SANTA ANA COURT OF APPEALS

FOURTH APPELLATE DISTRICT, DIVISION THREE

ROOF REPLACEMENT

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

PROJECT TEAM

CLIENT

JUDICIAL COUNCIL OF CALIFORNIA
455 GOLDEN GATE AVE
SAN FRANCISCO, CA 94102-3688

CONTACT: ALISHA DUTTA
ALISHA.DUTTA@JUD.CA.GOV
(916) 755-1952

ARCHITECT

ARCHITECTURAL RESOURCES GROUP, INC.
360 E. 2ND STREET, SUITE, 225
LOS ANGELES, CA 90012

CONTACT: ALICE VALANIA, AIA, LEED AP, ASSOC. DBIA
A.VALANIA@ARGCREATE.COM
(916) 917-4059

KIMBRO FRUTIGER
K.FRUTIGER@ARGCREATE.COM
(626) 583-1401 EXT. 114

MECHANICAL/ELECTRICAL/PLUMBING ENGINEER

BUILDING SOLUTIONS GROUP
1139 WESTMINSTER AVE, UNIT A
ALHAMBRA, CA 91803

CONTACT: ROGER M. NITE, PRINCIPAL
RNITE@BUILDINGSOLUTIONSGROUP.COM
(626) 281-6220 EXT. 23

GENERAL WORK NOTES:

1. CONTRACTOR TO SUBMIT REQUESTS FOR INFORMATION (RFI'S) IF PROJECT SCOPE OF WORK IS UNCLEAR. SEE PROJECT SPECIFICATIONS FOR PROCEDURES.
2. CONTRACTOR TO PROVIDE SUBMITTALS AS INDICATED AND PER PROCEDURES DESCRIBED IN PROJECT SPECIFICATIONS.
3. CONTRACTOR TO PROVIDE CLOSE-OUT MATERIALS AS INDICATED AND PER PROCEDURES DESCRIBED IN PROJECT SPECIFICATIONS.
4. CONTRACTOR TO PROVIDE ALL EQUIPMENT, LABOR, AND MATERIALS TO COMPLETE THE SCOPE OF WORK U.O.I.
5. CONTRACTOR TO PROPOSE DUST MITIGATION PROCEDURES FOR JCC REVIEW AND APPROVAL. CONTRACTOR TO PERFORM APPROVED PROCEDURES. IN THE EVENT APPROVED PROCEDURES AS ENACTED ARE NOT SUFFICIENT TO ALLOW OWNER'S FULL USE OF THE COURT BUILDING, CONTRACTOR TO REASSESS FOR FURTHER JCC REVIEW AND APPROVAL.
6. CONTRACTOR SHALL HAUL OFF AND DISPOSE OF DEMOLITION AND CONSTRUCTION DEBRIS PER PROCEDURES DESCRIBED IN PROJECT SPECIFICATIONS.
7. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEAN AND ORDERLY CONSTRUCTION SITE THROUGHOUT THE DURATION OF THE WORK. SEE PROJECT SPECIFICATIONS.
8. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEANING PRIOR TO HANDING OVER ANY WORK AREA TO THE OWNER. SEE PROJECT SPECIFICATIONS.
9. CONTRACTOR SHALL PARTICIPATE IN AN IN-PERSON PUNCH-WALK WITH THE JCC AND COURT REPRESENTATIVE(S) PRIOR TO PROJECT CLOSE-OUT. SEE PROJECT SPECIFICATIONS.
10. CONTRACTOR SHALL PROVIDE AND INSTALL FLOOR PROTECTION AT INTERIOR PATH OF TRAVEL FROM CONSTRUCTION ENTRANCE TO FIRST FLOOR ELEVATORS AND FROM THIRD FLOOR ELEVATORS UP TO ROOF STAIR LANDING. PROTECTION SHEET TO BE 45 MIL MIN, FIXED FIRMLY WITHOUT DAMAGE TO ANY FINISH SURFACES.
11. CONTRACTOR SHALL PROVIDE OWN RESTROOM FACILITIES ON SITE THROUGHOUT THE DURATION OF THE WORK. CONTRACTOR'S PERSONNEL, SUBCONTRACTORS, VENDORS, AND CONSULTANTS MAY NOT USE THE BUILDING'S RESTROOM FACILITIES.
12. CONTRACTOR SHALL PROVIDE ANY HEALTH AND HYGIENE FACILITIES REQUIRED BY LAW AND/OR AT THE OWNER'S DISCRETION, INCLUDING BUT NOT LIMITED TO COVID-19 RELATED FACILITIES.
13. CONTRACTOR IS RESPONSIBLE FOR ALL CONTRACTOR'S PERSONNEL, SUBCONTRACTORS, VENDORS, AND CONSULTANTS' COMPLIANCE WITH COVID-19-RELATED MEASURES, INCLUDING BOTH LEGAL REQUIREMENTS AND MEASURES INSTITUTED AT THE OWNER'S DISCRETION.

SHEET INDEX

APPLICABLE CODES AND REGULATIONS

THE PERMIT FOR THE WORK DESCRIBED HEREIN WILL BE ISSUED THROUGH THE JUDICIAL COUNCIL OF CALIFORNIA.

ALL WORK SHALL COMPLY WITH CURRENT CALIFORNIA BUILDING STANDARDS CODE (CBC), THE AMERICANS WITH DISABILITIES ACT INCLUDING TITLE II (ADA), UNIFORM BUILDING CODE (UBC), STATE FIRE MARSHAL REGULATIONS, LOCAL ZONING AND BUILDING CODES AND ORDINANCES, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.

1 CALIFORNIA CODE OF REGULATIONS TITLE 24, 2019 CALIFORNIA BUILDING CODE, INCLUDING:
- PART 2 CALIFORNIA BUILDING CODE, VOLUMES 1 & 2
- PART 3 CALIFORNIA ELECTRICAL CODE
- PART 4 CALIFORNIA MECHANICAL CODE
- PART 5 CALIFORNIA PLUMBING CODE
- PART 6 CALIFORNIA ENERGY CODE
- PART 7 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE
- PART 9 CALIFORNIA FIRE CODE
- PART 10 CALIFORNIA EXISTING BUILDING CODE
- PART 11 CALIFORNIA GREEN BUILDING STANDARDS

ACCESSIBILITY REQUIREMENTS ARE GOVERNED BY:
- CALIFORNIA BUILDING CODE, CHAPTER 11B
- UNITED STATES ACCESS BOARD, AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES, JULY 23, 2004

ELEVATORS ARE GOVERNED BY CALIFORNIA CODE OF REGULATIONS, TITLE 8, INDUSTRIAL RELATIONS, DIVISION 1, CHAPTER 4, SUBCHAPTER 6: ELEVATOR SAFETY ORDERS. ADOPTED BY REFERENCE IS THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS SAFETY CODE FOR ELEVATORS AND ESCALATORS, ASME A17.1-1996.

PROJECT DESCRIPTION

SCOPE OF WORK CONSISTS OF:

- COMPLETE TEAR-OFF OF EXISTING ROOFING ASSEMBLY TO DECK AT MAIN AND LOWER-LEVEL ROOFS, EXCEPTING TRANSITION ELEMENTS KEYED INTO ADJACENT CONSTRUCTION OR MECHANICAL SUPPORTS (FLASHING, SCUPPERS, DRAIN BODIES, ETC. AS INDICATED)
- INTERIM ROOF PROTECTION AND DRAINAGE
- NEW PVC MEMBRANE ROOFING ASSEMBLY TO MATCH SLOPES, PROFILES, AND R30 AVG INSULATION VALUE OF EXISTING CONDITION
- COORDINATION OF NEW ROOFING ASSEMBLY WITH LOCAL CONDITIONS AND ELEMENTS INCLUDING BUT NOT LIMITED TO ROOF EQUIPMENT, SUPPORTS, PADS, PENETRATIONS, TIEBACKS, HATCHES, CURBS, AND TRANSITION ELEMENTS RETAINED AS ABOVE.

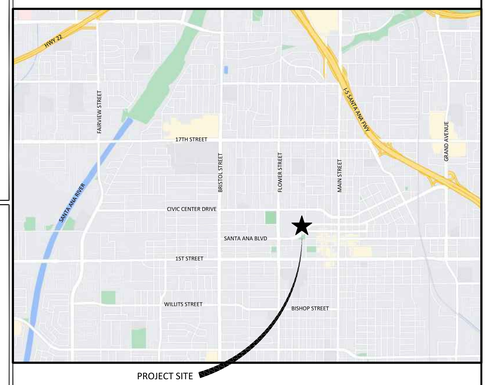
NOTE: OWNER PLANS TO INSTALL A ROOFTOP PHOTOVOLTAIC SYSTEM, NOT IN THIS SCOPE.

PROJECT DATA

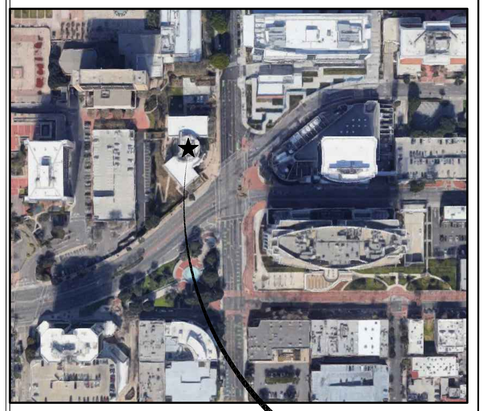
INFORMATION BELOW DESCRIBES EXISTING CONDITIONS THAT WILL REMAIN UNCHANGED BY THIS SCOPE OF WORK

BUILDING DESCRIPTION:	THE COURT OF APPEALS IS A FREESTANDING THREE-STORY STRUCTURE COMPLETED IN 2009. CONSTRUCTION IS STEEL FRAME WITH COMPOSITE DECKS. TYPICAL EXTERIOR WALLS ARE LGM FRAMING WITH STONE VENEER.	
ADDRESS/LOCATION:	601 WEST SANTA ANA BOULEVARD SANTA ANA, CALIFORNIA	
LEGAL DESCRIPTION:	REFER TO DEC. 2004 ALTA/ACSM LAND TITLE SURVEY (UPDATED ON 9/22/06)	
ASSESSOR'S PARCEL NO.:	008-036-34, 008-067-27, 008-067-33, 008-067-40	
ZONING:	INS (INSTITUTIONAL)	
TOTAL BUILDING AREA:	FIRST FLOOR: 18,322 SF SECOND FLOOR: 16,819 SF THIRD FLOOR: 16,819 SF TOTAL: 51,960 SF	
SITE AREA:	80,718 SF (1.853 ACRES)	
CONSTRUCTION TYPE:	TYPE IIIB, 1 HOUR, FULLY SPRINKLERED	
OCCUPANCY TYPE:	"B", "A-3"	
OCCUPANCY SEPARATION:	"B" / "A-3" NO REQUIREMENT	
AREA ANALYSIS:	ALLOWABLE AREA: "B" (PER CBC TABLE 506.2) FRONTAGE INCREASE: I$_f$= [F/P - 0.25] W/30 = [1- 0.25] 30/30 = .75 TOTAL ALLOWABLE AREA = [A$_t$ + (NS x I$_f$)] x S, = [57,000 + (19,000 x .75)] x 3 = 213,750 SF	
BUILDING HEIGHT:	3 STORIES (4 STORIES MAX. PER TABLE 504.4) 48' TOP OF PARAPET HEIGHT 58'-4" TOP OF STONE MECHANICAL SCREEN WALL (75' MAX. PER TABLE 504.3)	
FIRE-RESISTANCE:	EXTERIOR BEARING WALLS:	4 HOUR NC <5' 2 HOUR NC >5'
	INTERIOR BEARING WALLS:	1 HOUR
	EXTERIOR NON-BEARING WALLS:	4 HOUR NC <5' 2 HOUR NC <20' 1 HOUR NC <40' NR NC >40'
	STRUCTURAL FRAME:	NR
	PARTITIONS - PERMANENT:	1 HOUR
	SHAFT ENCLOSURES:	1 HOUR
	FLOORS AND FLOOR- CEILING:	NR
	ROOFS AND CEILING / ROOFS:	NR
	EXTERIOR OPENINGS:	NOT PERMITTED <5' PROT. <20'
	STAIRWELL CONSTRUCTION:	1 HOUR

PROJECT LOCATION



VICINITY MAP



REVIEWED FOR CODE COMPLIANCE
USING THE FOLLOWING CODES:
- ☐ 2019 CALIFORNIA RESIDENTIAL CODE
- ☐ 2019 CALIFORNIA BUILDING CODE
- ☐ 2019 CALIFORNIA ELECTRICAL CODE
- ☐ 2019 CALIFORNIA PLUMBING CODE
- ☐ 2019 CALIFORNIA MECHANICAL CODE
- ☐ 2019 CALIFORNIA ENERGY CODE
- ☐ 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ☐ 2019 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
- ☐ 2019 CALIFORNIA FIRE CODE
- ☐ OTHER: _____

COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.

BY: *Elena Hartsough, Interwest Struct* DATE: *Dec 15, 2021*

INTERWEST CONSULTING GROUP

Architectural Resources Group
360 E. 2nd Street, Suite 225
Los Angeles, California 90012
626.583.1401
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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
02/11/22
21-7704

Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

NO.	DESCRIPTION	DATE
1	OSFM CORRECTIONS	02/07/22

REVISIONS

SANTA ANA COURT OF APPEALS ROOF REPLACEMENT

FOURTH APPELLATE DISTRICT
DIVISION THREE

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

SHEET TITLE

COVER SHEET / PROJECT INFO

ISSUANCE

100% CONSTRUCTION DOCUMENTS

12/01/21

PROJ NO.
180218.02

DRAWN
GD

CHECKED
KF

LICENSED ARCHITECT
NAOMI O. MIROGLIO
NO. 22990
REN. 11-30-23
STATE OF CALIFORNIA

DRAWING NO.

T0.00

SHEET 1 OF 13

V2

30"x42" SHEET SIZE. IF SHEET SIZE IS SMALLER, THEN DRAWING HAS BEEN REDUCED.

ABBREVIATIONS

&	AND	EMER	EMERGENCY	MFR	MANUFACTURER		DRAWINGS
∠	ANGLE	ENCL	ENCLOSURE	MH	MANHOLE	SLR	SEALER
@	AT	EP	ELECTRICAL PANEL	MIN	MINIMUM	SMD	SEE MECHANICAL
℄	CENTERLINE	EQ	EQUAL	MIR	MIRROR		DRAWINGS
ø	DIAMETER/ ROUND	EQPT	EQUIPMENT	MISC	MISCELLANEOUS	SND	SANITARY NAPKIN
#	POUND OR NUMBER	EWC	ELECTRICAL WATER	MO	MASONRY OPENING		DISPENSER
⊥	PERPENDICULAR		COOLER	MTD	MOUNTED	SNR	SANITARY NAPKIN
		EXIST	EXISTING	MUL	MULLION		RECEPTACLE
ACOUS	ACOUSTICAL	EXP	EXPANSION			SPD	SEE PLUMBING
ACT	ACOUSTIC CEILING	EXPO	EXPOSED	N	NORTH		DRAWINGS
	TILE	EXT	EXTERIOR	(N)	NEW	SPEC	SPECIFICATION
AD	AREA DRAIN			NIC	NOT IN CONTRACT	SQ	SQUARE
ADJ	ADJUSTABLE/	FA	FIRE ALARM	NOM	NOMINAL	SSD	SEE STRUCTURAL
	ADJACENT	FB	FUSE BOX	NTS	NOT TO SCALE		DRAWINGS
AFF	ABOVE FINISHED	FBR BD	FIBER BOARD			SSK	SERVICE SINK
	FLOOR	FBRGL	FIBERGLASS	OA	OVERALL	SST	STAINLESS STEEL
AL	ALUMINUM	FD	FLOOR DRAIN	OBS	OBSCURE	STA	STATION
APPROX	APPROXIMATE	FDN	FOUNDATION	OC	ON CENTER	STD	STANDARD
ARCH	ARCHITECTURAL	FE	FIRE EXTINGUISHER	OCC	OCCUPANCY OR	STL	STEEL
ASB	ASBESTOS	FEC	FE CABINET		OCCUPANT(S)	STOR	STORAGE
ASPH	ASPHALT	FHC	FIRE HOSE CABINET	OD	OUTSIDE DIAMETER	STRUC	STRUCTURAL
ATT	ATTACH	FIN	FINISH	OFCI	OWNER FURNISHED,	SUSP	SUSPENDED
		FLR	FLOOR		CONTRACTOR	SV	SHEET VINYL
BD	BOARD	FLASH	FLASHING		INSTALLED	SYM	SYMMETRICAL
BITUM	BITUMINOUS	FLUOR	FLUORESCENT	OFOI	OWNER FURNISHED,		
BLDG	BUILDING	FND	FOUNDATION		OWNER INSTALLED	T	TREAD
BLK	BLOCK	FO	FACE OF	OFF	OFFICE	TB	TOWEL BAR
BM	BEAM	FOC	FACE OF CONCRETE	OPNG	OPENING	TCA	TILE COUNCIL OF
BOT	BOTTOM	FOF	FACE OF FINISH	OPP	OPPOSITE		AMERICA
BUR	BUILT-UP ROOFING	FOM	FACE OF MASONRY	OSB	ORIENTED STRAND	TEL	TELEPHONE
		FOS	FACE OF STUD		BOARD	TER	TERRAZZO
CAB	CABINET	FOW	FACE OF WALL	PARA	PARALLEL	T&G	TONGUE & GROOVE
CB	CATCH BASIN	FP	FABRIC PANEL	PERP	PERPENDICULAR	THK	THICK
CEM	CEMENT	FPRF	FIREPROOF	PL	PLATE	TO	TOP OF
CER	CERAMIC	FRP	FIBERGLASS	PLAM	PLASTIC LAMINATE	TOC	TOP OF CURB
CG	CORNER GUARD		REINFORCED PANEL	PLAS	PLASTER	TOP	TOP OF PAVING
CI	CAST IRON	FS	FULL SIZE	PLYWD	PLYWOOD	TOW	TOP OF WALL
CJ	CONTROL JOINT	FT	FOOT OR FEET	PR	PAIR	TPD	TOILET PAPER
CLG	CEILING	FTG	FOOTING	PRCST	PRECAST		DISPENSER
CLKG	CAULKING	FURR	FURRING	PT	PAINT	TR	TRASH RECEPTACLE
CLO	CLOSET	FUT	FUTURE	PTD	PAPER TOWEL	TRD	TREAD
CLR	CLEAR				DISPENSER	TV	TELEVISION
CMU	CONCRETE	GA	GAUGE	PTD/R	COMBINATION	TYP	TYPICAL
	MASONRY UNIT	GALV	GALVANIZED		PAPER TOWEL		
CNTR	COUNTER	GB	GRAB BAR		DISPENSER/	UNF	UNFINISHED
CO	CLEANOUT OR	GL	GLASS		RECEPTACLE	UON	UNLESS OTHERWISE
	CONTRACTING	GLB	GLUE LAM BEAM	PTN	PARTITION		NOTED
	OFFICER	GND	GROUND	PTR	PAPER TOWEL	UR	URINAL
COL	COLUMN	GR	GRADE		RECEPTACLE		
COMP	COMPOSITION	GSM	GALVANIZED SHEET			VCT	VINYL COMPOSITION
CONC	CONCRETE		METAL	QT	QUARRY TILE		TILE
COND	CONDITION	GYP	GYPSUM			VERT	VERTICAL
CONN	CONNECTION			R	RISER	VEST	VESTIBULE
CONSTR	CONSTRUCTION	HB	HOSE BIB	(R)	REMOVE	VIF	VERIFY IN FIELD
CONT	CONTINUOUS	HC	HOLLOW CORE	RAD	RADIUS	VP	VENEER PLASTER
CONTR	CONTRACTOR	HDR	HEADER	RB	RUBBER BASE	VTR	VENT THROUGH
COR	CONTRACTING	HDWD	HARDWOOD	RD	ROOF DRAIN		ROOF
	OFFICER'S	HDWE	HARDWARE	REC	RECESSED	VW	VINYL
	REPRESENTATIVE	HGT	HEIGHT	REF	REFERENCE		WALLCOVERING
CORR	CORRIDOR	HM	HOLLOW METAL	REFG	REFRIGERATOR		
CPT	CARPET	HORIZ	HORIZONTAL	REHAB	REHABILITATE	W	WEST
CT	CERAMIC TILE	HR	HOUR	REINF	REINFORCED	W/	WITH
CTG	CENTER	HGT	HEIGHT	REP	REPAIR	WC	WATER CLOSET
CTSK	COUNTERSINK			REQ	REQUIRED	WCV	WALLCOVERING
		ID	INSIDE DIAMETER	RESIL	RESILIENT	WD	WOOD
DBL	DOUBLE	INSUL	INSULATION	RES	RESTORE	WO	WHERE OCCURS
DEMO	DEMOLITION	INT	INTERIOR	RF	REFINISH	W/O	WITHOUT
DEPT	DEPARTMENT			RGTR	REGISTER	WP	WATERPROOF
DET	DETAIL	JAN	JANITOR	FL	ROOF LEADER	WSCT	WAINSCOT
DETER	DETERIORATED	JC	JANITOR CLOSET	RM	ROOM	WT	WEIGHT
DF	DRINKING FOUNTAIN	JT	JOINT	RO	ROUGH OPENING		
	OR DOUGLAS FIR			RWD	REDWOOD		
DIA	DIAMETER	KIT	KITCHEN	RWL	RAIN WATER		
DIM	DIMENSION				LEADER		
DISP	DISPENSER	LAB	LABORATORY				
DN	DOWN	LAM	LAMINATE	S	SOUTH		
DO	DOOR OPENING	LAV	LAVATORY	SALV	SALVAGE		
DR	DOOR	LB	POUND	SC	SOLID CORE		
DS	DOWNSPOUT	LKR	LOCKER	SCD	SEAT COVER		
DSP	DRY STANDPIPE	LN	LINOLEUM		DISPENSER		
DTL	DETAIL	LT	LIGHT	SCHED	SCHEDULE		
DWG	DRAWING	MAX	MAXIMUM	SD	SOAP DISPENSER		
DWR	DRAWER	MB	MACHINE BOLT	SECT	SECTION		
		MC	MEDICINE CABINET	SED	SEE ELECTRICAL		
E	EAST	MDF	MEDIUM DENSITY		DRAWINGS		
(E)	EXISTING		FIBERBOARD	SH	SHELF		
EA	EACH	MDO	MEDIUM DENSITY	SHR	SHOWER		
EJ	EXPANSION JOINT		OVERLAY	SHT	SHEET		
EL	ELEVATION	MECH	MECHANICAL	SHTHG	SHEATHING		
ELEC	ELECTRICAL	MEMB	MEMBRANE	SIM	SIMILAR		
ELEV	ELEVATOR	MET	METAL	SLD	SEE LANDSCAPE		

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY THAT (E) CONDITIONS ARE AS INDICATED ON THE DRAWINGS. NOTIFY THE ARCHITECT IMMEDIATELY OF VARIATIONS OR DISCREPENCIES. DO NOT PROCEED WITH AFFECTED WORK UNTIL THE VARIATIONS OR DISCREPENCIES ARE RESOLVED BY THE ARCHITECT.
2. ALL CONSTRUCTION AND INSTALLATION WORK SHOWN ON DRAWINGS SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. USE METHODS AS REQUIRED TO COMPLETE WORK WITHIN LIMITATIONS OF ALL PREVAILING LAWS AND CODES.
3. DO NOT SCALE DRAWINGS: USE DIMENSIONS SHOWN. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. DIMENSIONS SHOWN AT (E) CONDITIONS ARE TO FACE OF (E) FINISH, U.O.N. DIMENSIONS AT NEW WORK ARE TO FACE OF FRAMING, U.O.N. DIMENSIONS OF (E) CONDITIONS ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD. WHERE NO DIMENSION IS PROVIDED CONSULT WITH THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH AFFECTED WORK.
4. SAFETY MEASURES: AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS AT THE JOB SITE, INCLUDING SAFETY OF PEOPLE AND PROPERTY. ARCHITECT SITE VISITS ARE NOT INTENDED TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
5. INSTALL MANUFACTURED MATERIALS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS, UNLESS OTHERWISE INSTRUCTED.
6. ALL WASTE AND REFUSE CAUSED IN CONNECTION WITH THE WORK SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF BY THE CONTRACTOR. THE PREMISES SHALL BE LEFT CLEAR AND CLEAN TO THE SATISFACTION OF THE ARCHITECT.
7. APPLICATION OF FINISH: SURFACES PREVIOUSLY PREPARED OR INSTALLED BY ANOTHER TRADE SHALL BE INSPECTED CAREFULLY BY THE CONTRACTOR BEFORE APPLYING SUBSEQUENT MATERIALS OR FINISHES. IF SURFACES ARE NOT ACCEPTABLE, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IN ORDER THAT CORRECTIONS MAY BE MADE. APPLICATIONS OF FINISHES WILL BE CONSTRUED AS ACCEPTANCE OF RESPONSIBILITY BY THE SUBCONTRACTOR FOR THE BASE UPON WHICH IT IS APPLIED.
8. INSTALL ALL WORK PLUMB, LEVEL AND STRAIGHT, OR AS REQUIRED TO ALIGN WITH (E) ADJACENT SURFACES.
9. CONTRACTOR SHALL DESIGN AND INSTALL SHORING AS REQUIRED TO PERFORM WORK. RESPONSIBILITY FOR ENGINEERING, CONSTRUCTION, AND SAFETY OF THE SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLEMENTARY. CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, SPECIFICATIONS, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH WORK.
11. DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT.
12. THE CONTRACTOR MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SUBMITTED TO THE ARCHITECT FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS IT IS CLEARLY NOTED ON THE SUBMITTAL THAT SPECIFIC CHANGES ARE BEING REQUESTED WITH THE PHRASE "REQUESTED CHANGE".
13. FINAL AS-BUILT RECORD DOCUMENTS SHOWING ALL REVISIONS INCORPORATED DURING CONSTRUCTION SHALL BE SUBMITTED TO THE OWNER PRIOR TO PROJECT CLOSE-OUT.
14. THROUGHOUT THE CONSTRUCTION DOCUMENTS, ITEMS THAT ARE EXISTING ARE INDICATED AS "EXISTING" OR "(E)", ITEMS WITHOUT THIS INDICATION ARE NEW CONSTRUCTION. WHERE REQUIRED FOR PURPOSES OF CLARITY, SOME ITEMS MAY BE INDICATED AS "NEW OR "(N)".

HAZARDOUS MATERIALS

ARCHITECTURAL RESOURCES GROUP ASSUMES NO RESPONSIBILITY FOR THE MANAGEMENT OF HAZARDOUS MATERIALS THAT MAY BE ON THIS SITE.

A. AN INVESTIGATION FOR HAZARDOUS MATERIALS HAS BEEN PERFORMED BY FORENSIC ANALYTICAL CONSULTING SERVICES, LONG BEACH, CA. THE RESULTING REPORT DATED JANUARY 27, 2021 IS AVAILABLE UPON REQUEST FROM THE OWNER.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT PERSONNEL WITHIN THE WORK AREA ARE PROTECTED FROM EXPOSURE TO ANY HAZARDOUS MATERIALS ENCOUNTERED. IF MATERIALS ARE DISCOVERED THAT MAY BE HAZARDOUS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND CEASE WORK UNTIL CONDITIONS CAN BE MAINTAINED IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS.

DETAIL NUMBERING

THE NUMBERING SYSTEM USED FOR DETAILS ON THE DRAWINGS IS AS SHOWN IN THE FOLLOWING DIAGRAM.

20	16	12	8	4
19	15	11	7	3
18	14	10	6	2
17	13	9	5	1

WHEN MORE THAN ONE BLOCK IS USED FOR A SINGLE DETAIL, THE NUMBER OF THE LOWEST NUMBERED BLOCK IS USED, THUS NUMBERS ARE ALWAYS IN THE SAME LOCATION ON THE SHEET.

SYMBOL LEGEND

DOOR SYMBOL
20 ← DOOR NUMBER

WINDOW SYMBOL
20 ← WINDOW NUMBER

ALIGN SURFACES

ROOM TITLE SYMBOL
ENTRY ← ROOM NAME
112 ← ROOM NUMBER

WALL TYPE SYMBOL
D ← WALL TYPE

SHEET NOTE SYMBOL
20 ← SHEET NOTE NUMBER

INTERIOR ELEVATION OR PHOTO DETAIL SYMBOL
1 / A3.1
← ELEVATION OR PHOTO DETAIL NUMBER
← SHEET WHERE ELEVATION OR PHOTO DETAIL OCCURS

DETAIL SYMBOL
2 / A8.1
← DETAIL NUMBER
← SHEET WHERE DETAIL OCCURS

SECTION SYMBOL
A / A4.1
← SECTION NUMBER
← SHEET WHERE SECTION OCCURS

NEW CONSTRUCTION
EXISTING CONSTRUCTION TO BE REMOVED
EXISTING CONSTRUCTION TO REMAIN

REVIEWED
FOR
CODE COMPLIANCE
Dec 15, 2021
INTERWEST CONSULTING GROUP

Architectural Resources Group
360 E. 2nd Street, Suite 225
Los Angeles, California 90012
626.583.1401
arg-la.com

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
02/11/22
21-87564
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

NO.	DESCRIPTION	DATE
	REVISIONS	

SANTA ANA COURT OF APPEALS ROOF REPLACEMENT

FOURTH APPELLATE DISTRICT
DIVISION THREE

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

SHEET TITLE
GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

ISSUANCE
100% CONSTRUCTION DOCUMENTS
12/01/21

PROJ NO.
180218.02
DRAWN
GD
CHECKED
KF

LICENSED ARCHITECT NAOMI O. MIROGLIO NO. 22990 REN. 11-30-23 STATE OF CALIFORNIA

DRAWING NO.
T0.01
SHEET 2 OF 13
V2

30"x42" SHEET SIZE. IF SHEET SIZE IS SMALLER, THEN DRAWING HAS BEEN REDUCED.

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

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 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.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

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 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

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.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

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.

SECTION 303 PHASED PROJECTS

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.

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 303.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

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 respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

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

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.

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 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 "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 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 work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

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 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.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by 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, 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.
   c. Drainage swales or lined ditches to control stormwater flow.
   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.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. 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 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.).
   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.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

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

5.106.4.1 Bicycle parking. [BSC-CG] 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. If the new project or an addition or alteration is anticipated to 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.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	3
25-50	6
51-75	9
76-100	12
101-150	18
151-200	21
201 AND OVER	AT LEAST 12% OF TOTAL[1]

1.Calculation for spaces shall be rounded up to the nearest whole number.

Note: Designated parking for clean air vehicles shall count towards the total parking spaces required by the local enforcing agencies.

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1".
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-ampere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.
2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	2
26-50	4
51-75	7
76-100	9
101-150	13
151-200	18
201 AND OVER	10% of total[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

Note: Future electric vehicle charging spaces shall count towards the total parking spaces required by the local enforcing agencies.

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 3 (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG], ***California Energy Code [DSA-SS].*** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall 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:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

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

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

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 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.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (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 TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

REVIEWED
FOR
CODE COMPLIANCE
Dec 15, 2021
INTERWEST CONSULTING GROUP

30"x42" SHEET SIZE. IF SHEET SIZE IS SMALLER, THEN DRAWING HAS BEEN REDUCED.

Architectural Resources Group
360 E. 2nd Street, Suite 225
Los Angeles, California 90012
626.583.1401
arg-la.com

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
07/11/22
21-7704
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

NO.	DESCRIPTION	DATE

REVISIONS

SANTA ANA COURT OF APPEALS ROOF REPLACEMENT

FOURTH APPELLATE DISTRICT
DIVISION THREE

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

SHEET TITLE
CALGREEN 1

ISSUANCE
100% CONSTRUCTION DOCUMENTS
12/01/21

PROJ NO.
180218.02

DRAWN
GD

CHECKED
KF

LICENSED ARCHITECT
NASIM O. MIRGOLBABAEI
NO. 22990
EXPIRES 11-30-23
STATE OF CALIFORNIA

DRAWING NO.
T1.00

SHEET 3 OF 13

V2

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2021, Includes July 2021 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 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.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

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

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

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

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

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.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

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 1402.2 (Weather Protection), 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:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. 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 65% 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:

1. 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 local recycling 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 65% 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.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in cocumenting 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).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 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.

Notes:

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.
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)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting 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.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

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

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

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 systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. 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.

Informational Notes:

1. 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.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

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 project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

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 cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

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:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   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.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

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 made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

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:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

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 systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

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.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

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 systems.

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:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

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.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

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.

SECTION 5.502 DEFINITIONS

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

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32^{0} Fahrenheit.

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 continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

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 lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

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 motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS)j. One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse 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.

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); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of 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 a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

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.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

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 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 this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

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

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2. a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on 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, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. 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, 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 New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 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.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation 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 which may enter the system.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (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 TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

REVIEWED
FOR
CODE COMPLIANCE
Dec 15, 2021
INTERWEST CONSULTING GROUP

30"x42" SHEET SIZE. IF SHEET SIZE IS SMALLER, THEN DRAWING HAS BEEN REDUCED.

Architectural Resources Group
360 E. 2nd Street, Suite 225
Los Angeles, California 90012
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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
02/11/22
21-07/04
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

NO.	DESCRIPTION	DATE
	REVISIONS	

SANTA ANA COURT OF APPEALS ROOF REPLACEMENT

FOURTH APPELLATE DISTRICT
DIVISION THREE

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

SHEET TITLE

CALGREEN 2

ISSUANCE

100% CONSTRUCTION DOCUMENTS

12/01/21

PROJ NO.
180218.02

DRAWN
GD

CHECKED
KF

LICENSED ARCHITECT
NAOMI O. MIROGLIO
NO. 22990
RENEWAL 11-30-2023
STATE OF CALIFORNIA

DRAWING NO.

T1.01

SHEET 4 OF 13

V2

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NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2021, Includes July 2021 Supplement)

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Y	N/A	RESPON. PARTY
☐	☐	

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

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 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.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

	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
	SPECIALTY APPLICATIONS	
>	PVC WELDING	510
	CPVC WELDING	490
	ABS WELDING	325
	PLASTIC CEMENT WELDING	250
	ADHESIVE PRIMER FOR PLASTIC	550
	CONTACT ADHESIVE	80
	SPECIAL PURPOSE CONTACT ADHESIVE	250
	STRUCTURAL WOOD MEMBER ADHESIVE	140
	TOP & TRIM ADHESIVE	250
	SUBSTRATE SPECIFIC APPLICATIONS	
	METAL TO METAL	30
	PLASTIC FOAMS	50
	POROUS MATERIAL (EXCEPT WOOD)	50
	WOOD	30
	FIBERGLASS	80

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

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

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less 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

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

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 VOC by weight of product limits of Regulation 8 Rule 49.

Y	N/A	RESPON. PARTY
☐	☐	

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

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[1]	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

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

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

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

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:

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

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of 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 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of 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 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

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

Y	N/A	RESPON. PARTY
☐	☐	

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

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 FIBERBOARD[2]	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).

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of 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 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

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 13. MERV 13 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: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

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 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, 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 120.1 (Requirements For Ventilation) of the *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 (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

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

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 potential (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.

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.

Y	N/A	RESPON. PARTY
☐	☐	

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 refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

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 industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.1.4 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 *California Mechanical Code* and as follows.

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.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

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.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a devices tha 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 charging.

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.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

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 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 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

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

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

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

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

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.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

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

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

703 VERIFICATIONS

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

REVIEWED
FOR
CODE COMPLIANCE
Dec 15, 2021
INTERWEST CONSULTING GROUP

30"x42" SHEET SIZE. IF SHEET SIZE IS SMALLER, THEN DRAWING HAS BEEN REDUCED.

Architectural Resources Group
360 E. 2nd Street, Suite 225
Los Angeles, California 90012
626.583.1401
arg-la.com

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
02/11/22
21-7704
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

NO.	DESCRIPTION	DATE

REVISIONS

SANTA ANA COURT OF APPEALS ROOF REPLACEMENT

FOURTH APPELLATE DISTRICT
DIVISION THREE

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

SHEET TITLE

CALGREEN 3

ISSUANCE
100% CONSTRUCTION DOCUMENTS

12/01/21

PROJ NO.
180218.02

DRAWN
GD

CHECKED
KF

LICENSED ARCHITECT
NAOMI O. MIROGLIO
NO. 22990
RENEWAL 11-30-23
STATE OF CALIFORNIA

DRAWING NO.

T1.02

SHEET 5 OF 13

V2

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E (Created 03/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: Santa Ana Court of Appeals Reroofing	Report Page:	Page 1 of 5
Project Address: 601 West Santa Ana Blvd, Santa Ana CA 92701	Date Prepared:	2021-12-01

This document is used to demonstrate compliance with mandatory requirements in §110.8(g) and §120.7(b) for newly constructed buildings, and §141.0(b)1 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in §140.3 for newly constructed buildings, and §141.0 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.

A. GENERAL INFORMATION

01	Project Location (city)	Santa Ana	05	# of Stories (Habitable Above Grade)	3
02	Zipcode	92701	06	Total Conditioned Floor Area (ft²)	51,960
03	Climate Zone	8	07	Total Unconditioned Floor Area (ft²)	0
04	Occupancy Types Within Project (select all that apply): If one occupancy constitutes ≥ 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per §100.0(f).		08	☐ Project includes unconditioned enclosed space(s) > 5,000ft² under a roof with a ceiling height of at least 15ft.[1]	

☑ All Nonresidential, including Relocatable Public School Building certified for use in one climate zone. Occupancy: A / B / E / F / H / M / S / U
☐ Relocatable Public School Building for use in all climate zones. Occupancy: E
☐ High-Rise Residential Occupancy: R-2 / R-3
☐ Hotel/Motel Guest Rooms Occupancy: R-1

[1] *FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in §140.3(c). Compliance with §140.3(c) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.*

B. PROJECT SCOPE

Table Instructions: Include any building envelopes that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.3, and §141.0(b)1 and §141.0(b)1 and 2 for additions and alterations.

My project consists of (check all that apply)	Component Types		
01	02		
☐ New Construction or Newly Conditioned Space	☐ Roof	☐ Walls	☐ Exterior Doors
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft		☐ Floors	☐ Fenestration/Glazed Door[1]
☐ Addition of conditioned space	☐ Roof	☐ Walls	☐ Exterior Doors
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft		☐ Floors	☐ Fenestration/Glazed Door[1]
☑ Alteration of conditioned space	☐ Roof Assembly	☐ Walls	Exterior Doors NA for Alts.
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☑ Roofing Material	☐ Floors	☐ Fenestration

[1] *FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on Table K with fenestration.*

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E (Created 03/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: Santa Ana Court of Appeals Reroofing	Report Page:	Page 4 of 5
Project Address: 601 West Santa Ana Blvd, Santa Ana CA 92701	Date Prepared:	2021-12-01

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation to be added to Table D Exceptional Conditions. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCI

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-ENV-01-E - Must be submitted for all buildings.	☐	☐

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation to be added to Table D Exceptional Conditions. The form user should also include the systems that are required to be field verified. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1.

YES	NO	Form/Title	System to be Field Verified	Field Inspector Pass	Field Inspector Fail
○	◉	NRCA-ENV-02-F - Must be submitted for all new, added or altered fenestration.		☐	☐
		NRCA-ENV-03-F - Daylighting design indoor lighting power adjustment factors (PAF). Note: The requirement for this NRCA is indicated on the NRCC-LTI (prescriptive) or NRCC-PRF (performance) because it is only relevant if a PAF is used for clerestories, daylight redirection devices or horizontal slats.			

Showing 1-11 of 11 results

CRRC PROD. ID	MANUFACTURER	BRAND AND MODEL	PRODUCT TYPE	COLOR	SOLAR REFLECTANCE INITIAL	SOLAR REFLECTANCE 3 YEAR	THERMAL EMITTANCE INITIAL	THERMAL EMITTANCE 3 YEAR	SRI INITIAL	SRI 3 YEAR	MORE INFO
0674-0025	Sika Corporation	**Sarnafil** G410-15EL Traffic White 9016 SR (03)	Single-Ply	Bright White	0.88	0.80	0.90	0.87	111	99	+
0674-0001a	Sika Corporation	**Sarnafil** S 327 Energy Smart White	Single-Ply	Bright White	0.84	0.76	0.86	0.85	105	93	+
0674-0020	Sika Corporation	**Sarnafil** TS 77-18 Traffic White 9016 SR	Single-Ply	Bright White	0.86	0.76	0.90	0.87	109	94	+
0674-0002a	Sika Corporation	**Sarnafil** G 410 Energy Smart White	Single-Ply	Bright White	0.85	0.74	0.86	0.84	107	90	+
0674-0028	Sika Corporation	**Sarnafil** TS 77-12 Traffic White 9016	Single-Ply	Bright White	0.79	0.68	0.91	0.87	99	82	+
0674-0035	Sika Corporation	**Sarnafil** S327 Energy Smart Reflective Gray | **Sarnafil** G410 Energy Smart Reflective Gray	Single-Ply	Grey	0.73	0.66	0.89	0.88	90	80	+
0674-0004	Sika Corporation	**Sarnafil** S327 Energy Smart Tan | **Sarnafil** G410 Energy Smart Tan	Single-Ply	Tan	0.73	0.65	0.85	0.86	89	78	+
0674-0039	Sika Corporation	**Sarnafil** G410 Textured Gray | **Sarnafil** S327 Textured Gray	Single-Ply	Grey	0.70	0.60	0.90	0.89	86	72	+
0674-0021	Sika Corporation	**Sarnafil** TS 77-12 Beige	Single-Ply	Tan	0.64	0.56	0.91	0.87	78	66	+
0674-0005	Sika Corporation	**Sarnafil** S327 Energy Smart Patina Green | **Sarnafil** G410 Energy Smart Patina Green	Single-Ply	Green	0.55	0.46	0.86	0.85	64	51	+
0674-0044	Sika Corporation	**Sarnafil** AT-15 | **Sarnafil** AT-18 | **Sarnafil** AT-20	Single-Ply	Off-White	0.80	Pending	0.89	Pending	100	Pending	+

Showing 1-11 of 11 results

COOL ROOF RATING COUNCIL 2435 N. Lombard St. Portland, OR 97217 TEL (866) 465-2523 EMAIL: info@coolroofs.org
ANSI ACCREDITED Certificate 3146.01

SPECIFIED BASIS OF DESIGN ROOFING PRODUCT

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E (Created 03/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: Santa Ana Court of Appeals Reroofing	Report Page:	Page 2 of 5
Project Address: 601 West Santa Ana Blvd, Santa Ana CA 92701	Date Prepared:	2021-12-01

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000 ft²	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors			
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	
	Yes						**COMPLIES**

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This Section Does Not Apply

G. RATED ROOFING MATERIAL (COOL ROOF)

Table Instructions: Complete this table to demonstrate compliance with prescriptive roof material requirements in §140.3(a)1A for new construction or additions, or §141.0(b)2B for alterations.

01 Tag / Plan Detail ID	02 Name / Description / Location	03 Status	04 Occupancy Type	05 Roof Slope	06 Roof Material	07 Compliance Method
A8.00/19	Roof Type A	Altered	Nonresidential/ Relocatable 1 CZ	< 2:12 (Low)	Single-Ply	Solar Reflectance (Aged)/ Emittance
A8.00/18	Roof Type B	Altered	Nonresidential/ Relocatable 1 CZ	< 2:12 (Low)	Single-Ply	Solar Reflectance (Aged)/ Emittance
A8.00/17	Roof Type C	Altered	Nonresidential/ Relocatable 1 CZ	< 2:12 (Low)	Single-Ply	Solar Reflectance (Aged)/ Emittance

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E (Created 03/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: Santa Ana Court of Appeals Reroofing	Report Page:	Page 5 of 5
Project Address: 601 West Santa Ana Blvd, Santa Ana CA 92701	Date Prepared:	2021-12-01

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Kimbro Frutiger	Documentation Author Signature:	K Frutiger
Company:	Architectural Resources Group	Signature Date:	12/1/2021
Address:	360 E 2nd Street Suite 225	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Los Angeles, CA 90012	Phone:	626-583-1401 ext.114

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Naomi Miroglio	Responsible Designer Signature:	Naomi Miroglio
Company :	Architectural Resources Group	Date Signed:	12/01/21
Address:	Pier 9, The Embarcadero, Suite 107	License:	22990
City/State/Zip:	San Francisco, CA 94111	Phone:	415-421-1680

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E (Created 03/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: Santa Ana Court of Appeals Reroofing	Report Page:	Page 3 of 5
Project Address: 601 West Santa Ana Blvd, Santa Ana CA 92701	Date Prepared:	2021-12-01

08 Required Minimum Material Performance		09 Designed Material Performance		10 U-factor of Assembly
Reflectance	0.63	Reflectance[1]	0.74	
Emittance	0.75	Emittance	0.84	
SRI		SRI		
Reflectance	0.63	Reflectance[1]	0.74	
Emittance	0.75	Emittance	0.84	
SRI		SRI		
Reflectance	0.63	Reflectance[1]	0.74	
Emittance	0.75	Emittance	0.84	
SRI		SRI		

Reset | Add Row | Remove Last

'FOOTNOTE: If Solar Reflectance (Initial) is indicated in column 07, enter the Initial Reflectance here and the form will convert it to a "Calculated Aged Solar Reflectance" when determining compliance.

H. WALL ASSEMBLY SCHEDULE
This Section Does Not Apply

I. FLOOR ASSEMBLY SCHEDULE
This Section Does Not Apply

J. EXTERIOR DOOR SCHEDULE
This Section Does Not Apply

K. FENESTRATION AND GLAZED DOOR SCHEDULE
This Section Does Not Apply

L. DAYLIGHT IN LARGE ENCLOSED SPACES
This Section Does Not Apply

REVIEWED
FOR
CODE COMPLIANCE
Dec 15, 2021
INTERWEST CONSULTING GROUP

Architectural Resources Group
360 E. 2nd Street, Suite 225
Los Angeles, California 90012
626.583.1401
arg-la.com

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NO.	DESCRIPTION	DATE
	REVISIONS	

SANTA ANA COURT OF APPEALS ROOF REPLACEMENT

FOURTH APPELLATE DISTRICT
DIVISION THREE

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

SHEET TITLE
TITLE 24 COMPLIANCE

ISSUANCE
100% CONSTRUCTION DOCUMENTS

12/01/21

PROJ NO.
180218.02

DRAWN
GD

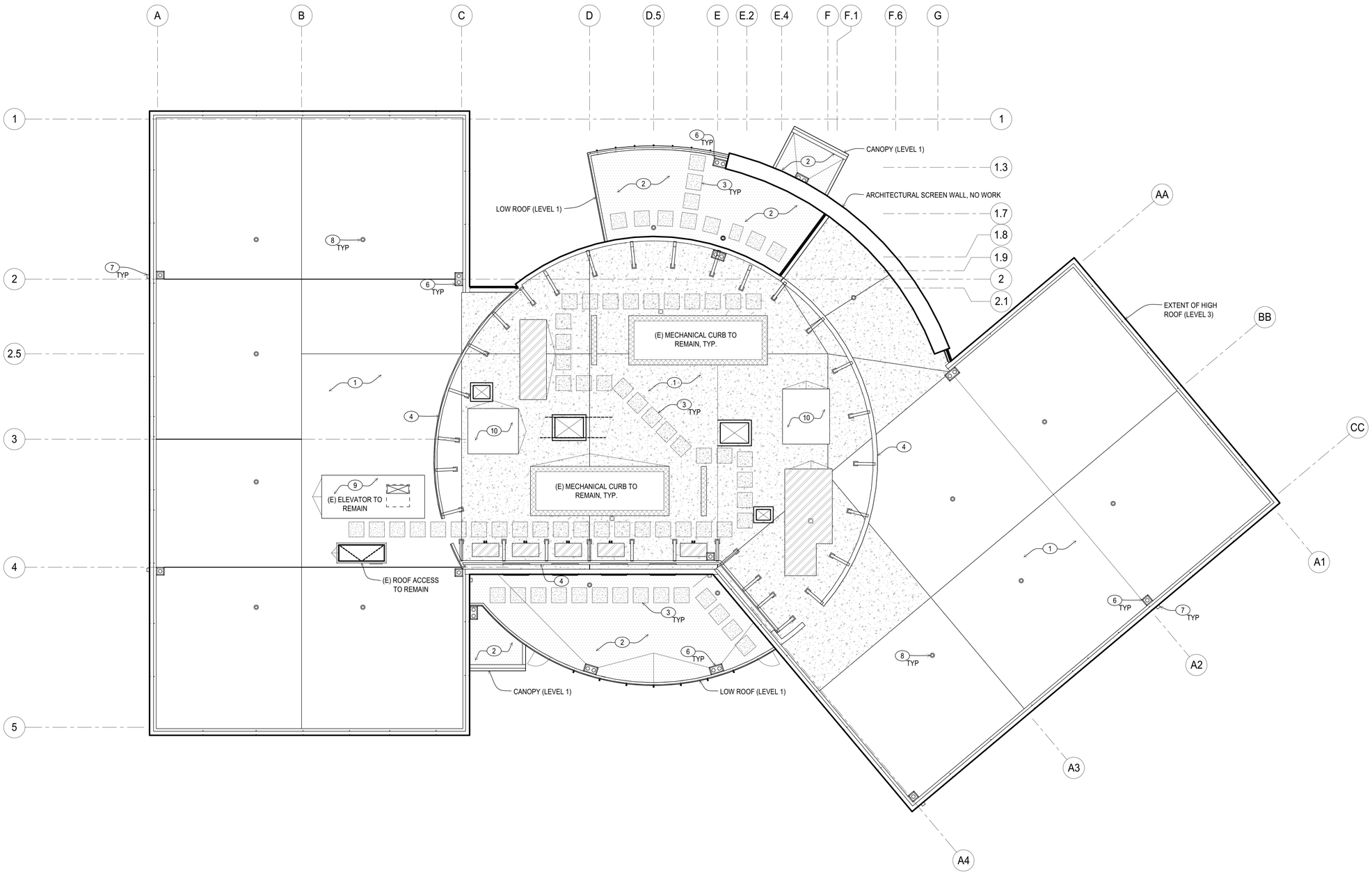
CHECKED
KF

LICENSED ARCHITECT NAOMI O. MIROGLIO NO. 22990 REN: 11-30-23 STATE OF CALIFORNIA

DRAWING NO.
T2.00

SHEET 6 OF 13 V2

30"x42" SHEET SIZE. IF SHEET SIZE IS SMALLER, THEN DRAWING HAS BEEN REDUCED.



1 ROOF DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

N

8 0 8 16

1/8" = 1'-0"

DEMOLITION NOTES

1. DIMENSIONS AND AREAS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY. VERIFY ALL DIMENSIONS IN FIELD.
2. PROVIDE FALL PROTECTION PER CA TITLE & REGULATIONS.
3. PROTECT (E) MECHANICAL EQUIPMENT, ELEC CONDUITS & EQUIPMENT, & PLUMBING FIXTURE & PIPING TO REMAIN. COMPONENTS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE WORKING SCHEDULE W/ BLDG. ENGINEER.
4. SALVAGE (E) GRAVEL BALLAST AT LEVEL 1 ROOF AND RETAIN FOR REINSTALLATION.
5. DEMOUNT ABOVE-DECK COMPONENTS OF (E) DRAINS AND OVERFLOWS AND RETAIN FOR REUSE. RETAIN BELOW DECK COMPONENTS IN PLACE.
6. ALL MECHANICAL EQUIPMENT TO REMAIN IN PLACE.

DEMOLITION KEYNOTES

1. COMPLETELY REMOVE (E) SBS MEMBRANE & SOLID INSULATION TO STRUCTURAL DECK. PERFORM STRUCTURAL INSPECTION FOR POTENTIAL STRUCTURAL REPAIR REQUIRED FOR LEAK / WATER DAMAGE. REPAIR & PREP ROOF SURFACE TO RECEIVE (N) PVC ROOFING. SEE SPECS & MFR INSTALLATION INSTRUCTIONS FOR REQUIREMENTS, TYP.
2. COMPLETELY REMOVE (E) GRAVEL BALLAST AND SBS MEMBRANE TO SURFACE OF METAL DECKING. PERFORM STRUCTURAL INSPECTION FOR POTENTIAL STRUCTURAL REPAIR REQUIRED FOR LEAK / WATER DAMAGE. REPAIR & PREP ROOF SURFACE TO RECEIVE (N) ROOFING TO MATCH EXISTING. SEE SPECS & MFR INSTALLATION INSTRUCTIONS FOR REQUIREMENTS, TYP.
3. REMOVE (E) TRAFFIC PADS.
4. RETAIN (E) MECH SCREEN IN PLACE, TYP.
5. (E) CONC CRICKET TO REMAIN, TAPERED RIGID FOAM TO BE REPLACED, TYP.
6. RETAIN (E) ROOF DRAIN IN PLACE, TYP.
7. RETAIN (E) S.M. SCUPPERS IN PLACE, TYP.
8. RETAIN (E) TIE BACK IN PLACE, TYP.
9. DEMO ROOFING AT ELEVATOR OVERRUN
10. DEMO ROOFING AT SHAFT ENCLOSURE

DEMOLITION LEGEND

- SBS ROOFING OVER PERLITE COVERBOARD OVER RIGID INSULATION DEMO TO MTL DECK
- SBS ROOFING OVER PERLITE COVERBOARD DEMO TO CONCRETE DECK
- GRAVEL BALLAST OVER BUILT-UP ROOFING OVER PERLITE COVERBOARD DEMO TO MTL DECK

DEMOLITION SYMBOLS

- (E) ROOF DRAIN AND OVERFLOW; SEE NOTES
- (E) ROOF DRAIN - ADJACENT SCUPPER PROVIDES OVERFLOW DRAINAGE; SEE NOTES
- (E) TIEBACK TO REMAIN
- (E) ROOF WALKWAY PADS TO BE REMOVED
- (E) RAISED CONCRETE PAD FOR MECHANICAL EQUIPMENT TO REMAIN
- (E) CONCRETE CURB FOR MECH EQUIP. TO REMAIN

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NO.	DESCRIPTION	DATE

REVISIONS

SANTA ANA COURT OF APPEALS ROOF REPLACEMENT

FOURTH APPELLATE DISTRICT
DIVISION THREE

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

SHEET TITLE

ROOF DEMOLITION PLAN

ISSUANCE

100% CONSTRUCTION DOCUMENTS

12/01/21

PROJ NO.
180218.02

DRAWN
GD

CHECKED
KF

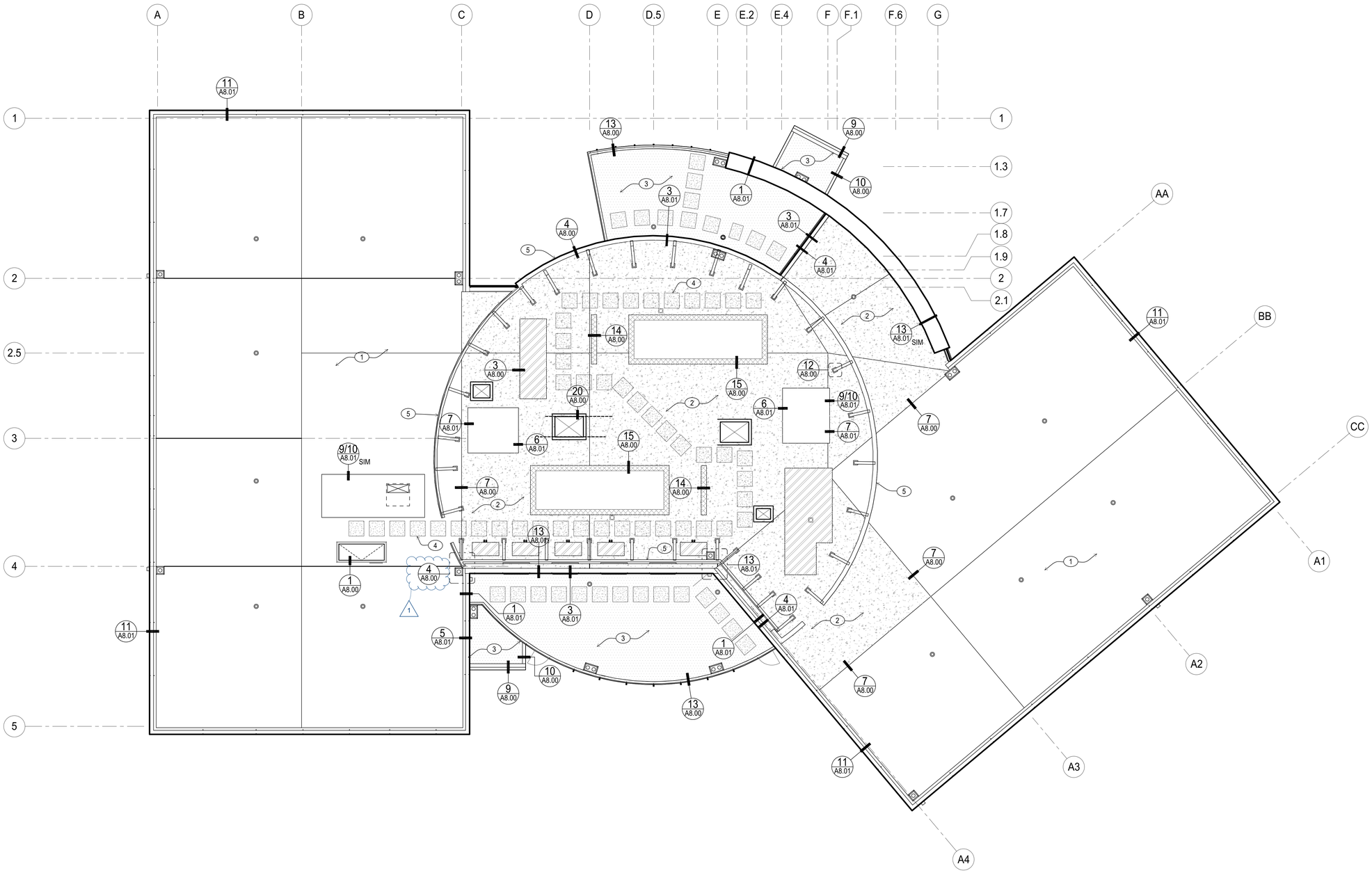
LICENSED ARCHITECT NAOMI O. MIROGLIO NO. 22990 REN. 11-30-23 STATE OF CALIFORNIA

DRAWING NO.

AD1.00

SHEET 7 OF 13

V2



1 ROOF PLAN
SCALE: 1/8" = 1'-0"

N

8 0 8 16
1/8" = 1'-0"

ROOF PLAN NOTES

1. DIMENSIONS AND AREAS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY. VERIFY ALL DIMENSIONS IN FIELD.
2. PROVIDE FALL PROTECTION PER CA TITLE & REGULATIONS.
3. PROTECT (E) MECHANICAL EQUIPMENT, ELEC CONDUITS & EQUIPMENT, & PLUMBING FIXTURE & PIPING TO REMAIN. COMPONENTS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, COORDINATE WORKING SCHEDULE W/ BLDG. ENGINEER.
4. MATCH EXISTING ROOF HEIGHTS AND PROFILES IN NEW WORK.
5. SEE A1.01 FOR ROOF SLOPE PLAN.
6. REINSTALL SALVAGED ABOVE-DECK COMPONENTS OF (E) DRAINS AND OVERFLOWS.
7. BUILDING TO REMAIN OPERATIONAL DURING CONSTRUCTION, PROTECT (E) MECH/ELEC EQUIPMENT, DUCTWORK, CONDUIT, & PIPING ON ROOF.
8. COMPLY W/ ROOFING MFR'S INSTALLATION INSTRUCTIONS AND SPECIFICATION FOR ROOFING APPLICATION, FLASHING AND EDGE TREATMENT.

ROOF PLAN KEYNOTES

1. (N) ROOF TYPE A
2. (N) ROOF TYPE B
3. (N) ROOF TYPE C
4. (N) TRAFFIC PADS
5. (E) MECHANICAL SCREEN TO REMAIN

ROOF PLAN LEGEND

ROOF TYPE A (SEE DETAILS 19/A8.00)
PVC ROOFING OVER
1/2" COVER BOARD OVER
5" RIGID INSULATION (AVG, SLOPED TO DRAIN) OVER
(E) 1-1/2" METAL DECK
(E) (R-30 ASSEMBLY)

ROOF TYPE B (SEE DETAIL 18/A8.00)
PVC ROOFING OVER
1/2" COVER BOARD OVER
(E) 4-1/2" NORMAL WEIGHT CONCRETE OVER
(E) VENTED 3" METAL DECK
(E) (R-30 BATT INSULATION HUNG UNDER METAL DECK)

ROOF TYPE C (SEE DETAIL 17/A8.00)
(R) DECORATIVE GRAVEL BALLAST OVER
PVC ROOFING OVER
1-1/2" COVER BOARD OVER
(E) 1-1/2" METAL DECK
(E) (R-30 BATT INSULATION HUNG UNDER METAL DECK)

ROOF PLAN SYMBOLS

- ROOF DRAIN AND OVERFLOW (SEE DETAIL 8/A8.00)
- ROOF DRAIN - ADJACENT SCUPPER PROVIDES OVERFLOW DRAINAGE (SEE DETAIL 4/A8.00 FOR TYPE A ROOF AND 5/A8.00 FOR TYPE B ROOF)
- TIEBACK (SEE DETAIL 21/A8.00 FOR FLASHING)
- ROOF WALKWAY PADS, APPROX. 3'X3' SQUARE
- RAISED CONCRETE PAD FOR MECHANICAL EQUIPMENT (SEE DETAILS 3/A8.00 FOR FLASHING)
- CONCRETE CURB FOR MECH EQUIP.
- ROOF RECEPTOR SEE DETAIL 6/A8.00

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NO.	DESCRIPTION	DATE
1	OSFM CORRECTIONS	02/07/22

REVISIONS

SANTA ANA COURT OF APPEALS ROOF REPLACEMENT

FOURTH APPELLATE DISTRICT
DIVISION THREE

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

SHEET TITLE
ROOF PLAN

ISSUANCE
100% CONSTRUCTION DOCUMENTS
12/01/21

PROJ NO.
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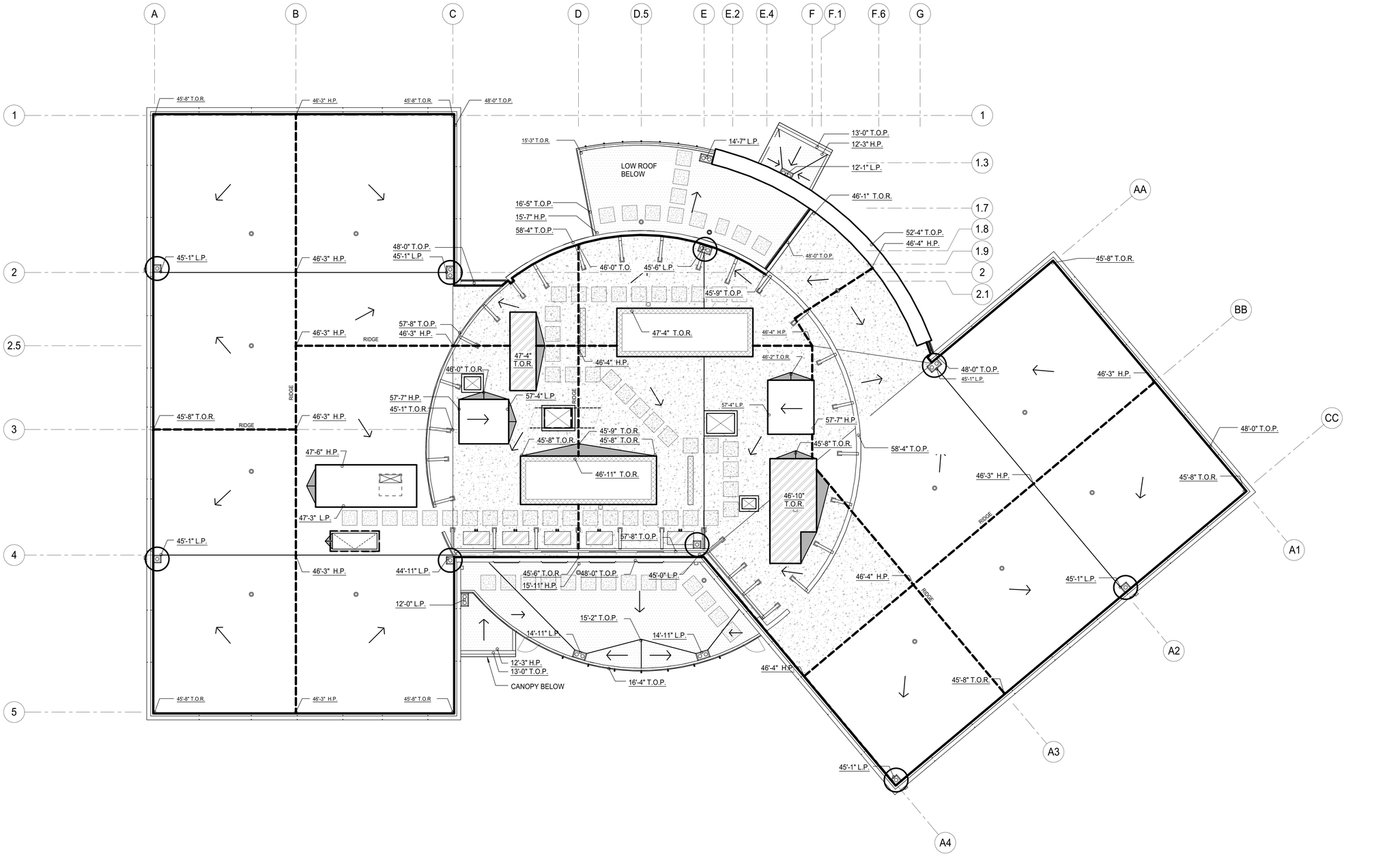
GD
CHECKED
KF

LICENSED ARCHITECT
NADIM O. MIRQUED
NO. 22990
REN. 11-30-23
STATE OF CALIFORNIA

DRAWING NO.
A1.00
SHEET 8 OF 13
V2



1 ROOF SLOPE PLAN
SCALE: 1/8" = 1'-0"

N

8 0 8 16
1/8" = 1'-0"

ROOF SLOPE GENERAL NOTES

1. RECONSTRUCT CRICKETS, TYP.
2. ALL SLOPES AND PROFILES TO MATCH EXISTING.
3. R30 AGGREGATE VALUE FOR ROOF AREAS.

ROOF SLOPE LEGEND

ROOF TYPE A (SEE DETAILS 19/A8.00)
PVC ROOFING OVER
1/2" COVER BOARD OVER
5" RIGID INSULATION (AVG, SLOPED TO DRAIN) OVER
(E) 1-1/2" METAL DECK
(E) (R-30 ASSEMBLY)

ROOF TYPE B (SEE DETAIL 18/A8.00)
PVC ROOFING OVER
1/2" COVER BOARD OVER
(E) 4-1/2" NORMAL WEIGHT CONCRETE OVER
(E) VENTED 3" METAL DECK
(E) (R-30 BATT INSULATION HUNG UNDER METAL DECK)

ROOF TYPE C (SEE DETAIL 17/A8.00)
(R) DECORATIVE GRAVEL BALLAST OVER
PVC ROOFING OVER
1-1/2" COVER BOARD OVER
(E) 1-1/2" METAL DECK
(E) (R-30 BATT INSULATION HUNG UNDER METAL DECK)

ROOF SLOPE SYMBOLS

- ROOF DRAIN AND OVERFLOW (SEE DETAIL 8/A8.00)
- ROOF DRAIN - ADJACENT SCUPPER PROVIDES OVERFLOW DRAINAGE (SEE DETAIL 4/A8.00 FOR TYPE A ROOF AND 5/A8.00 FOR TYPE B ROOF)
- TIEBACK (SEE DETAIL 21/A8.00 FOR FLASHING)
- ROOF WALKWAY PADS, APPROX. 3'X3' SQUARE
- RAISED CONCRETE PAD FOR MECHANICAL EQUIPMENT (SEE DETAILS 3/A8.00 FOR FLASHING)
- CONCRETE CURB FOR MECH EQUIP.
- ROOF RECEPTOR SEE DETAIL 6/A8.00

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FOURTH APPELLATE DISTRICT
DIVISION THREE

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SANTA ANA, CA 92701

SHEET TITLE

ROOF SLOPE PLAN

ISSUANCE

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12/01/21

PROJ NO.
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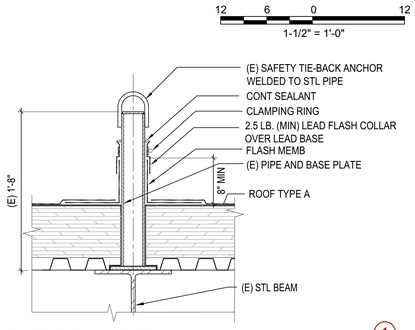
LICENSED ARCHITECT
NAOMI O. MIROGLIO
NO. 22990
REN. 11-30-2023
STATE OF CALIFORNIA

DRAWING NO.

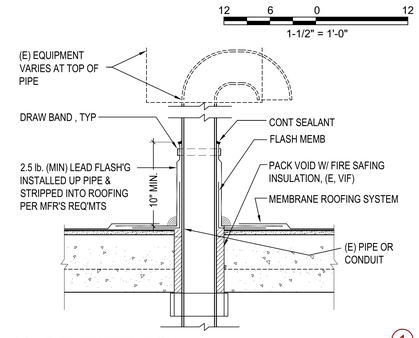
A1.01

SHEET 9 OF 13

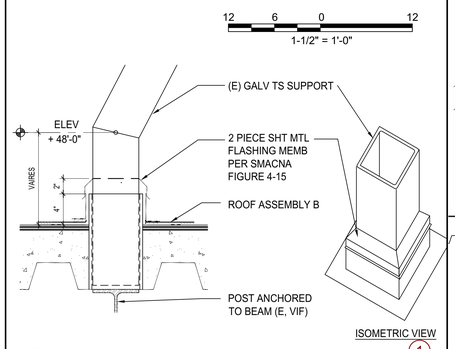
V2



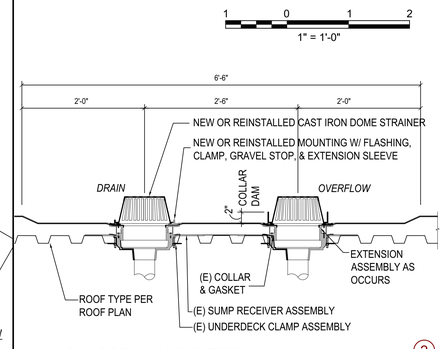
21 TIE-BACK ANCHOR (1)
.DWG SCALE: 1-1/2" = 1'-0"



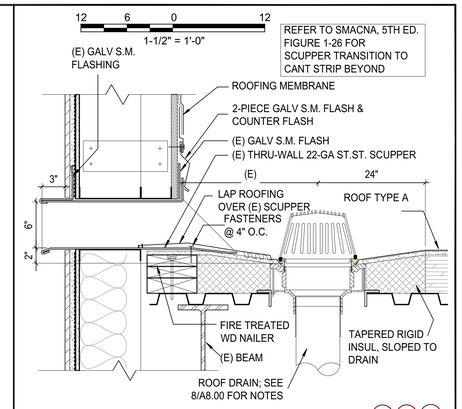
16 PIPE PENETRATION (1)
.DWG SCALE: 1-1/2" = 1'-0"



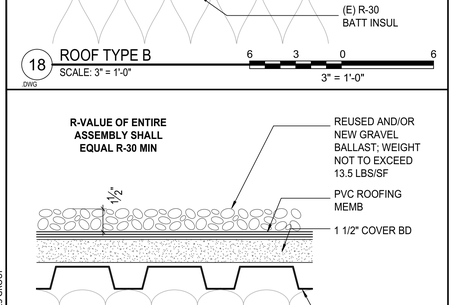
12 SCREEN WALL BRACE BASE (1)
.DWG SCALE: 1-1/2" = 1'-0"



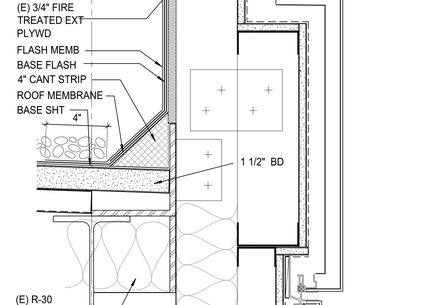
8 ROOF DRAIN AND OVERFLOW (2)
.DWG SCALE: 1" = 1'-0"



4 ROOF DRAIN AND SCUPPER @ ROOF TYPE A (2) (3) (5)
.DWG SCALE: 1 1/2" = 1'-0"



20 DUCT PENETRATION W/ CURB (3) (4)
.DWG SCALE: 1-1/2" = 1'-0"



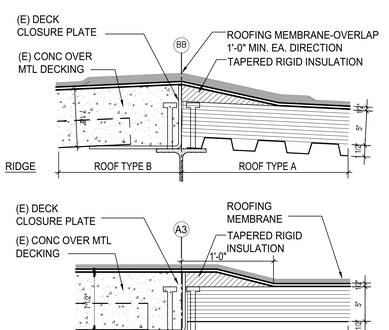
15 MECHANICAL UNIT CURB (3) (4)
.DWG SCALE: 1 1/2" = 1'-0"

DETAIL REFERENCE NOTES

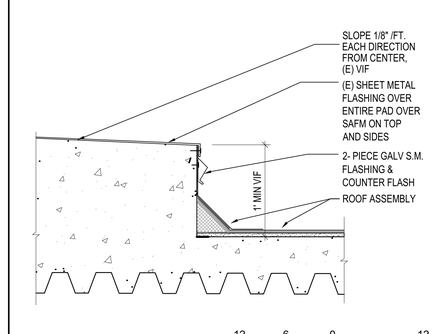
1. LIQUID FLASHING APPROVED BY MANUFACTURER FOR USE WITH ROOFING MEMBRANE CHOSEN FOR PROJECT MAY BE USED IN PLACE OF MECHANICAL FLASHING SHOWN IF PRE-APPROVED BY OWNER.
2. RETAIN UNDERDECK COMPONENTS OF DRAINAGE ASSEMBLIES IN PLACE. DEMOUNT ABOVE-DECK ELEMENTS AS NEEDED FOR DEMOLITION AND REROOFING WORK. REINSTALL ABOVE-DECK ELEMENTS OR REPLACE WITH EQUAL.
3. WHERE (E) FLASHING ASSEMBLIES KEY INTO (E) FABRIC NOT TO BE DEMOLISHED, LEAVE FLASHING ATTACHED AT TOP EDGE AND FOLD UP MIN REQ TO ACCESS ELEMENTS TO BE DEMOLISHED. RUN NEW ROOFING ASSEMBLIES UP UNDER FLASHING AND FOLD BACK TO ORIGINALLY INSTALLED POSITION. REMEDIATE CORNER JOINTS AND ANY OTHER AREAS OF (E) FABRIC AFFECTED BY THIS PROCEDURE.
4. ALL CANT STRIPS, NAILERS, AND OTHER INCIDENTAL ROOF ASSEMBLY BACK-UP ARE TO BE REPLACES WITH NEW, COMPATIBLE WITH ROOFING MEMBRANCE CHOSEN FOR THE PROJECT.
5. RETAIN SCUPPER ASSEMBLIES IN PLACE.

10 LEVEL 1 CANOPY - SIDE EDGE (3) (4)
.DWG SCALE: 3" = 1'-0"

9 LEVEL 1 CANOPY - FRONT EDGE (3) (4)
.DWG SCALE: 3" = 1'-0"



7 ROOF TYPE TRANSITIONS
.DWG SCALE: 1-1/2" = 1'-0"



3 EQUIPMENT PAD (3) (4)
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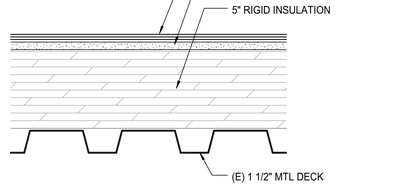
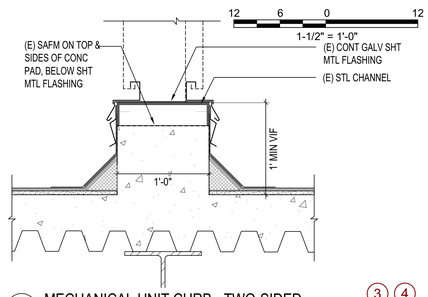
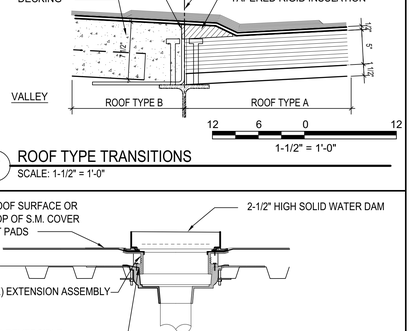


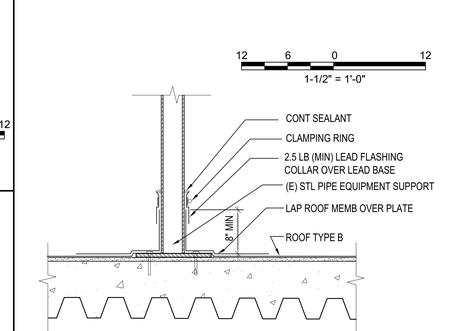
19 ROOF TYPE A
.DWG SCALE: 3" = 1'-0"



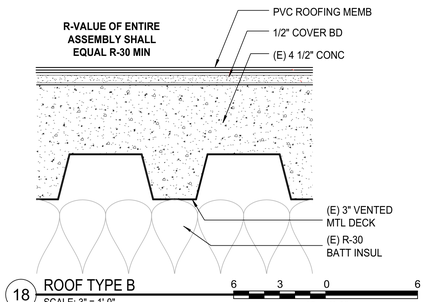
14 MECHANICAL UNIT CURB - TWO-SIDED (3) (4)
.DWG SCALE: 1 1/2" = 1'-0"



5 ROOF DRAIN AND SCUPPER @ ROOF TYPE B (2) (3) (5)
.DWG SCALE: 1-1/2" = 1'-0"



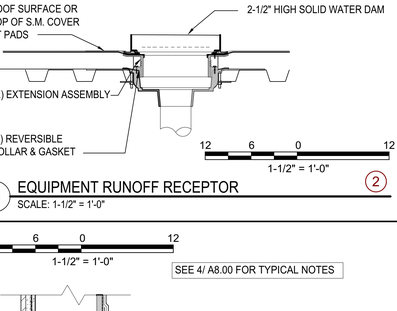
1 ROOF ACCESS HATCH (3) (4)
.DWG SCALE: 1-1/2" = 1'-0"



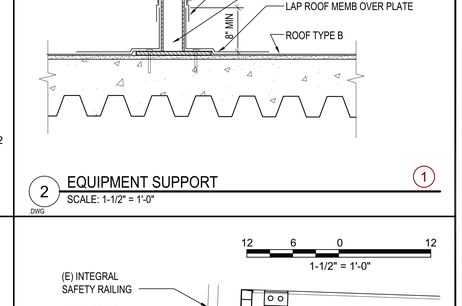
18 ROOF TYPE B
.DWG SCALE: 3" = 1'-0"

13 LEVEL 1 TYP PARAPET (3) (4)
.DWG SCALE: 3" = 1'-0"

17 ROOF TYPE C
.DWG SCALE: 3" = 1'-0"



6 EQUIPMENT RUNOFF RECEPTOR (2)
.DWG SCALE: 1-1/2" = 1'-0"



2 EQUIPMENT SUPPORT (1)
.DWG SCALE: 1-1/2" = 1'-0"

30"x42" SHEET SIZE. IF SHEET SIZE IS SMALLER, THEN DRAWING HAS BEEN REDUCED.

Architectural Resources Group
360 E. 2nd Street, Suite 225
Los Angeles, California 90012
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APPROVED FIRE AND PANIC ONLY
12/01/22
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

NO.	DESCRIPTION	DATE
	REVISIONS	

SANTA ANA COURT OF APPEALS ROOF REPLACEMENT

FOURTH APPELLATE DISTRICT
DIVISION THREE

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

SHEET TITLE

ROOF DETAILS 1

ISSUANCE

100% CONSTRUCTION DOCUMENTS

12/01/21

PROJ NO.
180218.02

DRAWN
GD

CHECKED
KF

LICENSED ARCHITECT NAOMI O. MIROGLIO NO. 22990 REN. 11-30-23 STATE OF CALIFORNIA

REVIEWED
FOR
CODE COMPLIANCE
Dec 15, 2021
INTERWEST CONSULTING GROUP

DRAWING NO.

A8.00

SHEET 10 OF 13

V2

6 3 0 6

3" = 1'-0"

DETAIL REFERENCE NOTES

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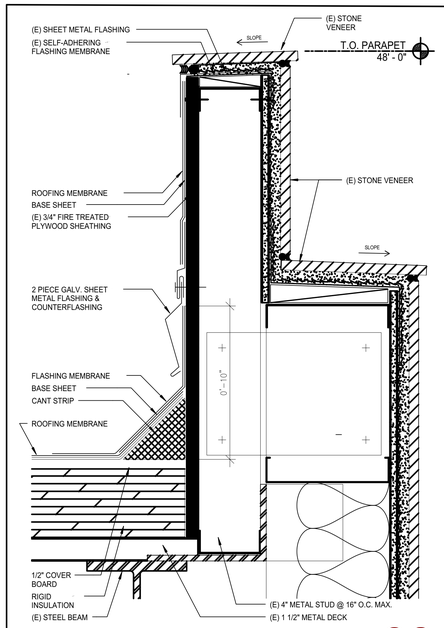
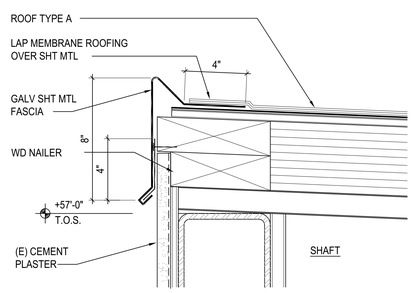
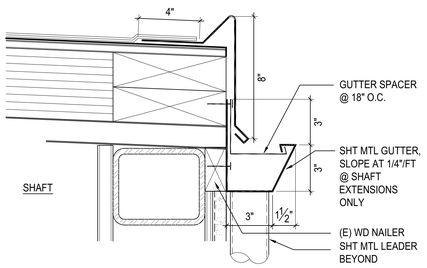
5. RETAIN SCUPPER ASSEMBLIES IN PLACE.



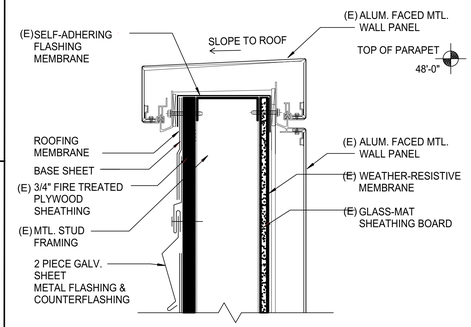
11 TYP LEVEL 3 PARAPET (ALT CONDITION) 3 4
.DWG SCALE: 3" = 1'-0"



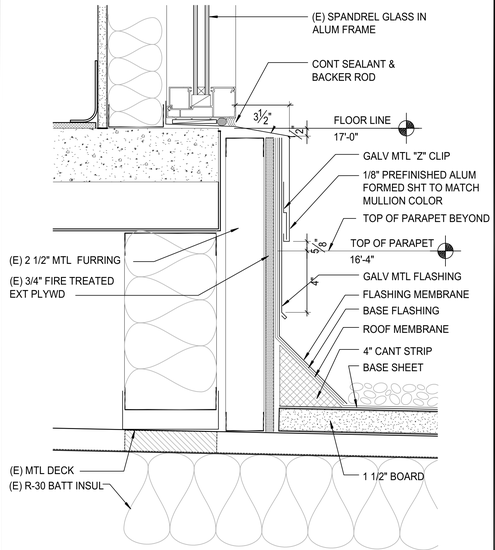
7 SHAFT ENCLOSURE - HIGH EDGE 3 4
.DWG SCALE: 3" = 1'-0"



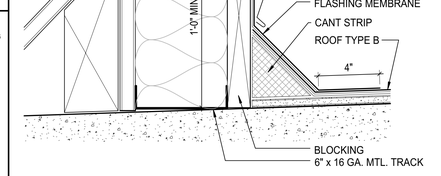
6 SHAFT ENCLOSURE - LOW EDGE 3 4
.DWG SCALE: 3" = 1'-0"



4 LEVEL 3 PARAPET AT STOREFRONT-TYPE WALL 3 4
.DWG SCALE: 3" = 1'-0"



3 LEVEL 1 ROOF AT STOREFRONT WALL 3 4
.DWG SCALE: 3" = 1'-0"



10 SHAFT ENCLOSURE - BASE (ALT CONDITION) 3 4
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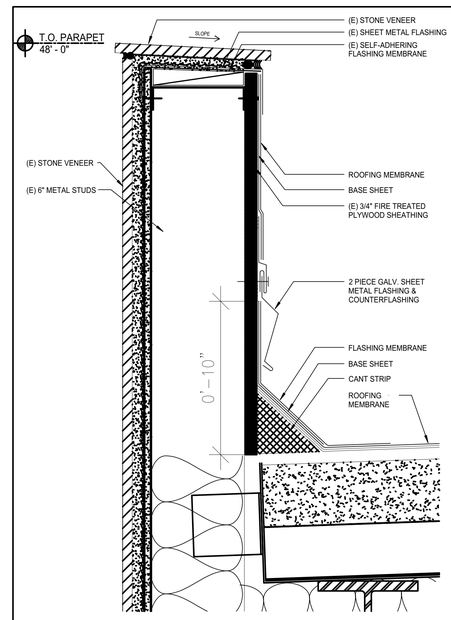
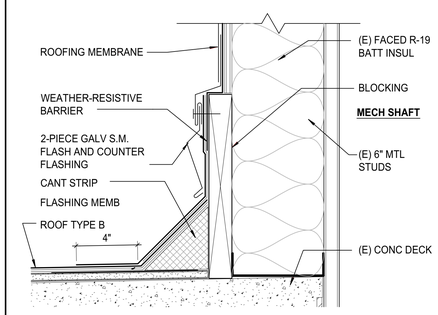
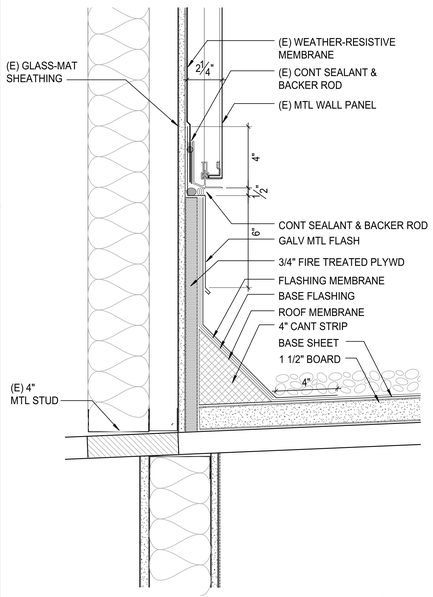


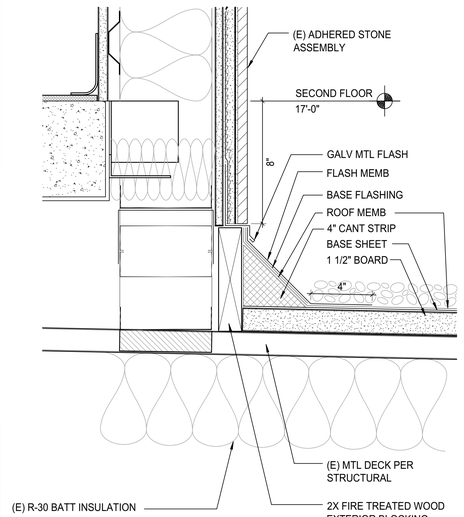
13 TYP LEVEL 3 PARAPET 3 4
.DWG SCALE: 3" = 1'-0"



9 SHAFT ENCLOSURE - BASE 3 4
.DWG SCALE: 3" = 1'-0"



5 LEVEL 1 CANOPY AT WALL 3 4
.DWG SCALE: 3" = 1'-0"



1 LEVEL 1 ROOF AT MASONRY-CLAD WALL 3 4
.DWG SCALE: 3" = 1'-0"

REVIEWED
CODE COMPLIANCE
Dec 15, 2021
INTERWEST CONSULTING GROUP

Architectural Resources Group
360 E. 2nd Street, Suite 225
Los Angeles, California 90012
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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
02/11/22
21-7764
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

NO.	DESCRIPTION	DATE
	REVISIONS	

SANTA ANA COURT OF APPEALS ROOF REPLACEMENT

FOURTH APPELLATE DISTRICT
DIVISION THREE

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

SHEET TITLE

ROOF DETAILS 2

ISSUANCE

100% CONSTRUCTION DOCUMENTS

12/01/21

PROJ NO.
180218.02

DRAWN
GD

CHECKED
KF

LICENSED ARCHITECT
NAOMI O. MIROGLIO
NO. 22990
RENEWAL 11-30-23
STATE OF CALIFORNIA

DRAWING NO.

A8.01

SHEET 11 OF 13

V2

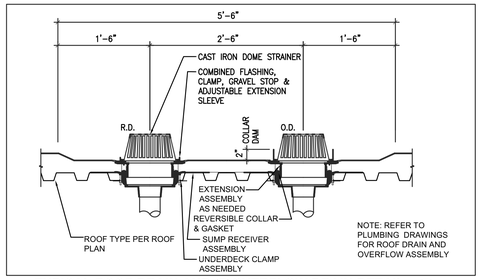
30"x42" SHEET SIZE. IF SHEET SIZE IS SMALLER, THEN DRAWING HAS BEEN REDUCED.

GENERAL NOTES

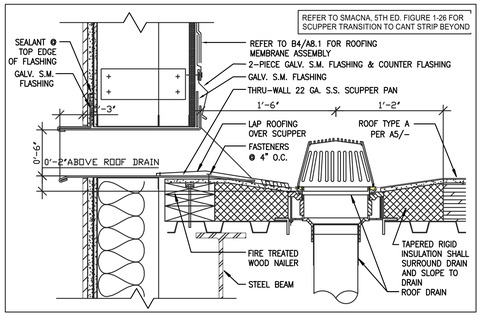
1. CONTRACTOR SHALL REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BEGINNING WORK. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING STRUCTURAL, AND ELECTRICAL) PRIOR TO BID, TO INSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO BEGINNING WORK.
2. ALL WORK SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND OTHER DISCIPLINES.
3. AS A MINIMUM STANDARD, ALL WORK SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA MECHANICAL CODE (CMC). CALIFORNIA PLUMBING CODE (CPC), NATIONAL FIRE PROTECTION AGENCY (NFPA) AND CALIFORNIA STATE ENERGY CONSERVATION CODE TITLE 24.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE INSTALLED CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS.
5. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED WORK. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
6. PLUMBING CONTRACTOR SHALL FURNISH ALL MATERIALS FOR, AND MAKE CONNECTIONS TO ALL EQUIPMENT NOT IN THIS SECTION (N.I.T.S.) IN ORDER TO MAKE A COMPLETE, WORKABLE INSTALLATIONS.
7. SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO FULLY COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
8. PROVIDE ACCESS AND CLEARANCE FOR MAINTENANCE FOR EQUIPMENT AND COMPONENTS AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER AND APPLICABLE CODES.
9. CUTTING, BORING, SAW CUTTING, OR DRILLING THROUGH NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED ON THE DRAWINGS OR ACCEPTED BY ARCHITECT WITH THE APPROVAL OF AUTHORITY HAVING JURISDICTION.
10. INSTALL ALL PIPING IN A MANNER THAT WILL AVOID INTERFERENCE WITH THE ELECTRICAL AND MECHANICAL WORK.
11. CONTRACTOR TO COORDINATE ALL WORK WITH OTHER TRADES PRIOR INSTALLATION OF PIPING AND EQUIPMENT.
12. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, DEPTH, SIZE AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
13. ALL ROOF DRAINS,OVERFLOW DRAINS AND RAINWATER PIPING WITHIN THE INTERIOR OF THE BUILDING SHALL BE TESTED IN ACCORDANCE WITH THE PROVISIONS OF THE PLUMBING CODE FOR TESTING DRAIN,WASTE AND VENT SYSTEMS.
14. OVERFLOW DRAINS HAVING THE SAME SIZE AS THE ROOF DRAINS SHALL BE INSTALLED WITH THE INLET FLOW LINE BEING LOCATED 2" ABOVE THE LOW POINT OF THE ROOF.
15. ROOF DRAINS AND OVERFLOW PIPING WITHIN THE BUILDING SHALL UTILIZE APPROVED DRAINAGE FITTINGS.
16. PROVIDE ROOF CRICKETS FOR TRANSITIONAL AREAS AROUND ROOF TOP EQUIPMENT. CPC1101.2 (REFER TO ARCHITECTURAL SHEETS FOR SPECIFIC INFO.)
17. STORM WATER SHALL BE TESTED IN ACCORDANCE WITH CPC 1107.0

CONSTRUCTION NOTES

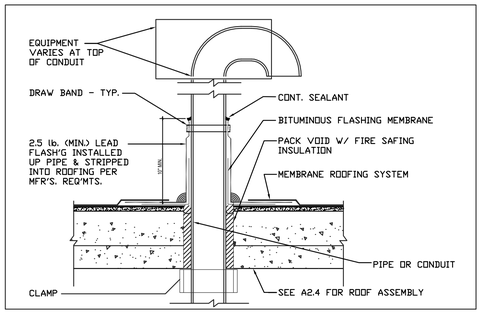
1. CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, ACTUAL POINT OF CONNECTION OF NEW PIPING TO EXISTING PIPING AND/OR NEW EQUIPMENT AND AVAILABILITY OF ALL ITEMS BEFORE COMMENCING ANY WORK.
2. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH ACCEPTABLE INDUSTRY STANDARDS. CONTRACTOR SHALL PROVIDE OFFSETS, TRANSITION, ETC. AS REQUIRED (NOT SHOWN FOR CLARITY) FOR COMPLETE AND OPERABLE INSTALLATION AT NO ADDITIONAL COST TO THE CLIENT.
3. NEW PLUMBING FIXTURES/EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS INCLUDING EQUIPMENT LOCATIONS, POINT OF CONNECTIONS, AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURERS RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
4. ALL DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR PROMPT DAILY REMOVAL FROM THE SITE. REMOVE ALL DEBRIS FROM THE SITE RESULTING FROM THE WORK AT THE CONCLUSION OF DAILY CONSTRUCTION. REMOVE ALL TEMPORARY CONSTRUCTION FROM THE SITE. THE AREA OF THE SITE SHALL BE LEFT BROOM CLEAN. IF NOT, UPON NOTIFICATION, OWNER WILL PERFORM ALL NECESSARY CLEAN-UP WORK AND BACK CHARGE THE CONTRACTOR FOR THE EXPENSE THUS INCURRED.
5. ALL EQUIPMENT, MATERIAL, AND ALL CONNECTIONS THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURERS INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
6. CONTRACTOR MAY, AT HIS OPTION, REVISE PIPE ROUTING TO ALLOW FOR INSTALLATION IN THE AVAILABLE SPACE.
7. ALL WORK SHALL BE BASED ON MINIMIZING DISRUPTIONS TO EXISTING BUILDING OPERATION AND SHALL BE PERFORMED IN ACCORDANCE WITH THE WORK SCHEDULE APPROVED BY THE OWNER.
8. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES IN THE AREA OF WORK WHICH ARE NOT INCLUDED IN THIS CONSTRUCTION. ANY DAMAGE RESULTING FROM THIS WORK SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE CAMPUS.



TYPICAL ROOF DRAIN AND (E)OVERFLOW DRAIN DETAIL 1



TYPICAL ROOF DRAIN AND (E)SCUPPER @ ROOF TYPE A 2



TYPICAL ROOF DETAIL - FLASHING @ PIPE PENETRATION 3

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
——— OD ———	OD	OVERFLOW DRAIN
——— SD ———	SD	STORM DRAIN
———+○		PIPE ELBOW UP
———+⊃		PIPE ELBOW DOWN
	(E)	EXISTING TO REMAIN

APPLICABLE CODES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CODES:

2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
2019 CALIFORNIA ENERGY CODE, TITLE 24, PART 6

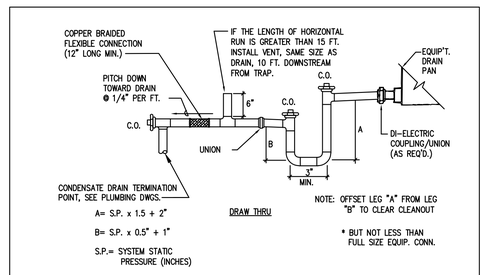
PLUMBING PIPE MATERIALS SCHEDULE

SERVICES	LOCATION	CAST IRON NO HUB, SERVICE WEIGHT, CISPI STD. 301 OR ASTM A-74	REMARKS
STORM DRAIN	INSIDE, ABOVE GROUND	●	NO HUB COUPLINGS, TYPE 304 STAINLESS STEEL FM CLASS 1, ASTM C1540

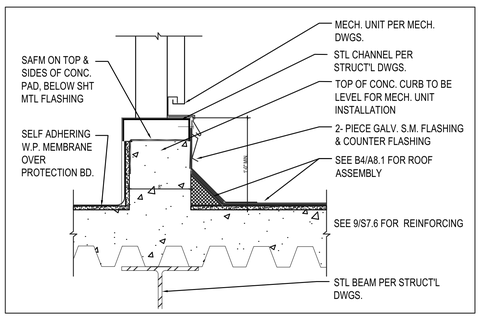
DRAWING INDEX

PLUMBING FIXTURE SCHEDULE

SYMBOLS	FIXTURES	QTY	NOTES
(E)4"RD-1 & (E)4"OD-1	(E)COMBINATION ROOF & (E)OVERFLOW DRAIN	1	EXISTING ROOF DRAIN SYSTEM
(E)3"RD-1 & (E)3"OD-1	(E)COMBINATION ROOF & (E)OVERFLOW DRAIN	2	EXISTING ROOF DRAIN SYSTEM
(E)3"RD-2 & (E)3"OD-2	(E)COMBINATION ROOF & (E)OVERFLOW DRAIN	4	EXISTING ROOF DRAIN SYSTEM
(E)3"RD-3 & (E)3"OD-3	(E)COMBINATION ROOF & (E)OVERFLOW DRAIN	1	EXISTING ROOF DRAIN SYSTEM
(E)4"RD-1 & SCUPPER	(E)ROOF DRAIN & SCUPPER	4	EXISTING ROOF DRAIN SYSTEM
(E)3"RD-1 & SCUPPER	(E)ROOF DRAIN & SCUPPER	2	EXISTING ROOF DRAIN SYSTEM
(E)2"RR-1	(E)ROOF RECEPTOR	2	EXISTING ROOF DRAIN SYSTEM
	TOTAL	16	



TYPICAL CONDENSATE DRAIN DETAIL 5



TYPICAL ROOF DETAIL - TYP. MECHANICAL UNIT PAD 4

12 6 0 12
1-1/2" = 1'-0"

REVIEWED
FOR
CODE COMPLIANCE
Dec 15, 2021
INTERWEST CONSULTING GROUP

REGISTERED PROFESSIONAL ENGINEER
DALE E. AU
No. 21865
12-31-21
MECHANICAL
STATE OF CALIFORNIA

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JOB NO.: 0TH-049-21

Architectural Resources Group
360 E. 2nd Street, Suite 225
Los Angeles, California 90012
626.583.1401
arg-la.com

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
12/15/22
21-87694
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

DESCRIPTION	DATE
REVISIONS	

SANTA ANA COURT OF APPEALS ROOF REPLACEMENT

FOURTH APPELLATE DISTRICT
DIVISION THREE

601 WEST SANTA ANA BOULEVARD
SANTA ANA, CA 92701

SHEET TITLE
PLUMBING NOTES, LEGENDS, SYMBOLS &DETAILS

ISSUANCE
100% CONSTRUCTION DOCUMENTS
12/01/21

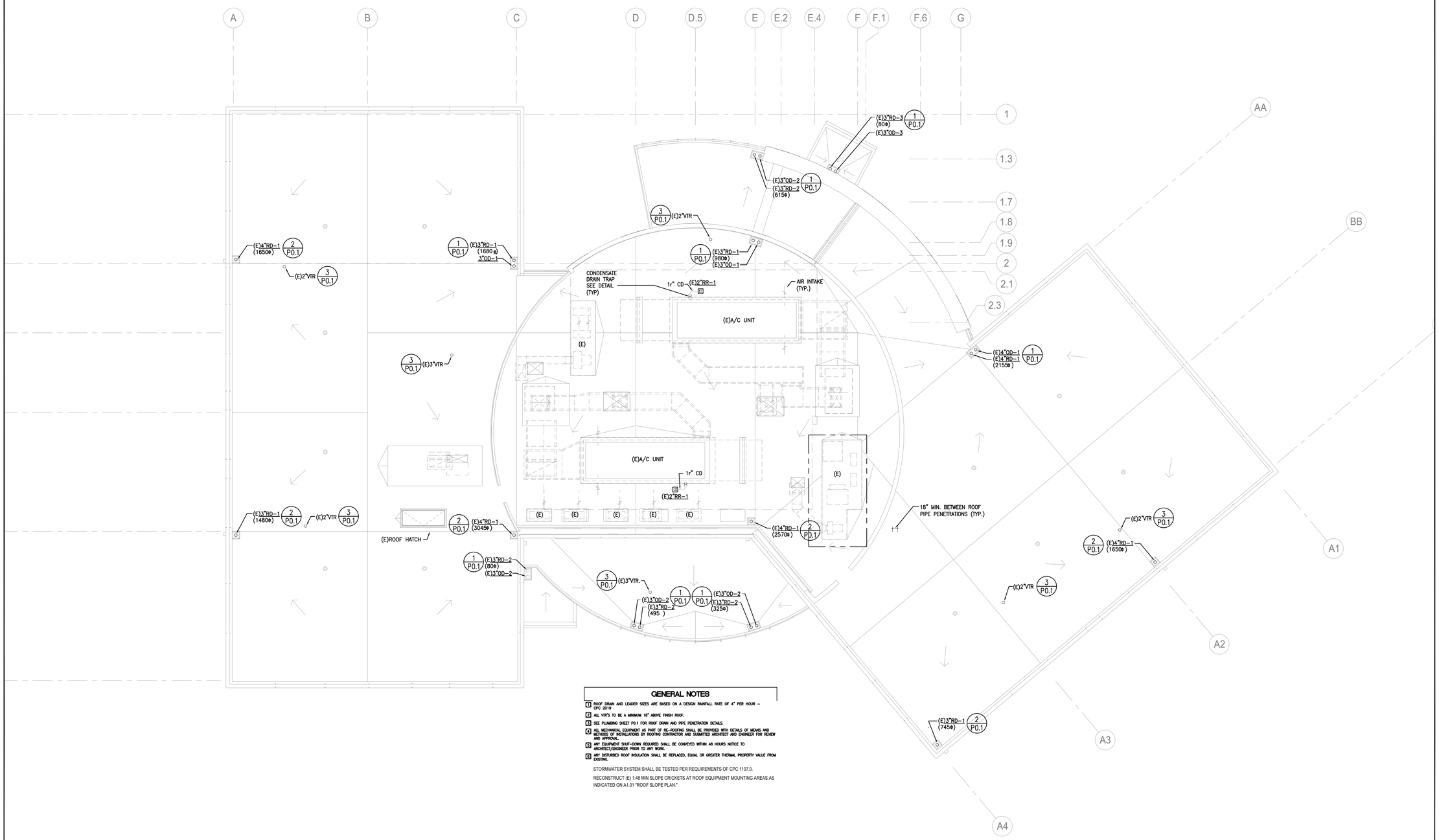
PROJ NO.
180218.02

DRAWN

CHECKED

DRAWING NO.
P0.1
SET-SHEET-NO.12
V2

30"x42" SHEET SIZE. IF SHEET SIZE IS SMALLER, THEN DRAWING HAS BEEN REDUCED.



GENERAL NOTES

1. ROOF DRAIN AND LEADER SIZES ARE BASED ON A DESIGN RAINFALL RATE OF 4" PER HOUR – CPC 2019
2. ALL VTR'S TO BE A MINIMUM 18" ABOVE FINISH ROOF.
3. SEE PLUMBING SHEET P0.1 FOR ROOF DRAIN AND PIPE PENETRATION DETAILS.
4. ALL MECHANICAL EQUIPMENT AS PART OF RE-ROOFING SHALL BE PROVIDED WITH DETAILS OF MEANS AND METHODS OF INSTALLATIONS BY ROOFING CONTRACTOR AND SUBMITTED ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL.
5. ANY EQUIPMENT SHUT-DOWN REQUIRED SHALL BE CONVEYED WITHIN 48 HOURS NOTICE TO ARCHITECT/ENGINEER PRIOR TO ANY WORK.
6. ANY DISTURBED ROOF INSULATION SHALL BE REPLACED, EQUAL OR GREATER THERMAL PROPERTY VALUE FROM EXISTING.

STORMWATER SYSTEM SHALL BE TESTED PER REQUIREMENTS OF CPC 1107.0.

RECONSTRUCT (E) 1:48 MIN SLOPE CRICKETS AT ROOF EQUIPMENT MOUNTING AREAS AS INDICATED ON A1.01 "ROOF SLOPE PLAN."

1 P0.1 .DWG PLUMBING REMODEL ROOF PLAN
SCALE: 1/8" = 1'-0"

N

4 0 4 8
1/8" = 1'-0"

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