Acceptance

- Criteria for Precast Stone Veneer (AC51), dated June 2013 (editorially revised September 2014). 6.2 Data in accordance with ASTM E84 as an interior
- 7.0 IDENTIFICATION

finish.

7.1 Each package of veneer is labeled or stamped with the Coronado Stone Products name and address, the product name, the date of manufacture and the evaluation report number (ESR-2598).

Page 2 of 3

7.2 The report holder's contact information is the following: CORONADO STONE PRODUCTS 11191 CALABASH AVENUE FONTANA, CALIFORNIA 92337 (909) 357-8295

www.coronado.com 8.0 OTHER CODES

- 8.1 Evaluation Scope:
- In addition to the codes referenced in Section 1.0, the products described in this report were evaluated for compliance with the following codes
- 2012 International Building Code[®] (2012 IBC)
- 2012 International Residential Code[®] (2012 IRC)
- 2009 International Building Code[®] (2009 IBC)
- 2009 International Residential Code[®] (2009 IRC)
- 2006 International Building Code[®] (2006 IBC) 2006 International Residential Code[®] (2006 IRC)

The Coronado Stone products described in this report comply with, or are suitable alternatives to what is specified in, the codes listed above, subject to the provisions of Sections 8.2 through 8.7.

- 8.2 Uses:
- See Section 2.0. 8.3 Description:

See the first two paragraphs of Section 3.0 and the following: The veneer has a Class A finish rating in accordance with 2012 and 2009 IBC Section 803.1.1 (2006 IBC Section 803.1) and complies with the flame-spread and smoke-development requirements of 2012 and 2009 IRC Section R302.9 (2006 IRC Section R315).

8.4 Installation:

8.4.1 General: See Section 4.1, and the following: Under the 2012 IBC and 2012 IRC, the veneer must be installed in accordance with the clearance requirements of 2012 IBC Section 1405.10.1.3 and 2012 IRC Section R703.12.1, as applicable.

Page 3 of 3

8.4.2 Preparation of Backing:

8.4.2.1 Cement Plaster Backings: See Section 4.2.1. 8.4.2.1.1 Installation over Studs: See Section 4.2.1.1, except replace the first paragraph of Section 4.2.1.1 with the following: For exterior installations, the cement plaster backing must be installed over a water-resistive barrier complying with 2012 IBC Section 1405.10.1.1; 2009 and 2006 IBC Sections 1404.2 and 2510.6; or 2012, 2009 and 2006 IRC Sections R703.2 and R703.6.3, as applicable. Also, flashing must be installed as required by 2012 Sections 1405.4 and 1405.10.1.2; 2009 IBC Section 1405.4; 2006 IBC Section 1405.3; or 2012, 2009 and 2006 IRC Section R703.8, as applicable, and weep screeds must be installed at the bottom of the stone veneer. The weep screeds must comply with, and be installed in accordance with, 2012 IBC Section 1405.10.1.2; 2009 and 2006 IBC Section 2512.1.2; 2012 IRC Section R703.12.2; or 2009 and 2006 IRC Section R703.6.2.1, as applicable. In addition, the weep screeds must have holes with a minimum diameter of ³/₁₆ inch (4.8 mm) spaced at a maximum of 33 inches (838 mm) on center, as required by Section 6.1.6.2 of TMS 402-11, which is referenced in 2012 IBC Section 1405.10; Section 6.1.5.2 of TMS 402-08, which is referenced in 2009 IBC Section 1405.10; or

Section 6.1.5.2 of ACI 530-05, which is referenced in 2006 IBC Section 1405.9, as applicable. 8.4.2.1.2 Installation over Masonry: See Section 4.2.1.2.

- 8.4.2.2 Masonry Backing: See Section 4.2.2.
- 8.4.3 Application of Veneer Units: See Section 4.3.
- 8.5 Conditions of Use: See Section 5.0.
- 8.6 Evidence Submitted:
- See Section 6.0.
- 8.7 Identification:
- See Section 7.0
- TABLE 1-RECOGNIZED VENEER STYLES

3" Split Limestone	Eastern Mountain Ledge	Pro-Ledge
8" Classic Jerusalem	English Rubble	Quick Stack
Adobe Brick	Euro Villa	River Rock
Aegean Coral	Feathered Stone	Rocky Mountain Ledge
Appalachian Fieldstone	French Country Villa	Sand Canyon Flagstone
Belgian Brick	French Limestone	Santa Barbara
Belgian Castle	The Getty Stone	Sculptured Brick
Canyon Cobble	Idaho Drystack	Sierra Ledge
Canyon Ledge	Italian Villa	Smooth Limestone
Caribbean Coral	Lennox Stone	Split Fieldstone
Carolina Rubble	Minnesota Fieldstone	Tumbled Ledge
Chiseled Limestone	Montana Ledge	Tuscan Villa
Clinker Brick	Mountain Strip Stone	Valley Cobble
Colosseum Travertine	Mountain Villa	Venetian Villa
Coronado Honey Ledge	Old Country Ledge	Virginia Ledge
Coronado Strip Stone	Old World Ledge	Weathered Edge
Country Castle	Osage	Woodstone
Country Rubble	Pavilion Stone	Yukon Rubble
Creek Rock	Playa Vista Limestone	
Desert Ridge	Princeton Granite	

FIGURE 3-SUNOPTICS PRISMATIC SKYLIGHTS CURS MOUNT SKYLIGHT MODEL SHEC DOUBLE GLAZED DOWE

CC-ES Evaluation Report	ESR-3557 CBC and CRC Supplement
	Issued October 2019

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IVISION: 08 00 00-OPENINGS Section: 08 62 00-Unit Skylights

REPORT HOLDER:

ACUITY BRANDS LIGHTING DBA: SUNOPTICS PRISMATIC SKYLIGHTS

EVALUATION SUBJECT:

SUNOPTICS PRISMATIC SKYLIGHTS

1.8 REPORT PURPOSE AND SCOPE

The purpose of this evaluation report supplement is to indicate that Sunoptics Prismatic Skylights, recognized in ICC-ES main

evaluation report ESR-3557, have also been evaluated for compliance with the code(s) noted below. Applicable code edition/s):

2019 and 2016 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

· 2019 and 2016 California Residential Code (CRC) 2.0 CONCLUSIONS

2.1 CBC;

The Sunaplics Prismatic Skylights, described in Sections 2.0 through 7.0 of the main evaluation report ESR-3557, comply with CBC Chapters 24 and 26, provided the design and initialiation are in accordance with the 2018 and 2015 Informational Building Code® (IBC) provisions respectively, noted in the main report and the additional requirements of CBC Chapters 24 and 26, as applicable.

The products have not been evaluated under Chapter 7A for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area. 2.1.1 OSHPD:

The applicable OSHPD Sections of the CBC are beyond the scope of this supplement. 2.1.2 DSA:

The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

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The Sunoptics Prismatic Skylights, described in Sections 2.0 brough 7.0 of the main evaluation report ESR-3557, complies with CRC Chapter 3, provided the design and installation are in accordance with the 2018 and 2015 international Residential Code® (IRC) provisions respectively, noted in the main report.

The products have not been availuated under CRC Section R337 for use in the exterior design and construction of new buildings located in a Fire Hazard Sevenity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area. The products recognized in this supplement have not been evaluated for compliance with the international Wildland-Orban Interface Code This supplement expires concurrently with the evaluation report, reissued October 2019.

be construed as transmising sentirely to any affect aborhance or sport/kinds calify and, now are deep in con posieryment of the onlyre) of the expect or a recommendation (in the net. Dates or an increasely to OT. Exploration Service, CEE, express or sup-case). Nealing or other matter to the report, or at tecany product convert by the report.

TECHNICAL DATA

CORONADO

Coronado Stone is manufactured to meet or exceed specifications for all major code approvals. dependent testing confirms compliance with ICC-ES AC51 for Precast Stone Veneer. Always check your local building codes before installing stone.

MATERIALS:

- Cement ASTM C150 ASTM C144 or C33 - Sand ASTM C33 or C330 - Aggregate

TESTING: Tested in accordance with ASTM C482 - Shear Bond Test Greater than 50 psi - Water Absorption Tested in accordance with section 3.1.4 & 4.6 of ICC-ES AC51 Tested in accordance with ASTM C67 - Freeze / Thaw Less than 3% mass loss - Unit Weight Shipping weight is less than 15 lbs. per sq. ft. Density is determined in accordance with ASTM C567 - Compressive Strength Tested in accordance with ASTM C39 Greater than 1800 psi - Tensile Strength Tested in accordance with ASTM C190 - Flexural Strength Tested in accordance with ASTM C348 - Thermal Resistance Tested in accordance with ASTM 177-71

CORONADO

	Installation Specifications
	At www.CORONADO.com product specifications can be downloaded in CSI format.
	Choices Specific to Coronado Honey Ledge
Standard Colors:	Aspen, Carmel Mountain, Chablis, Four Rivers, Golden Harvest, Grey Quartzite, Palomino, Rocky Mountain Rundle, Shasta, Sioux Falls or Any Custom Color
Grout Joint Width:	Drystacked
Grouting Options:	Drystacked
Grout Joint Color:	Color should be added to mortar to complement stone color.
Accessories:	Corners, Complementary Tiles, Wall Caps, Post Caps and more. (See Accessories section of binder)
	Special Installation Notes
Pattern:	Do not install stones vertically. Blend the stone on the wall from several different boxes to ensure proper color and size variation. See catalog photos for recommended installation pattern.
Chalk Lines:	Should be used by installer to ensure a straight and level pattern.
Vertical Joints:	Should be no higher than 4" to 6" on average.
Horizontal Joints:	Should not exceed 6' to 8'.
Sealing:	Not required. However, if installed on an exterior exposed to excessive water from runoff or improper drainage, we suggest the product be sealed in that particular area to protect it from staining or spalling during freeze-thaw cycles.
Freeze-Thaw:	When installing stone in a freeze-thaw environment, extra care should be taken to ensure a full coverage of mortar on the back of each stone, which will prevent water pooling behind the stone after it's been installed.
Drystacked:	A polymer modified mortar should be used for all drystacked applications.
Installation Info:	Download Coronado's latest installation instructions at www.coronado.com for information on mortar and installation recommendations.
	Profile Properties
Size:	Coronado Honey Ledge is a combination of individual stones and panelized stones , which makes it easier to install and harder to detect the panels. Individual stone sizes range from 2" to 4" in height and up to 20" in length. There is a small percentage of larger individual stones, that range from 5" to 6" in height, not exceeding 10" in length. Stones sizes within the panels range from 1/2" to 4" in height. (All sizes are nominal).
Thickness:	Standard stones average 1". Optional stick-out stones range from 11/4" to 2"
Weight:	7 to 10 lbs. per square foot.
Packaging:	Available in big boxes (150 sq ft Flats & 100 lft Corners) or Dura-Paks (12.5 sq ft Flats & 12.5 lft Corners). When purchasing Coronado Honey Ledge, coverage is based on installation with tightly-fitted joints.
Drystacked	Drystacked
and a state	

HONEY LEDGE

COLOR: SIOUX FALLS HONEY LEDGE

COLOR: SHASTA

1 1/2" = 1'-0"

Scale

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EXTERIOR PLASTER O/ CORROSION RESISTANT
PLYWOOD SHEATHIN WHERE OCCURS, REF, STRUCT. DWGS.
BUILDING PAPER
VAPOR BARRIER PER DETAIL
MILCORE "J" BEAD
CONT. SEALANT
SHIM SPACE
 Ý
7 Window Header @ Plaster Wall 3" = 1'-0"
STEP 1
G G OPENING
SILL FLASHING (LAP
OVER SILL OPENING) - PROVIDE SOLID BACKING AT ALL AREAS WHERE SELF-ADHERED
- ATTACH SILL STRIP OF 12" WIDE SELF-ADHERED WATERPROOF MEMBRANE MATERIAL (LAP SILL STRIP OVER ROUGH SILL OPENING)
- EXTEND THIS STRIP AT LEAST 14" BEYOND THE EDGE OF THE ROUGH OPENING - ATTACH SELF-ADHERED WATERPROOF MEMBRANE WITH GALVANIZED
ROOFING NAILS OR CORROSION-RESISTANT STAPLES <u>STEP 3</u>
WINDOW - 2"
WINDOW FRAME OR SILL CONT. BEAD OF
CONT. BEAD OF SEALANT UNDER NAILING
CONT. BEAD OF SEALANT UNDER NAILING EIMENGE NAILING FLANGE
CONT. BEAD OF SEALANT UNDER NAILING ELMANGE NAILING FLANGE - APPLY A CONTINUOUS BEAD OF SEALANT TO THE BACK OF THE FRAME NAILING FLANGE
CONT. BEAD OF SEALANT UNDER NAILING EIMENGE NAILING FLANGE - APPLY A CONTINUOUS BEAD OF SEALANT TO THE BACK OF THE FRAME NAILING FLANGE - PLACE AND SECURE FRAME INTO ROUGH OPENING WITH FLANGES OVER THE INSTALLED JAMB AND SILL COMPOSITE FLEXIBLE FLASHING MATERIAL - APPLY A CONTINUOUS BEAD OF SEALANT TO THE FRONT FACE OF THE
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 CONT, BEAD OF SEALANT UNDER NAILING EINMORE - APPLY A CONTINUOUS BEAD OF SEALANT TO THE BACK OF THE FRAME NAILING FLANGE - PLACE AND SECURE FRAME INTO ROUGH OPENING WITH FLANGES OVER THE INSTALLED JAMB AND SILL COMPOSITE FLEXIBLE FLASHING MATERIAL - APPLY A CONTINUOUS BEAD OF SEALANT TO THE FRONT FACE OF THE HEAD NAILING FLANGE - ATTACH 12" WIDE STRIP OF COMPOSITE FLEXIBLE FLASHING MATERIAL OVER THE HEAD FLANGE - EXTEND THIS STRIP 2" BEYOND THE OUTER EDGE OF THE JAMB COMPOSITE FLEXIBLE FLASHING MATERIAL FOR THE HEAD FLANGE - EXTEND THIS STRIP 2" BEYOND THE OUTER EDGE OF THE JAMB COMPOSITE FLEXIBLE FLASHING MATERIAL FOR THEIBER BUILDING SYSTEM (800) 733-4777 1. OPENING THROUGH EXTERIOR PORTLAND CEMENT PLASTER WALLS: USE THE MOISTSTOP E-Z SEAL HIGH PERFORMANCE SELF-ADHESIVE FLASHING SYSTEM. OPENINGS THROUGH METAL SIDING: USE FORTIFLASH 40 IN AN SIMILAR TO THE LAYERING USED IN THE MOISTOP E-Z SEAL SYSTEM NOTE: - FLASHING OF ALL EXTERIOR OPENINGS EXPOSED TO WEATHER TO MAKE THEM FOR WINDOW FLASHING, TECHNIQUES SHOWN HERE ARE RECOMMENDED USE SELF-ADHERED WATERPROOF MEMBRANE BY WR. GRACE. CO:(OR EQUAL) WHENEVER POSSIBLE FOR FLASHING REQUIRED AS SHOWN IN THERE ARE RECOMMENDED USES SELF-ADHERED WATERPROOF MEMBRANE BY WR. GRACE. CO:(OR EQUAL) WHENEVER POSSIBLE FOR FLASHING REQUIRED AS SHOWN IN OTHER WINDOW DETAILS TO BE INSTALLED BY SHEET METAL CONTRACTOR. - ADDITIONAL MATERIALS & METAL HEAD FLASHING IDEPENDING ON THE SHEET WATERPROOFING. ETC. MAY OCCUR (DEPENDING ON THE

CERTIFICATE OF COMPLIANCE

GENERAL INFORMATION

01

02 03

04

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COMPLIANCE RESULTS

02

Project Name: Larry & Stella Madero Residence Calculation Description: Title-24

Calculation Date/Time: 2020-12-17T12:34:50-08:00 Input File Name: Stella Madero.ribd19

Standards Version 2019

Front Orientation (deg/ Cardinal) 180

Number of Dwelling Units 1

Fenestration Average U-factor 0.3

ADU Conditioned Floor Area n/a

Number of Bedrooms

Number of Stories 2

Glazing Percentage (%) 17.51%

Software Version CBECC-Res 2019.1.3

05

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CHEEDC

This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.

CF1R-PRF-01E (Page 1 of 12)

CERTIFICAT Project Nan

ENE	RGY DES
ALC: NO	Marine Provide
1: E	fficiencv
2: T	otal EDR
3: B	uilding o
•	Stand
•	Propo
	PV Sv

isible for, and cannot guarantee, the accuracy or completeness of the information contained	in this document.
Building Energy Efficiency Standards - 2019 Residential Compliance	Report Version: 2019.1.300
	Schema Version: rev 20200901

Project Name Larry & Stella Madero Residence

01 Building Complies with Computer Performance

Run Title Title-24

Project Location 1911 Arroyo Ave.

Zip code 92056

Building Type Single family

Project Scope NewConstruction

Climate Zone

Addition Cond. Floor Area (ft²) 0

Existing Cond. Floor Area (ft²) n/a

Total Cond. Floor Area (ft²) 2523

Is Natural Gas Available? Yes

ADU Bedroom Count n/a

03 This building incorporates one or more Special Features shown below

City OceanSide, CA

Registration Number: 420-P010163558A-000-000-0000000-0000 Registration Date/Time: 12/17/2020 12:36 HERS Provider: CHEERS

Report Generated: 2020-12-17 12:36:30

alculation Description	n: Title-24				Inp	ut File Nam	e: Ste	lla Madero.ribd1	9	50 00.00	(1050 1013	
UILDING - FEATURES IN	FORMATION			32								
01	02		03		04	4		05		06	07	
Project Name	Conditioned Floo	or Area (ft ²)	Number of Dwel Units	lling Number of Bedrooms			Nu	mber of Zones	Nu	umber of Ventilation Cooling Systems	Number of Water Heating Systems	
Larry & Stella Mader Residence	^{ro} 2523		1		4			2		0	1	
ONE INFORMATION	52										2	
01	01 02		03		04			05	06		07	
Zone Name	Zone Type	HVA	C System Name	Zon	e Floor Are	a (ft ²)	Avg.	Ceiling Height	Water Heating System 1		Water Heating System	
1st Floor	1st Floor Living				1706			8			DHW System 1	
2nd Floor	d Floor Sleeping			817				8			DHW System 1	
PAQUE SURFACES			H:				90					
01	02		03	04	-	05		06		07	08	
Name	Zone	Cons	truction	Azim	zimuth Orientat		on Gross Area (ft		t ²) Window and Door Area (ft2)		Tilt (deg)	
Left Wall	1st Floor	R15/4 E	terior Wall	27	0	Left	-	280	22		90	
Right Wall	1st Floor	R15/4 E	terior Wall	90)	Right		400		23.5	90	
Front Wall	1st Floor	R15/4 E	terior Wall	18	0	Front		480		108	90	
Rear Wall	1st Floor	R15/4 E	terior Wall	0	1	Back		480		170.4	90	
2nd Floor Left Wall	2nd Floor	R15/4 E	cterior Wall	27	0	Left		400		0	90	
2nd Floor Front Wall	2nd Floor	R15/4 E	terior Wall	18	0	Front		250		70	90	
2nd Floor Rear Wall	2nd Floor	R15/4 E	terior Wall	0		Back		250		78	90	
2nd Floor Right Wall	2nd Floor	R15/4 E	terior Wall	90)	Right		400		12	90	
First Floor Ceiling	1st Floor	R38	Ceiling	n/	a	n/a		889		n/a	n/a	
Garage Ceiling	Attached Garage	R0 ClgBl	wAttic Cons	n/	a	n/a		612		n/a	n/a	
Ceiling below attaic	2nd Floor	R38	Ceiling	n/	a	n/a		817		n/a	n/a	
loor Under 2nd Floor	2nd Floor	Inter	or Floor	n/	a	n/a		817		n/a	n/a	

Report Generated: 2020-12-17 12:36:30 CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.1.300 Schema Version: rev 20200901

CERTIFICATE OF COL							CE18-PRE-01F
Project Name: Larry	& Stella Madero Reside	ence		Calculation Date/Tim	(Page 7 of 12)		
Calculation Descript	ion: Title-24			Input File Name: Stel	la Madero.ribd19		
SLAB FLOORS	on su				us n		
01	02	03	04	05	06	07	08

UI	02	05	04	05	00	07	08	
Name	Zone	Area (ft ²)	Area (ft ²) Perimeter (ft)		Edge Insul. R-value and Depth	Carpeted Fraction	Heated	
Slab On Grade	1st Floor	1706	162	none	0	80%	No	
Garage Slab On Grade	Attached Garage	612	100	none	0	0%	No	

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
Garage Ext Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-0	None / None	0.347	Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x6 Exterior Finish: 3 Coat Stucco
R15/4 Exterior Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R S R-15	None / R-4	0.059	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x6 Sheathing / Insulation: R-4 Sheathing Exterior Finish: Synthetic Stucco
R-15 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-15	R-9 / R-11	0.031	Inside Finish: Gypsum Board Sheathing / Insulation: R-9 Sheathing Cavity / Frame: R-15 / 2x4 Sheathing / Insulation: R-11 Sheathing Exterior Finish: 3 Coat Stucco
Asphalt Shingle Roof	Attic Roofs	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O. C.	R-0	None / None	0.644	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4 Top Chrd
R0 ClgBlwAttic Cons	Ceilings (below attic)	Wood Framed Ceiling	2x4 Bottom Chord of Truss @ 24 in. O. C.	R-0	None / None	0.481	Cavity / Frame: no insul. / 2x4 Btm Chro Inside Finish: Gypsum Board

Report Version: 2019.1.300

Schema Version: rev 20200901

CA Building Energy Efficiency Standards - 2019 Residential Compliance

PRF-01E 7 of 12)

Registration Number: 420-P010163558A-000-000-0000000-0000 NOTICE: This document has been generated by ConSol Home Energy Efficiency Rating System Ser responsible for, and cannot guarantee, the accuracy or completeness of the information contained CA Building Energy Efficiency Standards - 2019 Residential Compliance

Report Generated: 2020-12-17 12:36:30

E OF COMPLIANCE				CF1R-PRF-0
ne: Larry & Stella Madero Residence		Calculation Date/Time: 2020-	-12-17T12:34:50-08:00	(Page 2 of 2
Description: Title-24		Input File Name: Stella Made	ro.ribd19	
IGN RATING				
	Energy	/ Design Ratings	Complianc	e Margins
	Efficiency ¹ (EDR)	Total ² (EDR)	Efficiency ¹ (EDR)	Total ² (EDR)
Standard Design	50	21.3		
Proposed Design	49.9	21.2	0.1	0.1
	RESUI	LT: ^{3:} COMPLIES		
EDR includes improvements to the building er includes efficiency and demand response mea omplies when efficiency and total compliance	ivelope and more efficient equipme isures such as photovoltaic (PV) sys margins are greater than <mark>o</mark> r equal t	ent tems and batteries to zero		
ard Design PV Capacity: 2.75 kWdc ised PV kWh output exceeds proposed electric stem resized to 2.75 kWdc (a factor of 0.905) t	ity use by 0.48% which may violate o achieve 'Standard Design PV' PV s	NEM rules. Contact local utility.		
	ENERGY	Y USE SUMMARY	35	
Energy Use (kTDV/ft ² -yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvemen
Space Heating	3.93	5.26	-1.33	-33.8
Space Cooling	2.13	1.47	0.66	31
IAQ Ventilation	2.65	2.65	0	0
Water Heating	10.54	9.71	0.83	7.9
Self Utilization/Flexibility Credit	n/a	0	0	n/a

19.25

Fan Efficacy Watts/CFM

HVAC Distribution System Verifications:

Heating System Verifications: -- None --

Registration Number:420-P010163558A-000-000-0000000-0000Registration Date/Time:12/17/202012:36HERS Provider:CHEERSNOTICE:This document has been generated by Consol Home Energy Efficiency Rating System Services, Inc.(CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is notresponsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document.Report Version:2019.1.300Report Generated:2020-12-1712:36:30

CERTIFICATE OF COMPLIANCE Project Name: Larry & Stella Madero Residence

Calculation Description: T	ïtle-24			Input	File Nan	ne: Stell	a Made	ro.ribd	19					
FENESTRATION / GLAZING														
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	
SFFW2	Window	2nd Floor Front Wall	Front	180	3	5	1	15	0.3	NFRC	0.23	NFRC	Bug Screen	
SFFW3	Window	2nd Floor Front Wall	Front	180	5	5	1	25	0.3	NFRC	0.23	NFRC	Bug Screen	
SRW1	Window	2nd Floor Rear Wall	Back	0	6	5	1	30	0.3	NFRC	0.23	NFRC	Bug Screen	
SRW2	Window	2nd Floor Rear Wall	Back	0	4	2	1	8	0.3	NFRC	0.23	NFRC	Bug Screen	
SFRD1	Window	2nd Floor Rear Wall	Back	0	5	8	1	40	0.3	NFRC	0.23	NFRC	Bug Screen	
SFRW1	Window	2nd Floor Right Wall	Right	90	2	2	1	4	0.3	NFRC	0.23	NFRC	Bug Screen	
SFRW2	Window	2nd Floor Right Wall	Right	90	2	2	1	4	0.3	NFRC	0.23	NFRC	Bug Screen	
SFRW3	Window	2nd Floor Right Wall	Right	90	2	2	1	4	0.3	NFRC	0.23	NFRC	Bug Screen	
FFLW2	Window	Left Wall	Left	270	4	2	1	8	0.3	NFRC	0.23	NFRC	Bug Screen	
FFLW3	Window	Left Wall	Left	270	4	2	1	8	0.3	NFRC	0.23	NFRC	Bug Screen	
FFBW2	Window	Rear Wall	Back	0	5	6	1	30	0.3	NFRC	0.23	NFRC	Bug Screen	
FFBW3	Window	Rear Wall	Back	0	3	6	1	18	0.3	NFRC	0.23	NFRC	Bug Screen	
Sliding Door-2	Window	Rear Wall	Back	0	2.8	8	1	22.4	0.3	NFRC	0.23	NFRC	Bug Screen	
OPAQUE DOORS				-										
01		02				0	3		88 <i>7</i> 7		C	4		
Name		Side of Buil	ding			Area	(ft ²)				U-fa	ictor		
Front Doo	r	Front Wa	all			4	2			0.5				
Garage Doo	or	Garage Front	t Wall			12	28			0.5				
Garage Input D)oor1	Garage Back	Wall			2	0				0	.5		
Garage Input D)oor2	Garage Back	. Wall			2	0			0.5				

Registration Number: 420-P010163558A-000-000-0000000-0000
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CA Building Energy Efficiency Standards - 2019 Residential Compliance

CERTIFICATE OF COMPLIANCE Project Name: Larry & Stella Madero Resid

roject Name: Larry & Stella Madero Residence
alculation Description: Title-24

WATER HEATERS			11			N							NO.		
01	02	03		04	05	06		07	08	09	10	11	Т	12	
Name	Heating Element Type	Tank Ty	pe u	# of Jnits	Tank Vol. (gal)	Energy Factor or Efficiency	Input or	Rating Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Hr. Rating or Flow Rate	NEEA Heat Brand or N	Pump Aodel	Tank Location or Ambient Condition	
Water Heater	Gas	Consum Instantane	er eous	1	0	0.9-UEF	200 Bto	1000- J/Hr	0	n/a	n/a	n/a		n/a	
WATER HEATING - HER	S VERIFICATIO	DN .				-	-	-							
01	02 0		03	ř.		04	M		05	06	5	07		08	
Name	Pipe Ins	ulation	Parallel	Piping	: (Compact <mark>Distri</mark> l	oution	Compact	Distribution Type	Recirculatio	on Control	Central DHW Distribution		Shower Drain Water Heat Recovery	
DHW System 1 - 1/1	Not Re	quired	Not Req	luired		Not Require	ed	1	None	Not Red	quired	Not Required		Not Required	
SPACE CONDITIONING	SYSTEMS														
	01						Y								
01		02		1	03	04		05	06	07	08	09	10	11	
01 Name		02 System Typ	e	Hea	03 ting Un Name	04 it Cooling Ur Name	nit I	05 Fan Name	06 Distribut Name	ion Thermo Type	08 ed stat Status	09 Verified Existing Condition	10 Heatir Equipm Coun	11 ng Cooling ent Equipment t Count	
01 Name HVAC System	Hea	02 System Typ ating and coolin other	e g system	Hea I H S	03 ting Un Name leating ystem	it Cooling Ur Name Cooling System	iit	05 Fan Name HVAC Fan System	06 Distribut Name Distribut System	ion 1 1 1 1 1 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7	08 stat Status ck New	09 Verified Existing Condition	10 Heatir Equipm Coun 1	11 ng Cooling Equipment t Count	
01 Name HVAC System HVAC - HEATING UNIT	Hea	02 System Typ and coolin other	e g system	Hea I H S	03 ting Un Name leating ystem	it Cooling Ur Name Cooling System	hit	05 Fan Name HVAC Fan System	06 Distribut Name Distribut System	ion 1 1 1 1 1 1 1 1 0 7 7 7 7 7 7 7 7 7 7 7	08 stat Status ck New	09 Verified Existing Condition NA	10 Heatir Equipm Coun 1	11 ng Cooling Equipment t Count 1	
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CA Building Energy Efficiency Standards - 2019 Residential Compliance

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CA building thereby thickness standards - 2019 Residential compliance	Schema Version: rev 20200901	

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CERTIFICATE OF COM	IPLIANCI														CF1R-PRF-0
Project Name: Larry &	& Stella I	Madero Residenc	e		Ca	alcula	ation Da	ate/Tim	e: 2020	-12-171	12:34:50-0	08:00			(Page 5 of 1
Calculation Description	on: Title	-24			In	put F	File Nan	ne: Stel	la Made	ero.ribd	19				
OPAQUE SURFACES				9 1072	//	a. M		18							
01		02	03	04			05			06		07			08
Name		Zone	Construction	Azimut	h	Orientatio		on	Gross Area (ft ²)		t ²) V	²) Window and Doo Area (ft2)			ilt (deg)
Garage Left Wall	Atta	ched Garage	ge Garage Ext Wall				Left			200		16		90	
GArage Right Wall	Atta	iched Garage	Garage Ext Wall	90		Right				200		16		90	
Garage Front Wall	Atta	iched Garage	Garage Ext Wall	180		5.	Front		250			128		2	90
Garage Back Wall	Atta	iched Garage	R-15 Wall	0		Back			250			40			90
ATTIC											÷.				
01		02	03	04	17		05			06		07		08	
Name	Co	onstruction	Туре	Roof Rise (x	in 12)	Roof Reflecta		tance	Roof	Emittan	ce	Radiant Barrier		C	ool Roof
Attic	Aspha	It Shingle Roof	Ventilated	- 5		-	0.1			0.85		Yes			No
FENESTRATION / GLAZI	ING					-								x	
01	- 1	02	03	04	05	5	06	07	08	09	10	11	12	13	14
Name		Type	Surface		Azim	uth	Width	Height	Mult.	Area	U-factor	U-factor	SHGC	SHGC	Exterior

.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	G	H IC		(ft)	(ft)	, main	(ft ²)	o lactor	Source	Shide	e	Shading
Window	Left Wall	Left	270	2	3	1	6	0.3	NFRC	0.23	NFRC	Bug Screen
Window	Right Wall	Right	90	2	3	1	6	0.3	NFRC	0.23	NFRC	Bug Screen
Window	Right Wall	Right	90	5	3.5	1	17.5	0.3	NFRC	0.23	NFRC	Bug Screen
Window	Front Wall	Front	180	6	6	1	36	0.3	NFRC	0.23	NFRC	Bug Screen
Window	Front Wall	Front	180	5	6	1	30	0.3	NFRC	0.23	NFRC	Bug Screen
Window	Rear Wall	Back	0	4	5	1	20	0.3	NFRC	0.23	NFRC	Bug Screen
Window	Rear Wall	Back	0	10	8	1	80	0.3	NFRC	0.23	NFRC	Bug Screen
Window	Garage Left Wall	Left	270	4	2	1	8	0.3	NFRC	0.23	NFRC	Bug Screen
Window	Garage Left Wall	Left	270	4	2	1	8	0.3	NFRC	0.23	NFRC	Bug Screen
Window	GArage Right Wall	Right	90	4	2	1	8	0.3	NFRC	0.23	NFRC	Bug Screen
Window	GArage Right Wall	Right	90	4	2	1	8	0.3	NFRC	0.23	NFRC	Bug Screen
Window	2nd Floor Front Wall	Front	180	6	5	1	30	0.3	NFRC	0.23	NFRC	Bug Screen
	Window	WindowLeft WallWindowRight WallWindowRight WallWindowFront WallWindowFront WallWindowRear WallWindowRear WallWindowGarage Left WallWindowGarage Left WallWindowGarage Left WallWindowGarage Right WallWindowGArage Right WallWindowGArage Right WallWindowGArage Right WallWindowSArage Right WallWindowSArage Right WallWindowSArage Right Wall	WindowLeft WallLeftWindowRight WallRightWindowRight WallRightWindowFront WallFrontWindowFront WallFrontWindowRear WallBackWindowRear WallBackWindowGarage Left WallLeftWindowGarage Left WallLeftWindowGarage Right WallRightWindowGarage Right WallRightWindowGArage Right WallRightWindowGArage Right WallRightWindow2nd Floor Front WallFront	WindowLeft WallLeft270WindowRight WallRight90WindowRight WallRight90WindowRight WallRight90WindowFront WallFront180WindowFront WallFront180WindowRear WallBack0WindowRear WallBack0WindowGarage Left WallLeft270WindowGArage Right WallRight90WindowGArage Right WallRight90WindowZArage Right WallRight90Window2nd Floor Front WallFront180	TypeDefinitionType	TypeDefinitionOffender(ft)(ft)WindowLeft WallLeft27023WindowRight WallRight9023WindowRight WallRight9053.5WindowFront WallFront18066WindowFront WallFront18056WindowRear WallBack045WindowRear WallBack0108WindowGarage Left WallLeft27042WindowGarage Left WallRight9042WindowGArage Right WallRight9042WindowQarage Right WallRight9042Wind	WindowLeft WallLeft270231WindowRight WallRight90231WindowRight WallRight9053.51WindowRight WallRight9053.51WindowFront WallFront180661WindowFront WallFront180561WindowRear WallBack0451WindowRear WallBack01081WindowGarage Left WallLeft270421WindowGArage Right WallRight90421WindowGArage Right WallRight90421WindowZand Floor Front WallFront180651	TypeTypeThe field of the field of th	NypeAndreaseAndreaseAndrease(ft)(ft)Mark(ft²)ProtectWindowLeft WallLeft27023160.3WindowRight WallRight90231160.3WindowRight WallRight9053.5117.50.3WindowFront WallFront180661360.3WindowFront WallFront180561300.3WindowRear 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WallRight9023160.3NFRC0.23WindowRight WallRight9053.5117.50.3NFRC0.23WindowRight WallRight9053.5117.50.3NFRC0.23WindowFront WallFront180661360.3NFRC0.23WindowFront WallFront180561300.3NFRC0.23WindowRear WallBack0451200.3NFRC0.23WindowGarage Left WallLeft27042180.3NFRC0.23WindowGarage Left WallLeft27042180.3NFRC0.23WindowGarage Left WallLeft27042180.3NFRC0.23WindowGarage Right WallRight9042180.3NFRC0.23WindowGArage Right WallRight9042180.3NFRC0.23WindowGArage Right WallRight9042180.3NFRC0.23WindowGArage Right WallRight9042</td><td>TypeTypeTypeTypeTypeTypeTypeTypeSourceSourceTypeTypeWindowLeft WallLeft27023160.3NFRC0.23NFRCWindowRight WallRight9023160.3NFRC0.23NFRCWindowRight WallRight9053.5117.50.3NFRC0.23NFRCWindowFront WallFront180661360.3NFRC0.23NFRCWindowFront WallFront180561300.3NFRC0.23NFRCWindowRear WallBack0451200.3NFRC0.23NFRCWindowRear WallBack01081800.3NFRC0.23NFRCWindowGarage Left WallLeft27042180.3NFRC0.23NFRCWindowGarage Left WallLeft27042180.3NFRC0.23NFRCWindowGarage Left 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WallBack0451200.3NFRC0.23NFRCWindowRear WallBack01081800.3NFRC0.23NFRCWindowGarage Left WallLeft27042180.3NFRC0.23NFRCWindowGarage Left WallLeft27042180.3NFRC0.23NFRCWindowGarage Left WallLeft27042180.3NFRC0.23NFRCWindowGarage Left WallLeft27042180.3NFRC0.23NFRCWindowGarage Left WallLeft27042 <t< td=""></t<>

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 CA Building Energy Efficiency Standards - 2019 Residential Compliance
 Report Version:
 2019.1.300
 Report Generated:
 2020-12-17
 12:36:30

 Schema Version: rev 20200901

CERTIFICATE OF COM	PLIANCE							CF1R-PRF-01	
Project Name: Larry 8	k Stella Madero Residen	ce	Calc	ulation Date/Ti	me: 2020-12-17T12	2:34:50-08	:00	(Page 8 of 12	
Calculation Description	on: Title-24		Inpu	t File Name: Ste	ella Madero.ribd19				
OPAQUE SURFACE CON	STRUCTIONS				5				
01	02	03	04	05	06	07		08	
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Asse	mbly Layers	
R38 Ceiling	Ceilings (below attic)	Wood Framed Ceiling	2x12 @ 16 in. O. C.	R-38	None / None	0.028	Over Ceiling Cavity / Frame: I Inside Fini	g Joists: R-7.7 insul. R-38 in 11-1/4 in. (R-37) / 2x12 sh: Gypsum Board	
Interior Floor	nterior Floor Interior Floors Wood Framed Floor		2x6 @ 16 in. O. C.	R-0	None / None 0.199		Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x6 Ceiling Below Finish: Gypsum Board		
					feat fa				
BOILDING ENVELOPE - P	1	02			03		7	04	
Ouality Insulation	Installation (OII)	High R-value Sprav F	pam Insulation	Building Enve	lope Air Leakage		CEM50		
Not Required		Not Required		Not Required			n/a		
WATER HEATING SYSTE	MS		Te di me i me	1.41		10401			
01	02	03	04	1	05	1	06	07	
Name	System Type	Distribution Type	Water Heater Na	me (#) 5	olar Heating System	Compa	act Distribution	HERS Verification	
DHW System 1	Domestic Hot Water (DHW)	Standard Distribution System	Water Heater	(1)	n/a		None	n/a	
			317/						

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Compliance Energy Total

CERTIFICATE OF COMPLIANCE 01E 12)

Project Name: Larry & Stella Madero Residence Calculation Description: Title-24

REQUIRED PV SYSTE	MS - SIMPLIFIED	10	10 ⁻	
01	02	03	04	
DC System Size (kWdc)	Exception	Module Type	Array Type	100
2.75	NA	Standard	Fixed	
REQUIRED SPECIAL I	FEATURES			
The following are fea	atures that must be i	installed as condition fo	r meeting the mod	elec
 Zonal heating 	controls			
 PV System: 2. 	75 kWdc			
 Ceiling has hij 	gh level of insulation			-
HERS FEATURE SUM	MARY			
The following is a su detail is provided in	mmary of the featur the buildng tables be	es that must be field-ve elow. Registered CF2Rs :	rified by a certified and CF3Rs are requ	l HE Jirec
Building-level Verific	ations:		CI	1
 Indoor air qua 	ality ventilation		Cr	٦.
Kitchen range	hood			
Cooling System Veril	lications:			
 iviinimum Airi 	now			

CE1R-PRE-01E

CE1P. DDE.01E

	05	06	07	08	09	10	11	12
,	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
	none	false	170	Degre es	22.62	5	96	100
		540 2 4 10 16 16 1	ting the med	alad anar	ev performance	for this com	nuter analysis	Additional

Calculation Date/Time: 2020-12-17T12:34:50-08:00

Schema Version: rev 20200901

CF1R-PRF-01E

(Page 6 of 12)

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> CF1R-PRF-01E Calculation Date/Time: 2020-12-17T12:34:50-08:00 (Page 9 of 12) Input File Name: Stella Madero ribd19

Registration Number: 420-P010163558A-000-000-0000000-0000 Registration Date/Time: 12/17/2020 12:36 HERS Provider: CHEERS NOTICE: This document has been generated by ConSol Home Energy Efficiency Rating System Services, Inc. (CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document. Report Version: 2019.1.300 Report Generated: 2020-12-17 12:36:30 Schema Version: rev 20200901

PREPARED BY:

Scale

Project Name: Larr Calculation Descrip	VIPLIANCE y & Stella Madero Res tion: Title-24	idence			Calcu Input	lation Date/ File Name:	/Time: 2020 Stella Made	-12-17T12:34:50-0 rro.ribd19	8:00		(Page 10 of 12)	CERTIFICATE OF COMPLIAN Project Name: Larry & Stel	ICE la M
HVAC - COOLING UN	T TYPES											Calculation Description: Tit	de-2
01	02	03		04		05		06	07		08	IAQ (INDOOR AIR QUALITY) F	ANS
Name	System Type	Number of Ur	nits Effi	ciency EER/	CEER E	fficiency SEER	Zonal	lly Controlled	Mulit-spe Compres	sor H	IERS Verification	01	T
Cooling System	Central split AC	1		11.7		14	Zonal	lly Controlled	Multi-spe	eed	Cooling System -hers-cool	Dwelling Unit	
HVAC - DISTRIBUTIO	N SYSTEMS		1			A	18			-		SFam IAQVentRpt	
01	02	03	04	05	06	07	08	09	10	11	12		
			Duct Ins	. R-value	Duct Lo	ocation	Surf	face Area					
Name	Туре	Design Type	Supply	Return	Supply	Return	Supply	Return	Bypass Duct	Duct Leakag	ge HERS Verification		
Distribution System 1	Unconditioned attic	Non-Verified	R-6	R-6	Attic	Attic	n/a	n/a	No Bypass Duct	Sealed and Tested	Distribution System 1-hers-dist		
HVAC DISTRIBUTION	- HERS VERIFICATION			15	~	1			15	.1			
01	02	03	04	HE	05	RS	06	07		08	09		
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified I Locatio	Duct	Verified Duct Design	t Buri	ed Ducts	Deeply Buried Ducts	Low-le Ha	akage Air ndler	Low Leakage Ducts Entirely in Conditioned Space		
Distribution System 1-hers-dist	Yes	5.0	Not Requ	ired	Not Required	l Not	Required	Credit not taken	Not R	equired	No		
HVAC FAN SYSTEMS	HERS VERIFICATION												
	01	3			02					03			
	Name			Verif	ied Fan Watt	Draw		Requ	ired Fan Eff	icacy (Watts/	CFM)		
H	AC Fan System -hers-fan				Required				1	0.2			

Registration Number: 420-P010163558A-000-000-0000000-0000Registration Date/Time: 12/17/2020 12:36HERS Provider: CHEERSNOTICE: This document has been generated by ConSol Home Energy Efficiency Rating System Services, Inc. (CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not
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2019 Low-Rise Residential Mandatory Measures Summary

used. Review the ((01/2020)	isidential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach respective section for more information. *Exceptions may apply.
Building Envelop	e Measures:
§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283 or AAMA/WDMA/CSA 101/I.S.2/A440-2011.*
§ 110.6(a)5:	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
\$ 110 G(b):	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables
§ 110.6(b): § 110.7:	110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped." Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, acketed, or weather stripped.
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(a):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs
§ 150.0(a):	Ceiling and Rafter Roof Insulation. Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a continuous roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.*
§ 150.0(b):	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B.*
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor."
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to § 150.0(d).
§ 150.0(g)2:	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58.
Fireplaces, Deco	rative Gas Appliances, and Gas Log Measures:
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)2:	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device."
§ 150.0(e)3:	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control."
Space Conditioni	ing, Water Heating, and Plumbing System Measures:
§ 110.0-§ 110.3:	Certification. Heating, ventilation and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission."
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-K.*
§ 110.2(b):	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.
§ 110.2(c):	Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat."
§ 110.3(c)4:	Water Heating Recirculation Loops Serving Multiple Dwelling Units. Water heating recirculation loops serving multiple dwelling units must meet the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § 110.3(c)4.
§ 110.3(c)6:	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and spa heaters.
§ 150.0(h)1:	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual: or the ACCA Manual Jusing design conditions specified in § 150.0(h)2

	2019 Low-Rise Residential Ma
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing
§ 150.0(h)3B:	Liquid Line Drier. Air conditioners and heat pump systems mus manufacturer's instructions.
§ 150.0(j)1:	Storage Tank Insulation. Unfired hot water tanks, such as stora a minimum of R-12 external insulation or R-16 internal insulation
§ 150.0(j)2A:	Water Piping, Solar Water-heating System Piping, and Space be insulated as specified in Section 609.11 of the California Plun insulation wall thickness of one inch or a minimum insulation R-v water piping with a nominal diameter equal to or greater than 3/4 than 3/4 inch that is: associated with a domestic hot water recircu buried below grade, and from the heating source to kitchen fixtur
§ 150.0(j)3:	Insulation Protection. Piping insulation must be protected from wind as required by Section 120.3(b). Insulation exposed to wea Insulation covering chilled water piping and refrigerant suction pi Class I or Class II vapor retarder. Pipe insulation buried below gr
§ 150.0(n)1:	Gas or Propane Water Heating Systems. Systems using gas of the following: A dedicated 125 volt, 20 amp electrical receptacle copper branch circuit, within three feet of the water heater withou word "spare" and be electrically isolated. Have a reserved single for the branch circuit and labeled with the words "Future 240V Us outside termination and the space where the water heater is inst of the water heater, and allows natural draining without pump as:
§ 150.0(n)2:	Recirculating Loops. Recirculating loops serving multiple dwell
§ 150.0(n)3:	Solar Water-heating Systems. Solar water-heating systems and Corporation (SRCC), the International Association of Plumbing a agency that is approved by the Executive Director.
Ducts and Fans	Measures:
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duc contractor installs the insulation, the contractor must certify to the
§ 150.0(m)1:	CMC Compliance. All air-distribution system ducts and plenums and ANSI/SMACNA-006-2006 HVAC Duct Construction Standard plenums must be insulated to a minimum installed level of R-6.0 space as confirmed through field verification and diagnostic testi surrounded by directly conditioned space are not required to be i mechanically fastened. Openings must be sealed with mastic, ta 181, UL 181A, or UL 181B or aerosol sealant that meets the required, the combination of mastic and either mesh or tape must be designed or constructed with materials other than sealed sheet in Building cavities and support platforms may contain ducts. Ducts reductions in the cross-sectional area."
§ 150.0(m)2:	Factory-Fabricated Duct Systems. Factory-fabricated duct sys connections, and closures; joints and seams of duct systems and tapes unless such tape is used in combination with mastic and d
§ 150.0(m)3:	Field-Fabricated Duct Systems. Field-fabricated duct systems mastics, sealants, and other requirements specified for duct cons
§ 150.0(m)7:	Backdraft Damper. Fan systems that exchange air between the
§ 150.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating systems servin manually operated dampers in all openings to the outside, excep
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected from dan to weather must be suitable for outdoor service. For example, pri foam insulation must be protected as above or painted with a con-
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner core flex ducts mus
§ 150.0(m)11:	Duct System Sealing and Leakage Test. When space conditio occupiable space, the ducts must be sealed and duct leakage te accordance with § 150.0(m)11 and Reference Residential Apper
§ 150.0(m)12:	Air Filtration. Space conditioning systems with ducts exceeding equivalent filters. Filters for space conditioning systems must hav drops and labeling must meet the requirements in §150.0(m)12.
§ 150.0(m)13:	Space Conditioning System Airflow Rate and Fan Efficacy. S for the placement of a static pressure probe, or a permanently in per ton of nominal cooling capacity, and an air-handling unit fan CFM for all others. Small duct high velocity systems must provid unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing i

FICATE OF COMPLIANCE

t Name: Larry & Stella Madero Residence

02

IAQ CFM

111

03

IAQ Watts/CFM

0.25

CHEERS

Report Version: 2019.1.300

Schema Version: rev 20200901

ation Description: Title-24

Calculation Date/Time: 2020-12-17T12:34:50-08:00 Input File Name: Stella Madero.ribd19

05

0

04

IAQ Fan Type

Default

CF1R-PRF-01E (Page 11 of 12)

06

IAQ Recovery Effectiveness -

- SRE

n/a

Q Recovery Effectiveness (%) SREIAQ Recovery Effectivenes

Report Generated: 2020-12-17 12:36:30

CERTIFICATE OF COMPLIANCE

Project Name: Larry & Stella Madero Residence Calculation Description: Title-24

DOCUN	IENTATION AUTHOR'S DECLARATION STATEMENT
1. I certi	fy that this Certificate of Compliance documentation is accura
Documer Kouros	ntation Author Name: h A. Sharifabad
Company Bluebe	rry Inc
Address: 38 Pem	berly
City/State Missior	e/Zip: n viejo, CA 92692
RESPON	SIBLE PERSON'S DECLARATION STATEMENT
I certify t 1. 2. 3.	he following under penalty of perjury, under the laws of the State of C I am eligible under Division 3 of the Business and Professions Code I certify that the energy features and performance specifications id The building design features or system design features identified or calculations, plans and specifications submitted to the enforcemen
Responsi Kouros	ble Designer Name: h A. Sharifabad
Company Bluebe	rry Inc
Address: 38 Pem	berly
City/State Missior	e/Zip: n viejo, CA 92692

Registration Number: 420-P010163558A-000-000-0000000-0000 NOTICE: This document has been generated by ConSol Home Energy Efficiency R responsible for, and cannot guarantee, the accuracy or completeness of the inform CA Building Energy Efficiency Standards - 2019 Residential Compl

andatory Measures Summary

g units must have a clearance of at least five feet from the outlet of any dryer t be equipped with liquid line filter driers if required, as specified by the rage tanks and backup storage tanks for solar water-heating systems, must have n where the internal insulation R-value is indicated on the exterior of the tank. ce Conditioning System Line Insulation. All domestic hot water piping must mbing Code. In addition, the following piping conditions must have a minimum value of 7.7: the first five feet of cold water pipes from the storage tank; all hot 1/4 inch and less than one inch; all hot water piping with a nominal diameter less rculation system, from the heating source to storage tank or between tanks, m damage, including that due to sunlight, moisture, equipment maintenance, and eather must be water retardant and protected from UV light (no adhesive tapes). biping located outside the conditioned space must include, or be protected by, a grade must be installed in a waterproof and non-crushable casing or sleeve. or propane water heaters to serve individual dwelling units must include all of e connected to the electric panel with a 120/240 volt 3 conductor, 10 AWG out obstruction. Both ends of the unused conductor must be labeled with the le pole circuit breaker space in the electrical panel adjacent to the circuit breaker Use"; a Category III or IV vent, or a Type B vent with straight pipe between the stalled; a condensate drain that is no more than two inches higher than the base ssistance; and a gas supply line with a capacity of at least 200,000 Btu per hour. lling units must meet the requirements of § 110.3(c)5. nd collectors must be certified and rated by the Solar Rating and Certification and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing ict must comply with § 604.0 of the California Mechanical Code (CMC). If a he customer, in writing, that the insulation meets this requirement. Is must meet the requirements of the CMC §§ 601.0, 602.0, 603.0, 604.0, 605.0 ards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and 0 or a minimum installed level of R-4.2 when ducts are entirely in conditioned ting (RA3.1.4.3.8). Portions of the duct system completely exposed and insulated. Connections of metal ducts and inner core of flexible ducts must be tape, or other duct-closure system that meets the applicable requirements of UL equirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 be used. Building cavities, support platforms for air handlers, and plenums t metal, duct board or flexible duct must not be used to convey conditioned air. ts installed in cavities and support platforms must not be compressed to cause stems must comply with applicable requirements for duct construction, nd their components must not be sealed with cloth back rubber adhesive duct draw bands. s must comply with applicable requirements for: pressure-sensitive tapes, nstruction. e conditioned space and outdoors must have backdraft or automatic dampers. ving conditioned space must have either automatic or readily accessible, t combustion inlet and outlet air openings and elevator shaft vents. mage, sunlight, moisture, equipment maintenance, and wind. Insulation expose rotected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular pating that is water retardant and provides shielding from solar radiation. st have a non-porous layer between the inner core and outer vapor barrier. oning systems use forced air duct systems to supply conditioned air to an ested, as confirmed through field verification and diagnostic testing, in endix RA3. g 10 feet and the supply side of ventilation systems must have MERV 13 or ave a two inch depth or can be one inch if sized per Equation 150.0-A. Pressure . Filters must be accessible for regular service.*

Space conditioning systems that use ducts to supply cooling must have a hole nstalled static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM n efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per ide an airflow \geq 250 CFM per ton of nominal cooling capacity, and an air-handling is required in accordance with Reference Residential Appendix RA3.3.*

2019 Low-Rise Residential Mandatory Measures Summary

riequiremente i	Dequirements for Ventilation and Indeer Air Quality. All dwalling units must meet the requirements of ASHDAE Standard 62.2. Ventilation
§ 150.0(o)1:	and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.
§ 150.0(o)1C:	Single Family Detached Dwelling Units. Single family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow provided at rates determined by ASHRAE 62.2 Sections 4.1.1 and 4.1.2 and as specified in § 150.0(o)1C.
§ 150.0(o)1E:	Multifamily Attached Dwelling Units. Multifamily attached dwelling units must have mechanical ventilation airflow provided at rates in accordance with Equation 150.0-B and must be either a balanced system or continuous supply or continuous exhaust system. If a balanced system is not used, all units in the building must use the same system type and the dwelling-unit envelope leakage must be ≤ 0.3 CFM at 50 Pa (0.2 inch water) per square foot of dwelling unit envelope surface area and verified in accordance with Reference Residential Appendix RA3.8.
§ 150.0(o)1F:	Multifamily Building Central Ventilation Systems. Central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow for each dwelling unit served at a rate equal to or greater than the rate specified by Equation 150.0-B. All unit airflows must be within 20 percent of the unit with the lowest airflow rate as it relates to the individual unit's minimum required airflow rate needed for compliance
§ 150.0(o)1G: § 150.0(o)2:	Kitchen Range Hoods. Kitchen range hoods must be rated for sound in accordance with Section 7.2 of ASHRAE 62.2. Field Verification and Diagnostic Testing. Dwelling unit ventilation airflow must be verified in accordance with Reference Residential Appendix RA3.7. A kitchen range hood must be verified in accordance with Reference Residential Appendix RA3.7.4.3 to confirm it is
	rated by HVI to comply with the airflow rates and sound requirements as specified in Section 5 and 7.2 of ASHRAE 62.2.
Pool and Spa S	/stems and Equipment Measures:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa neating system or equipment must be certified to have all of the following: a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.'
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flor rate, piping, filters, and valves.*
Lighting Measu	res:
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.*
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A.
§ 150.0(k)1B:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or fan speed control.
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC) labeling; air leakage; sealing; maintenance; and socket and light source as described in § 150.0(k)1C.
§ 150.0(k)1D:	Electronic Ballasts for Fluorescent Lamps. Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than 20 kHz.
§ 150.0(k)1E:	Night Lights, Step Lights, and Path Lights. Night lights, step lights and path lights are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided they are rated to consume no more than 5 watts of power and emit no more than 150 lumens.
§ 150.0(k)1F:	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).*
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*
§ 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1l:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit n more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems.*
§ 150.0(k)2C:	Interior Switches and Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned ON and OFF.*
§ 150.0(k)2D:	Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions.
10: 01: 01: 01: 01: 01: 01: 01: 01: 01:	Interior Switches and Controls, Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the control is installed to
§ 150.0(k)2E:	comply with § 150.0(k).

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accurate and complete.	
	Documentation Author Signature: Kowosh A. Shavifabad
	Signature Date: 12/17/2020
	CEA/ HERS Certification Identification (If applicable):
	Phone: (949) 945-9614
ions identified on this Certific ified on this Certificate of Con cement agency for approval w	Ite of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. Ipliance are consistent with the information provided on other applicable compliance documents, worksheets, ith this building permit application.
ified on this Certificate of Con cement agency for approval w	pliance are consistent with the information provided on other applicable compliance documents, worksheets, ith this building permit application. Responsible Designer Signature:
	Kourosh A. Sharifabad
CHI	Date Signed: 12/17/2020
	License: E20068
	Phone: (949) 945-9614

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	2019 Low-Rise Residential Mandatory Measures Summary
Ir	nterior Switches and Controls. An energy management control system (EMCS) may be used to comply with control requirements if it:

§ 150.0(k)2G:	provides functionality of the specified control according to § 110.9; meets the Installation Certificate requirements of § 130.4; meets the EMCS requirements of § 130.0(e); and meets all other requirements in § 150.0(k)2.
§ 150.0(k)2H:	Interior Switches and Controls. A multiscene programmable controller may be used to comply with dimmer requirements in § 150.0(k) if it provides the functionality of a dimmer according to § 110.9, and complex with all other applicable coupling parts in § 150.0(k)?
§ 150.0(k)2I:	Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces must be controlled by an occupant sensor or a vacancy sensor providing automatic-off functionality. If an occupant sensor is installed, it must be initially configured to manual-on operation using the manual control required under Section 150.0(k)2C.
§ 150.0(k)2J:	Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joint Appendix JA8 requirements for dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls."
§ 150.0(k)2K:	Interior Switches and Controls. Under cabinet lighting must be controlled separately from ceiling-installed lighting systems.
§ 150.0(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must meet the requirement in item § 150.0(k)3Ai (ON and OFF switch) and the requirements in either § 150.0(k)3Aii (photocell and either a motion sensor or automatic time switch control) or § 150.0(k)3Aii (astronomical time clock), or an EMCS.
§ 150.0(k)3B:	Residential Outdoor Lighting. For low-rise residential buildings with four or more dwelling units, outdoor lighting for private patios, entrances, balconies, and porches; and residential parking lots and carports with less than eight vehicles per site must comply with either § 150.0(k)3A or with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
§ 150.0(k)3C:	Residential Outdoor Lighting. For low-rise residential buildings with four or more dwelling units, any outdoor lighting for residential parking lots or carports with a total of eight or more vehicles per site and any outdoor lighting not regulated by § 150.0(k)3B or § 150.0(k)3D must comply with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
§ 150.0(k)4:	Internally illuminated address signs. Internally illuminated address signs must comply with § 140.8; or must consume no more than 5 watts of power as determined according to § 130.0(c).
§ 150.0(k)5:	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in Sections 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
§ 150.0(k)6A:	Interior Common Areas of Low-rise Multifamily Residential Buildings. In a low-rise multifamily residential building where the total interior common area in a single building equals 20 percent or less of the floor area, permanently installed lighting for the interior common areas in that building must be comply with Table 150.0-A and be controlled by an occupant sensor.
§ 150.0(k)6B:	Interior Common Areas of Low-rise Multifamily Residential Buildings. In a low-rise multifamily residential building where the total interior common area in a single building equals more than 20 percent of the floor area, permanently installed lighting for the interior common areas in that building must: i. Comply with the applicable requirements in Sections 110.9, 130.0, 130.1, 140.6 and 141.0; and ii. Lighting installed in corridors and stairwells must be controlled by occupant sensors that reduce the lighting power in each space by at least 50 percent. The occupant sensors must be capable of turning the light fully on and off from all designed paths of ingress and egress.
Solar Ready Bui	ldings:
§ 110.10(a)1:	Single Family Residences. Single family residences located in subdivisions with 10 or more single family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b) through § 110.10(e).
§ 110.10(a)2:	Low-rise Multifamily Buildings. Low-rise multi-family buildings that do not have a photovoltaic system installed must comply with the requirements of § 110.10(b) through § 110.10(d).
§ 110.10(b)1:	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. For low-rise multi-family buildings the solar zone must be located on the roof or overhang of the building, or on the roof or overhang of another structure located within 250 feet of the building, or on covered parking installed with the building project, and have a total area no less than 15 percent of the total roof area of the building any skylight area. The solar zone requirement is applicable to the entire building, including mixed occupancy."
§ 110.10(b)2:	Azimuth. All sections of the solar zone located on steep-sloped roofs must be oriented between 90 degrees and 300 degrees of true north.
§ 110.10(b)3A:	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.*
§ 110.10(b)3B:	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the distance, measured in the horizontal plane, of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
§ 110.10(b)4:	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.
§ 110.10(d):	Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b) through § 110.10(c) must be provided to the occupant.
§ 110.10(e)1:	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
11	

	SHEAR WALL SCHEDLILE CBC 2013											
\diamond	MATERIAL	B.S.	BLOCK	NAIL	EDGE	FIELD		SILL NAILING	SILL BOLTING	ALLOW	SIM	
Ι	1/2" GYM BD.			5d	7" O.C.	7" O.C.	A35 @ 48"O.C.	16d @ 16" O.C.	5/8"] A.B. @ 6'-0" O.C.	30 PLF	I	
2	5/8" GYM BD.			6d	7" O.C.	7" O.C.	A35 @ 48"O.C.	16d @ 16" O.C.	5/8"] A.B. @ 6'-0" O.C.	30 PLF	2	
3	7/8" STUCCO			6ga x 7/8'	6" O.C.	6" O.C.	A35 @ 30"O.C.	2-16d @ 16" O.C.	5/8"[] A.B. @ 6'-0" O.C.	180 PLF	3	
4	3/8" PLYWOOD		YES	8d	6" O.C.	12" O.C.	A35 @ 24"O.C.	2-16d @ 16" O.C.	5/8"[] A.B. @ 3'-10" O.C.	220 PLF	4	
5	3/8" PLYWOOD		YES	8d	4" O.C.	12" O.C.	A35 @ 16"O.C.	3-16d @ 16" O.C.	5/8"] A.B. @ 2'-6" O.C.	320 PLF	5	
6	3/8" PLYWD **		YES	8d	3" O.C.	12" O.C.	A35 @ 12"O.C.	3-1/4"[] W.S. @16" O.C.	5/8"] A.B. @ '- 0" O.C.	410 PLF	6	
7	3/8" PLYWD**		YES	8d	2" O.C.	12" O.C.	A35 @ 10"O.C.	3-1/4"[] W.S. @ 16" O.C.	5/8"] A.B. @ 1'-6" O.C.	530 PLF	7	
8	15/32" CDX PLYWOOD		YES	10d	6" O.C.	12" O.C.	A35 @ I6"O.C.	3-16d @ 16" O.C.	5/8"[] A.B. @ 2'-6" O.C.	310 PLF	8	
9	5/32" CDX PLYWOOD **		YES	10d	4" O.C.	12" O.C.	A35 @ 12"O.C.	3-1/4"] W.S.@ 16" O.C.	5/8"] A.B. @ 1'-10" O.C.	460 PLF	9	
10	5/32" CDX PLYWOOD **		YES	10d	3" O.C.	12" O.C.	A35 @ 9"O.C.	3-1/4"[] W.S.@ 16" O.C.	5/8"[] A.B. @ 1'-5" O.C.	600 PLF	10	
	5/32" CDX PLYWOOD **		YES	10d	2" O.C.	12" O.C.	A35 @ 7"O.C.	4-1/4"] W.S.@ 16" O.C.	5/8"[] A.B. @ '- " O.C.	770 PLF		
12	5/32" CDX PLYWOOD **	YES	YES	10d	4" O.C.	12" O.C.	A35 @ 7"O.C.	5-1/4"] W.S.@16" O.C.	5/8"]] A.B. @ 0'-11" O.C.	920 PLF	12	
15	SIMPSON STRONGWALL W	ITH OSE	B PANEL (I	CC-ESR#22	207) OR 5	SW(ICC-ESR	#1679). ALL INSTALI	ATIONS AND DETAILS PER SIN	IPSON RECOMMENDATIONS.		15	

INDICATES SHEAR WALL TYPE AND LOCATION. REFER TO SHEAR

SCHEDULE FOR CONSTRUCTION REQUIREMENT AND ANCHOR

BIDLICATES SHEAR WALL, SEE DETAIL

INDICATES DRAG / GIRDER TRUSS

 \leftarrow \Box \leftarrow \rightarrow indicates span \$ direction of New Roof Rafters

INDICATES SPAN & DIRECTION OF NEW CEILING JOISTS

INDICATES SIZE & SPACING OF FRMG. MEMBERS

SHEAR WALL NOTES:

- I. ZMAX OR HOT-DIP GALVANIZED.
- 2. PROVIDE SOLID BLOCKING AT PLYWOOD EDGE.
- 3. NAILS AND STAPLES SHALL DRIVEN AT ALL STUDS, PLATES, AND BLOCKING
- 4. PROVIDE EDGE NAILING TO STUDS AND POSTS AT HOLDOWN LOCATIONS.
- 5. USE 2 X STUDS (DOUGLAS FIR LARCH) @ 16" O.C. AT ALL SHEAR WALLS UNLESS OTHERWISE NOTED. 6. ALL ANCHOR BOLTS REQUIRED APPROVED 3"x3"x1/4" THICKNESS PLATE WASHER UNDER EACH NUT. SLOTING OF WASHER IS ALLOWED 1.75"
- END OF THE PIECE OF SHEAR WALL ..
- 9. I 5/32" CDX PLYWOOD SHALL BE A 4 PLY PLYWOOD MINIMUM OR ICC-ESR# APPROVED EQUAL

LEGEND:

ROOF DIAPHRAGM

USE 1/2" PLYWOOD CDX W/ 8d NAILS @ 6" O.C. SUPPORTED END OF

@ 12" O.C. INTERMEDIATE FRAMING

NO BLOCKING. (PI=24/0)

PANEL.

- PLYWD: INDICATES CDX OR OSB PLYWOOD. IT SHALL HAVE AN APPROVED ICC-ESR REPORT
- B.S: INDICATES BOTH SIDES. PLYWOOD SHALL BE APPLIED TO BOTH SIDES OF A WALL <u>W.S.</u> :
- PREVENT SPLITTING.

A.B.: INDICATES ANCHOR BOLT (A307) - IT SHALL BE REQUIRED 7" MINIMUM EMBEDMENT INTO FOUNDATION $\frac{\text{CONCRETE}}{\text{FOOTINDICATES SIMPSON FRAMING ANCHOR A35. IT MAY BE SUBSITUTED BY SIMPSON LTP5.}$

NOTES:

< 5`

WALL

------ INDICATES HEADER / BEAMS

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NAILS FOR PLWOOD AND SILL PLATE TO BE COMMON NAIL. ANY FASTNERS THAT ATTACHED TO PRESSURE TREATED WOOD SHALL BE

7. WHERE ANCHOR BOLTS IS MISSING, PROVDIDE 5/8" THREAD ROD WITH SIMPSON SET EPOXY (ICC-ESR# 1772) AND INSERT MIN. 6" INTO CONCRETE. 8. THERE SHALL BE A MINIMUM 2 BOLTS PER PIECE OF SHEAR WALL WITH ONE BOLT LOCATED NOT MORE THEN 12" OR LESS THAN 5" FROM EACH

**: INDICATES 3 X FRAMING OR THICKER REQUIRED FOR ALL PLYWOOD EDGE NAILING AND SILL PLATE EXCEPT DOUBLE TOP PLATE. NAILS SHALL BE PLACED NOT LESS HANFROM PLYWOOD PANEL EDGE AND STAGGERED. SPECIAL INSPECTION IS REQUIRED.

INDICATES WOOD SCREW --- USE SIMPSON SDS I /4X6 (G"LONG). EDGE, END AND SPACING DISTANCES SHALL BE SUFFICIENT TO

SHEAR WALL SCHEDULE CBC 2013											
\diamond	MATERIAL	B.S.	BLOCK	NAIL	EDGE	FIELD		SILL NAILING	SILL BOLTING	ALLOW	SYM
Ĭ	1/2" GYM BD.			5d	7" O.C.	7" O.C.	A35 @ 48"O.C.	16d @ 16" O.C.	5/8"] A.B. @ 6'-0" O.C.	30 PLF	I
2	5/8" GYM BD.			6d	7" O.C.	7" O.C.	A35 @ 48"O.C.	16d @ 16" O.C.	5/8"] A.B. @ 6'-0" O.C.	30 PLF	2
3	7/8" STUCCO			16ga x 7/8"	6" O.C.	6" O.C.	A35 @ 30"O.C.	2-16d @ 16" O.C.	5/8"] A.B. @ 6'-0" O.C.	180 PLF	3
4	3/8" PLYWOOD		YES	8d	6" O.C.	12" O.C.	A35 @ 24"O.C.	2-16d @ 16" O.C.	5/8"] A.B. @ 3'-10" O.C.	220 PLF	4
5	3/8" PLYWOOD		YES	8d	4" O.C.	12" O.C.	A35 @ 6"O.C.	3-16d @ 16" O.C.	5/8"] A.B. @ 2'-6" O.C.	320 PLF	5
6	3/8" PLYWD **		YES	8d	3" O.C.	12" O.C.	A35 @ 12"O.C.	3-1/4"] W.S. @ 16" O.C.	5/8"] A.B. @ 1'-10" O.C.	410 PLF	6
7	3/8" PLYWD**		YES	8d	2" O.C.	12" O.C.	A35 @ 10"O.C.	3-1/4"] W.S. @ 16" O.C.	5/8"] A.B. @ 1'-6" O.C.	530 PLF	7
8	15/32" CDX PLYWOOD		YES	10d	6" O.C.	12" O.C.	A35 @ 16"O.C.	3-16d @ 16" O.C.	5/8"] A.B. @ 2'-6" O.C.	310 PLF	8
9	5/32" CDX PLYWOOD **		YES	10d	4" O.C.	12" O.C.	A35 @ 12"O.C.	3-1/4"[] W.S.@ 16" O.C.	5/8"] A.B. @ 1'-10" O.C.	460 PLF	9
10	5/32" CDX PLYWOOD **		YES	104	3" O.C.	12" O.C.	A35 @ 9"O.C.	3-1/4"[] W.S.@ 16" O.C.	5/8"] A.B. @ 1'-5" O.C.	600 PLF	10
	5/32" CDX PLYWOOD **		YES	IOd	2" O.C.	12" O.C.	A35 @ 7"O.C.	4-1/4"[] W.S.@ 16" O.C.	5/8"] A.B. @ I'-I" O.C.	770 PLF	11
12	5/32" CDX PLYWOOD **	YES	YES	10d	4" O.C.	12" O.C.	A35 @ 7"O.C.	5-1/4"[] W.S.@ 16" O.C.	5/8"] A.B. @ 0'-11" O.C.	920 PLF	12
15	SIMPSON STRONGWALL W	/ITH OSI	B PANFL (I	CC-ESR#2	207) OR S	SW/ICC-ESR	#1679) ALL INSTAL	LATIONS AND DETAILS PER SI	MPSON RECOMMENDATIONS		15

SHEAR WALL NOTES:

- I. ZMAX OR HOT-DIP GALVANIZED.
- 2. PROVIDE SOLID BLOCKING AT PLYWOOD EDGE.

NOTES: 5

INDICATES SHEAR WALL TYPE AND LOCATION. REFER TO SHEAR WALL SCHEDULE FOR CONSTRUCTION REQUIREMENT AND ANCHOR BOLCATES SHEAR WALL, SEE DETAIL

------ INDICATES HEADER / BEAMS

- ------ INDICATES DRAG / GIRDER TRUSS
- INDICATES SPAN & DIRECTION OF NEW ROOF RAFTERS
- INDICATES SPAN & DIRECTION OF NEW CEILING JOISTS

INDICATES SIZE & SPACING OF FRMG. MEMBERS

ROOF DIAPHRAGM USE 1/2" PLYWOOD CDX W/ 8d NAILS @ 6" O.C. SUPPORTED END OF PANEL. @ 12" O.C. INTERMEDIATE FRAMING NO BLOCKING. (PI=24/0)

LEGEND:

PLYW	<u>D:</u> INDICATES CD
<u>**</u> :	INDICATES 3 X FRAM PLACED NOT LESS
<u>B.S:</u>	INDICATES BOTH SIE
<u>W.S.</u>	: INDICATES WO PREVENT SPLIT
<u>A.B.</u>	: INDICATES AND REQUIRED 7" MINIMU
<u>A35:</u>	CONCRETE FOOTING.

	/
2x RAFTER@ 24" O.C.	2x RAFTER@ 24" O.C.
D	

1 **ROOF FRAMING** 1/4" = 1'-0"

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NAILS FOR PLWOOD AND SILL PLATE TO BE COMMON NAIL. ANY FASTNERS THAT ATTACHED TO PRESSURE TREATED WOOD SHALL BE

3. NAILS AND STAPLES SHALL DRIVEN AT ALL STUDS, PLATES, AND BLOCKING

4. PROVIDE EDGE NAILING TO STUDS AND POSTS AT HOLDOWN LOCATIONS.

5. USE 2 X STUDS (DOUGLAS FIR LARCH) @ 16" O.C. AT ALL SHEAR WALLS UNLESS OTHERWISE NOTED.

6. ALL ANCHOR BOLTS REQUIRED APPROVED 3"x3"x1/4" THICKNESS PLATE WASHER UNDER EACH NUT. SLOTING OF WASHER IS ALLOWED 1.75"

7. WHERE ANCHOR BOLTS IS MISSING, PROVDIDE 5/8" THREAD ROD WITH SIMPSON SET EPOXY (ICC-ESR#1772) AND INSERT MIN. 6" INTO CONCRETE. 8. THERE SHALL BE A MINIMUM 2 BOLTS PER PIECE OF SHEAR WALL WITH ONE BOLT LOCATED NOT MORE THEN 12" OR LESS THAN 5" FROM EACH

END OF THE PIECE OF SHEAR WALL..

9. I 5/32" CDX PLYWOOD SHALL BE A 4 PLY PLYWOOD MINIMUM OR ICC-ESR# APPROVED EQUAL

DX OR OSB PLYWOOD. IT SHALL HAVE AN APPROVED ICC-ESR REPORT

MING OR THICKER REQUIRED FOR ALL PLYWOOD EDGE NAILING AND SILL PLATE EXCEPT DOUBLE TOP PLATE. NAILS SHALL BE THANFROM PLYWOOD PANEL EDGE AND STAGGERED. SPECIAL INSPECTION IS REQUIRED.

IDES. PLYWOOD SHALL BE APPLIED TO BOTH SIDES OF A WALL

OOD SCREW --- USE SIMPSON SDS I /4XG (G"LONG). EDGE, END AND SPACING DISTANCES SHALL BE SUFFICIENT TO TTING.

ACHOR BOLT (A307) - IT SHALL BE ZMAX I 85 ASTM AG53) OR HOT-DIP GALVANIZED (ASTM A I 23) HEADED BOLTS AND AUM EMBEDMENT INTO FOUNDATION

MPSON FRAMING ANCHOR A35. IT MAY BE SUBSITUTED BY SIMPSON LTP5.

ANCHOR PER STRUCT.

PRESSURE TREATED SILL PLATE

CONT. BACKER ROD & SEALANT

RAISED FOUNDATION PER STRUCTURAL

TYPICAL UNDER-FLOOR ACCESS @ RASIED FOUNDATION / TYPICAL UNDER $3 \frac{\text{FLOOR VENTILATION}}{1 1/2" = 1'-0"}$

1 <u>LOAD PATH DETAIL</u> 1 1/2" = 1'-0"

