INSPECTIONS IN ACCORDANCE WITH THE CALIFORNIA BU WORK SHALL NOT BE DONE BEYOND THE SUCCESSIVE INSPECTION. WITHOUT FIRST C BUILDING OFFICIAL. CHAPTER 1 SECT. 110 R		
		GENERAL CONSTRUCTION SHALL BE SUBJE AND SUCH CONS ACCESSIBLE ANI APPROVED.
		FOOTING AND FOUNDATION INSPECTIONSHALL BE MADE COMPLETE AND PLACE. FOR CON SHALL BE IN PLA
CONCRETE SLAB AND UNDER-FLOOR INSPECTION SUBFLOOR. SUBFLOOR.		
LOWEST FLOOR ELEVATION IN FLOOD HAZAR FLOOR, INCLUDIN VERTICAL CONS REQUIRED IN SEC BUILDING OFFICI,		
FRAME INSPECTION SHALL BE MADE ALL FRAMING, FIF AND PIPES, CHIMI COMPLETE AND WIRES, PIPES AN:		
LATH AND GYPSUM BOARD INSPECTION GYPSUM BOARD INSPECTION GYPSUM BOARD BOARD AND GY FASTENERS ARE		
FIRE-AND SMOKE RESISTANT PENETRATIONS PENETRATIONS PENETRATIONS PENETRATIONS PENETRATIONS PENETRATIONS		
ENERGY EFFICIENCY INSPECTION SHALL BE MADE 13 AND SHALL IN FOR: ENVELOPE U-VALUE, DUCT S WATER-HEATING		
FINAL SHALL BE MADE BUILDING PERMIT		
SPECIAL INSPECTIONS IN ACCORDANCE WITH THE CALIFORNIA I THE OWNER OR THE REGISTERED DESIG CHARGE ACTING AS THE OWNER'S AGEN APPROVED AGENCIES TO PROVIDE SPE CONSTRUCTION ON THE TYPES OF WORK AND APPROVED AGENCIES TO THE BUILT AND TEST ARE IN ADDITION TO THE INSP ARE IDENTIFIED IN SECTION 110		
SPECIAL INSPECTIONS TO BE PREFORME		

	CODE COMPLIANCE	PROJECT TEAM	
	1) THIS PROJECT SHALL COMPLY WITH: CALIFORNIA RESIDENTIAL CODE, 2022 EDITION CALIFORNIA PLUMBING CODE, 2022 EDITION CALIFORNIA ELECTRICAL CODE, 2022 EDITION CALIFORNIA MECHANICAL CODE, 2022 EDITION	ARCHITECT: PACIFIC ARCHITECTS, INC. 1 1) 17 COAST VILLAGE ROAD MONTECITO, CA.93 108 PHONE: 805.565.3640	
	CALIFORNIA FIRE CODE, 2022 EDITION CALIFORNIA ENERGY CODE, 2022 EDITION CALIFORNIA GREEN BUILDING STANDARDS CODE, 2022 EDITION ALL OTHER CODES, REGULATIONS, AND APPROVALS ESTABLISHED BY THE COUNTY OF SANTA BARBARA	FAX: 805.565.3641 EMAIL: bwolf@pacificarchitectsinc.com CONTACT: BILL WOLF STRUCTURAL ENGINEER:	criste fa
	 2) ADDITIONS, ALTERATIONS AND REPAIRS OF EXISTING BUILDINGS ARE TO COMPLY WITH APPLICABLE PROVISIONS OF THE CALIFORNIA EXISTING BUILDING CODE (CEBC). [CRC 1.8.10.1]. 		
	3) "QUALITY INSULATION INSTALLATION (QII) IS REQUIRED PER THE 2022 CALIFORNIA ENERGY CODE AND REQUIRES [HERS] VERIFICATION		Report Forder
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	SYMBOLS	SHEET INDEX ARCHITECTURAL	
	REVISION NUMBER	A0.0 COVER SHEET: PROJECT TEAM / TABULATIONS / PROJECT SCOPE / SHEET INDEX / VICINITY MAP / SYMBOLS LEGEND / INSPECTIONS / CODE COMPLIANCE / GREEN BLDG & BEST MGMT PRACTICES FOR CONST.	SITE
	A 1 DETAIL NUMBER	AO.1 GENERAL NOTES & KEYNOTES AO.2 ACCESSIBILITY NOTES & DETAILS AO.3 HIGH FIRE REQUIREMENTS AND RATED TREATMENT	APN ZON
		A 1.0 (N) SITE PLAN A 2.0 (N) CARPORT FLOOR PLAN & TRUCKPORT ROOF PLAN	FLO OCC
	WINDOW SYMBOL	A3.0 (N) CARPORT ELEVATIONS D1.0 CARPORT DETAILS & CARPORT CROSS SECTION D2.0 AUTO & PEDESTRIAN GATE FLOOR PLAN & ELEVATIONS	((N <i>O</i> . (
	KEY NOTE SYMBOL + 10.00" NEW OR REQ'D POINT ELEV.	EM.O ELECTRICAL/LIGHTING/MECHANICAL NOTES EM.1 CARPORT POWER PLAN & LIGHTING PLAN	E 1
	4 Building sections SECTION NUMBER 10.00' A1 SHEET NUMBER	GB1 CAL GREEN BUILDING STANDARDS CODE GB2 CAL GREEN BUILDING STANDARDS CODE GB3 CAL GREEN BUILDING STANDARDS CODE	BUIL (
	INTERIOR ELEVATIONS ELEVATION NUMBER	STRUCTURAL	
	N	S1.1 STRUCTURAL NOTES S1.2 STRUCTURAL DETAILS S1.1 STRUCTURAL FOUNDATION AND FRAMING	SPR HIGH
	NORTH ARROW	S1.1 STRUCTURAL DETAILS	LOT AVG
	GREEN BUILDING & BEST MANAGEMENT		GRA
2019 BUILDING CODE (CBC) SECTION 110 E POINT INDICATED IN EACH OBTAINING THE APPROVAL OF THE	PRACTICES FOR CONSTRUCTION: 1. FOR STORM WATER AND DRAINAGE CONSERVATION MEASURES & PLANS,		BUIL
REQ'D. INSPECTIONS	2. FOR ENERGY EFFICIENCY STANDARDS, SEE ENERGY CALCULATIONS & MANDATORY MEASURES ON SHEET A9.		(
OR WORK FOR WHICH A PERMIT IS REQUIRED CT TO INSPECTION BY THE BUILDING OFFICIAL RUCTION OR WORKSHALL REMAIN EXPOSED FOR INSPECTION PURPOSES UNTIL	 FOR WATER CONSERVATION & EFFICIENCY STANDARDS FOR PLUMBING FIXTURES SEE 2016 CALIFORNIA GREEN BUILDING STANDARDS, SHEET GB 1. FOR WATER CONSERVATION & EFFICIENCY STANDARDS FOR IRRIGATION SYSTEMS, SEE LANDSCAPE PLANS & 2016 CALIFORNIA GREEN BUILDING STANDARDS, SHT GB 1. 	,	AUT
AFTER EXCAVATIONS FOR FOOTINGS ARE ANY REQUIRED REINFORCING STEEL IS IN CRETE FOUNDATIONS, ANY REQUIRED FORMS CE PRIOR TO INSPECTION.	 FOR MATERIAL CONSERVATION, REUSE RECYCLE AND RESOURCE EFFICIENCY, SEE 2016 CALIFORNIA GREEN BUILDING STANDARDS, SHEET GB1. PROVIDE OPERATION & MAINTENANCE MANUALS TO OWNER, AS PER 2016 CALIFORNIA GREEN BUILDING STANDARDS, SHEET GB1. 		F (
AFTER IN-SLAB OR UNDER-FLOOR EEL AND BUILDING SERVICE EQUIPMENT, ACCESSORIES AND OTHER ANCILLARY 5 ARE IN PLACE, BUT BEFORE ANY CONCRETE OOR SHEATHING. INSTALLED, INCLUDING THE	 SEE ENVIRONMENTAL QUALITY SECTION IN 2016 CALIFORNIA GREEN BUILDING STANDARDS, SHEET GB, FOR STANDARDS FOR AIR QUALITY, POLLUTION REDUCTION & CONTAMINANT REDUCTION. FOR INTERIOR MOISTURE CONTROL AND INDOOR AIR QUALITY 		LAR
D AREAS, UPON PLACEMENT OF THE LOWEST G THE BASEMENT, AND PRIOR TO FURTHER IRUCTION, THE ELEVATION CERTIFICATION	SEE 2016 CALIFORNIA GREEN BUILDING STANDARDS, SHEET GB1. 9. FOR INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS, SEE 2016 CALIFORNIA GREEN BUILDING STANDARDS, SHEET GB1.		f (
AFTER THE ROOF DECK OR SHEATHING, REBLOCKING AND BRACING ARE IN PLACE	 10. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND. 11. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST 		
AFTER LATHING GYPSUM BOARD AND	DE FROTEGTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER. 12. FUELS, OILS, SOLVENTS & OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE W/ THEIR LISTING & ARE NOT TO CONTAMINATE THE SOIL & SURFACE		
PRODUCTS, INTERIOR AND EXTERIOR, ARE IN PRODUCTS, INTERIOR AND EXTERIOR, ARE IN PRE ANY PLASTERING IS APPLIED OR GYPSUM SUM PANEL PRODUCTS JOINTS AND TAPED AND FINISHED.	 MAILERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MAY NOT BE WASHED INTO DRAINAGE SYSTEM. 13. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS MUST BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED AS A SOLID WASTE. 		PR
JOINTS AND PENETRATIONS IN FIRE- TED ASSEMBLIES, SMOKE BARRIERS AND INS SHALL NOT BE CONCEALED FROM VIEW AND APPROVED.	14. TRASH & CONSTRUCTION RELATED SOLID WASTE MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER & DISPERSAL BY WIND.		C A
TO DETERMINE COMPLIANCE WITH CHAPTER CLUDE, BUT NOT BE LIMITED TO, INSPECTIONS INSULATION R- AND U-VALUES, FENESTRATION YSTEM R- VALUE, AND HVAC AND EQUIPMENT EFFICIENCY.	15. SELIMENTS & OTHER MATERIAL MAY NOT BE TRACED 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 DEPOSITION MUST BE SWEPT UP IMMEDIATELY & MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.		1. 2.
AFTER ALL WORK REQUIRED BY THE IS COMPLETED.	16. ANY SLOPES WITH DISTURBED SOILS OR DEMANDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND & WATER.		з.
BUILDING CODE (CBC) SECTION 1704, N PROFESSIONAL IN RESPONSIBLE SHALL EMPLOY ONE OR MORE			
CIAL INSPECTIONS AND TEST DURING SPECIFIED IN SECTION 1705 AND IDENTIFY DING OFFICIAL. THESE SPECIAL INSPECTIONS ECTIONS BY THE BUILDING OFFICIAL THAT			
SCHEDULE OF SPECIAL INSPECTIONS. D BY PACIFIC MATERIALS LAB.			



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		GENERAL NOTES
		1. THESE DRAWINGS ARE DEEMED INSTRUMENTS OF APPLICABLE LAWS INCLUDING U.S. COPYRIGHT LAWS. INDICATED OR REPRESENTED BY THESE DOCUMENT PROPERTY OF PACIFIC ARCHITECTS AND WERE CRE
		CONNECTION WITH A SPECIFIED PROJECT. USE OR DI PERMISSION ONLY. ANY MODIFICATIONS TO THESE P MITHOUT WRITTEN PERMISSION OF PACIFIC ARCHITEC THEREBY ABSOLVES PACIFIC ARCHITECTS FROM AN
		2. THE GENERAL CONDITIONS AS PUBLISHED BY THE DOCUMENT #A-201 (GENERAL CONTRACTOR COND CONSTRUCTION), LATEST EDITION, SHALL GOVERN A
		DOCUMENTS. 3. THE CONSTRUCTION DOCUMENTS ARE PROVIDED AND IMPLY THE FINEST QUALITY WORKMANSHIP THRO WHICH APPEARS TO BE INCONSISTENT WITH THE ABO
		BROUGHT TO THE ATTENTION OF THE ARCHITECT BY 4. DRAWINGS ARE BASIC EXISTING REQUIREMENTS, C VERIFY THE SCOPE OF WORK. ANY ADDITIONAL WOR
		DRAWINGS BUT YET ARE APPARENT UPON FIELD INST PART OF THIS CONTRACT. 5. NO INSTRUCTIONS, REVISIONS, ADDITIONS, DELETIC OTHER THAN THE INFORMATION CONTAINED HEREIN
		THEY ARE IN WRITING AND APPROVED BY THE ARCH 6. DRAWINGS REPRESENT PRIMARY REQUIREMENTS DETAILING AS DESCRIBED. CONTRACTOR IS REQUIR
		CAREFULLY REVIEW DRAMINGS FOR PROPER EXECU- MORK NOT INCLUDED ON THE DRAMINGS YET REQUIR REQUIREMENTS FOR ISSUANCE OF CERTIFICATE OF C AS PART OF THE CONTRACTORS SCOPE OF WORK.
		7. IT SHALL BE UNDERSTOOD THAT ALL MECHANICAL SAFETY DRAWINGS ARE DIAGRAMMATIC AND ARE N DRAWINGS. THE CONTRACTOR SHALL FULLY ACQUA MORK CONCERNING OTHER TRADES AND SUBCONTR RESPONSIBLE TO COORDINATE AND SEQUENCING WI
		8. ALL CONSTRUCTION MEANS METHODS, MATERIALS WITH THE LATEST EDITION OF ALL APPLICABLE LOCA ORDINANCES. THE FOLLOWING ARE HEREBY REFERE THE 2019 CBC, 2019 CMC, 2019 CPC, 2019 CEC, A (BAGED ON 2016 CAN HEREN A BUILDING ENERGY EE
		9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRA REQUIRED OPENINGS IN ROOF, FLOORS, MALLS, AND ADEQUATE SPACE FOR ALL ELECTRICAL, MECHANIC, DUCTWORK, ETC.
		10. THE CONTRACTOR SHALL VERIFY ALL CONSTRU- AND CONDITIONS AND SHALL NOTIFY THE ARCHITEC OR INCONSISTENCIES PRIOR TO STARTING WORK.
		11. CONTRACTORS SHALL PROCURE AND INCLUDE II PERMITS, CERTIFICATES AND NOTICES FOR THE PRO 12. CONTRACTOR MUST SHOW PROOF OF INSURANC
		13. FROM INFORMATION PROVIDED BY THE OWNER, AND EXISTING BUILDINGS ARE COPIED TO THIS SITE P
		GENERAL DETAILS IF ANY DISCREPANCIES OR INCON ARCHITECT FOR CLARIFICATION. 15. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS
		SCALED DRAWINGS. 16. ALL DIMENSIONS ARE TO FACE OF STUD OR FACI AT WALLS AND ROOFS WITH PLYWOOD SHEATHING D SIDE OF PLYWOOD
		17. SURFACE WATER WILL DRAIN AWAY FROM THE B FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PE MALL IMPERVIOUS SURFACES MITHIN 10 FEET OF THE
		SLOPED A MINIMUM OF 2% AWAY FROM BUILDING PER 18. WATER-CONSERVING PLUMBING FIXTURES AND F WATER CLOSET
		•WATER CONSUMPTION: THE EFFECTIVE FLUSH VOLUN NOT EXCEED 1.28 GALLONS PER FLUSH WHEN TESTE A 1 12.19.2/CSA B45.1 [CPC 4 1 1.2] •DUAL FLUSH WATER CLOSETS: DUAL FLUSH WATER C
		A112.19.14. THE EFFECTIVE FLUSH VOLUME FOR DU, DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLU ONE FULL FLUSH. [CPC 411.2.1] •PERFORMANCE: WATER CLOSETS INSTALLED SHALL PERFORMANCE CRITERIA DEVELOPED FOR CERTIFIC
		UNDER THE WATERSENSE PROGRAM SPONSORED B PROTECTION AGENCY. [CPC 411.2.3] •MATER CLOSETS: THE EFFECTIVE FLUSH VOLUME OF EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WAT
 Her hard and a second and a sec		TYPE TOILETS. [CPC 411.2.4] [CALGREEN 4.303.1.1] KITCHEN FAUCETS. [HCD 1] THE MAXIMUM FLOW RATE EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI KITCHE
HERE AND ADDRESS AND ADDRES		INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BU MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM MINUTE AT 60 PSI NOTE: WHERE FAUCETS MEETING TH ARE UNAVAILABLE, AERATORS OR OTHER MEANS M, [CPC 420.2.2][CALGREEN 4.303.1.4.4]
HARD THE AND A CONTROL OF A CON		RESIDENTIAL LAVATORY FAUCETS: THE MAXIMUM FL FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MIN RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL MINUTE AT 20 PSI [CPC 407.2.2][CALGREEN 4.303.1.
 Handler & Bord and Constraints (See See See See See See See See See Se		SHOWER •MATER CONSUMPTION: SHOWERHEADS SHALL HAVE GALLONS PER MINUTE MEASURED AT 80 PSI AND MUS CALLFORNIA GREEN BUILDING STANDARDS CODE (C)
August and a second secon		•SINGLE SHOWERHEAD: SHOWERHEADS SHALL HAVE MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATER SHOWERHEADS [CPC 408.2.1] [CALGREEN 4.303.1.3
Hand, Lie Contraction A. How The Section 2016 of 46.8. Hand, Mark Termsback Balance 2016 of 46.8. Hand, Mark		"MULTIPLE SHOMERHEAD'S SERVING ONE SHOMER: M THAN ONE SHOWERHEAD, THE COMBINED FLOW RATI OTHER SHOWER OUTLETS CONTROLLED BY A SINGL GALLONS PER MINUTE AT 80 PSI OR THE SHOWER SH ONE SHOWER OUTLET TO BE IN OPERATION AT A TIM
Heterstring bookses Heter de Sadassi. I. I. Provide autor UNA VER toka and Park Lass I. Provide autor UNA VER		SHALL BE CONSIDERED A SHOWERHEAD. [CPC 408.2 19. MATER PRESSURE REGULATOR OF 60 PSI SHALL
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Bit State And And State And		RECEPTACLES TO BE GFCI. 24. FIREBLOCKING AND DRAFTSTOPPING SHALL BE R302.11 THROUGH R302.11.2
 A. EXPORTS COMPUTED LANCES OF TERM AND AND AND AND AND AND AND AND AND AND		25. ESCAPE WINDOWS IN EACH BEDROOM TO BE MA WINDOW SILL, MINIMUM CLEAR OPENING WIDTH OF 20 24" AND A MINIMUM NET CLEAR OPENING OF 5.7 SQU R3 10.1-R3 10.2.2 & CBC 1030.1-1030.3
 Personal and the second seco		26. EXPOSED COMBUSTIBLE MANTELS OR TRIM MAY MASONRY FIREPLACE FRONT SURROUNDING THE FIR COMBUSTIBLE MATERIALS ARE NOT PLACED WITHIN COMBUSTIBLE MATERIAL MITHIN 12 INCHES OF THE FI
2 1111243 21111		PROJECT MORE THAN 1/8 INCH FOR EACH ONE INCH COMBUSTIBLE MATERIALS LOCATED ALONG THE SID PROJECT MORE THAN 1 1/2 INCHES FROM THE FACI ADDITIONAL CLEARANCE EQUAL TO THE PROJECTION
 28. CONTRACTOR SHALL PECAVIDE ALL NECESSARY. 29. ALL EXTENSION OPENINGS, FLASHING, SCINTERF, TO BE SHALL BE CONTROLLER NOULA MAINTER TO BE SHALL BE CONTROLLER IN CONTROL REMAINS SHALL BE CONTROLLER IN CONTROL REMAINS SHALL BE CONTROLLER IN CONTROL REMAINS SHALL BE CONTROL FOR MAINTER AND BAINTEON SHALL BE SHALL BE SHALL BE SHALL BE SHALL BE SHALL BE SHALL SHALL CONTROL FRANK AND BAINTEON SHALL MAINTER AND SHALL BE SHALL DE SHALL BE SHALL DE SHALL BE CONTROL FOR SHALL REMAINS AND BAINTEON SHALL MAINTER AND SHALL BE SHALL DE SHALL D		2111.12(4) 27. ATTIC VENTILATION TO BE NOT LESS THAN 1/15 SHALL BE COVERED W/ CORROSION-RESISTANT ME MIN-1/4" MAX. ROOF VENTS PER CRC SECT. R806. 1202.2.1, 1202.2.2
90. ALL GOVER PLATES, GRALLES, AND PKTURES TO 31. EXAMPT FAN BIALL PEOXIDE UNIMAIN EXAMPS AND 10 FEET FROM COCKES, GOLTER AREA SAN AND 10 FEET FROM COCKES, GOLTER AREA SAN AND 10 FEET FROM COCKES, GOLTER AREA SAN 40.12 (REFER TO MECHANICAL PLANS) 92. GENERAL LOBOTING FOR REFORMANCE PLANS 94. ALL MONTON FOR REFORMANCE AND PATHREC 95. CONSTRUCTION FOR REFORMANCE AND PATHREC 96. CONSTRUCTION FOR REFORMANCE AND PATHREC 97. FROM AND TO TRAIN FOR AND FAR RAILINGS 98. THE CONSTRUCTION FOR REFORMANCE AND FOR AND FAR 99. THE CONSTRUCTION FOR REFORMANCE AND FOR AND FAR 99. THE CONSTRUCTION FOR REFORMANCE AND FOR AND FAR 99. THE CONSTRUCTION FOR REFORMANCE AND FOR AND FOR 90. THE CONSTRUCTION FOR AND FAR RAILINGS 90. THE CONSTRUCTION FOR AND FOR AND FOR AND FOR 90. THE CONSTRUCTION FOR AND FOR AND FOR AND FOR 90. THE CONSTRUCTION FOR AND FOR AND FOR AND FOR 90. THE CONSTRUCTION FOR AND FOR AND FOR AND FOR 90. THE CONSTRUCTION FOR AND FOR AND FOR AND FOR 90. THE CONSTRUCTION FOR AND FOR AND FOR AND FOR 90. THE CONSTRUCTION FOR AND FOR AND FOR AND FOR 90. THE CONSTRUCTION FOR AND FOR AND FOR AND FOR 90. THE CONSTRUCTION FOR AND FOR AND FOR 91. THE CONSTRUCTION FOR AND FOR AND FOR 92. THE FOR AND FOR AND FOR AND FOR AND FOR 93. ALL THE FOR AND FOR AND FOR AND FOR AND FOR 94. THE CONSTRUCTION FOR AND FOR AND FOR AND FOR 95. THE CONSTRUCTION FOR AND FOR A		28. CONTRACTOR SHALL PROVIDE ALL NECESSARY AND CEILING MOUNTED ITEMS. 29. ALL EXTERIOR OPENINGS, FLASHING, COUNTER FL SHALL BE CONSTRUCTED IN SUCH A MATTER TO BE A
 AND 10 - PETER TO MODINE OSCIMELO AREDAR AND 32. SENERAL LIGHTING FOR KITCHEN AND BATRACO. 33. ALL ANDRALLE SHALLES AND YANG AND AND AND AND AND AND AND AND AND AND		30. ALL COVER PLATES, GRILLES, AND FIXTURES TO 31. EXHAUST FAN SHALL PROVIDE MINIMUM EXHAUST
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 9.4. ALL OPEN SUADERALES AND STAR RALINGS STAR R		GREATER. FLUORESCENT LIGHTING SEE ELEC. PLAN. 33. ALL HANDRAILS SHALL BE 34" MIN38" MAX. ABO BE CONTINUOUS. PER CRC SECT. R3 1 1.7.8.1, R3 1 1.7
CARLET VER TO ENDOUGH THE INTERNAL TO AND SECTOR CONSIDERED. FRE TO ENDOUGH ALL TAND SECTOR ST. REFELACE GAS VALUES MUST BE LOCATED MO FOR INSTALLATON IN THE PREPIACE PER CFC POR PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER CFC PER		34. ALL OPEN GUARDRAILS AND STAIR RAILINGS SH. THAT A SPHERE 4 INCHES IN DIAMETER CANNOT PAS & PER CBC SECT. 1015.4 HANDRAILS AND GUARDRA SINGLE CONCENTRATED LOAD OF 200 POUNDS, APP
 POR INSTALLATION IN THE FIREPLACE FER CPC 121 36. ALL UTLITY SERVICES LOCATED WITHIN THE FREUNDERGROUND. 37. WOOD FRAMING MEMBERS, INCLUDING WOOD SET FOR CONTROL AND ARE LESS THAN STIRATES TO AND ARE RESERVATIVES TO AND AND AND AND AND AND AND AND AND AND		STRUCTURE TO PRODUCE THE MAXIMUM LOAD EFFEC CONSIDERED. PER CBC SECT. 1607.8.1.1 AND SECT 35. FIREPLACE GAS VALVES MUST BE LOCATED NO
 31. MOOD FRANING MEMBERS, INCLUDIR MAY OND SI FOUNDATION MALLS AND ARE LESS THAN TO 'INCHES NATURALLY DURABLE OR PRESERVATIVE-TREATED SILLS ON CONCRETE OR MASONRY SLAB THAT IS IN BE OP NATURALLY DURABLE OR PRESERVATIVE-TR 2304.12.1.4 30. ELECTRICAL SYSTEM GROUND TO BE PROVIDED SI. ADDRESS IDENTIFICATION. THE ADDRESS PAPPROVED ADDRESS IDENTIFICATION. THE ADDRESS ADD PLACED IN A POSITION THAT IS VISILE FROM TH PROVER TWO DADRESS IDENTIFICATION CON CHARGE ROM TO PLACED IN A POSITION THAT IS VISILE FROM TH PROVER TWO DADRESS BENTIFICATION CON CHARGE ROM TO F 4 INCHES INFORMATION STA APPROVED LOCATIONS TO PACILITATE TEMPER COT F 4 INCHES INFORMATION STA APPROVED LOCATIONS TO PACILITATE TEMPER COT F 4 INCHES TO PACILITATE TEMPER COT FIRE CODE OFFICIAL ADDRESS IDENTIFICATION SHA APPROVED LOCATIONS TO PACILITATE TEMPER COT FIRE TO ADDITIONAL GENERAL NOTES CONTA COT THESE DRAWINGS. 		FOR INSTALLATION IN THE FIREPLACE PER CPC 121: 36. ALL UTILITY SERVICES LOCATED WITHIN THE PRO UNDERGROUND.
BE OF NATURALLE OR PRESERVATIVE-TE 2304.12.1.4 38. ELECTRICAL SYSTEM GROUND TO BE PROVIDE! 39. ADDRESS IDENTIFICATION. NEW AND EXISTING BE APPROVED ADDRESS IDENTIFICATION CHARACTER PROPERTY. ADDRESS IDENTIFICATION CHARACTER BACKGOUND. ADDRESS IDENTIFICATION CHARACTER DACKGOUND ADDRESS IDENTIFICATION SHA LETTERS. NUMBERS SHALL NOT BE SPELLED OUT. EX OF 4 NOMES SHALL NOT BE SPELLED OUT. EX OF 4 NOMES IDENTIFICATION SHA APPROVED LOCATIONS TO FACILITATE EMERGENCI- MEANS OF A PRIVATE ROAD AND THE BUILDIGA ADD FUBLIC MAY, A MOUNTERT, DELOT FIE DIENTIFICATION SHA APPROVED LOCATIONS TO FACILITATE EMERGENCI- MEANS OF A PRIVATE ROAD AND THE BUILDIGA ADD FUBLIC NAY, A MOUNTENT, POLLE OR OTHER APPROVED TO DENTIFY THE STRUCTURE. ADDRESS IDENTIFICATION SHA APPROVED LOCATIONS TO FACILITATE EMERGENCI- MEANS OF A PRIVATE ROAD AND THE BUILDIGA ADD FUBLIC NAY, A MOUNTENT, POLLE OR OTHER APPROVED TO DENTIFY THE STRUCTURE. ADDRESS IDENTIFICATION SHA APPROVED LOCATIONS TO FACILITATE EMERGENCI- MEANS OF A PRIVATE ROAD AND THE BUILDIGA ADD FUBLIC NAY, A MOUNTENT, POLLE OR OTHER APPROVED TO DENTIFY THE STRUCTURE. ADDRESS IDENTIFICATION SHA APPROVED ADDRESS AND ADDRESS IDENTIFICATION SHA APPROVED ADDRESS IDENTIFICATION SHA A		37. WOOD FRAMING MEMBERS, INCLUDING WOOD SH FOUNDATION WALLS AND ARE LESS THAN 8" INCHES NATURALLY DURABLE OR PRESERVATIVE-TREATED SILLS ON CONCRETE OR MASONRY SLAB THAT IS IN THE OF MASONRY SLAB THAT IS IN T
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		40. REFER TO ADDITIONAL GENERAL NOTES CONTA OF THESE DRAWINGS.

AL NOTES

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CONDITIONS AS PUBLISHED BY THE AMERICAN INSTITUTE OF ARCHITECTS, 201 (GENERAL CONTRACTOR CONDITIONS OF THE CONTRACT FOR), LATEST EDITION, SHALL GOVERN AND BE DEEMED A PART OF THESE

RUCTION DOCUMENTS ARE PROVIDED TO ILLUSTRATE THE DESIGN INTENT, FINEST QUALITY WORKMANSHIP THROUGHOUT. ANY DESIGN OR DETAIL IS TO BE INCONSISTENT WITH THE ABOVE SHOULD BE IMMEDIATELY THE ATTENTION OF THE ARCHITECT BY THE CONTRACTOR.

ARE BASIC EXISTING REQUIREMENTS, CONTRACTOR SHALL INSPECT AND COPE OF WORK. ANY ADDITIONAL WORK NOT SPECIFICALLY NOTED ON THE IT YET ARE APPARENT UPON FIELD INSPECTION SHALL BE CONSIDERED AS

IONS, REVISIONS, ADDITIONS, DELETIONS, SPECIFICATIONS, OR DETAILS HE INFORMATION CONTAINED HEREIN SHALL GOVERN THE PROJECT UNLESS RITING AND APPROVED BY THE ARCHITECT, OWNER AND CONTRACTOR EPRESENT PRIMARY REQUIREMENTS FOR DESIGN AND CONSTRUCTION DESCRIBED. CONTRACTOR IS REQUIRED TO HAVE SUBCONTRACTORS VIEW DRAWINGS FOR PROPER EXECUTION OF THE WORK. ANY ADDITIONAL UDED ON THE DRAWINGS YET REQUIRED TO SATISFY CODE FOR ISSUANCE OF CERTIFICATE OF OCCUPANCY SHALL BE CONSIDERED

UNDERSTOOD THAT ALL MECHANICAL, ELECTRICAL, PLUMBING AND FIRE NINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SERVE AS SHOP HE CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE SCOPE OF RNING OTHER TRADES AND SUBCONTRACTORS AND SHALL BE TO COORDINATE AND SEQUENCING WITH THIS WORK.

UCTION MEANS METHODS, MATERIALS AND TECHNIQUES SHALL COMPLY BT EDITION OF ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES AND THE FOLLOWING ARE HEREBY REFERENCED ALL WORK TO COMPLY WITH , 2019 CMC, 2019 CPC, 2019 CEC, AND 2019 CALIFORNIA ENERGY CODE 16 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS). THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL NINGS IN ROOF, FLOORS, WALLS, AND PLENUMS NECESSARY TO PROVIDE ACE FOR ALL ELECTRICAL, MECHANICAL AND PLUMBING EQUIPMENT,

RACTOR SHALL VERIFY ALL CONSTRUCTION DOCUMENTS, SITE DIMENSIONS NS AND SHALL NOTIFY THE ARCHITECT AND OWNER OF ANY DISCREPANCIES INCIES PRIOR TO STARTING WORK.

TORS SHALL PROCURE AND INCLUDE IN HIS BASE BID PRICE ALL NECESSARY TIFICATES AND NOTICES FOR THE PROJECT. OR MUST SHOW PROOF OF INSURANCE BEFORE CONTRACT IS AWARDED.

RMATION PROVIDED BY THE OWNER, ALL PROPERTY LINES, EASEMENTS, BUILDINGS ARE COPIED TO THIS SITE PLAN IOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND AILS IF ANY DISCREPANCIES OR INCONSISTENCIES ARE FOUND - CALL XR CLARIFICATION.

ALE DRAWINGS, WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER INGS. IONS ARE TO FACE OF STUD OR FACE BLOCK UNLESS OTHER WISE NOTED. ROOFS WITH PLYWOOD SHEATHING DIMENSIONS ARE TO THE EXTERIOR

NATER WILL DRAIN AWAY FROM THE BUILDING NOT LESS THAN - 5% SLOPE I DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE OUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE MUM OF 2% AWAY FROM BUILDING PER CBC SECT. 1804.4 NSERVING PLUMBING FIXTURES AND FITTINGS:

ET SUMPTION: THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL 1.28 GALLONS PER FLUSH WHEN TESTED IN ACCORDANCE WITH ASME SA B45.1 [CPC 4 1 1.2] WATER CLOSETS: DUAL FLUSH WATER CLOSETS SHALL COMPLY WITH ASME THE EFFECTIVE FLUSH VOLUME FOR DUAL FLUSH WATER CLOSETS SHALL BE THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND SH [CPC 4 1 1 2 1] 1. [CPC 411.2.1] 1. [CPC 411.2.1] E: WATER CLOSETS INSTALLED SHALL MEET OR EXCEED THE MINIMUM E CRITERIA DEVELOPED FOR CERTIFICATION OF HIGH-EFFICIENCY TOILETS ATERSENSE PROGRAM SPONSORED BY THE U.S. ENVIRONMENTAL AGENCY. [CPC 4 1 1.2.3] ETS: THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT SALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO ANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK [CPC 4 1 1.2.4][CALGREEN 4.303.1.1]

ETS. [HCD 1] THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT ALLONS PER MINUTE AT 60 PSI KITCHEN FAUCETS MAY TEMPORARILY FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER SI NOTE: WHERE FAUCETS MEETING THE MAXIMUM FLOW RATE OF 1.8 GPM BLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION CALGREEN 4.303.1.4.4]

AVATORY FAUCETS: THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY L NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOM DENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER PSI [CPC 407.2.2][CALGREEN 4.303.1.4.1.]

UMPTION: SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 MINUTE MEASURED AT 80 PSI AND MUST COMPLY WITH DIVISION 4.3 OF REEN BUILDING STANDARDS CODE (CALGREEN). [CPC 408.2] ERHEAD: SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT .8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO IANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR

ANCE CRITERIA OF THE U.S. EFA MATERSENSE SFECIFICATION FOR 5 [CPC 408.2.1][CALGREEN 4.303.1.3.1] WERHEADS SERVING ONE SHOWER: WHEN A SHOWER IS SERVED BY MORE WERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR IR OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 . MINUTE AT 80 PSI OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY OUTLET TO BE IN OPERATION AT A TIME NOTE: A HAND-HELD SHOWER SIGNERED A SHOWERHEAD [CPC 408.2.2][CALGREEN 4.303.1.3.2] DIDERED A SHOWERHEAD. [CPC 408.2.2][CALGREEN 4.303.1.3.2]

ESSURE REGULATOR OF 60 PSI SHALL BE PROVIDED AND LAWN SPRINKLER SYSTEMS SHALL HAVE APPROVED BACK-FLOW VEVICES PER CPC 603.5.7.

CHUT OFF VALVE ON GAS AND ALL COLD WATER LINES TO BUILDING RESSURE RELIEF VALVE WITH DRAIN TO OUTSIDE FOR WATER HEATER. PER VIDE SEISMIC STRAPPING OR ANCHORAGE RESISTING OVERTURNING OF PER CPC 507.2

DOM, KITCHEN, GARAGE, UTILITY ROOM, EXTERIOR AND ALL WET LOCATION TO BE GFCI. NG AND DRAFTSTOPPING SHALL BE PROVIDED PER CBC 718 & CRC

NGH R302.11.2 INDOWS IN EACH BEDROOM TO BE MAXIMUM 44" FROM FLOOR TO TOP OF MINIMUM CLEAR OPENING WIDTH OF 20", MINIMUM CLEAR OPENING HEIGHT OF IMUM NET CLEAR OPENING OF 5.7 SQUARE FEET. PER CRC SECT.

COMBUSTIBLE MANTELS OR TRIM MAY BE PLACED DIRECTLY ON THE EPLACE FRONT SURROUNDING THE FIREPLACE OPENING PROVIDING SUCH MATERIALS ARE NOT PLACED WITHIN & INCHES OF THE FIREPLACE OPENING. MATERIAL WITHIN 12 INCHES OF THE FIREPLACE OPENING SHALL NOT RE THAN 1/8 INCH FOR EACH ONE INCH DISTANCE FROM SUCH OPENING. MATERIALS LOCATED ALONG THE SIDES OF THE FIREPLACE OPENING THAT RE THAN 1 1/2 INCHES FROM THE FACE OF THE FIREPLACE SHALL HAVE AN ALEARANCE EQUAL TO THE PROJECTION PER CRC SECT. R 1001.1 1(4) & CBC

TILATION TO BE NOT LESS THAN 1/150 th. OF ATTIC AREA. OPENINGS ERED W/CORROSION-RESISTANT METAL MESH W/OPENINGS OF 1/16" ROOF VENTS PER CRC SECT. R806.1, R806.2, R806.3. & CBC SECT.

FOR SHALL PROVIDE ALL NECESSARY BACKING AND FRAMING FOR WALL OUNTED ITEMS. OR OPENINGS, FLASHING, COUNTER FLASHING AND EXPANSION JOINTS

TRUCTED IN SUCH A MATTER TO BE WEATHERPROOFED. PLATES, GRILLES, AND FIXTURES TO BE WHITE U.N.O.

AN SHALL PROVIDE MINIMUM EXHAUST RATE PER CMC TABLE 403.7, THE ET SHALL BE LOCATED A MINIMUM OF 10 FEET ABOVE ADJOINING GRADE ROM DOORS, OCCUPIED AREAS AND OPERABLE WINDOWS PER CMC SECT. TO MECHANICAL PLANS) IGHTING FOR KITCHEN AND BATHROOMS MUST BE 25 LUMENS / WATT OR DRESCENT LIGHTING SEE ELEC. PLAN.

AILS SHALL BE 34" MIN.-38" MAX. ABOVE THE STAIR TREAD NOSINGS AND . PER CRC SECT. R311.7.8.1, R311.7.8.4 & CBC SECT. 1014.2, 1014.4

N GUARDRAILS AND STAIR RAILINGS SHALL HAVE INTERMEDIATE RAILS SUCH RE 4 INCHES IN DIAMETER CANNOT PASS THROUGH. PER CRC SECT. R3 12.1.3 CT. 1015.4 HANDRAILS AND GUARDRAILS SHALL BE ABLE TO RESIST A ENTRATED LOAD OF 200 POUNDS, APPLIED IN ANY DIRECTION AT ANY POINT RAIL AND TO TRANSFER THIS LOAD THROUGH THE SUPPORTS TO THE O PRODUCE THE MAXIMUM LOAD EFFECT ON THE ELEMENT BEING . PER CBC SECT. 1607.8.1.1 AND SECT. 4.5.1.1 OF ASCE 7.

GAS VALVES MUST BE LOCATED NOT MORE THAN 6 FT. UNLESS LISTED TION IN THE FIREPLACE PER CPC 1212.6. SERVICES LOCATED WITHIN THE PROPERTY LINES SHALL BE INSTALLED

AMING MEMBERS, INCLUDING WOOD SHEATHING, THAT REST ON EXTERIOR IALLS AND ARE LESS THAN 8" INCHES FROM EXPOSED EARTH SHALL BE OF RABLE OR PRESERVATIVE-TREATED WOOD. PER CBC SECT. 2304.12.1.2 RETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH EARTH SHALL LLY DURABLE OR PRESERVATIVE-TREATED WOOD. PER CBC SECT

AL SYSTEM GROUND TO BE PROVIDED PER NEC 210-8

DENTIFICATION. NEW AND EXISTING BUILDINGS SHALL BE PROVIDED WITH DRESS IDENTIFICATION. THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE A POSITION THAT IS VISBLE FROM THE STREET OR ROAD FRONTING THE IN A POSITION THAT IS VISBLE FROM THE STREET OR ROAD FRONTING THE NDRESS IDENTIFICATION CHARACTERS SHALL CONTRAST WITH THEIR D. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL HERS SHALL NOT BE SPELLED OUT. EACH CHARACTER SHALL BE A MINIMUM HIGH WITH A MINIMUM STROKE WIDTH OF 1/2 INCH. WHERE REQUIRED BY THE FFICIAL, ADDRESS IDENTIFICATION SHALL BE PROVIDED IN ADDITIONAL OCATIONS TO FACILITATE EMERGENCY RESPONSE. WHERE ACCESS IS BY PRIVATE ROAD AND THE BUILDING ADDRESS CANNOT BE VIEWED FROM THE A MONUMENT, POLE OR OTHER APPROVED SIGN OR MEANS SHALL BE USED THE STRUCTURE. ADDRESS IDENTIFICATION SHALL BE MAINTAINED. PER CBC

ADDITIONAL GENERAL NOTES CONTAINED IN THE CONSULTANT SECTIONS

KEY NOTES

EX EXTERIOR FINISHES

EX1 TYP FLAT ROOF - PVC MEMBRANE ROOFING BY 'IB ROOF'

EX2 TYP. EXTERIOR PLASTER 7/8" THICK. 3 COAT EXTERIOR CEMENT PLASTER O/ C.M.U.; SMOOTH STEEL TROWEL FINISH, VERIFY W/ OWNER, PROVIDE SAMPLE FOR OWNERS APPROVAL

MMISCELLANEOUS M1 GUTTERS: 20 OZ. COPPER HALF ROUND GUTTER AND DOWNSPOUTS CONNECTED TO INTERNAL LEADER STORM DRAIN PIPES TO DRAIN SYSTEM REFER TO ROOF PLAN, ELEVATIONS, DETAILS & CIVIL PLANS. ALTERNATE PAINTED GALVANIZED TO BE APPROVED BY OWNER.

M2 EXTERIOR LIGHT FIXTURES BY OWNER; SEE ELECTRICAL PLAN S SITE FLATWORK / DETAILS ETC.

S1 DECORATIVE PAVER AT DRIVEWAY - PAVER W/ SAND FILLED JOINTS O/ COMPACTED BEDDING SAND O/ AGGREGATE BASE O/ COMPACTED AND STABILIZED SOIL SUBGRADE. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS AND AS PER SOIL AND CIVIL ENGINEERS RECOMMENDATIONS. LAYOUT AS SHOWN PER PLAN. SLOPE TO DRAIN. SEE DETAILS FOR EDGE DESIGN OPTIONS SHEET D 10. MUST MEET SANTA BARBARA CITY FIRE DEPARTMENT REQUIREMENTS FOR FIRE TRUCK ACCESS AND SUPPORT

MATERAL CHOICES: (PROVIDE SAMPLE FOR APPROVAL BY OWNER, ARCH., AND LAND. ARCH.) S2 DECORATIVE PAVER AT PATIOS AND WALKWAYS - PAVER W/ SAND FILLED 52 DECORATIVE PAVER AT PATIOS AND WALKWAYS - PAVER W/ SAND FILLED JOINTS O/ COMPACTED BEDDING SAND O/ AGGREGATE BASE O/ COMPACTED AND STABILIZED SOIL SUBGRADE. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS AND AS PER SOIL AND CIVIL ENGINEERS RECOMMENDATIONS. LAYOUT AS SHOWN PER PLAN. SLOPE TO DRAIN. SEE DETAILS FOR EDGE DESIGN OPTIONS SHEET D10. MATERAL CHOICES:

(PROVIDE SAMPLE FOR APPROVAL BY OWNER, ARCH., AND LAND. ARCH.)

S3 BRICK PAVER WALKWAYS/TERRACES W/ GROUTED JOINTS - MORTAR BRICK OVER REINFORCED CONC. SLAB.(SEE STRUCTURAL ENGINEER'S DRAWINGS FOR CONCRETE AND STEEL SCHEDULE) LAYOUT AS SHOWN PER PLAN. BRICK SHALL BE FLUSH TO EACH OTHER & TO ADJOINING HARDSCAPE. SLOPE TO DRAIN. COORDINATE W/ L. ARCH. & ARCHITECT'S / CIVIL ENGINEERS GRADING PLANS TO BALANCE AESTHETICS WITH THE OVERALL SITE DRAINAGE FUNCTIONAL REQUIREMENTS. GROUTED JOINTS SHALL APPROVED BY OWNER. MATERIAL CHOICES: (PROVIDE SAMPLE FOR APPROVAL BY OWNER, ARCH., AND LAND. ARCH.)



SIGNS ALONG EXTERIOR ROU PUBLIC ENTRANCE AND AT EX ACCESSIBLE ROUTE OF TRAV CIRCULATION PATH ALONG OF OF TRAVEL, ENTRANCE, OR F, DISPLAYING THE INTERNATION SHALL INDICATE THE DIRECTION AND FACILITIES. PER CBC SEC DIRECTIONAL SIGNS: SIGN SHA SYMBOL OF ACCESSIBILITY, IN THE SYMBOL OF ACCESSIBILITY, IN THE SYMBOL SHALL CONSIST BACKGROUND. THE BLUE SHAL IN FEDERAL STANDARD 5955 DIRECTIONAL SIGNS, AS REQU
JUNCTIONS OF ALL PATHS OF THE ACCESSIBLE ENTRANCE A TO BE VISIBLE TO PERSONS A WAYS. THE BORDER DIMENSION MINIMUM IN HEIGHT. MOUNT SIGN OUT OF THE PATH HEIGHT 40 INCHES TO GROUND SITE DIRECTIONA





Wildland-Urban Interface Area Construction 1.) Roof covering for structures located within a State or Local Agency Very High Fire Hazard (11.) Exterior glazing (exterior windows, exterior glazed doors, glazed openings within exterior Severity Zone pursuant CRC Section R337 is to be a fire-retardant Class A roof covering. doors, glazed openings within exterior garage doors, exterior structural glass veneer, Roof covering for structures in the Montecito Fire Protection District is to be fire-retardant skylights, vents) subject to CRC Section R337 are to be multi-pane glazing with a minimum Class A roof covering. [CRC R902; Montecito Fire Protection District Ordinance] of one tempered pane, or glass block units, or have a fire resistance rating of not less than 20 minutes when tested in accordance with NFPA 257, or tested to meet the performance requirements of SFM Standard 12-7A-2. [CRC 337.8.2] Where the roofing profile has an airspace under the roof covering, installed over a ombustible deck, a 72 pound cap sheet complying with ASTM D3909 Standard Specification for "Asphalt Rolled Roofing (Glass Felt) Surfaced with Mineral Granules," shall Operable skylights shall be protected by a noncombustible mesh screen with maximum be installed over the roof deck. Bird stops shall be used at the eaves when the profile fits, to opening not to exceed 1/8 inch. [CRC R337.8.2.2] prevent debris at the eave. Hip and ridge caps shall be mudded in to prevent intrusion of fire (13.) Exterior doors shall comply with one of the following: 1. Exterior surface or cladding shall be or embers. (Exception: Cap sheet is not required when no less than 1 inch of mineral wool of non-combustible or ignition resistant material or, 2 Shall be constructed of solid core board or other noncombustible material is located between the roofing material and wood wood that comply with the following: stile and rails shall not be less than 1-3/8 inches thick, framing or deck.) raised panels shall not be less than 1-1/4 inches thick, except for the exterior perimeter of Alternatively, a Class A fire rated roof underlayment shall be permitted to be used. If the the raised panel that may taper to a tongue not less than 3/8 inch thick, 3. Shall have a fire sheathing consists of exterior fire-ratardant-treated wood, the underlayment shall not be -resistance rating of not less than 20 minutes when tested according to NFPA 252, 4. Shall be tested to the performance requirements of SFM Standard 12-7A-1. [CRC R337.8.3] required to comply with a Class A classification. Bird stops shall be used at the eaves when the profile fits, to prevent debris at the eave. Hip and ridge caps shall be mudded in to (14.) Perimeter gap at exterior garage doors shall not exceed 1/8" to prevent intrusion of embers. prevent intrusion of fire or embers. [CRC R337.5.2] Gaps between the doors and door openings shall be provided with weather stripping products meeting ASTM D638 after exposure to ASTM G155 test for tensile strength Where valley flashing is installed, the flashing shall be not less than 26 gauge galvanized sheet corrosion-resistant metal installed over a minimum 36" wide underlayment consisting retention and exhibit a V-2 or better flammability rating when tested to UL 94 standard, or of one layer of minimum 72 pound mineral-surfaced non-perforated cap sheet complying shall be designed with door overlaps onto jambs and headers, or shall have door jambs and headers covered with metal flashing. [CRC R337.8.4] with ASTM D3909 installed over the combustible decking. [CRC R337.5.3] (4.) Roof gutters shall be provided with the means to prevent the accumulation of leaves and (15) Pursuant CRC R337.9, the walking surface material of decks, porches, balconies, stairs and debris in the gutter. [CRC R337.5.4] landings where any portion of such surface is within 10 feet of the structure shall be constructed of 1) material that complies with the performance requirements CRC R337.9.4 (5.) Exterior wall coverings and/or exterior wall assemblies shall comply with one or more of the when tested in accordance with both ASTM E2632 and ASTM E2726, 2) ignition-resistant following, and wall coverings shall extend from the top of the foundation to the 2x minimum material that complies with the performance requirements of CRC R337.9.4, 3) material that complies with the performance requirements of both SFM Standard 12-7A-4 and CRC blocking between rafters at the eaves or to the bottom of the enclosure in the case of boxed or enclosed eaves [CRC R337.7.3 & R337.7.4]: R337.4.3, 4) exterior fire retardant treated wood, 5) non-combustible material, 6) any material that complies with the performance requirements of SFM Standard 12-7A-4A when 5.1. Noncombustible material. 5.2. Ignition-resistant material meeting the requirements of CRC R337.4.2. adjacent exterior wall covering is also either non-combustible or ignition-resistant material, or 5.3. Fire-retardant-treated wood labeled for exterior use and meeting the requirements of any material that complies with the performance requirements of CRC R337.9.5 when tested in accordance with ASTM E2632 when adjacent exterior wall covering is also either CBC Section 2303.2. noncombustible or ignition-resistant material. [CRC R337.9] 5.4. Wall assembly containing minimum one layer of 5/8" Type X gypsum sheathing applied behind the exterior wall covering on the exterior side of the framing. Group U occupancy accessory buildings which are attached or where any portion of such 5.5. Constructed as an approved 1-hour fire-resistant wall assembly suitable for exterior structure is within 50 feet of a residential or applicable building on the same lot shall be fire exposure. 5.6. Wall assembly of minimum 4x T&G or splined planks constructed of 1) noncombustible material, 2) ignition-resistant materials, or 3) exterior 5.7. Log wall construction assembly. fire-retardant-treated wood meeting the requirements of CBC Section 2303.2. [CRC R337.10.2] Except for fascia and architectural trim boards, the exposed roof deck on the underside of open roof eaves shall be non- combustible material, shall be ignition-resistant material Miscellaneous structures such as patio covers, carports, gazebos, trellises, arbors, and meeting the requirements of CRC R337.4.2, shall be exterior grade fire-retardant-treated similar structures which are attached to or located within 50 feet from an applicable building wood meeting the requirements of CBC 2303.2, shall have a minimum of one layer of 5/8" on the same lot shall be constructed of 1) noncombustible material, 2) ignition- resistant Type X gypsum sheathing applied behind an exterior covering on the underside of the roof material, or 3) exterior fire-retardant-treated wood meeting the requirements of CBC 2303.2 [CRC R337.10.3.4] deck, or the underside of the roof deck shall be constructed as the exterior portion of an approved 1-hour fire-resistant-rated assembly on the exterior side. [CRC R337.7.5] (18.) For buildings located in any Fire Hazard Severity Zone or Wildland-Urban Interface area, attic ventilation is to be provided per CRC Section R806 and must comply with the Except for fascia and architectural trim boards, the exposed underside of enclosed roof requirements of CRC Section R337.6. Net free ventilated area is to be a minimum of 1/150 eaves (and eave soffits) having either a boxed-in roof eave soffit with a horizontal underside or sloping rafter tails with an exterior covering applied to the underside of the rafter tails shall of the area of space ventilated. Area may be 1/300 when at least 40 percent and not more be non-combustible material, shall be ignition-resistant material meeting the requirements of than 50 percent of the required ventilating area is provided by upper ventilators located not CRC R337.4.2, shall be exterior grade fire-retardant-treated wood meeting the requirements more than 3 feet below the ridge or highest point of the space, measured vertically. The of CBC 2303.2, shall have a minimum of one layer of 5/8" Type X gypsum sheathing applied balance of the required ventilation shall be provided by eave or other roof vents located in the bottom third of the attic space. Enclosed rafter spaces shall be provided with a minimum behind the exterior covering on the underside of the eave, or the underside of the rafter tails 1" airspace between the insulation and roof sheathing to allow for the movement of air. or soffit shall be constructed as an approved 1-hour fire-resistant-rated assembly on the exterior side. [CRC R337.7.6] Ventilation openings for enclosed attics, gable ends, ridge ends, under eaves and cornices enclosed eave soffit spaces, enclosed rafter spaces, underfloor ventilation, foundations and Except for architectural trim, the exposed underside of exterior porch ceilings shall be non-combustible material, shall be ignition-resistant material meeting the requirements of crawl spaces, or any other opening intended to permit ventilation, either in a horizontal or CRC R337.4.2, shall be exterior grade fire-retardant-treated wood meeting the requirements vertical plane, shall be fully covered with Wildfire Flame and Ember Resistant vents approved and listed by the California State Fire Marshal, or WUI vents tested to ASTM of CBC 2303.2, shall have a minimum of one layer of 5/8" Type X gypsum sheathing applied behind the exterior covering on the underside of the ceiling, or shall be constructed as an E2886 and listed. [CRC R337.6] approved 1-hour fire-resistant-rated assembly on the exterior side. [CRC R337.7.7] Ridge vents and vents that are installed on a sloped roof, such as dormer vents, shall be covered with a noncombustible, corrosion resistant mesh with the openings not to exceed Except for architectural trim, the exposed underside of cantilevered floor projections where a floor assembly extends over an exterior wall shall be non-combustible material, shall be 1/8 inch in diameter. ignition-resistant material complying with the requirements of CRC R337.4.2, shall be Unvented attic assemblies can be approved provided the unvented attic space is completely exterior grade fire-retardant-treated wood meeting the requirements of CBC 2303.2, shall contained within the building thermal envelope and no interior vapor retarder is installed on have a minimum of one layer of 5/8" Type X gypsum sheathing applied behind the exterior the ceiling side of the unvented attic assembly. Insulation shall be applied in direct contact covering on the underside of the floor projection, or shall be constructed as an approved 1-hour fire-resistant-rated assembly on the exterior side. [CRC R337.7.8] with the underside of the structural roof sheathing and shall either be entirely of an air-impermeable product or shall have a layer of air-impermeable product installed in direct (10. The underfloor area of elevated or overhanging buildings and appendages shall be enclosed contact with the underside of the structural roof sheathing for proper condensation control to grade in accordance with CRC R337 or the exposed underfloor shall be non-combustible with the balance of the insulation being air-impermeable below it. (Note: Air-permeable insulation alone may be applied directly below the structural sheathing when rigid insulation material, shall be ignition-resistant material complying with the requirements of CRC with an R-value of R-5 minimum is installed directly above the structural roof sheathing for R337.4.2, shall be exterior grade fire-retardant-treated wood meeting the requirements of CBC 2303.2, shall have a minimum of one layer of 5/8" Type X gypsum sheathing applied condensation control) [CRC R806.5] behind the exterior covering on the underside of the elevated floor, or shall be constructed as an approved 1-hour fire-resistant-rated assembly on the exterior side. (Exception: Structural columns and beams, constructed with lumber with the smallest nominal dimension of 4" do not require protection.) [CRC R337.7.9, R337.7.10] NOTE TO DESIGNER: CHECK THE APPROPRIATE BOX AND/OR FILL OUT REQUIRED INFORMATION IN TABLE BELOW OF PROPOSED COMPLIANCE METHOD UNDER EACH APPLICABLE CATEGORY *(d) *(f) *(h) en roof Enclosed Exterior Cantilevered Decking, Accessory Misc. or elevated stairs & buildings structures roof eave wall & soffit

Footnotes High Fire Construction Compliance Method	*(a) Class A roofing	*(b) Spray foam insulation	*(c) Ope eave
Roof and/or spray foam approved listing	Listing #	Listing #	
7/8" Exterior plaster			
Non-combustible			
Ignition-resistant			
Exterior fire-retardant-treated wood mfr. product:			\boxtimes
5/8" Type 'X' gypsum applied behind any exterior covering			
Exterior portion of 1-hr fire-resistant-rated assembly			
Minimum 4x T&G or splined planks wall assembly			
Log wall construction assembly			



TECHNICAL NOTE FOR ADDITIONAL INFORMATION: <u>www.frtw.com</u> or 1.800.TEC.WOOD (832.9663)

SPECIFICATIONS

PART	1 - General Product Information
	A. Lumber and plywood designated ExteriorFireX [™] has a flame spread index of 25 or less
	(Class A) when tested in accordance with ASTM E84, "Standard Test Method for Surface
	Burning Characteristics of Building Materials."
	B. ExteriorFireX [™] fire-retardant-treated wood shows no evidence of significant progressive
	combustion when the test is extended for an additional 20-minute period. The flame front doe
	not progress more than 10 1⁄2 feet beyond the centerline of the burners at any time during
	the test. Surface burning characteristics for each species and product are listed by Underwrite
	Laboratories (UL).
	C. ExteriorFireX [™] shows no increase in the listed classification when evaluated for flame
	spread after testing in accordance with ASTM D2898 "Standard Test Methods for Accelerated
	Weathering of Fire-Retardant-Treated Wood for Fire Testing."
	D. ExteriorFireX ^{III} lumber and plywood is manufactured under the independent third-party in
	spection of Underwriters Laboratories (UL) Follow-Up Service and each piece shall bear the
	UL classified mark indicating the extended 30 minute ASTM E84 test and no increase in
	classification after ASTM D2898.
	E. ExteriorFirex shall be kill-oried after treatment (KDAT). The kill drying process is
	E ExteriorEiroV [™] mosts the performance requirements of AWDA 11 Specification H for Los
	Category LICEB (fire protection exterior above ground) and AWPA C1, Specification H lor Ose
	G Exterior Fire X^{m} is available with a blue colorant or branding as required for identification b
	the nuclear power industry and Department of Defense (DOD) Mil Spec requirements. Type II
	(Exterior Type).
	H. ExteriorFireX [™] is listed on the Oualified Products List (OPL) for Mil Spec Mil-L 19140E.
PART	2 - Fire-Retardant Treatment
	A. ExteriorFireX [™] is manufactured by Hoover Treated Wood Products, Inc.
	B. ExteriorFireX [™] is a proprietary product of Hoover Treated Wood Products Inc.
	No substitutions permitted.

D. ExteriorFireX[™] lumber and plywood shall use design value adjustments and span ratings as published by theHoover Treated Wood Products Inc.

- E. ExteriorFireX[™] fire-retardant treatment is free of halogens, sulfates, chlorides, ammonium phosphate, and contains no added urea formaldehyde.
- F. Lumber and plywood of the appropriate size, grade and species, and bond durability
- shall be specified by the designcriteria for the intended application. **G.** Plywood shall have a minimum bond durability of Exposure 1 in accordance with

US Product Standard PS 1, Construction and Industrial Plywood. H. Grade marked structural lumber treated with ExteriorFireX[™] shall be in accordance with PS 20.

PART 3 – Execution

plywood may be cut in any direction.

15% for plywood.

A. ExteriorFireX[™] is a leach resistant fire-retardant treatment and may be installed with direct exposure to precipitation; however, it cannot be substituted for preservative treated wood. **B.** Exterior FireX[™] fire-retardant-treated lumber and plywood used in structural applications shall be applied according to the lumber and plywood strength tables available from Hoover Treated Wood Products. C. Field cutting is allowed without end treating. Do not rip or mill fire-retardant-treated lumber. Cross cuts, joining cuts, and drilling holes are permitted in lumber. Fire-retardant-treated



CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION OFFICE OF THE STATE FIRE MARSHAL FIRE ENGINEERING & INVESTIGATIONS DIVISION **BUILDING MATERIALS LISTING PROGRAM**

LISTING SERVICE

LISTING No.:	2520-1701:0100
CATEGORY:	2520 - TREATED LUMBER
LISTEE:	HOOVER TREATED WOOD PRODUCTS, INC. 154 WIRE ROAD, THOMS 30824 Contact: Athari, Chris (706) 755-5350 (706) 595-6600 Email: cathari@frtw.com
DESIGN:	Treated Lumber with EXTERIOR FIRE X. Products are pressure impregnate "EXTERIOR FIRE X" fire retardant chemical. EXTERIOR FIRE X covers the types of lumber: Douglas Fir, Southern Yellow Pine, Western Red Cedar, ar Lumber. Refer to listee's printed installation instructions for additional detailed description and constructions.
RATING:	Douglas Fir: 15 Flame Spread; 30 Smoke Developed
	Southern Yellow Pine:15 Flame Spread; 50 Smoke Developed
	Western Red Cedar:10 Flame Spread; 30-105 Smoke Developed
	Redwood:10 Flame Spread; 10-115 Smoke Developed
	*Tested to ASTM E84 with an additional 20 minutes and ASTM D2898.
INSTALLATION:	In accordance with listee's printed installation instructions, applicable codes and in a manner acceptable to the authority having jurisdiction.
MARKING:	Listee's name, product identification, classification, and Underwriter's Labor
APPROVAL:	Listed as exterior type fire retardant treated lumber. Also approved for use a resistant materials as specified in Chapter 7A of the *California Building Cool lumber must be pressure treated with the fire retardant chemical at the factor authorized service inspection.

Page 1 of 2



LISTING SERVICE

OFFICE OF THE STATE FIRE MARSHAL

FIRE ENGINEERING & INVESTIGATIONS DIVISION

BUILDING MATERIALS LISTING PROGRAM



N/A N/A N/A N/A N/A Listing # Listing # Listing # Listing # Listing # _isting # Listing # N/A N/A N/A N/A N/A N/A └── N/A Listing # Listing # Listing # Listing # Listing # N/A _____N/A___ ____ N/A N/A ____ N/A

.isting # N/A □ N/A HOOVER N/A N/A N/A N/A N/A N/A ExtFireX N/A N/A N/A N/A _isting # N/A Listing # Listing # Listing # N/A └ N/A _____N/A N/A N/A



ExteriorFireX[™] Exterior Fire-Retardant-Treated Wood

dex of 25 or less od for Surface cant progressive ne flame front does ny time during ted by Underwriters

increase in process is on the label. fication H for Use (Exterior Type). for identification by irements, Type II

ts Inc. C. ExteriorFireX[™] shall be kiln-dried to a maximum moisture content of 19% for lumber and

DISCLAIMER OF LIABILITY FOR RELIANCE ON INFORMATION PROVIDED BY HOOVER TREATED WOOD PRODUCTS. INC.: The information contained herein is true and accurate to the best of our knowledge, but is provided without warranty or guarantee. Since the conditions of use are beyond our con trol, Hoover Treated Wood Products, Inc. ("Hoover"), disclaims all liability and assumes no legal responsibility for damages resulting from use of or reliand





PACIFIC ARCHITECTS

1117 COAST VILLAGE RD. MONTECITO, CA 93108 8 0 5 . 5 6 5 . 3 6 4 0





PECIFIED PROJECT. I F SUCH IDEAS, DESIGNS, O LANS SHALL BE USED FOR NY PURPOSE MHATSOEVER NITHOUT THE WRITTEN PERMISSION OF PACIFIC ARCHITECTS.

Revision	Description	Date
2	PLAN CHK	3/26/24
З	PLAN CHECK	5/29/24

Job Numbe ^{___}Date:^{__}07.11.23



Sheet





chnical Data Sheet IB PVC Single-Ply 50

IB PVC Single-Ply 50 is a polyester scrim reinforced, compounded pvc resin based sheet with plasticizers, stabilizers, fillers, pigments and other proprietary materials meeting ASTM D4434, Type III. Rolls are manufactured in a nominal 50 mil thickness and use an anti-wicking scrim for added strength, tear resistance and enhanced moisture resistance.

Packaging: Size 6' x 90'

Product Description:

Sq. Ft. / Weight per roll (approx.) 540 sq. ft. / 175 lbs. 3' x 90' 270 sq. ft. / 90 lbs.

- Features: • Meets and exceeds ASTM D 4434-12, Type III Thermoplastic Membrane • 15-Year Limited Material Warranty
- Excellent flexibility in all climates
- Highly reflective IB PVC Single-Ply can help to reduce heat transfer through the roof into the building's interior • Thick, heavy duty 24 mil top ply weathering film Thermally welded seams provide superior seam strength
 Exceeds Energy Star[™] and California Title 24 requirements for Solar Reflectance and Emissivity

Use:

(White, Cool Sand)

IB PVC Single-Ply 50 can be installed in new, recover, and re-roof constructions as the primary field membrane and base flashing at all roof to wall transitions. It can be mechanically attached or fully adhered to a properly prepared substrate with approved fasteners and membrane plates or approved membrane adhesive.

Warranties: IB PVC Single-Ply 50 has a 15-Year Limited Material Warranty and is available for 'Warranty Plus' and 'Total Systems' warranties for IB Roof Systems Authorized Applicators.

Available Colors: White, tan, gray and brown.

Approvals: IB PVC membranes are listed with various component assemblies at UL and Factory Mutual (F.M. Global) for fire, wind uplift and impact resistance. Visit our website for links to these agencies and listings at: www.ibroof.com.

IB Roof Systems



Solar Reflectance / Thermal Emittance / Calculated SRI Values								
Membra	ne	Solar	Thermal SRI Value		è	SRI Value	LRV	
Color		Reflectance	Emittan	ice	Initial		3-Year Aged	
White	•	0.870	0.88		110		91	94.3
Tan		0.366	0.87		39		N/A	30.2
Gray		0.163	0.88		13		N/A	18.1
Brown	1	0.079	0.87		2		N/A	7.2
Property				I	Method	F	Requirement	50 Mil
Overall thi	ckne	ss of PVC sheet,	min. (in.)	A	STM D751		0.045	0.050 nom.
Breaking s	tren	gth, min. (lbf/in	.)	A	STM D751		200 x 200	332 x 256
Elongatior	n at t	he break, min. 9	%	A	STM D751		15 ^a x 15 ^a	34 x 29
Retention	of pr	operties after h	eat aging	AS	TM D3045			
(min. % of	forig	inal):						
Breakin	Breaking strength			A	STM D751		90	Pass
Elongat	ion			A.	STM D751		90	Pass
Tearing str	Tearing strength, min. (lbf)		A.	STM D751		45.0	54 x 68	
Low temp	eratı	ıre bend		AS	TM D2136		-40°F	Pass
Accelerate	d we	athering test:		A	STM G154			
Cracking	g (7x	magnification)					None	None
Crazing	(7x ı	magnification)					None	None
Linear dim	nensi	on change, max	κ%	AS	TM D1204		+/-0.5	-0.30 MD
								0.02 XMD
Change in water, ma	Change in weight after immersion in water, max %		A	STM D570		+/-3.0	1.1	
Static puncture resistance		AS	TM D5602		Pass	Pass		
Dynamic puncture resistance			A	STM 5635		Pass	Pass	
^A For reinforcing fabric only, elongation of PVC material shall be 250% MD and 220% XMD								
The table presents typical properties of IB PVC membranes. Requirements are taken from								
ASTM D44	34-1	2.						

Recycle Content 20% Pre Consumer

PROVIDE CONDUIT & ---SERVICE TO FUTURE ROOF SOLAR PANELS

PVC MEMEBRANE ROOF SYSTEM (CLASS 'A') (COLOR: GRAY)



___z___



P A C I F I C ARCHITECTS

1117 COAST VILLAGE RD. MONTECITO, CA 93108 8 0 5.5 6 5.3 6 4 0

N U





SOUTH ELEVATION





NORTH ELEVATION



MEST ELEVATION



P A C I F I C ARCHITECTS

1117 COAST VILLAGE RD. MONTECITO, CA 93108 8 0 5.5 6 5.3 6 4 0





Revision	Description	Date
1	CARPORT CHANGE	8/24/23
2	PLAN CHK	3/26/24
3	PLAN CHK	5/29/24

. . Job Number: _____ Date: 07.11.23



Sheet of



MECHANICAL - HEATING & VENTILATION (RESIDENTIAL) 2019

DWELLING SPACES INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH ACTIVE OR PASSIVE SPACE-HEATING SYSTEM(S) CAPABLE OF MAINTAINING A MIN. INDOOR TEMPERATURE OF 68° DEGREES FAHRENHEIT (20°C) AT A POINT 3 FEET ABOVE THE FLOOR AND 2 FEET FROM EXTERIOR WALLS ON IN ALL HABITABLE ROOMS. * PER [CBC SECT. 1203.1] & [CRC SECT. R303.10].

- ALL BATHROOM RELATED ROOMS CONTAINING A BATHTUB, SHOWER, SPA OR SIMILAR SOURCE OF MOISTURE ARE TO PROVIDED WITH AN EXHAUST FAN WITH AN EXHAUST RATE THAT DELIVER VENTILATION AIRFLOW AT 50 CFM MINIMUM INTERMITTENT OR 20 CFM CONTINUOUS, DUCTED TO THE EXTERIOR OF THE BUILDING FOR EACH BATHROOM UNIT. CMC TABLE 403.7 ALL CEILING MOUNTED INTERMITTENT LOCAL VENTILATION FANS TO HAVE A SOUND RATING OF THREE SONES OR LESS AT THE REQUIRED AIRFLOW RATE. IT MUST BE CONTROLLED BY A READILY ACCESSIBLE HUMIDISTAT & SHALL BE ENERGY STAR COMPLIANT.
- ALL ENCLOSED WATER CLOSET COMPLARTMENTS ARE TO PROVIDED WITH AN EXHAUST FAN WITH AN EXHAUST RATE THAT DELIVER VENTILATION AIRFLOW AT 50 CFM MINIMUM INTERMITTENT OR 20 CFM CONTINUOUS, DUCTED TO THE EXTERIOR OF THE BUILDING FOR EACH UNIT. ALL CEILING MOUNTED INTERMIT. LOCAL VENTILATION FANS TO HAVE A SOUND RATING OF THREE SONES OR LESS AT THE REQUIRED AIRFLOW RATE. IT MUST BE CONTROLLED BY A READILY ACCESS. HUMIDISTAT & SHALL BE ENERGY STAR COMPLIANT PER CMC AND CRC R3033 PER CMC AND CRC R303.3
- ALL BATH EXHAUST FANS ARE REQ. TO BE CONTROLLED BY A 'HUMIDISTAT' * PER THE GREEN BUILDING STANDARDS CODE SECTION 4.506. [R303.3.1 CRC] 4. VENT FANS MUST BE SWITCHED SEPARATELY FROM LIGHTING. * PER CALIFORNIA ENERGY CODE 150(k)2B.
- THE KITCHEN HOOD SHALL BE PROVIDED WITH AN EXHAUST FAN THAT SHALL BE ENERGY STAR COMPLIANT, THAT SHALL DELIVER VENTILATION AIRFLOW AT 100 CFM MIMIMUM FOR INTERMITTENT EXHAUST OR 5 AIR CHANGES PER HOUR IF CONTINOUS
- KITCHEN HOOD SYSTEMS THAT VENT AIR TO THE OUTSIDE MAYBE USED FOR THIS PURPOSE. *[CALIFORNIA ENERGY CODE SECTION 150(0)]. LOCAL VENTILATION FANS HAVE A SOUND RATING OF THREE SONES OR LESS AT THE REQUIRED AIRFLOW RATE.
- 6. THE DISCHARGE POINT FOR EXHAUST AIR SUCH AS HOODS, DRYER & BATH VENTS SHALL TERMINATE A MIN. OF 3 FEET FROM PROPERTY LINES & 3 FEET FROM OPENINGS INTO BUILDINGS (WINDOWS/DOORS INCLUDING UNDERFLOOR AIRVENTS) AND 10 FEET FROM FORCED AIR INTAKES. * PER [CMC 502.2.1]. THE RETURN AIR PLENUM SERVING THE MECHANICAL EQUIPMENT MUST BE FULLY DUCTED FROM THE EQUIPMENT TO THE CONDITIONED SPACE. DROP CEILINGS, WALL CAVITIES AND EQUIPMENT PLATFORMS MAY NOT BE USED AS PLENUMS.
- JOINTS & OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER STRIPPED OR OTHERWISE SEALED TO LIMIT INFILTRATION & EXFILTRATION . * PER [CEC 1 10.7]
- 8. DUCT TAPE, AS A MINIMUM, MEETING THE REQUIREMENTS OF UL 181, 181A, OR 81B, SHALL BE USED OR ADDITIONAL DUCT ATTACHMENT DEVICES SUCH AS TIE WRAPS OR MASTIC WILL BE REQUIRED FOR INSTALLING MECH DUCTING.
- 9. ALL GAS FIREPLACES SHALL BE DIRECT-VENTED, SEALED COMBUSTION TYPE. * PER [CGBC - 4.503.1]
- 10. FIREPLACE GAS OUTLET "LOG LIGHTER" CONTROL VALVES SHALL BE LOCATED IN THE SAME ROOM AS THE OUTLET AND OUTSIDE THE REQUIRED HEARTH AREA AND A 4 FEET MAXIMUM FROM THE OUTLET. PER CPC 1212.6
- 1 1. PROVIDE COMBUSTION AIR FOR FUEL BURNING EQUIPMENT IN CONFORMANCE W/ CHAPTER 7 OF THE CMC AND CHAPTER 5 CPC; * PER [CPC 506.2 506.7 AND CMC 701.4 CMC 701.9.3] 12. PROVIDE COMBUSTION AIR FOR CLOTHES DRYER PER DRYER MANUFACTURER INSTRUCTIONS AND IN ACCORDANCE WITH *[CMC 701.1.[CMC 701]
 - DRYER VENT AS PER C.M.C. SECT.S' 504.4 \$ 908 DRYER MANUFACTURERS INSTALLATION INSTRUCTRIONS ARE TO BE AVAILABLE ON JOB SITE AT THE TIME OF INSPECTION. DRYER VENT TO OUTSIDE AIR TO BACKDRAFT DAMPERED WALL VENT CAP.
 - NOTE: DISCHARGE POINT FOR EXHAUST AIR MUST BE AT LEAST 3 FEET FROM ANY OPENING WHICH ALLOWS AIR ENTRY INTO OCCUPIED PORTIONS OF THE BUILDING, AS PER C.M.C. SECT. 502.2.1. DUCT LENGTH SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL & VERTICAL LENGTH OF 14 FT., INCLUDING (2) 90 DEGREE ELBOWS. TWO FT. SHALL BEDEDUCTED FOR EACH 90 ELBOW IN EXCESS OF (2), AS * PER [CMC SECT. 504.4.2.1]
 - DRYER VENT PROVIDE FOR 2 SQ. INCHES PER 1000 BTU BUT NOT LESS THAN 100 SQ.
 - INCHES DRYER APPIANCE IS 35 MBH [BTUH].
 - THE CALCULATION IS AS FOLLOWS: CALCULATION: 35,000 BTU DIVIDED BY 2 = 17.5 SQ IN. FREE AREA [BASED ON A 50% FREE AREA LOUVER]
 - 17.5 WOULD BE DOUBLED 17.5 [X] 2 = 36 5Q IN.
 - THE MINIMUM REQUIRED IS 100 SQ IN PROVIDED A LOUVER THAT IS 24X8 = 192 SQ IN
- 13. PAD SUPPORTING COMPRESSOR OR CONDENSER SHALL BE INSTALLED WITH A MINIMUM OF 3" ABOVE GRADE. * PER [CMC 1 105.2]
- 14. MEANS FOR INTERRUPTING THE ELECTRICAL SUPPLY TO THE AIR CONDITIONING EQUIPMENT AND TO ASSOCIATED COOLING TOWER SHALL BE PROVIDED WITHIN SIGHT OF AND NOT OVER 50 FT. FROM THE AIR-CONDITIONER AND TOWER.

2019

- MECHANICAL ACCESS (RESIDENTIAL)
- AN ATTIC SPACE IN WHICH AN APPLIANCE IS INSTALLED SHALL BE ACCESSIBLE THROUGH AN OPENING AND PASSAGEWAY AT LEAST AS LARGE AS THE LARGEST COMPONENT OF THE APPLIANCE AND NOT LESS THAN 22-IN. X 30-IN. PER [CMC
- 2. 30-IN. MIN. VERTICAL CLEARANCE FROM TOP OF CEILING FRAMING MEMBERS TO UNDERSIDE OF ROOF FRAMING MEMBERS PER [CBC 1208.2], [CRC R807].
- 3. LIGHTING AND CONVENIENCE OUTLET: A PERMANENT 1 20-VOLT RECEPTACLE OUTLET AND LIGHTING FIXTURE SHALL BE INSTALLED NEAR THE APPLAINCE. THE SWITCH CONTROLLING THE FIXTURE SHALL BE LOCATED AT THE ENTRANCE TO THE PASSAGEWAY PER [CMC 304.4.4]. 4. PASSAGEMAY
- SHALL BE UNOBSTRUCTED AND SHALL HAVE SOLID FLOORING NOT LESS THAN 24-IN. WIDE FROM THE ENTRANCE OPENING TO THE APPLIANCE PER [CMC 304.4.2 WORKING PLATFORM:
- NOT LESS THAN 30-IN. X 30-IN. SHALL BE PROVIDED IN FRONT OF THE SERVICE SIDE OF APPLIANCE PER [CMC 304.4.3].
- 6. THE RETURN AIR PLENUM SERVING THE MECHANICAL EQUIPMENT MUST BE FULLY DUCTED FROM THE EQUIPMENT TO THE CONDITIONED SPACE. DROP CEILINGS, WALL CAVITIES AND EQUIPMENT PLATFORMS MAY NOT BE USED AS PLENUMS.

MECHANICAL - WHOLE HOUSE EXHAUST FAN (RESIDENTIAL) 2019 WHOLE HOUSE EXHAUST SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/ASHRAE STANDARD 62.2

PANASONIC INLINE VENTILATION FAN FV-10NLF1 120 CFM: 36.3 WATTS 3.3 CFM/WATT: 1.0 SONES

MECHANICAL - PLUMBING (RESIDENTIAL)

- DUCT DIAMETER (INCHES): 5" WHOLE HOUSE EXHAUST ONLY VENTILATION SYSTEM. THE FAN USED FOR CONTINUOUS VENT. SHALL BE ENERGY STAR COMPLIANT AND MUST HAVE A LOW SOUND RATING MAX. OF 1 SONE. LOCAL INTERMIT. EXHAUST FANS ARE REQ. IN ALL KITCHENS AND BATHS TO REDUCE THE LEVEL OF CONTAMINANTS AND MOISTURE IN THESE SPACES WHEN THEY OCCUR. THESE FANS CAN BE SWITCHED ON AND OFF
- WHEN NEEDED. WHOLE HOUSE FAN SHALL HAVE INSULATED LOUVERS OR COVERS WHICH CLOSE WHEN THE FAN IS OFF. COVERS OR LOUVERS MUST HAVE A MIN. INULATION VALUE OF R4.2 SWITCH LABELING FOR WHOLE HOUSE VENTIL SYS: LABEL TEXT SHOULD BE IN BOLD TYPE, PLACED ON A WHITE BACKGROUND, AND NO SMALLER THAN THE EQUIVALENT OF ARIAL 12 POINT TYPE.
- 3. TO MAINTAIN MINIMUM LEVELS OF OUTSIDE AIR VENTILATION REQUIRED FOR GOOD HEALTH, THE FAN CONTROL SHOULD BE ON AT ALL TIMES WHEN THE BUILDING IS OCCUPIED, UNLESS THERE IS SEVERE OUTDOOR AIR CONTAMINATION
- 4. ATTIC VENTILATION TO BE NOT LESS THAN 1/150 th. OF ATTIC AREA. OPENINGS SHALL BE COVERED W/ CORROSION-RESISTANT METAL MESH W/ OPENINGS OF 1/16" MIN.-1/4" MAX. ROOF VENTS PER CRC SECT. R806.1, R806.2, R806.3. \$ CBC SECT. 1202.2.1, 1202.2.2
- 2019 WATER-CONSERVING PLUMBING FIXTURES AND FITTINGS: NEW AND RETROFIT PLUMBING FIXTURES SHALL COMPLY WITH CURRENT CPC REQUIRMENT'S AND ALL FIXTURES WILL MEET THE FOLLOWING RESTRICTED FLOW REQUIRMENT'S;
- A. WATER CLOSET(S) •WATER CONSUMPTION: THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH WHEN TESTED IN CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH WHEN TESTED IN ACCORDANCE WITH ASME A 1 1 2.1 9.2/CSA B 45.1 [CPC 4 1 1.2] •DUAL FLUSH WATER CLOSETS: DUAL FLUSH WATER CLOSETS SHALL COMPLY WITH ASME A 1 1 2.1 9.1 4. THE EFFECTIVE FLUSH VOLUME FOR DUAL FLUSH WATER CLOSETS SHALL BE DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH. [CPC 4 1 1.2.1] •PERFORMANCE: WATER CLOSETS INSTALLED SHALL MEET OR EXCEED THE MINIMUM PERFORMANCE CRITERIA DEVELOPED FOR CERTIFICATION OF HIGH-EFFICIENCY TOILETS UNDER THE WATERSENSE PROGRAM SPONSORED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY. [CPC 4 1 1.2.3] •WATER CLOSETS: THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK TYPE TOILETS. [CPC 411.2.4] [CALGREEN 4.303.1.1]

- D. SHOWER CALGREEN).[CPC 408.2] 4.303.1.3.1
- SHOCK PROTECTION.
- * PER [CPC 408.6].
- UNBURIED OR BURIED, LISTED BELOW SHALL BE INSULATED * PER TABLE 102.3-A:
- D. PIPING BURIED BELOW GRADE.

- •PER [CPC 608.5] MATERHEATER * PER [CPC 507.2].

ELECTRICAL GENERAL (RESIDENTIAL) 2019 INTERIOR RESIDENTIAL LIGHTING IS TO BE HIGH EFFICACY PER TABLE 150.0-A 2019 CALIFORNIA ENERGY CODE TABLE 150.0 AND THE FOLLOWING NOTES: A. THE FOLLOWING LIGHTING IS HIGH EFFICACY:

- •PIN-BASED LINEAR FLUORESCENT USING ELECTRONIC BALLAST. •PULSE-START METAL HALIDE LIGHT SOURCES •HIGH PRESSURE SODIUM LIGHT SOURCES. GENERATOR AND INDUCTION LAMP. DECORATIVE LIGHTING.
- SECTION 150(K)1C.
- VACANCY SENSOR. [CEC 150(k) 2 |]. 3. EXCEPT FOR CLOSETS LESS THAN 70 SQ. FT. AND HALLWAYS, ALL LUMINAIRES THAT ARE INSTALLED WITH JA8-CERTIFIED LIGHT SOURCES ARE REQ. TO BE FXCEPTION 1 & 2
- 4. LUMINAIRES IN CLOTHES CLOSETS. TYPES PERMITTED.
- 6. RECEPTACLE OUTLETS
- CEC 210.52(A)(1)

- 8. LAUNDRY BRANCH CIRCUITS.
- 9. BATHROOM CIRCUITING SHALL BE EITHER:
- NON-METALLIC TRIM. PER CEC 4 10.10(D) 1 1. DWELLING UNITS.

- THESE BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR OR FAN SPEED CONTROL [CALIFORNIA ENERGY CODE SECTION 150(k)1(b)].

B. KITCHEN FAUCETS. [HCD 1] THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS . KITCHEN FAUCETS.[HCD T] THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI NOTE: WHERE FAUCETS MEETING THE MAXIMUM FLOW RATE OF 1.8 GPM ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION [CPC 420.2.2] [CALGREEN 4.303.1.4.4]

C. RESIDENTIAL LAVATORY FAUCETS: THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI [CPC 407.2.2][CALGREEN 4.303.1.4.1.]

•WATER CONSUMPTION: SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE MEASURED AT 80 PSI AND MUST COMPLY WITH DIVISION 4.3 OF CALIFORNIA GREEN BUILDING STANDARDS CODE

•SINGLE SHOWERHEAD: SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS [CPC 408.2.1][CALGREEN

•MULTIPLE SHOWERHEADS SERVING ONE SHOWER: WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD. [CPC 408.2.2][CALGREEN 4.303.1.3.2]

NOTE: SHOWERS AND TUBS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE, THERMOSTATIC, OR COMBINATION MIXING VALVE THAT PROVIDE PROTECTION FROM SCALDING AND THERMAL

2. SHOWERS ARE TO HAVE MIN. INTERIOR AREA OF 1024 SQ. IN. AND SHALL BE CAPABLE OF ENCOMPASSING A 30" CIRCLE

3. THE FOLLOWING DOMESTIC HOT WATER SYSTEM PIPING CONDITION, WHETHER

A. ALL PIPING ASSOCIATED WITH RECIRCULATION SYSTEM.

B. THE FIRST 5FT. OF HOT AND COLD WATER PIPES FROM THE STORAGE TANK. C. ALL PIPING WITH A NOMINAL DIAMETER OF 3/4" OR LARGER

E. PIPING FROM THE HEATING SOURCE TO THE STORAGE TANK.

F. ALL HOT WATER PIPING FROM THE HEATING SOURCE TO KITCHEN FIXTURES. 4. GAS PIPING SHALL NOT BE INSTALLED IN OR ON THE GROUND UNDER ANY BLDG. OR STRUCTURE. VERIFY WITH CLIENT NEED FOR FUTURE GAS LINES TO EXTERIOR BARBEQUE. FUTURE GAS LINES NOT A PART OF THIS PERMIT.

5. HOSE BIBS AND LAWN SPRINKLER SYSTEMS SHALL BE FITTED WITH APPROVED, NON-REMOVABLE BACK-FLOW PREVENTION DEVICE(S). 6. WATER PRESSURE REGULATOR OF 60 PSI SHALL BE PROVIDED.

7. PROVIDE SHUT OFF VALVE ON GAS AND ALL COLD WATER LINES TO BUILDING. 8. WATER HEATER TO BE PROVIDED W/ TEMPERATURE & PRESSURE RELIEF VALVES. A DRAIN THAT EXTENDS FROM THE VALVES TO THE OUTSIDE TO BE PROVIDED. PROVIDE SEISMIC STRAPPING OR ANCHORAGE RESISTANT OVERTURNING OF

•PIN-BASED COMPACT FLUORESCENT LIGHT SOURCES

•LUMINAIRES WITH HARDWIRED HIGH FREQUENCY

LED LIGHT SOURCES INSTALLED OUTDOORS •INSEPARABLE SSL LUMINAIRES CONTAINING COLORED LIGHT SOURCES THAT ARE INSTALLED TO PROVIDE

B. THE FOLLOWING LAMPS AND LIGHT SOURCES ARE HIGH EFFICACY IF THEY ARE CERTIFIED TO THE COMMISSION AS HIGH EFFICANCY LIGHT SOURCES IN ACCORDANCE WITH REFERENCE JOINT APPENDIX JA-8 AND MARKED AS REQUIRED BY JAB. THESE FIXTURES INCLUDE:

•ALL LIGHT SOURCES INSTALLED IN CEILING RECESSED DOWNLIGHT LUMINAIRES. NOTE THAT CEILING RECESSED DOWNLIGHT LUMINAIRES SHALL NOT HAVE SCREW BASES REGARDLESS OF LAMP TYPE AS DESCRIBED IN •ANY LIGHT SOURCE NOT OTHERWISE LISTED IN THIS TABLE.

2. AT LEAST ONE LUMINAIRE IN EACH BATHROOM, GARAGE, LAUNDRY ROOM, AND UTILITY ROOM SHALL BE CONTROLLED BY A MANUAL ON/AUTOMATIC OFF

CONTROLLED BY EITHER A DIMMER OR VACANCY SENSOR. CEC 150(K)J

A. LISTED LUMINAIRES OF THE FOLLOWING TYPES SHALL BE PERMITTED TO BE LISTED LUMINAIRES OF THE FOLLOWING TIPES SHALL BE FERMITTED TO BE INSTALLED IN A CLOSET;
SURFACE-MOUNTED OR RECESSED INCANDESCENT OR LED LUMINAIRE WITH COMPLETELY ENCLOSED LIGHT SOURCES.
SURFACE-MOUNTED OR RECESSED FLUORESCENT LUMINAIRE.
SURFACE-MOUNTED FLUORESCENT OR LED LUMINAIRES IDENTIFIED AS SUITABLE FOR INSTALLATION WITHIN THE CLOSET STORAGE SPACE. PER CEC 4 10.16(A) LOCATION. THE MINIMUM CLEARANCE BETWEEN LUMINAIRES INSTALLATION IN CLEARANCE BETWEEN

LUMINAIRES INSTALLED IN CLOTHES CLOSETS AND NEAREST POINT OF A CLOSET STORAGE SPACE SHALL BE AS FOLLOWS: • 12 IN. FOR SURFACE-MOUNTED INCANDESCENT OR LED LUMINAIRES WITH A COMPLETELY ENCLOSED LIGHT SOURCE INSTALLED ON THE WALL

ABOVE THE DOOR OR ON THE CEILING. • 6 IN. FOR SURFACE-MOUNTED FLUORESCENT LUMINAIRES INSTALLED ON THE WALL ABOVE THE DOOR OR ON THE CEILING. 6"FOR RECESSED INCAND. OR LED LUMINAIRES WITH A COMPLETELY ENCLOSED LIGHT SOURCE INSTALLED IN THE WALL OR THE CEILING.
6"FOR RECESS. FLUOR. LUMINAIRES INSTALL. IN THE WALL OR THE CEILING.
SURFACE-MOUNTED FLUORESCENT OR LED LUMINAIRES SHALL BE PERMITTED TO BE INSTALLED WITHIN THE CLOSET STORAGE SPACE WIERE DENTIFIED FOR THIS AND THE VIEW OF THE CEIL OF 16(C) WHERE IDENTIFIED FOR THIS USE. PER CEC 410.16(C)

5. USE IC RATED RECESSED LIGHT FIXTURES WHERE FIXTURES ARE IN CONTACT WITH INSULATION. AS PER CEC 4 10.166(2)

A. RECEPTACLE OUTLETS SHALL BE SPACED NOT MORE THAN 12 FEET APART AND A MAXIMUM OF 6 FEET FROM THE ENDS OF WALLS OR OPENINGS. PER B. RECEPTACLE OUTLETS ARE ALSO REQUIRED IN WALLS 2 FEET OR GREATER PER CEC, ARTICLE 210.52(A) HALLWAYS OF 10 FEET OR MORE IN LENGTH SHALL HAVE AT LEAST ONE RECEPTACLE OUTLET PER [CEC, ARTICLE 210-52(h)].

7. A MINIMUM OF TWO 20-AMPERE SMALL APPLIANCE BRANCH CIRCUIT SHALL BE PROVIDED FOR ALL RECEPTACLE OUTLETS IN THE KITCHEN, DINING ROOM, PANTRY OR OTHER SIMILAR AREAS PER CEC 210.11(C)(1

IN ADDITION TO THE NUMBER OF BRANCH CIRCUITS REQUIRED BY OTHER PARTS OF THIS SECTION, AT LEAST ONE ADDITIONAL 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET(S) REQUIRED BY [CEC 210.52(F)]. THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS. PER [CEC 210.11(C) (2)].

A. 120 VOLT 20 AMPERE CIRCUIT DEDICATED TO EACH BATHROOM OR B. AT LEAST ONE 120 VOLT 20 AMPERE CIRCUIT SUPPLYING ONLY BATHROOM RECEPTACLE OUTLETS. PER CEC 210.11(C) (3)

10. LIGHTING FIXTURES WITHIN 3 FEET OF BATHTUB AND LESS THAN 8 FEET ABOVE RIM OF TUB SHALL BE RECESSED, WATER PROOF, G.F.I.C. PROTECTED AND HAVE

ALL 120 Y. SINGLE PHASE 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING ALL 120 V, SINGLE PHASE, 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNITS FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A "LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. AS PER [CEC 210.12(A)(1) THROUGH (6)].

12. WHERE BRANCH-CIRCUIT WIRING IS MODIFIED, REPLACED OR EXTENDED IN AREA SPECIFIED IN CEC 2 10.12(A), THE BRANCH CIRCUITS SHALL BE PROTECTED BY EITHER A LISTED COMBINATION-TYPE AFCI LOCATED AT THE ORIGIN OF THE BRANCH CIRCUIT OR A LISTED OUTLET BRANCH-CIRCUIT TYPE AFCI LOCATED AT THE FIRST RECEPTACLE OF THE EXISTING BRANCH CIRCUIT. PER CEC 210.12(D) 13. ALL 125-VOLT, 15 AND 20 AMPERE RECEPTACLES IN A DWELLING UNIT SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. [EXCEPTIONS: (1) RECEPT. MORE THAN 5'-6" ABOVE THE FLOOR, (2) RECEPT. PART OF A LUMINAIRE OR APPLIANCE, (3) A SINGLE RECEPT. OR A DUPLEX RECEPT. FOR TWO APPL. THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD AND PLUG CONNECTED AS PER CEC 400.7 AND (4) NON-GROUND RECEPT USED DO DEDICATED (1) NON-GROUND RECEPT. USED FOR REPLACEMENTS AS PERMITTED IN [CEC 406.4 (D)(2)(a)]. 14. THE NUMBER OF ELECTRICAL BOXES LOCATED MORE THAN 5 FEET ABOVE FINISHED FLOOR THAT DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL NOT EXCEED THE NUMBER OF BEDROOMS.

15. CONTRACTOR TO PROVIDE SLOPED CEILING CANS IN AREAS WITH VAULTED CEILINGS AS SHOWN ON THIS PLAN. A WALK THRU W/ OWNER TO BE PROVIDED TO VERIFY THIS PLAN PRIOR TO START OF WORK OR ORDER OF MATERIALS

- 16. CONTRACTOR TO PROVIDE A WALK THRU TO VERIFY THIS PLAN WITH OWNER PRIOR TO START OF WORK OR ORDER OF MATERIALS. CONTRACTOR TO PROVIDE A WALK THRU TO VERIFY WITH OWNER LOCATION OF DIMMER SWITCHING, FIXTURE TYPE AND LOCATIONS AND OUTLET LOCATIONS
- 17. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS FOR CABLE TV/ RADIO / INSIDE LINE WIRING, SECURITY SYSTEMS, COMPUTER NETWORKING, SOUND SYSTEMS ETC... FOR INSIDE AND OUTSIDE RESIDENCE.
- 18. PER 2019 CALIFORNIA GREEN BUILDING STANDARDS , CHAPTER 4, PROVIDE FOR AN ELECTRIC VEHICLE [EV] CHARGING SPACE. [EV] STATION SIZE AND ELECTRICAL SERVICE REQUIRMENTS PER SHEET GB-1 [2019 CGBS].

ELECTRIC VEHICLE READINESS: (RESIDENTIAL) 1. ELECTRIC VEHICLE (EV) CHARGING FOR NEW CONSTRUCTION

A. NEW CONSTRUCTION SHALL COMPLY WITH SECTIONS 4.106.4.1,4.106.4.2 AND 4.106.4.3 TO FACILITATE FUTURE INSTALLATION AND USE OF EV CHARGERS. ELECTRIC VEHICLES SUPPLY EQUIPMENT (EVS) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, ARTICLE 625

[EXCEPTION 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.

A. WHERE THERE IS NO COMMERCIAL POWER SUPPLY B. WHERE THERE IS EVIDENCE SUBSTANTIATING THAT MEETING THE REQUIREMENTS WILL ALTER TYPE LOCAL UTILITY INFRASTRUCTURE DESIGN REQUIREMENTS ON THE UTILITY SIDE OF THE METER SO AS TO INCREASE THE UTILITY SIDE COST TO THE HOMEOWNER OR DEVELOPER BY MORE

THAN \$400.00 PER UNIT. 2. NEW ONE AND TWO-FAMILY DWELLINGS AND TOWNHOUSES WITH ATTACHED PRIVATE GARAGES

FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT.

- B. THE RACEWAY SHALL NOT BE LESS THAN THE TRADE SIZE 1
- (NOMINAL 1-INCH INSIDE DIAMETER). C. THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL & SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER.
- D. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES.
- . THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT
- OVERCURRENT PROTECTIVE DEVICE 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".

EXTERIOR ELECTRICAL: (RESIDENTIAL)

ENTRY GATE LIGHT FIXTURES :

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A. LIGHT FIXTURES TO BE LOW WATTAGE LOW INTENSITY & SHEILDED FIXTURES. B. FIXTURE ACTIVATED WITH MOTION DETECTOR AND TIMER.

- 2. GENERALLY.
- OUTDOOR LIGHTING IN RESIDENTIAL ZONES AND OUTDOOR LIGHTING ON REAL PROPERTIES ADJACENT TO RESIDENTIAL ZONES SHALL BE DESIGNED, INSTALLED, AND OPERATED SO THAT IT IS COMPATIBLE WITH THE AMBIENT LIGHTING OF THE NEIGHBORHOOD IN WHICH IT IS LOCATED. SUCH LIGHTING SHALL BE DESIGNED, INSTALLED, AND OPERATED TO CONTROL GLARE, PREVENT LIGHT TRESPASS ONTO ADJACENT AREAS MINIMIZE DIRECT UPWARD LIGHT EMISSION, PROMOTE EFFECTIVE SECURITY AVOID INTERFERENCE WITH SAFE OPERATION OF MOTOR VEHICLES. THE MINIMUM INTENSITY NEEDED FOR THE INTENDED PURPOSE SHALL BE USED.
- 3. CERTAIN LIGHTING EXEMPTED. A. THE USE OF THE FOLLOWING LIGHTING FIXTURES AND LIGHT SOURCES ARE EXEMPTED FROM REGULATION PURSUANT TO THIS CHAPTER:
 - LOW VOLTAGE FIXTURES. LOW VOLTAGE LIGHTING EXCEPT FOR THOSE FIXTURES REGULATED PURSUANT TO SUBSECTION 22.75.030A(6) ABOVE.
 - CONTROLLED FIXTURES. A LIGHTING FIXTURE CONTROLLED BY A MOTION DETECTOR IN A RESIDENTIAL ZONE PROVIDED THE MOTION DETECTOR IS PREDOMINANTLY IN THE OFF MODE AND IT IS INSTALLED TO MINIMIZE NUISANCE LIGHTING.
- 4. OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A SINGLE FAMILY DWELLING OR OTHER BUILDINGS IN THE SAME LOT SHALL BE HIGH EFFICACY OR MUST BE CONTROLLED BY AN ON/OFF SWITCH THAT DOES NOT OVERRIDE TO 'ON'. ALSO, LIGHTING MUST BE ONE OF THE FOLLOWING METHODS LISTED BELOW
 - A. CONTROLLED BY PHOTOCELL AND MOTION SENSOR. CONTROLS THAT OVERRIDE TO 'ON' SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY REACTIVATES THE MOTION SENSOR WITHIN (6) SIX HOURS, OR;
 - B. CONTROLLED BY ANY OF THE FOLLOWING:
 - PHOTOCELLAND AUTOMATIC TIME SWITCH CONTROL. CONTROLS THAT OVERRIDE TO 'ON' SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURN THE PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS, OR;
 - ASTRONOMICAL TIME CLOCK. CONTROLS THAT OVERRIDE TO 'ON' SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURNS THE ASTRONOMICAL CLOCK TO ITS NORMAL OPERATION WITHIN 6 HOURS AND WHICH IS PROGRAMMED TO AUTOMATICALLY TURN THE OUTDOOR LIGHTING OFF DURING THE DAYLIGHT HOURS, OR;
 - ENERGY MANAGEMENT CONTROL SYSTEM WHICH MEETS ALL OF THE FOLLOWING REQUIREMENTS. AT A MINIMUM;
 - A. PROVIDES THE FUNCTIONALITY OF AN ASTRONOMICAL TIME CLOCK IN ACCORDANCE W/ [SECTION 130.4] OF THE STANDARDS.
 - b. MEET THE REQUIREMENTS FOR AN EMCS IN [SECTION 130.5] OF THE STANDARDS.
 - C. DOES NOT HAVE AN OVERRIDE OR BYPASS SWITCH THAT ALLOWS THE LUMINAIRE TO BE ALWAYS ON.
- d. AND, IS PROGRAMMED TO AUTOMATICALLY TURN THE OUTDOOR LIGHTING OFF DURING THE DAYLIGHT HOURS. 5. GENERAL PROHIBITIONS.
- THE USE OF THE FOLLOWING LIGHTING FIXTURES SHALL BE PROHIBITED IN ALL ZONES OF THE CITY:
- A. MERCURY VAPOR AND LOW-PRESSURE SODIUM FIXTURES AND LAMPS EXCEPT WHEN USED FOR LANDSCAPE LIGHTING ACCENT PURPOSES.
- B. SEARCHLIGHTS, LASER LIGHTS, OR SIMILAR HIGH INTENSITY OUTDOOR LIGHTS EXCEPT PURSUANT TO A SPECIAL LIGHTING EVENT PERMIT GRANTED PURSUANT TO SUBSECTION C HEREOF
- C. LIGHTING FIXTURES MOUNTED IN SUCH A WAY AS TO ILLUMINATE A ROOF
- D. LIGHTING FIXURES MOUNTED TO AIM LIGHT ONLY TOWARDS A PROPERTY
- E. LIGHTING FIXTURES MOUNTED IN A WAY THAT IS DISTRACTING TO MOTORISTS OR IN A WAY THAT INTERFERES WITH THE SAFE OPERATION
- OF A MOTOR VEHICLE, AS MAY BE DETERMINED BY THE CITY ENGINEER. F. LIGHTING THAT IS BLINKING, MOVING, OR WHICH CHANGES IN INTENSITY EXCEPT SMALL TEMPORARY LIGHTING FIXTURES INSTALLED AND USED ONLY DURING THE PERIOD BETWEEN THE LAST WEEK OF NOVEMBER AND FIRST WEEK OF JANUARY OF THE FOLLOWING YEAR.
- . TO ELIMINATE THE NUISANCE LIGHTING, SUCH STEPS MAY INCLUDE, BUT AND NOT LIMITED TO, EACH OF THE FOLLOWING (OR ANY COMBINATION THEREOF) IN THE PRIORITY LISTED HEREIN:
- A. THE USE AND APPLICATION OF APPROPRIATE LIGHTING EQUIPMENT, B. FIXTURE LOCATIONS,
- C. SHIELDING, LIGHT SOURCES AND ILLUMINATION INTENSITIES.
- D. THROUGH THE ELIMINATION OF UNNECESSARY LIGHTING . AUTOMATIC GARAGE DOOR OPENERS SHALL BE LISTED IN ACCORDANCE WITH UL 325 MEET MEET REQUIREMENTS OF HEALTH & SAFETY CODE [SECTIONS 19890 AND 19891].
- 8. ELECTRICIAN TO STUB OUT FOR LANDSCAPE LIGHTING.
- 9. PROVIDE POWER & PLUMBING FOR FUTURE SITE FOUNTAINS / WATER FEATURES (WHERE APPLICABLE).

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CLASSIFICATION OF HIGH-EFFICACY LIGHT SOURCES Light sources shall comply with one of the columns below:

A DESIGNATED SOLAR ZONE SHALL BE PROVIDED. THE SOLAR ZONE SHALL COMPLY WITH ACESS, PATHWAY, SMOKE VENTILATION AND SPICTION AS REQUIRED BY THE CALIFORNIA FIRE CODE AND/OR LOCAL

- THE SOLAR ZONE SHALL BE LOCATED ON THE ROOF OR OVERHANG OF THE BUILDING AND HAVE A TOTAL AREA NOT LESS THAN 250 SQ. FT. SHOW PROPOSED SOLAR ZONES ON THE ROOF PLAN.
- IF THE SOLAR ZONE IS MADE UP OF MULTIPLE AREAS, EACH SOLAR ZONE AREA SHALL NOT BE LESS THAN 80 SQ. FT. OR LESS THAN 160 SQ. FT. FOR BUILDINGS WITH A ROOF AREA EXCEEDING 10,000 SQ. FT. NO DIMENSION OF ANY SOLAR AREA SHALL BE LESS THAN 5 FEET
- ALL SECTIONS OF THE SOLAR ZONE LOCATED ON STEEP-SLOPED ROOFS SHALL BE ORIENTED BETWEEN 90° AND 300° OF TRUE NORTH.
- NO OBSTRUCTIONS SUCH AS CHIMNEYS, ARCHITECTURAL FEATURES OR EQUIPMENT SHALL BE LOCATED IN THE SOLAR ZONE(S).
- OBSTRUCTIONS SHALL BE LOCATED IN ACCORDANCE WITH [CENC SECTION 1 10.10(b)3B].
- PLANS SHALL INDICATE A PATHWAY FOR ROUTING OF PLUMBING FROM THE SOLAR ZONE TO THE WATER HEATING SYSTEM.
- THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE FOR THE INSTALLATION OF DOUBLE POLE CIRCUIT BREAKER. THE RESERVED SPACE SHALL BE MARKED as; "FOR FUTURE SOLAR ELECTRIC".
- PLANS SHALL INDICATE A LOCATION FOR INVERTERS AND METERING EQUIPMENT, AND A PATHAWAY FOR ROUTING OF CONDUIT FROM THE SOLAR ZONE TO THE MAIN ELECTRICAL SERVICE PANEL. ELECTRICAL CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE
- ONE CONDUIT RUN SHALL ORIGINATE AT A READILY ACCESSIBLE ATTIC LOCATION AND TERMINATE AT A MINIMUM 4" SQUARE APPROVED ELEC. JUNCTION BOX LOCATED WITHIN 72" HORIZONTALLY AND 12" VERTICALLY OF A MAIN ELECTRICAL PANEL. A SECOND CONDUIT RUN SHALL ORIGINATE AT THE ELECTRICAL JUNCTION BOX AND TERMINATE AT THE MAIN ELECTRICAL PANEL.
- II. THE CONDUIT SHALL BE A MINIMUM 1" DIAMETER, LISTED ELECTRIC METALLIC RACEWAY.
- III. THE ELECTRICAL JUNCTION BOX AND THE SEGMENT OF THE CONDUIT RUN IN THE ATTIC SHALL BE PERMANENTLY AND VISIBLY MARKED AS; "FOR FUTURE SOLAR PHOTOVOLTAIC."

SMOKE DETECTORS: (RESIDENTIAL)

- 1. REMODEL CONSTRUCTION HAVING A VALUE IN EXCESS OF \$1,000 REQUIRE SMOKE DETECTORS IN EACH EXISTING SLEEPING ROOM AND IN THE HALLWAY AREA SERVING EACH SLEEPING AREA. *BATTERY-OPERATED DETECTORS ARE ACCEPTABLE FOR EXISTING CONSTRUCTION PER [CRC SECT. R3 1 4.8.2].
- SMOKE DETECTORS FOR NEW CONSTRUCTION REQUIRED AT THE FOLLOWING LOCATIONS PER [CBC 907.2.10.2 & CRC R3 14.3].;
- A. ON THE CEILING OR WALL OF THE AREA IMMEDIATELY OUTSIDE EACH SEPARATE SLEEPING AREA; B. IN EACH ROOM USED FOR SLEEPING PURPOSES;
- C. AT EACH STORY WITHIN THE DWELLING UNIT.
- 3. IN NEW CONSTRUCTION, REQUIRED SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING (110 V.) WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACKUP.
- SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION. SEE ELECTRIC PLAN FOR LOCATIONS PER [CBC SECT. 907.2.10.6 & CRC SECT. R3 14.6]
- 4. WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT OR SLEEPING UNIT IN GROUP R OCCUPANCIES, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED * PER [CBC SECT. 907.2.10.5 & CRC SECT. R3 14.4].
- SMOKE ALARMS SHALL COMPLY WITH SPECIFIC LOCATIONS REQUIREMENTS PER NFPA 72 SECTION 29.8.3.4 PER CBC SECT. 907.2.11.8, CRC 314.3.3 •SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN A 3-FOOT HORIZONTAL DISTANCE FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BY OTHER SECTIONS OF THE CODE PER CBC SECT. 907.2.11.8(5), 314.3.3(5)
- •SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN A 36 IN. HORIZONTAL PATH FROM THE SUPPLY REGISTER OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS PER CBC SECT. 907.2.11.8(6), 314.3.3(6) AND PER MANUFACTURE INSTRUCTIONS.
- •SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN A 36 In HORIZONTAL PATH FROM THE TIP OF THE BLADE OF A CEILING-SUSPENDED (PADDLE) FAN PER CBC SECT. 907.2.11.8(7), 314.3.3(7)
- CARBON MONOXIDE ALARMS: (RESIDENTIAL) 2019 1. CARBON MONOXIDE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 2034. COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 2034 AND UL 217 PER CRC R315.1.1.
- EXISTING BUILDINGS AND NEW CONSTRUCTION: CARBON MONOXIDE ALARM SHALL BE PROVIDED IN DWELLING UNITS WHERE EITHER OR BOTH OF THE FOLLOWING CONDITIONS EXIST.
- a. THE DWELLING UNIT CONTAINS A FUEL-FIRED APPLIANCE OR FIREPLACE. b. THE DWELLING UNIT HAS AN ATTACHED GARAGE WITH AN OPENING THAT COMMUNICATES WITH THE DWELLING UNIT. PER CRC SECT. R3 15.2.1
- 3. ALTERATIONS, REPAIRS AND ADDITIONS. WHERE AN ADDITION IS MADE TO AN EXISTING DWELLING, OR FUEL-BURNING HEATER, APPLIANCE, OR FIREPLACE IS ADDED TO AN EXISTING DWELLING, NOT PREVIOUSLY REQUIRED TO BE PROVIDED WITH CARBON MONOXIDE ALARMS, NEW CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN ACCORDANCE WITH CRC SECTION R315.
- 4. IN NEW CONSTRUCTION REQUIRED CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND, WHERE PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. EXCEPTIONS:
- a. CARBON MONOXIDE ALARM SHALL BE PERMITTED TO BE BATTERY OPERATED WHERE INSTALLED IN BUILDINGS WITHOUT COMMERCIAL POWER.
- b. CARBON MONOXIDE ALARMS INSTALLED IN ACCORDANCE WITH SECTION R315.2.2 (REFER TO NOTE #8 ABOVE) SHALL BE PERMITTED TO BE BATTERY POWERED. PER CRC SECT. R315.6 5. WHERE MORE THAN ONE CARBON MONOXIDE ALARM IS REQUIRED TO BE
- INSTALLED WITHIN THE DWELLING UNIT OR WITHIN SLEEPING UNIT IN GROUP R OCCUPANCIES, THE ALARMS SHALL BE INTERCONNECTED IN A MANNER THAT ACTIVATION OF ONE ALARM SHALL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. EXCEPTION:
- INTERCONNECTION IS NOT REQUIRED IN EXISTING BUILDINGS BUILT PRIOR TO JANUARY 1, 2011, UNDER ANY OF THE FOLLOWING CONDITIONS: a. PHYSICAL INTERCONNECTION IS NOT REQUIRED WHERE LISTED WIRELESS ALARMS ARE INSTALLED AND ALL ALARMS SOUND UPON ACTIVATION OF
- ONE ALARM. b. NO CONSTRUCTION IS TAKING PLACE.
- C. REPAIRS OR ALTERATIONS DO NOT RESULT IN THE REMOVAL OF INTERIOR WALL AND CEILING FINISHES EXPOSING THE STRUCTURE IN AREAS/SPACES WHERE CARBON MONOXIDE ALARMS ARE REQUIRED.
- d. REPAIRS OR ALTERATIONS ARE LIMITED TO THE EXTERIOR SURFACES OF DWELLINGS, SUCH AS THE REPLACEMENT OF ROOFING OR SIDING, OR THE ADDITION OR REPLACEMENT OF WINDOWS OR DOORS, OR THE ADDITION OF A PORCH OR DECK.
- e. WORK IS LIMITED TO THE INSTALLATION, ALTERATION OR REPAIR OF PLUMBING, MECHANICAL, OR ELECTRICAL SYSTEMS, WHICH DO NOT RESULT IN THE REMOVAL OF INTERIOR WALL OR CEILING FINISHES EXPOSING THE STRUCTURE IN AREAS/SPACES WHERE CARBON MONOXIDE ALARMS ARE REQUIRED. PER CRC SECT. R3 15.5

6. CARBON MONOXIDE ALARMS IN DWELLING UNITS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS IN THE FOLLOWING LOCATIONS

- a. OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM.
- b. ON EVERY OCCUPIABLE LEVEL OF A DWELLING UNIT, INCLUDING BASEMENTS.
- C. WHERE A FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED WITHIN THE BEDROOM PER CRC SECT. R3 15.3

7. MULTIPLE-PURPOSE ALARMS: COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF CARBON MONOXIDE ALARMS COMBINATION CARBON MONOXIDE/SMOKE ALARMS SHALL COMPLY WITH CRC SECT. R3 15 AND ALL REQUIREMENTS FOR LISTING AND APPROVAL BY THE OFFICE OF THE STATE FIRE MARSHAL FOR SMOKE ALARMS. PER CRC SECT

ight sources in this column, other than those in ceilin. recessed downlight luminaires, are classified high efficacy and are not required to comply with Reference Joint Appendix JA8

- Pin-based linear fluorescent or compact fluorescent light sources using electronic ballast. Pulse-start metal halide light sources.
- High pressure sodium light sources.
 Luminaires with hardwired high frequency generator and induction lamp.
 LED light sources installed outdoors. 5. Inseparable SSL luminaires containing colored light sources that are installed to provide decorative lighting.

Light sources in this column are only considered to the be high efficacy if they are certified to the commission as High Efficacy Light Sources in accordance with Reference Joint Appendix JA8 and marked as required by JA8

8. All light sources installed in ceiling recessed downlight luminaires. Note that ceiling recessed downlight luminaires shall not have screw bases regardless of lamp type as described in Section 150(k)1C.
9. Any light source not otherwise listed in this table.



PACIFIC ARCHITECTS

1117 COAST VILLAGE RD. MONTECITO, CA 93108 8 0 5 . 5 6 5 . 3 6 4 0



 $\sim\sim\sim\sim\sim$ SEDARCH AM S. MY C-20857 09-30-25 RENEWAL DATE OF CALIFO William Shalf ALL IDEAS, DESIGNS AND PLANS INDICATED OR REPRESENTED BY THESE DRAWINGS ARE OWNED BY AND ARE THE PROPERTY OF PACIFIC ARCHITECTS AND WERE CREATED AND DEVELOPED FOR USE IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, OF PLANS SHALL BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF PACIFIC ARCHITECTS. Description CARPORT 8/24/23 CHANGE PLAN CK PLAN CHK 39/239/24 PLAN CK 5/29/24 Job Number: Date: 07.11.23

<page-header></page-header>	ITE: PROJECT:	TYPE:	DATE: PROJECT:	TYPE:
<complex-block></complex-block>	TALOG NUMBER LOGIC:			
<image/>		CATALOG NUMBER LOGIC		
<image/>		Example: CK - LED - TR - x98 - SP - BZW - 9 - 11 - A - INC - 120		
<image/>		MATERIAL	\frown	/\
<complex-block>Image: bit with the sector of the sector</complex-block>		Aluminum		
		SERIES		
<complex-block></complex-block>		CK - Catskill		
<text></text>	•	SOURCE	10 1/2" 8"	
		LED - Chip on Board Technology	(266mm) (204mm)	(178mm)
		HOUSING		
		TR - Integral Driver		
		LED TYPE		→ 3" Dia. → 5 Dia. → (127mm)
		x98 - 13W/2700K/80CRI x101 - 13W/2700K/90CRI		
 xdo: xdo: xdo: xdo: xdo: xdo: xdo: xdo:		x99 - 13W/3000K/80CRI x102 - 13W/3000K/90CRI	(John)	
		x103 - 13W/3500K/80CRI x104 - 13W/3500K/90CRI	"A/D" CAP "B/E" CAP	"C" CAP
Amountain the Definition of the State S		x100 - 13W/4000K/80CRI x121 - 13W/4000K/90CRI		×/
Normality water		x122 - 21W/2700K/80CRI x126 - 21W/2700K/90CRI	4" (102mm) - (102mm)	← 4" ← (102mm) ←
	commodates up to 2 lens/Shielding media.	X123 - 21W/3000K/80CRI X127 - 21W/3000K/90CRI S		
NOTE Shift State Mark AND	0V Only.	X124 - 21W/3500K/80CRI X128 - 21W/3500K/90CRI S	(10mm) (10mm)	
		SP Spat (20°) EL Eland (40°) W/EL Wide Eland (60°)		
		EINISH (See page 2 for full-color swatches)		
		Standard Einishes (BZP BZW BLP BLW WHP WHW SAP VEB)		5 3/4" 4" Dia/ 1/16"
As available in RAL Finishes LENS TYPE 0: Solar (Standard) 1: Solar Cours		Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR) *	9 1/4" (1/1mm) (234mm)	
LISS TYPE 9 Clard Standardi 9 Clard Standardi 10 Pool Forces 10 Pool Forces MELDING 11 Honeycomb Beffle A - Str B		Also available in RAL Finishes		
9 - Clear (Standard) 12 - Sor Frozow 13 - Sor Fue A - 47' 9 - 9'' 9 - 49'' 9 - 9'' 0 - 49'' 9 - 9'' 0 - 49'' 0 - 100'' 0 - 100'' 0 - 100'' 0 - 100'' 0 - 100'' 10 - 100'' 120 - 120 VAC		LENS TYPE*		
12 - Soft Focus 13 - Rectilinear SHELDING* 11 - Honeycomb Bdfle CAF Strub A - 63* B - 0* C - Flush C - Flush D - 65* Less Weephole (Interior use only) E - 90* Less Weephole (Interior use only) E - 90* Less Weephole (Interior use only) MC - Dimming Driver (For use with Electronic Low Voltage Dimmer)** IN2 - Dimming Driver (For use with Electronic Low Voltage Dimmer)** IN2 - Dizming Driver (For use with Electronic Low Voltage Dimmer)** IN2 - Dizming Driver (For use with Electronic Low Voltage Dimmer)** IN2 - Dizming Driver (For use with Electronic Low Voltage Dimmer)** IN2 - Dizming Driver (For use with Electronic Low Voltage Dimmer)** IN2 - Dizming Driver (For use with Electronic Low Voltage Dimmer)** IN2 - Dizming Driver (For use with Electronic Low Voltage Dimmer)** IN2 - Dizvida (Employment) IN2 - Dizvida (Employment)<		9 - Clear (Standard)		
SHIELDING* 1: hongcomb Baffie 0: As* Comp Staffie 0: Comm Staffie <t< td=""><td></td><td>12 - Soft Focus 13 - Rectilinear</td><td></td><td></td></t<>		12 - Soft Focus 13 - Rectilinear		
Image: Image		SHIELDING*		
CAP STYLE A - 45° B - 0° C - 54° Less Weephole (Interior use only) D - 45° Less Weephole (Interior use only) E - 90° Loss Weephole (Interior use only) E - 00° Loss Weephole (Interior use with Incandescent Dimmer)** INDO 400 KOR E - 10° Loss Weephole (Interior use with Incandescent Dimmer)** E - 10° Loss Weephole (Interior use with Incandescent Dimmer)** E - 10° Loss Weephole (Inte		11 - Honeycomb Baffle		
A - 45° B - 90° C - Flush D - 5F Uesh Weephole (Interior use only) E - 90° Less Weephole (Interior use only) E - 0° Less Weephole (Interior use with Electronic Low Voltage Dimmer)** INC - Dimming Driver (For use with Electronic Low Voltage Dimmer)** INC - Dimming Driver (For use with Electronic Low Voltage Dimmer)** 100 - 120 VAC E0 - 120 VAC Statise Horizon Statises on our website. ENCK LIGEHTING MADE IN THE USA Statised With Registration Statises on our website. Beck K LIGEHTING MADE IN THE USA		CAP STYLE		
B - 90° C - Flush D - 45° Less Weephole (Interior use only) E - 90° ess Weephole (Interior use only) E - 90° ess Weephole (Interior use only) E - 90° ess Weephole (Interior use only) D - 45° Less Weephole (Interior use only) E - 0° ess Weephole (Interior use with lacandescent Dimmer)** E - 0° ess Weephole (Interior use with lacandescent Dimmer)** E - 0° ess Weephole (Interior use with lacandescent Dimmer)** 10° 120 VAC 20° 120 VAC E - 120 VAC E - K LIGHTING MADE IN THE USA 259.438.5000 INF0@8KLIGHTING.COM Beck KlightTing C MADE IN THE USA 259.438.5000 INF0@8KLIGHTING.COM Beck KLIGHTING Beck KLIGHTING <td></td> <td>A - 45°</td> <td>STANDARD PINISHES</td> <td>PREMIUM FINISHES</td>		A - 45°	STANDARD PINISHES	PREMIUM FINISHES
C - Flush D - 45° Less Weephole (Interior use only) E - 90° Less Weephole (Interior use with Incandescent Dimmer)** INPUT VOLTAGE 20 - 120 VAC B-CK LIGHTING MADE INTHE USA S99.438.5800 INFO@BKLIGHTING.COM BKLIGHTING.COM BKLI		B - 90°		
D - 45° Less Weephole (Interior use only) Granite (CMG) Granite (CMG) </td <td></td> <td>C - Flush</td> <td></td> <td>Cascade Mtn. Bocky Mtn. Sierra Mtn Aleutian Mtn T</td>		C - Flush		Cascade Mtn. Bocky Mtn. Sierra Mtn Aleutian Mtn T
E - 90° Less Weephole (Interior use only) CONTROL ELV - Dimming Driver (For use with lectronic Low Voltage Dimmer)** INC - Dimming Driver (For use with lncandescent Dimmer)** INC - Dimming Driver (For use with lncandescent Dimmer)** INPUT VOLTAGE 120 - 120 VAC Black Wrinkle Bronze Wrinkle Wrinkle Wrinkle (WHW) Click Here to view larger, full-color swatches of all available finishes on our website. B-K LIGHTING MADE IN THE USA S59.438.5800 INFO@BKLIGHTING.COM BKLIGHTING.COM BKLIG		D - 45° Less Weephole (Interior use only)	Satin Black Satin Bronze Satin White Satin Aluminur	m Granite (CMG) Granite (RMG) Granite (SMG) Granite (AMG) (
CONTROL ELV - Dimming Driver (For use with Electronic Low Voltage Dimmer)** INC - Dimming Driver (For use with Incandescent Dimmer)** INC - Dimming Driver (For use with Incandescent Dimmer)** INC - Dimming Driver (For use with Incandescent Dimmer)** INC - Dimming Driver (For use with Incandescent Dimmer)** INPUT VOLTAGE Input voltage I20 - 120 VAC Cream Back LIGHTING MADE IN THE USA 559.438.5800 INFO@BKLIGHTING.COM BKLIGHTING.COM BKLIGH		E - 90° Less Weephole (Interior use only)		Dist Observer Drive (DOE)
 		CONTROL		(BCM) (ICP) (ICP) (BCE) (BCE) (BCE) (BCCP) (BCCP) (BCCP) (ICP) (IC
INC - Dimming Driver (For use with Incandescent Dimmer)** Mojave Desert Antique Brass Brown Patina S INPUT VOLTAGE 120 - 120 VAC 120 - 120 VAC Cracked Ice Mojave Desert Antique Brass Brown Patina S B-K LIGHTING MADE IN THE USA 559.438.5800 INFO@BKLIGHTING.COM BKLIGHTING.COM BKLIGHTIN		ELV - Dimming Driver (For use with Electronic Low Voltage Dimmer)**	Black Wrinkle Bronze Wrinkle White Wrinkle Verde	のおかな
INPUT VOLTAGE 120 - 120 VAC B-KLIGHTING MADE IN THE USA 559.438.5800 INFO@BKLIGHTING.COM B-KLIGHTING		INC - Dimming Driver (For use with Incandescent Dimmer)**	(BLW) (BZW) (WHW) (VER)	Cracked Ice Mojave Desert Antique Brass Brown Patina S (CBI) Sandstone (MDS) Powder (ABP) Powder (BPP) S
Interaction Interaction Weathered Iron (WIR) Interaction Interaction Antique White (AQW) Interaction B-KLIGHTING MADE IN THE USA 559.438.5800 INFO@BKLIGHTING.COM BKLIGHTING.COM BKLIGHTING.C		INPUT VOLTAGE	Click Here to view larger full color swatches of all	
B-KLIGHTING MADE IN THE USA 559.438.5800 INFO@BKLIGHTING.COM BKLIGHTING.COM BKLIGHTIN		120 - 120 VAC	available finishes on our website.	Weathered Iron Clear Anodized Cream Antique White N (WIR) Powder (CAP) (CRM) (AOW) Pr
B-KLIGHTING MADE IN THE USA 559.438.5800 INFO@BKLIGHTING.COM BKLIGHTING.COM BKLIGHTIN				
	B-K LIGHTING	MADE IN THE USA 559.438.5800 INFO@BKLIGHTING.COM BKLIGHTING.COM		ADE IN THE USA 559.438.5800 INFO@BKLIGHTING.COM BKLIGH

"A" - OVERHEAD LIGHT FIXTURE - NIGHT SKY COMPLIANT





	Wall Bracket
	10"
	22.5"
	12" x 26"
	22 lbs.
	5" x 17"
	15"
1:	7.5"
	16"
	Pendant, Pier Mount, Post Mount
	(3) 60 watt bulbs

\$	SINGLE POLE SWITCH [SEE SUFFIX NOTES]
\$vs	SINGLE POLE SWITCH W/ VACANCY SENSOR
AFI () =	1 10 VOLT DUPLEX OUTLET + 1 2" AFF - ARC FAULT INTERRUPTER CIRCUIT
GFI ()−	1 10 VOLT DUPLEX OUTLET - GROUND FAULT INTERRUPTER CIRCUIT
争	1 10 VOLT DUPLEX AFI OUTLET TOP HALF SWITCHED
€	220 VOLT DUPLEX OUTLET
_ ⊕=	QUAD 110 V OUTLET (4 GANG)
•	DUPLEX 110 V AFI FLOOR OUTLET
U T	
\oplus	LED WALL MOUNTED LIGHT FIXTURE
Φ	LED WALL MOUNTED LIGHT FIXTURE [INTERIOR]
\oplus	LED CEILING MOUNTED LIGHT FIXTURE
\mathbf{A}	LED RECESSED OVERHEAD WALL WASHER
R	LED RECESSED DOWN LIGHT
R	LED RECESSED SLOPED DOWN LIGHT
\odot	CEILING PENDANT MOUNT OR CHANDELIER
\oplus	CEILING PENDANT MOUNT LOW VOLTAGE
\bigcirc	RECESSED DOWN LIGHT [SMALL DIA. FIXED]
-	
₩ +	LED SHELF LIGHTING [ROPE]
·	
· · · · · · · · · · · · · · ·	LED COVE LIGHTING: LOW PROFILE EXTRA LONG
	LINKABLE LIGHT FIXTURES
1VV-+	LED TRACK LIGHTING
	2' X 4' LED PANEL FIXTURE
$\stackrel{\circ}{\frown}$	
(SD)	SMOKE DETECTOR (BATTERY)
HSD	SMOKE DETECTOR (HARD WIRE)
CD	CARBON MONOXIDE DETECT./ALARM (BATTERY)
HCD	CARBON MONOXIDE DETECT./ALARM (HARD WIRE)
\triangleleft	WALL TELEPHONE / DATA OUTLET
-CH	DOOR CHIME
- B -	DOOR CHIME PUSH BUTTON
\wedge /	
	CEILING MOUNTED FAN
[M/ LIGH	Y V V IT] [W/OUT LIGHT]
G	GARAGE DOOR OPENER
Ū	JUNCTION BOX
-Ú-I	WALL MOUNTED JUNCTION BOX
Ŷ	
MECH	HANICAL SYMBOLS
M	RECESSED HEAT & FAN
	RECESSED HEAT & FAN
—+ F.G.	
•	
- KEY	
{кеү Нс.w.	COLD WATER HOOK UP
—{ кеч —⋕ с.w. —⋕ н.в.	COLD WATER HOOK UP
(кеү #с.w. #н.в. []=⊐	FUEL GAS KET COLD WATER HOOK UP HOSE BIBB DRYER VENT
(КЕҮ # с.w. # н.в. [[]= ⊐ 	FUEL GAS KET COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT
(КЕҮ ; с.w. ; н.в. []=⊐ 	COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT
_ (кеу _ + с.w. _ + н.в. []= ⊐ _ () _	COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER
_ (кеч _ # с.w. _ # н.в. []:⊐ 	COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUST FAN
_ (кеу _ + с.w. _ + н.в. []: ⊐ - Ţ [] [] [] [] [] [] [] [] [] [] [] [] []	FUEL GAS KET COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUST FAN EXHAUST FAN
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- (KEY - # c.w. - # H.B. □ = 1 - T - T - T - T - T - T - T - T	FUEL GAS RET COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUST FAN EXHAUST FAN CEILING REGISTER FLOOR REGISTER WALL REGISTER
	FUEL GAS KET COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUST FAN EXHAUST FAN CEILING REGISTER FLOOR REGISTER WALL REGISTER
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	FUEL GAS KET COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUST FAN EXHAUST FAN CEILING REGISTER FLOOR REGISTER FLOOR REGISTER CEILING RETURN AIR GRILLE
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	FUEL GAS KET COLD MATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUST FAN EXHAUST FAN CEILING REGISTER FLOOR REGISTER VALL REGISTER CEILING RETURN AIR GRILLE WALL MOUNT RETURN AIR GRILLE SOLATUBE WITH LIGHT
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	PUEL GAS KET COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUGT FAN EXHAUGT FAN CEILING REGISTER FLOOR REGISTER FLOOR REGISTER CEILING RETURN AIR GRILLE SOLATUBE WITH LIGHT RETURN AIR DUCT SA AC DISCONNECT SWITCH
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	COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CELLING MOUNTED SPACE HEATER EXHAUST FAN EXHAUST FAN CELLING REGISTER FLOOR REGISTER FLOOR REGISTER FLOOR REGISTER CELLING RETURN AIR GRILLE CELLING RETURN AIR GRILLE SOLATUBE WITH LIGHT CEL AIR SUPPLY DUCT ON DEMAND WATER HEATER DISCONNECT SWITCH AIR CONDITIONING CONDENSER OLS ABBREVIATIONS EXISTING LOW YOLTAGE FLUORESCENT LED PEDICATED CIRCUIT
	COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CELLING MOUNTED SPACE HEATER EXHAUST FAN EXHAUST FAN CELLING REGISTER FLOOR REGISTER FLOOR REGISTER FLOOR REGISTER FLOOR REGISTER GELING RETURN AIR GRILLE CELLING RETURN AIR GRILLE SOLATUBE WITH LIGHT AIR SUPPLY DUCT ON DEMAND WATER HEATER Image: Complement of the second s
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	PUEL GAS KET COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUST FAN EXHAUST FAN CEILING REGISTER FLOOR REGISTER VIALL REGISTER CEILING RETURN AIR GRILLE VIALL REGISTER CEILING RETURN AIR GRILLE SOLATUBE WITH LIGHT RETURN AIR DUCT AIR SUPPLY DUCT ON DEMAND WATER HEATER DISCONNECT SWITCH HORIZONTAL FURNACE DISCONNECT SWITCH AIR CONDITIONING CONDENSER
	POEL GAS RET COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUST FAN EXHAUST FAN CEILING REGISTER FLOOR REGISTER VALL REGISTER CEILING RETURN AIR GRILLE VALL REGISTER CELLING RETURN AIR GRILLE VALL MOUNT RETURN AIR GRILLE SOLATUBE WITH LIGHT C AIR SUPPLY DUCT ON DEMAND WATER HEATER DISCONNECT SWITCH DISCONNECT SWITCH DISCONNECT SWITCH AIR CONDITIONING CONDENSER COLS ABBREVIATIONS EXISTING LOW YOLTAGE PEDICATED CIRCUIT INTERRUPTER GROUND-FAULT CIRCUIT INTERRUPTER DIMMER SWITCH SHAT LIGHT SWITCH SHAT LIGHT SWITCH HORIZONTER
	PIEL GAS RET COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUST FAN EXHAUST FAN CEILING REGISTER FLOOR REGISTER FLOOR REGISTER CEILING RETURN AIR GRILLE WALL REGISTER CEILING RETURN AIR GRILLE SOLATUBE WITH LIGHT RETURN AIR DUCT AIR SUPPLY DUCT ON DEMAND WATER HEATER DECONNECT SWITCH AIR CONDITIONING CONDENSER OLS ABBREVIATIONS EXISTING LOW VOLTAGE PIEJOCATED CIRCUIT INTERRUPTER GROUND-FAULT CIRCUIT INTERRUPTER GROUND-FAULT CIRCUIT INTERRUPTER GROUND-FAULT CIRCUIT INTERRUPTER DIMMER SWITCH S-MAY LIGHT SWITCH -MAY LIGHT SWITCH -MAY LIGHT SWITCH -MAY LIGHT SWITCH -MAY LIGHT SWITCH
	POEL GAS RET COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUST FAN CEILING REGISTER FLOOR REGISTER FLOOR REGISTER GEILING RETURN AIR GRILLE WALL REGISTER CEILING RETURN AIR GRILLE SOLATUBE WITH LIGHT RETURN AIR DUCT SA AIR SUPPLY DUCT ON DEMAND WATER HEATER MALL REGISTER DISCONNECT SWITCH DISCONNECT SWITCH DISCONNECT SWITCH OLS ABBREVIATIONS EXISTING CONTROLTAC LIRCUIT INTERRUPTER RCOUND-FAULT CIRCUIT INTERRUPTER CONTROLLED BY VACANCY SENSOR
	PUEL GAS RET COLD WATER HOOK UP HOSE BIBB DRYER VENT THERMOSTAT CEILING MOUNTED SPACE HEATER EXHAUST FAN EXHAUST FAN CEILING REGISTER FLOOR REGISTER CEILING RETURN AIR GRILLE VALL REGISTER CEILING RETURN AIR GRILLE SOLATUBE WITH LIGHT RETURN AIR DUCT AIR SUPPLY DUCT ON DEMAND WATER HEATER HORIZONTAL FURNACE DISCONNECT SWITCH DISCONNECT SWITCH AIR CONDITIONING CONDENSER CULS ABBREVIATIONS EXISTING LOWNOLTAGE PUDICATED CIRCUIT INTERRUPTER GROUND-FAULT CIRCUIT INTERRUPTER PUMER SWITCH S-WAY LIGHT SWITCH -MAY LIGHT SWITCH -MAY LIGHT SWITCH -MAY LIGHT SWITCH CONTROLLED BY OCCUPANT SENSOR BUMIDITY SENSOR AND FAN CONTROL SWITCH BORN FAN TIMER SWITCH SOUND FAULT CIRCUIT INTERRUPTER DISCONTROLLED BY OCCUPANT SENSOR BUMIDITY SENSOR AND FAN CONTROL SWITCH BO

MATER PROOF

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(N) CARPORT POWER PLAN & LIGHTING PLAN

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PACIFIC ARCHITECTS

1117 COAST VILLAGE RD. MONTECITO, CA 93108 8 0 5 . 5 6 5 . 3 6 4 0

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California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y N/A RESPON. PARTY	CHAPTER 3 GREEN BUILDING	Y N/A RESPON. PARTY	5.106.2 STORMWATER POLLUTION PRE LAND. Comply with all lawfully enacted sto more of land. or (2) disturb less than one ac	VENTION FOR PROJECTS THAT DISTU rmwater discharge regulations for projects re of land but are part of a larger common	JRB ONE OR MORE ACRES OF s that (1) disturb one acre or plan of development sale	Y N/A RESPON. PARTY	5.106.5.3.3 Use of a ALMS shall be permi specified in Section 5.106.5.3.1 for each	itted for EVCS. EVCS may be r	management s When ALMS is reduced when s	syst inst servi
	 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county on appointed in Section 101.7. 		Note: Projects that (1) disturb one acre or n larger common plan of development or sale applicable National Pollutant Discharge Elin Associated with Construction and Land Dist	nore of land, or (2) disturb less than one a must comply with the post-construction re nination System (NPDES) General permit urbance Activities issued by the State Wa	cre of land but are part of the equirements detailed in the for Stormwater Discharges ter Resources Control Board or		5.106.5.3.4 Accessi When EVSE is instal <i>Code</i> , Chapter 11B, 3	ble EVCS. Illed, accessible Section 11B-22	EVSC shall be 8.3.	an 3 eous
	301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the		The Lanontan Regional Water Quality Control The NPDES permits require postconstruction (pre-project hydrology) with the installation of permits emphasize runoff reduction through through nonstructural controls, such as Low Stormwater volume that cannot be addressed	о воага (тог projects in the Lake Tahoe H in runoff (post-project hydrology) to match of postconstruction stormwater manageme on-site stormwater use, interception, eva Impact Development (LID) practices, and ed using nonstructural practices is require	yarologic Unit). the preconstruction runoff ent measures. The NPDES potranspiration, and infiltration conversation design measures. d to be captured in structural		Note: For EVCS sign Signs and Pavement 5.106.5.4 Electric Vehicle (I Construction shall comply wite equipment (EVSE). Construct spaces shall also comply with	ns, refer to Caltr t Markings) or its EV) charging: r th section 5.106 ction for wareho h Section 5.106	ans Traffic Ope s successor(s). nedium-duty a 5.5.4.1 to facilita uses, grocery s 5.4.1 for future	and l ate fi store
	permitted work. A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used		practices and be approved by the enforcing Refer to the current applicable permits on th www.waterboards.ca.gov/constructionstorm	agency. e State Water Resources Control Board w water. Consideration to the stormwater ru	vebsite at: noff management measures		Exceptions: 1. On a case-by section is no a. Where	y-case basis wh t feasible based e there is no loca	ere the local er upon one of th al utility powers	nforc ne fo supr
	301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:		 5.106.4 BICYCLE PARKING. For buildings specified in Section 103, comply with Section 	within the authority of California Building	evelopment. Standards Commission as ority of the Division of the State		b. Where c. Where additional of Section	e the local utility there is eviden l local utility infra 5 106 5 3 may	is unable to su ce suitable to t astructure desig adversely imp	pply he lo gn re pact
	Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 <i>et seq.</i> for definitions, types of commercial real property affected, effective dates, circumstances pecessitating		Architect pursuant to Section 105, comply w 5.106.4.1 Bicycle parking. [BSC-CC	vith Section 5.106.4.2	5.106.4.1.2; or meet the		When EVSE(s) is/are i <i>Electrical Code</i> and as	installed, it shall follows:	be in accorda	nce
	replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.		5.106.4.1.1 Short-term bicyc	le parking. If the new project or an addition of the parking of the new project or an addition of the permanently anchored bicycle racks with the permanently anchored bicycle racks with the permanent of the perma	ion or alteration is anticipated thin 200 feet of the visitors'		5.106.5.4.1 Electric vehicle cha with planned off-street loading [N] In order to avoid future de	arging readine g spaces. emolition when a	ss requiremer adding EV char	its fo
	301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.		entrance, readily visible to pas added, with a minimum of one Exception: Additions o	sers-by, for 5% of new visitor motorized ve two-bike capacity rack. r alterations which add nine or less visitor	ehicle parking spaces being vehicular parking spaces.		installed at the time of cor specifications shall includ 1. The transforr	nstruction in acc e but are not lim mer, main servio	capacity for the cordance with the nited to, the foll ce equipment a	ne C owir and s
	301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC)		5.106.4.1.2 Long-term bicycle tenant-occupants, provide sect	parking. For new buildings with tenant ure bicycle parking for 5 percent of the ter	spaces that have 10 or more ant-occupant vehicular parking		requirement installation of 2. The construct	in Table 5.106.5 f EVSE. ction documents	5.4.1 to accomr	noda on o
	302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.		5.106.4.1.3 For additions or alt provide secure bicycle parking minimum of one bicycle parking	Dicycle parking facility. erations that add 10 or more tenant-occup for 5 percent of the tenant vehicular parki g facility.	pant vehicular parking spaces, ng spaces being added, with a		offstreet load charging disp raceway(s) o 5.106.5.4.1 3. Raceway(s) o	ling space(s) re pensers, and a p or busway(s) to t or busway(s) or	served for med bathway reserv he charging ca iginating at a m	ium- ed fo bine
	SECTION 303 PHASED PROJECTS		5.106.4.1.4 For new shell build anticipated tenant-occupant ve	ings in phased projects provide secure bio hicular parking spaces with a minimum of	cycle parking for 5 percent of the one bicycle parking facility.		where potent proximity to t vehicles.	tial future mediu the potential futu	im-and heavy-our ure location of t	luty he c
	303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.		5.106.4.1.5 Acceptable bicycle be convenient from the street a	parking facility for Sections 5.106.4.1.2, 5 and shall meet one of the following:	5.106.4.1.3, and 5.106.4.1.4 shall		4. The raceway to the future 5.106.5.4.1.	v(s) or busway(s location of the c	 shall be suffic charging for me 	ient diun
	303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.		 Covered, lockable en Lockable bicycle rooi Lockable, permanent 	closures with permanently anchored racks ns with permanently anchored racks; or ly anchored bicycle lockers.	s for bicycles;		TABLE 5.106.5.4.1 RA			
	ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development BSC California Building Standards Commission		Note: Additional informa Sacramento Area Bicyc	ation on recommended bicycle accommoc e Advocates.	lations may be obtained from		REQUIREMENTS FO	R MEDIUM-	AND HEA	VY-
	DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development LR Low Rise		5.106.4.2 Bicycle parking. [DSA-SS 5.106.4.2.1 and 5.106.4.2.2	For public schools and community colleges	eges, comply with Sections					
	HR High Rise AA Additions and Alterations N New CHAPTER 5		5.106.4.2.1 Student bicycle p accessed with a minimum of fo 5.106.4.2.2 Staff bicycle parl with a minimum of two staff bic shall be convenient from the st	barking. Provide permanently anchored bur two-bike capacity racks per new building king. Provide permanent, secure bicycle by building spaces per new building. Accordent or staff parking area and shall meet or staff parking area and shall meet or building.	picycle racks conveniently ng. parking conveniently accessed ceptable bicycle parking facilities one of the following:		BUILDING TYPE	BUILDING SIZ	ZE (SQ. FT.)	L(
	NONRESIDENTIAL MANDATORY MEASURES DIVISION 5.1 PLANNING AND DESIGN		 Covered, lockable en Lockable bicycle rooi Lockable, permanent 	closures with permanently anchored racks ns with permanently anchored racks; or ly anchored bicycle lockers.	s for bicycles;		Grocery	10,000 to	90,000	
	SECTION 5.101 GENERAL 5.101.1 SCOPE		5.106.5.3 Electric vehicle (EV) charging electric vehicle charging shall comply with regulations in the California Building Coc	I. [N] Construction to provide electric veh Section 5.106.5.3.1 and shall be provide e and the California Electrical Code	icle infrastructure and facilitate d in accordance with			10,000 to	135,000	
	The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.		Exceptions:	e and the Camornia Electrical Code.	and determined compliance with		Retail	Greater tha	n 135,000	
	SECTION 5.102 DEFINITIONS 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)		1. On a case-by-case this section is not f a. Where there i b. Where the loc c. Where there i	e basis where the local enforcing agency r easible based upon one of the following c s no local utility power supply al utility is unable to supply adequate pow s evidence suitable to the local enforcement	onditions: ver.		Warehouse	20,000 to	256,000	
	CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.		local utility inf Section 5.106 2. Parking spaces ac	rastructure design requirements, directly r .5.3, may adversely impact the construction cessible only by automated mechanical ca	elated to the implementation of on cost of the project. ar parking systems are not			Greater tha	n 256,000	
	LOW-EMITTING AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following:		required to comp 5.106.5.3.1 EV capable spa	ly with this code section			5.106.8 LIGHT POLLUTION REE with the following:	DUCTION. [N].	Outdoor lightir	ıg sy
	 Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D. NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle"		[N] EV capable spaces shall requirements: 1. Raceways comply diameter shall be p the area, and shall and into a suitable	be provided in accordance with Table 5.1 ng with the California Electrical Code and provided and shall originate at a service pa terminate in close proximity to the propos listed cabinet, box,enclosure or equivaler	06.5.3.1 and the following no less that 1-inch (25 mm) anel or a subpanel(s) serving sed location of the EV capable nt. A common raceway may be		 The minimum requiremend Section 10-114 of the Car Backlight (B) ratings as of Uplight and Glare ratings Chapter 8) and Allowable BUG ratings relawfully enacted pursuant 	ents in the Califo alifornia Adminis defined in IES T s as defined in C not exceeding th at to Section 10 [°]	ornia Energy Co strative Code; a M-15-11 (show California Energ ose shown in T 1 7 whichever i	de fo nd n in ly Co able
	either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.		2. A service panel or capacity for a dedi	subpanel (s) shall be provided with panel cated 208/240 volt, 40-ampere minimum b	space and electrical load pranch circuit for each EV		Exceptions: [N]			
	TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.		capable space, with 3. The electrical syste to supply full rated	h delivery of 30-ampere minimum to an in em and any on-site distribution transforme amperage at each EV capable space.	stalled EVSE at each EVCS. ers shall have sufficient capacity		 Luminaires that q Emergency lighting Building facade n 	ualify as except ng. neeting the requ	ions in Sections irements in Tab	3130 ble 1
	VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.		4. The service panel protective devices permanently and v	or subpanel circuit directory shall identify space(s) as "EV CAPABLE". The racewa isibly marked as "EV CAPABLE."	the reserved overcurrent y termination location shall be		 Custom lighting for Alternate materia Luminaires with log 	eatures as allow Ils, designs and ess than 6,200 i	ved by the local methods of cor nitial luminaire	enfo Istru Iume
	ZEV. Any vehicle certified to zero-emission standards. SECTION 5.106 SITE DEVELOPMENT		charging space serve charging space shall count a complying with any applicab agency. See vehicle Code S	a by electric venicle supply equipment or is at least one standard automobile parkir le minimum parking space requirements e ection 22511.2 for further details.	eesigned as a future EV og space only for the purpose of established by an enforcement		TABLE 5.106.8 [N] MA		LOWABLE	BA
	5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction		TABLE 5.106.5.3.1	Γ			UPLIGHT AND GLARE	(BUG) RAT		\top
	activities through one or more of the following measures: 5.106.1.1 Local ordinance . Comply with a lawfully enacted storm water management and/or erosion control		TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)^2			ZONE LZ0	ZONE LZ1	z
	ordinance. 5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by		0-9	0	0		BACKLIGHT RATING 3			+
	implementing an effective combination of erosion and sediment control and good housekeeping BMPs. 1. Soil loss BMPs that should be considered for implementation as appropriate for each project include,		26-50	8	2		mounting heights (MH) from property line	N/A	No Limit	
	but are not limited to, the following: a. Scheduling construction activity during dry weather, when possible. b. Preservation of natural features, vegetation, soil, and buffers around surface waters.		51-75 76-100	13 17	3 4		Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	_
	 c. Drainage swales or lined ditches to control stormwater flow. d. Mulching or hydroseeding to stabilize disturbed soils. e. Erosion control to protect slopes. 		101-150	25	6		0.5-1 MH from property line	N/A	B1	
	 f. Protection of storm drain inlets (gravel bags or catch basin inserts). g. Perimeter sediment control (perimeter silt fence, fiber rolls). b. Sediment trap or sediment basin to rotain sediment on site. 		201 AND OVER	20% of total ¹	9 25% of EV capable spaces ¹		Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	
	 i. Stabilized construction exits. j. Wind erosion control. k. Other soil loss BMPs acceptable to the enforcing agency. 		 Where there is insufficie The number of required 	nt electrical supply. EVCS (EV capable spaces provided with	EVSE) in column 3 count towards		MAXIMUM ALLOWABLE UPLIGHT RATING (U)			
	 Content solitions binnes acceptable to the enforcing agency. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but 		5.106.5.3.2 Electric vehicle char	EV capable spaces shown in column 2.			For area lighting ₃ For all other outdoor	N/A	U0	\square
	 are not limited to, the following: a. Dewatering activities. b. Material handling and waste management. c. Building materials stockpile management. d. Management of washout areas (concrete, paints, stucco, etc.). 		EV capable spaces shall be pro 5.106.5.3.1. The EVCS require Level 2 and Direct Current Fast provided.	ovided with EVSE to create EVCS in the r d by Table 5.106.5.3.1 may be provided v Charging (DCFC), except that at least o	number indicated in Table with EVSE in any combination of ne Level 2 EVSE shall be		lighting,including decorative luminaires	N/A	U1	
	 e. Control of vehicle/equipment fueling to contractor's staging area. f. Vehicle and equipment cleaning performed off site. g Spill prevention and control. h. Other housekeeping BMPs acceptable to the enforcing agency. 		One EV charger with multiple c permitted if the electrical load o accumulatively supplied to the	onnectors capable of charging multiple E apacity required by Section 5.106.5.3.1 f EV charger.	Vs simultaneously shall be or each EV capable space is					
			The installation of each DCFC capable spaces without EVSE service panel or subpanel.	EVSE shall be permitted to reduce the m by five and reduce proportionally the requ	inimum number of required EV uired electrical load capacity to the					

nent s MS is	systems (ALMS installed, the real). quired electrical	l load capacitv		Y N/A	RESPON. PARTY	MAXIMUM ALLOWABLE GLARE RATING 5 (G)					
vhen s	erviced by an E m 30 amores t	VSE controlled	by an ALMS. Eac	h cle			MAXIMUM ALLOWABLE GLARE RATING 5 (G)	N/A	G1	G2	G3	G4
ultane	ously charging	multiple EVs.		510			MAXIMUM ALLOWABLE GLARE RATING 5 (G)	N/A	G0	G1	G1	G2
all be	provided in acco	ordance with the	e California Buildir	ng			MAXIMUM ALLOWABLE GLARE RATING 5 (G)	N/A	G0	G0	G1	G1
ic Ope sor(s).	rations Policy D	irective 13-01 (Zero Emission Ve	hicle			MAXIMUM ALLOWABLE GLARE RATING 5 (G)	N/A	G0	G0	G0	G1
duty a facilita cery st future	nd heavy-duty. te future installa tores and retail s installation of m	tion of electric stores with plan edium- and he	vehicle supply ined off-street load avy-duty EVSE.	ding			1. IESNA Lighting Zones 0 and 5 a <i>Code</i> and Chapter 10 of the <i>Callifo</i>	are not applicab rnia Administra	le; refer to Lighti tive Code.	ng Zones as def	ined in the <i>Califo</i>	rnia Energy
ocal en e of th ower s e to sup	forcing agency e following cond upply. oply adequate p	has determined litions: ower.	I compliance with	this			2. For property lines that abut public considered to be 5 feet beyond the property lines that abut public road centerline of the public roadway or section.	actual property actual property ways and public public transit co	keways, plazas i line for purpose c transit corridors prridor for the pu	and parking lots, of determining of s, the property lir rpose of determi	the property line compliance with t ne may be consid ning compliance	may be this section. For lered to be the with this
e desig ly impa cordan	n requirements, act the construc ice with the <i>Cali</i>	g agency subst directly related tion cost of the fornia Building	antiating that I to the implement project. Code, the Californ	ation nia			3. General lighting luminaires in are ratings. Decorative luminaries locat	eas such as out ted in these are	door parking, sa as shall meet <i>U</i> -	les or storage lo value limits for "	ts shall meet thes all other outdoor	se reduced lighting"
remen / charg for trar with th he follo nent ar ccomm	ts for warehous ging supply and asformers(s), se le California Ele owing: and subpanel sha nodate the dedic	se, grocery sto distribution equ rvice panels(s) ctrical Code. Co Ill meet the min cated branch cir	ores and retail stand ipment, spare or subpanel(s) sha onstruction plans a imum power cuits for the future	ores all be and			5.106.8.1 Facing- Backlight Luminaries within 2MH of a prop and shall comply with the backlig the nearest point of that property Exception: Corners. If two to the luminaire, then the lum directly behind the luminaire lines to determine the require	perty line shall b ght rating specif y line. property lines (minaire may be e. The luminaire red backlight rat	e oriented so tha ied in Table 5.10 or two segments oriented so that shall still use the ing.	t the nearest pro 6.8 based on the of the same pro the intersection o distance to the	perty line is behir lighting zone an perty line) have e of the two lines (th nearest points(s)	nd the fixture, d distance to quidistant point ne corner) is on the property
licate c r medi reserve ing cal	on or more locati um-and heavy-c ed for routing of pinet(s) and disp	ion(s) convenie duty ZEV chargi conduit from th penser(s) as sho	nt to the planned ing cabinets and e termination of th own in Table	ie			5.106.8.2 Facing-Glare. For luminaires covered by 5.106 2MH of the luminaire then the lu 5.106.8 based on the lighting zo hemisphere.	8.1, if a proper minaire shall co ne and distance	ty line also exists mply with the mo to the nearest p	within or extend ore stringent glar point on the neare	ls into the front he e rating specified est property line v	emisphere withi in Table vithin the front
at a ma eavy-d on of th suffic for med	ain service pane uty EVSE will be ne charging equ ient size to carry dium- and heavy	el or a subpanel e located and sl ipments for med y the minimum a y-duty ZEVs as	l(s) serving the are hall terminate in c dium- and heavy-c additional system shown in Table	ea lose duty load			Note: [N] 1.See also <i>California Building</i> parking facilities and walkways 2.Refer to Chapter 8 (Complia A-1, <i>California Energy Code</i> T 3. Refer to the <i>California Build</i>	<i>Code</i> , Chapter s. Ince Forms, Wo ables 130.2-A a <i>ding Code</i> for re	12, Section 1205 rksheets and Re and 130.2-B. quirements for a	5.6 for college car ference Material) dditions and alte	mpus lighting req) for IES TM-15-1 rations.	uirements for 1 Table
				-			5.106.10 GRADING AND PAVING. manage all surface water flows to water include, but are not limited	Construction p to keep water from the following	lans shall indicat	e how site gradir lings. Examples	ng or a drainage s of methods to ma	system will anage surface
T AN HEA\	ID PANEL F /Y-DUTY E ^v	POWER VSE [N]					 Swales. Water collection and dispos French drains. Water retention gardens 	al systems.	9.			
							5. Other water measures whic Exception: Additions a	h keep surface and alterations r	water away from not altering the d	buildings and aid rainage path.	d in groundwater	recharge.
T.)	OFF-STRE	ET FOI ACES B	R RACEWAY & USWAY AND ANSFORMER & PANEL				5.106.12 SHADE TREES [DSA-SS] and 5.106.12.3. Percentages sh necessary to establish and main	Shade Trees own shall be mo tain tree health	shall be planted t easured at noon shall comply with	to comply with Se on the summer s n Section 5.304.6	ections 5.106.12. olstice. Landscap S.	1, 5.106.12.2, be irrigation
	1 or 2		200				to provide shade over 50 percer	it of the parking	area within 15 y	ears.		
)	3 or Great	er er	400	-			materials that comply w lieu of shade tree plant	parking area co vith Table A5.10 ing.	6.11.2.2 in Appe	endix A5 shall be	e structures with permitted in who	ble or in part in
	1 or 2	~	200	-			5.106.12.2 Landscape areas. S provide shade of 20% of the land	Shade tress pla dscape area wit	ntings, minimum hin 15 years.	#10 container siz	ze or equal shall l	be installed to
0	1 or Great	er er	400				Exceptions: Playfield	s for organized	sport activity are	not included in t	the total area cal	culation.
	1 or 2		200	-			5.106.12.3. Hardscape areas. provide shade over 20 percent of	Shade tree pla of the hardscape	ntings, minimum area within 15 y	#10 container si vears.	ze or equal shall	be installed to
0	3 or Great 1 or Great	er er	400 400				Exceptions: 1. Walks, hardscape areas co materials that comply with of shade tree planting.	vered by solar Table A5.106.1	photovoltaic sha 1.2.2 in Appendi	de structures or x A5 shall be pe	shade structures rmitted in whole o	with roofing or in part in lieu
⁻ lightin ⁻ gy Coo ode; ar (showr	g systems shall de for Lighting Z nd n in Table A-1 in	be designed an ones 0-4 as def Chapter 8);	id installed to com	ply D,			2. Designated and marked pla DIVISION 5.2 ENER SECTION 5.201 GENERA 5.201.1 Scope [BSC-CG]. <i>Californi</i> standards in this code, the California	ay areas of orga RGY EFF L a Energy Code Energy Comm	nized sport activ ICIENCY (DSA-SSJ. For ission will continu	the purposes of the to adopt manc	led in the total ar mandatory energ latory building sta	ea calculation. ly efficiency andards.
Energy /n in Ta	y Code (shown i able 5.106.8, [N]	n Tables 130.2- or Comply with	A and 130.2-B in a local ordinance	•			DIVISION 5.3 WAT	ER EFFI			SERVATIO	ON
never is	s more stringent.		formia Engenne Ocal				SECTION 5.301 GENERA 5.301.1 Scope. The provisions of the and in wastewater conveyance.	L is chapter shall	establish the me	ans of conservin	g water use indo	ors, outdoors
in Tab	le 140.7-B of the	e California Ene	ergy Code, Part 6.	e.			SECTION 5.302 DEFINITI 5.302.1 Definitions. The following t	ONS erms are define	d in Chapter 2 <i>(a</i>	and are included	here for reference	e)
of con inaire l	struction. umens.	y, as permitted	by Section 101.0				EVAPOTRANSPIRATION ADJUST reference evapotranspiration that ad the amount of water that needs to be	MENT FACTOF justs for plant fa applied to the	R (ETAF) [DSA-S loctors and irrigati landscape.	SS]. An adjustme on efficiency, wh	ent factor when a ich ae two major	pplied to influences on
BLE	BACKLIGH	Г,					FOOTPRINT AREA [DSA-SS]. The not including exterior areas such as	total area of the stairs, covered v	e furthest exterio walkways, patios	r wall of the struc and decks.	cture projected to	natural grade,
2							METERING FAUCET . A self-closing volume or cycle duration can be fixed	g faucet that dis d or adjustable.	penses a specific	c volume of wate	r for each actuation	on cycle. The
ING LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4				GRAYWATER. Pursuant to Health a has not been contaminated by any to bodily wastes, and does not present operating wastes. "Graywater" inclu washbasins, clothes washing machin dishwashers.	and Safety Cod bilet discharge, a threat from co des, but is not li nes and laundry	e Section 17922. has not been affe ontamination by u mited to wastew tubs, but does n	12, "graywater" r ected by infectiou inhealthful proce ater from bathtub ot include waste	means untreated is, contaminated, ssing, manufactu os, showers, bath water from kitche	wastewater tha or unhealthy iring, or room en sinks or
imit	No Limit B3	No Limit B4	No Limit B4				MODEL WATER EFFICIENT LAND design, installation and maintenance landscapes greater than 2500 square climatological parameters.	SCAPE ORDIN practices that v e feet meet an i	ANCE (MWELO vill ensure comm rrigation water bu). The California lercial, multifamil udget developed	ordinance regula y and other devel based on landsca	ating landscape loper installed aped area and
1	B2	B3	B3				MODEL WATER EFFICIENT LAND (California Code of Regulations, Title maintenance practices. Local agence as effective as the MWELO.	SCAPE ORDIN 23, Division 2, iles are required	ANCE (MWELO Chapter 2.7), reg I to adopt the upo). [HCD] The Ca gulating landscap dated MWELO, c	ilifornia model oro be design, installa or adopt a local or	dinance ation and rdinance at leas
)	B0	B1	B2				POTABLE WATER. Water that is during the water Standards. See definition in the	rinkable and me ոe California Plu	ets the U.S. Env mbing Code. Pa	ironmental Prote rt 5.	ction Agency (EF	PA) Drinking
<u> </u>							POTABLE WATER. [HCD] Water th U.S. Environmental Protection Agen	nat is satisfactor cy (EPA) Drinkii	y for drinking, cu g Water Standa	llinary, and dome rds and the requ	estic purposes, ar irements of the H	nd meets the ealth Authority
,	LI2						Having Jurisdiction. RECYCLED WATER. Water which	as a result of tr	eatment of waste	e, is suitable for a	direct beneficial	use or a
							controlled use that would not otherwite treated to remove waste matter attai	ise occur [Wate ning a quality th	r Code Section 1 at is suitable to u	3050 (n)]. Simply use the water aga	y put, recycled wa	ater is water
						1	■ SUBMETER. [HCD 1] A secondary (aevice beyond a	a meter that mea	sures water cons	sumption of an inc	aividual rental

Ordinance (MWELO).

1954.202 (g) and Water code Section 517 for additional details.)

water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape



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

Υ

, N/A RESPON. PARTY

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that

east

unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied

P A C I F I C ARCHITECTS

1117 COAST VILLAGE RD. MONTECITO, CA 93108 8 0 5.5 6 5.3 6 4 0

N N



Job Number: Date: 07.11.23



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

Y N/A	RESPON. PARTY			Y	N/A RESPON. PARTY	
		SECTION 5.303 INDOOR WATER USE 5.303.1 METERS. Separate submeters or metering devices sh	nall be installed for the uses described in Sections			
		503.1.1 and 503.1.2. 5.303.1.1 Buildings in excess of 50,000 square feet.	Separate submeters shall be installed as follows:			SECTION 5.402 DEFINITIONS
		 For each individual leased, rented or other ten more than 100 gal/day (380 L/day), including, k restaurant or food service, medical or dental of Where concrete submeters for individual build 	ant space within the building projected to consume but not limited to, spaces used for laundry or cleaners, ffice, laboratory, or beauty salon or barber shop.			5.402.1 DEFINITIONS. The following term ADJUST. To regulate fluid flow rate and a a damper.
		 writere separate submeters for individual build following subsystems: Makeup water for cooling towers where Makeup water for evaporative coolers g Steam and hot water boilers with energy 	e flow through is greater than 500 gpm (30 L/s). greater than 6 gpm (0.04 L/s). ly input more than 500,000 Btu/h (147 kW).			BALANCE. To proportion flows within the according to design quantities. BUILDING COMMISSIONING. A systematic process, including verifying and documenting
		5.303.1.2 Excess consumption. A separate submeter within a new building or within an addition that is projected	or metering device shall be provided for any tenant ed to consume more than 1,000 gal/day.			tested, operated and maintained to meet th ORGANIC WASTE. Food waste, green wa
		5.303.3 WATER CONSERVING PLUMBING FIXTURES AND	FITTINGS. Plumbing fixtures (water closets and the following:			soiled paper waste that is mixed in with foo TEST. A procedure to determine quantitati
		 5.303.3.1 Water Closets. The effective flush volume of flush. Tank-type water closets shall be certified to the performance of the second structure for the target to the performance of the second structure. 	f all water closets shall not exceed 1.28 gallons per erformance criteria of the U.S. EPA WaterSense			SECTION 5.407 WATER RESIS 5.407.1 WEATHER PROTECTION. Provid California Building Code Section 1402.2 (W
		Note: The effective flush volume of dual flush toilets is d two reduced flushes and one full flush.	defined as the composite, average flush volume of			ordinance, whichever is more stringent. 5.407.2 MOISTURE CONTROL. Employ m
		5.303.3.2 Urinals. 5.303.3.2.1 Wall-mounted Urinals. The effective 0.125 gallons per flush	e flush volume of wall-mounted urinals shall not exceed			5.407.2.1 Sprinklers. Design and m 5.407.2.2 Entries and openings. De
		5.303.3.2.2 Floor-mounted Urinals. The effective not exceed 0.5 gallons per flush.	e flush volume of floor-mounted or other urinals shall			rain to prevent water intrusion into be 5.407.2.2.1 Exterior door pr intrusion by using nonabsorb
		5.303.3.3 Showerheads. [BSC-CG] 5.303.3.3.1 Single showerhead. Showerheads s gallons per minute at 80 psi. Showerheads shall k WaterSense Specification for Showerheads.	shall have a maximum flow rate of not more than 1.8 be certified to the performance criteria of the U.S. EPA			such openings plus at least or 1. An installed awning 2. The door is protecte 3. The door is recessed
		5.303.3.3.2 Multiple showerheads serving one showerhead, the combined flow rate of all the shore single valve shall not exceed 1.8 gallons per minurallow only one shower outlet to be in operation at a Note: A hand-held shower shall be considered as	shower. When a shower is served by more than one werheads and/or other shower outlets controlled by a te at 80 psi, or the shower shall be designed to a time. showerhead.			4. Other methods white 5.407.2.2.2 Flashing. Install
		5.303.3.4 Faucets and fountains.				SECTION 5.408 CONSTRUCTI RECYCLING
		5.303.3.4.1 Nonresidential Lavatory faucets. La more than 0.5 gallons per minute at 60 psi.	avatory faucets shall have a maximum flow rate of not			5.408.1 CONSTRUCTION WASTE MANA non-hazardous construction and demolition meet a local construction and demolition wa
		5.303.3.4.2 Kitchen faucets. Kitchen faucets sha gallons per minute at 60 psi. Kitchen faucets may but not to exceed 2.2 gallons per minute at 60 psi, per minute at 60 psi.	Il have a maximum flow rate of not more than 1.8 temporarily increase the flow above the maximum rate, , and must default to a maximum flow rate of 1.8 gallons			 5.408.1.1 Construction waste man demolition waste management ordin 1. Identifies the construction
		5.303.3.4.3 Wash fountains. Wash fountains sha gallons per minute/20 [rim space (inches) at 60 ps	ll have a maximum flow rate of not more than1.8 si].			 2. Determines if construction bulk mixed (single stream) 3. Identifies diversion facilitie
		5.303.3.4.4 metering faucets. Metering faucets sl 5.303.3.4.5 Metering faucets for wash fountains maximum flow rate of not more than 0.20 gallons r	 s. Metering faucets for wash fountains shall have a per minute/20 [rim space (inches) at 60 psi]. 			by weight or volume, but n 5.408.1.2 Waste Management Con
		Note: Where complying faucets are unavailable, a reduction.	aerators or other means may be used to achieve			documentation that the percentage c complies with this section.
		5.303.3.4.6 Pre-rinse spray value When installed, shall meet the requirements in the Efficiency Regulations), Section 1605.1 (h)(4) Tab	e <i>California Code of Regulations</i> , Title 20 (Appliance le H-2, Section 1605.3 (h)(4)(A), and Section 1607			will be diverted by a waste managen
		(d)(7), and shall be equipped with an integral autor FOR REFERENCE ONLY: The following table and <i>Code of Regulations</i> , Title 20 (Appliance Efficiency 1605.3 (h)(4)(A).	matic shutoff. I code section have been reprinted from the <i>California</i> y Regulations), Section 1605.1 (h)(4) and Section -			 Excavated soil and land-cl Alternate waste reduction facilities capable of compli Demolition waste meeting and markets.
		TABLE H-2				5.408.1.3 Waste stream reduction not exceed two pounds per square for as approved by the enforcing agons
		STANDARDS FOR COMMERCIAL VALUES MANUFACTURED ON OF	PRE-RINSE SPRAY R AFTER JANUARY 28, 2019			5.408.1.4 Documentation. Documentation compliance with Sections 5.408.1.1,
		PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)			necessary and shall be accessible d
		Product Class 1 (\geq 5.0 ozt)Product Class 2 (> 5.0 ozf and \leq 8.0 ozf)Design 4 Class 2 (> 5.0 ozf and \leq 8.0 ozf)	1.00			1. Sample forms found in "A located www.dgs.ca.gov/B
		Product Class 3 (> 8.0 ozf) 5.303.4 COMMERCIAL KITCHEN EQUIPMENT.	1.28			Resources-List-Folder/CA management plan. 2. Mixed construction and de Resources Recvcling and
		5.303.4.1 Food Waste Disposers. Disposers shall eith when the disposer is not in use (not actively grinding foo more than 10 minutes of inactivity. Disposers shall use r Note: This code section does not affect local jurisdiction installation.	ner modulate the use of water to no more than 1 gpm d waste/no-load) or shall automatically shut off after no no more than 8 gpm of water. n authority to prohibit or require disposer			5.408.2 UNIVERSAL WASTE. [A] Addition provisions in Section 301.3 for nonresident items such as fluorescent lamps and ballas Universal Waste materials are disposed of materials shall be included in the construction
		5.303.5 AREAS OF ADDITION OR ALTERATION. For those Building Standards Commission as specified in Section 103, the to new fixtures in additions or areas of alteration to the building	occupancies within the authority of the California e provisions of Section 5.303.3 and 5.303.4 shall apply			Note: Refer to the Universal Waste
		5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITT in accordance with the <i>California Plumbing Code</i> , and shall me of the <i>California Plumbing Code</i> and in Chapter 6 of this code.	FINGS. Plumbing fixtures and fittings shall be installed bet the applicable standards referenced in Table 1701.1			5.408.3 EXCAVATED SOIL AND LAND C vegetation and soils resulting primarily from material may be stockpiled on site until the Exception: Reuse, either on or off-s
		SECTION 5.304 OUTDOOR WATER USE 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE with a local water efficient landscape ordinance or the current (Efficient Landscape Ordinance (MWELO) whichever is more st	AREAS. Nonresidential developments shall comply California Department of Water Resources' Model Water tringent.			Notes: 1. If contamination by disease Commissioner and follow
		 Notes: 1. The Model Water Efficient Landscape Ordinance (MW Title 23, Chapter 2.7, Division 2. 2. MWELO and supporting documents, including a wate https://www.water.ca.gov/. 	VELO) is located in the California Code of Regulations, er budget calculator, are available at:			2. For a map of know pest ar Food and Agriculture. (wv
		5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE landscape projects as described in Sections 5.304.6.1 and 5.30 Water Resources Model Water Efficient Landscape Ordinance 2.7, Division 2, Title 23, <i>California Code of Regulations</i> , except shall be 0.65 with an additional water allowance for special land	E AREAS. For public schools and community colleges, 04.6.2 shall comply with the California Department of (MWELO) commencing with Section 490 of Chapter that the evapotranspiration adjustment factor (ETAF) dscape areas (SLA) of 0.35.			SECTION 5.410 BUILDING MA 5.410.1 RECYCLING BY OCCUPANTS. F identified for the depositing, storage and co paper, corrugated cardboard, glass, plastic
		Exception : Any project with an aggregate landscape are prescriptive measures contained in Appendix	ea of 2,500 square feet or less may comply with the C D of the MWELO.			ordinance, if more restrictive.
		5.304.6.1 Newly constructed landscapes. New constructed landscapes. New constructed landscapes. New constructed landscapes.	ruction projects with an aggregate landscape			5.410.1.1 Additions. All additions c resulting in an increase of 30% or mo
		5.304.6.2 Rehabilitated landscapes. Rehabilitated lan landscape area equal to or greater than 1,200	ndscape projects with an aggregate) square feet.			Exception : Additions within a floor area.
		DIVISION 5.4 MATERIAL CONSER EFFICIENCY SECTION 5.401 GENERAL	RVATION AND RESOURCE			5.410.1.2 Sample ordinance. Space Division 30 of the <i>Public Resources</i> Recycling Access Act of 1991 (Act).
		5.401.1 SCOPE. The provisions of this chapter shall outline me efficiency through protection of buildings from exterior moisture techniques to reduce pollution through recycling of materials, a	eans of achieving material conservation and resource e, construction waste diversion, employment of and building commissioning or testing and adjusting.			Note: A sample ordinance for use by CalRecycle's web site.
ייספות						

N/A RESPON. PARTY 5.410.2 COMMISSIONING. [N] New buildings 10,000 squar and over, building commissioning shall be included in the desi verify that the building systems and components meet the owr Commissioning shall be performed in accordance with this sec N 5.402 DEFINITIONS comparable size and complexity. For I-occupancies that are no FINITIONS. The following terms are defined in Chapter 2 (and are included here for reference) L-occupancies that are not regulated y the California Energy C 5.410.2 through 5.410.2.6 shall apply. o regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust Note: For energy-related systems under the scope (Section 10 ventilation, air conditioning (HVAC) systems and controls, inde heating systems and controls, refer to California Energy Code To proportion flows within the distribution system, including sub-mains, branches and terminals, design quantities. Commissioning requirements shall include: **COMMISSIONING.** A systematic quality assurance process that spans the entire design and construction 1. Owner's or Owner representative's project requireme luding verifying and documenting that building systems and components are planned, designed, installed, 2. Basis of design. ated and maintained to meet the owner's project requirements. 3. Commissioning measures shown in the construction 4. Commissioning plan. **NASTE.** Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food waste that is mixed in with food waste. Functional performance testing. 6. Documentation and training. 7. Commissioning report. ocedure to determine quantitative performance of a system or equipment N 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT Exceptions: **ATHER PROTECTION.** Provide a weather-resistant exterior wall and foundation envelope as required by uilding Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local 1. Unconditioned warehouses of any size. whichever is more stringent. 2. Areas less than 10,000 square feet used for offices unconditioned warehouses. **ISTURE CONTROL.** Employ moisture control measures by the following methods. 3. Tenant improvements less than 10,000 square feet 4. Open parking garages of any size, or open parking 7.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures. Note: For the purposes of this section, unconditioned sh **2.2.2 Entries and openings**. Design exterior entries and/or openings subject to foot traffic or wind-driven provide heating and or air conditioning. o prevent water intrusion into buildings as follows: Informational Notes: **5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to 1. IAS AC 476 is an accreditation criteria for organizati such openings plus at least one of the following: commissioning personnel. AC 476 is available to the gualifications of commissioning personnel. AC 476 d 1. An installed awning at least 4 feet in depth. performance tests or to adjust and balance systems 2. The door is protected by a roof overhang at least 4 feet in depth. 3. The door is recessed at least 4 feet. 2. Functional performance testing for heating, ventilation 4. Other methods which provide equivalent protection. must be performed in compliance with the California **5.407.2.2.2 Flashing.** Install flashings integrated with a drainage plane. 5.410.2.1 Owner's or Owner Representative's Proie requirements of the building appropriate to its phase sha project begins. This documentation shall include the follo N 5.408 CONSTRUCTION WASTE REDUCTION. DISPOSAL AND 1. Environmental and sustainability goals. 2. Building sustainable goals. 3. Indoor environmental guality requirements. **NSTRUCTION WASTE MANAGEMENT.** Recycle and/or salvage for reuse a minimum of 65% of the 4. Project program, including facility functions ar bus construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or operation construction and demolition waste management ordinance, whichever is more stringent. 5. Equipment and systems expectations. 6. Building occupant and operation and mainten .1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and lition waste management ordinance, submit a construction waste management plan that: 5.410.2.2 Basis of Design (BOD). [N] A written explan the OPR shall be completed at the design phase of the l 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient cover the following systems: usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or . Renewable energy systems. bulk mixed (single stream). 2. Landscape irrigation systems. 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. 3. Water reuse system. 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. 5.410.2.3 Commissioning plan. [N] Prior to permit issue document how the project will be commissioned. The co .1.2 Waste Management Company. Utilize a waste management company that can provide verifiable 1. General project information. nentation that the percentage of construction and demolition waste material diverted from the landfill Commissioning goals. lies with this section. 3. Systems to be commissioned. Plans to test sy a. An explanation of the original design in The owner or contractor shall make the determination if the construction and demolition waste material b. Equipment and systems to be tested, in e diverted by a waste management company. c. Functions to be tested. d. Conditions under which the test shall b ptions to Sections 5.408.1.1 and 5.408.1.2: e. Measurable criteria for acceptable perfe 4. Commissioning team information. 1. Excavated soil and land-clearing debris. 5. Commissioning process activities, schedules 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle commissioning shall be included. facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities 5.410.2.4 Functional performance testing. [N] Functional and markets. installation and operation of each component, system a approved plans and specifications. Functional performan .1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does each of the building components tested, the testing met cceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement made proved by the enforcing agency. **.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates 5.410.2.5 Documentation and training. [N] A System including Occupational Safety and Health Act (OSHA) re liance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as ssary and shall be accessible during construction for examination by the enforcing agency. Title 8, Section 5142, and other related regulations. 5.410.2.5.1 Systems manual. [N] Documentatio completed within the systems manual and deliver 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" systems manual shall include the following: located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-1. Site information, including facility descr Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste 2. Site contact information. management plan. Basic operations and maintenance, incl 2. Mixed construction and demolition debris processors can be located at the California Department of troubleshooting, recommended mainter Resources Recycling and Recovery (CalRecycle). 4. Major systems. Site equipment inventory and maintena **IVERSAL WASTE.** [A] Additions and alterations to a building or tenant space that meet the scoping 6. A copy of verifications required by the n Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited 7. Other resources and documentation, if aste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste all be included in the construction documents. 5.410.2.5.2 Systems operations training. [N] A staff for each equipment type and/or system shall Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/ report and shall include the following: 1. System/equipment overview (what it is, CAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated equipment it interfaces). and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such 2. Review and demonstration of servicing y be stockpiled on site until the storage site is developed. 3. Review of the information in the System 4. Review of the record drawings on the ption: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. 5.410.2.6 Commissioning report. [N] A report of comm design and construction phases of the building project 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. representative. 2. For a map of know pest and/or disease guarantine zones, consult with the California Department of 5.410.4 TESTING AND ADJUSTING. New buildings less th Food and Agriculture. (www.cdfa.ca.gov) systems shall be required for new buildings less than 10,000 s alteration subject to Section 303.1. 5.410.4.2 (Reserved) Note: For energy-related systems under the scope (Sec N 5.410 BUILDING MAINTENANCE AND OPERATIONS heating, ventilation, air conditioning (HVAC) systems an **CYCLING BY OCCUPANTS.** Provide readily accessible areas that serve the entire building and are as water heating systems and controls, refer to Californi the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) requirements and Sections 120.5, 120.6, 130.4, and 140 gated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling systems. f more restrictive. 5.410.4.2 Systems. Develop a written plan of procedu ption: Rural jurisdictions that meet and apply for the exemption in Public Resources included for testing and adjusting shall include at a minir

42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, ing in an increase of 30% or more in floor area, shall provide recycling areas on site. **Exception**: Additions within a tenant space resulting in less than a 30% increase in the tenant space

floor area. **.1.2 Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, on 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and

A sample ordinance for use by local agencies may be found in Appendix A of the document at the ecycle's web site.

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

	Y N/A RESPON PARTY	
0.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet over, building commissioning shall be included in the design and construction processes of the building project to utbat the building systems and components must the owner's or owner representative's project requirements.		5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.
missioning shall be performed in accordance with this section by trained personnel with experience on projects of parable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and supancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 0.2 through 5.410.2.6 shall apply.		5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative w detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O a instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.
: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water ng systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements		5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports request by the enforcing agency.
nissioning requirements shall include:		DIVISION 5.5 ENVIRONMENTAL QUALITY
 Owner's or Owner representative's project requirements. Basis of design. Commissioning measures shown in the construction documents. Commissioning plan 		SECTION 5.501 GENERAL 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbor
 Functional performance testing. Documentation and training. Commissioning report. 		SECTION 5.502 DEFINITIONS 5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)
Exceptions:		ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous i
 Unconditioned warehouses of any size. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. 		A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level metro using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-wei adjustments have been made.
 Open parking garages of any size, or open parking garage areas, of any size, within a structure. Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning. 		of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,00 the amount of heat required to melt a ton (2,000 pounds) of ice at 32 ⁰ Fahrenheit.
Informational Notes:		except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.
 IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems. 		COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and me density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists of finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).
 Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the <i>California Energy Code</i>. 		Note: See CCR, Title 17, Section 93120.1.
5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the		DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level to 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.
project begins. This documentation shall include the following: 1. Environmental and sustainability goals.		DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound press sound power, sound intensity) with respect to a reference quantity.
 Building sustainable goals. Indoor environmental quality requirements. Project program, including facility functions and hours of operation, and need for after hours operation. Equipment and systems expectations. Building occupant and operation and maintenance (O&M) personnel expectations. 		ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric cell Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the <i>California Electrical</i> off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline group support equipment tractors boats and the like are not included.
5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall		ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric ve
 cover the following systems: 1. Renewable energy systems. 2. Landscape irrigation systems. 3. Water reuse system 		ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, an equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, de power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises will and the electric vehicle.
5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:		ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy the fluctuating noise level integrated over the time of period of interest.
 General project win be commissioned. The commissioning plan shall include the following. General project information. Commissioning goals. Systems to be commissioned. Plans to test systems and components shall include: An explanation of the original design intent. 		EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may not be divided or have grade separations at intersections.
 b. Equipment and systems to be tested, including the extent of tests. c. Functions to be tested. d. Conditions under which the test shall be performed. e. Measurable criteria for acceptable performance. 4. Commissioning team information. 		GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given green gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.
 Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included. 		GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995)
5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments		its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-y Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14. HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with
5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required,		GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).
including Occupational Safety and Health Act (OSHA) requirements in <i>California Code of Regulations</i> (CCR), Title 8, Section 5142, and other related regulations.		LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction with a radius 1.5 times the pipe diameter.
 5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following: Site information, including facility description, history and current requirements. 		 LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less the 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part sec.82.3 (as amended March 10, 2009). MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.
 Site contact information. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log. 		MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to
 4. Major systems. 5. Site equipment inventory and maintenance notes. 6. A copy of verifications required by the enforcing agency or this code. 		hundreths of a gram (g O ³ /g ROC). PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to th
7. Other resources and documentation, if applicable. 5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance		article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram product (excluding container and packaging).
staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:		PSIG. Pounds per square inch, guage. REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute t
 System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces). Review and demonstration of servicing/preventive maintenance. 		ozone formation in the troposphere.
 Review of the information in the Systems Manual. Review of the record drawings on the system/equipment. 		SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direct with a radius 1.0 times the pipe diameter.
5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.		SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 squar or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connector remote compressor units or condensing units.
0.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of ms shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or ation subject to Section 303.1.		VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings w vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)
5.410.4.2 (Reserved)		Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC defining included in that specific regulation is the one that prevails for the specific measure in question.
Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific		SECTION 5.503 FIREPLACES 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a swoodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinance
5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:		5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Perform Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are cert to meet the emission limits.
 Renewable energy systems. Landscape irrigation systems. Water reuse systems 		SECTION 5.504 POLLUTANT CONTROL 5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if
5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.		necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.
5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.		5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the trough installation and during storage on the construction site until final startup of the heating, cooling and ventila equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris may enter the system.



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Job Number: Date: 07.11.25



Sheet



California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

5 504 4 1 Adhesives sealants and caulks. Adhesives seal		
the requirements of the following standards:	ants, and caulks used on the project sha	ll meet
 Adhesives, adhesive bonding primers, adhesive prime comply with local or regional air pollution control or air qui 	rs, sealants, sealant primers and caulks s	shall
applicable, or SCAQMD Rule 1168 VOC limits, as shown	in Tables 5.504.4.1 and 5.504.4.2. Such	
(chloroform, ethylene dichloride, methylene chloride, perc	hloroethylene and trichloroethylene), exc	ept for
aerosol products as specified in subsection 2, below.		
 Aerosol adhesives, and smaller unit sizes of adhesive units of product, less packaging, which do not weigh more 	s, and sealant or caulking compounds (ir than one pound and do not consist of m	n lore
than 16 fluid ounces) shall comply with statewide VOC sta	andards and other requirements, includin	g
with Section 94507.		
		\neg $ $ $ $ $ $ $ $
Less Water and Less Exempt Compounds in Grams per Liter	1	
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT	
INDOOR CARPET ADHESIVES	50	
CARPET PAD ADHESIVES	50	
OUTDOOR CARPET ADHESIVES	150	
WOOD FLOORING ADHESIVES	100	
RUBBER FLOOR ADHESIVES	60	
SUBFLOOR ADHESIVES	50	
CERAMIC TILE ADHESIVES	65	
VCT & ASPHALT TILE ADHESIVES	50	
DRYWALL & PANEL ADHESIVES	50	
COVE BASE ADHESIVES	50	
MULTIPURPOSE CONSTRUCTION ADHESIVES	70	
STRUCTURAL GLAZING ADHESIVES	100	
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250	
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50	7
SPECIALTY APPLICATIONS		7
PVC WELDING	510	┨ ┃││ ┃
CPVC WELDING	490	┨ ┃││ ┃
ABS WELDING	325	7
PLASTIC CEMENT WELDING	250	7
ADHESIVE PRIMER FOR PLASTIC	550	
CONTACT ADHESIVE	80	
SPECIAL PURPOSE CONTACT ADHESIVE	250	
STRUCTURAL WOOD MEMBER ADHESIVE	140	
TOP & TRIM ADHESIVE	250	
SUBSTRATE SPECIFIC APPLICATIONS		
METAL TO METAL	30	
PLASTIC FOAMS	50	
POROUS MATERIAL (EXCEPT WOOD)	50	
WOOD	30	
	80	
FIDERGLASS	00	
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1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSIVE IN THE HIGHEST VOC CONTENT SHALL BE ALLOWED 2. FOR ADDITIONAL INFORMATION REGARDING METHOR CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COASDISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTM TABLE 5.504.4.2 - SEALANT VOC LIMIT Less Water and Less Exempt Compounds in Grams per Lifer SEALANTS ARCHITECTURAL MARINE DECK NONMEMBRANE ROOF ROADWAY SINGLE-PLY ROOF MEMBRANE OTHER SEALANT PRIMERS ARCHITECTURAL NONPOROUS POROUS MODIFIED BITUMINOUS MARINE DECK OTHER SEALANT SPECIFIED IN THESE TABLES, SEE SOUTH COMENTION REGARDING METHOR COTHER NOTE: FOR ADDITIONAL INFORMATION REGARDING METHOR COTTENT SPECIFIED IN THESE TABLES, SEE SOUTH COMENTION TEGENDING METHOR COTTERT SPECIFIED IN THESE TABLES, SEE SOUTH COMENTION TEGENDING METHOR MODIFIED BITUMINOUS MARINE DECK OTHER Stora A1 Paints and coatings. Architectural paints and coating the ARB Architectural Coatings Suggested Control Measure, as stringent local limits apply. The VOC content limit for coatings aptive the Coating Suggested Control Measure, an Nonflat-High Gloss VOC limit in Table 5.504.4.3 s	CURRENT VOC LIMIT COURTENT VOC LIMIT COURTENT CURRENT VOC LIMIT COURTENT CO	1 of cialty flat D07 nits for e of roduct

TABLE 5.504.4.3 - CONT.		YN	I/A RE	SPON. ARTY	5.504.4.6 Resilient flooring systems. Where resilient floor
GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT					receiving resilient flooring shall meet the requirements of th Method for the Testing and Evaluation of Volatile Organic C Environmental Chambers " Version 1.2 January 2017 (Em
	CURRENT VOC LIMIT	┥┃│			01350)
ALUMINUM ROOF COATINGS	400				See California Department of Public Health's website for ce https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHL
ASEMENT SPECIALTY COATINGS	400				F FO (A C () Varification of a smaller set Desument
BITUMINOUS ROOF COATINGS	50	╡╏╎			materials meet the pollutant emission limits.
BOND BREAKERS	350	4			5.504.4.7 Thermal insulation Comply with the requirements of the California Departmen
CONCRETE CURING COMPOUNDS	350				and Evaluation of Volatile Organic Chemical Emissions fror "Version 1.2, January 1.2, January 2017 (Emission testing
CONCRETE/MASONRY SEALERS	100				See California Department of Public Health's website for ce https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHL
DRIVEWAY SEALERS	50	4			5.504.4.7.1 Verification of compliance.
AUX FINISHING COATINGS	350	-			limits.
IRE RESISTIVE COATINGS	350				5.504.4.8 Acoustical ceiling and wall panels. Comply with the requirements of the California Department
LOOR COATINGS	100				and Evaluation of Volatile Organic Chemical Emissions from Version 1.2, January 2017 (Emission testing method for Ca
ORM-RELEASE COMPOUNDS	250	4			See California Department of Public Health's website for ce
HIGH-TEMPERATURE COATINGS	420				finish materials meet the pollutant emission limits.
NDUSTRIAL MAINTENANCE COATINGS	250				5.504.5.3 Filters. In mechanically ventilated buildings, profiltration media for outside and return air that provides at least 1.5 and 1.5 a
OW SOLIDS COATINGS1	120				13. MERV 13 filters shall be installed prior to occupancy, a the same value shall be included in the operation and main
	450	4			Exceptions: Existing mechanical equipment.
	500	-			5.504.5.3.1 Labeling. Installed filters shall be clearly la
/ULTICOLOR COATINGS	250				
PRETREATMENT WASH PRIMERS	420				prohibit smoking within 25 feet of building entries, outdoor air intal already prohibited by other laws or regulations; or as enforced by
PRIMERS, SEALERS, & UNDERCOATERS	100	-			county, city and county, California Community College, campus o University of California, whichever are more stringent. When ordin
REACTIVE PENETRATING SEALERS	250				signage to inform building occupants of the prohibitions.
ROOF COATINGS	50		_		SECTION 5.505 INDOOR MOISTURE CONTROL 5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet o
RUST PREVENTATIVE COATINGS	250				CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 Section 5.407.2 of this code.
SHELLACS:		4			SECTION 5.506 INDOOR AIR QUALITY
	550				5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally requirements of Section 120.1 (Requirements For Ventilation) of t
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100	┤╏│			code, whichever is more stringent, and Division 1, Chapter 4 of C
STAINS	250				ventilation, CO ₂ sensors and ventilation controls shall be specified of the California Energy Code, Section 120(c)(4)
STONE CONSOLIDANTS	450		_		5.506.3 Carbon dioxide (CO2) monitoring in classrooms.
SWIMMING POOL COATINGS	340				(DSA-SS) Each public K-12 school classroom, as listed in Table 1 equipped with a carbon dioxide monitor or sensor that meets the f
RAFFIC MARKING COATINGS	100	╡╏╎			1. The monitor or sensor shall be permanently affixed in a tar 6 feet (914 mm and 1829 mm) above the floor and at least
UB & TILE REFINISH COATINGS	250	┥╹╽╵			windows.When the monitor or sensor is not integral to an Energy Ma
VOOD COATINGS	275				carbon dioxide readings shall be available to and regularly
VOOD PRESERVATIVES	350				classroom have exceeded 1,100ppm. A sensor integral to a personnel through a visual and/or audible indicator when the
	340				exceeded 1,100ppm.The monitor or sensor shall measure carbon dioxide levels
. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEM 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS THE TABLE.	ARE LISTED IN SUBSEQUENT COLUMNS IN				 record of previous carbon dioxide measurements of not les 5. The monitor or sensor used to measure carbon dioxide level levels with a range of 400ppm to 2000ppm or greater.
2. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY T ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1 ROM THE AIR RESOURCES BOARD.	HE CALIFORNIA AIR RESOURCES BOARD, , 2008. MORE INFORMATION IS AVAILABLE				dioxide concentration and shall be certified by the manufac once every 5 years.
 5.504.4.3.2 Verification. Verification of compliance with thi the enforcing agency. Documentation may include, but is not 1. Manufacturer's product specification 2. Field verification of on-site product containers 	s section shall be provided at the request o ot limited to, the following:	of			SECTION 5.507 ENVIRONMENTAL COMFOR 5.507.4 ACOUSTICAL CONTROL. Employ building assemblies (STC) values determined in accordance with ASTM E 90 and AS Class (OITC) determined in accordance with ASTM E 1332, using Section 5.507.4.1 or 5.507.4.2.
5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet the requirement Health, "Standard Method for the Testing and Evaluation of Volatil Sources Using Environmental Chambers." Version 1.2, January 2 Specifications 01350)	ents of the California Department of Public le Organic Chemical Emissions from Indoo 017 (Emission testing method for California	or a			Exception: Buildings with few or no occupants or where c noise, as determined by the enforcement authority, such as structures and utility buildings.
See California Department of Public Health's website for certification https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/	ion programs and testing labs. Pages/VOC.aspx#material				Exception: [DSA-SS] For public schools and community subsections apply only to new construction.
5.504.4.4.1 Carpet cushion. All carpet cushion installed in requirements of the California Department of Public Health, Evaluation of Volatile Organic Chemical Emissions from Ind Chambers, "Version 1.2, January 2017 (Emission testing me	the building interior shall meet the "Standard Method for the Testing and oor Sources Using Environmental ethod for California Specifications				5.507.4.1 Exterior noise transmission, prescriptive met the noise source making up the building or addition envelo rating of at least 50 or a composite OITC rating of no less t 40 or OITC of 30 in the following locations:
See California Department of Public Health's website for ce	rtification programs and testing labs.				 Within the 65 CNEL noise contour of an airport. Exceptions:
5.504.4.4.2 Carpet adhesive. All carpet adhesive shall mee	et the requirements of Table 5.504.4.1.				 Ldn or CNEL for military airports shall be d Land Use Zone (AICUZ) plan. Ldn or CNEL for other airports and heliport
5.504.4.5 Composite wood products. Hardwood plywood, partic composite wood products used on the interior or exterior of the bu formaldehyde as specified in ARB's Air Toxics Control Measure (A seq.). Those materials not exempted under the ATCM must meet Table 5 504.4 5	cleboard and medium density fiberboard ildings shall meet the requirements for NTCM) for Composite Wood (17 CCR 9312) the specified emission limits, as shown in	0 et			shall be determined by the local general p 2. Within the 65 CNEL or Ldn noise contour of a fre- fixed-guideway source as determined by the Noi
 5.504.4.5.3 Documentation. Verification of compliance wit requested by the enforcing agency. Documentation shall inconstruct certifications and specifications. Chain of custody certifications 	h this section shall be provided as clude at least one of the following:				5.507.4.1.1. Noise exposure where noise contour noise level of 65 dB L_{eq} - 1-hr during any hour of ope exterior wall and roof-ceiling assemblies exposed to at least 45 (or OITC 35), with exterior windows of a r
 Product labeled and invoiced as meeting the Composite CCR, Title 17, Section 93120, et seq.). Exterior grade products marked as meeting the PS-1 or Engineered Wood Association, the Australian AS/NZS 2 standards 	e Wood Products regulation (see PS-2 standards of the 2269 or European 636 3S				5.507.4.2 Performance Method. For buildings located as roof-ceiling assemblies exposed to the noise source makin envelope shall be constructed to provide an interior noise envelope an hourly equivalent noise level (Leq-1Hr) of 50
5. Other methods acceptable to the enforcing agency.		ן ן			5.507.4.2.1 Site Features. Exterior features such a appropriate to the building, addition or alteration pro-
ABLE 5.504.4.5 - FORMALDEHYDE LIMITS)N				5.507.4.2.2 Documentation of Compliance. An a sound levels shall be prepared by personnel approve
ODUCT		╡┃│			5.507.4.3 Interior sound transmission. Wall and floor-ce spaces and public places shall have an STC of at least 40
RDWOOD PLYWOOD VENEER CORE	0.05]			Note: Examples of assemblies and their various STC ratir
	0.05	┤╟			Noise Control: www.toolbase.org/PDF/CaseStudies/stc_ic
DIUM DENSITY FIBERBOARD	0.11				5.508.1 Ozone depletion and greenhouse gas reductions. Ins equipment shall comply with Sections 5.509.1.1 and 5.509.1.2
IN MEDIUM DENSITY FIBERBOARD2 /ALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE XICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACC	0.13 CALIFORNIA AIR RESOURCES BOARD, AIR ORDANCE WITH ASTM E 1333. FOR	┘┃│			5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, ref contain CFCs.

DITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

ystems. Where resilient flooring is installed, at least 80 percent of floor area meet the requirements of the California Department of Public Health,"Standard aluation of Volatile Organic Chemical Emissions from Indoor Sources Using sion 1.2, January 2017 (Emission testing method for California Specifications	¥	RESPON. PARTY	5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming pote (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.
Public Health's website for certification programs and testing labs. ams/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material			Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.
of the California Department of Public Health "Standard Method of the Testing			5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch. flared tubing connections and short radius elbows shall not be used in
unic Chemical Emissions from Indoor Sources Using Environmental Chambers, Jary 2017 (Emission testing method for California Specification 01350). Public Health's website for certification programs and testing labs.			refrigerant systems except as noted below. 5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.
n of compliance. e provided verifying that thermal insulation materials meet the pollutant emission			5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with refrigerant charge of 5 pounds or less.
ind wall panels.			 5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base keep vibration levels below 8 mils. 5.508.2.4.2 Eleved tubing compactions. Double flored tubing compactions may be used for processing.
nic Chemical Emissions from Indoor Sources Using Environmental Chambers, " nission testing method for California Specification 01350). Public Health's website for certification programs and testing labs.			5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil. Exception: Single-flared tubing connections may be used with a multiring seal coated with
n of compliance. Documentation shall be provided verifying that acoustical e pollutant emission limits.			industrial sealant suitable for use with refrigerants and tightened in accordance with manufactu recommendations.
ally ventilated buildings, provide regularly occupied areas of the building with air return air that provides at least a Minimum Efficiency Reporting Value (MERV) of stalled prior to occupancy, and recommendations for maintenance with filters of ad in the operation and maintenance manual			 5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows. 5.508.2.2 Valves. Valves Valves and fittings shall comply with the <i>California Mechanical Code</i> and as follows.
echanical equipment.			5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.
Illed filters shall be clearly labeled by the manufacturer indicating the MERV			5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shabe installed in the space between the rupture disc and the relief valve inlet to indicate a disc
ding entries, outdoor air intakes and operable windows and within the building as gulations; or as enforced by ordinances, regulations or policies of any city, mmunity College, campus of the California State University, or campus of the			5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.
of the prohibitions.			5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve ca shall be brass or steel and not plastic.
ROL . Buildings shall meet or exceed the provisions of California Building Code, (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see			5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.
AIR QUALITY For mechanically or naturally ventilated spaces in buildings, meet the minimum rements For Ventilation) of the <i>California Energy Code</i> , or the applicable local			Exception: Valves with seal caps that are not removed from the valve during stem operation.
Division 1, Chapter 4 of CCR, Title 8. ONITORING. For buildings or additions equipped with demand control on controls shall be specified and installed in accordance with the requirements n 120(c)(4)			 5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegal salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to preve corrosion from these substances. 5.508.2.3.1 Ceil coating. Consideration shall be given to the best transfer efficiency of ceil coating to the set of the best transfer efficiency of ceil coating.
toring in classrooms. assroom, as listed in Table 120.1-A of the <i>California Energy Code,</i> shall be			5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted
or or sensor that meets the following requirements: e permanently affixed in a tamper-proof manner in each classroom between 3 and above the floor and at least 5 feet (1524 mm) away from door and operable			with a device the indicates the level of refrigerant in the receiver. 5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and
not integral to an Energy Management Control System (EMCS), the monitor or dioxide readings on the device. When the sensor is integral to an EMCS, the be available to and regularly monitored by facility personnel.			5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.
tion though a visual indicator on the monitor when the carbon dioxide levels in the 00ppm. A sensor integral to an EMCS shall provide notification to facility /or audible indicator when the carbon dioxide levels in the classroom have			5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the sa gauge.
easure carbon dioxide levels at minimum 15- minute intervals and shall maintain a de measurements of not less than 30 days duration. measure carbon dioxide levels shall have the capacity to measure carbon dioxide			5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no month than a +/- one pound pressure change from 300 psig, measured with the same gauge.
to 2000ppm or greater. certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon be certified by the manufacturer to require calibration no more frequently than			 5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging. 5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and
IMENTAL COMFORT			hold for 30 minutes. 5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for minutes
Employ building assemblies and components with Sound Transmission Class nee with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission nee with ASTM E 1332, using either the prescriptive or performance method in			5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 h with a maximum drift of 100 microns over a 24-hour period.
or no occupants or where occupants are not likely to be affected by exterior of or no occupants are not likely to be affected by exterior of orcement authority, such as factories, stadiums, storage, enclosed parking			CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS
olic schools and community colleges, the requirements of this section and all construction.			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
smission, prescriptive method. Wall and roof-ceiling assemblies exposed to e building or addition envelope or altered envelope shall meet a composite STC posite OITC rating of no less than 40, with exterior windows of a minimum STC of ng locations:			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 system Examples of acceptable HVAC training and certification programs include but are not limited to the following:
noise contour of an airport.			 State certified apprenticeship programs. Public utility training programs. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations Programs sponsored by manufacturing organizations.
or military airports shall be determined by the facility Air Installation Compatible ne (AICUZ) plan.			 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 of the special inspectors.
or other airports and neliports for which a land use plan has not been developed mined by the local general plan noise element.			other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competen to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition other certifications or gualifications acceptable to the enforcing agency, the following certifications or education ma
ce as determined by the Noise Element of the General Plan.			 Certification by a national or regional green building program or standard publisher.
- 1-hr during any hour of operation shall have building, addition or alteration iling assemblies exposed to the noise source meeting a composite STC rating of , with exterior windows of a minimum STC of 40 (or OITC 30).			 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.
oa. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and ed to the noise source making up the building or addition envelope or altered to provide an interior noise environment attributable to exterior sources that does not noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.			Notes: 1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code
res. Exterior features such as sound walls or earth berms may be utilized as ng, addition or alteration project to mitigate sound migration to the interior.			2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).
ation of Compliance. An acoustical analysis documenting complying interior epared by personnel approved by the architect or engineer of record.			[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's ager 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
smission. Wall and floor-ceiling assemblies separating tenant spaces and tenant have an STC of at least 40.			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.
s and their various STC ratings may be found at the California Office of org/PDF/CaseStudies/stc_icc_ratings.pdf.			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.
R AIR QUALITY house gas reductions. Installations of HVAC, refrigeration and fire suppression s 5.508.1.1 and 5.508.1.2.			703 VERIFICATIONS
ns (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not	Ĩ		construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

ANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

section or identified applicable checklist.



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

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N/A RESPON. PARTY

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ed to, special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate

PACIFIC ARCHITECTS

1117 COAST VILLAGE RD. MONTECITO, CA 93108 8 0 5 . 5 6 5 . 3 6 4 0

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William S Malf ALL IDEAS, DESIGNS AND PLANS INDICATED OR REPRESENTED BY THESE DRAWINGS ARE OWNED BY AND ARE THE PROPERTY OF PACIFIC ARCHITECTS AND WERE CREATED AND DEVELOPED FOR USE IN CONNECTION WITH THE CONNECTION WITH THE SPECIFIED PROJECT. NON OF SUCH IDEAS, DESIGNS, OR PLANS SHALL BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF PACIFIC ARCHITECTS.

Revision Description Date PLAN CHK 3/26/24 PLAN CHECK 5/29/24 /3 Job Number: Date: 07.11.23



Sheet of

	<u>Description of Building</u>	<u>Number and Type of Fastener</u>	Spacing and Location	Description of Building	Number and Typ
	<u>Elements</u> <u>Roof</u>			<u>Elements</u> <u>Wall</u>	2-8d common (;
1.	Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3-8d common (2½"x0.131"); or 3-10d box (3" x 0.128"); or 3-3"x0.131" nails 3-3" 14 gage staples, %" crown	Each end, toenail	19. 1" brace to each stud and plate	2-10d box (3"x 2-3"x0.131" nails; 2-3" 14 gage sta
		2-8d common (2½"x0.131")	Each end, toenail	20. 1" x 6" sheathing to each bearing	2-8d common (2-10d box (3"x
	Blocking between rafters or truss not at the wall top plate, to rafter or truss	2-3"x0.131" nails 2-3" 14 gage staples 2-16d common (3½"x0.162)	,	21. 1" x 8" and wider sheathing to each bearing	3-8d common (3-10d box (3"x
		2-3"x0.131" nails 2-3" 14 gage staples	End nail	22. Joist to sill, top plate, or girder	3-8d common (3-10d box (3"x 3-3"x0.131" nails;
	Flat blocking to truss and web filler	2-3"x0.131" nails @ 6"oc 2-3" 14 gage staples @ 6"oc	Face nail		3-5 14 gage sta
2.	Ceiling joists to top plate	3-8d common (2½" x 0.131"); or 3-10d box (3"x0.128"); or 3-3"x0.131" nails 3-3" 14 gage staples 7%" crown	Each joist, toenail	23. Rim joist, band joist, or blocking to top plate, sill or other framing member	10d box (3"x 0.1: 3"x0.131" nails; o 3" 14 gage stapl
3.	Ceilina joist not attached	3-16d common (3½"x0.162"); or		24. 1" x 6" subfloor or less to each joist	2-8d common (2-10d box (3"x
	to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1)	4-10d box (3"x0.128"); or 4-3"x0.131" nails 4-3" 14 gage staples, %" crown	Face nail	25. 2" subfloor to joist or girder	2-16d common (
4.	Ceiling joist attached to	Den Tekin 0200 7.2.1	F 11	26. 2" planks (plank ‡ beam - floor ‡ roof)	2-16d common (
	parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1)	Per 1 able 2306.7.3.1	Face hail		20d common (4
5.	Collar tie to rafter	3-10d common (3"x0.148"); or 4-10d box (3"x0.128"); or 4-3"x0.131" nails 4-3" 14 gage staples, %" crown	Face nail	27. Built-up girders ¢ beams, 2" lumber layers	10d box (3"x 0.1: 3"x0.131" nails; o 3" 14 gage stapl
6.	Rafter or roof truss to top plate (See Secion 2308.7.5, Table 2308.7.5)	3-10d common (3"x0.148"); or 3-16d box (3½"x0.135"); or 4-10d box (3"x 0.128"); or 4-3"x0 131" poils	Toenail ^c		And: 2-20d common 3-10d box (3"x 3-3"x0.131" nails; 3-3" 14 gage sta
		4-3" 14 gage staples, %" crown		- 28. Ledger strip supporting	3-16d box (3½"x 4-10d box (3"x
		2-16d common (3½"x0.162"); or 3-10d box (3"x 0.128"); or	End noil	joists or rafters	4-3"x0.131" nails 4-3" 14 gage sta
7.	Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam	3-3"x0.131" nails 3-3" 14 gage staples, 7/6" crown; or 3-10d common (3"x0.148"); or 3-16d box (3½"x0.135"); or		29. Joist to band joist or rim joist	3-16d box (3½"x 4-10d box (3"x 4-3"x0.131" nails 4-3" 14 gage sta
		4-10d box (3"x 0.128"); or 4-3"x0.131" nails 4-3" 14 gage staples, ¾" crown	Toenail	30. Bridging or blocking to joist, rafter or truss	2-8d common (2-10d box (3"x 2-3"x0 131" pails
8.	Stud to stud (not at	16d common (3½"x0.162");	24"oc face nail	Wood structural papels (WSP)	2-3" 14 gage sta
	braced wall panels)	10d box (3"x 0.128"); or 3-3"x0.131" nails 3-3" 14 gage staples, ¾" crown	16"oc face nail	sheathing to framing and particleboard wall sheathing to	
q	Stud to stud and abutting	16" common (3½"x0.162"); or	16"oc face nail	framing ^a	subfloor and wa
	studs at intersecting wall corners (at braced wall papels)	16d box (3½"x0.135"); or 3"x0.131" nails	12"oc face nail	31. ¾" - ½"	(2½"x0.131)(roof)
		3-3" 14 gage staples, 7/6" crown	12"oc face nail	-	13/4" 16 gage stap
10.	Built-up header (2" to 2")	16" common (3½"x0.162"); or	16"oc each edge, face nail		23%"x0.113" nail (
	header)	16d box (3½"x0.135");	12"oc each edge, face nail		1¾" 16 gage stap (roof)
11.	Continuous header to stud	4-8d common (2½"x0.131"); or 4-10d box (3"x0.128")	Toenail	32. ¹ % ₃₂ " - ³ ⁄ ₄ "	8d common (2½ 6d deformed (2 2¾"x0.113" nail; 2" 16 gage stapl
12.	Top plate to top plate	16" common (3½"x0.162"); or 10d box (3"x 0.128"); or	16"oc face nail	33. 7 ₈ " - 1/ ₄ "	10d common (3" 8d deformed (2)
		3-3" 14 gage staples, 76" crown	12"oc face nail	Other exterior wall sheathing	1½" galvanized ro
13.	Top plate to top plate, at end joints	8-16d box (3½"x0.135"); or 12-10d box (3"x 0.128"); or 12-3"x0.131" nails	Each side of end joint, face nail (minimum 24" lap splice length	34. ½" fiberboard sheathing⁰	(76 neda alame 1/4" 16 gage stap crown
		12-3" 14 gage staples, 7%" crown	each side of end joint)	35. ²⁵ 32" fiberboard sheathing ^b	1½" galvanized ro (7%" head diame 114" 16 gage stap
14.	Bottom plate to joist, rim joist, band joist or blocking (not at braced	16" common (3½"x0.162"); or 16d box (3½"x0.135"); or	16"oc face nail	<u>Wood structural panels</u>	crown
	wall panels)	3"x0.131" nails 12-3" 14 gage staples, %" crown	12"oc face nail	<u>combinations subfloor</u> <u>underlayment to framing</u>	Bd common (24
15.	Bottom plate to joist, rim joist, band joist or	2-16d common (3½"x0.162"); or	16 ¹¹ oc foco poil	36. 74" and less	6d common (2/2 6d deformed (2
	blocking at braced wall panels	4-3"x0.131" nails 4-3" 14 gage staples, %" crown		37. 7⁄8" - 1"	8d deformed (2) 10d common (3"
		4-8d common (2½" x 0.131"); or		$38. V_8'' - V_4''$	8d deformed (2)
16.	Stud to top or bottom	4-10d box (3"x 0.128"); or 4-3"x0.131" nails 4-3" 14 gage staples, 7%" crown; or	Toenail	39 1/2" or less	6d corrosion-res (1%"x0.106"); or
	plate	2-16d common (3½"x0.162"); or 3-10d box (3"x 0.128"); or	- 1 11		60 corrosion-res (2"x0.099") 80 corrosion-res
		5-5°XU.131° nails; or 3-3″ 14 gage staples, %″ crown	Ena hall	40. 5%"	(23%"x0.128"); or 6d corrosion-res (2½"x0.113)
17.	Top or bottom plate to stud	2-16d common (3½"x0.162"); or 3-10d box (3"x 0.128"); or 3-3"x0.131" nails; or 3-3" 14 gage staples, ¾" crown	End nail	<u>Wood structural panels (WSP),</u> <u>subfloor, roof and interior wall</u> <u>sheathing to framing and</u> <u>particleboard wall sheathing to</u> framina ^a	
18.	Top plates, laps at corners and intersections	2-16d common (3½"x0.162"); or 3-10d box (3"x 0.128"); or	Face noil	41. ½"	4d casing (½"x0 4d finish (½"x0.
		3-3"x0.131" nails; or 3-3" 14 gage staples, %" crown	TUCE TIUL	42. %"	6d casing (2"x0. 6d finish (Panel
				1	iricnes/

pe of Fastener	<u>Spacing and Location</u>	
2½"x0.131"); or 0.128"); or ; or aples. %" crown	Face nail	
2½"x0.131"); or 0.128")	Face nail	
2½"x0.131"); or 0.128")	Face nail	
2½"x0.131"); or floor 0.128"); or ; or aples, %" crown	Toenail	
"x0.131"); or 28"); or or es, %" crown	6"oc, toenail	-
2½"x0.131"); or 0.128")	Face nail	
(3½"x0.162")	Face nail	
(3½"x0.162")	Each bearing, face nail	
"x0.192")	32"oc, face nail at top and bottom staggered on opposite sides	
28"); or or es, %" crown	24"oc, face nail at top and bottom staggered on opposite sides	
(4"x0.192") 0.128"); or ; or aples, 7‰" crown	Ends and at each splice, face nail	
0.135"); or 0.128"); or aples, ¾" crown	Each joist or rafter, face nail	
0.135"); or 0.128"); or	End nail	
aples, %" crown		
2½"x0.131"); or 0.128"); or aples, 7%" crown	Each end, toenail	
	Intermediate Edges Supports	
deformed (2"x0.113") all)	<u>(inches) (inches)</u> 6 12	
		I I
med)	6 12	
med) (subfloor and wall)	6 12 6 12	
med) (subfloor and wall) ple, %" crown all)	6 12 6 12 4 8	
med) (subfloor and wall) ole, 7%" crown all) (roof)	6 12 6 12 4 8 4 8	
med) (subfloor and wall) ple, 7%" crown all) (roof) ple, 7%" crown	6 12 6 12 4 8 4 8 3 6	
med) (subfloor and wall) ole, 7%" crown all) (roof) ole, 7%" crown "x0.131); or "x0.113")	6 12 6 12 4 8 4 8 3 6 6 12	-
med) (subfloor and wall) ple, 7%" crown all) (roof) ple, 7%" crown "x0.131); or "x0.113") or e, 7%" crown	6 12 6 12 4 8 4 8 3 6 6 12 4 12 4 8	
med) (subfloor and wall) ple, 7%" crown all) (roof) ple, 7%" crown "x0.131); or "x0.131); or "x0.148"); or %"x0.148"); or	6 12 6 12 4 8 3 6 6 12 4 8 3 6 12 4 8 6 12	
med) (subfloor and wall) ple, %" crown all) (roof) ple, %" crown "x0.131); or "x0.131); or "x0.113") or e, %" crown (x0.148"); or ½"x0.131) pofing nail eter); or le with %" or 1"	6 12 6 12 4 8 4 8 3 6 6 12 4 8 6 12 3 6	
med) (subfloor and wall) ole, 7%" crown all) (roof) ole, 7%" crown "x0.131); or "x0.131); or "x0.131); or "x0.148"); or %"x0.131) or e, 7%" crown "x0.148"); or %"x0.131) ofing nail oter); or le with 7%" or 1"	6 12 6 12 4 8 4 8 3 6 6 12 4 8 5 12 4 8 6 12 3 6 3 6	
med) (subfloor and wall) ole, 7%" crown all) (roof) ole, 7%" crown "x0.131); or "x0.131); or "x0.131); or "x0.148"); or %"x0.148"); or %"x0.131) offing nail eter); or le with 7%" or 1"	6 12 6 12 4 8 4 8 3 6 6 12 4 8 6 12 4 8 6 12 3 6 3 6	
med) (subfloor and wall) ole, 7%" crown all) (roof) ole, 7%" crown "x0.131); or "x0.113") or e, 7%" crown [x0.148"); or ½"x0.131); or le with 7%" or 1" offing nail eter); or le with 7%" or 1"	 6 12 6 12 4 8 3 6 12 4 8 6 12 4 8 6 12 3 6 3 6 12 4 12 4 12 4 5 6 12 4 <li< td=""><td></td></li<>	
<pre>med) (subfloor and wall) ple, %" crown all) (roof) ple, %" crown "x0.131); or "x0.113") or e, %" crown x0.148"); or ½"x0.131) pofing nail pter); or le with %" or 1" pofing nail pter); or le with %" or 1" "x0.131); or "x0.131); or "x0.131); or %"x0.131); or %"x0.131)</pre>	6 12 6 12 4 8 3 6 6 12 4 8 6 12 3 6 3 6 4 12 4 8 6 12 3 6 3 6 12 12 4 12 3 6 12 12 6 12 6 12 6 12 12 12 13 12	
<pre>med) (subfloor and wall) ple, 7%" crown all) (roof) ple, 7%" crown (roof) ple, 7%" crown (x0.131); or (x0.148"); or (x0.131) pofing nail pter); or 1e with 7%" or 1" (x0.131); or (x0.131);</pre>	6 12 6 12 4 8 3 6 6 12 4 8 5 6 6 12 3 6 3 6 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12	
med (subfloor and wall) (subfloor and wall) ple, 7_6 " crown all) (roof) ple, 7_6 " crown (roof) ple, 7_6 " crown (x0.131); or (x0.148"); or (x0.148"); or (x0.148"); or (x0.148"); or (x0.148"); or 1e with 7_6 " or 1" pofing nail eter); or 1e with 7_6 " or 1" (x0.131); or (x0.131); or	6 12 6 12 4 8 3 6 6 12 4 8 3 6 3 6 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12	
med (subfloor and wall) (subfloor and wall) ple, 7_6 " crown all) (roof) ple, 7_6 " crown "x0.131); or "x0.131); or (x0.148"); or (x0.148"); or (x0.148"); or (x0.148"); or 1e with 7_6 " or 1" pofing nail eter); or 1e with 7_6 " or 1" (x0.131); or "x0.131); or (x0.131); or (x0.148); or (x0.131); or	6 12 6 12 4 8 3 6 6 12 4 8 3 6 6 12 4 8 6 12 3 6 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12	
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med (subfloor and wall) (subfloor and wall) ple, 7_6 " crown all) (roof) ple, 7_6 " crown "x0.131); or "x0.131); or x0.148"); or y_2 "x0.131) ofing nail eter); or le with 7_6 " or 1" pofing nail eter); or le with 7_6 " or 1" x0.131; or y_2 "x0.131); or y_2 "x0.131); or y_2 "x0.131) (x0.148); or y_2 "x0.131) (x0.148); or y_2 "x0.131) (x0.148); or y_2 "x0.131) (x0.148); or y_2 "x0.131) (x0.148); or y_2 "x0.131) (x0.148); or y_2 "x0.131)	6 12 6 12 4 8 3 6 6 12 4 8 6 12 4 8 6 12 3 6 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12	

F.	Reinforcing shall conform to ASTM A-615 Grade 40 or 60 for #4 and smaller and
	ASTM A-615 Grade 60 for #5 and larger. Epoxy coated reinforcing shall conform to
	ASTM A-775. See Sheet S1.2 for all required laps, bends \$ splices.
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- G. All Masonry shall be laid true, level, plumb, and neatly in accordance with the plans. Use running bond, unless otherwise noted.
- H. No chipped, cracked, soiled, or otherwise imperfect block shall be used in the work. I. Consolidate all grout using an electric mechanical vibrator of suitable size for masonry
- work. Vibrate 3 minutes after grout is deposited. J. Maximum grout lifts shall be 5'-4" maximum.
- Cleanouts are not required.
- Structural Steel and Miscellaneous Metals
- A. General: All structural steel work shall be done in accordance with the American Institude of Steel Construction Steel Construction Manual (AISC 360), Seismic Design Manual (AISC 341), and the CBC 2019 edition, chapter 22.
- B. Materials: All material specifications are to be retained by contractor and to be available to structural engineer at his request. ASTM A-992 (50ksi) 1. W Shapes: 2. Pipe Columns: ASTM A-53 Grade B (35ksi) 3. Hollow Structural Sections (HHS): ASTM A500 Grade B (46ksi) ASTM A-36 (36ksi) 4. Channels, Angles: ASTM A-325 (120ksi) 5. High Strength Bolts:
- ASTM A-307 or A-36 6. Anchor Bolts: 7. Weldina Rod: Heavily coated, conforming to American Welding Society "specifications for Arc welding electrodes" of E70xxx classification. Use low hydrogen electrodes for welding reinforcing bars.
- C. Galvanizing: Galvanize all miscellaneous iron angles, clips and other elements exposed to weather or in processing areas.
- D. Shop Drawinas: Submit a minimum of 2 sets of shop drawings to structural engineer for review (more sets shall be submitted if required by architect or general contractor).
- E. Shop Primer: Standard brand of rust inhibitive primer conforming to Federal Specification 2. Foundation Design TT-P-86E, Type III. Galvanized metal primer shall conform to Federal Specification TT-P-64LD, Type II. Do not paint areas to be welded or embedded into masonry or concrete.
- F. Erection: All field welding shall be in accordance with American Welding Society Structural Welding Code, AWS D1.1, and all applicable revisions. All welds shall be made only by welders, tackers, and welding operators who have been previously qualified by test as prescribed by the AWS Structural Welding Code, AWS D1.1, and applicable revisions. Weld electrodes shall be as specified by the American Institute of Steel Construction, "Specification for the Design, Fabrication, and Erection of Steel for Buildings": Erection shall be in accordance with the American Institute of Steel Construction "Code of Standard Practice". Adequate temporary guying and bracing shall be installed during erection where needed to secure the framing against wind \$ seismic forces, erection equipment, and erection operations. Do not use gas cutting torches for correcting fabrication errors in the structural framing. Report any errors to the structural engineer immediately. All bolts to be tightened to "snug tight" conditions, unless noted otherwise.
- G. Special Inspection is required for all field welding and high strength bolt installation. H. Fabrication: Fabricate structural steel in accordance with AISC specifications and as
- indicated on the shop drawings as reviewed by the architect, structural engineer, and general contractor. Fabrication shop is to be licensed and approved by the building official. If fabrication shop is not licensed and approved, all welding performed in the shop is to be Special inspected by a licensed Special inspector.
- Structural Wood
- A. General: All structural wood work shall be done in accordance with the National Design Specification for Wood Construction (NDS-2018 \$ SDPWS 2018) and the CBC 2019 edition, chapter 23.
- B. Structural members shall not be cut or drilled unless specifically noted or detailed.
- C. All lumber materials, unless otherwise noted or shown, shall be as follows: 1. Foundation sill, nailers, and ledgers embedded in or in direct contact with concrete or masonry shall be pressure treated D.F. 2. 6x Beam: No. 1 D.F.
- 3. Framing Members: a. Joists, headers, plates, subpurlins, nailers, and blocking shall be D.F. #2 or better unless noted otherwise.
- b. 2x4 studs shall be D.F. construction grade or better. c. All 2x joists and rafters are to be solid blocked at all points of bearing. Solid blocking is required at 8'-0"oc unless continuously braced on bottom edge. Blocking may be omitted for ceiling joists and roof rafters eight inches and less in depth, unless noted otherwise on plans.
- 4. Glue-Laminated Beams: a. Glulam beams shall conform to industrial arade 24F-V8 unless noted otherwise. Use architectural grade where noted on architectural plans. b. All glulam beams shall be fabricated by a licensed fabricator and shall have
- AITC certifications. c. Adhesives and laminations shall conform to AITC Standard A190.1.
- 5. Prefabricated Joist Notes:
- a. TJI joists shall be as manufactured by Trus-Joist (by Weyerhaeuser) and shall have solid plywood or Oriented Strand Board webs as recommended by the manufacturer for the loads and spans indicated. b. Microlam beams shall be as manufactured by Trus-Joist (by Weyerhaeuser).
- Multiple pieces shall be joined as follows: 2 pieces (3) rows 16d nails @ 12"oc
- 3 or more pieces (2) rows $\frac{1}{2}$ ϕ M.B. @ 12"oc
- c. The joists indicated on the plans are based on the manufacturer's load tables and must be verified by the manufacturer. Submit shop drawings and calculations for each different joist type, span, and loading condition. d. Install all joists and beams per the manufacturer's recommendations including
- all necessary stiffeners, bridging, blocking, and hangers. e. Flanges shall be designed to accommodate closely spaced plywood roof or floor
- diaphragm nailing where occurs on plans. f. Design loads shall be as indicated on plans. g. Parallam beams shall be as manufactured by Trus-Joist (by Weyerhaeuser)
- and shall have an E minimum = 2000 ksi.
- 6. Plywood Sheathing: a. Roof Sheathing shall be USDOC PSI or PS2 rated plywood or OSB as indicated on the plans. Plywood shall be fabricated using exterior glue. b. Floor Sheathing shall be USDOC PSI or PS2 rated plywood or OSB as indicated
- on the plans. Glue all contact surfaces. Nail with ring shank or screw shank nails. c. Wall Sheathing shall be USDOC PSI or PS2 rated plywood or OSB as scheduled on the plans. Block all panel edges.
- d. Plywood machine nailing will be subject to satisfactory job site demonstration and approval by the structural engineer. The approval is subject to continued satisfactory performance. If nail heads penetrate the outer ply more than would be normal for a hand hammer or if minimum allowable edge distances are not maintained, the performance will be deemed unsatisfactory.
- e. At all unblocked plywood roof sheathing edges, provide one ply clip between each joist unless T & G plywood is used.
- f. Plywood sheet minimum dimensions shall be 24". Minimum area shall be 8 sq, ft.
- q. Face nail 2x6 T & G decking with (2) 16d to each support.
- 7. Exposed Beams and Joists: a. All exposed beams and joists shall be Select Structural D.F., Free of Heart Center and Void of Defects.
- D. Bolted Joints . Bolts shall be ASTM A-307, unless noted otherwise on plans.
- 2. Bolt Holes are to be 1/32" to 1/16" larger than bolt diameter. Locate
- accurately. 3. Washers are to be provided at each bolt head and nut. Place washer
- next to wood 4. Lag or Wood Screws shall be screwed and not driven into place.
- 5. Tighten bolts up snug and re-tighten at the latest practical time during construction.
- E. Nailed Joints 1. Size and spacing shall be as shown on the drawings and nailing schedule, Sheet S1.3. 2. Sub-bore when nails tend to split wood. Sub-bore for 20d and larger
- nails. Drill diameter shall be 0.75 x nail diameter. 3. Nails shall be common or ICC approved plywood nails unless noted otherwise. Common nails shall have the following minimum shank diameters:
- 8d nail .131″ diameter 10d nail – .148" diameter
- 16d nail .162" diameter
- F. Joist Hangers and Framing Connectors 1. By Simpson Strong Tie Co. ICC-ES # 209, #393, #413, #1211
- G. Fasteners
- 1. Expansion Anchors to be Hilti Kwik-Bolt TZ ICC-ES-ESR #1917. 2. Epoxy shall be two part epoxy. Use Simpson SET-XP Epoxy ICC-ESR #2508. 3. Powder driven "shot pins" to be Hilti NK72 or approved equal. For use on interior, non-bearing sill plates on slab only.
 - FLOOR FRAMING PLAN

- 1. General
- following stages of construction: 1. Footing excavations completed. 2. Footing reinforcing bars in place. 3. Concrete placing operations.
- 4. Wood framing completed but not closed in. 5. Ply nailing completed but not covered. 6. All structural work completed.

- D. Dimensions shown shall take precedence over scale on plans, sections, and details. Notes and details on the drawings shall take precedence over general notes and typical details. Discrepancies shall be brought to the attention of the architect immediately.
- E. The contract structural drawings and specifications represent the finished structure. Unless otherwise noted, they do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure, workmen, or other persons during construction. OSHA regulations are to be strictly adhered to in providing the protective measures as stated above to include, but not limited to, all shoring, bracing,
- and underpinning.
- as applicable. G. Dimensions are to be checked and verified by the contractor. Discrepancies are to be reported to the architect immediately. Discrepancies are to be resolved before proceeding with work.
- H. All Special inspections are to be performed by a licensed Special Inspector approved by the building official and the structural engineer. The Special Inspector is an Agent of the Owner and is paid by the Owner, per CBC 2019, chapter 17 "Structural Tests and Special Inspections"
- A. General: All foundation work shall be done in accordance with the CBC 2019 edition, chapter 18.
- B. The Soils Report for this project was prepared by: N/A File Number: **N/A** Dated: N/A
- C. Foundation design is based on an allowable soil bearing pressure of: **1500** psf D. Provide 90% minimum soil compaction under all slabs and structural foundation work,
- unless noted otherwise in the soils report.
- Special Inspector.
- writing that: report (if available).
- 3. Concrete
- chapter 19.
- B. Mix Design: Concrete shall have the following 28 day compressive strengths (unless specifically noted otherwise on plans): <u>Typical</u>:
- .3000 psi * Slabs on Grade, Footinas. Grade Beams, Caissons, Structural Slabs, Basement Walls. ..3000 psi * Retaining Walls. ..3000 psi * *Indicates Special Inspection is required. <u>Residential:</u> (Light Frame Construction, Two Stories or Less)
- Slabs on Grade, Footings.. ...2500 psi (Special Inspection is Not Required)
- Mix Designs shall be prepared by the concrete supplier or testing agency and reviewed by the structural engineer a minimum of 2 days prior to concrete pour.
- C. Cement: Shall Conform to ASTM C-150, Type 2, Low Alkali. Minimum 5 ½ sacks per yard. D. Aggregate: Fine aggregate to conform to ASTM C-33. Coarse aggregate to comform to
- ASTM C-33. Maximum size to be 1" (maximum of 1 b" will be acceptable for footings only). Aggregate gradation shall conform to ASTM C-33. Pea Gravel shall not be used.
- E. Reinforcing Materials: #4 and smaller shall conform to ASTM A-706 or A-615 Grade 40 or 60. #5 and larger shall conform to ASTM A-706 or A-615 Grade 60. Steel welded wire reinforcement shall conform to ASTM A-1064. Epoxy coated reinforcing shall conform to ASTM A-775 or A-884. See Sheet S1.2 for all required laps, bends \$ splices. #6 bars and larger are to be shop fabricated. Make all bends cold.
- F. Concrete consistency: Slump limits shall be a minimum of 2 1/2" and a maximum of 4". Slabs on grade may be placed with a maximum slump of 5".
- G. Mix Designs shall be submitted as specified by the architect. If not specified, submit a minimum of two copies to the structural engineer a min. of 2 days prior to pour.
- H. Admixtures: Obtain structural engineers approval for all admixtures not noted: Flyash shall conform to ASTM C-618, type F; air entraining admixtures shall conform to ASTM C-260; water reducing admixtures shall conform to ASTM C-494 or ASTM C-1017.
- I. Check with all trades to insure proper placement of all inserts, sleeves, openings, conduits, etc. prior to pouring concrete. All penetrations through grade beams and all penetrations larger than 6" in diameter are to be approved by the structural engineer.
- J. All sleeves not specifically shown on the drawings shall be located by the trades involved and shall be reviewed by the structural engineer.
- K. Dry Pack: 1 Part Portland cement to 2 ½ parts sand; or use non-shrink metallic grout (submit proposal to structural engineer for review).
- L. Cover to Bars: Cover to reinforcing bars shall be as follows, unless otherwise shown or noted: Cover to reinforcing bars shall be increased by 50% (or epoxy coated reinforcing used) in corrosive environments or other severe exposure conditions. 1. When concrete is placed against ground . 2. When concrete is placed against forms, but after
- form removal will be in contact with around . 3. Inside face of walls not exposed to the elements. 4. All others
- M. Curing: Keep concrete slab on grade wet for 7 days, or cover with approved curing compound in strict accordance with manufacturer's installation recommendations.
- N. Vibrate all concrete in place with a mechanical vibrator used by experienced personnel.
- O. Slab Finishes: Interior slab finish shall be troweled smooth. Exterior slab finish shall be with a light broom perpendicular to travel. Unless otherwise noted.
- P. Slab tolerance to be planar to within $\frac{1}{6}$ " in 10 feet when checked with a 10' long rod in any direction.
- Q. Sill Plate Anchor Bolts: Provide minimum $\frac{5}{6}$ " diameter x 10" long anchor bolts spaced at 48" on center and within 12" of all sill plate ends or breaks. Provide additional anchor bolts as required by foundation plan and shear wall schedule. Anchor bolts shall be embedded 7" minimum into concrete.
- 4. Masonry
- A. General: All masonry work shall be done in accordance with the Masonry Standards Joint Committee (MSJC) Building Code requirements for masonry structures (TMS 402-13 / ACI 530-13 / ASCE 5-13), and the CBC 2019 edition, chapter 21.
- B. f^Im = 1500 psi, (TMS 602 S-16 Table 2) Periodic Special Inspection is required. C. Concrete masonry units shall be of a quality at least equal to the requirements as set forth in ASTM C-90, medium weight units. Use open ended units with fully
- mortared joints. F'c = 1900 psi
- D. Mortar shall conform to ASTM C-270 type M or S with more strength of 1250 psi at 7 days and 2500 psi at 28 days. Use mix ratios of 2 parts sand and 1 part type 2 Portland cement. Do not use masonry cement. 🗡
- E. Grout (fine grout) shall conform to ASTM C-476 with a compressive strength of 1250 psi at 7 days and 2000 psi at 28 days. Slump limits shall be a minimum of 8" and a maximum of 11". All masonry cells are to be solid grouted upless otherwise noted. Provide "Grout Aid" admixture in all grout. Follow manufacturer's recommendations for quantities and procedures.

A. The contractor shall inform the Structural Engineer 48 hours in advance of reaching the

B. Details shown on the structural drawings are typical, similar details apply to similar conditions. Contractor shall verify existing conditions. Any existing conditions requiring construction different from that shown shall be reported to the architect immediately.

C. All drawings shall be read in conjunction with the specifications, architectural, mechanical, electrical, and all other contract drawings as applicable.

F. Unless otherwise noted on the structural drawings, use typical details on sheet: S1.2

- E. Earthwork shall be performed in accordance with the soils report and certified by a
- F. Prior to the contractor requesting a building department foundation inspection, the soils engineer (contractor, if soils report is not available) shall advise the building official in) The building pad was prepared in accordance with the approved plans and the soils
- 2) The utility trenches have been properly backfilled and compacted. 3) The foundation excavations, forming, and reinforcements comply with the approved plans and the soils report (if available).
- G. Foundation excavations shall not disturb adjacent existing structures.
- A. General: All concrete work shall be done in accordance with the ACI Building Code (ACI 318-19), the ACI manuals of concrete practice, and the CBC 2019 edition,

Building Code: CBC 2019 Edition (based on IBC 2018 Edition)

Structural Observation Program (CBC 2019; 1704.6)

- A. The owner shall employ the Engineer of Record licensed in the State of California who is responsible for the structural design, to do structural observation.
- B. Engineer of Record: Kevin L. Vandervort, Registration/License Number: S 3734
- C. Designated Engineer to do Structural Observation: Kevin L. Vandervort, Registration/License Number: S 3734. EOR shall be contacted at least 48 hours in advance to schedule Structural Observations.
- D. The Engineer responsible for the Structural Observation, the Contractor, and appropriate Subcontractors shall hold a pre-construction meeting to review the details of the structural system to be structurally observed.
- E. Foundation: Structural elements to be observed prior to placement of concrete in the foundation. Footing excavations width and depth, reinforcing placement, holdown anchors and anchor bolts at shear walls, and utility line penetrations through structural elements.
- F. Floor Framing: Structural elements to be observed at each floor level. Shear wall construction, shear transfer, floor sheathing nailing.
- G. Roof Framing: Structural elements to be observed prior to roof covering. Shear wall construction, shear transfer, roof sheathing nailing, prefabricated roof truss installation (where applicable).
- H. FINAL OBSERVATION: Structural elements to be observed at the final observation visit. All drag straps and holdown straps installed, utility rough-ins, and all previous corrections completed.

Project Design Gravity Loads

Dead Loads:	N/A	psf	(Residential)
Live Loads:	40	psf	
<u>Floor Loads</u>			
Dead Loads:	20	psf	(Built-Up, Solar Panels
Live Loads:	20	psf	(0.25:12 Slope)
<u>Roof Loads</u>			

- Partition Loads N/A psf

Project Design Lateral Loads

- Risk Category II
- <u>Wind Design Data</u> (Directional Procedure, Simplified Method) (ASCE 7-16 27.4)
- Basic Wind Speed (Vult): 110 mph Exposure: B
- Height Above Ground Level (z): 15' Maximum Horizontal Design Pressure: 17.83 psf

<u>Seismic Design Data</u>

- Equivalent Lateral Force Procedure (ASCE 7, 12.8) 34.4405 Site Latitude:
- Site Longitude: -119.6595 Site Class: D
- (Ordinary Steel Moment Frame) R: 3.5 IF: 1.5
- Ss: **2,113**
- SI: 0.776 SDS: 1.690
- Cs: **0.724** Seismic Design Category: F
- ρ: **1.3** V=pCsWDL= 0.942 WDL

Tests and Inspections (X)

The following items require Special Inspection per CBC 2019 edition, chapter 17.

See plans and details for specific locations.

STATEMENT OF SPECIAL INSPECTIONS WORK REQUIRING SPECIAL INSPECTION AND STRUCTURAL SPECIAL INSPECT. STRUCT. SOILS OBSERVATION DURING: (TO BE SELECTED & CHECKED BY CONT. PERIODIC OBSERV ENGN'R THE DESIGN PROFESSIONAL OF RECORD PER CBC 2019) PLACEMENT OF COMPACTED FILL. GRADING, AND EXCAVATIONS GRADING & HELICAL PIER INSTALLATION FOUNDATION CAISSON EXCAVATION OTHER MIX DESIGN CONCRETE REINFORCING PLACEMENT Х COMPRESSION TESTING Х PNUEMATICALLY PLACED CONCRETE STRUCTURAL - CONCRETE f'_c ≥ 3,000 psi Х FOUNDATION / SLAB ON GRADE. CONC. fc = 2,500 psi NON-SHRINK GROUT BOLTS INSTALLED IN CONCRETE OTHER INSTALLATION OF ADHESIVE ANCHORS, RODS & DOWEL EXPANSION ANCHORS DRILLED TITEN HD ANCHORS ANCHORS OTHER SHOP WELDING, NON-CERTIFIED & APPROVED SHOPS FIELD WELDING STRUCTURAL STEEL ERECTION STRUCTURAL HIGH STRENGTH BOLT CONNECTIONS STEEL & WELDING REINFORCING WELDING METAL DECKING WELDING OTHER GROUT MIX DESIGN Х **REINFORCING PLACEMENT IN FOOTING** Х **REINFORCING PLACEMENT IN WALI** Х SAMPLE & TEST MORTAR Х MASONRY SAMPLE & TEST GROUT Х MASONRY UNIT PLACING & GROUTING Х PRISM TESTS **BRICK PUSH TESTS** OTHER STRUCTURAL FRAMING MEMBERS & CONNECTIONS Х DIAPHRAGM NAILING Х SHEAR WALLS, HOLDOWNS & SHEAR TRANSFER WOOD DRAG BEAMS, STRAPS & CONNECTIONS CONSTR. Х FINAL FRAMING Х OTHER SPRAY APPLIED FIREPROOFING MISC. TESTS OTHER



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51.2



CARPORT ROOF FRAMING PLAN

_**→**z 1/4" = 1'-*0*"



CARPORT FOUNDATION PLAN

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

____Z

TYPICAL FOUNDATION NOTES

- 1. Foundation Is Designed Per CBC (Ch. 18) Minimum Soil Requirements and 1,500 psf Soil Bearing Capacity. Contractor Shall Verify and/or Provide 90% Min. Compaction Under Existing Footings Supporting Additional New Loads, and Under All New Slabs & Footings.
- 2. Provide 90% minimum soil compaction under all slabs and structural foundation work, unless noted otherwise in the

GATE PILASTER FOUNDATION PLAN _**→**z 1/4" = 1'-*0*"

> NOTE: I. EOR to be Notified 48 Hours in Advance to Schedule Structural Observations as Noted in the Structural Observation Program on Sheet S1.1 . Required Special Inspections as Noted on S1.1 to be Performed by an Approved and Licensed Special Inspector



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