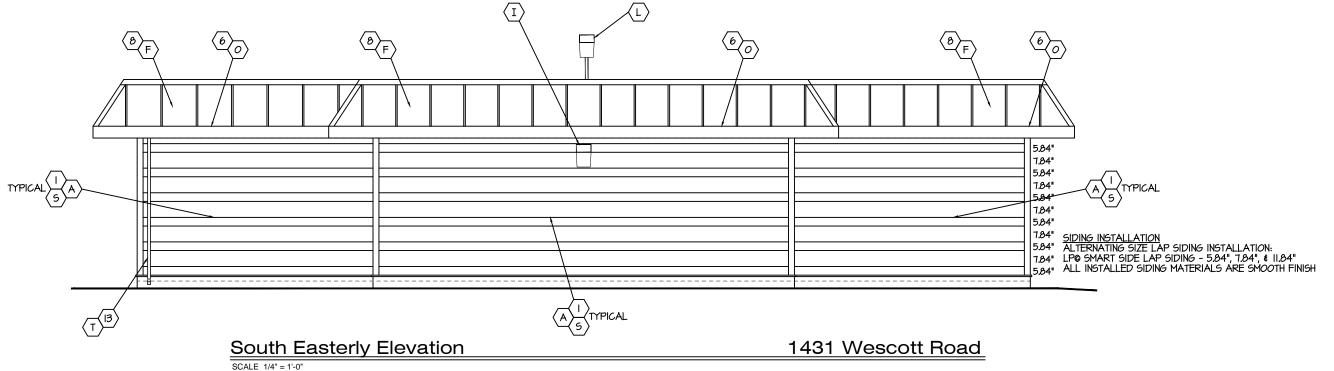
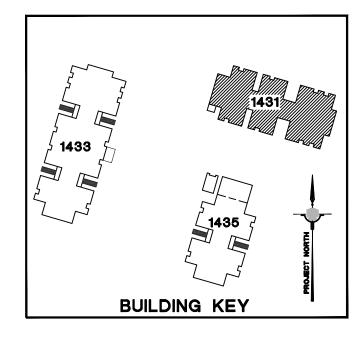


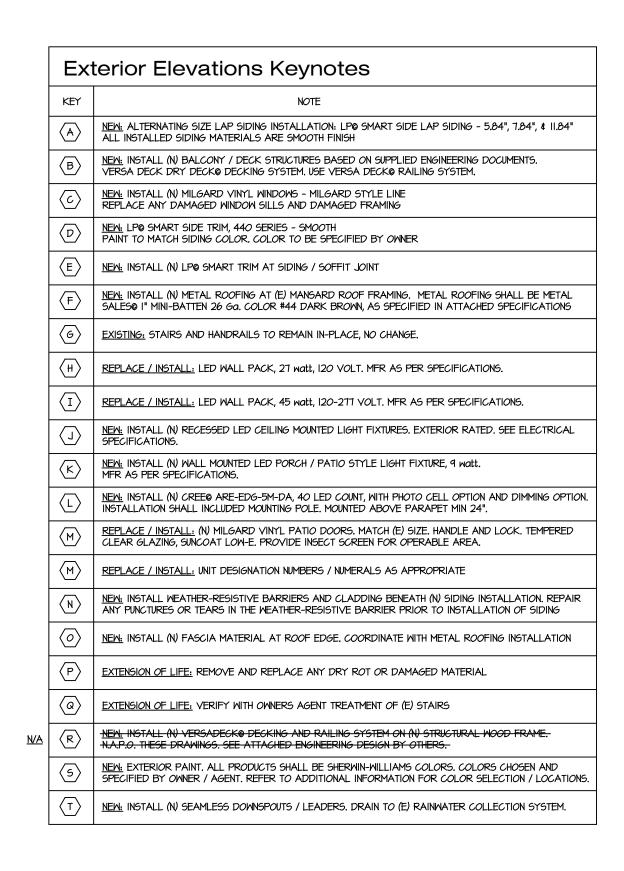
North Westerly Elevation SCALE 1/4" = 1'-0"

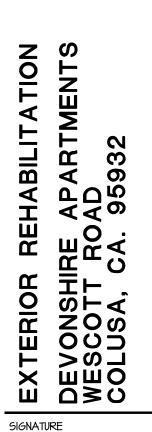


1431 Wescott Road

Demolition Keynotes KEY NOTE (I) <u>DEMOLITION</u>: REMOVE ALL (E) SIDING 2 DEMOLITION: REMOVE ALL (E) CORNER TRIM (3) <u>DEMOLITION:</u> REMOVE ALL (E) WINDOWS AND ASSOCIATED DEBRIS 4 DEMOLITION: REMOVE ALL (E) WINDOW TRIM 5 DEMOLITION: REMOVE ALL (E) PATIO DOORS AND ASSOCIATED DEBRIS 6 DEMOLITION: REMOVE (E) FASCIA BOARD (7) <u>DEMOLITION:</u> REMOVE (E) FASCIA BOARD (8) DEMOLITION: REMOVE ALL (E) ROOFING MATERIAL AT MANSARD ROOF SECTIONS (9) DEMOLITION: REMOVE (E) PATIO DECKING, POSTS AND RAILING (10) PROTECT: REMOVE (E) PATIO FENCING MATERIAL SECTIONS, PROVIDE STORAGE AND RE-INSTALL (II) PROTECT: PROVIDE PROTECTION AT (E) GAS METER STAND (12) PROTECT: PRESERVE (E) ROOFING MATERIAL - (NOT SHOWN) (13) DEMOLITION: REMOVE (E) DOWNSPOUTS AND DRAINAGE LEADERS







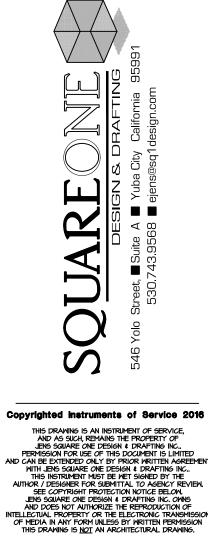
SCALE:

DATE:

DRAWN BY: E. JENS JOB No: 16-117 SHEET: 1431 SHEETS ОF REVISIONS

AS NOTED

8-5-16





FACES SOUTHWEST

Exterior Elevations Keynotes			
KEY	NOTE		
	NEM: ALTERNATING SIZE LAP SIDING INSTALLATION: LP@ SMART SIDE LAP SIDING - 5.84", 7.84", & 11.84" ALL INSTALLED SIDING MATERIALS ARE SMOOTH FINISH		
В	<u>NEM:</u> INSTALL (N) BALCONY / DECK STRUCTURES BASED ON SUPPLIED ENGINEERING DOCUMENTS. VERSA DECK DRY DECKIO DECKING SYSTEM. USE VERSA DECKIO RAILING SYSTEM.		
$\langle c \rangle$	<u>NEM:</u> INSTALL (N) MILGARD VINYL WINDOWS - MILGARD STYLE LINE REPLACE ANY DAMAGED WINDOW SILLS AND DAMAGED FRAMING		
	<u>NEM:</u> LP© SMART SIDE TRIM, 440 SERIES - SMOOTH PAINT TO MATCH SIDING COLOR. COLOR TO BE SPECIFIED BY OWNER		
E	NEW: INSTALL (N) LPO SMART TRIM AT SIDING / SOFFIT JOINT		
F	<u>NEM:</u> INSTALL (N) METAL ROOFING AT (E) MANSARD ROOF FRAMING. METAL ROOFING SHALL BE METAL SALES© I" MINI-BATTEN 26 Ga. COLOR #44 DARK BROWN, AS SPECIFIED IN ATTACHED SPECIFICATIONS		
6	EXISTING: STAIRS AND HANDRAILS TO REMAIN IN-PLACE, NO CHANGE.		
Н	REPLACE / INSTALL: LED WALL PACK, 27 watt, 120 VOLT. MFR AS PER SPECIFICATIONS.		
I	REPLACE / INSTALL: LED WALL PACK, 45 watt, 120-277 VOLT. MFR AS PER SPECIFICATIONS.		
L	<u>NEM:</u> INSTALL (N) RECESSED LED CEILING MOUNTED LIGHT FIXTURES. EXTERIOR RATED. SEE ELECTRICAL SPECIFICATIONS.		
K	<u>NEW:</u> INSTALL (N) WALL MOUNTED LED PORCH / PATIO STYLE LIGHT FIXTURE, 9 watt. MFR AS PER SPECIFICATIONS.		
L	<u>NEM:</u> INSTALL (N) CREEØ ARE-EDG-5M-DA, 40 LED COUNT, WITH PHOTO CELL OPTION AND DIMMING OPTION. INSTALLATION SHALL INCLUDED MOUNTING POLE. MOUNTED ABOVE PARAPET MIN 24".		
M	<u>REPLACE / INSTALL:</u> (N) MILGARD VINYL PATIO DOORS. MATCH (E) SIZE. HANDLE AND LOCK. TEMPERED CLEAR GLAZING, SUNCOAT LOW-E. PROVIDE INSECT SCREEN FOR OPERABLE AREA.		
$\langle M \rangle$	REPLACE / INSTALL: UNIT DESIGNATION NUMBERS / NUMERALS AS APPROPRIATE		
	<u>NEW:</u> INSTALL WEATHER-RESISTIVE BARRIERS AND CLADDING BENEATH (N) SIDING INSTALLATION. REPAIR ANY PUNCTURES OR TEARS IN THE WEATHER-RESISTIVE BARRIER PRIOR TO INSTALLATION OF SIDING		
\bigcirc	NEW: INSTALL (N) FASCIA MATERIAL AT ROOF EDGE. COORDINATE WITH METAL ROOFING INSTALLATION		
	EXTENSION OF LIFE: REMOVE AND REPLACE ANY DRY ROT OR DAMAGED MATERIAL		
(a)	EXTENSION OF LIFE: VERIFY WITH OWNERS AGENT TREATMENT OF (E) STAIRS		
$\langle R \rangle$	<u>NEW:</u> INSTALL (N) VERSADECKØ DECKING AND RAILING SYSTEM ON (N) STRUCTURAL WOOD FRAME. N.A.P.O. THESE DRAWINGS. SEE ATTACHED ENGINEERING DESIGN BY OTHERS.		
(ح)	<u>NEW:</u> EXTERIOR PAINT. ALL PRODUCTS SHALL BE SHERWIN-WILLIAMS COLORS. COLORS CHOSEN AND SPECIFIED BY OWNER / AGENT. REFER TO ADDITIONAL INFORMATION FOR COLOR SELECTION / LOCATIONS.		
T	NEM: INSTALL (N) SEAMLESS DOWNSPOUTS / LEADERS. DRAIN TO (E) RAINWATER COLLECTION SYSTEM.		



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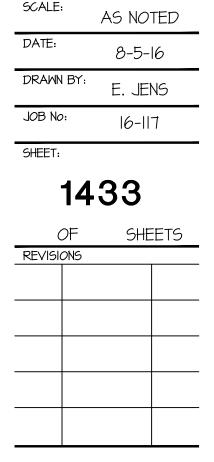
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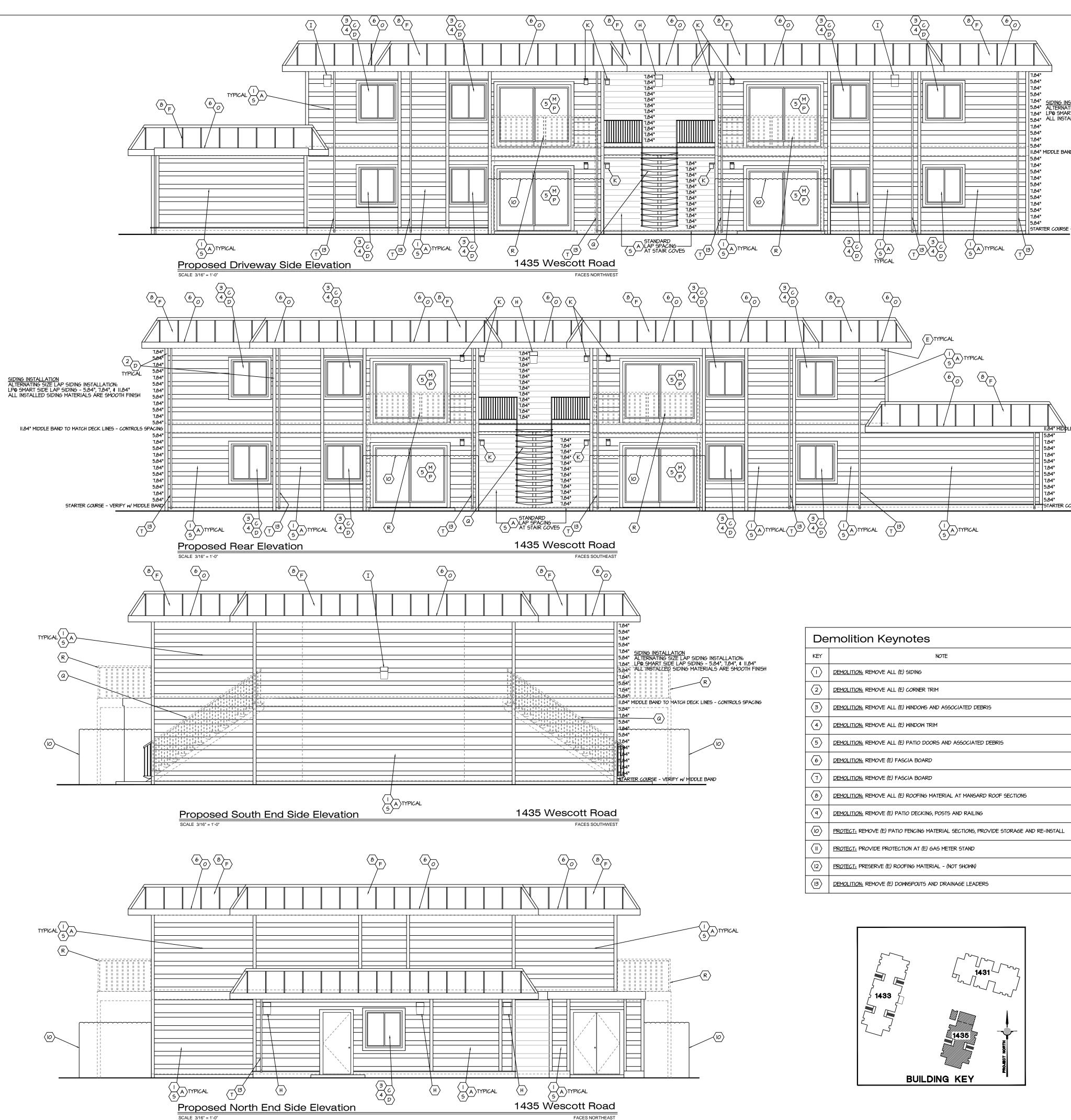
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SIGNATURE





7.84" SIDING INSTALLATION 5.84" ALTERNATING SIZE LAP SIDING INSTALLATION: 7.84" LP© SMART SIDE LAP SIDING - 5.84", 7.84", \$ 11.84" 5.84" ALL INSTALLED SIDING MATERIALS ARE SMOOTH FINISH

STARTER COURSE - VERIFY W/ MIDDLE BAND

II.84" MIDIPLE BAND TO MATCH DECK LINES - CONTROLS SPACING

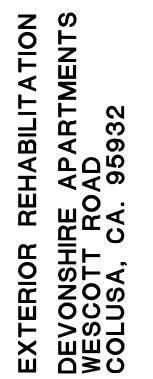
STARTER COURSE - VERIFY W/ MIDDLE BAND

Exterior Elevations Keynotes KEY NOTE NEW: ALTERNATING SIZE LAP SIDING INSTALLATION: LPO SMART SIDE LAP SIDING - 5.84", 7.84", \$ 11.84" ALL INSTALLED SIDING MATERIALS ARE SMOOTH FINISH <u>NEW:</u> INSTALL (N) BALCONY / DECK STRUCTURES BASED ON SUPPLIED ENGINEERING DOCUMENTS. VERSA DECK DRY DECK© DECKING SYSTEM, USE VERSA DECK© RAILING SYSTEM. В <u>NEW:</u> INSTALL (N) MILGARD VINYL WINDOWS - MILGARD STYLE LINE REPLACE ANY DAMAGED WINDOW SILLS AND DAMAGED FRAMING $\langle \circ \rangle$ $\underline{\text{NEW}}$ LP@ SMART SIDE TRIM, 440 SERIES - SMOOTH PAINT TO MATCH SIDING COLOR. COLOR TO BE SPECIFIED BY OWNER $\langle D \rangle$ E INSTALL (N) LP@ SMART TRIM AT SIDING / SOFFIT JOINT NEW: INSTALL (N) METAL ROOFING AT (E) MANGARD ROOF FRAMING. METAL ROOFING SHALL BE METAL SALES® I" MINI-BATTEN 26 Ga. COLOR #44 DARK BROWN, AS SPECIFIED IN ATTACHED SPECIFICATIONS $\langle F \rangle$ 6 EXISTING: STAIRS AND HANDRAILS TO REMAIN IN-PLACE, NO CHANGE. $\langle H \rangle$ REPLACE / INSTALL: LED WALL PACK, 27 watt, 120 VOLT. MFR AS PER SPECIFICATIONS. $\langle I \rangle$ REPLACE / INSTALL: LED WALL PACK, 45 watt, 120-277 VOLT. MFR AS PER SPECIFICATIONS. <u>NEW:</u> INSTALL (N) RECESSED LED CEILING MOUNTED LIGHT FIXTURES. EXTERIOR RATED. SEE ELECTRICAL SPECIFICATIONS. J NEW: INSTALL (N) WALL MOUNTED LED PORCH / PATIO STYLE LIGHT FIXTURE, 9 watt. MFR AS PER SPECIFICATIONS. K NEW: INSTALL (N) CREE® ARE-EDG-5M-DA, 40 LED COUNT, WITH PHOTO CELL OPTION AND DIMMING OPTION. $\langle L \rangle$ INSTALLATION SHALL INCLUDED MOUNTING POLE. MOUNTED ABOVE PARAPET MIN 24". <u>REPLACE / INSTALL:</u> (N) MILGARD VINYL PATIO DOORS. MATCH (E) SIZE. HANDLE AND LOCK. TEMPERED CLEAR GLAZING, SUNCOAT LOW-E. PROVIDE INSECT SCREEN FOR OPERABLE AREA. $\langle M \rangle$ M REPLACE / INSTALL: UNIT DESIGNATION NUMBERS / NUMERALS AS APPROPRIATE NEW: INSTALL WEATHER-RESISTIVE BARRIERS AND CLADDING BENEATH (N) SIDING INSTALLATION. REPAIR $\langle N \rangle$ ANY PUNCTURES OR TEARS IN THE WEATHER-RESISTIVE BARRIER PRIOR TO INSTALLATION OF SIDING $\langle O \rangle$ NEW: INSTALL (N) FASCIA MATERIAL AT ROOF EDGE. COORDINATE WITH METAL ROOFING INSTALLATION

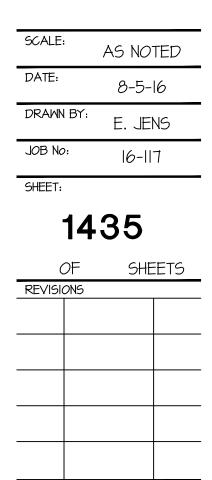
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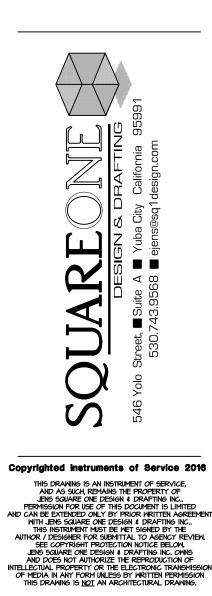
 Q
 EXTENSION OF LIFE: VERIFY WITH OWNERS AGENT TREATMENT OF (E) STAIRS
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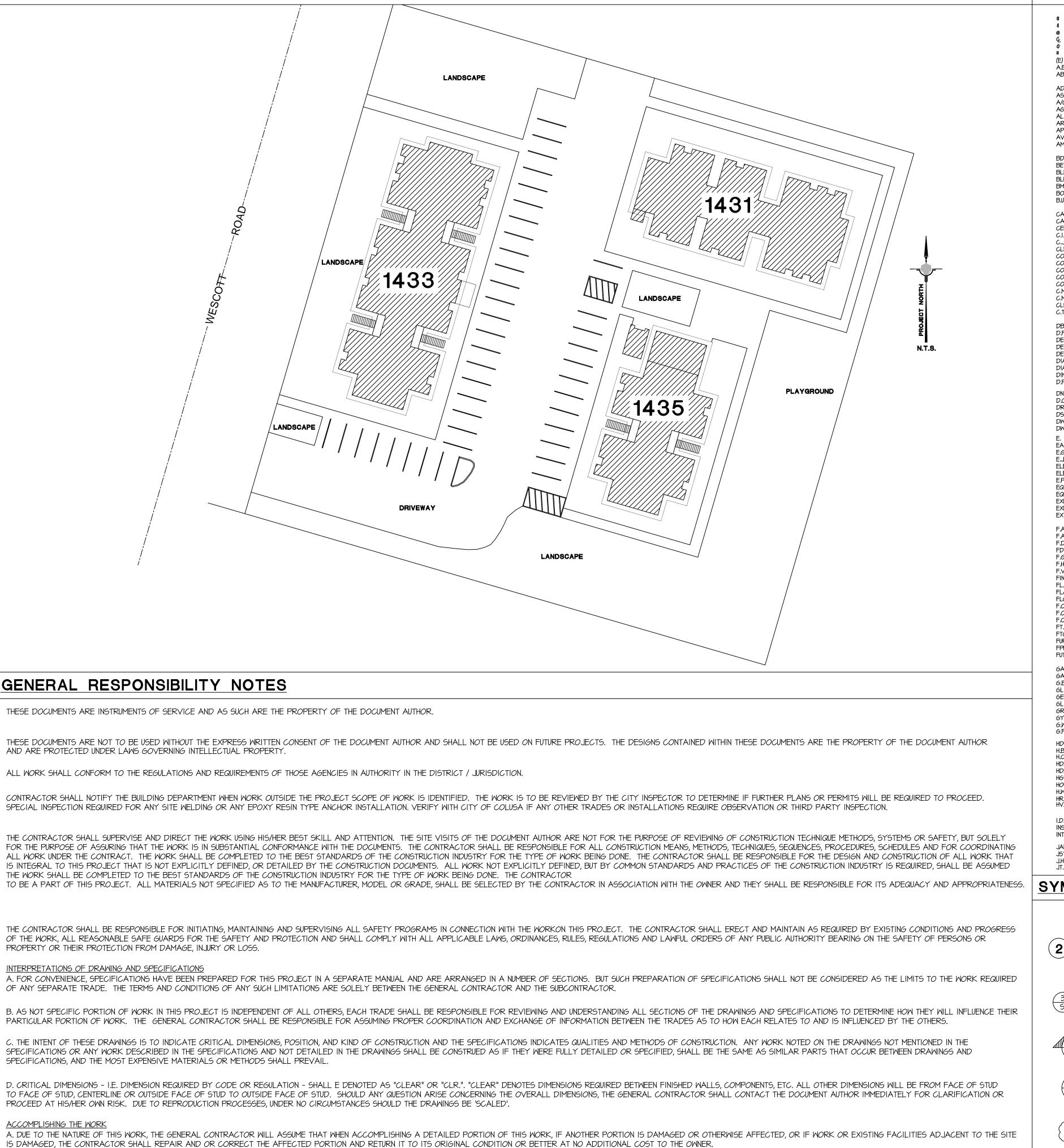
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SIGNATURE







GENERAL RESPONSIBILITY NOTES

THESE DOCUMENTS ARE INSTRUMENTS OF SERVICE AND AS SUCH ARE THE PROPERTY OF THE DOCUMENT AUTHOR.

AND ARE PROTECTED UNDER LAWS GOVERNING INTELLECTUAL PROPERTY.

ALL WORK SHALL CONFORM TO THE REGULATIONS AND REQUIREMENTS OF THOSE AGENCIES IN AUTHORITY IN THE DISTRICT / JURISDICTION.

THE WORK SHALL BE COMPLETED TO THE BEST STANDARDS OF THE CONSTRUCTION INDUSTRY FOR THE TYPE OF WORK BEING DONE. THE CONTRACTOR

INTERPRETATIONS OF DRAWING AND SPECIFICATIONS

SPECIFICATIONS, AND THE MOST EXPENSIVE MATERIALS OR METHODS SHALL PREVAIL.

PROCEED AT HIS/HER OWN RISK. DUE TO REPRODUCTION PROCESSES, UNDER NO CIRCUMSTANCES SHOULD THE DRAWINGS BE 'SCALED'.

IMPORTANT NOTE: THE ABOVE IS IN CONJUNCTION WITH ALL FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS AND LAWS THAT APPLY TO THIS PROJECT.

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≢ ≇ ⊈ ₽ # (E) A.B.	Square Feet (Symb.) And At Center Line Diameter Pound Existing Anchor Bolt	KIT. LAD. LAM. LAV. Ibs. LT. L.L.	KITCHEN LADDER LAMINATE LAVATORY POUNDS LIGHT LIVE LOAD	OWNER & APPLICANT REGIONAL HOUSING AUTHOR SUTTER AND NEVADA COUN ATTN: LARRY TINKER 1455 BUTTE HOUSE ROAD YUBA CITY, CA. 95993	TIES	<u>JURISDICTION</u> CITY OF COLUSA PLANNING & BUILDING DEPARTMENT 425 Webster St. Colusa, Ca 95932 Building Ph. 530.458.4740	RAFTING California 95991 Jesign.com
ABS ADJ. ASPH. A/C AGGR. AL. ARCH.	ACRYLONITRILE- BUTADIENE-STYRENE ADJJSTABLE ASPHALT AIR CONDITIONING AGGREGATE ALUMINUM ARCHITECTURAL	MAX. M.C. MET. MFR. MIN. M.H.	MAXIMUM MEDICINE CABINET METAL MANUFACTURER MINIMUM MANHOLE	OFFICE Ph. 530.671.0220 e-mail: I.tinker@rhasnc.org	EXT. 130	e-mail: buildinginspections@cityofcolusa.com	A Tuba City BB Tuba City
APPROX. AVG. AMP. BD. BET. BLDG. BLK.	APPROXIMATE AVERAGE AMPERE BOARD BETWEEN BUILDING BLOCK	MISC. MIR. MUL. M.O. M.Z.U. (N) N.	MISCELLANEOUS MIRROR MULLION MASONRY OPENING MULTI-ZONE UNIT NEW NORTH	DOCUMENT AUTHOR SQUAREONE DESIGN & DRAI ERIK JENS 546 YOLO STREET, SUITE 'A YUBA CITY, CA. 95991		<u>OWNERS AGENT</u> REGIONAL HOUSING AUTHORITY OF SUTTER AND NEVADA COUNTIES ATTN: LARRY TINKER 1455 BUTTE HOUSE ROAD	olo Street, Sa0.743.956
BM, BOT. BJJ.R. CAB. CASE. CEM. C.I.	BEAM BOTTOM BUILT UP ROOF CABINET CASEMENT CEMENT CAST IRON	N.I.C. N/A N.T.S. No. O.A. OBS. O.C.	NOT IN CONTRACT NOT APPLICABLE NOT TO SCALE NUMBER OVER ALL OBSCURE ON CENTER	Ph. 530.743.9568 e-mail: ejens@sqldesign.c FOR ADDITIONAL INFORM		YUBA CITY, CA. 95993 OFFICE Ph. 530.671.0220 EXT. 130 e-mail: I.tinker@rhasnc.org EASE CONTACT THE APPROPRIATE OFFICE	Copyrighted Instruments of Service 2016
C.J. CLNG. COL. COMPO. CONC.	CONSTRUCTION JOINT CEILING COLUMN COMPOSITION CONCRETE	O.D. OH. OPG. OPP. OFF.	OUTSIDE DIAMETER Overhead Opening Opposite Office	SHEET NO. DR			THIS DRAMING IS AN INSTRUMENT OF SERVICE, AND AS SUCH, REMAINS THE PROPERTY OF JENS SQUARE ONE DESIGN & DRAFTING INC PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY PRIOR WRITTEN AREEMENT WITH JENS SQUARE ONE DESIGN & DRAFTING INC THIS INSTRUMENT MUST BE WET SIGNED BY THE AUTHOR / DESIGNER FOR SUBMITTAL TO AGENCY REVIEW. SEE COPYRIGHT PROTECTION NOTICE BELON. JENS SQUARE ONE DESIGN & DRAFTING INC
CONT. CONTR. C.M.J. C.I.R. C.T. DBL. DEBL. DEG. DET. DEPT.	CONTINUOUS CONTRACTOR CERAMIC MOSAIC TILE CONCRETE MASONRY U CLEAR CERAMIC TILE DOUBLE DOUBLE DOUGLAS FIR DEGREE DETAIL DEPARTMENT	NIT P.C.P. PNT. PT. P.T.D.F. PWD. Q.T.	PERFORATED PLATE PORTLAND CEMENT P. PAINT POINT PRESSURE TREATED DOUGLAS FIR PLYWOOD QUARRY TILE	CI I CC I43I 2 PR I433 3 PR I435 4 PR GB.I 5 NC GB.2 6 NC	AND DOES NOT AUTHORIZE THE REPRODUCTION OF INTELLECTUAL PROPERTY OR THE ELECTRONIC TRANSINGSION OF MEDIA IN ANY FORM UNLESS BY WRITTEN PERMISSION THIS DRAWING IS <u>NOT</u> AN ARCHITECTURAL DRAWING.		
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DNO. DWV E. E.G. E.J. ELEC. ELEV.	DRAIN, WASTE & VENT EAST EACH EXISTING GRADE EXPANSION JOINT ELECTRIC ELEVATION	RMD. R.W.L. S. S.C. SECT. SHELV. SHT.	REDWOOD RAIN WATER LEADER SOUTH SOLID CORE SECTION SHELVING SHEET		R FACADE OF APARTMEN		
E.P. EQ. EQUIP. EXP. EXPD. EXT. F.A. F.A.J.	ELECTRIC PANEL EQUAL EQUIPMENT EXPANSION EXPOSED EXTERIOR FIRE ALARM FORCED AIR UNIT	SIM. SH SL S.P. S&P SQ. S.ST. STL.	SIMILAR SINGLE HUNG SLIDING STRUCTURAL PLYWD. SHELF AND POLE SQUARE STAINLESS STEEL STEEL				
F.D. FDN. F.G. F.H. F.V. FIN. FL. FLASH.	FLOOR DRAIN FOUNDATION FINISH GRADE FIRE HYDRANT FIELD VERIFY FINISH FLOOR FLASHING	STD. STOR. STRUCT. SUSP. SYM. SHWR. T. T.C.	STANDARD STORAGE STRUCTURAL SUSPENDED SYMMETRICAL SHOWER TOILET TOP OF CURB				
FLOUR. F.O.C. F.O.F. FT. FTG. FUR. FVRF. FUT.	FLUORESCENT FACE OF CONCRETE FACE OF FINISH FACE OF STUD FOOT FOOTING FURRING FIRE PROOF FUTURE	T.O.C. TEL. T.O.G. THRS. T&G TKBD. TV. TEMP. TER	TOP OF CONCRETE TELEPHONE TOP OF GRADE THRESHOLD TONGUE AND GROOVE TACK BOARD TELEVISION TEMPERED TERRAZZO				
GA. GALV. G.B. GL.BLK. GEN. GL. GR.	GAUGE GALVANIZED GRAB BAR GLASS BLOCK GENERAL GLASS GRADE	т.о.м. ТНК. U. U.O.N.	TERRAZZO TOP OF WALL THICKNESS URINAL UNLESS OTHERWISE NOTED				MENTS
GYP. G.W.B. G.F.I. HDR. H.B. H.C. HDWD. HDWE.	GYPSUM GYPSUM WALLBOARD GROUND FAULT INTERRI HEADER HOSE BIB HOLLOW CORE HARDWOOD HARDWARE	V.T. VERT. V.F. VIN. V.B. W.	VINYL TILE VERTICAL VINYL FABRIC VINYL VAPOR BARRIER WEST				ABILI PART 5932 5932
HDAL. HGT. HORIZ. HW.H. HR. HVAC I.D. INSUL. INT. JAN. JST. J.H.	HEIGHT HORIZONTAL HOT WATER HEATER HOUR HEATING, VENTING & AIR CONDITIONING INSIDE DIAMETER INSULATION INTERIOR JANITOR JOIST JOIST HANGER	W W.C. WD. W.M.M. WO WP. WSCT. W/S	WITH WATER CLOSET WOOD WELDED WIRE MESH WITHOUT WATERPROOFING WAINSCOT WEATHER-STRIPPING				XTERIOR REH EVONSHIRE A ESCOTT ROAI OLUSA, CA. 9
SYMB	JOINT			BUILDING COD	E COMPLIANC	<u>E</u>	
	A			I. 2013 CALIFORNIA RESIDENTI	AL CODE (CRC) AND ALL PARTS TH	DLLOWING CODES, IN ORDER OF PRIORITY; EREIN WHICH HAVE PRECEDENCE OVER THE FOLLOWING;	
2 DIMENSIONAL GRID LINE HORIZONTAL (NUMBERS) VERTICAL (LETTERS) (LETTERS MAY NOT BE USED - PLAN SPECIFIC)		 2. 2013 CALIFORNIA MECHANICAL CODE (CMC). 3. 2013 CALIFORNIA PLUMBING CODE (CPC). 4. 2013 CALIFORNIA ELECTRICAL CODE (CEC. 5. 2013 CALIFORNIA ENERGY CODE & CALIFORNIA ENERGY COMMISSION STANDARDS (CECS). 			SCALE: AS NOTED DATE: 8-5-16 DRAWN BY: E. JENS		
3 SI DETAIL NUMBER DIRECTION SHEET SHOWN ON			 6. 2013 CALIFORNIA EXISTING BUILDING CODE. 7. 2013 CALIFORNIA FIRE CODE (CFC). 8. 2013 CALIFORNIA BUILDING CODE (CBC) ONLY IF DIRECTED TO REFERENCE (CRC RI.I.T.3.I.) 9. AND ALL OTHER STATE OR LOCAL COUNTY REQUIREMENTS AND STIPULATIONS, & ORDINANCES. THIS APPLIES TO ALL SHEETS THROUGHOUT PLAN. 			JOB NO: 16-117 SHEET:	
AA S2	SHEET	SECTION TSHOWN ON		BLDG. TABLE			OF SHEETS
BB 52) SHEET	IAL SECTION T SHOWN ON GION AND/OR		 (E) FRAMED ROOF STRUCTURE (E) EXTERIOR WALL STUDS - 2x4 # (E) INTERIOR WALL STUDS - 2x4 S FRAMING LUMBER #2 BTR. CONCRETE - 3000 PSI 5 SACK GRADE 40 RE-BAR 		TE BASED ON <u>2013 C.R.C.</u> OCCUPANCY <u>R</u> No. OF STORIES <u>TWO STORY</u> SOIL BEARING PRESSURE <u>1500#</u> SOIL SITE CLASSIFICATION <u>D</u>	
$\langle \dots \rangle$	EXPL	ANATION		HARDWARE - SIMPSON		SEISMIC DESIGN CATAGORY D	

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BUILDING TYPE

WIND SPEED_

2013 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1

INSPECTOR SIGNOFF	CHAPTER 3	INSPECTOR SIGNOFF	5.106.4.2 Bicycle parking. [DSA-SS] For public schools and 5.106.4.2.2	and community colleges, comply with Sections 5.106.4.2.1
	GREEN BUILDING SECTION 301 GENERAL		5.106.4.2.1 Short-term bicycle parking . Provide student entrance, readily visible to passers-by, for occupant load of the campus, with a minimum of o	permanently anchored bicycle racks within 200 feet of the 5 percent of the student population based on the total ne two-bike capacity rack.
	 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC] The provisions of individual participant of Chapter 5 and to a participant building additional of 1,000 square for the section. 		total number of motorized vehicle parking capacity Acceptable bicycle parking facilities shall be conve one of the following: 1. Covered, lockable enclosures with perma 2. Lockable bicycle rooms with permanently	anchored racks; or
	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 permitted work.		 Lockable, permanently anchored bicycle I 5.106.5.2 DESIGNATED PARKING. In new projects of parking spaces, provide designated parking for any convehicles as follows: 	
	A code section will be designated by a banner to indicate where the code section only applies to newly constructed building [N] or to additions and alterations [AA]. When the code section applies to both, no banner will be used.		TABLE 5.106.5.2 – PARKING	<u>`</u>
	SECTION 302 MIXED OCCUPANCY BUILDINGS		TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
	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.		0-9	0
	ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development BSC California Building Standards Commission		25–50	3
	DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development LR Low Rise		51-75 76-100	6 8
	HR High Rise AA Additions and Alterations		101-150	11
			151-200 201 AND OVER	16 AT LEAST 8% OF TOTAL
	NONRESIDENTIAL MANDATORY MEASURES DIVISION 5.1 PLANNING AND DESIGN SECTION 5.101 GENERAL		5.106.5.2.1 - Parking stall marking. Paint, i striping, the following characters such word aligns with the end of the stall striptic vehicle:	hat the lower edge of the last
	5.101.1 Scope 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			ehicle stickers from expired HOV eligible for designated parking
	respect the integrity of adjacent properties. SECTION 5.102 DEFINITIONS 5.102.1 DEFINITIONS		spaces. 5.106.8 LIGHT POLLUTION REDUCTION. [N] Outdoor	lighting systems shall be designed and
	The following terms are defined in Chapter 2 <i>(and are included here for reference)</i> 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.		as defined in Chapter 10 of the California 2. Backlight, Uplight and Glare (BUG) r 3. Allowable BUG ratings not exceeding	atings as defined in IES TM-15-11; and
	LOW-EMITTING AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following: 1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code		Exceptions: [N] 1. Luminaires that qualify as exception Code. 2. Emergency lighting.	s in Section 147 of the California Energy
	section 43800 and CCR, Title 13, Sections 1961 and 1962. 2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles. NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of		 Note: [N] See also California Building Code, campus lighting requirements for parking f 5.106.10 GRADING AND PAVING. Construction plan drainage system will manage all surface was building. 	acilities and walkways. s shall indicate how site grading or a
	"low-speed vehicle" 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. TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers		to, the following: 1. Swales. 2. Water collection and disposal system 3. French drains.	
	and other transient visitors. 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		 4. Water retention gardens. 5. Other water measures which keep sigroundwater recharge. Exception: Additions and alterations no 	urface water away from buildings and aid in t altering the drainage path.
	work—related transportation of adults for the purpose of ridesharing. Note: Source: Vehicle Code, Division 1, Section 668		DIVISION 5.2 ENERGY EFFICIE SECTION 5.201 GENERAL 5.201.1 Scope. For the purposes of mandatory e	
	 ZEV. Any vehicle certified to zero-emission standards. SECTION 5.106 SITE DEVELOPMENT 5.106.1 STORM WATER POLLUTION PREVENTION. Newly constructed projects and additions which disturb less than one acre of land shall prevent the pollution of storm water runoff 		California Energy Commission will continue to	adopt mandatory building standards.
	from the construction 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 ordinance.		5.301.1 Scope. The provisions of this chapter sh use indoors, outdoors and in wastewater conv SECTION 5.302 DEFINITIONS 5.302.1 Definitions. The following terms are define	eyance.
	 5.106.1.2 Best Management Practices (BMP). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP. 1. Soil loss BMP that should be considered for each project include, but are not limited to, the following: a. Scheduling construction activity. b. Preservation of natural features, vegetation and soil. c. Drainage swales or lined ditches to control stormwater flow. 		GRAYWATER. Pursuant to Health and Safety Ca untreated wastewater that has not been conta been affected by infectious, contaminated, or present a threat from contamination by unhea wastes. "Graywater" includes, but is not limit bathroom washbasins, clothes washing machine waste water from kitchen sinks or dishwashers	ode Section 17922.12, "graywater" means aminated by any toilet discharge, has not unhealthy bodily wastes, and does not althful processing, manufacturing, or operating ed to wastewater from bathtubs, showers, es and laundry tubs, but does not include
	 d. Mulching or hydroseeding to stabilize disturbed soils. e. Erosion control to protect slopes. f. Protection of storm drain inlets (gravel bags or catch basin inserts). g. Perimeter sediment control (perimeter silt fence, fiber rolls). h. Sediment trap or sediment basin to retain sediment on site. i. Stabilized construction exits. 		MODEL WATER EFFICIENT LANDSCAPE ORDINANCE landscape design, installation and maintenance multifamily and other developer installed lands irrigation water budget developed based on lar	practices that will ensure commercial, capes greater than 2500 square feet meet ar
	 j. Wind erosion control. k. Other soil loss BMP acceptable to the enforcing agency. 2. Good housekeeping BMP to manage construction equipment, materials and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following: 		MODEL WATER EFFICIENT LANDSCAPE ORDINANCE 9California Code of Regulations, Title 23, Divis design, installation and maintenance practices. updated MWELO, or adopt a local ordinance at	on 2, Chapter 2.7), regulating landscape Local agencies are required to adopt the
	 a. Material handling and waste management. b. Building materials stockpile management. c. Management of washout areas (concrete, paints, stucco, etc.). d. Control of vehicle/equipment fueling to contractor's staging area. e. Vehicle and equipment cleaning performed off site. 		POTABLE WATER. Water that is drinkable and m Agency (EPA) Drinking Water Standards. See o 5.	efinition in the California Plumbing Code, Part
	f. Spill prevention and control. g. Other housekeeping BMP acceptable to the enforcing agency.		POTABLE WATER. [HCD] Water that is satisfact puroses, and meets the U.S. Environmental Pr Standards and the requirements of the Health RECYCLED WATER. Water which, as a result of	otection Agency (EPA) Drinking Water Authority Having Jurisdiction. treatment of waste, is suitable for a direct
	5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2		beneficial use or a controlled use that would 13050 (n)]. Simply put, recycled water is wate quality that is suitable to use the water again	r treated to remove waste matter attaining c
	 5.106.4.1 Bicycle parking. [BSC] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter. 5.106.4.1.1 Short-term bicycle parking. [BSC] If the project or an addition or alteration is anticipated to 		SUBMETER. A meter installed subordinate to a intended for one purpose, such as landscape dedicated meter may be considered a submet	rrigation. For the purposes of CALGreen, a er.
	generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack. Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.		WATER BUDGET. Is the estimated total landsca the maximum applied water allowance calculat Water Resources Model Efficient Landscape Ord SECTION 5.303 INDOOR WATER US	ed in accordance with the Department of Jinance (MWELO). SE
	5.106.4.1.2 Long-term bicycle parking. For new buildings with over 10 tenant-occupants or for additions or alterations that add 10 or more tenant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicle parking spaces being added, with a minimum of one space. Acceptable parking facilities shall be convenient from the street and shall meet one of the following:		 5.303.1 METERS. Separate submeters or meteri described in Sections 503.1.1 and 503.1.2. 5.303.1.1 Buildings in excess of 50,000 squ 	ng devices shall be installed for the uses
	 shall be convenient from the street and shall meet one of the following: Covered, lockable enclosures with permanently anchored racks for bicycles; Lockable bicycle rooms with permanently anchored racks; or Lockable, permanently anchored bicycle lockers. Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates. 		follows: 1. For each individual leased, rented or o	ther tenant space within the building projected y (380 L/day), including, but not limited to, arant or food service, medical or dental er shop. building tenants are unfeasible, for water
			a. Makeup water for cooling towers whe L/s). b. Makeup water for evaporative coolers	ere flow through is greater than 500 gpm (30

SIGNOFF

shown in Table 5.303.2.3

106.5.2 – PARKING

IBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
25-50	3
51-75	6
76–100	8
101–150	11
151-200	16
201 AND OVER	AT LEAST 8% OF TOTAL

ing stall marking. Paint, in the paint used for stall

itions and alterations not altering the drainage path. ENERGY EFFICIENCY

WATER EFFICIENCY AND CONSERVATION

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

Exception: Building that calculation demonstratin established in Table 5.31	g a 20% reduction ir	the building	se reduction. "water use bo	In this case, a oseline," as		
5.303.2.1 Areas of addition or alteration.For those occupancies within the authority of California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.2 and Section 5.303.3 shall apply to new fixtures in additions or areas of alteration to the building.						
5.303.3 WATER CONSERVING PL and urinals) and fittings	LUMBING FIXTURES ANI (faucets and showe	D FITTINGS. PI rheads) shall	umbing fixture comply with t	es (water closets he following:		
5.303.3.1 Water Closets. T 1.28 gallons per flush. criteria of the U.S. EPA	Tank-type water clo	sets shall be	certified to th			
Note: The effective average flush volume of	flush volume of dual two reduced			the composite,		
5.303.3.2 Urinals. The eff flush.	ective flush volume o	of urinals shal	I not exceed	0.5 gallons per		
5.303.3.3 Showerheads. 5.303.3.3.1 Single show more than 2.0 gc the performance criteria	erhead. Showerheads s illons per minute at of the U.S. EPA	80 psi. Show	erheads shall	be certified to		
than one showerhead, shower outlets controlled at 80 psi, or the showe be in operation at a tin	5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more					
 5.303.4 WASTEWATER REDUCT one of the following me [BSC, DSA-SS] The meeting the criteria est 2. [BSC] Utilizing non- municipally treated wast California Plumbing Code 5.303.6 STANDARDS FOR PLUM be installed in accordan applicable standards refr. Chapter 6 of this code. 	thods: installation of water- ablished in sections -potable water syster ewater (recycled wate or other methods of BING FIXTURES AND FIT ce with the Californic	-conserving fix 5.303.2 or 5.3 ns [captured er) complying described in S T TINGS. Plumb p Plumbing Co	ctures (water 303.3. rainwater, gra with the curr ection A5.304 bing fixtures a ide, and shall	closets, urinals) ywater, and ent edition of the .8. nd fittings shall meet the		
TABLE 5.303.2.2 -	WATER USE BA	SELINE3				
FIXTURE TYPE	FLOW RATE ₂	DURATION	DAILY USES	OCCUPANTS ₂		
SHOWER HEADS	2.0 GPM @ 80 PSI	5 MIN.	1	X2a		
LAVATORY FAUCETS (NON-RESIDENTIAL)	0.5 GPM @ 60 PSI	.25 MIN.	3	х		
KITCHEN FAUCETS	2.2 GPM @ 60 PSI	4 MIN.	1	Х2ь		
REPLACEMENT AERATORS	2.2 GPM @ 60 PSI			Х		
WASH FOUNTAINS	2.2 [RIM SPACE (IN.)/20 GPM@60 PSI]			X		
METERING FAUCETS	0.25 GAL/CYCLE	0.25 MIN.	3	Х		
METERING FAUCETS FOR WASH FOUNTAINS	.25 [RIM SPACE (IN.)/20 GPM©60 PSI]	0.25 MIN.		х		
GRAVITY TANK WATER			1 MALE1,	v		

5.303.2 WATER REDUCTION Plumbing fixtures shall meet the maximum flow rate values

Exception: Building that demonstrate 20% overall water use reduction. In this case, a

	PSI			
GRAVITY TANK WATER CLOSET	1.28 GAL/FLUSH	1 FLUSH	1 MALE1, 3 FEMALE	Х
FLUSHOMETER TANK WATER CLOSET	1.28 GAL/FLUSH	1 FLUSH	1 MALE1, 3 FEMALE	Х
FLUSHOMETER VALVE WATER CLOSET	1.28 GAL/FLUSH	1 FLUSH	1 MALE1, 3 FEMALE	Х
ELECTROMECHANICAL HYDRAULIC WATER CLOSET	1.28 GAL/FLUSH	1 FLUSH	1 MALE1, 3 FEMALE	×
URINALS	0.5 GAL/FLUSH	1 FLUSH	2 MALE	Х

FIXTURE "WATER USE" = FLOW RATE X DURATION X OCCUPANTS X DAILY USES . THE DAILY USE NUMBER SHALL BE INCREASED TO THREE IF URINALS ARE NOT INSTALLED IN THE ROOM.

REFER TO TABLE A, CHAPTER 4, CALIF. PLUMBING CODE, FOR OCCUPANT LOAD ACTORS. a. SHOWER USE BY OCCUPANTS DEPENDS ON THE TYPE OF FACTORS. USE OF A BUILDING OR PORTION OF A BUILDING, E.G., TOTAL OCCUPANT LOAD FOR A HEALTH CLUB, BUT ONLY A FRACTION OF THE OCCUPANTS IN AN OFFICE BUILDING AS DETERMINED BY THE ANTICIPATED NUMBER OF USERS b. NONRESIDENTIAL KITCHEN FAUCET USE IS DETERMINED BY THE OCCUPANT LOAD OF THE AREA SERVED BY THE FIXTURE.

3. USE WORKSHEET WS-1 TO CALCULATE BASELINE WATER USE.

TABLE 5.303.2.3 -	FIXTURE FLOW RATES
FIXTURE TYPE	MAX. FLOW RATE @ 20% REDUCTION
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
WASH FOUNTAINS	1.8 [RIM SPACE (IN.)/20 GPM @ 60 PSI]
METERING FAUCETS	0.20 GALLONS/CYCLE
METERING FAUCETS FOR WASH FOUNTAINS	.20 [RIM SPACE (IN.)/20 GPM @ 60 PSI]

SECTION 5.304 OUTDOOR WATER USE

5.304.1 WATER BUDGET. A water budget shall be developed for landscape irrigation use that installed in conjunction with a new building or an addition or alteration conforms to the local water efficient landscape ordinance or to the California Department of Water Resources Water Efficient Landscape Ordinance where no local ordinance is applicable.

Note: Prescriptive measures to assist in compliance with the water budget are listed through 492.8, 492.10 and 492.11 of the ordinance, which in Sections 492.5 may be found at:

http://www.water.ca.gov/wateruseefficiency/docs/WaterOrdSec492.cfm

5.304.2 OUTDOOR POTABLE WATER USE. For new water service or for addition or alteration requiring upgraded water service for landscaped areas of at least 1,000 square feet but not more than 5,000 square feet (the level at which Water Code §535 applies), separate submeters or metering devices shall be installed for outdoor potable water use.

5.304.3 IRRIGATION DESIGN. In new nonresidential construction with at least 1,000 but not more than 2,500 square feet of cumulative landscaped area (the level at which the MWELO applies), install irrigation controllers and sensors which include the following criteria, and meet manufacturer's recommendations.

5.304.3.1 Irrigation controllers. Automatic irrigation system controllers installed at the time of final inspection shall comply with the following:

1. Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants'needs as weather conditions change. 2. Weather-based controllers without integral rain sensors or communication systems

that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.

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

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY SECTION 5.401 GENERAL

INSPECTOR

SIGNOFF

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting. SECTION 5.402 DEFINITIONS

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

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

TEST. A procedure to determine quantitative performance of a system or equipment SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2 (Weather Protection) and California Energy Code Section 150, (Mandatory Features and Devices), manufacturer's installation instructions or local ordinance, whichever is more stringent

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods. 5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

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 such openings plus at least one of the following: An installed awning at least 4 feet in depth.

. The door is protected by a roof overhang at least 4 feet in depth. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane. SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 50% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that: 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient 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 bulk mixed (single stream). 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

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

Exceptions to Sections 5.408.1.1 and 5.408.1.2: Excavated soil and land-clearing debris.

2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of loacl recycleing facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 50% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the waste management plan. 2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. [BSC] 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

1. If contamination by disease or pest infestation is suspected, contact the County Aaricultural Commissioner and follow its direction for recycling or disposal of the material. 2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

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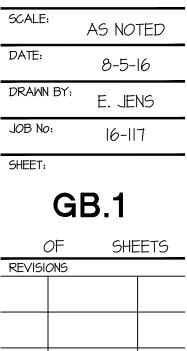
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2013 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 2

INSPECTOR SIGNOFF	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	INSPECTOR SIGNOFF		Procedures. urer's specifi
	design phase of the project begins. This documentation shall include the following: 1. Environmental and sustainability goals. 2. Energy efficiency goals [refer to 2013 California Energy Code, Section 120.8(b)]. 3. Indoor environmental quality requirements.		5.410.4.3 space-co	.1 HVAC balc anditioning sy
	 Project program, including facility functions and hours of operation, and need for after hours operation. Equipment and systems expectations. 		Adjusting Bureau P	hall be balar and Balanci rocedural Sto by the enfo
	6. Building occupant and operation and maintenance (0&M) personnel expectations. 5.410.2.2 Basis of Design (BOD). [A] 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.			Reporting.
	The Basis of Design document shall cover the following systems: 1. Heating, ventilation, air conditioning (HVAC) systems and controls [refer to 2013 California Energy Code, Section 120.8(c)].		represent	Operation a ative with
	 Indoor lighting system and controls [refer to 2013 California Energy Code, Section 120.8(c)]. Water heating system [refer to 2013 California Energy Code, Section 120.8(c)]. Renewable energy systems. 		ŎSHA rec	s/warranties quirements in
	5. Landscape irrigation systems. 6. Water reuse systems.		5.410.4.5 required	.1 Inspections by the e
	 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: General project information. 			
	 Commissioning goals. Systems to be commissioned. Plans to test systems and components shall include: 			TABLE 5 Less Water
	a. An explanation of the original design intent. 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.			ARCHITECT
	e. Measurable criteria for acceptable performance. 4. Commissioning team information. 5. Commissioning process activities, schedules and responsibilities. Plans for the			CARPET P
	completion of commissioning shall be included. 5.410.2.4 Functional performance testing. [A] Functional performance tests shall demonstrate the correct installation and operation of each component, system and			WOOD FLO
	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			SUBFLOOR CERAMIC T
	adjustments made. DIVISION 5.5 ENVIRONMENTAL QUALITY			VCT & ASI
	 SECTION 5.501 GENERAL 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. 			COVE BASI MULTIPURP
	SECTION 5.502 DEFINITIONS 5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for			STRUCTUR
	<i>reference)</i> COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day—night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent			OTHER ADI LISTED
	continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.			PVC WELDI
	COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or finger-jointed			CPVC WELI ABS WELDI PLASTIC C
	lumber, all as specified in California Ćode of Regulations (CCR), Title 17, Section 93120.1(a). Note: See CCR, Title 17, Section 93120.1.			ADHESIVE
	MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999. REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted,			SPECIAL P
	to contribute to ozone formation in the troposphere. VOC. A volatile organic compound broadly defined as a chemical compound based on			TOP & TRI
	carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a). Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB,			METAL TO
	etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question. SECTION 5.503 FIREPLACES			POROUS M
	5.503.1 GENERAL. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves,			FIBERGLAS
	pellet stoves and fireplaces shall comply with applicable local ordinances. 5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA Phase II emission limits where applicable.			1. IF AN A TOGETHER, BE ALLOWE
	5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Train are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regula(ï@@8), Title 8, Section 5142, and other related regulations.	ng		2. FOR A MEASURE SOUTH CO www.arb.co
	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. Site contact information. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events 			TABLE 5
	log. 4. Major systems. 5. Site equipment inventory and maintenance notes.			Less Water
	 6. A copy of verifications required by the enforcing agency or this code. 7. Other resources and documentation, if applicable. 			ARCHITECT MARINE DE
	5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following: 1. System/equipment overview (what it is, what it does and with what other			NONMEMBR ROADWAY
	systems and/or equipment overview (what it is, what it does and with what other 2. Review and demonstration of servicing/preventive maintenance. 3. Review of the information in the Systems Manual.			SINGLE-PL OTHER
	 Review of the record drawings on the system/equipment. 5.410.2.6 Commissioning report. A report of commissioning process activities undertaken 			SEALANT P
	through the design, construction phases of the building project shall be completed and provided to the owner or representative.			
	Note: Guidance on implementation and enforcement of commissioning requirements, including sample compliance forms and templates, may be found in Appendix A6, Division A6.1, of this code.			MODIFIED E
	5.410.4 TESTING AND ADJUSTING. Testing and adjusting of systems shall be required for buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.			OTHER NOTE: FC MEASURE
	5.410.4.2 SystemsDevelop 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:			SOUTH CO
	 HVAC systems and controls. Indoor and outdoor lighting and controls. Water heating systems. 			
	4. Renewable energy systems. 5. Landscape irrigation systems. 6. Water reuse systems.			

cedures. Perform testing and adjusting procedures in accordance with r's specifications and applicable standards on each system.

VAC balancing. In addition to testing and adjusting, before a new ioning system serving a building or space is operated for normal use, the be balanced in accordance with the procedures defined by the Testing Balancing Bureau National Standards; the National Environmental Balancing edural Standards; Associated Air Balance Council National Standards or as [,] the enforcing agency.

orting. After completion of testing, adjusting and balancing, provide a final sting signed by the individual responsible for performing these services. eration and maintenance (O & M) manual. Provide the building owner or with detailed operating and maintenance instructions and copies of arranties for each system. O & M instructions shall be consistent with ments in CCR, Title 8, Section 5142, and other related regulations. spections and reports. Include a copy of all inspection verifications and report by the enforcing agency.

ABLE 5.504.4.1 – ADHESIVE VOC LIMIT1,2			
ess Water and Less Exempt Compounds in Grams per Liter			
RCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT		
IDOOR CARPET ADHESIVES	50		
ARPET PAD ADHESIVES	50		
UTDOOR CARPET ADHESIVES	150		
OOD FLOORING ADHESIVES	100		
UBBER FLOOR ADHESIVES	60		
JBFLOOR ADHESIVES	50		
ERAMIC TILE ADHESIVES	65		
CT & ASPHALT TILE ADHESIVES	50		
RYWALL & PANEL ADHESIVES	50		
OVE BASE ADHESIVES	50		
ULTIPURPOSE CONSTRUCTION ADHESIVES	70		
TRUCTURAL GLAZING ADHESIVES	100		
NGLE-PLY ROOF MEMBRANE ADHESIVES	250		
THER ADHESIVES NOT SPECIFICALLY STED	50		
PECIALTY APPLICATIONS			
VC WELDING	510		
PVC WELDING	490		
BS WELDING	325		
LASTIC CEMENT WELDING	250		
DHESIVE PRIMER FOR PLASTIC	550		
ONTACT ADHESIVE	80		
PECIAL PURPOSE CONTACT ADHESIVE	250		
TRUCTURAL WOOD MEMBER ADHESIVE	140		
OP & TRIM ADHESIVE	250		
UBSTRATE SPECIFIC APPLICATIONS			
ETAL TO METAL	30		
LASTIC FOAMS	50		
OROUS MATERIAL (EXCEPT WOOD)	50		
OOD	30		
BERGLASS	80		

IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES DGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL ALLOWED.

FOR ADDITIONAL INFORMATION REGARDING METHODS TO EASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE OUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, ww.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 – SEALANT VOC LIMIT				
ess Water and Less Exempt Compounds in Grams per Liter				
SEALANTS	CURRENT VOC LIMIT			
ARCHITECTURAL	250			
MARINE DECK	760			
NONMEMBRANE ROOF	300			
ROADWAY	250			
SINGLE-PLY ROOF MEMBRANE	450			
OTHER	420			
SEALANT PRIMERS				
ARCHITECTURAL				
NONPOROUS	250			
POROUS	775			
MODIFIED BITUMINOUS	500			
MARINE DECK	760			
OTHER	750			

TE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO ASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE OUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

INSPECTOR SECTION 5.504 POLLUTANT CONTROL SIGNOFF

5.504.1.3 Temporary ventilation. The permanent HVAC system shall only be used during construction if 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.

INSPECTOR

SIGNOFF

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation, or during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may collect in the system.

5.504.4 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.4.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards: 1. Adhesives, adhesive bonding primers adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products quality management district rules where products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

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

THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008.

MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat—High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VÓC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS		
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION		
PRODUCT	CURRENT LIMIT	
HARDWOOD PLYWOOD VENEER CORE	0.05	
HARDWOOD PLYWOOD COMPOSITE CORE	0.05	
PARTICLE BOARD	0.09	
MEDIUM DENSITY FIBERBOARD	0.11	
THIN MEDIUM DENSITY FIBERBOARD2	0.13	
1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR		

RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: Manufacturer's product specification

Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements: 1. Carpet and Rug Institute's Green Label Plus Program.

2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350). 3. NSF/ANSI 140 at the Gold level or higher;

4. Scientific Certifications Systems Sustainable Choice; or

5. Compliant with the California Collaborative for High Performance Schools (CA-CHPS) Criteria Interpretation for EQ 2.2 dated July 2012 and listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet requirements of the Carpet and Rug Institute Green Label program. the

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following: 1. Product certifications and specifications.

2. Chain of custody certifications.

3. Product labeled and invoiced as meeting the Composite Wood Products ulation (see CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of regulation (see the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards. 5. Other methods acceptable to the enforcing agency.

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following: 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; 2. Compliant with the VOC-emission limits and testing requirements specified in the California _____ Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010; 3. Compliant with the California Collaborative for High Performance Schools (CA-CHPS)[·] Criteria Interpretation for EQ 2.2 dated July 2012 and listed in the CHPS High Performance Product Database; or

4. Compliant with CDPH criteria as certified under the Greenguard Children's & Schools Program.

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits. 5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of

the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 8. MERV 8 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual. Exceptions:

1. An ASHRAE 10% to 15% efficiency filter shall be permitted for an HVAC unit California Energy Code having 60,000 Btu/h or less meeting the 2013 capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at design air flow. 2. Existing mechanical equipment.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not applicable to low-rise residential occupancies, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 121 (Requirements For Ventilation) of the 2010 California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the 2013 California Energy Code, Section 120(c)(4).

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