GENERAL NOTES

- CONTRACTOR SHALL STUDY THE DRAWINGS, SPECIFICATIONS AND FIELD CONDITIONS BEFORE COMMENCING WITH THE WORK INVOLVED. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE OWNER IN WRITING FOR CORRECTIONS OR CLARIFICATION. PROVIDE SHORING AT ALL TIMES WHEN ALTERING VERTICAL MEMBERS. CONTRACTOR
- SHALL VERIFY ACTUAL CONDITIONS AND REPORT IN WRITING TO THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK. THE AREA OF GLASS IN WINDOWS LIMITED TO 20% OF THE FLOOR ADDITION PLUS THE
- AREA OF ANY GLASS THAT WAS ELIMINATED IN THE ORIGINAL RESIDENCE WALL AREA WHERE THE NEW ADDITION IS ATTACHED. ALL NEW WINDOWS SHALL BE DUAL-GLAZED. ALL WINDOWS ARE TO BE WEATHER STRIPPED.
- SMOKE DETECTORS SHALL BE INSTALLED IN AREAS GIVING ACCESS TO SLEEPING ROOMS ON OR NEAR THE CEILING, IN EACH SLEEPING ROOM (CBC 310.9.1-4).
- ATTIC VENTILATION, EQUAL TO 1/150 OF SPACE VENTILATED, SHALL BE PROVIDED OR AS REQUIRED FOR FORCED AIR UNIT.
- UTILITY LINES AND ACCESSORIES FOUND AT THE SITE THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE RELOCATED AS NECESSARY. THE CONTRACTOR SHALL
- OBTAIN ANY BUILDING PERMIT REQUIRED ALL WOOD IN CONTACT WITH CONCRETE AND FOUNDATION SILLS SHALL BE PRESSURE TREATED
- PROVIDE CORROSION RESISTED WEEP SCREED AT FOUNDATION PLATE LINE WHICH WILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. 4" MINIMUM HEIGHT ABOVE GRADE. WALLS CONTAINING 3" OR 4" DIAMETER DRAIN/WASTE/VENT PIPING SHALL BE SIZED TO
- ALLOW CUTTING/NOTCHING/BORING (2 X 6 MIN.). CAULK/SEAL ALL PENETRATIONS TO TOP AND BOTTOM PLATES.
- CAULK/SEAL ALL EXTERIOR BOTTOM PLATES. INSULATION : WALLS R-15 / CEILING R-30 / FLOOR R-19
- ALL EXTERIOR FINISH MATERIAL TO MATCH EXISTING IN TYPE AND COLOR.
- ALL NEW ELECTRICAL WIRING SHALL BE COPPER. PROVIDE SEPARATE INSPECTION FOR EACH PHASE OF EXTERIOR PLASTER AS
- FOLLOWS : SCRATCH COAT, BROWN COAT, COLOR COAT [STAPLES ARE NOT PERMITTED FOR ATTACHING WIRE]. BUILDING PAPER TO BE USED # 60 FOR STUCCO THAT DOES NOT HAVE PLYWOOD
- BACKING. DUCTS SHALL BE SIZED PER CHAPTER 6 OF THE MECHANICAL CODE.
- DISTANCE FROM FACE OF THE FOUNDATION TO PROPERTY LINE TO BE ZONING SETBACK PLUS WALL FINISH THICKNESS (MINIMUM). THE DISCHARGE OF POLLUTANTS TO ANY STORM DRAINAGE SYSTEM IS PROHIBITED. NO SOLID WASTE MATERIALS, OR WASTEWATER GENERATED ON CONSTRUCTION SITES OR BY CONSTRUCTION ACTIVITIES SHALL BE PLACED, CONVEYED OR DISCHARGED INTO THE
- STREET, GUTTER OR STORM DRAIN SYSTEM THE INSULATION INSTALLER AND THE CONTRACTOR SHALL POST A SIGNED CERTIFICATE OF COMPLIANCE IN A CONSPICUOUS LOCATION IN THE BUILDING. THIS CERTIFICATE SHALL STATE THAT THE INSTALLATIONS AND MATERIALS CONFORM TO THE APPROPRIATE SECTIONS OF THE CALIFORNIA ADMINISTRATIVE CODE, TITLES 20 AND 24 AND SHALL SPECIFY THE MANUFACTURE'S NAME AND MATERIAL IDENTIFICATION, THE INSTALLED R-VALUE, AND WHEN LOOSE FILL IS INSTALLED, SHALL STATE THE MINIMUM INSTALLED WEIGHT PER SQUARE FOOT CONSISTENT WITH THE MANUFACTURE'S
- LABELED DENSITY FOR THE DESIRED R-VALUE. ALL INTERIOR DOORS TO BE HOLLOW CORE 1 3/8" THICK U.N.O., (SEE PLAN FOR SIZE). AT DOUBLE INTERIOR DOOR CONDITIONS PROVIDE DEADBOLT AT TOP OF INACTIVE DOOR.
- 3. ALL EXTERIOR FRENCH DOORS TO BE SOLID CORE 1 3/4" THICK. (SEE PLAN FOR SIZE). AT DOUBLE FRENCH DOORS PROVIDE DEADBOLT AT TOP AND BOTTOM OF INACTIVE DOOR W/ TEMP. GL 24. CONTRACTOR SHALL VERIFY WITH WINDOW MANUFACTURER THAT ALL ESCAPE OR
- RESCUE WINDOWS HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET, GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 FT. THE MIN. NET CLEAR OPENING HEIGHT SHALL BE 24". THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20" AND THE BOTTOM OF THE CLEAR OPENING NO GREATER THAN 44" ABOVE THE FLOOR (C.R.C. R310.1). WINDOWS NOT MEETING THESE REQUIREMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGNER.
- 5. DUCTS PENETRATING WALL OR CEILING PENETRATIONS BETWEEN GARAGE AND DWELLING UNIT SHALL BE CONSTRUCTED OF 26 GAGE MIN. SHEET METAL AND SHALL HAVE NO OPENING INTO GARAGE -PER SEC R302.5.2 . THE CONSTRUCTION SHALL NOT RESTRICT A FIVE FOOT CLEAR AND AN OBSTRUCTED
- ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES.PULL BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCE ETC,) OR THE LOCATION OF THE HOOK UPS. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES WHEATHER
- OR NOT THE LINES ARE LOCATED ON THE PROPERTY.FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/ OR ADDITIONAL EXPENSES PROVIDE ULTRA LOW FLUSH WATER CLOSETS FOR ALL NEW CONSTRUCTION.EXISTING
- SHOWER HEADS AND TOILETS MUST BE ADAPTED FOR LOW WATER CONSUMPTION. WATER HEATER MUST BE STRAPPED TO WALL (SEC.5013 LAPC) . SMOKE DETECTORS SHALL BE PROVIDED FOR ALL DWELLING UNITS INTENDED FOR HUMAN OCCUPANCY, UPON THE OWNER'S APPLICATION FOR A PERMIT FOR
- ALTERATIONS, REPAIRS, OR ADDITIONS EXCEEDING ONE THOUSAND DOLLARS (\$1,000) (R314.6.2) WHERE A PERMIT IS REQUIRED FOR ALTERATIONS, REPAIRS OR ADDITIONS EXCEEDING ONE THOUSAND DOLLARS (\$1,000) EXISTING DWELLING OR SLEEPING UNITS THAT HAVE
- ATTACHED GARAGES OR FUEL BURNING APPLIANCES SHALL BE PROVIDED WITH A CARBON MONOXIDE ALARM IN ACCORDANCE WITH SECTION R3151.CARBON MONOXIDE ALARMS SHALL ONLY BE REQUIRED IN THE SPECIFIC DWELLING UNIT OR SLEEPING UNITS FOR WHICH THE PERMIT WAS OBTAINED (R315.2).
- EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL LIGHT BY MEANS OF EXTERIOR GLAZED OPENING IN ACCORDANCE WITH SECTION R303.1 OR SHALL BE PROVIDED WITH ARTIFICIAL LIGHT THAT IS ADEQUATE TO PROVIDE AN AVERAGE ILLUMINATION OF 6 FOOT -CANDLES OVER THE AREA OF THE ROOM, AT A HEIGHT OF 30 INCHES ABOVE THE FLOOR LEVEL (R303.1)

GENERAL REQUIREMENTS

- ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 EDITION OF THE CBC, CRC, CMC, CPC, AND CEC AS ADOPTED AND AMENDED BY THE STATE OF CALIFORNIA IN TITLE 24 CCR
- AND HIS JURISDICTION. SEPARATE PERMITS MAY BE REQUIRED FOR MECHANICAL, ELECTRICAL, PLUMBING,
- SHORING, GRADING, AND DEMOLITION.
- ALL PROPERTY LINES, EASEMENTS, AND EXISTING BUILDINGS HAVE BEEN INDICATED ON THIS SITE PLAN.
- A SECURITY FENCE SHALL BE PROVIDED AROUND THE CONSTRUCTION AREA THAT SHALL BE INSTALLED PRIOR TO EXCAVATION AND OR F FOUNDATION TRENCHING. (BMC 9-1-13302.3).
- WATER SHALL BE PROVIDED ON THE SITE AND USES TO CONTROL DUST. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED ON SITE. (BMC 9-1-1-3305) THE FINISH GRADE SHALL SLOPE A MIN. OF 5%, OR 6", TO A POINT 10 FEET FROM BUILDING FOUNDATION, OR TO AN APPROVED ALTERNATE METHOD OF DIVERTING WATER AWAY
- FROM THE FOUNDATION. SWALES SHALL SLOPE A MINIMUM OF 2%. (CRC R401.3) THE TOP OF THE EXTERIOR FOUNDATION SHALL EXTEND ABOVE THE ELEVATION OF THE STREET GUTTER A MINIMUM 12" OR PLUS 2 % (CRC R403.1.7.3)

FIRE PROTECTION

- AN APPROVED SMOKE ALARMS SHALL BE INSTALLED IN EACH SLEEPING ROOM AND HALLWAY OR AREA GIVING ACCESS TO A SLEEOING ROOM, AND EACH STORY AND BASEMENT FOR DWELLING WITH MORE THAN ONE STORY, SMOKE ALARMS SHALL BE INTERCONNECTED SO THAT ACTUATION OF A ONE ALARM WILL ACTIVATE ALL THE ALARMS WITHIN THE INDIVIDUAL DWELLING UNIT.IN NEW CONSTRUCTION SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER SOURCE FROM THE BUILDING WIRING AND SHALL BE EQUIPPED WITH BATTERY BACK UP AND LOW BATTERY SIGNAL (R314).
- AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED IN DWELLING UNITS AND IN SLEEPING UNITS.WITHIN WHICH FEL-BURNING APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES, CARBON MONOXIDE ALARM SHALL BE PROVIDED OUTSIDE OF EACH SEPARATE DWELLING UNITS SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS AND ON EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENT (R315)

SCOPE OF WORK

PROPOSED POOL CABANA 469 SQ.FT.

PROPERTY INFORMATION

PROPERTY INFORMATION

ASSESSOR'S ID NO: ADDRESS: PROPERTY TYPE:

510-26-022 19910 SUNSET DRIVE LOS GATOS, CA 95030 SINGLE FAMILY RESIDENTIAL

PROPERTY BOUNDARY DESCRIPTION TR=

26

LOT

BUILDING DESCRIPTION YEAR BUILD / EFFECTIVE YEAR BUILT: BEDROOMS / BATHROOMS UNITS STORIES

2,863 1924/1964 3/2

SQUARE FOOTAGE

LOT AREA EXISTING SFD: Garage/Parking POOL CABANA RATIO

38,768 SQ.FT. 2,863 SQ.FT. 750 SQ.FT. 469 SQ.FT. 10.52%

RESIDENTIAL GENERAL REQUIREMENTS CHECK LIST

- 2. STEEL REINFORCEMENT: GRADE 60, DEFORMED. PER CRC R404.1.2.3.7.1
- 3. ANCHOR BOLTS: A-307.
- 5. USE 2-15# FELT BACKING WHEN STUCCO IS APPLIED OVER PLYWOOD, UBC SEC. 2501.4.
- 6. ALL WORK SHALL COMPLY WITH THE FOLLOWING CODES INCLUDING LOCAL AMENDMENTS.

RESIDENTIAL GENERAL REQUIREMENTS CHECK LIST

- THE FOLLOWING IS INTENDED AS AN ATTACHMENT FOR CONSTRUCTION AND GRADING PLANS AND REPRESENT THE MINIMUM STANDARDS OF HOUSEKEEPING WHICH MUST BE IMPLEMENTED ON ALL CONSTRUCTION SITESREGARDLESS OF SIZE.
- NATURAL DRAINAGE OR WIND.
- SWALES, AREA DRAINS, NATURAL DRAINAGE OR WIND. 4. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE
- MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- WASTES ON SITE UNTIL THEY CAN BE DIPOSED OF AS SOLID WASTE 6.
- BY WIND. 7
- BY RAIN OR OTHER MEANS. ANY SLOPES WITH DISTURBED SOILSOR DENUDED OF VEGITATION MUST BE STABILIZED SO AS TO INHIBIT EROSIOP EROSION BY WIND AND WATER. 9. AS PER AMC SEC. 18.38.015 ADU LESS THAN 800 SF DO NOT GET INCLUDED IN THE LOT COVERAGE CALCULATIO. THE LOT COVERAGE SHALL BE LIMITED TO MAIN HOME AND ADDITION.



ALL WORK SHALL COMPLY WITH THE FOLLOWING CODES

- 2022 CALIFORNIA RESIDENTIAL CODE
- 2022 CALIFORNIA ELECTRICAL CODE INTERNATIONAL CODE COUNCIL • 2022 CALIFORNIA BUILDING CODE (C.B.C.)
- 2022 CALIFORNIA BUILDING ENERGY STANDARDS
- 2022 CALIFORNIA RESIDENTIAL CODE (C.R.C.) • 2023 LA FIRE CODE (LAFC)
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE CITY MUNICIPAL CODE

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C1	CIVIL SITE PLAN
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SD1	STANDARD DETAILS
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CONCRETE STRENGTH: 2,500 P.S.I. PER 2022 CRC R404,1,2,3,1, @ 28 DAYS. USE TYPE II OR V CEMENT. SPECIAL INSPECTION IS NOT REQ'D.

4. LUMBER: USE DOUGLAS FIR, LARCH NO. 2 OR BETTER UNLESS OTHERWISE NOCOTED ON FRAMING PLANS.

2. ERODED SEDIMENTS AND OTHER POLLUTANTSMUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, 3. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO PROTECTED FROM THE WEATHER. SPILLS MUST BE CLAENED UP IMMEDIATELY AND DISPOSED OF IN A PROPER EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO HE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIAN CONCRETE TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL 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





REVISION BY
PROJECT: PROJECT: PROPOSED POOL CABANA ADDRESS: 19910 SUNSET DRIVE LOS GATOS, CA 95030 ADRESS: 19910 SUNSET DRIVE LOS GATOS, CA 95030
SIGNATURE
PROJECT DATA, VICINITY MAP & SITE PLAN

ARCHITECTURAL NOTES

- . PROVIDE 72" HIGH NON ABSORBENT WALL ADJACENT TO SHOWER AND APPROVED SHATTER RESISTANT MATERIALS FOR SHOWER ENCLOSURE. MATERIALS OTHER THAN STRUCTURAL ELEMENTS TO BE MOISTURE RESISTANT.
- 2. SIZE OF SHOWER STALL TO COMPLY WITH CPC 412.7, 1024 SQ. IN. MINIMUM INTERIOR AND ENCOMPASSING 30" CIRCLE. DOOR SHALL SWING TO THE OUTSIDE.
- 3. LOW FLOW TOILETS (1.28 GALLON/FLUSH) -SHOWERHEADS (2.0 GPM @ 80 PSI)-FAUCETS (2.0 GPM @ 60 PSI)
- PROVIDE INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE FOR SHOWERS AND TUB SHOWERS.
- 5. PROVIDE WEEP SCREED FOR STUCCO AT THE FOUNDATION PLATE LINE A MINIMUM OF4" ABOVE THE EARTH OR 2" ABOVE PAVED AREAS.
- 6. DUCTS SHALL BE SIZED PER CHAPTER 6 OF THE MECHANICAL CODE
- CLOTHES DRYER MOISTURE EXHAUST DUCT IS LIMITED TO 14 FEET WITH 2 ELBOWS FROM THE CLOTHES DRYER TO POINT OF TERMINATION REDUCE THIS LENGTH BY 2 FEET FOR EVERY ELBOW IN EXCESS OF 2.
- 8. UNIT SKYLIGHTS SHALL BE LABELED BY L.A CITY APPROVED LABELING AGENCY.SUCH LABEL SHALL STATE THE APPROVED LABELING AGENCY NAME, PRODUCT DESIGNATION AND PERFORMANCE GRADE RATING.
- PROVIDE ULTRA LOW FLUSH WATER CLOSETS FOR ALL NEW CONSTRUCTION. EXISTING SHOWER HEADS AND TOILETS MUST BE UPDATED FOR LOW WATER CONSUMPTION.
 THE CONSTRUCTION SHALL NOT RESTRICT A FIVE FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO
- COMPLY MAY CAUSE CONSTRUCTION DELAYS AND OR ADDITIONAL EXPENSES. 11. AN APPROVED SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWN STREAM SIDE OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING.
- NEW OR REPLACEMENT WATER HEATERS SHALL BE STRAPPED TO THE WALL IN TWO ONE IN THE UPPER 1/3 OF THE TANK AND ONE IN THE LOWER 1/3 OF THE TANK. THE LOWER POINT SHALL BE A MINIMUM OF 4" ABOVE THE CONTROLS. (P.C.510.5) LOW IN EXCESS OF 2.
- PLUMBING FIXTURES ARE REQUIRED TO BE CONNECTED TO A SANITARY SEWER OR TO AN APPROVED SEWAGE DISPOSAL SYSTEM (R306.3).
 KITCHEN SINK LAVATORIES, BATHTUBS, SHOWERS, BIDETS, LAUNDRY TUBS AND WASHING
- MACHINE OUTLETS SHALL BE PROVIDED WITH HOT AND COLD WATER AND CONNECTED TO AN APPROVED WATER SUPPLY (R306.4).
- BATHTUB AND SHOWER FLOORS, WALL ABOVE BATHTUBS WITH A SHOWERHEAD, AND SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6' ABOVE THE FLOOR (R307.2).
 EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL
- LIGHT BY MEANS OF EXTERIOR GLAZED OPENINGS IN ACCORDANCE WITH SECTION R303.1 OR SHALL BR PROVIDED WITH ARTIFICIAL LIGHT THAT IS ADEQUATE TO PROVIDE AN AVERAGE ILLUMINATION OF 6' CANDLES OVER THE AREA OF THE ROOM AT A HEIGHT OF 30" ABOVE THE FLOOR LEVEL. (R303.1) 7. A COPY OF THE EVALUATION REPORT AND/ OR CONDITIONS OF LISTING SHALL BE MADE
- AVAILABLE AT THE JOB SITE.
 18. HEATER SHALL BE CAPABLE OF MAINTAINING A MINIMUM ROOM TEMP' OF 68°F AT A POINT 3' ABOVE THE FLOOR AND 2' FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS AT THE
- DESIGN TEMPERATURE. 19. PROTECTION OF WOOD AND WOOD BASED PRODUCTS FROM DECAY SHALL BE PROVIDED IN THE LOCATIONS SPECIFIED PER SECTION R317.1 BY THE USE OF NATURALLY DURABLE WOOD OR WOOD THAT IS PRESERVATIVE TREATED IN ACCORDANCE WITH AWPA U1 FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END USE.PRESERVATIVES SHALL BE LISTED IN
- SECTION 4 OF AWPA U1. 20. PROVIDE ANTI-GRAFFITI FINISH WITHIN THE FIRST 9 FEET, MEASURED FROM GRADE, AT EXTERIOR WALLS AND DOORS .EXCEPTION: MAINTENANCE OF BUILDING AFFIDAVIT IS RECORDED BY THE OWNER TO COVENANT AND AGREE WITH THE CITY OF LOS ANGELES TO REMOVE ANY GRAFFITI WITHIN 7 DAYS OF THE GRAFFITI BEING APPLIED. (6306)

ADDITIONAL NOTES

- HABITABLE SPACES SHALL HAVE CEILING HEIGHT OF NO LESS THAN 7'-6". KITCHENS, LAUNDRY ROOM, CORRIDORS AND BATHROOMS SHALL HAVE CEILING HEIGHT NOT LESS
- THAN 7'.
 PROVIDE 1 ESCAPE WINDOW IN EACH BEDROOM MEETING ALL OF THE FOLLOWING: AN OPENABLE AREA NOT LESS THAN 5.7 SQ.FT. MIN. CLEAR 24" HEIGHT AND 20" WIDTH AND SILL
- NOT OVER 44" ABOVE FLOOR 3. SHOWER WALLS MUST BE FINISHED TO A HEIGHT OF 72" ABOVE DRAIN W/ MOISTURE RESISTIVE TILE OR APPROVED EQUAL
- MAX. FLOW RATE STANDARDS SET BY THE CALIFORNIA ENERGY COMMISSION: WATER CLOSETS 1.28 GPF, SHOWERHEADS 2.0 GPM, LAUNDRY FAUCETS 1.5 GPM, SINK FAUCETS 1.5 GPM, AND KITCHEN FAUCETS 1.8 GPM
- EXTERIOR WALLS WITHIN 3 FEET OF PROPERTY LINE (SPRINKLERS) OR 5 FEET OF PROPERTY LINE (WITHOUT SPRINKLERS) REQUIRE 1-HOUR FIRE RATING FOR EXPOSURE TO BOTH SIDES
 PROJECTIONS: -PROHIBITED WITHIN 2 FEET OF PROPERTY LINE -1-HOUR FIRE RATING ON THE UNDERSIDE WITHIN 2FT OF PROPERTY LINE (SPRINKLERS) 1 HOUR FIRE RATING ON THE
- UNDERSIDE WITHIN 3FT OF PROPERTY LINE (SPRINKLERS) -1-HOUR FIRE RATING ON THE UNDERSIDE WITHIN 5FT OF PROPERTY LINE (WITHOUT SPRINKLERS) 7. OPENINGS: -PROHIBITED WITHIN 3FT OF PROPERTY LINE -MAXIMUM 25% OF WALL AREA
- WITHIN 5 FEET OF PROPERTY LINE (WITHOUT SPRINKLERS)
 8. PENETRATIONS: -1-HOUR FIRE-RATED PENETRATIONS OF WALLS WITHIN 3FT OF PROPERTY LINE (SPRINKLERS) -1-HOUR FIRE-RATED PENETRATIONS OF WALLS WITHIN 5FT OF PROPERTY LINE (WITHOUT SPRINKLERS)

UTILITY NOTES

- 1. ALL BRANCH CIRCUITS SUPPLYING RECEPTACLES SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER (AFCI)
- ALL 120-VOLT, SINGLE PHASE 15 AND 20 AMP BRANCH CIRCUIT SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY ROOMS OR SIMILAR ROOMS OR AREAS SHALL BE AFCI PROTECTED BY ANY OF THE MEANS DESCRIBED IN 210.12 (A) (1). AT KITCHEN COUNTER SPACE, RECEPTACLES SHALL BE INDICATED AS COMBINATION AFCDI/GFCI.
- INDICATED AS COMBINATION AFCDI/GFCI.
 TAMPER RESISTANT RECEPTACLES IN ALL AREAS SPECIFIED IN SECTION 210.52ALL 125-VOLT,
- 15 AND 20 AMP RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES
 NEW BOXES USED AT LUMINAIRES OR LAMP HOLDER OUTLETS IN A CEILING SHALL BE REQUIRED TO SUPPORT A LUMINAIRIE WEIGHING A MINIMUM OF 50 LB. BOXES USED AT LUMINARIE OUTLETS IN WALL SHALL BE DESIGNED FOR THE PURPOSE AND SHALL BE MARKED ON THE INTERIOR INDICATING THE MAXIMUM WEIGHT OF LUMINAIRE PERMITTED, IF OTHER THAN 50 LBS. OUTLET BOXES OR SYSTEMS USED AS THE SOLE SUPPORT OF CEILING FANS SHALL BE LISTED AND MARKED BY THE MANUFACTURE AS SUITABLE FOR THIS PURPOSE. (314.27 CEC)
- ALL LEAD LUMINAIRES ARE REQUIRED TO BE CONTROLLED BY NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) SSL-7A-COMPLIANT DIMMER UNLESS THEY ARE CONTROLLED BY A VACANCY SENSOR OR AN OCCUPANCY SENSOR. THE COMBINED USE OF NEMA SSL-7A-COMPLIANT DIMMER WITH LED LUMINAIRES CANENSURE FLICKER FREE OPERATION WHEN THE LUMINAIRE IS DIMMED. (2019 RESIDENTIAL COMPLIANCE MANUAL 6.3.1(G)
- 6. IN BATHROOMS, AT LEAST ONE LUMINAIRE IN EACH OF THIS SPACES MUST BE CONTROLLED BY AN OCCUPANT SENSOR OR A VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY. IF A OCCUPANT SENSOR IS INSTALLED, IT MUST BE INITIALLY CONFIGURED TO MANUAL-ON OPERATION USING THE MANUAL CONTROL REQUIRED UNDER SECTION 150.0(k)2C.

ADDITIONAL NOTES

- 1. PROVIDE A MINIMUM OF (2) 20 AMP SMALL APPLIANCE CIRCUITS FOR THE KITCHEN COUNTER TOPS. SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS. LOADS SHALL BE
- BALANCED. CEC 210-52(B) (2) 2. PROVIDE A MINIMUM OF (1) 20 AMP LAUNDRY BRANCH CIRCUIT. SUCH CIRCUIT SHALL
- HAVE NO OTHER OUTLETS. CEC 210-23(A).
- 3. A MINIMUM OF (1) 20-AMP CIRCUIT FOR BATHROOM(S) OUTLET. SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS. THIS CIRCUIT MAY SERVE MORE THAN ONE BATHROOM CEC 210-23
- 4. IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS, AT LEAST ONE
- LUMINAIRE IN EACH OF THESE SPACES MUST BE CONTROLLED BY A VACANCY SENSOR. 5. OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING, OR TO OTHER BUILDING ON THE SAME LOT, MUST MEET THE REQUIREMENT IN ITEM 150.0(K)3AI (ON AND OFF SWITCH) AND THE REQUIREMENTS IN EITHER ITEM 150.0(K)3AII (PHOTOCELL AND MOTION SENSOR) OR ITEM 150.0(K)3AII (PHOTO CONTROL AND AUTOMATIC TIME SWITCH CONTROL, ASTRONOMICAL TIME CLOCK, OR EMCS
- 6. ALL LIMINAIRES SHALL BE HIGH EFFICACY -PER SECTION 150.0(K)1A.7. CIRCUIT SHALL HAVE NO OTHER OUTLETS. CEC 210-23(A).

ELEC	CTRICAL KEY:
\ominus	DUPLEX OUTLET
\bigcirc	DUPLEX OUTLET ABOVE COU
8	DUPLEX OUTLET BELOW COU
\ominus	SPLIT SWITCHED OUTLET

- FLOOR OUTLET
- SPLIT SWITCHED FLOOR OUTLET
- 4 GANG FLOOR OUTLET GFI GROUND FAULT OUTLET
- GFI/WP WEATHER PROOF OUTLET
- € 220v OUTLET
- S EXAUST FAN -(S- EXAUST FAN / LIGHT
- R RECESSED CAN LIGHT
- F
 RECESSED FLUORESCENT

 Image: Comparison of the system
 EYEBALL LIGHT

 Image: Comparison of the system
 VAPOR PROTECTED LIGHT

 Image: Comparison of the system
 RECESSED WALL OUTLET
- RECESSED MR15
- ↔ PENDANT LIGHT
- \$ SINGLE SWITCH
- \$³ 3-WAY SWITCH
 \$⁴ 4-WAY SWITCH
- \$^D DIMMER SWITCH
- \$^R RHEOSTAT
- HIGH SPEED INTERNET
- BUTTON
 ✓ PHONE JACK
- SD SMOKE DETECTOR
- SMOKE/CARBON DETECTOR (DIRECT WIRE W/ BATT)
- INTERCOM
- DISCONNECT SWITCH

- (JB) JB FOR CEILING FAN
- FLOOD LIGHT
- (JB) JUNCTION BOX
- SPEAKER HARD WIRE
- CENTRAL VACUUM ACCESS
- GS GAS STUB
- (HB) HOSE BIB
- G) 1-#5 GROUND FOR ELEC
- G 1-#5 GROUND FC
- GAS APP W/H
- 300 300 AMP ELEC PANEL
- 200 225 AMP ELEC PANEL
- 100 100 AMP ELEC PANEL
- CEILING FAN W/LIGHT





A	2	•	0







4.10X 144 = 591.36 SQIN. VENTILATION PROVIDED: HIGH (3) O'HAGIN EXHAUST VENT 72 SQIN. EA.= 216 SQ IN. (3) 14X6 INTAKE VENT 65 SQIN. EA. = 195 SQ IN.SUBTOTAL HIGH VENTILATION: TOTAL VENTILATION PROVIDED: 591.36 SQ IN.

LOW

		TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURA	LMEMBERS			
EM	DESCRIPTION OF BL	ILDING ELEMENTS	NUMBER AND TYPE OF a,b,c FASTENER	SPAC	CING OF FASTENERS	
		ROOF				
1	Blocking between joist or rafters	to top plate, toe nail	3-8d (2 1/2"x0.113")			
2 3	Ceiling joists to plate, toe nail Ceiling joists not attached to par	rallel rafter, laps over partitions, face	3-8d (2 1/2"x0.113") 3-10d		-	
4	nail Collar tie rafter, face nail or 1-1	/4"x20 gage ridge strap	3-10d (3"x0.128")	_	-	
5	Rafter to plate, toe nail		2-16d(3 1/2"x 0.135")		-	
6	Roof rafters to ridge, valley or hi toe nail face nail	p rafters:	4-16d(3 1/2"x0.135") 3-16d(3 1/2"x0.135")			
		WALL				REVISION
7	Built-up corner studs		10d (3"x0.128")		24" o.c.	
8	Built-up header, two pieces with	1/2" spacer	16d (3 1/2"x0.135")	16" o.	c. along each edge	
9	Continued header, two pieces	~il	1 od (3 1/2"x0.135")	10-0.	c. along each eage	
11	Double studs, face nail	un	10d (3"x0.128")		- 24" o.c.	
12	Double top plate, face nail		10d (3"x0.128")		24" o.c.	
13	Double top plate, minimum 48- face nail in lapped area	inch offset of end joints,	8-16d (3 1/2"x0.135")		-	
14	Sole plate to joist or blocking, fa	ce nail	16d (3 1/2"x0.135")		16" o.c.	
15	Sole plate to joist or blocking at	baced wall panels	3-16d (3 1/2"x0.135")		16" o.c.	
16	stud to sole plate, toe nail		3-8d (2 1/2"x0.113")		-	
17	Top or sole plae to stud, end na	il	2-16d (3 1/2"x0.135")		-	
18	Top plates, laps at corners and	ntersections, face nail	2-10d (3 "x0.128")		-	
19	1" brace to each stud and plate,	face nail	2-8d (2 1/2"x0.113") 2 staples 1 3/4"		-	
20	1"x6" sheathing to each bearing	, face nail	2-8d (2 1/2"x0.113") 2 staples 1 3/4"		-	
21	1"x8" sheathing to each bearing	, face nail	2-8d (2 1/2"x0.113") 3 staples 1 3/4"		-	
22	Wider than 1"x8" shearing to ear	ch bearing, face nail	3-8d (2 1/2"x0.113") 4 staples 1 3/4"		:	
	1	FLOOR				
23	Joist to sill or girder, toe nail		3-8d (2 1/2"x0.113")		-	
24	1"x6" subfloor or less to each joi	st, face nail	2-8d (2 1/2"x0.113") 2 staples 1 3/4"		-	
25	2" subfloor to joist or girder, blir	d and face nail	2-16d (3 1/2"x0.135")		-	
26	Rim joist to top plate, toe nail (ro	oof applications also)	8d (2 1/2"x0.113")		6" o.c.	
27	2" planks (planks & beam-floor	& root)	2-16d (3 1/2"x0.135")	Nail e	at each bearing each layer as follows: 32" o.c.	<i>v</i>
28	Built-up girders and beams, 2-ir	nch lumber layers	10d (3"x0.128")	at top Two n	and bottom and staggered. ails at ends and at each splice.	
29	Ledger strip supporting joists or	rafters	3-16d (3 1/2"x0.135")	At eac	h joist or rafter	
		TABLE R602.3(1)continued FASTENER SCHEDULE FOR STRUCTURAL /	MEMBERS			
				SPACIN	G OF FASTENERS	
EM	DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER b,c,e		EDGES (INCHES)	INTERMEDIATE c,e SUPPORT	
Wood str	uctural panels, subfloor, roof and in	terior wall sheathing to framing and particl	eboard wall sheathing to fran	ning		
30	3/8" - 1/2"	6d common (2"x0.113") nail (subfloor common (2"x0.131") nail (roof)	wall) 8d	6	12 ^g	
31	5/16" - 1/2"	6d common (2"x0.113") nail (subfloor common (2"x0.131") nail (roof)	wall) 8d	6	12 ^g	ШŏС
32	19/32" - 1"	8d common (2"x0.131")		6	12 ^g	II ă H
33	1 1/8" - 1 1/4"	10d common (3"x0.148") nail or 8d (2 1/2"x0.131") deformed nail	2	6	12	
		Other wall sheathing				
34	1/2" structural cellulosic fiberboard sheathing	1/2" galvanized roofing nail. 7/16" crow 16 ga. 1 1/4" long	wn or 1" crown staple	3	6	
35	25/32" structural cellulosic fiberboard sheathing	1 3/4" galvanized roofing nail. 7/16" cr 16 ga. 1 1/2" long	rown or 1" crown staple	3	6	
36	1/2" gypsum sheathing d	1 1/2" galvanized roofing nail : staple g 5/8" screws. Type W or S	alvanized, 1 1/2" long; 1	7	7	
37	5/8" gypsum sheathing d	1 3/4" galvanized roofing nail ; staple g 5/8" screws. Type W or S	alvanized, 1 5/8" long; 1	7	7	DRAWN
	Wood structur	al panels, combination subfloor underlaym	nent to framing			
38	3/4" and less	6d deformed (2"x0.120") nail or 8d		6	12	CHECKE
39	7/8" - 1"	common (2 1/2"x 0.131") nail 8d deformed (2 1/2"x0.131") nail or 8d deformed (2 1/2"x 0.120") nail		6	12	DESIGN
40	1 1/8"- 1"	10d common (3"x0.148") nail or 8d		6	12	JOSE ZAM
-0	1 1/0 - 1	deformed (2 1/2"x 0.120") nail		0	12	

ΒY N BY ED BY N BY **IBRANO** SIGNATURE **ELEVATIONS AND** SECTIONS A3



2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (January 2023)

	RESIDENTIAL MANDATOR	YN	IEA	SURES, SHEET 1
Y N/A RESPON PARTY	CHAPTER 3 GREEN BUILDING	Y N/A	RESPON. PARTY	4.106.4.2 New multifamily dwellings,
	SECTION 301 GENERAL 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the			When parking is provided, parking spac requirements of Sections 4.106.4.2.1 ar whole number. A parking space served space shall count as at least one standa applicable minimum parking space requ
	application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to			for further details. 4.106.4.2.1Multifamily development p than 20 sleeping units or guest room
	additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.			this section. 1.EV Capable. Ten (10) percent of parking facilities, shall be elect
	facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.			EVSE. Electrical load calculations system, including any on-site dist EVs at all required EV spaces at a
	Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or			The service panel or subpanel cir for future EV charging purposes a Exceptions:
	Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.			1.When EV chargers (Level 2 of EV capable spaces.
	301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.			a.Construction documents are future EV charging.
	SECTION 302 MIXED OCCUPANCY BUILDINGS			b.There is no requirement for EV chargers are installed for u
	shall comply with the specific green building measures applicable to each specific occupancy. Exceptions: 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable.			2.EV Ready . Twenty-five (25) pe Level 2 EV charging receptacles. dwelling unit when more than one
	2. [HCD] For purposes of <i>CAL</i> Green, live/work units, complying with Section 419 of the <i>California Building Code</i> , shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable.			4.106.4.2.2 Multifamily development participation of the second s
	DIVISION 4.1 PLANNING AND DESIGN ABBREVIATION DEFINITIONS: Department of Housing and Community Development			The number of dwelling units, sleeping this section. 1.EV Capable . Ten (10) percent of
	BSC California Building Standards Commission DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development LR Low Rise			of parking facilities, shall be elect EVSE. Electrical load calculations system, including any on-site dist EVs at all required EV spaces at
	HR High Rise AA Additions and Alterations N New			The service panel or subpanel cir for future EV charging purposes a
	CHAPTER 4 RESIDENTIAL MANDATORY MEASURES			parking spaces required by Se reduced by a number equal to Notes:
	SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 <i>(and are included here for reference)</i>			a.Construction documents sha b.There is no requirement for
	FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.			2.EV Ready. Twenty-five (25) pe Level 2 EV charging receptacles.
	such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.			Exception: Areas of parking fa
	 4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section. 			3.EV Chargers. Five (5) percent Where common use parking is pr area and shall be available for us
	 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site. 			an automatic load management s capacity to each space served by shall have sufficient capacity to d served by the ALMS. The branch have a capacity of not less than 3 capacity to the required EV capat
	 Neterition basis of suncient size shall be dulized to retain storm water on the site. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency. Compliance with a lawfully opacted storm water management ordinance. 			4.106.4.2.2.1 Electric vehicle charg Electric vehicle charging stations req
	Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil.			shall not be required to comply with requirements.
	(Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html) 4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface			EVCS shall comply with at least one 1.The charging space shall be k the California Building Code, Ch
	 water include, but are not limited to, the following: 1. Swales Water collection and dispersel systems 			2.The charging space shall be l Chapter 2, to the building.
	 Water collection and disposal systems French drains Water retention gardens Other water measures which keep surface water away from buildings and aid in groundwater recharge 			Exception: Electric vehicle charge Building Code, Chapter 11B, are 4.106.4.2.2.1.2, Item 3.
	Exception : Additions and alterations not altering the drainage path.			4.106.4.2.2.1.2 Electric vehicle cha The charging spaces shall be design 1 The minimum length of each EV/
	4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i> , Article 625.			2. The minimum width of each EV s
	 On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions: Where there is no local utility power supply or the local utility is unable to supply adequate power 			aisle. A 5-foot (1524 mm) wide min 12 feet (3658 mm).
	 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional 			 4.106.4.2.2.1.3 Accessible EV space and the requirements in Second Sec
	parking facilities. 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each			comply with the accessibility provision spaces and EVCS in multifamily dev 1109A.
	dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or			4.106.4.2.3 EV space requirements 1.Single EV space required. Install a circuit. The raceway shall not be less originate at the main service or subp
	concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.			proximity to the location or the proper raceway termination point, receptace have a 40-ampere minimum dedicate installed, or space(s) reserved to per
	Exemption: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in accordance with the <i>California Electrical Code</i> .			Exception: A raceway is not require installed in close proximity to the lo construction in accordance with the
	4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".			2.Multiple EV spaces required. Cons location of installed or future EV space information on amperage of installed electrical load calculations. Plan des
			ENRIIII	raceways and related components the concealed areas and spaces shall be

ATA California

hotels and motels and new residential parking facilities. ces for new multifamily dwellings, hotels and motels shall meet the nd 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest by electric vehicle supply equipment or designed as a future EV charging ard automobile parking space only for the purpose of complying with any uirements established by a local jurisdiction. See Vehicle Code Section 22511.2

projects with less than 20 dwelling units; and hotels and motels with less

units or guest rooms shall be based on all buildings on a project site subject to

of the total number of parking spaces on a building site, provided for all types tric vehicle charging spaces (EV spaces) capable of supporting future Level 2 s shall demonstrate that the electrical panel service capacity and electrical tribution transformer(s), have sufficient capacity to simultaneously charge all a minimum of 40 amperes.

rcuit directory shall identify the overcurrent protective device space(s) reserved as "EV CAPABLE" in accordance with the California Electrical Code.

EVSE) are installed in a number equal to or greater than the required number

EVSE) are installed in a number less than the required number of EV capable capable spaces required may be reduced by a number equal to the number of

e intended to demonstrate the project's capability and capacity for facilitating

EV spaces to be constructed or available until receptacles for EV charging or

ccent of the total number of parking spaces shall be equipped with low power . For multifamily parking facilities, no more than one receptacle is required per e parking space is provided for use by a single dwelling unit.

ties served by parking lifts.

projects with 20 or more dwelling units, hotels and motels with 20 or more units or guest rooms shall be based on all buildings on a project site subject to

of the total number of parking spaces on a building site, provided for all types tric vehicle charging spaces (EV spaces) capable of supporting future Level 2 s shall demonstrate that the electrical panel service capacity and electrical tribution transformer(s), have sufficient capacity to simultaneously charge all a minimum of 40 amperes.

rcuit directory shall identify the overcurrent protective device space(s) reserved as "EV CAPABLE" in accordance with the California Electrical Code.

s (Level 2 EVSE) are installed in a number greater than five (5) percent of ection 4.106.4.2.2, Item 3, the number of EV capable spaces required may be the number of EV chargers installed over the five (5) percent required.

all show locations of future EV spaces.

EV spaces to be constructed or available until receptacles for EV charging or

ccent of the total number of parking spaces shall be equipped with low power . For multifamily parking facilities, no more than one receptacle is required per e parking space is provided for use by a single dwelling unit.

acilities served by parking lifts.

of the total number of parking spaces shall be equipped with Level 2 EVSE. rovided, at least one EV charger shall be located in the common use parking se by all residents or guests.

rging receptacles or Level 2 EVSE are installed beyond the minimum required. system (ALMS) may be used to reduce the maximum required electrical the ALMS. The electrical system and any on-site distribution transformers leliver at least 3.3 kW simultaneously to each EV charging station (EVCS) circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall 30 amperes. ALMS shall not be used to reduce the minimum required electrical ble spaces.

ging stations (EVCS). quired by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1.

g stations serving public accommodations, public housing, motels and hotels h this section. See California Building Code, Chapter 11B, for applicable

of the following options:

ocated adjacent to an accessible parking space meeting the requirements of hapter 11A, to allow use of the EV charger from the accessible parking space. located on an accessible route, as defined in the California Building Code,

ging stations designed and constructed in compliance with the California e not required to comply with Section 4.106.4.2.2.1.1 and Section

arging stations (EVCS) dimensions. gned to comply with the following:

space shall be 18 feet (5486 mm).

space shall be 9 feet (2743 mm).

s, but not less than one, shall also have an 8-foot (2438 mm) wide minimum nimum aisle shall be permitted provided the minimum width of the EV space is

and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083

ces. ections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall ons for EV chargers in the California Building Code, Chapter 11B. EV ready elopments shall comply with California Building Code, Chapter 11A, Section

a listed raceway capable of accommodating a 208/240-volt dedicated branch s than trade size 1 (nominal 1-inch inside diameter). The raceway shall banel and shall terminate into a listed cabinet, box or enclosure in close osed location of the EV space. Construction documents shall identify the e or charger location, as applicable. The service panel and/ or subpanel shall ed branch circuit, including branch circuit overcurrent protective device rmit installation of a branch circuit overcurrent protective device.

ed if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is ocation or the proposed location of the EV space, at the time of original e California Electrical Code.

struction documents shall indicate the raceway termination point and the ces, receptacles or EV chargers. Construction documents shall also provide d or future receptacles or EVSE, raceway method(s), wiring schematics and sign shall be based upon a 40-ampere minimum branch circuit. Required hat are planned to be installed underground, enclosed, inaccessible or in e installed at the time of original construction.

Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space at the time of original construction in accordance with the California Electrical Code.

4.106.4.2.4 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.

4.106.4.2.5 Electric Vehicle Ready Space Signage.

Y N/A RESPON. PARTY

Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings. When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or

altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Notes:

1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.

DIVISION 4 2 rementing Reades EFFICIENCY available until EV chargers are installed for use. 4.201 GENERAL

4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION 4.303 INDOOR WATER USE

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.4.4.

Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with plumbing fixtures. Plumbing fixture replacement is required prior to issuance of water-conserving completion, certificate of occupancy, or final permit approval by the a certificate of final Code Section 1101.1, et seq., for the definition of a local building department. See Civil noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.

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

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush of two reduced flushes and one full flush. volume

4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush. flush.

4.303.1.3 Showerheads.

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

4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than showerhead, the combined flow rate of all the showerheads and/or other shower outlets one a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower controlled by allow one shower outlet to be in operation at a time. shall be designed to only

Note: A hand-held shower shall be considered a showerhead.

4.303.1.4 Faucets.

WATER CLOSET

URINALS

4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory not be less than 0.8 gallons per minute at 20 psi. faucets shall

4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of faucets installed in common and public use areas (outside of dwellings or sleeping units) in lavatory residential buildings shall not exceed 0.5 gallons per minute at 60 psi.

4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle.

4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the gallons 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 minute at 60 psi.

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

4.303.1.4.5 Pre-rinse spray valves.

When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and (Appliance (d)(7) and shall be equipped with an integral automatic shutoff. Section 1607

FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h) (4) and 1605.3 (h)(4)(A). Section

TABLE H-2 STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019 PRODUCT CLASS MAXIMUM FLOW RATE (gpm) [spray force in ounce force (ozf)] Product Class 1 (\leq 5.0 ozf) 1.00 Product Class 2 (> 5.0 ozf and \leq 8.0 ozf) 1.20 Product Class 3 (> 8.0 ozf) 1.28 Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray values manufactured on or after 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)[113 January grams-force(gf)]

4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial

buildings. Submeters shall be installed to measure water usage of individual rental dwelling units in accordance California Plumbing Code. with the

4.303.3 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table NOTE: 1701.1 of the *California Plumbing Code*.

THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER. TABLE - MAXIMUM FIXTURE WATER USE FIXTURE TYPE FLOW RATE

SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI LAVATORY FAUCETS (RESIDENTIAL) MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI LAVATORY FAUCETS IN COMMON & PUBLIC USE 0.5 GPM @ 60 PSI ARFAS KITCHEN FAUCETS 1.8 GPM @ 60 PSI 0.2 GAL/CYCLE METERING FAUCETS

1.28 GAL/FLUSH

0.125 GAL/FLUSH

	Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)	
Y N/A RESPON. PARTY	4.304 OUTDOOR WATER USE 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS . Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.	
	1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/	
	DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	REVISION BY
	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:	
	 Excavated soil and land-clearing debris. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility. 	
	4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.	
	 Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream). Identify diversion facilities where the construction and demolition waste material collected will be taken. Identify construction methods employed to reduce the amount of construction and demolition waste generated. Specify that the amount of construction and demolition waste materials diverted shall be calculated with the amount of construction and demolition waste materials diverted shall be 	2030
	 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 a sector and a large different and a large different and the large different and the sector. 	
	Note: The owner or contractor may make the determination if the construction and demolition waste waste materials will be diverted by a waste management company.	Ú Ú
	4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1	ATOS
	4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1	ANA S GA
	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	CAB/ E LO
		DRIV
	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:	SED P(
	 Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure. Operation and maintenance instructions for the following: 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. Roof and yard drainage, including gutters and downspouts. Space conditioning systems, including condensers and air filters. Landscape irrigation systems. 	PROJECT: PROPO: ADDRESS: 19910 SU
	 e. Water reuse systems. 3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations. 4. Public transportation and/or carpool options available in the area. 5. Educational material on the positive impacts of an interior relative humidity between 20 (0) 	DRAWN BY
	 between so-so 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 	
	 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 	JOSE ZAMBRANO
	 code. 11. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures. 12. Information and/or drawings identifying the location of grab bar reinforcements. 	
	4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.	SIGNATURE
	Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section DINISION: 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 The following terms are defined in Observe 2 (and under the three for a for a formation) 	
	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.	GREEN CODE
	COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1	
	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.	

TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.



2022 CALIFORNIA GREEN BUILDING STANDARDS CODE **RESIDENTIAL MANDATORY MEASURES, SHEET 2** (January 2023)

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<text></text>				MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone for compound to the "Base Peractive Organic Case (POC) Mixture" per weight of compound to the "Base Peractive Organic Case (POC) Mixture" per weight of compound to the maximum change in weight of compound to	ormed by adding a	TABLE 4.504.2
				to hundred this of a gram (g O^3/g ROC).	R Title 17 Sections	SFALANTS
				94700 and 94701.		ARCHITECTURAL
<form></form>				MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the w	reight of the	MARINE DECK
				PRODUCT-WEIGHTED MIR (PWMIR) The sum of all weighted-MIR for all ingredients in a pr	oduct subject to	NONMEMBRANE R
Control of the c				this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of product (excluding container and packaging)	f ozone formed per	ROADWAY
Control Control <t< td=""><td></td><td></td><td></td><td>Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (</td><td>a).</td><td>SINGLE-PLY ROOF</td></t<>				Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).	SINGLE-PLY ROOF
				REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once en	hitted, to contribute	
before on the difference of the difference				VOC A volatile organic compound (VOC) broadly defined as a chemical compound be	sed on carbon	ARCHITECTURAL
Image: Section of Section Control of Package Section Section Control of Package Section				chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temper	erature. These	NON-POROUS
Image: Section of the section of t				Title 17, Section 94508(a).		POROUS
Image: Section of the sectio				4.503 FIREPLACES	v Seratalla d	MODIFIED BITUMIN
Image: Set of the state of the sta				4.503.1 GENERAL . Any installed gas fireplace shall be a direct-vent sealed-combustion type. An woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSP	S) emission limits as	MARINE DECK
 Appendix PCPLLITATIC CONTROL Appendix PCPLLITATIC CONTROL Appendix PCPLLITATIC CONTROL Appendix PCPLITATIC CONTROL PCPLITATIC CONTROL PCPLITATIC Appendix PCPLITATIC CONTROL PCPLITATIC CONTROL PCPLITATIC Appendix PCPLITATIC CONTROL PCPLITATIC CONTROL PCPLITATIC Appendix PCPL				pellet stoves and fireplaces shall also comply with applicable local ordinances.	its. woodstoves,	OTHER
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Image: Control of the contro				reduce the amount of water, dust or debris which may enter the system.		TABLE 4.504.
Alg. 4.1 Additions, Baranta and Caulta, And Early, Baranta and Caulta, Serie and Serie and Serie and Series and Seri				4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this se	ction.	ARCHITECTU
Interpretent (difficulture) In Advanced accesses In Advanc				4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the requirements of the following standards unless more stringent local or regional air pollution	oroject shall meet the or air quality	
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Applied and the Court of t				 Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant prime shall comply with local or regional air pollution control or air quality management 	rs and caulks district rules where	FLAT COATINGS
Conceptional genomes and several sections and				applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.5 Such products also shall comply with the Rule 1168 prohibition on the use of cert	04.2, as applicable. tain toxic	NON-FLAT COAT
Comparison of the second set second reaction of the second reaction of the second reaction of the second set of the second s				compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethyle tricloroethylene), except for aerosol products as specified in Subsection 2 below	ene and	NONFLAT-HIGH
Image: Second				2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking	compounds (in	SPECIALTY COA
Image: Second				units of product, less packaging, which do not weigh more than 1 pound and do than 16 fluid ounces) shall comply with statewide VOC standards and other requ	not consist of more irements. including	
Image: Second		$\left - \right $		prohibitions on use of certain toxic compounds, of <i>California Code of Regulation</i> commencing with section 94507	s, Title 17,	
Image: Control of the state				4 504 2 2 Paints and Coatings Architectural points and coatings shall comply with VOC	imits in Table 1 of	BITLIMINOUS ROO
Image: Set of the set				the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless mor	e stringent local limits	BOND BREAKERS
Control of the second sec				listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or V	Ionflat-High Gloss	CONCRETE CUR
Image: Second Processing and Costings: Acrosol paints and costings shall meet the Product-weighted ME Levels ArX in Society Processing and Costings: Acrosol paints and costings: Acrosol pa				Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High G	oss VOC limit in	CONCRETE/MAS
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A. 496.24 Worldation, Vertication of compliance with this estation shall be provided at the request of the embrang agency. Concentration many marks, but it set difference of marks provided set of the following. A concentration marks and approximation and the following. A concentration marks and approximation of the following. A concentration marks and provided set of the following. A concentration marks and provided set of the following. A concentration marks and provided set of the following. A concentration marks and provided set of the following. A concentration marks and provided set of the following. A concentration marks and provided set of the following. A concentration marks and provided set of the following and provided set of the following. A concentration marks and provided set of the following and provided set of the foll				8, Rule 49.	t limits of Regulation	
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MANAGEMENT DISTRICT RULE 1168.				2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE TH VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY	HE	
				MANAGEMENT DISTRICT RULE 1168.		

BLE 4.504.2 - SEALANT VOC LIMIT	
ss Water and Less Exempt Compounds in G	rams per Liter)
ALANTS	VOC LIMIT
CHITECTURAL	250
ARINE DECK	760
DNMEMBRANE ROOF	300
ADWAY	250
IGLE-PLY ROOF MEMBRANE	450
HER	420
ALANT PRIMERS	
CHITECTURAL	
NON-POROUS	250
POROUS	775
DDIFIED BITUMINOUS	500
ARINE DECK	760
HER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS2.3

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

GORY	VOC LIMIT
	50
TINGS	100
GLOSS COATINGS	150
ATINGS	
OF COATINGS	400
IALTY COATINGS	400
OF COATINGS	50
OF PRIMERS	350
5	350
ING COMPOUNDS	350
SONRY SEALERS	100
ERS	50
INGS	150
COATINGS	350
OATINGS	350
GS	100
Compounds	250
COATINGS (SIGN PAINTS)	500
URE COATINGS	420
NTENANCE COATINGS	250
ATINGS	120
MENT COATINGS	450
COATINGS	100
ENTED COATINGS	500
DATINGS	250
WASH PRIMERS	420
RS, & UNDERCOATERS	100
RATING SEALERS	350
TINGS	250
S	50
TVE COATINGS	250
	730
	550
ERS, SEALERS &	100
	250
IDANTS	450
DL COATINGS	340
IG COATINGS	100
ISH COATINGS	420
G MEMBRANES	250
GS	275
ATIVES	350
ERS	340

. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT

. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE

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

AVAILABLE FROM THE AIR RESOURCES BOARD.

Y	N/A RESPON. PARTY		
		TABLE 4.504.5 - FORMALDEHYDE LIM	ITS ₁
		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 THO CALIF. AIR RESOURCES BOARD, AIR TOXICS CON COMPOSITE WOOD AS TESTED IN ACCORDANC FOR ADDITIONAL INFORMATION, SEE CALIF. CO TITLE 17, SECTIONS 93120 THROUGH 93120.12.	DSE SPECIFIED BY THE NTROL MEASURE FOR E WITH ASTM E 1333. DE OF REGULATIONS,
		2. THIN MEDIUM DENSITY FIBERBOARD HAS A M/ 5/16'' (8 MM).	AXIMUM THICKNESS OF
		DIVISION 4.5 ENVIRONMENTAL QUA 4.504.3 CARPET SYSTEMS. All carpet installed in the building inter California Department of Public Health, "Standard Method for the Chemical Emissions from Indoor Sources Using Environmental Chor testing method for California Specification 01350)	LITY (continued) erior shall meet the requirements of the e Testing and Evaluation of Volatile Orgo ambers," Version 1.2, January 2017 (Emis
		See California Department of Public Health's website for certifica	tion programs and testing labs.
_	_	4 504 2 1 Carpet auchian All carpet curbian installed in the	huilding interior chall most the requirem
		of the California Department of Public Health, "Standard Me Volatile Organic Chemical Emissions from Indoor Sources L January 2017 (Emission testing method for California See California Department of Public Health's website for ce	ethod for the Testing and Evaluation of Jsing Environmental Chambers," Version nia Specification 01350)
		https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHL	B/IAQ/Pages/VOC.aspx.
		4.504.4. DESULENT EL OODING EVETENCE MULTURE SHAll meet th	
		4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring receiving resilient flooring shall meet the requirements of the Calia "Standard Method for the Testing and Evaluation of Volatile Orgo Using Environmental Chambers," Version 1.2, January 2017 (Emissi Specification 01350)	is installed , at least 80% of floor area fornia Department of Public Health, inic Chemical Emissions from Indoor Sou on testing method for California
		See California Department of Public Health's website for certifica hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAG	tion programs and testing labs. Q/Pages/VOC.aspx.
		4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, po	articleboard and medium density fiberb
		for formaldehyde as specified in ARB's Air Toxics Control 93120 et seq.), by or before the dates specified in those sectio 4.504.5.1 Documentation. Verification of compliance with t	Measure for Composite Wood (17 CCR ns, as shown in Table 4.504.5 his section shall be provided as request
		by the enforcing agency. Documentation shall 1. Product certifications and specifications.	include at least one of the following:
		 Chain of custody certifications. Product labeled and invoiced as meeting the Co CCR, Title 17, Section 93120, et seq.). Exterior grade products marked as meeting the P Wood Association, the Australian AS/NZS 22 Canadian CSA 0121, CSA 0151, CSA 0153 and 0 	mposite Wood Products regulation (see S-1 or PS-2 standards of the Engineered 69, European 636 3S standards, and CSA 0325 standards.
		5. Other methods acceptable to the enforcing age	ncy.
		 4.505 IN LERIOR MOIS FURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the statement of the sta	the <i>California Building Standards Code</i> . Itions required to have a vapor retarder
		California Building Code, Chapter 19, or concrete slab-on-ground by the California Residential Code, Chapter 5, shall also comply v 4.505.2.1 Capillary break. A capillary break shall be installed following:	d floors required to have a vapor retard with this section. d in compliance with at least one of the
		1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7m) provided with a vapor barrier in direct contact with will address bleeding, shrinkage, and curling, shall be American Concrete Institute, ACI 302.2R-06. 2. Other equivalent methods approved by the enfo 3. A slap design specified by a licensed design profe	m) or larger clean aggregate shall be concrete and a concrete mix design, v used. For additional information, see rcing agency.
		4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building damage shall not be installed. Wall and floor framing shall not be exceed 19 percent moisture content. Moisture content shall be	g materials with visible signs of water enclosed when the framing members verified in compliance with the following
		1. Moisture content shall be determined with either a probmeter.Equivalentmoisture verification methods may beshall satisfy requirementsfound in Section 101.8 of t2. Moisture readings shall be taken at a point 2 feet (610 nstamped endof each piece verified.3. At least three random moisture readings shall be performdocumentationacceptable to the enforcing agency	e-type or contact-type moisture approved by the enforcing agency ar his code. nm) to 4 feet (1219 mm) from the grade med on wall and floor framing with provided at the time of approval to
		enclose the wall and floor framing. Insulation products which are visibly wet or have a high moisture prior to enclosure in wall or floor cavities. Wet-applied insulation	content shall be replaced or allowed to 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 mechar 	nically ventilated and shall comply with
		following:1. Fans shall be ENERGY STAR compliant and be ducted to2. Unless functioning as a component of a whole house vertices.	o terminate outside the building. entilation system, fans must be controlle
		a humidity control. a. Humidity controls shall be capable of adjustment	between a relative humidity range less
		automatic means of adjustment. b. A humidity control may be a separate componer be integral (i.e., built-in)	nt to the exhaust fan and is not required
		 For the purposes of this section, a bathroom is a rotub/shower combination. Lighting integral to bathroom exhaust fans shall complete the section of the section. 	oom which contains a bathtub, shower o omply with the <i>California Energy Code</i> .
		4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heat sized, designed and have their equipment selected using the following the followi	ating and air conditioning systems shall owing methods:
		 The heat loss and heat gain is established according to Load Calculation), ASHRAE handbooks or other e Duct systems are sized according to ANSI/ACCA 1 Man ASHRAE handbooks or other equivalent design so Select heating and cooling equipment according to AN Equipment Selection), or other equivalent design 	ANSI/ACCA 2 Manual J - 2011 (Residen quivalent design software or methods. ual D - 2014 (Residential Duct Systems), ftware or methods. NSI/ACCA 3 Manual S - 2014 (Residentic software or methods.
		Exception: Use of alternate design temperatures necessary acceptable.	y to ensure the system functions are

			Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)	
	Y N/	A RESPON. PARTY		
			CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS	
-		3	 702 QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following: 1. State certified apprenticeship programs. 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations. 	REVISION BY
		1	5. Other programs acceptable to the enforcing agency. 702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the	
			responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:	
			 Certification by a national or regional green building program or standard publisher. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors. Successful completion of a third party apprentice training program in the appropriate trade. Other programs acceptable to the enforcing agency. 	
			 Notes: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS). 	
			[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification 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.	30
-]	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	950
			the appropriate section or identified applicable checklist.	CT: DPOSED POOL CABANA ESS: 10 SUNSET DRIVE LOS GATOS, C
				DRAWN BY
				CHECKED BY
				DESIGN BY JOSE ZAMBRANO
				SIGNATURE
				GREEN CODE
				G2

GENERAL NOTES

- THE BUILDING PLANS ARE NOT INTENDED TO BE COMPREHENSIVE AND IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO NOTIFY THE OWNER AND / OR THE DESIGNER OR ANY NECESSARY CLARIFICATIONS OR MODIFICATIONS.
- ALL INFORMATION PERTAINING TO THE SITE SHALL REMAIN THE OWNERS RESPONSIBILITY SITE INFORMATION SHALL INCLUDE LEGAL DESCRIPTION, DEED RESTRICTIONS, EASEMENTS, SITE SURVEYS, STREET AND UTILITY IMPROVEMENTS. GEOTECHNICAL INVESTIGATIONS AND REPORTS, GRADING AND EXCAVATION, LANDSCAPING, DRAINAGE, AND ALL RELATED DATA.
- ALL WORK CONNECTED WITH THIS PROJECT SHALL BE DONE IN PROFESSIONAL MANNER IN ACCORDANCE WITH THE TRADITIONALLY AND LEGALLY DEFINED "BEST ACCEPTED PRACTICE" OF THE TRADE INVOLVED. ADDITIONALLY, ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND TRADE STANDARDS WHICH GOVERN EACH BUILDING CODE: THE CITY HAS ADOPTED THE: 2022

2022	CALIFORNIA	BUILDING CODE
2022	CALIFORNIA	MECHANICAL CODE
2022	CALIFORNIA	FIRE CODE
2022	CALIFORNIA	PLUMBING CODE
2022	CALIFORNIA	RESIDENTIAL CODE
2022	CALIFORNIA	ELECTRICAL CODE

CODES (I.E., 2021 IBC, IFC, IRC, UMC, UPC, AND 2019 NEC AS AMENDED BY THE STATE OF CALIFORNIA)

2022 CALIFORNIA ENERGY CODE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

- THE OWNER SHALL BE RESPONSIBLE FOR NOTIFYING THE DESIGNER AND/OR ENGINEER FOR ANY UNUSUAL OR UNFORESEEN STRUCTURAL CONDITIONS. DISCREPANCIES OR OMISSIONS WITHIN THE CONSTRUCTION DOCUMENTS OR ANY DEVIATIONS OR CHANGES FROM THE DOCUMENTS BEFORE PROCEEDING WITH THE WORK INVOLVED; OTHERWISE THEY WILL BE CONSIDERED ADEQUATE FOR PROPER COMPLETION OF THE PROJECT.
- ADEQUATE SUPERVISION AND PERIODIC INSPECTION DURING THE CONSTRUCTION PHASE ARE RECOMMENDED. THE OWNER SHALL BE RESPONSIBLE TO INSURE THAT THIS INSPECTION AND SUPERVISION ARE PROVIDED BY QUALIFIED PERSONS.
- THE GENERAL CONTRACTOR AND EACH SUPERVISOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL DIMENSIONS AND MEASUREMENTS PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE DESIGNER AND OWNER'S ATTENTION PRIOR TO COMMENCING ANY WORK. IN THE EVENT WORK COMMENCED WITH FAILURE TO NOTIFY BOTH THE DESIGNER AND OWNER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY AND ALL, CORRECTIVE MEASURES OR ERRORS.
- NO GUARANTEE FOR QUALITY OF CONSTRUCTION IS IMPLIED OR INTENDED BY THE CONSTRUCTION DOCUMENTS AND THE GENERAL CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL CONSTRUCTION DEFICIENCIES.
- THE GENERAL CONTRACTOR SHALL HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGNER AND ENGINEER FROM ANY ACTION INITIATED BY THE INITIAL OWNER OR ANY SUBSEQUENT OWNERS FOR CONSTRUCTION DEFICIENCIES, MODIFICATIONS OR SUCH CONDITIONS WHICH MAYBE BEYOND THE CONTROL OF THE DESIGNER OR ENGINEER.
- THESE DOCUMENTS ARE INTENDED FOR USE IN NEGOTIATED CONSTRUCTION CONTRACT AND, THEREFORE, MAY NOT SPECIFICALLY DETAIL OR SPECIFY MATERIALS AND / OR MANUFACTURERS. THE GENERAL CONTRACTOR SHALL PROVIDÉ ALL SAMPLES AS REQUIRED. TO ASSIST THE OWNER IN MAKING MATERIAL OR EQUIPMENT SELECTIONS OR COMPARISON. FOR THE PURPOSE OF ESTIMATING. THE GENERAL CONTRACTOR SHALL USE MATERIALS SELECTED BY THE OWNER. OR IN THE ABSENCE OF OWNER, HE SHALL PROVIDE AN ALLOWANCE AMOUNT. AND SO CONDITION ANY COST ESTIMATE. ALL MATERIALS SPECIFIED IN THESE DOCUMENTS SHALL BE INCLUDED IN ANY ESTIMATES.
- . THE GENERAL CONTRACTOR SHALL REVIEW AND RECORD ALL EXISTING CONDITIONS. INCLUDING PAVED AREAS. HE SHALL MAKE KNOWN ALL EXISTING DAMAGED OR DISREPAIRED ITEMS AND CONDITIONS THAT MAY WORSEN DUE TO THE PROPOSED CONSTRUCTION. ALL EXISTING ITEMS AND CONDITIONS IN GOOD CONDITION SHALL BE MAINTAINED IN THEIR PRESENT CONDITION AND ANY REPAIR OR DAMAGE WHICH OCCURS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE CONSTRUCTION DOCUMENTS SHALL NOT BE CONSIDERED COMPLETE AND READY FOR CONSTRUCTION UNTIL A BUILDING PERMIT HAS BEEN ISSUED. EXAMINATION OF SITE: THE GENERAL CONTRACTOR SHALL THOROUGHLY EXAMINE THE SITE AND SATISFY HIMSELF AS TO THE CONDITION UNDER WHICH THE WORK IS TO BE PERFORMED.
- . THE GENERAL CONTRACTOR SHALL VERIFY AT THESE SITE. ALL MEASUREMENTS AFFECTING HIS WORK AND SHALL BE RESPONSIBLE FOR CORRECTNESS OF SAME. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY EXPENSES DUE TO NEGLECT TO EXAMINE OR FAILURE TO DISCOVER CONDITIONS WHICH MAY AFFECT HIS WORK.
- EXAMINATION OF EXISTING PLUMBING AND ELECTRICAL; IN ANY CASE WHERE A NEW LINE MAY TIE INTO AN EXISTING LINE WITHIN THE LIMITS OF THE RENOVATION WORK. THE GENERAL CONTRACTOR OR HIS SUBCONTRACTOR SHALL EXAMINE THE ENTIRE EXISTING LINE. AND DETERMINE WHETHER THE NEW WORK WILL ADVERSELY BE AFFECTED BY IT. AND NOTIFY THE OWNER AND THE DESIGNER OF ANY SUCH DEFECT BEFORE COMMENCING WORK.
- 3. THE DESIGNER AND ENGINEER ARE NOT RESPONSIBLE FOR PERMITS OF ANY KIND. THE DESIGNER'S AND ENGINEER'S LIABILITY IS LIMITED TO THE CORRECTION OF THE DRAWINGS.

THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF HIS PERSONNEL. PUBLIC SAFETY AND COMPLIANCE WITH ALL STATE, LOCAL AND FEDERAL AGENCY.

THESE PLAN SHALL NOT BE REPRODUCED IN ANY WAY WITHOUT THE WRITTEN

PROJECT DESIGN CRITERIA

<u>GOVERNING BUILDING CODE</u>	
2022 CALIFORNIA BUILDING CODE	
GENERAL PARAMETERS NUMBER OF STORIES MAX HEIGHT (ABV. GRADE) ROOF FLOOR WALLS (INTERIOR) WALLS (EXTERIOR)	1 12.5' DL / LL 12 / 20 PSF DL / LL 15 / 40 PSF DL 8 PSF DL 17 PSF
<u>GEOTECHNICAL PARAMETERS</u> GEOTECHNICAL REPORT SOIL BEARING PRESSURE	NO 1500 PSF
WIND DESIGN PARAMETERS DESIGN PROCEDURE BASIC WIND SPEED EXPOSURE IMPORTANCE FACTOR INTERNAL PRESSURE COEFF. DESIGN WIND PRESSURE	SIMPLIFIED, ASD 92 MPH C 1.00 0.18 11.53 PSF 00 TO 15 FEET 12.25 PSF 15 TO 20 FEET 12.84 PSF 20 TO 25 FEET
SEISMIC DESIGN PARAMETERS DESIGN PROCEDURE SITE CLASS IMPORTANCE FACTOR OCCUPANCY CATEGORY MAPPED SPECTRAL RESPONSE SPECTRAL RESPONSE COEFFICIENT SEISMIC DESIGN CATEGORY SEISMIC FORCE RESISTING SYSTEM RESPONSE MODIFICATION FACTOR SEISMIC RESPONSE COEFFICIENT: ANALYSIS PROCEDURE USED	EQUIV. FORCE D 1.00 II SS = 2.567 S1 = 0.88 SDS = 2.1 SD1 = 0.9 SDC = D WOOD SHEAR WALL R = 6.5 Cs.= 0.316 ASD

STRUCTURAL SHEET INDEX

S-1	FOUNDATION & ROOF FRAMING PLAN
SD-1	STANDARD DETAILS
SD-2	STANDARD DETAILS
SD-3	STANDARD DETAILS
FD-1	FOUNDATION DETAILS
WD-1	WOOD DETAILS
WSWH1	WOOD STRONG-WALL DETAILS
WSWH2	WOOD STRONG-WALL DETAILS

SPECIAL INSPECTION

1.-SHEARWALL w/FASTENERS @4" O.C. OR LESS





FOUNDATION &

ROOF FRAMING

PLAN

5-

SHEET NO.



BAR DIA. BEND DIA. CC CC CC CC CC CC CC CC CC C	CLASS A & B BAR LAP SPLICE LENGTHS (INCHES) Id = DEVELOPMENT LENGTH OF BAR Id A B Id A B Id A B BAR SIZE Id A B Id A B Id A B # 5 30 30 39 27 27 36 24 24 31 # 4 24 24 31 22 22 28 19 19 25 # 5 30 30 39 27 27 36 24 24 31 # 6 36 36 47 33 33 43 28 37 # 7 53 53 68 48 48 62 42 42 54 # 8 60 60 78 55 55 71 47 47 62 # 9 68 68 86 62 62 80 54 54 54 # 10 76 76 99 70 70 77 60 60 78 5 # 10
BAR BENDS AND TIES SCALE: 3/4" = 1'-0"	TYPICAL LAP SPLICE SCHEDULE SCALE: 3/4" = 1'-0"





AFTER USE DBL RAFTER WHERE 3" WIDE STRAP OCCURS. CONN TO PLATE w/LTP4. ROOF PLY BLOCKING @ 4'-0" OC w/10d @ 4" OC TO RF PLY & H2.5 TO PLATE FRAMING ANCHOR EARWALL PARALLEL O RAFTER-RAFTER	BN (10d USE DBL BLKG WHERE 3" WIDE STRAP OCCURS. CONN TO PLATE w/LTP4	© 4' MIN.)	PERPENDICULAR TO RAFTER	YEE
TO RAFTER-RAFTER SCALE: 3/4" = 1'-0"	3 SHEARWALL	- PERPEN	DICULAR TO RAFTER SCALE:	3/4" = 1'-0"
SHEAR WALL SCHEDULE		NOTE #12		
N SHEAK IRANSFER SILL NOTE #11 (SEE NOTE NAILING OF CLIPS (T.N.) SOD A COL	ANCHOR BOLTS (A.B.'S)	SHEAR WALL CAPACITY (#/)		
AT 6" O.C. E.N. A35 @ 16" O.C. OR A35 @ 16" O.C. OR A35 @ 16" O.C. OR	$\begin{array}{c c} & \text{REMARKS: SHEAR BOLTS} \\ \hline \\ \text{O.C.} & 5/8" \phi \text{ A.B. AT } 4'-0" \cap C \\ \hline \end{array}$	260		
AI 12" O.C. F.N. LTP4 AT 24" O.C. LTP4 AT 24" O.C. AI 4" O.C. E.N. AI 4" O.C. E.N. AI 40" O.C. OR	5/8"¢ A.B. AT 3'-3" OC	380		
AI 12" O.C. F.N. LTP4 AT 20" O.C. J AT 3" O.C. E.N. A35 @ 10" O.C. OR AT 12" O.C. F.N. LTP4 AT 16" O.C.	5/8"¢ A.B. AT 2'-4" O.C.	490	USE 3× P.T.D.F. MUDSILL AT	
AT 2" O.C. E.N. A35 @ 10" O.C. OR AT 12" O.C. F.N. LTP4 AT 12" O.C.	5/8"ø A.B. AT 1'-8" O.C.	636	FOUNDATION FOR SHEAR WALL TYPE BELOW: (OTHER-WISE USE 2x P.T.D.F. MUDSILL	
d AT 2" O.C. E.N. 2-A35 @ 12" O.C. OR d AT 12" O.C. F.N. LTP4 AT 10" O.C. d AT 2" O.C. F.N. 2 A35 @ 12" O.C. OD	5/8"ø A.B. AT 1'-6" O.C.	770	W/ REDUCED A.B.'S SPACING BY HALF (1/2") AS SHOWN ON SHEAR WALL SCHEDULE	
a ai 2 u.c. e.n. d at 2 u.c. e.n. d at 12" u.c. f.n. LTP4 at 8" u.c.	5/8"ø A.B. AT 1'-4" O.C.	870	W/ 3" SQ. x 1/4" THK. WASHER PLATE)	
AT 3" O.C. E.N. AT 12" O.C. F.N. 2-A35 @ 12" O.C. OR LTP4 AT 8" O.C.	5/8"ø A.B. AT 1'-2" O.C.	980	USE 3x P.T.D.F. MUDSILL AT	
NOTE #10 AT 2" O.C. E.N. AT 12" O.C. F.N. SIDE, STAGGER	5/8"ø A.B. AT 11" O.C.	1272	TYPE BELOW: 4 5 6 6	
d AT 2" O.C. E.N. d AT 2" O.C. F.N. LTP4 AT 8" O.C. EACH SIDE, STAGGER	5/8"ø A.B. AT 8" O.C.	1740	$\begin{array}{c c} \hline 3 \\ \hline 3 \\ \hline 3 \\ \hline \end{array} \end{array} \begin{array}{c} 4 \\ \hline 4 \\ \hline 6 \\ \hline 6 \\ \hline \end{array}$	

















450 Calle Viento, Morgan Hill, CA 95037 Phone: (408) 659 5580 Email: jose@gd-se.com

Structural Calculations

For: New Pool Cabana Into a 1-Story Structure At: Residence: 19910 Sunset Dr, Los Gatos, CA 95030

> Prepared for Jose

> > 02/17/25

Job Number: GDSE_23023



Angelito Perez P.E. Professional Engineer, C 68198



New Pool Cabana

Residence: 19910 Sunset Dr, Los Gatos, CA 95030

Date: February 17, 2025 Projet No.: GDSE_23023



Vecinity Maps and streetview Images





New Pool Cabana Residence: 19910 Sunset Dr, Los Gatos, CA 95030 Date: February 17, 2025 Projet No.: GDSE_23023

Vecinity Maps and streetview Images





New Pool Cabana Residence: **19910 Sunset Dr, Los Gatos, CA 95030** Date: February 17, 2025 Projet No.: GDSE_23023

Vecinity Maps and streetview Images







New Pool Cabana Residence: **19910 Sunset Dr, Los Gatos, CA 95030** Date: February 17, 2025 Projet No.: GDSE_23023

VERTICAL LOADING

<mark>6</mark> :12

ROOFING
A. Roof Dead Load:
Typical Roof Slope

Roofing - Asphalt	5.50	psf
Plywood/Sheathing	1.50	psf
Rafters 2x @ 16 oc	1.50	psf
Insulation	1.00	psf
Misc.	0.50	psf
	10.00	psf
Adj. for slope	12.00	psf

B. Roof Live Load:

20.00 psf per IBC

EXTERIOR WALL		
Gypsum	2.50	psf
Studs	1.00	psf
Insulation	1.00	psf
Plywood & Misc.	2.50	psf
Stucco	10.00	psf
	17.00	psf

INTERIOR WALL		
Gypsum	2.50	psf
Studs	1.00	psf
Insulation	1.00	psf
Misc.	1.00	psf
Gypsum	2.50	psf
	8.00	psf

USGS web services were down for some period of time and as a result this tool wasn't operational, resulting in *timeout* error. USGS web services are now operational so this tool should work as expected.



OSHPD

19910 Sunset Dr, Los Gatos, CA 95030, EE. UU.

Latitude, Longitude: 37.2426057, -122.0210196

Goog	gle	Su Dr Glen Una Dr Co Sky Oaks Way Sky Oaks Way Map data ©202
Date		17/2/2025, 6:02:51 p.m.
Design Co	de Reference Document	ASCE7-16
Risk Categ	gory	II
Site Class		D - Default (See Section 11.4.3)
Туре	Value	Description
SS	2.567	MCE _R ground motion. (for 0.2 second period)
S ₁	0.889	MCE _R ground motion. (for 1.0s period)
S _{MS}	3.08	Site-modified spectral acceleration value
S _{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S _{DS}	2.054	Numeric seismic design value at 0.2 second SA
S _{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA
Туре	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
Fa	1.2	Site amplification factor at 0.2 second
Fv	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	1.051	MCE _G peak ground acceleration
F _{PGA}	1.2	Site amplification factor at PGA
PGAM	1.261	Site modified peak ground acceleration
TL	12	Long-period transition period in seconds
SsRT	2.665	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	2.965	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.567	Factored deterministic acceleration value. (0.2 second)
S1RT	1.084	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	1.225	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.889	Factored deterministic acceleration value. (1.0 second)
PGAd	1.051	Factored deterministic acceleration value. (Peak Ground Acceleration)
PGA _{UH}	1.173	Uniform-hazard (2% probability of exceedance in 50 years) Peak Ground Acceleration
C _{RS}	0.899	Mapped value of the risk coefficient at short periods
C _{R1}	0.885	Mapped value of the risk coefficient at a period of 1 s
C _V	1.5	Vertical coefficient

Project No.: GDSE_23023

Address: 19910 Sunset Dr, Los Gatos, CA 95030

Designer: Jose

			Checked: Date: 02/17/25
Bldg Story:	1	Site Class:	Class D
Latitude:	37.2426086	Height, h:	12.5
Longitude:	-122.0209838	R:	6.5
Type of Framing System: Bearing Wall		I:	1.0

Type of Occupancy: Category II

11.4.1 Mapped Acceleration Parameters

- SS 2.567 g = spectral response acceleration parameter at short periods
- S1 0.889 g = spectral response acceleration parameter at short periods

11.4.3 Site Coefficients and Adjusted MCE Spectral Resoponse Acceleration Parameters

SMS Fa*SS

- Fa 1.2 = short-period site coefficient (at 0.2 s-period) from Table 11.4-1
- SMS 3.1 = spectral response acceleration at short periods adjusted for site class effects

SM1 Fv*S1

Fv 1.5 = short-period site coefficient (at 0.2 s-period) from Table 11.4-1

SM1 1.3 = spectral response acceleration at short periods adjusted for site class effects

11.4.4 Design Spectral Acceleration Parameters

SDS (2/3)*SMS SDS 2.1 = spectral response acceleration at short periods adjusted for site class effects SD1 (2/3)*SM1

SD1 0.9 = spectral response acceleration at short periods adjusted for site class effects

11.4.5 Design Response Spectrum

 $T=T\epsilon (Ct)*(h)^{x}$

Ct 0.02 = building period coefficient

x 0.75 = building period coefficient

Ta 0.13 s = approximate fundamental period of the building

12.8.1.1 Calculation of Seismic Response Coefficient

 $Cs S_{DS} / (R / I)$ (Equation 12.8-2) Cs 0.316 = seismic response coefficient

Check Cs not exceeding the following values:

Seismic Coefficient, Cs	0.316 = seismic response coefficient	
	Cs 0.068	<mark>Okay</mark>
3.) Cs3	$0.5 S_1 / (R / I)$ (Equation 12.8-6)	
2.) Cs2	0.01 = seismic response coefficient (equation 12.8-5)	
	Cs 1.03	<mark>Okay</mark>
1.) Cs1	$S_{D1} / T \left(R / I \right) $ for $T < T_L $ (Equation 12.8-3)	

W the total dead load of the building (on following page) V $\rm \ C_{s} \ W$



450 CALLE VIENTO, MORGAN HILL, CA 95037 EMAIL: ADMIN@GD-SE.COM TEL: (408) 659 5580

Proyect: 19910 Sunset Dr, Los Gatos, CA 95030 Date:02/17/25





New Pool Cabana

Residence: 19910 Sunset Dr, Los Gatos, CA 95030

Date: February 17, 2025 Projet No.: GDSE_23023

Transverse & Longitudinal Lateral Loadings

	Tributary Build	ling Weigh	ts:							
	Weight of Roof:	Ŭ Ŭ	12 psf	6	600 sf		719	6 lbs]	
	Weight of Ceiling:		8 psf	455 sf		3641 lbs				
	Weight of Exter	ior Walls:	17 psf	90.0 ft	8 ft	0.5	612	0 lbs		
			•		Tota	al Weight	1695	57 lbs]	
	Seismic Bas	se Shear:	V=Cs*W (Per	ASCE 7, Eq. 12.8	-1)					
			Cs (Per ASCE	7, Sec. 12.8-1.1)		14/	4000		т	
			Cs = 0.7	0.316	╡ └	VV=	1695	D7 IDS	1	
			V =	3750 lbs						
	AREAS FOR G	RID LINES								
	AREA I	370 sf								
	AREA II	85 sf								
	Σ=	455 sf	_							
				0750 # -	,	455 6				
	Transverse Lo	ading	V _{East-West} =	3750 IDS	/	455 st				
			V _{East-West} =	8.2 psf						
					SW	Length	Nailing	Sched		Factor (33%)
Line 1:	8.2 psf	185 sf		1524 lbs	1.	50 ft	(1) WS	WH18x9	1016 plf	(00/0)
Line 2:	8.2 psf	270 sf		2226 lbs	7.	50 ft	4 in	2	297 plf	
	Σ=	455 sf	Σ=	3750 lbs						
	Longitudinal L	ooding	V	2750 lbc	1	AFF of				
	Longituumai L	oaung	V North-South –	3750 IDS	/	455 51				
			V North-South =	6.2 psi						Fastar
					SW	Length	Nailing	Sched		(33%)
Line A:	8.2 psf	228 sf		1875 lbs	16	.00 ft	6 in	1	117 plf	
Line B:	8.2 psf	228 sf		1875 lbs	26	.25 ft	6 in	1	71 plf	
	Σ=	455 sf	Σ=	3750 lbs						
	Shearwall Stat	oility.								
	onour nun olux	SW Ht								
l ine 1·	1016 plf	8.0.ft	8128 lbs	Use WSW-AB1	Anchor F	Bolt · Can	= 16.000	lbs.		
Line 2:	297 plf	8.0 ft	2374 lbs	Use Simpson H	IDU2, w/4	x4" Post ;	Cap. = 3,	075 lbs.		
	-						_			
Line A:	117 plf	8.0 ft	938 lbs	Use Simpson H	IDU2, w/4	x4" Post ;	Cap. = 3,	075 lbs.		
Line B:	71 plf	8.0 ft	571 lbs	Use Simpson H	IDU2, w/4	x4" Post ;	Cap. = 3,	075 lbs.		



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Proyect: 19910 Sunset Dr, Los Gatos, CA 95030 Date:02/17/25





1 piece(s) 3 1/2" x 14" 2.2E Parallam® PSL

Overall Length: 29' 4"



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	4406 @ 4' 1 3/4"	7656 (3.50")	Passed (58%)		1.0 D + 1.0 Lr (Adj Spans)
Shear (lbs)	2926 @ 5' 5 1/2"	11842	Passed (25%)	1.25	1.0 D + 1.0 Lr (Adj Spans)
Moment (Ft-lbs)	17850 @ 16' 1 5/8"	33952	Passed (53%)	1.25	1.0 D + 1.0 Lr (Alt Spans)
Live Load Defl. (in)	0.625 @ 15' 11 5/8"	1.177	Passed (L/452)		1.0 D + 1.0 Lr (Alt Spans)
Total Load Defl. (in)	1.040 @ 15' 11 7/8"	1.569	Passed (L/272)		1.0 D + 1.0 Lr (Alt Spans)

Member Length : 29' 4" System : Roof Member Type : Drop Beam Building Use : Residential Building Code : IBC 2021 Design Methodology : ASD Member Pitch : 0/12

PASSED

• Deflection criteria: LL (L/240) and TL (L/180).

• Overhang deflection criteria: LL (2L/240) and TL (2L/180).

Upward deflection on right cantilever exceeds overhang deflection criteria.

• Allowed moment does not reflect the adjustment for the beam stability factor.

• Upward deflection on left cantilever exceeds 0.4".

	Bearing Length		Loads to Supports (Ibs)				
Supports	Total	Available	Required	Dead	Roof Live	Factored	Accessories
1 - Stud wall - DF	3.50"	3.50"	2.01"	1806	2600	4406	Blocking
2 - Stud wall - DF	3.50"	3.50"	1.64"	1459	2127	3586	Blocking
Blocking Papels are assumed to carry no los	de annlied di	roctly above t	thom and the	full load is a	palied to the	nombor boin	a docianod

Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	26' 5" o/c	
Bottom Edge (Lu)	29' 4" o/c	

•Maximum allowable bracing intervals based on applied load.

			Dead	Roof Live	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.25)	Comments
0 - Self Weight (PLF)	0 to 29' 4"	N/A	15.3		
1 - Uniform (PSF)	0 to 29' 4" (Front)	8'	12.0	20.0	Roof Load

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ForteWEB Software Operator	Job Notes
ismael perez Golden D	
(558) 263-3178	
IPGoldenD@gmail.com	





Roof Members, Ridge Beam_B 1 piece(s) 2 x 12 DF No.2

Overall Length: 4' 1"



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	501 @ 1' 7 3/4"	3281 (3.50")	Passed (15%)		1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	96 @ 2' 8 3/4"	2531	Passed (4%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	-201 @ 1' 7 3/4"	2966	Passed (7%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.001 @ 0	0.200	Passed (2L/999+)		1.0 D + 1.0 Lr (Alt Spans)
Total Load Defl. (in)	0.002 @ 0	0.219	Passed (2L/999+)		1.0 D + 1.0 Lr (Alt Spans)

Member Length : 4' 1" System : Roof Member Type : Drop Beam Building Use : Residential Building Code : IBC 2021 Design Methodology : ASD Member Pitch : 0/12

• Deflection criteria: LL (L/240) and TL (L/180).

• Overhang deflection criteria: LL (0.2") and TL (2L/180).

• Left cantilever length exceeds 1/3 member length or 1/2 back span length. Additional bracing should be considered.

• Allowed moment does not reflect the adjustment for the beam stability factor.

Applicable calculations are based on NDS.

	Bearing Length		Loads to Supports (Ibs)				
Supports	Total	Available	Required	Dead	Roof Live	Factored	Accessories
1 - Stud wall - DF	3.50"	3.50"	1.50"	197	304	501	Blocking
2 - Stud wall - DF	3.50"	3.50"	1.50"	41	90	131	Blocking
Placking Danals are assumed to carry no los	de applied di	ractly above t	hom and the	full load is a	poliod to the	mombor boin	a decigned

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	4' 1" o/c	
Bottom Edge (Lu)	4' 1" o/c	

•Maximum allowable bracing intervals based on applied load.

			Dead	Roof Live	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.25)	Comments
0 - Self Weight (PLF)	0 to 4' 1"	N/A	4.3		
1 - Uniform (PSF)	0 to 4' 1" (Front)	4' 6"	12.0	20.0	Roof Load

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ForteWEB Software Operator	Job Notes
ismael perez Golden D (558) 263-3178 IPGoldenD@gmail.com	





Roof Members, Hip Beam_A 1 piece(s) 2 x 12 DF No.2

Sloped Length: 11' 6 11/16"



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	400 @ 10' 7 1/4"	1406 (1.50")	Passed (28%)		1.0 D + 1.0 Lr (Alt Spans)
Shear (lbs)	280 @ 9' 8 11/16"	2531	Passed (11%)	1.25	1.0 D + 1.0 Lr (Alt Spans)
Moment (Ft-lbs)	641 @ 7' 1 5/16"	2966	Passed (22%)	1.25	1.0 D + 1.0 Lr (Alt Spans)
Live Load Defl. (in)	0.018 @ 6' 7 1/16"	0.442	Passed (L/999+)		1.0 D + 1.0 Lr (Alt Spans)
Total Load Defl. (in)	0.031 @ 6' 7 1/8"	0.590	Passed (L/999+)		1.0 D + 1.0 Lr (Alt Spans)

Member Length : 11' 6 15/16" System : Roof Member Type : Flush Beam Building Use : Residential Building Code : IBC 2021 Design Methodology : ASD Member Pitch : 4.24/12

• Deflection criteria: LL (L/240) and TL (L/180).

Overhang deflection criteria: LL (2L/240) and TL (2L/180).

Allowed moment does not reflect the adjustment for the beam stability factor.

Applicable calculations are based on NDS.

	Bearing Length			Loads to Supports (lbs)			
Supports	Total	Available	Required	Dead	Roof Live	Factored	Accessories
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	141	172	312	Blocking
2 - Hanger on 11 1/4" SPF beam	3.50"	Hanger ¹	1.50"	164	236	400	See note 1

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

• At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger

• ¹ See Connector grid below for additional information and/or requirements.

Lateral Bracing	Bracing Intervals	Comments			
Top Edge (Lu)	11' 3" o/c				
Bottom Edge (Lu) 11' 3" o/c					
•Maximum allowable bracing intervals based on applied load.					

Connector: Simpson Strong-Tie

1 5						
Support	Model	Seat Length	Top Fasteners	Face Fasteners	Member Fasteners	Accessories
2 - Face Mount Hanger	LRU28Z	1.94"	N/A	6-10dx1.5	5-10d	

Refer to manufacturer notes and instructions for proper installation and use of all connectors.

			Dead	Roof Live	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.25)	Comments
0 - Self Weight (PLF)	0 to 10' 7 1/4"	N/A	4.3		
1 - Tapered (PLF)	0 to 2' 1 7/16"	N/A	0.0 to 26.8	0.0 to 42.4	Generated from Roof Geometry
2 - Tapered (PLF)	2' 1 7/16" to 10' 7 1/4"	N/A	0.0 to 50.3	0.0 to 84.9	Generated from Roof Geometry

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ForteWEB Software Operator	Job Notes
ismael perez Golden D (558) 263-3178 IPGoldenD@gmail.com	





Sloped Length: 7' 9 11/16"



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	301 @ 2"	2231 (3.50")	Passed (14%)		1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	169 @ 1' 2 1/8"	2531	Passed (7%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-Ibs)	379 @ 3' 1 7/16"	2966	Passed (13%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.007 @ 3' 6 1/16"	0.366	Passed (L/999+)		1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.013 @ 3' 6 3/16"	0.488	Passed (L/999+)		1.0 D + 1.0 Lr (All Spans)

Member Length : 7' 10" System : Roof Member Type : Flush Beam Building Use : Residential Building Code : IBC 2021 Design Methodology : ASD Member Pitch : 4.24/12

PASSED

• Deflection criteria: LL (L/240) and TL (L/180).

• Allowed moment does not reflect the adjustment for the beam stability factor.

Applicable calculations are based on NDS.

	Bearing Length			Loads	to Support		
Supports	Total	Available	Required	Dead	Roof Live	Factored	Accessories
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	131	171	301	Blocking
2 - Hanger on 11 1/4" SPF beam	3.50"	Hanger ¹	1.50"	69	79	148	See note 1

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger

• ¹ See Connector grid below for additional information and/or requirements.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	7' 6" o/c	
Bottom Edge (Lu)	7' 6" o/c	

•Maximum allowable bracing intervals based on applied load.

Connector: Simpson Strong-Tie							
Support	Model	Seat Length	Top Fasteners	Face Fasteners	Member Fasteners	Accessories	
2 - Face Mount Hanger	LRU28Z	1.94"	N/A	6-10dx1.5	5-10d		
		e 11 .					

Refer to manufacturer notes and instructions for proper installation and use of all connectors.

			Dead	Roof Live	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.25)	Comments
0 - Self Weight (PLF)	0 to 7' 7/8"	N/A	4.3		
1 - Tapered (PLF)	0 to 7' 7/8"	N/A	44.7 to 0.0	70.7 to 0.0	Generated from Roof Geometry

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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
ismael perez Golden D (558) 263-3178 IPGoldenD@gmail.com	



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Roof Members, Roof Rafter_A 1 piece(s) 2 x 10 DF No.2 @ 24" OC

Sloped Length: 11' 3 5/16"



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	264 @ 9' 9 1/2"	1406 (1.50")	Passed (19%)		1.0 D + 1.0 Lr (Alt Spans)
Shear (lbs)	227 @ 2' 5 3/4"	2081	Passed (11%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	523 @ 5' 10"	2537	Passed (21%)	1.25	1.0 D + 1.0 Lr (Alt Spans)
Live Load Defl. (in)	0.030 @ 5' 9"	0.455	Passed (L/999+)		1.0 D + 1.0 Lr (Alt Spans)
Total Load Defl. (in)	0.049 @ 5' 9 1/8"	0.607	Passed (L/999+)		1.0 D + 1.0 Lr (Alt Spans)

Member Length : 11' 4" System : Roof Member Type : Joist Building Use : Residential Building Code : IBC 2018 Design Methodology : ASD Member Pitch : 6/12

• Deflection criteria: LL (L/240) and TL (L/180)

Overhang deflection criteria: LL (2L/240) and TL (2L/180).

· Allowed moment does not reflect the adjustment for the beam stability factor.

A 15% increase in the moment capacity has been added to account for repetitive member usage

Applicable calculations are based on NDS.

	Bearing Length			Loads	to Support		
Supports	Total	Available	Required	Dead	Roof Live	Factored	Accessories
1 - Beveled Plate - DF	3.50"	3.50"	1.50"	158	235	393	Blocking
2 - Hanger on 9 1/4" DF beam	3.50"	Hanger ¹	1.50"	112	171	283	See note 1

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

• At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger

• 1 See Connector grid below for additional information and/or requirements.

Bracing Intervals	Comments
10' 11" o/c	
10' 11" o/c	
	Bracing Intervals 10' 11" o/c 10' 11" o/c

Maximum allowable bracing intervals based on applied load.

Connector: Simpson Strong-Tie											
Support	Model	Seat Length	Top Fasteners	Face Fasteners	Member Fasteners	Accessories					
2 - Face Mount Hanger	LRU28Z	1.94"	N/A	6-10dx1.5	5-10d						
Pafer to manufacturer notes and instructions for proper installation and use of all connectors											

			Dead	Roof Live	
Vertical Load	Location (Side)	Spacing	(0.90)	(1.25)	Comments
1 - Uniform (PSF)	0 to 10' 1"	24"	12.0	20.0	Roof Load

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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator Job Notes ismael perez Golden D (558) 263-3178 IPGoldenD@gmail.com





Ceiling Members, Header Bema_A 1 piece(s) 4 x 10 DF No.2





Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	2209 @ 0	3281 (1.50")	Passed (67%)		1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	2067 @ 10 3/4"	4856	Passed (43%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-Ibs)	3624 @ 1' 9"	5615	Passed (65%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.011 @ 1' 10 3/8"	0.125	Passed (L/999+)		1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.020 @ 1' 10 3/8"	0.188	Passed (L/999+)		1.0 D + 1.0 Lr (All Spans)

Member Length : 3' 9" System : Wall Member Type : Header Building Use : Residential Building Code : IBC 2021 Design Methodology : ASD

• Deflection criteria: LL (L/360) and TL (L/240).

• Allowed moment does not reflect the adjustment for the beam stability factor.

Applicable calculations are based on NDS.

	Bearing Length			Loads	to Support		
Supports	Total	Available	Required	Dead	Roof Live	Factored	Accessories
1 - Trimmer - DF	1.50"	1.50"	1.50"	981	1228	2209	None
2 - Trimmer - DF	1.50"	1.50"	1.50"	884	1086	1970	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	3' 9" o/c	
Bottom Edge (Lu)	3' 9" o/c	

•Maximum allowable bracing intervals based on applied load.

			Dead	Roof Live	
Vertical Loads	Location	Tributary Width	(0.90)	(1.25)	Comments
0 - Self Weight (PLF)	0 to 3' 9"	N/A	8.2		
1 - Uniform (PSF)	0 to 3' 9"	2' 6"	12.0	20.0	Roof Load
2 - Uniform (PLF)	0 to 3' 9"	N/A	70.0	-	Ext. Wall
3 - Point (lb)	1' 9"	N/A	1459	2127	Linked from: Ridge Beam_A, Support 2

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ForteWEB Software Operator	Job Notes
ismael perez	
Golden D	
(558) 263-3178	
IPGoldenD@gmail.com	





Allowable Point Loads on Doug Fir Wood Posts / Columns

							Area of	
Post Size	Height	L _e /d	F_{CE}	C _P	$F_{c} p^{erp}$	F_{c}^{prll}	post	P _{ALLOW}
(inches)	(feet)	(in / in)	(psi)		(psi)	(psi)	(in ²)	(lbs)

	8	27.4	634	0.41	625	1350	12.25	6810
	9	30.9	501	0.34	625	1350	12.25	5568
	10	34.3	406	0.28	625	1350	12.25	4612
4 x 4	11	37.7	335	0.23	625	1350	12.25	3870
	12	41.1	282	0.20	625	1350	12.25	3287
	13	44.6	240	0.17	625	1350	12.25	2824
	14	48.0	207	0.15	625	1350	12.25	2450



450 CALLE VIENTO, MORGAN HILL, CA 95037 EMAIL: ADMIN@GD-SE.COM TEL: (408) 659 5580

Proyect: 19910 Sunset Dr, Los Gatos, CA 95030 Date:02/17/25



*STRUCTURAL MEMBERS (CHECK LIST) *LOADS TO SUPPORTS (CHECK LIST)



Floor Members, Floor Joist_A 1 piece(s) 11 7/8" TJI ® 110 @ 16" OC



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	564 @ 2 1/2"	1041 (2.25")	Passed (54%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	550 @ 3 1/2"	1560	Passed (35%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-Ibs)	2109 @ 7' 9 1/2"	3160	Passed (67%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.217 @ 7' 9 1/2"	0.379	Passed (L/840)		1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.298 @ 7' 9 1/2"	0.758	Passed (L/611)		1.0 D + 1.0 L (All Spans)
TJ-Pro [™] Rating	46	40	Passed		

Member Length : 15' 4 1/2" System : Floor Member Type : Joist Building Use : Residential Building Code : IBC 2021 Design Methodology : ASD

Deflection criteria: LL (L/480) and TL (L/240).

Allowed moment does not reflect the adjustment for the beam stability factor.

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• A structural analysis of the deck has not been performed.

• Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.

• Additional considerations for the TJ-Pro[™] Rating include: None.

	Bearing Length			Loads to Supports (lbs)			
Supports	Total	Available	Required	Dead	Floor Live	Factored	Accessories
1 - Stud wall - DF	3.50"	2.25"	1.75"	156	416	571	1 1/4" Rim Board
2 - Stud wall - DF	3.50"	2.25"	1.75"	156	416	571	1 1/4" Rim Board
Bins Deaud is second to second all leads soulised diversity shows it, however, a the mean have being designed							

• Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.

Lateral Bracing	Bracing Intervals	Comments			
Top Edge (Lu)	3' 10" o/c				
Bottom Edge (Lu)	15' 5" o/c				

TJI joists are only analyzed using Maximum Allowable bracing solutions.

•Maximum allowable bracing intervals based on applied load.

			Dead	Floor Live	
Vertical Load	Location	Spacing	(0.90)	(1.00)	Comments
1 - Uniform (PSF)	0 to 15' 7"	16"	15.0	40.0	Floor Load

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ForteWEB Software Operator	Job Notes
ismael perez	
Golden D	
(558) 263-3178	
IPGoldenD@gmail.com	

