

TERRA LINDA HIGH SCHOOL SHADE STRUCTURE & ENTRY CANOPY

320 Nova Albion Way, San Rafael, CA 94903 SAN RAFAEL CITY SCHOOLS

DSA FILE NO: 21-H1 PTN: 65466-45 DSA APPLICATION NO: 01-120767

PROJECT TEAM

OWNER

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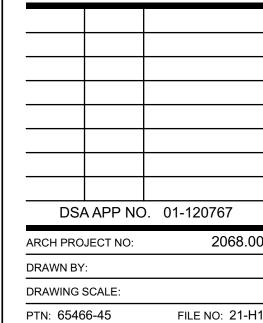
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TERRA LINDA HIGH SCHOOL

SHADE STRUCTURE & ENTRY CANOPY

320 Nova Albion Way San Rafael, CA 94903



APRIL 18, 2023

COVER SHEET

G-0.1

ABBREVIATIONS

ABBREVIATIONS							
&	AND	GA	GAUGE	S			
L @	ANGLE AT	GALV GB	GALVANIZED GRAB BAR	S.A.D. S.AV.D.			
Ę	CENTERLINE	GC GI	GENERAL CONTRACTOR	SC S.C.D.			
II .	FEET INCHES	GL	GALVANIZED IRON GLASS/ GLAZING	SCHED			
d #	PENNY POUND/ NUMBER	GLB GND	GLUE LAMINATED BEAM GROUND	SD SECT			
AB	ANCHOR BOLT	GR GYP BD	GRADE GYPSUM BOARD	S.E.D. SEP			
ABBREV	ABBREVIATION			S.F.PD.			
AC A/C	ASPHALT CONCRETE AIR CONDITIONING	HB HC	HOSE BIBB HOLLOW CORE	SHTG SIM			
ACC ACOUS	ACCESSIBLE ACOUSTICAL	HDR HDWD	HEADER HARDWOOD	SL S.L.D.			
AC T AD	ACOUSTICAL TILE AREA DRAIN	HDWR HM	HARDWARE HOLLOW METAL	SM S.M.D.			
ADJ	ADJUSTABLE	HOR	HORIZONTAL	SOV			
A.F.F. AGG	ABOVE FINISH FLOOR AGGREGATE	HP HR	HIGH POINT HOUR	S.P.D. SPEC			
ALUM ANOD	ALUMINUM ANODIZED	HSS HT	HOLLOW STEEL SECTION HEIGHT	SPKR SQ			
APPROX ARCH	APPROXIMATE ARCHITECTURAL	HTG HVAC	HEATING HEATING, VENTILATING,	SS S.S.D.			
ASPH	ASPHALT	TIVAO	AIR-CONDITIONING	S.TH.D. STA			
BD	BOARD	ID	INSIDE DIAMETER	STD			
BITUM BLDG	BITUMINOUS BUILDING	INSUL INT	INSULATION INTERIOR	STL STOR			
BLK BLKG	BLOCK	INTEG INTERMED	INTEGRAL INTERMEDIATE	STRUCT SUSP			
BM	BLOCKING BEAM	INV	INVERT	SYM			
BOT BO	BOTTOM BY OWNER	JH	JOIST HANGER	T			
BRK BRG	BREAK BEARING	JST JT	JOIST JOINT	T&B TC			
BTWN BU	BETWEEN BUILT-UP	KIT	KITCHEN	TEL TER			
BUR	BUILT-UP ROOFING	KP	KICK PLATE	T&G TH			
CAB	CABINET	LAB	LABORATORY	THRU			
CB CBC	CATCH BASIN CALIFORNIA BUILDING CODE	LAM LAV	LAMINATE LAVATORY	TJ TN			
CEM	CEMENT CERAMIC	LL LP	LIVE LOAD LOW POINT	T.O.D. T.O.P.			
CER CI	CAST IRON	LT	LIGHT	T.O.R. T.O.W.			
CIR CJ	CIRCLE CONTROL JOINT	MAT	MATERIAL	T.P.			
CORR CL	CORRIDOR CLOSET/ CENTER LINE	MAX MB	MAXIMUM MACHINE BOLT	TRN TRANS			
CLG	CEILING	MC MECH	MEDICINE CABINET MECHANICAL	TS TUB			
CLR CLS	CLEAR CLOSURE	MED MEMB	MEDIUM MEMBRANE	TV			
CMU CO	CONCRETE MASONRY UNIT CLEANOUT	MFR	MANUFACTURER	TW TYP			
COL COMB	COLUMN COMBINATION	MH MIN	MANHOLE MINIMUM	UNF			
COMP	COMPOSITION	MIR MISC	MIRROR MISCELLANEOUS	U.O.N. UR			
CONC CONN	CONCRETE CONNECTION	MO MOD	MASONRY OPENING MODULAR	UTIL			
CONST CONT	CONSTRUCTION CONTINUOUS	MR	MOISTURE RESISTANT	VB			
CONTR CT	CONTRACTOR CERAMIC TILE	MTD MTL	MOUNTED METAL	VCT VERT			
CTR	CENTER	MUL	MULLION	VEST V.I.F.			
CTSK CUST	COUNTERSINK CUSTODIAN	N (N)	NORTH NEW	VTR			
CW	COLD WATER	NAT	NATURAL	VWC			
DBL DEPT	DOUBLE DEPARTMENT	N.I.C. NO	NOT IN CONTRACT NUMBER	W W/			
DET	DETAIL	NOM N.T.S.	NOMINAL NOT TO SCALE	WC WD			
DF DG	DRINKING FOUNTAIN DECOMPOSED	0/	OVER	WDW WH			
DI	GRANITE DRAIN INLET	OA	OVERALL	W/O			
DIA DIAG	DIAMETER DIAGONAL	OBS OC	OBSCURE ON CENTER	WP W.P.			
DIM	DIMENSION	OD OF	OUTSIDE DIAMETER OVERFLOW	WR WSCT			
DISP DIV	DISPOSAL DIVISION	OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED	WT			
DN DO	DOWN DOOR OPENING	O.L.F. OFF	OCCUPANT LOAD FACTOR OFFICE	YD			
DIR DR	DIRECTLY DOOR	OPNG	OPENING				
DSA DS	DIVISION OF STATE ARCHITECT DOWN SPOUT	OPP OVHD	OPPOSITE OVERHEAD				
DSP	DRY STAND PIPE	PC	PORTLAND CEMENT				
DT DW	DRAIN TILE DISHWASHER	P.C.F. PDA	POUNDS PER CUBIC FOOT POWER DRIVEN ANCHOR				
DWG DWR	DRAWING DRAWER	PERF PH	PERFORATED PLATE HEIGHT				
E	EAST	PL	PLATE				
(E)	EXISTING	P/L PLAM	PROPERTY LINE PLASTIC LAMINATE				
EA EB	EACH EXPANSION BOLT	PLAS PLF	PLASTER/ PLASTIC POUNDS PER LINEAL FOOT				
EE EF	EACH END EXHAUST FAN	PLYWD P.O.C.	PLYWOOD POINT OF CONTACT				
EJ EL	EXPANSION JOINT ELEVATION GRADE	PR	PAIR				
ELEC	ELECTRICAL	PROP PSF	PROPERTY POUNDS PER SQUARE FOOT				
ELEV EMER	ELEVATION EMERGENCY	PSI PT	POUNDS PER SQUARE INCH POINT				
EMT ENCL	ELECTRIC METALLIC TUBING ENCLOSURE	PTDF	PRESSURE TREATED DOUGLAS FIR				
EP EQ	ELECTRIC PANEL EQUAL	PTN	PARTITION				
EQUIP	EQUIPMENT	PTR PVC	PAPER TOWEL RECEPTACLE POLYVINYL CHLORIDE				
EQUIV ES	EQUIVALENT EACH SIDE	PVMT	PAVEMENT				
EW EXH	EACH WAY EXHAUST	R R / RAD	RISER RADIUS				
EXIST EXP	EXISTING EXPANSION	RCP	REFLECTED CEILING PLAN				
EXT	EXTERIOR	RD REF	ROOF DRAIN REFERENCE				
F	FACE	REFR REG	REFRIGERATOR REGULAR				
FA FCO	FIRE ALARM FLOOR CLEAN OUT	REQD REINF	REQUIRED REINFORCED				
FD FDN	FLOOR DRAIN FOUNDATION	RH	ROOF HATCH				
FE FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	RHMS RHWS	ROUND HEAD MACHINE SCREW ROUND HEAD WOOD SCREW				
FF	FINISH FLOOR	RM RO	ROOM ROUGH OPENING				
FG	FINISH GRADE	RWL	RAIN WATER LEADER				

REDWOOD

RWD

FIRE HYDRANT

FIRE HOSE STATION

FLAT HEAD MACHINE SCREW

FLAT HEAD WOOD SCREW

FIBERGLAS

FINISH

FIXTURE FLOOR LINE

FLASHING

FLUORESCENT

FACE OF MASONRY

FACE OF FINISH FACE OF STUD

FIRE-RESISTANT

FOOTING **FURRING**

FIBERGLASS REINFORCED

FACE OF CONCRETE

FHWS

FLUOR

FM / FOM

FIXT

LEGEND

SOUTH

SOLID CORE

SCHEDULE

SECTION

SEPARATION

SHEATHING

SHEET METAL

SHUT OFF VALVE

SPECIFICATION

STAINLESS STEEL

SPEAKER

SQUARE

STATION

STEEL

STANDARD

STORAGE

STRUCTURAL

SUSPENDED

SYMMETRICAL

TOP & BOTTOM

TOP OF CURB

TELEPHONE

TERRAZZO

THROUGH

TOE NAIL

TOOL JOINT

TOP OF DECK

TOP OF PLATE

TOP OF ROOF

TOP OF WALL

TRANSPARENT

TUBE STEEL

TUBULAR **TELEVISION**

TACKWALL

UNFINISHED

UNLESS OTHERWISE NOTED

VINYL COMPOSITION TILE

VENT THROUGH ROOF

VINYL WALL COVERING

TYPICAL

UTILITY

VESTIBULE

WEST

WITH

WOOD

WINDOW

WITHOUT

WAINSCOT

WEIGHT

YARD

VERIFY IN FIELD

WATER CLOSET

WATER HEATER

WATER PROOF

WATER RESISTANT

WORK POINT

TRANSOM

TOP OF PAVEMENT

THICK

TONGUE & GROOVE

SIMILAR

SLIDING

STORM DRAIN

SEE CIVIL DRAWINGS

SEE ARCHITECTURAL DRAWINGS

SEE AUDIOVIDEO DRAWINGS

SEE ELECTRICAL DRAWINGS

SEE LANDSCAPE DRAWINGS

SEE MECHANICAL DRAWING

SEE PLUMBING DRAWINGS

SEE STRUCTURAL DRAWINGS

SEE THEATER DRAWINGS

SEE FIRE PROTECTION DRAWINGS

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ALL NOTES AND SYMBOLS ARE INTENDED TO APPLY AT ALL OTHER
LOCATIONS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS
MAY BE LIMITED TO PROMOTE CLARITY. NO LIMITATION OF APPLICATION IS
INTENDED EXCEPT AS SPECFICALLY NOTED.
                     COLUMN GRIDS A AND 1 IN BUILDING A
                     DIMENSION TO FACE OF STUD OR MASONRY
                     DIMENSION TO FACE OF FINISH
                     DIMENSION TO CENTER LINE OR COLUMN LINE
                     RELATIVE ELEVATION DIMENSION
                     DETAIL NUMBER 11 ON SHEET NUMBER A-9.12
                      SECTION NUMBER 3 ON SHEET NUMBER A-B6.2
                     ELEVATION NUMBER 2 ON SHEET NUMBER A-B5.3
                      KEYNOTE NUMBER 33
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PROJECT DESCRIPTION

PROVIDE AND INSTALL NEW SHADE STRUCTURE (PC #04-120012) WITH LIGHTING AND ELECTRICAL OUTLETS PROVIDE ASPHALT CONCRETE SLOPED WALK WITH CONCRETE CURB · MODIFY (E) FENCING AND CONSTRUCT NEW FENCING TO ENCLOSE SHADE STRUCTURE AREA · INSTALL NEW ENTRY CANOPY AT (E) ADMINISTRATION BUILDING · CONSTRUCT SITE FENCING AND ASSOCIATED PEDESTRIAN AND VEHICULAR GATES WHERE SHOWN ON PLAN

DSA DEFFERRED ITEMS

Statement of General Conformance BY ARCHITECT UTILIZING PLANS (INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS) PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS DSA Application No ______01-120767 ____ File No _____21-H1 These drawings (Civil, Structural, Mechanical, Plumbing, Electrical, and Fire Alarm) and/or specifications and/or calculations for the items listed, have been prepared by other design professionals or consultants

It has been examined by me for: 1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and

who are licensed and/or authorized to prepare such drawings in this state.

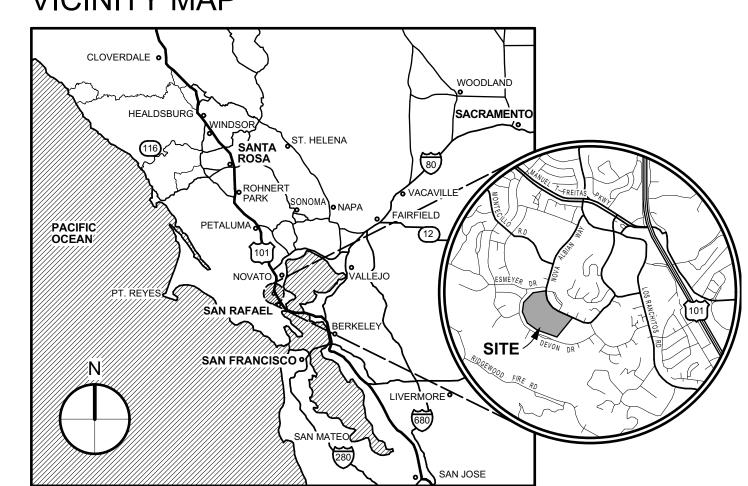
2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341, and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))

Architect or Engineer designated to be in general responsible charge

04.19.2023

VICINITY MAP



GENERAL NOTES

1. ALL WORK IS SHOWN, DESCRIBED OR SPECIFIED IN THE DRAWINGS INDEXED ON THIS PAGE OR IN THE SPECIFICATIONS. ALL WORK NOT INDICATED AS EXISTING (E) IS NEW. 2. ALL FRAMING DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS. •VERIFY ALL DIMENSIONS WHERE WORK INVOLVES FRAMING FOR WINDOWS, DOORS, OR CABINETS 3 ONLY WORK SO NOTED IS NOT IN CONTRACT (N.I.C.) ALL N.I.C. ITEMS ARE NOT PART OF DSA APPROVAL 4. GOVERNING CODES: A COPY OF TITLE 24 PARTS 1-5 AND PART 9 SHALL BE KEPT ON THE JOB ATALL TIMES. CALIFORNIA CODE OF REGULATIONS TITLE 24 BUILDING STANDARDS CODE: PART 1 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR PART 2 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, 2022 CALIFORNIA AMENDMENTS) PART 3 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2020 NATIONAL ELECTRICAL CODE, 2022 CALIFORNIA AMENDMENTS) PART 4 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2021 IAPMO UNIFORM MECHANICAL CODE, 2022 CALIFORNIA AMENDMENTS) PART 5 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2021 IAPMO UNIFORM PLUMBING CODE, 2022 CALIFORNIA AMENDMENTS) PART 6 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR PART 9 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2021 INTERNATIONAL FIRE CODE, 2022 CALIFORNIA AMENDMENTS) PART 10 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2021 INTERNATIONAL EXISTING BUILDING CODE, 2022 CALIFORNIA AMENDMENTS)

PART 11 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL-GREEN), PART 11, TITLE 24 CCR PART 12 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY CODE, STATE FIRE MARSHAL REGULATIONS 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN 2016 ASME A17.1-16/CSA B44-16 SAFETY CODE FOR ELEVATORS AND ESCALATORS NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME 17.1 BY ADOPTION

5. STANDARD AND GUIDES:

INSTALLATION OF FIRE SPRINKLER SYSTEMS (CA AMENDED) 2016 EDITION NFPA 13 INSTALLATION OF STANDPIPE AND HOSE SYSTEMS NFPA 14 2016 EDITION DRY CHEMICAL EXTINGUISHING SYSTEMS 2017 EDITION NFPA 17 NFPA 17A WET CHEMICAL FIRE EXTINGUISHING SYSTEMS 2017 EDITION NFPA 20 INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2016 EDITION STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE NFPA 24 MAINS AND THEIR APPURTENANCES 2016 EDITION NFPA 25 CALIFORNIA EDITION - TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS 2013 EDITION NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 EDITION NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2016 EDITION EMERGENCY AND STANDBY POWER SYSTEMS NFPA 110 2016 EDITION NFPA 170 STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS 2018 EDITION NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2015 EDITION STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS UL 300 FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010) AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 2003 EDITION STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE 1999 EDITION SIGNALING SYSTEMS UL 1971STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2008 EDITION UL 2034STANDARD FOR SINGLE AND MULTIPLE CARBON MONOXIDE ALARMS 2017 EDITION STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2017 EDITION

. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.) IN ACCORDANCE WITH TITLE 24 PART 1 CHAPTER 4: THE ADMINISTRATIVE REGULATIONS FOR THE DIVISION OF THE STATE ARCHITECT STRUCTURAL SAFETY (DSA/SS) •4-331 DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION.

•4-332 WHEN CONSTRUCTION IS SUSPENDED FOR MORE THAN ONE MONTH, THE PROJECT INSPECTOR SHALL INFORM DSA. •4-333(a) OBSERVATION OF THE WORK SHALL BE BY ARCHITECT OR REGISTERED ENGINEER. •4-333(b) A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1,

•4-334 SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH THIS SECTION. •4-335 A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT IN ACCORDANCE WITH THIS SECTION. COSTS OF RE-TEST MAY BE BACKCHARGED TO THE CONTRACTOR. ALL TESTS AND TESTING LAB SHALL CONFORM TO THE REQUIREMENTS OF SECTION 4-335 AND APPROVED T & I SHEET (DSA-103) •4-336 VERIFIED REPORTS SHALL BE SUBMITTED BY CONTRACTORS (DSA 006-C), INSPECTORS (DSA 006-PI), ARCHITECTS AND ENGINEERS (DSA 006-AE) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343. •4-337 SEMI-MONTHLY REPORTS SHALL BE SUBMITTED BY INSPECTORS (DSA - 155), IN ACCORDANCE WITH SECTIONS 4-337. •4-338 WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE APPROVED PLANS, ADDENDA AND CONSTRUCTION DOCUMENTS. CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE

DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. ADDENDA AND CHANGE DOCUMENTS SHALL BE STAMPED AND SIGNED BY THE ARCHITECT OR REGISTERED ENGINEER IN • 4-341(a) THE ARCHITECT AND THE REGISTERED ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341. • .4-343 THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH THIS SECTION.

7. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY EXISTING CONDITIONS BE DISCOVERED WHICH ARE NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24 C.C.R. A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK. (TITLE 24 PART 1, SECTION 4-338(c))

8. COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION SHALL BE ENFORCED.

THE REQUIRED ACCEPTANCE CRITERIA.

COMPLETED.

9. EMERGENCY VEHICLE ACCESS ROADS AND ON-SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTIBLE MATERIALS.

10. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH APPLICABLE LOCAL ORDINANCES.

11. SUBSTITUTIONS OF PRODUCTS OR CONSTRUCTION PROCESSES THAT AFFECT THE STRUCTURAL SAFETY, FIRE AND LIFE-

SAFETY, OR ACCESSIBILITY OF THIS PROJECT SHALL BE SUBMITTED TO DSA FOR REVIEW AND APPROVALAS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.

12. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT). • MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021. • A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE • THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS

• PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN

SHEET INDEX: TOTAL OF 22 SHEETS

GENERAL

G-0.1 COVER SHEET G-0.2 ABBREVIATIONS AND NOTES

ABBREVIATIONS, LEGEND, NOTES & DETAILS DEMOLITION, GRADING, UTILITY, PAVEMENT, LAYOUT & EROSION

ARCHITECTURE

A-1.1 CAMPUS SITE PLAN

A-1.2 ENLARGED SITE PLAN - SHADE STRUCTURE A-1.3 ENLARGED SITE PLAN - SITE FENCE AND CANOPY

A-1.4 ADDITIONAL DETAILS

A-1.5 (E) ENLARGED PLANS AND DETAILS

STRUCTURAL

S-0.1 GENERAL NOTES, RAIN CANOPY DETAILS AND TYPICAL DETAILS

PC SHADE STRUCTURE

LS1.0 GENERAL INFO LS1.1 DSA 103

- LS3.0 30' WIDE RECTANGULAR GABLE FOUNDATION PLAN
- LS3.1 30' WIDE RECTANGULAR GABLE & FRAMING CONNECTION DETAILS
- 30' WIDE RECTANGULAR GABLE MULTI RIB ROOFING PLAN 30' WIDE RECTANGULAR GABLE MEGA RIB ROOFING PLAN
- 30' WIDE RECTANGULAR GABLE STANDING SEAM ROOFING PLAN LS5.0 OPTIONAL ELECTRICAL ACCESS

ELECTRICAL

E-0.1 SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS

E-1.2 SITE PLAN - ELECTRICAL

E-1.2A SITE PLAN - ELECTRICAL & EXISTING LIGHTING E-7.1 SHADE STRUCTURE ELECTRICAL PROVISIONS

QUATTROCCHI KWOK ARCHITECTS 636 Fifth Street, Santa Rosa, CA 95404 East Bay: 55 Harrison Street, Suite 525,

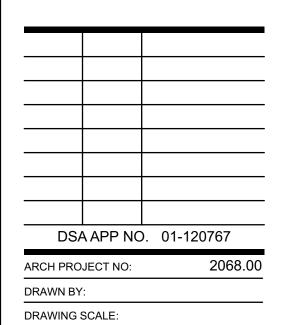
Oakland, CA 94607 (707) 576-0829 AARON JOBSON LICENSE # C30620 EXP OCTOBER 31, 2023 SIGNED: JANUARY 23, 2023

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SHADE **STRUCTURE & ENTRY CANOPY**

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ABBREVIATIONS AND NOTES

PTN: 65466-45

G-0.2

AGGREGATE BASE MILLION GALLONS ACRYLONITRILE-BUTADIENE-STYRENE MIN ASPHALT CONCRETE MISC MISCELLANEOUS ASBESTOS CEMENT PIPE MECHANICAL JOINT ALGEBRAIC DIFFERENCE MONUMENT AMERICANS WITH DISABILITIES ACT MEAN SEA LEVEL MSL **AGGREGATE** NATURAL GROUND ALUM ALUMINUM NUMBER ANGLE NOT APPLICABLE ANGLE POINT NOT IN CONTRACT ASSESSORS PARCEL NUMBER NATIONAL PIPE THREAD ON CENTER APPROX **APPROXIMATE** AIR RELEASE VALVE OUTSIDE DIAMETER ARV **AVENUE** OVERHEAD **AVERAGE** BEGIN HORIZONTAL CURVE PLANTER AREA PULL BOX BACKFLOW PREVENTER POINT OF CURVATURE BLDG BLVD **BUILDING** BOULEVARD POINT OF COMPOUND CURVATURE **BENCHMARK** PORTLAND CEMENT CONCRETE PLANTER DRAIN BACK OF CURB PLAIN END PHOTOELECTRIC CELL BUTTERFLY VALVE BEGIN VERTICAL CURVE PEDESTRIAN BACK OF SIDEWALK PAD GRADE POINT OF INTERSECTION BRELJE & RACE POST INDICATOR VALVE CONDUIT PROPERTY LINE COMBINATION AIR AND PAVING NOTCH VACUUM RELEASE VALVE POINT OF CONNECTION CATCH BASIN POINT ON CURVE CALIFORNIA BUILDING CODE POCC POINT OF COMPOUND CURVE CONTROLLED DENSITY FILL POINT ON VERTICAL CURVE CHECK PRIVATE OPEN SPACE POINT ON TANGENT CAST IRON PIPE CAST-IN-PLACE PIPE POWER POLE POINT OF REVERSE CURVATURE CENTERLINE CENTERLINE PRESSURE REDUCING VALVE PERFORATED SUBDRAIN POUND PER SQUARE INCH CORRUGATED METAL PIPE PRESSURE SUSTAINING VALVE CORRUGATED METAL PIPE ARCH CONCRETE MASONRY UNIT POINT OF TANGENCY PUBLIC UTILITY EASEMENT CLEANOU^{*} POLYVINYL CHLORIDE COAXIAL CABLE CONC CONCRETE POINT OF VERTICAL INTERSECTION CONDUIT PAVFMFNT CONST CONSTRUCTION PUBLIC WATER EASEMENT CONTINUOUS COTG CLEANOUT TO GRADE RAW WATER RELATIVE COMPACTION CONTROL POINT COUPLING CPLG REINFORCED CONCRETE BOX CURB RETURN REINFORCED CONCRETE PIPE CORRUGATED STEEL PIPE CEMENT TREATED BASE REDUCER RFFFRFNCF CFNTFR CUBIC YARD RIGHT OF WAY CENTER TO CENTER REDUCED PRESSURE BACKFLOW PREVENTER CURB AND GUTTER RAISED PAVEMENT MARKER DOUBLE CHECK DETECTOR CHECK REMOTE SUPERVISORY CONTROL DETECTOR CHECK VALVE RIGHT RING TIGHT DOUBLE DETECTOR CHECK RECYCLED WATER DETECTOR RAIN WATER LEADER DETECTOR HANDHOLE RIGHT OF WAY DUCTILE IRON PIPE DETECTOR LOOP CONDUIT SEE ARCHITECTURAL DRAWINGS SUPERVISORY CONTROL AND SCADA DATA ACQUISITION DOWNSTREAM SCHEDULE STORM DRAIN STORM DRAIN CATCH BASIN DASHED WHITE PAVEMENT MARKER SDCB DRIVEWAY SDCO STORM DRAIN CLEANOUT DOUBLE YELLOW STORM DRAIN EASEMENT DASHED YELLOW RAISED PAVEMENT MARKER STORM DRAIN MANHOLE SEWER FASEMENT SEE ELECTRICAL DRAWINGS END HORIZONTAL CURVE SQUARE FEET SUBGRADE **ECCENTRIC** SIGNAL STREET LIGHT EFFLUENT (SEWER) EXISTING GROUND SEE LANDSCAPE DRAWINGS ELEVATION SLIP ON FLANGE ELECTRICAL SIDE OPENING (SD) EDGE OF PAVEMENT SEE PLUMBING DRÁWINGS SPECIFICATION EASEMENT END VERTICAL CURVE STAINLESS STEEL EACH WAY SANITARY SEWER EXISTING SANITARY SEWER CLEANOUT SEE STRUCTURAL DRAWINGS FIRE ALARM SANITARY SEWER MANHOLE FACE OF CURB FLANGED COUPLING ADAPTER STATION

FIRE DEPARTMENT CONNECTION

FLOWLINE OF SIDE OPENING

FIBERGLASS REINFORCED PLASTIC

FORCE MAIN (PRESSURE)

GALVANIZED STEEL PIPE

HOT DIPPED GALVANIZED

HIGH PRESSURE GAS

INSIDE DIAMETER

OF ACCESSIBILITY

JUNCTION BOX

JOINT TRENCH

ARC LENGTH

LINEAL FEET

LANE LINE

LOW POINT

LUMINAIRE

MAXIMUM

MANUFACTURE

MAILBOX

LANE

LIP OF GARAGE LIP OF GUTTER

LUMINAIRE MAST A

METAL BEAM GUARD RAIL

KILOVOLT

LENGTH

HIGH PRESSURE SODIUM

IRRIGATION CONTROL VALVE

INTERNATIONAL SYMBOL

HIGH DENSITY POLYETHYLENE

FLARED END SECTION

FINISHED FLOOR

FINISHED GRADE FIRE HYDRANT

FLOWLINE

FLOWLINE

GALLON

GALVANIZED

GAS VALVE

HORIZ

GATE VALVE

HORIZONTAL

HFIGHT

INVFRT

IRON PIPE

IRRIGATION

HIGHWAY INTERCONNECT

HEADER BOARD

GRADE BREAK

STD

STANDARD

SIDEWALK EASEMENT

SQUARE YARDS SIDEWALK

SOLID WHITE LINE

TEMPORARY BENCHMARK

TEMPORARY CONSTRUCTION

TOP OF CONCRETE

TOP OF FOUNDATION

TWO WAY LEFT TURN LANE

UNLESS NOTED OTHERWISE

UNDER FLOOR FINISHED GRADE

STEEL

SERVICE

TANGENT

FASEMENT

TOP OF DIKE

TELEPHONE

TEMPORARY

THREADED

TOP OF PIPE

TOP OF WALL

UTILITY CHASE

UNDERGROUND

VERTICAL CURVE

VALLEY GUTTER

WALL BACK DRAIN

WELD NECK FLANGE

WELDED WIRE FABRIC

WATER SAMPLING STATION

WATER METER

WATER SERVICE

WATER VALVE

VITRIFIED CLAY PIPE

TYPICAL

VERTICAL

VAULT WEST

WEIGHT

DEGREES

MINUTES

SECONDS

NUMBER

POUNDS

PERCENT

DELTA

UC UFFG

VERT

VLT

TOP OF SLAB TRAFFIC SIGNAL TOP OF TAPER

TOP OF GRATE

TOP OF BOX

LEGEND

LINES	
BOUNDARY	
PARCEL	
CENTER	
EASEMENT	

UTILITY LINES	EXISTING	PROPOSED
STORM DRAIN	24" SD	24"SD
WATER		8"W
SEWER	12"SSSS	12"SS
GAS		
ELECTRICAL	Е ——	<u> 12KV</u> E —
TELEPHONE	T	
TELEVISION	TV	
JOINT TRENCH	JT	

TOPOGRAPHY

TREE PROTECTION.

SHADE STRUCTURE

COLUMN-

INSULATE ALL

EXPOSED PIPING.

TREE TO BE SAVED

TREE TO BE REMOVED

DROP INLET		
DROP INLET WITH SIDE OPENINGS		◄ □►
WATER METER	F - JWM	
WATER VALVE		
BLOWOFF		
FIRE HYDRANT	—₹X	∓ ×
THRUST BLOCK		─
GAS METER	☐ GM	
STORM DRAIN MANHOLE		
STORM DRAIN CATCH BASIN		
SEWER MANHOLE	-9-	
SEWER CLEANOUT	- SS•	
JOINT POLE	TEN JP	
LIGHT STANDARD	~	•—
GUY/ANCHOR		
CURB & GUTTER		
AC DIKE		
FENCE	XX	xx
CHAIN LINK FENCE		
DITCH/SWALE	_ ··· -> ··· ->	_ ··· ···
MONUMENT	•	•

GENERAL NOTES

- . ANY DISCREPANCY DISCOVERED BY CONTRACTOR IN THESE PLANS OR ANY FIELD CONDITIONS DISCOVERED BY CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK PER THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT
- 2. ALL MATERIAL WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS DATED JULY 2006 EXCEPT AS NOTED ON PLANS AND THE STANDARD SPECIFICATIONS OF CITY OF SAN RAFAEL.

IMMEDIATELY UPON DISCOVERY. SAID NOTIFICATION SHALL BE IN WRITING.

- CONTRACTOR SHALL OBTAIN ALL AGENCIES' REQUIRED PERMITS AND PAY ALL FEES PRIOR TO COMMENCEMENT OF ANY WORK, EXCEPT THOSE REQUIRED BY DSA.
- 4. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, GENERAL CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, THE ARCHITECT AND HIS CONSULTANTS, AND THE DISTRICT, AND EACH OF THEIR OFFICERS, EMPLOYEES AND AGENTS.
- 5. ANY EXCESS MATERIALS SHALL BE CONSIDERED THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AWAY FROM THE JOB SITE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- 6. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING NOISE, ODORS, DUST AND DEBRIS TO MINIMIZE IMPACTS ON SURROUNDING ROADWAYS AND
- 7. CONTRACTOR SHALL BE RESPONSIBLE THAT ALL CONSTRUCTION EQUIPMENT IS EQUIPPED WITH MANUFACTURER APPROVED MUFFLERS/BAFFLES.

GENERAL UNDERGROUND NOTES

- 1. NO GUARANTEE IS INTENDED THAT UNDERGROUND OBSTRUCTIONS, NOT SHOWN ON THESE PLANS, MAY BE ENCOUNTERED. THOSE SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE AND THE CONTRACTOR IS CAUTIONED THAT THE OWNER. THE ENGINEERS AND THE ARCHITECT ASSUME NO RESPONSIBILITY FOR ANY OBSTRUCTIONS EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES WORKING WITHIN THE LIMITS OF THIS PROJECT.
- CONTRACTOR SHALL NOT BEGIN EXCAVATION UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD BY THE APPLICABLE ENTITY RESPONSIBLE FOR THAT PARTICULAR UTILITY. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 48 HOURS BEFORE STARTING
- 3. UNDERGROUND SERVICE ALERT: CALL TOLL FREE (800) 642-2444 AT LEAST 48 HOURS PRIOR
- 4. CONTRACTOR SHALL UNCOVER EXISTING BURIED UTILITIES AT PROPOSED POINTS OF CONNECTION AND NOTIFY ENGINEER OF FINDINGS VIA THE RFI PROCESS PRIOR TO THE CONSTRUCTION OF ANY UTILITIES. BURIED UTILITIES INCLUDE BUT ARE NOT LIMITED TO WATER MAINS AND LATERALS, SEWER LINES, STORM DRAINS, GAS MAINS AND LATERALS, ELECTRICAL DISTRIBUTION LINES AND TELEPHONE LINES. ALL UTILITIES CONFLICTING WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED, ABANDONED IN PLACE BY FILLING WITH CONCRETE SLURRY OR BE RELOCATED PRIOR TO THE START OF CONSTRUCTION.
- 5. THE CONTRACTOR SHALL VERIFY EXISTING INVERTS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE PROJECT AND/OR DESIGN ENGINEER MAY ADJUST THE GRADE OF NEW STORM DRAIN OR SEWER CONSTRUCTION ACCORDINGLY WITH CONCURRENCE FROM THE
- 6. DISTANCES AND INVERTS ARE TO AND AT THE CENTER OF THE MANHOLES, CLEANOUTS, DROP INLETS, CATCH BASINS, AND YARD DRAINS OR AS MARKED ON THE DRAWINGS.
- 7. ALL UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.

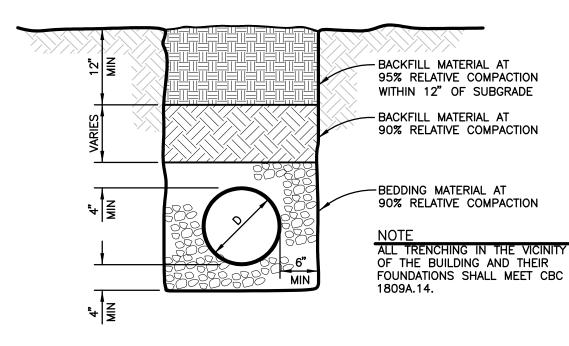
GRADING NOTES

ENGINEER.

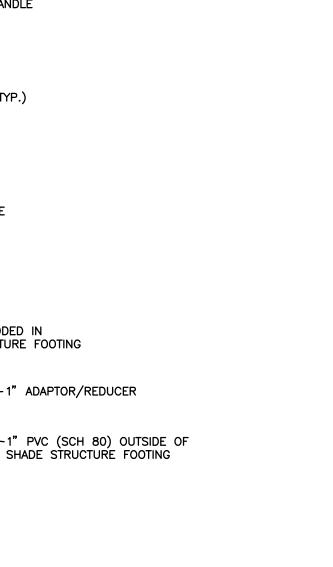
- 1. ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION AND GEOLOGIC HAZARDS STUDY REPORT RECOMMENDATIONS - KILN ADDITION PREPARED FOR THIS PROJECT BY, A3GEO, INC. DATED DECEMBER 22, 2021.
- 2. SEE SPECIFICATION SECTIONS 31 1000 AND 31 2000 FOR SPECIFIC REQUIREMENTS.

FEMA INFORMATION

THE APPLICABLE FIRMS FOR THIS SITE ARE PANEL NOS. 06041C0293E AND 06041C0456F, DATED MARCH 16, 2016. THIS SITE IS LOCATED IN ZONE X (NO HATCH), WHICH REPRESENTS AREA OUTSIDE THE 1% ANNUAL CHANGE FLOOD HAZARD AREA.



STANDARD TRENCH NOT TO SCALE



~REMOVABLE HANDLE

-PIPE STRAP (TYP.)

GIP RISER

____1" GATE VALVE

FREE STANDING

HOSE BIBB

NOT TO SCALE

I" GIP EMBEDDED IN

SHADE STRUCTURE FOOTING

--- HOSE BIBB

____ 8'-10' (TYP) _____ 2" CHAIN LINK FENCE FABRIC — CONCRETE FOOTINGS ON GRADE INSTALL PORTABLE CHAIN LINK FENCE PANELS AS TEMPORARY TEMPORARY TREE PROTECTION FENCE NOT TO SCALE

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

- EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO OCTOBER 15TH AND ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL PERMANENT VEGETATION IS ESTABLISHED AND HAS ACHIEVED AT LEAST 70% COVERAGE. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FORM THE FINAL PROPOSED DRAINAGE PATTERN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING CONSTRUCTION SHALL BE REPORTED TO THE OWNER/ENGINEER IMMEDIATELY.
- PERFORM EROSION PREVENTION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF APPENDIX CHAPTER J OF THE CALIFORNIA BUILDING CODE, APPLICABLE MARIN COUNTY REGULATIONS, AND SECTION 21 OF THE CALTRANS STANDARD SPECIFICATIONS.
- THE APPROVED PLANS SHALL CONFORM WITH THE EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES CONTAINED IN THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS OR AN EQUIVALENT BEST MANAGEMENT PRACTICE:
- EROSION AND SEDIMENT CONTROL FIELD MANUAL BY THE SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD.

 MANUAL OF STANDARDS FOR EROSION & SEDIMENT CONTROL MEASURES BY THE ASSOCIATION OF BAY AREA GOVERNMENTS.

 CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL BY CALTRANS.

 STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION.
- 4. IF DISCREPANCIES OCCUR BETWEEN THESE NOTES, MATERIAL REFERENCED HEREIN OR MANUFACTURER'S RECOMMENDATIONS, THEN THE MOST PROTECTIVE SHALL APPLY.
- 5. SOME ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY THE PROJECT ENGINEER AND/OR INSPECTOR OF RECORD.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WHEN THEY ARE NO LONGER FUNCTIONING PER BEST MANAGEMENT PRACTICES. 7. THE OWNER IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. CASOOOOO2 WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY DISTURBING LAND EQUAL TO OR GREATER THAN ONE ACRE. CONSTRUCTION ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO CLEARING, GRADING, EXCAVATION, STOCKPILING, AND RECONSTRUCTION OF EXISTING FACILITIES INVOLVING REMOVAL AND REPLACEMENT.
- 8. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR THIS PROJECT. NO CONSTRUCTION ACTIVITY, INCLUDING ANY GRADING, SHALL BEGIN UNTIL COVERAGE UNDER THE REGIONAL WATER QUALITY CONTROL BOARD GENERAL PERMIT HAS BEEN OBTAINED BY FILING THE NOI AND APPROPRIATE FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL ASPECTS OF THE SWPPP INCLUDING PROVIDING A QUALIFIED SWPPP PRACTITIONER (QSP) TO MONITOR AND REPORT TO THE WATER QUALITY CONTROL BOARD AS REQUIRED UNDER THE GENERAL PERMIT. A COPY OF THE SWPPP AND NOI SHALL BE KEEP ON THE SITE AT ALL TIMES. THE CONTRACTOR'S QSP SHALL UPDATE THE WATER POLLUTION CONTROL DRAWINGS (WPCDS) BASED ON WINTER CONDITIONS. THE WPCDS SHALL BE KEPT UP TO DATE BY THE CONTRACTOR'S QSP THROUGHOUT ALL PHASES OF CONSTRUCTION.
- 9. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED.
- 10. PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM EXTENT PRACTICABLE.
- THE OWNER IS RESPONSIBLE FOR PREVENTING STORM WATER POLLUTION GENERATED FROM THE CONSTRUCTION SITE YEAR ROUND. THE OWNER MUST IMPLEMENT AN EFFECTIVE COMBINATION OF EROSION PREVENTION AND SEDIMENT CONTROL ON ALL DISTURBED AREAS DURING THE RAINY SEASON (OCTOBER 15 - APRIL 15).
- THE CONTRACTOR SHALL HAVE EROSION AND SEDIMENT CONTROL MEASURES ON SITE ADEQUATE TO PROTECT THE ENTIRE SITE PRIOR TO THE OCTOBER 15TH DATE SUCH THAT IT IS IMMEDIATELY AVAILABLE IN PREPARATION OF THE UPCOMING WINTER SEASON OR IN THE EVENT OF AN EARLY RAIN.
- EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER BEFORE FORECASTED STORM EVENTS AND AFTER ACTUAL STORM EVENTS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. STORM EVENTS PRODUCE AT LEAST 1 INCH OF PRECIPITATION IN A 24 HOUR PERIOD. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT HAVE FAILED OR ARE NO LONGER EFFECTIVE SHALL BE PROMPTLY REPLACED. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
- 14. CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN MAY BE MADE TO RESPOND TO FIELD CONDITIONS. CHANGES SHALL BE NOTED ON THE PLAN WHEN MADE.
- 15. DISCHARGES OF POTENTIAL POLLUTANTS FROM CONSTRUCTION SITES SHALL BE PREVENTED USING SOURCE CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT, TRASH, NUTRIENTS, PATHOGENS, PETROLEUM HYDROCARBONS, METALS, CONCRETE, CEMENT, ASPHALT, LIME, PAINT, STAINS, GLUES, WOOD PRODUCTS, PESTICIDES, HERBICIDES, CHEMICALS, HAZARDOUS WASTE, SANITARY WASTE, VEHICLE OR EQUIPMENT WASH WATER
- 16. PRIOR TO COMMENCING LAND DISTURBING ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARKED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- PRIOR TO ANY OTHER CONSTRUCTION A STABILIZED CONSTRUCTION ENTRANCE(S) SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXITING FROM THE SITE. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT OF WAY, THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT, ALL MATERIAL SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR STORM DRAIN MUST BE REMOVED
- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- 19. THE CONTRACTOR IS TO MAINTAIN AN ON-SITE DAILY LOG OF ALL MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES. THE LOG SHALL BE MADE AVAILABLE FOR INSPECTION AT ALL TIMES. 20. SILT FENCES SHALL BE LOCATED ON SITE PER THE APPROVED EROSION CONTROL PLAN TO PREVENT SEDIMENT AND EROSION FROM LEAVING THE PROPERTY LIMITS.
- 21. EROSION CONTROL MEASURES TO BE PLACED AT DOWNSLOPE TOE OF ALL CUT AND FILL SLOPES.
- 22. EXPOSED SLOPES SHALL BE PROTECTED BY USING EROSION PREVENTION MEASURES TO THE MAXIMUM EXTENT PRACTICABLE, SUCH AS ESTABLISHING 70% VEGETATION COVERAGE, HYDROSEEDING, STRAW MULCH, GEOTEXTILES, PLASTIC COVERS, BLANKETS OR MATS.
- WHENEVER IT IS NOT POSSIBLE TO UTILIZE EROSION PREVENTION MEASURES, EXPOSED SLOPES SHALL EMPLOY SEDIMENT CONTROL DEVICES, SUCH AS FIBER ROLLS AND SILT FENCES. FIBER ROLLS AND SILT FENCES SHALL BE TRENCHED AND KEYED INTO THE SOIL AND INSTALLED ON CONTOUR. SILT FENCES SHALL BE INSTALLED APPROXIMATELY 2 TO 5 FEET FROM TOE OF SLOPE.
- AS A MINIMUM, ALL GRADED AREAS AND EXPOSED SOIL WITHIN THIS PROJECT SHALL BE SEEDED FOR EROSION CONTROL BY THE CONTRACTOR. SEED AND MULCH WILL BE APPLIED BY OCTOBER 1ST TO ALL EXPOSED SOIL WITHIN OR ADJACENT TO THE PROJECT. HYDROSEEDING SHALL BE CONDUCTED IN A THREE STEP PROCESS. FIRST, EVENLY APPLY SEED MIX AND FERTILIZER TO THE EXPOSED SOIL. SECOND, EVENLY APPLY MULCH OVER THE SEED AND FERTILIZER. THIRD, STABILIZE THE APPLICATIONS SHALL BE BROADCASTED MECHANICALLY OR MANUALLY AT THE RATES SPECIFIED BELOW. SEED MIX AND FERTILIZER SHALL BE WORKED INTO THE SOIL BY ROLLING OR TAMPING. IF STRAW IS USED AS MULCH, STRAW SHALL BE DERIVED FROM WHEAT, RICE OR BARLEY AND BE APPROXIMATELY 6 TO 8 INCHES IN LENGTH. STABILIZATION OF MULCH SHALL BE DONE HYDRAULICALLY BY APPLYING AN EMULSION OR MECHANICALLY BY CRIMPING OR PUNCHING THE MULCH INTO THE SOIL. EQUIVALENT METHODS AND MATERIALS MAY BE USED ONLY IF THEY ADEQUATELY PROMOTE VEGETATION GROWTH AND PROTECT EXPOSED SLOPES.

APPLICATION RATE <u>MATERIALS</u> (POUNDS PER ACRE) BROMUS MOLLIS (BLANDO BROME) TRIFOLIUM HIRTUM (HYKON ROSE CLOVER) FERTILIZER 16-20-0 & 15% SULPHUR MULCH HYDRAULIC STABILIZING* M-BINDER OR SENTINEL

EQUIVALENT MATERIAL

*NON-ASPHALTIC, DERIVED FROM PLANTS

THE OWNER SHALL PROTECT STORM DRAIN INLETS FROM POTENTIAL POLLUTANTS UNTIL DRAINAGE CONVEYANCE SYSTEMS ARE FUNCTIONAL AND CONSTRUCTION HAS BEEN COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING OUT ALL STORM DRAIN STRUCTURES AND PIPE PRIOR TO FINAL COMPLETION.

PER MANUFACTURER

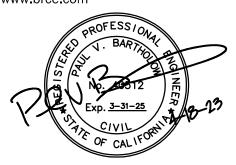
- 26. ENERGY DISSIPATERS SHALL BE INSTALLED AT STORM DRAIN OUTLETS WHICH MAY CONVEY STORM WATER FLOW LEADING TO SOIL EROSION.
- 27. SOIL AND MATERIAL STOCKPILES SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUTANT TRANSPORT FROM THE CONSTRUCTION SITE.
- 28. CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND FOR CLEARING ANY DEBRIS AND SEDIMENT CAUSED BY THE CONSTRUCTION.
- 29. DURING THE RAINY SEASON (OCTOBER 15TH THROUGH APRIL 15TH) ALL SEDIMENT BARRIERS ARE TO BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY AND IN ADDITION AFTER EACH STORM. THE CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROL MEASURES AND INLETS AFTER EACH SIGNIFICANT RAINFALL AND DAILY DURING PROLONGED STORM EVENTS. REMOVE SEDIMENTS WHEN ACCUMULATIONS REACH ONE THIRD THE HEIGHT OF THE BARRIER AND REPLACE FILTER DEVICES AS NECESSARY TO ENSURE PROPER FUNCTION.
- 30. SOLID WASTE, SUCH AS TRASH, DISCARDED BUILDING MATERIALS AND DEBRIS, SHALL BE PLACED IN DESIGNATED COLLECTION AREAS OR CONTAINERS. THE CONSTRUCTION SITE SHALL BE CLEARED OF SOLID WASTE DAILY, OR AS NECESSARY, AND REGULAR REMOVAL AND PROPER DISPOSAL SHALL BE ARRANGED.
- 31. A CONCRETE WASHOUT AREA, SUCH AS A TEMPORARY PIT, SHALL BE DESIGNATED TO CLEAN CONCRETE TRUCKS AND TOOLS.

 AT NO TIME SHALL CONCRETE PRODUCTS AND WASTE BE ALLOWED TO ENTER WATERWAYS SUCH AS CREEKS OR STORM
- 32. PROPER APPLICATION, CLEANING AND STORAGE OF POTENTIALLY HAZARDOUS MATERIALS, SUCH AS PAINTS AND CHEMICALS, SHALL BE CONDUCTED TO PREVENT THE DISCHARGE OF POLLUTANTS.
- 33. WHEN UTILIZED, TEMPORARY RESTROOMS AND SANITARY FACILITIES SHALL BE LOCATED AND MAINTAINED TO PREVENT THE DISCHARGE OF POLLUTANTS.
- 34. APPROPRIATE VEHICLE STORAGE, FUELING, MAINTENANCE AND CLEANING AREAS SHALL BE DESIGNATED AND MAINTAINED TO PREVENT DISCHARGE OF POLLUTANTS.
- 35. THESE EROSION PREVENTION AND SEDIMENT CONTROL NOTES ASSIGN RESPONSIBILITY TO THE OWNER FOR VARIOUS ACTIVITIES ASSOCIATED WITH NPDES PERMITTING, IMPLEMENTATION & MONITORING. ALTHOUGH THE OWNER IS ESTABLISHED AS THE RESPONSIBLE PARTY BY THE VARIOUS AGENCIES CHARGED WITH ADMINISTERING NPDES REGULATIONS, THE CONTRACTOR SHALL ESTABLISH A CONTRACT PRICE FOR PERFORMING ALL NPDES PERMITTING, IMPLEMENTATION & MONITORING ACTIVITIES AND SHALL BE HELD RESPONSIBLE BY THE OWNER FOR THE PERFORMANCE OF SUCH ACTIVITIES FOR THE DURATION OF THE CONSTRUCTION CONTRACT.



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TERRA LINDA HIGH SCHOOL

SHADE STRUCTURE & **ENTRY CANOPY**

320 Nova Albion Way San Rafael, CA 94903

SAN RAFAEL CITY

SCHOOLS

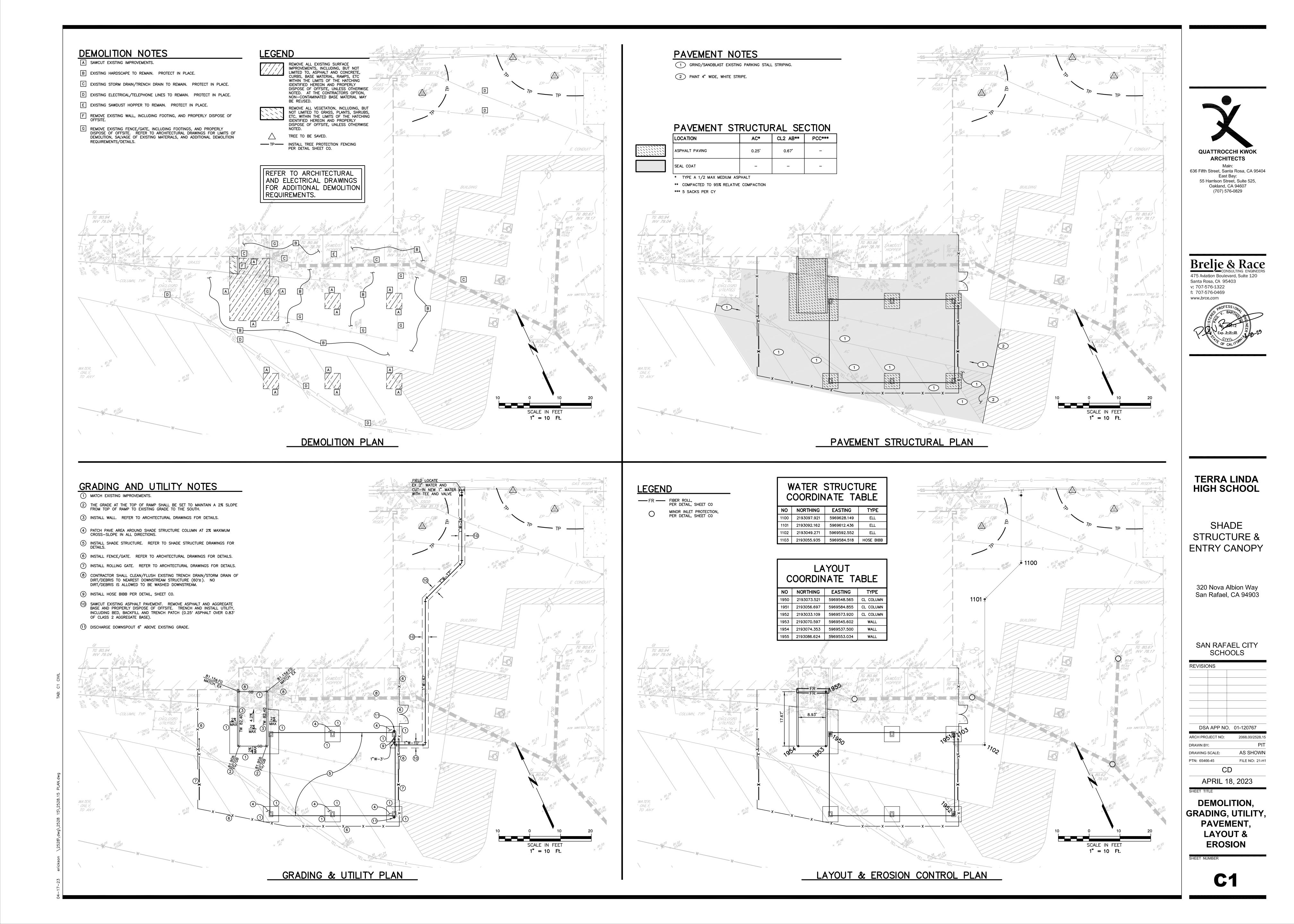
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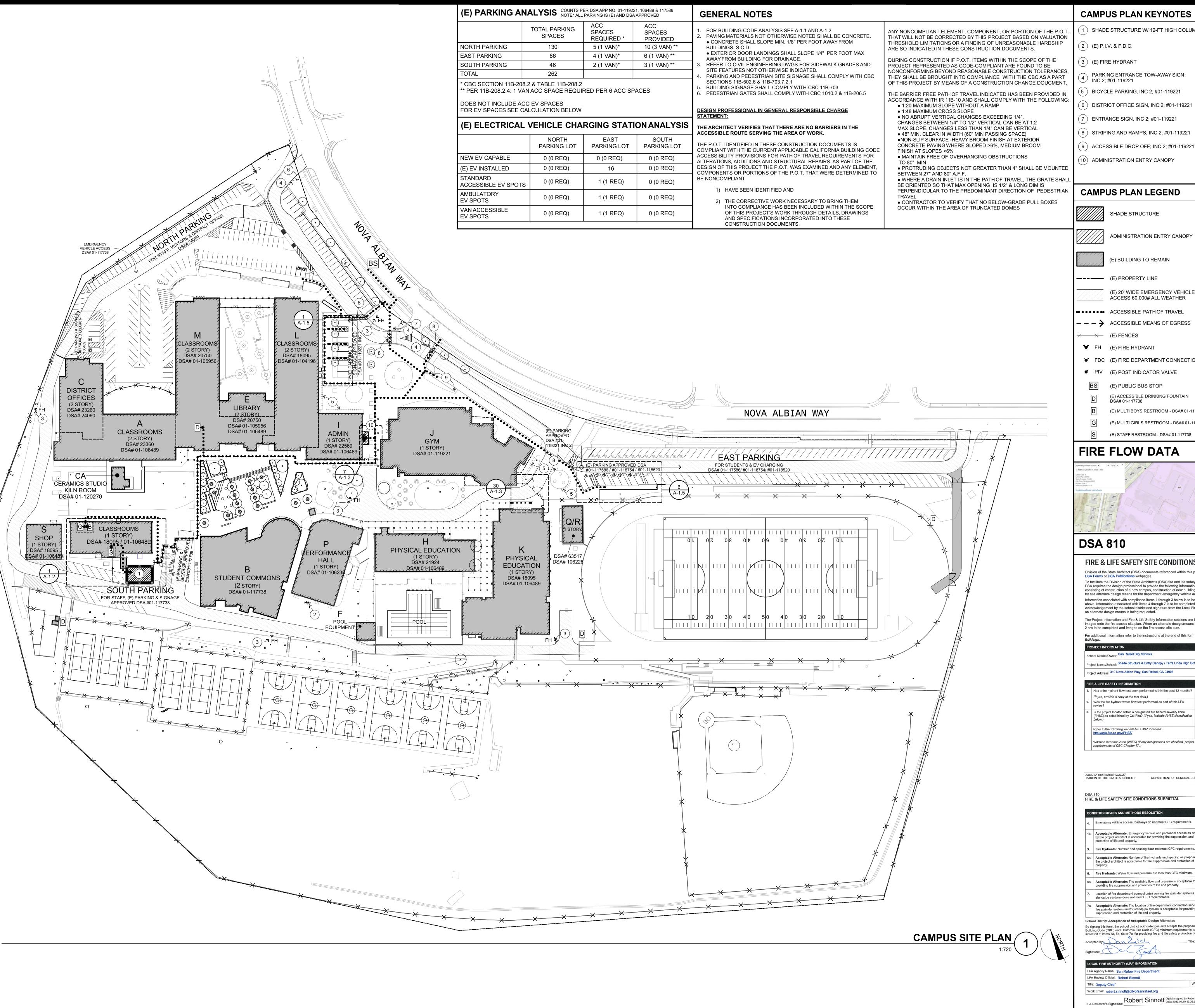
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APRIL 18, 2023

ABBREVIATIONS, LEGEND, NOTES & **DETAILS**





CAMPUS PLAN KEYNOTES

) SHADE STRUCTURE W/ 12-FT HIGH COLUMNS, SEE PC DRAWINGS

(2) (E) P.I.V. & F.D.C.

PARKING ENTRANCE TOW-AWAY SIGN;

) BICYCLE PARKING, INC 2; #01-119221

(8) STRIPING AND RAMPS; INC 2; #01-119221

(9) ACCESSIBLE DROP OFF; INC 2; #01-119221

(10) ADMINISTRATION ENTRY CANOPY

CAMPUS PLAN LEGEND

SHADE STRUCTURE

ADMINISTRATION ENTRY CANOPY

(E) BUILDING TO REMAIN

(E) 20' WIDE EMERGENCY VEHICLE ACCESS 60,000# ALL WEATHER

- - → ACCESSIBLE MEANS OF EGRESS

★ FH (E) FIRE HYDRANT

FDC (E) FIRE DEPARTMENT CONNECTION

(E) PUBLIC BUS STOP (E) ACCESSIBLE DRINKING FOUNTAIN DŚA# 01-117738

(E) MULTI BOYS RESTROOM - DSA# 01-117738

(E) MULTI GIRLS RESTROOM - DSA# 01-117738

FIRE FLOW DATA



DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages. To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for

Sch	ool District/Owner: San Rafael City Schools						
Proj	ect Name/School: Shade Structure & Entry Canopy / Terra Linda High Sch	nool					
Proj	ect Address: 310 Nova Albion Way, San Rafael, CA 94903						
FIR	E & LIFE SAFETY INFORMATION						
1.	Has a fire hydrant flow test been performed within the past 12 months?	Yes 🗹		No □			
	(If yes, provide a copy of the test data.)						
2.	Was the fire hydrant water flow test performed as part of this LFA review? Yes □						
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes □		No 🗹			
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate □	High □	Very Hi			
	Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the						

Page 1 of 4
DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

CON	IDITION MEANS AND METHODS RESOLUTION	ALTER	NATE	ACCEPTE	ΕD
4.	Emergency vehicle access roadways do not meet CFC requirements.	Yes	No	N/A	N/I
4a.	Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	Fire Hydrants: Number and spacing does not meet CFC requirements.			~	
5a.	Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	Fire Hydrants: Water flow and pressure are less than CFC minimum.			~	
6a.	Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			~	
7a.	Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions

LFA Agency Name: San Rafael Fire Department Work Phone: (415) 485-5067 Title: Deputy Chief Work Email: robert.sinnott@cityofsanrafael.org Robert Sinnott Digitally signed by Robert Sinnott Date: 2023.01.10 13:38:39 -08'00' Date:

DGS DSA 810 (revised 12/29/20) Page 2 of 4
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

QUATTROCCHI KWOK

ARCHITECTS

636 Fifth Street, Santa Rosa, CA 95404

East Bay:

55 Harrison Street, Suite 525,

Oakland, CA 94607

(707) 576-0829

AARON JØBSON

LICENSE # C30620

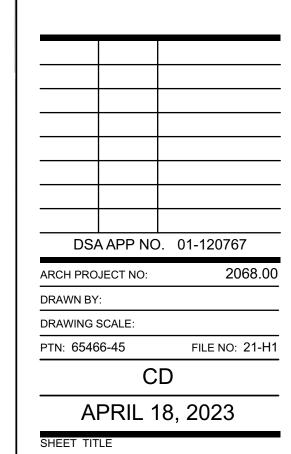
SIGNED: JANUARY 23, 2023

TERRA LINDA HIGH SCHOOL

SHADE STRUCTURE & ENTRY CANOPY

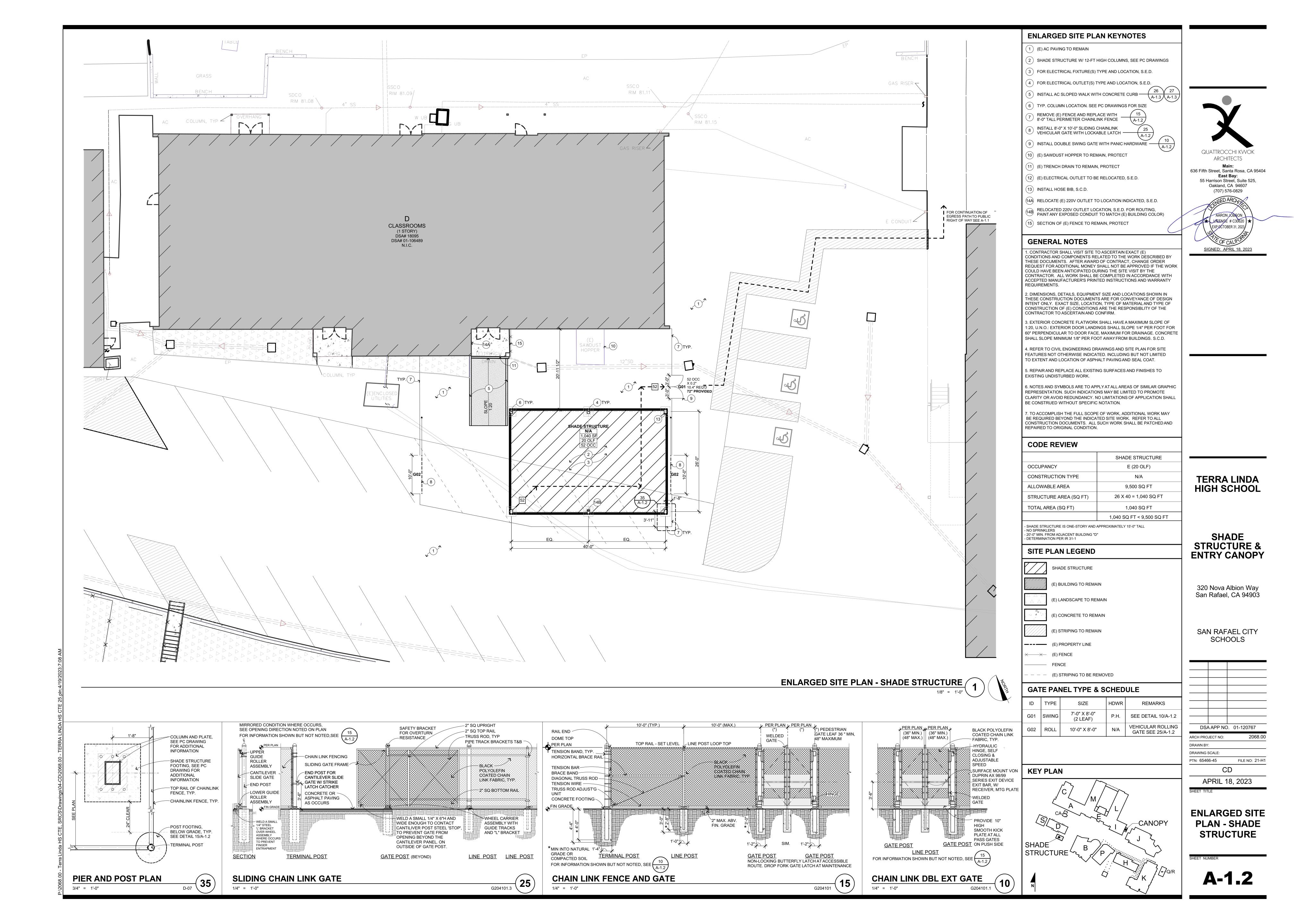
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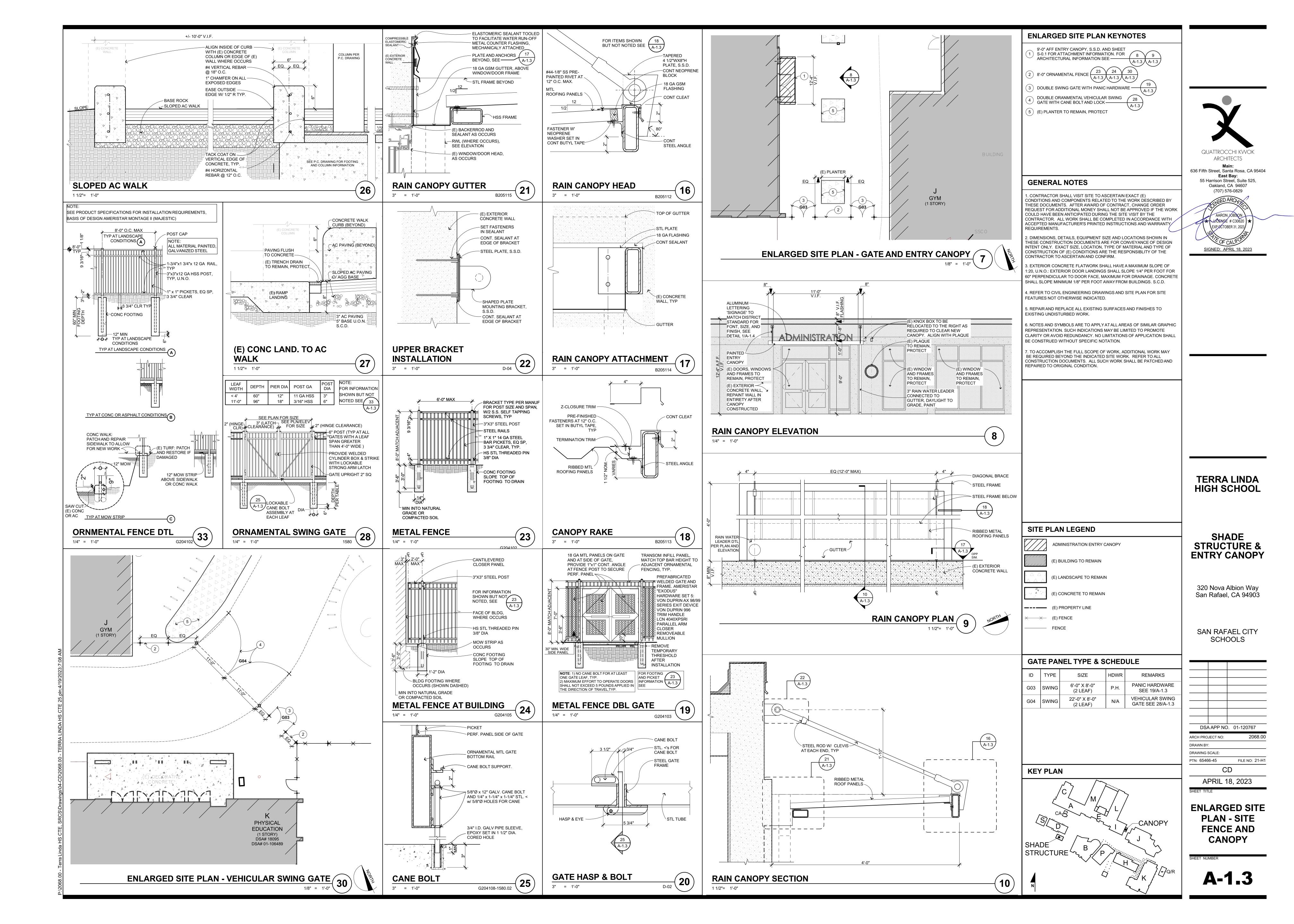
SAN RAFAEL CITY SCHOOLS

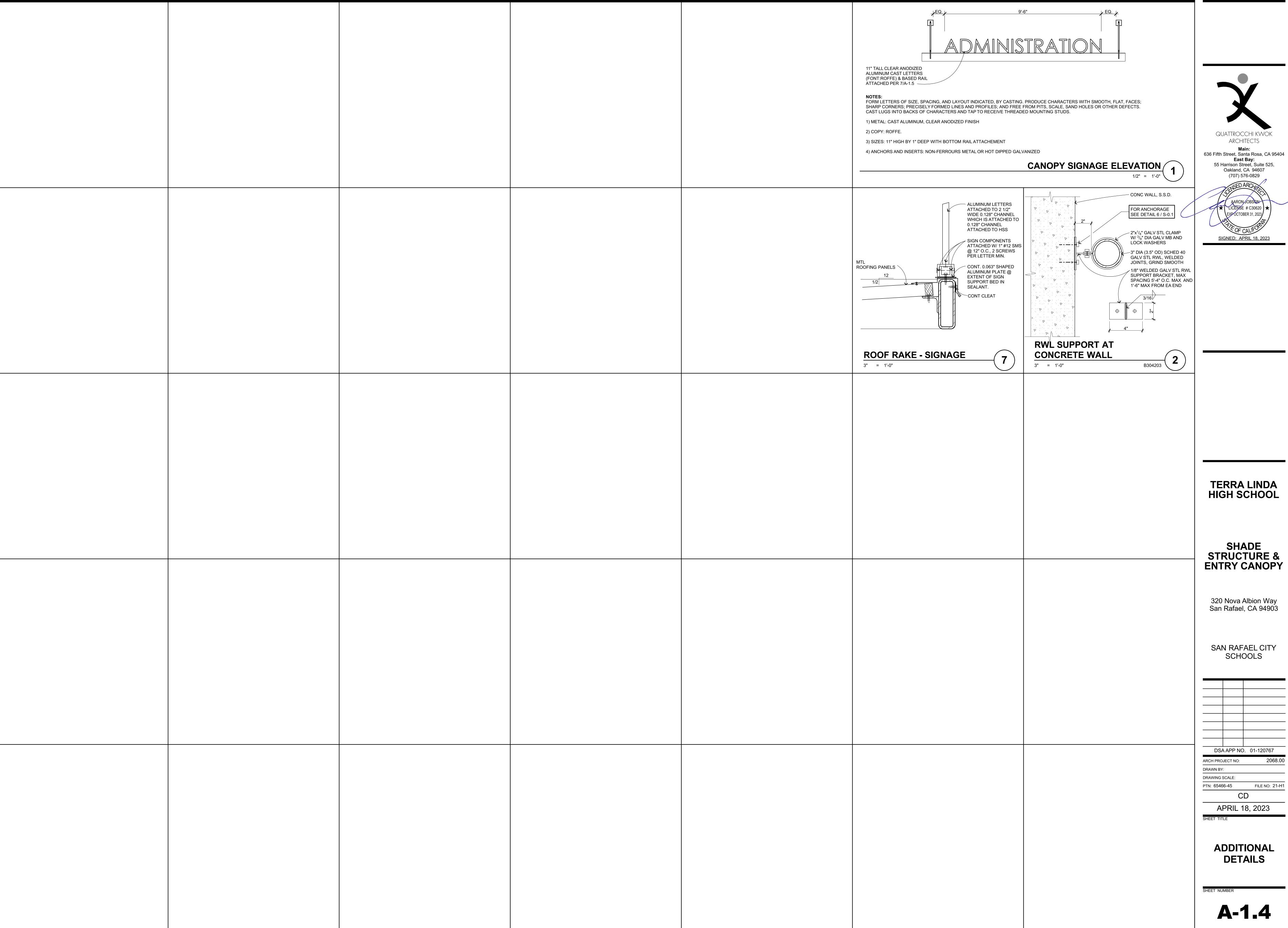


CAMPUS SITE PLAN

A-1.1

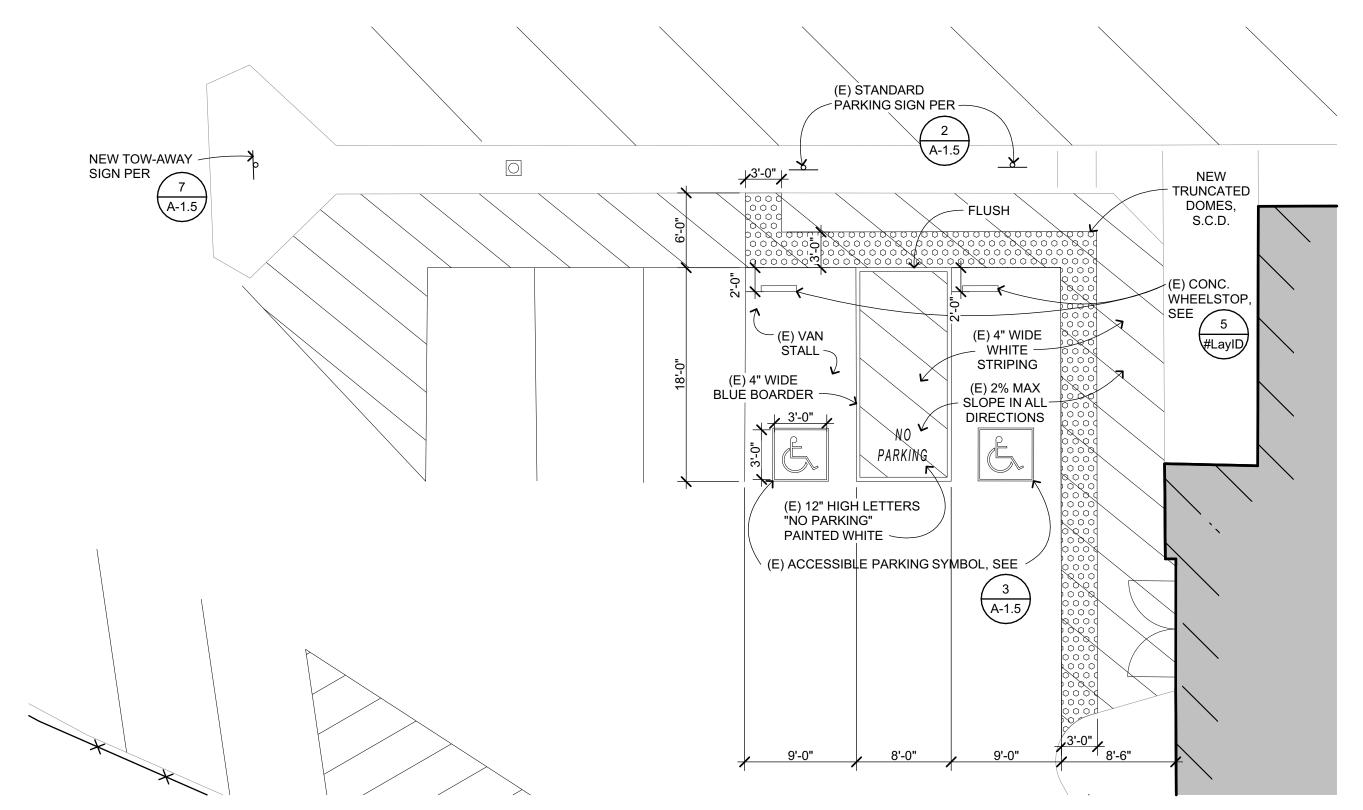


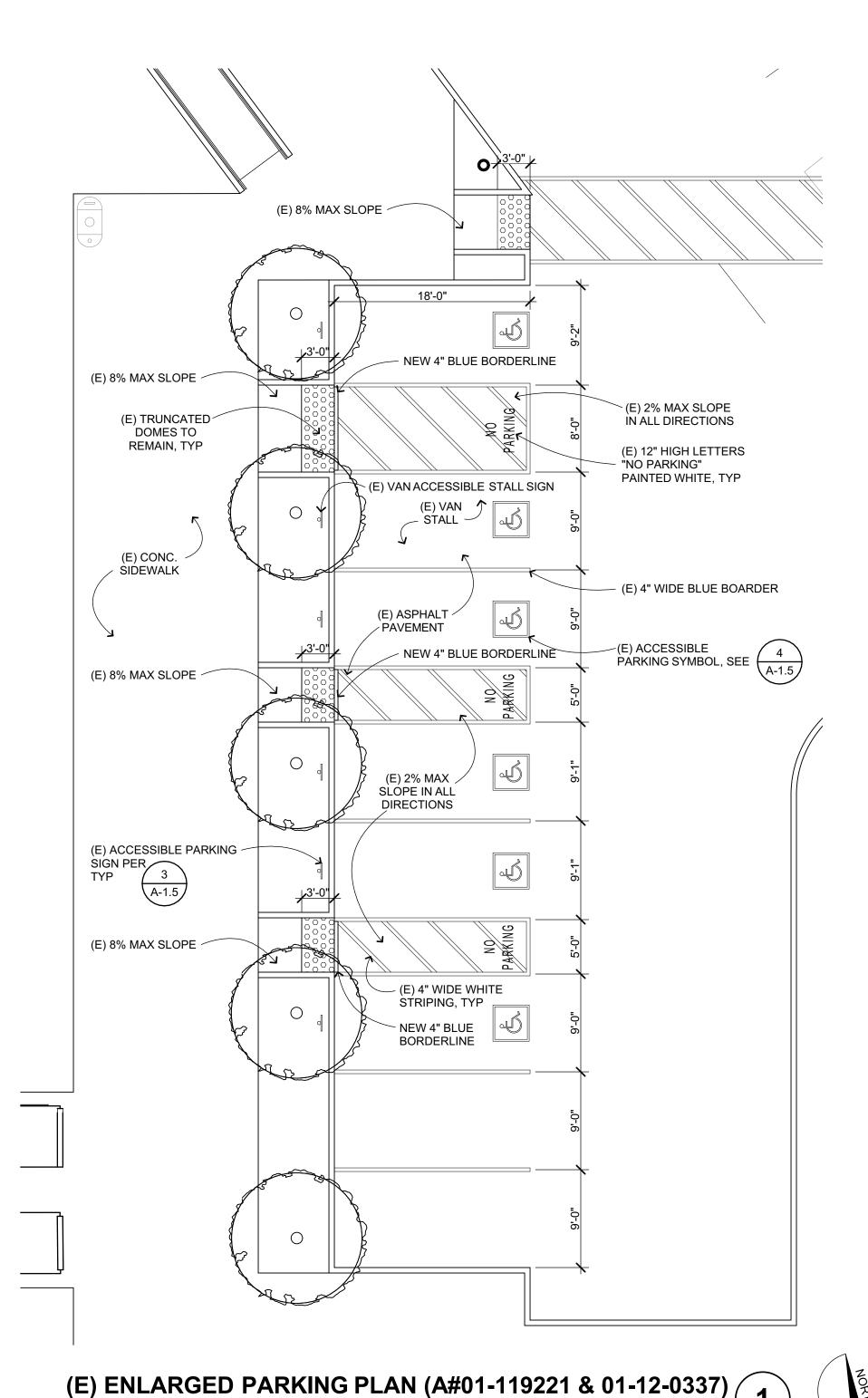






NOTE: THIS WORK IS SHOWN FOR REFERENCE ONLY, N.I.C. ALL AREAS WHERE NEW WORK SHOWN ON SHEET A-1.4 IS TO OCCUR UNDER A# 01-120337.





FOR REFERENCE ONLY

FOR REFERENCE ONLY

TERRA LINDA HIGH SCHOOL

QUATTROCCHI KWOK ARCHITECTS

Main: 636 Fifth Street, Santa Rosa, CA 95404

55 Harrison Street, Suite 525

Oakland, CA 94607

AARON JOBSON

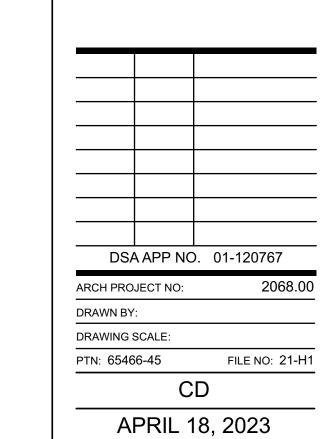
SIGNED: JANUARY 23, 2023

LICENSE # C30620

SHADE STRUCTURE & ENTRY CANOPY

320 Nova Albion Way San Rafael, CA 94903

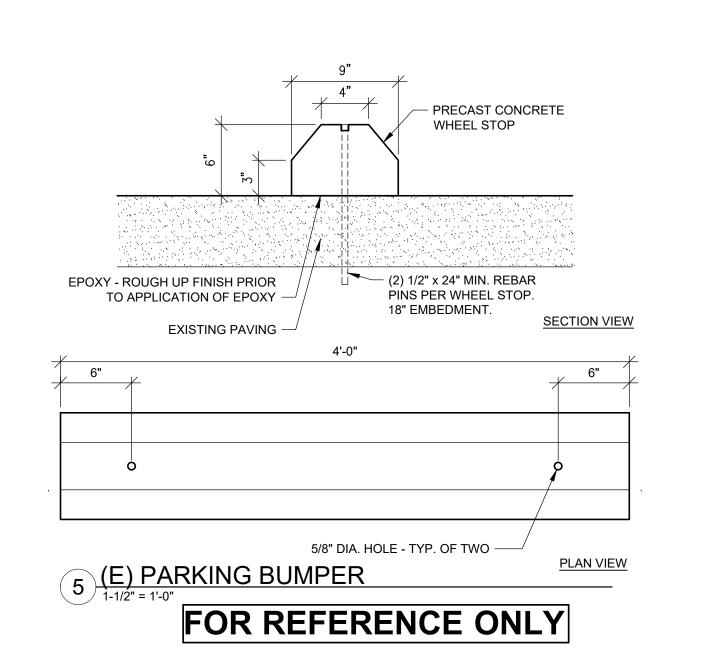
SAN RAFAEL CITY SCHOOLS



(E) ENLARGED PLANS AND **DETAILS**

A-1.5





WHITE INTERNATIONAL SYMBOL OF ACCESSIBILITY —

(E) SIGNS SHALL BE ATTACHED WITH (2) 3/8"

(E) ACCESSIBLE PARKING SIGN (70 SQ. IN. —MIN. SIZE) @ EACH ACCESSIBLE STALL IN CLEAR VIEW BUT NOT OBSTRUCTING PASSAGE

ĎIÁ SS M.B. (TOP AND BOTTOM)

FROM STALLS OR WALKS

(E) VAN ACCESSIBLE SIGN (WHERE INDICATED)

(E) 12" DIA CONC FOOTING

SIGN MOUNTING HEIGHT ARE AS FOLLOWS:

POST ON PATH OF TRAVEL: 80" A.F.G.

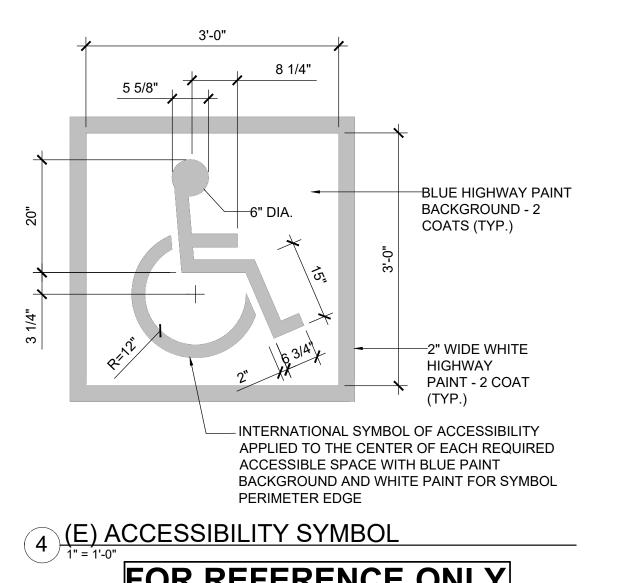
VÂN (E) BLUE BACKGROUND COLOR #15090 (FED. STD. #595C)

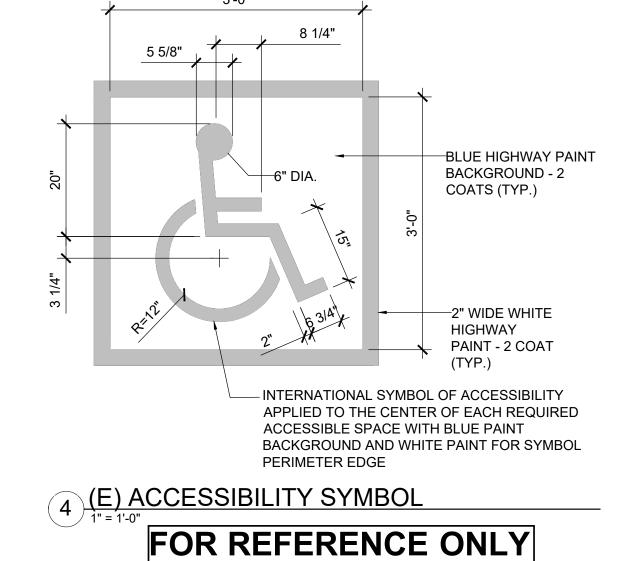
FINISH GRADE (E) 2-1/2" DIA GALVANIZED STANDARD STEEL PIPE POLE

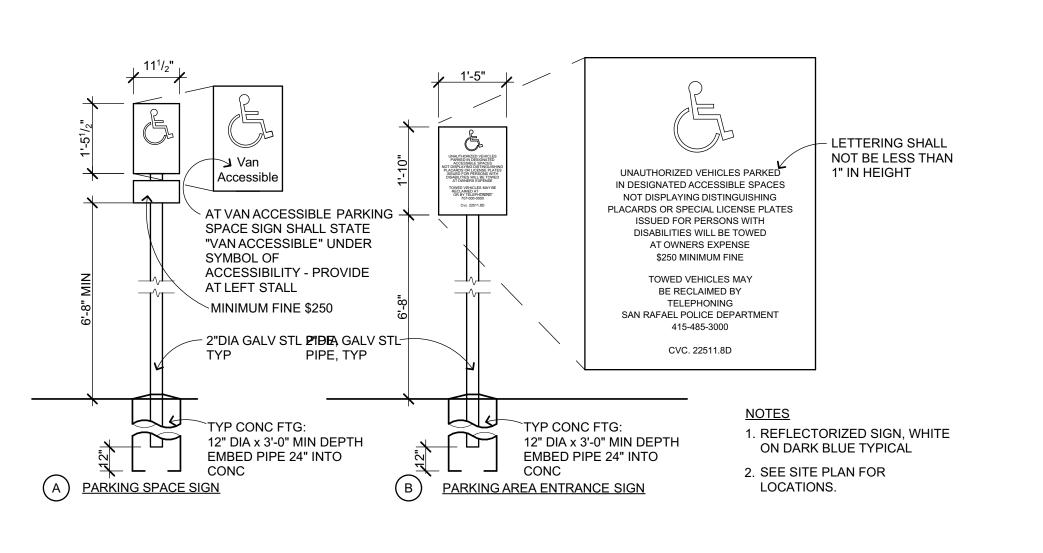
FOR REFERENCE ONLY

MINIMUM

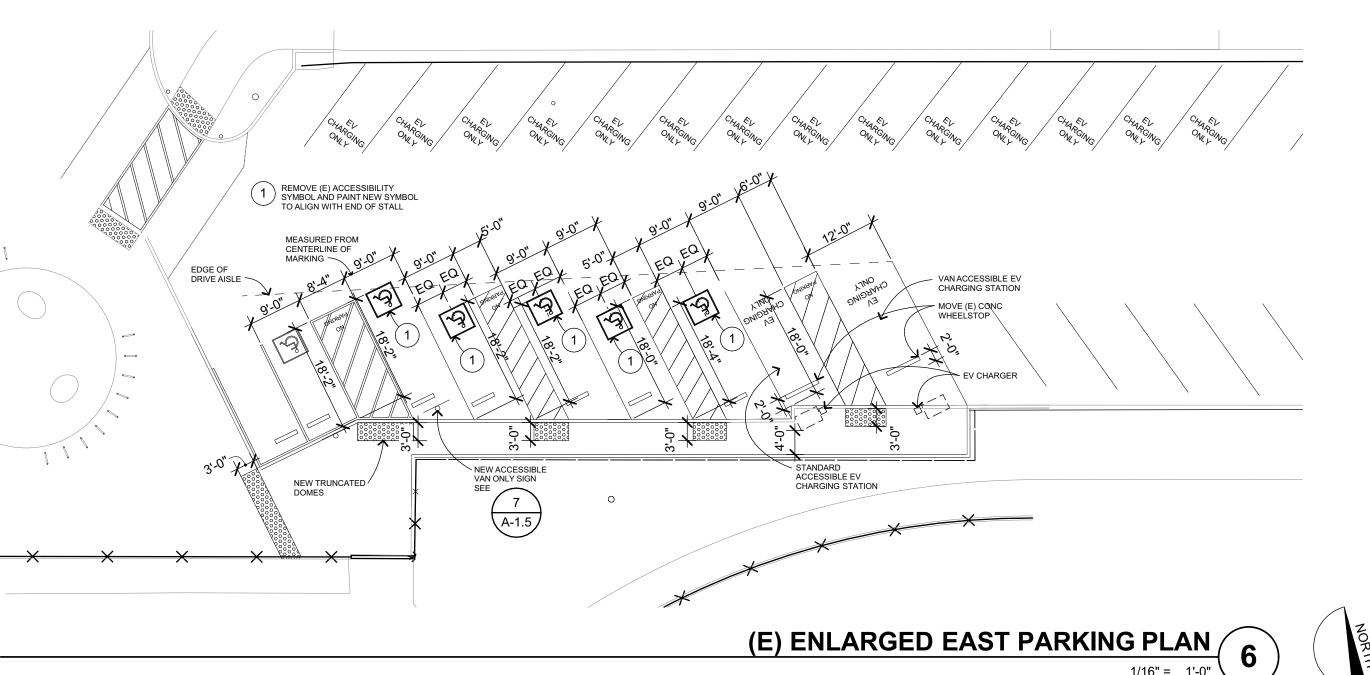
(E) ACCESSIBLE PARKING SIGN

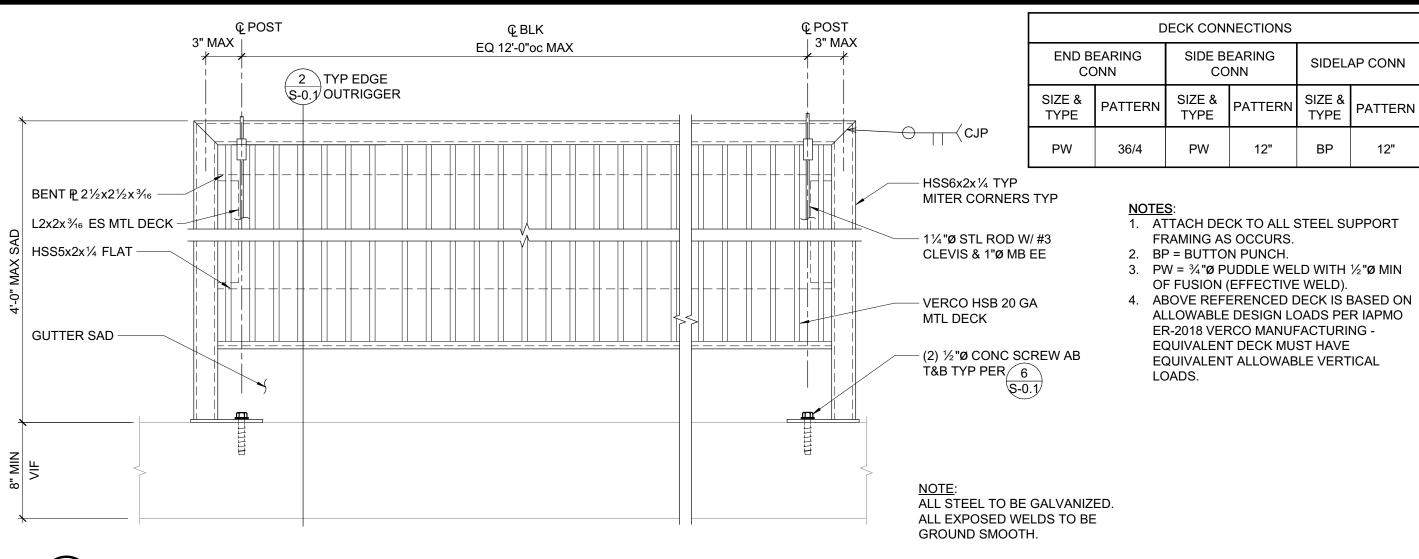












ANCHOR PER PLAN

& DETAILS —

TOP OF CONC -

EDGE OF CONC

W/ HIGH STRENGTH GROUT.

TIGHTENING TORQUE.

1. INSTALL SCREW ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT

INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A OF THE CBC

AND THE REQUIREMENTS OF THE ICC REPORTS. INSTALLED ANCHORS SHALL BRING

CONNECTED PLIES INTO FIRM CONTACT, MEETING THE INSTALL TORQUE BUT NOT

2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE

ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID

4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN

DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND

CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE

ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH,

CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES

3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN INSTALLING DRILLED-IN

IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.

5. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5.

SCREW ANCHOR IN CONCRETE

THAN 12GA (1/8") MAX 1/16 "Ø OVS

HOLE DEPTH

PER MFR

AS OCCURS C_{min} S_{min}

EXCEEDING THE MAXIMUM INSTALL TORQUE.

ANCHOR

TITEN HD

(ICC-ESR

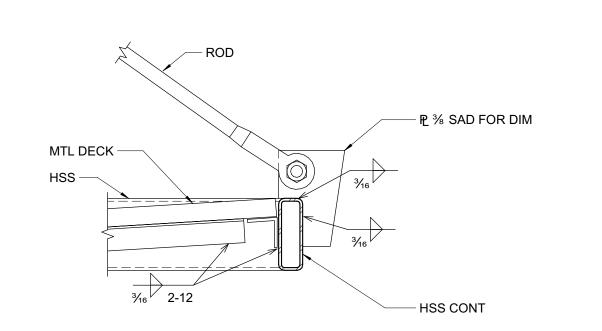
2713)

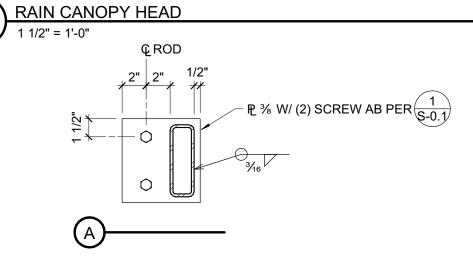
KH-EZ (ICC-ESR

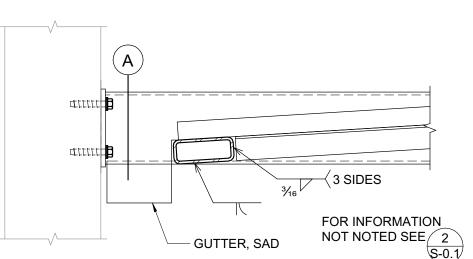
3027)

	SCRE	W ANCHO	OR IN 2500	PSI MIN	N CONCRE	ETE	
۲ ,	ANCHOR AND PILOT HOLE DIA	MINIMUM EMBEDMENT H _{nom}	MINIMUM EDGE DIST C _{min}	MINIMUM SPCG S _{min}	MINIMUM CONCRETE THICKNESS H _{min}	INSTALL	MAXIMUM INSTALL TORQUE (FT-LB)
	1/4"	1%"	1½"	1½"	31/4"	10	24
٧ŀ	3/8"	2½"	1¾"	3"	4"	10	50
	1/2"	31/4"	1¾"	3"	5"	10	65
₹ [5/8"	4"	1¾"	3"	6"	10	100
	3/4"	5½"	1¾"	3"	8¾"	20	150
	1/4"	1%"	1½"	1½"	31/4"	10	18
	3/8"	2½"	1½"	3"	4"	10	40
	1/2"	3"	1¾"	3"	43/4"	10	45
₹	5/8"	31/4"	1¾"	4"	5"	10	85
	3/4"	4"	1¾"	4"	6"	20	95
	CHOR PER	DI AN			OVS HOLE A	l .	

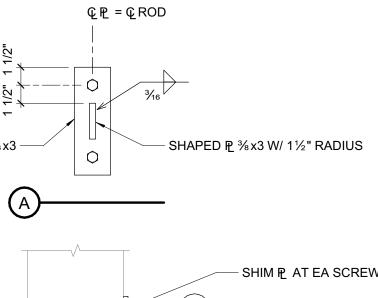
EDGE OUTRIGGER 1 1/2" = 1'-0"

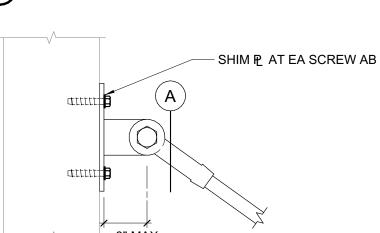






 $\left(4\right)\frac{\text{RAIN CANOPY LOWER CANOPY ATTACHMENT}}{1 \frac{1}{2}" = \frac{1}{-0}"}$





5 DIAGONAL BRACE CONNECTION
1 1/2" = 1'-0"

A DESIGN CRITERIA

DESIGN CRITERIA: ROOF LIVE LOAD: RISK CATEGORY: WIND DATA:

2022 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CBC) 20 PSF (REDUCIBLE)

ULTIMATE WIND SPEED (3 SEC GUST) IN MPH: 110 WIND EXPOSURE: C INTERNAL WIND PRESSURE COEFFICIENT (GCPI) = ±0.18

COMPONENTS AND CLADDING DESIGN PRESSURES FOR SYSTEMS DESIGNED BY OTHERS SHALL COMPLY WITH THE "ASCE 7-16" DESIGN STANDARD, PART 1 CHAPTER 30 FOR WALLS AND ROOF, PART 6 CHAPTER 30 FOR ROOF OVERHANGS EARTHQUAKE DATA: SEISMIC IMPORTANCE FACTOR, I_e: 1.25 MAPPED SPECTRAL RESPONSE ACCELERATIONS: $S_s = 1.50$; $S_1 = 0.60$

SPECTRAL RESPONSE COEFFICIENTS: S_{DS} = 1.20; S_{D1} = 0.68

SCOPE: NEW RAIN CANOPY ON EXISTING CONCRETE BUILDING. NEW PC SHADE STRUCTURE BY OTHERS.

SITE CLASS: D BY DEFAULT

SEISMIC DESIGN CATEGORY: D

GENERAL NOTES

REFER TO THE PROJECT SPECIFICATIONS FOR MATERIALS AND METHODS.

- 2. BUILDING DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS (SAD) FOR ALL ACTUAL BUILDING DIMENSIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER SO CLARIFICATION CAN BE MADE PRIOR TO COMMENCING
- 3. STRUCTURAL DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING
- 4. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
- 5. SHORING AND BRACING DESIGN, MATERIALS AND INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR, AND SHALL BE ADEQUATE FOR ALL LOADS. LEAVE IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY AND UNTIL FINAL STRUCTURAL CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL ENGAGE A LICENSED CIVIL OR STRUCTURAL ENGINEER TO PROVIDE SHORING.
- 6. SPECIAL INSPECTIONS ARE REQUIRED PER THE TESTING AND INSPECTION FORM, SEE SPECIFICATIONS.
- 7. THE ORIGINAL BUILDING DSA APPLICATION NUMBER IS 18095. THE CONTRACTOR SHALL VERIFY ALL EXISTING JOB CONDITIONS, REVIEW THE PLANS AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH ANY WORK.
- 8. ALL WORK NOT INDICATED AS EXISTING (E) SHALL BE ASSUMED TO BE NEW (N).

STEEL NOTES

1. TOP OF STEEL ELEVATIONS ARE TO BE DETERMINED BY THE CONTRACTOR BASED ON ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS.

(D) MATERIAL DATA

(INFORMATION SHOWN IS FOR STRUCTURAL DESIGN REFERENCE ONLY. SEE THE PROJECT SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS.)

STRUCTURAL STEEL (UNO): ANGLES, CHANNELS, AND PLATES - ASTM A36 (Fy = 36,000 PSI) RECTANGULAR HSS - ASTM A500 GRADE C (Fy = 50,000 PSI)

FASTENERS: MACHINE BOLTS SHALL BE ASTM A307 GRADE A ANCHOR RODS SHALL BE ASTM F1554 GR 36 UNO ARC-WELDING ELECTRODES SHALL BE E70

SHEET INDEX

S-0.1 GENERAL NOTES, RAIN CANOPY DETAILS, AND TYPICAL DETAILS



QUATTROCCHI KWOK ARCHITECTS Main Office:

636 Fifth Street, Santa Rosa, CA 95404

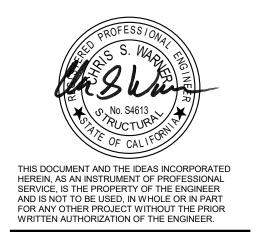
East Bay: 55 Harrison Street, Suite 525,

Oakland, CA 94607

(707) 576-0829

ZFA STRUCTURAL ENGINEERS 1212 fourth street | suite z santa rosa ca 95404 707.526.0992

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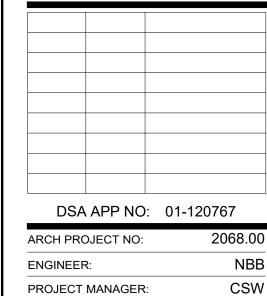
zfa job no. 23003

TERRA LINDA **HIGH SCHOOL**

SHADE STRUCTURE & ENTRY CANOPY

320 Nova Albion Way San Rafael, CA 94903

SAN RAFAEL CITY SCHOOLS



PTN: 65466-45 FILE NO: 21-H1

APRIL 2023

GENERAL NOTES, RAIN **CANOPY** DETAILS, AND
TYPICAL
DETAILS
SHEET NUMBER

<u>DESCRIPTION</u>	<u>DESIGN VALUES</u>
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME) ROOF PANEL DEAD LOAD	5 PSF MAX M=1.1 PSF, G = 1.2 PSF, S = 1.3 PSF
COLLATERAL DEAD LOAD	M = 3.9 PSF, G = 3.8 PSF, S = 3.7 PSF
ROOF SNOW LOAD	W - 3.9 F3F, G - 3.0 F3F, 3 -3.7 F3F
ROUND SNOW LOAD, P _q	20 PSF
RISK CATEGORY	20 F3F
	<u>"</u>
ROOF SNOW LOAD: SLOPED, Ps	20 PSF
SITE APPLICATION DSA REVIEWER SHALL VERIFY THE STRUCTURE BE LOCATED AT	
SNOW LOAD SLOPE FACTOR, C _s	1.0
SNOW EXPOSURE FACTOR, C _e	1.0
SNOW LOAD IMPORTANCE FACTOR, I _s	1.0
THERMAL FACTOR, Ct	1.2
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), Vult	100 MPH
RISK CATEGORY	I III
EXPOSURE CATEGORY	
	0.85, 1, 0.85
FACTORS: K _z , K _{zt} , K _d	
$q_h = 0.00256 \text{ K}_z \text{ K}_{zt} \text{ K}_d \text{ V}^2 \text{ FOR ALL EAVE HEIGHTS (8', 10' & 12')}$	18.50 PSF
C _{NW} PER ASCE FIGURE 27.4-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASE A (1.1 / -1.2) CASE B (0.01 / -0.69)
C _{NL} PER ASCE FIGURE 27.4-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)
C _N PER ASCE FIGURE 27.4-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED	CASE A (-0.6 / -0.9) CASE B (-0.5 / -0.5)
COMPONENTS & CLADDING - C _N (PRESSURE/SUCTION) CLEAR / OBSTRUCTED	ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0)
SOME CHERTO & SEABBING ON (TRESSORE/SSOCIETY) SEE/ACT SBOTTCOTEB	ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3)
	ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)
SEISMIC DESIGN	ZONE 1 - (1.107 - 1.00) / (0.07 - 1.0)
ATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
BESIMIC IMORTANCE FACTOR, le	1.0
BEISMIC SITE CLASS	D
MCE _R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S _S	2.60
MCE _R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S ₁	0.90
SHORT PERIOD SITE COEFFICIENT, F _a	1.20
LONG PERIOD COEFFICIENT, F _v	1.70
FUNDAMENTAL PERIOD OF THE STRUCTURE, T	0.152 s
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS}	2.08
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS} - USED TO	2.08 * 0.70 = 1.456
DETERMINE Cs (WITH CAP PER ASCE 7 12.8.1.3)	2.00 0.10 - 1.400
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-s PERIODS, S _{D1}	1.02
SEISMIC DESIGN CATEGORY	E
RESPONSE MODIFICATION FACTOR, R	1.25
OVERSTRENGTH FACTOR, Ω	1.25
REDUNDANCY FACTOR, ρ	1.0
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE
SEISMIC RESPONSE COEFFICIENT, Cs (20' WIDE, 30' WIDE, 40' WIDE)	1.16,
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE)	12.74 PSF, 10.58 PSF, 13.62 PSF
ALL CLAVABLE COLUMN DEAD NO FOR FOLINDATIONS	VARIES - SEE FOUNDATION CHARTS
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA	

STRUCTURAL SEPARAT	TON			
ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-	DEFLECTIONS ARE FOR (1) STRUCTURE			
		SOIL C	LASSES PER CBC TABLE 18	06A.2
MAXIMUM DRIFT omax SIDE COLUMNS		Soil Class 5	Soil Class 4	Soil Class 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.40	2.55	2.65
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.15	2.30	2.40
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) MINIMUM SEPARATION ($\delta_m = Cd \ \delta_{max}$) $Cd = 1.25$	(INCHES)	2.20	2.20	2.30
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.00	3.19	3.31
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.69	2.88	3.00
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.75	2.75	2.88
MAXIMUM DRIFT δm ax END COLUMNS		Soil Class 5	Soil Class 4	Soil Class 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.40	2.55	2.65
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.15	2.30	2.40
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) MINIMUM SEPARATION ($\delta_m = C_d \ \delta_{max}$) $C_d = 1.25$	(INCHES)	2.20	2.20	2.30
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.00	3.19	3.31
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.69	2.88	3.00

2.75

ARCHITECTURAL REQUIREMENTS					
DESC RIPTION	DESIGN VAULES				
TYPE OF CONSTRUCTION	II-B				
OCCUPANCY CLASSIFICATION	A-3				
NUMBER OF STORIES	1				
FIRE SPRINKLER SYSTEM	NOT BY ICON/WEIGHT NOT INCLUDED IN DESIGN				

RELATED BUILDING CODES AND STANDARDS

40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)

TITLE 24 CODES:

- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC).. ..(PART 1, TITLE 24, CCR) 2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, AND 2.(PART 2, TITLE 24, CCR) 2019 CALIFORNIA ELECTRICAL CODE. .(PART 3, TITLE 24, CCR) 2019 CALIFORNIA MECHANICAL CODE (CMC). .(PART 4, TITLE 24, CCR)
- (PART 5, TITLE 24, CCR) 2019 CALIFORNIA PLUMBING CODE (CPC).. 2019 CALIFORNIA ENERGY CODE .(PART 6, TITLE 24, CCR) 2019 CALIFORNIA FIRE CODE (CFC) .(PART 9, TITLE 24, CCR` 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE.....(PART 11, TITLE 24, CCR) 2019 CALIFORNIA REFERENCE STANDARDS CODE.. ..(PART 12, TITLE 24, CCR)
- REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:
- 2019 CBC, CHAPTER 35 2019 CFC, CHAPTER 80

SCOPE OF WORK NARRATIVE

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRIC ATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF HOLLOW STRUCTURAL STEEL MEMBERS SUPPORTED BY CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THE STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

- 1. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT
- 2. WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C. TITLE 24, AND ALL OTHER LOCAL, STATE AND FEDERAL REGULATIONS
- 3. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS, ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- 5. THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISIT TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE
- ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION. 6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
- 7. CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE
- ARCHITECT/ENGINEER OR OWNER. 8. THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO
- ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES. 9. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- 10. THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF
- 11. SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIREMENTS.
- 12. LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA
- FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. 13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

- 1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
- 2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
- 3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), Fy = 46 KSI. MIN. 4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
- 5. ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, Fy =36 KSI.
- 6. ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, Fy= 50 KSI.
- 7. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, CS = TYPE B, Fy = 50 KSI. 8. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
- 9. ALL ROOF DECKS SHALL HAVE KYNAR 500 METAL COATING.
- 10.ALL ROOF DECKS SHALL CONFORM TO ASTM A-792, Fy = 50 KSI.

INSTRUCTIONS FOR ARCHITECTS SUBMITTING THESE PRE-CHECKED DRAWING TO DSA: BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE

STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT

-GABLE STRUCTURES UP TO 20' WIDE USE THE "RG 20" BASE FRAME -GABLE STRUCTURES UP TO 30' WIDE USE THE "RG 30" BASE FRAME -GABLE STRUCTURES UP TO 40' WIDE USE THE "RG 40" BASE FRAME -MAXIMUM WIDTH IS 40' (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)

-THE 24', 44', 64', 84' AND 104' LENGTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST COMMON (20' BAYS ARE THE MOST ECONOMICAL) -FRAME LENGTHS ASSUME 2' OVERHANGS (UNO BY ARCHITECT - 2' MAX DIMENSION)

STEP 2: SELECT ROOF DECK FOR YOUR PROJECT -"M" REPRESENTS McELROY METAL "MULTI—RIB" ROOF PANEL

STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS:

- -"G" REPRESENTS McELROY METAL "MEGA-RIB" ROOF PANEL -"S" REPRESENTS McELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF PANEL
- STEP 3: IDENTIFY THE Ss ACCELERATION (q) FOR YOUR PROJECT
- -Ss VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES -Ss VALUE DEPENDS ON THE PROJECTS GEOGRAPHICAL LOCATION (VALUES RANGE FROM 0.00 TO 3.73)
- STEP 4: IDENTIFY THE Ss REGION FOR YOUR PROJECT -THE REGIONS ARE DEPENDANT ON THE Ss VALUE DETERMINED IN STEP 3

CONSTRUCTION.

- -THE Ss REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED ON THE FRAME (SEE TABLE TO RIGHT)
- STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT -THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
 - -THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME -BE SURE THE TOTAL ROOF DEAD LOAD FOR YOUR PROJECT IS LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4 FOR YOUR Ss VALUE -Sds VALUE USED IN CALCULATION IS THE CAPPED Sds (SEE DESIGN CRITERIA)

-MARK UP PC DRAWINGS WITH SIZE AND LOCATION OF CUTOUTS BEFORE SUBMITTING TO DSA

- STEP 6: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT -IDENTIFY SOIL CLASS FOR PROJECT SITE PER SITE SPECIFIC SOIL CONDITIONS
- -USE THIS TO SELECT CORRECT FOUNDATION SIZE ON FOUNDATION SHEET STEP 7: SELECT MISCELLANEOUS OPTIONS FOR YOUR PROJECT -MAXIMUM CLEAR HEIGHT IS 12'-0"; (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
- STEP 8: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT -REFERENCE THE BASE FRAME (STEP 1) AND THE ROOF PANEL TYPE (STEP 2) -IDENTIFY THE APPLICABLE SHEÈT INDEX
- STEP 9: INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL -INCLUDE 'MISC DESIGN OPTIONS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

- 1. PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL
- BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS. 2. FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN
- GENERAL RESPONSIBLE CHARGE. 3. FOR THE SITE SPECIFIC PROJECT, J.R. MILLER & ASSOCIATES' RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC ONLY.
- 4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM J.R. MILLER & ASSOCIATES' RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT. 5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED

ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE.

BUT ARE NOT LIMITED TO, APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK. 6. J.R. MILLER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS

AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC WHICH ARISE DURING PLAN REVIEW AND

- 1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS
- CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY DSA. 2. ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD
- SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-16 @ (0° F). 3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE
- PROPER MATERIAL ID AND WELDING. 4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFIC ATIONS.

- 1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS 6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
- CONFORMING TO ASTM A-563.
- 2. HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1. 3. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS - INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE
- 4. HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
- 5. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME. ALL BOLTS SHALL BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.
 - A)PRETENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:
 - 1. TURN-OF-NUT PRETENSIONING
 - 2. CALIBRATED WRENCH PRETENSIONING
 - 3. DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)

FOUNDATIONS:

- 1. ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED
- 2. PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SIESMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
- 3. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
- 5. MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET
- 6. PER CBC SECTION 1803A.6, GEOHAZARD REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SIESMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
- 7. GEOHAZRD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8 8. SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IS USING OTHER THAN
- CLASS 5 SOIL, PER DSA IR PC-7 9. LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 & HAS BEEN DESIGNED FOR P-DELTA EFFECTS

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH Pc (28 DAYS)	W/C RATIO (NON—AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SLUMP (±1")	UNIT WEIGHT (NORMAL WEIGHT)
4500 PSI	0.44	0.35	3"	150 PCF

3. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA. 4. AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.005.

2. CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES FO, F1 & F2. THE AIR

- MAX AGGREGATE SIZE = 1". 5. CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 6. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.

ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6

7. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.

FRAME WIDTH

- 8. CONCRETE DURABILITY SHALL BE PER CBC 1904A.1 ACI 318-14, CHAPTER 19. 9. CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-14, SECTION 26.12.
- STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT

PROJECT NAME: SCHOOL DISTRICT: TLHS CTE Shade Structure San Rafael City Schools

FRAME DIMENSIONS

SUGGESTED

		FRAME LENGTH		[] 64'	[]84'	[] 104'	[] (NO MAX)				
	7		ROOF PANEL								
	STEP	ROOF PANEL TYPE		[] M	[] G	⊠ s					
,											
	Z EP	PROJECT SITE — Ss ACCELERATION (g)									

[] 20' [30' [] 40'

	Ss REGION							
			Ss REGIONS	MAX DEAD LOAD				
4			0 < Ss <= 2.14	5 PSF				
STEP	DESC RIPTION		2.14 < Ss <= 2.50	5 PSF				
			2.50 < Ss <= 2.75	5 PSF				
			2.75 < Ss <= 3.00	4 PSF				
			Ss > 3.73 MAX	3 PSF				

Г	TOTAL ROOF DEAD LOAD							
		DEAD LOAD	EXAMPLES					
أتر	ROOF DECK	PSF	M=1.1PSF; G=1.2PSF; S=1.3PSF (SEE STEP 2)					
	COLLATERAL	PSF	LIGHTING, ECT.					
	TOTAL	PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)					

REINFORCING STEEL:

- 1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615,
 - GR 60: (#4 BARS AND LARGER)

GR 40: (#3 BARS)

- 2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
- 3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
- A. CAST AGAINST EARTH
- B. CAST AGAINST FORM BELOW GRADE
- C. FORMED SLABS (#11 BAR & SMALLER)......3/4" D. SLABS ON GRADE (FROM TOP OF SLAB)......1"
- 4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE
- 5. REINFORCING SHALL BE LAP SPLICED PER ACI 318-14, SECTION 25.5.
- 7. WELDING OF REINFORCING IS NOT ALLOWED. 8. REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

KSI

MAX

MIN

ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS

KIPS PER SQUARE INCH

MINIMUM

MISC ELLANEOUS

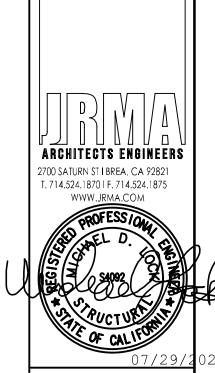
- 1. THE STEEL FRAME SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS. 2. THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN MINIMUM EIGHT STAGE ELECTRO DEPOSITION
- 3. IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY IMMERSED IN A LIQUID EPOXY PRIMER(E-COAT) AND COATED TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL
- PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL 4. THE STEEL SHALL THEN HAVE A TGIC POLYESTER COLOR COAT APPLIED OVER THE E-COATED SURFACE.
- 5. THE COLOR COAT SHALL THEN HAVE A CLEAR TGIC COATING APPLIED TO SEAL IN THE COLOR COAT AND RESIST ULTRAVIOLET LIGHT, TO HELP PREVENT FADING.
- 6. THE FINISH THICKNESS OF THESE THREE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS. 7. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME

OTHERWISE	R THE "AISC CODE OF STANDARD PRACTICE AND E).	THE "AISC	SPECIFICATION SECTION M3 (UNLESS NOTED
ABBREVIAT	TONS:		
ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	М	MULTI-RIB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	NO	NUMBER
AWS	AMERICAN WELDING SOCIETY	ОС	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
C JP	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	SQ	SQUARE
IN	INCHES	SS	STANDING SEAM ROOF PANEL (MCELROY)

TYPIC AL

UNLESS NOTED OTHERWISE U.S. GEOLOGIC AL SURVEY

DRAWN BY **ANGEL** DATE 4/2/202 REV REV DATE



DIV. OF THE STATE ARCHITEC APP: 04-120012 PC REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 CG 🗆 DATF:

FOUNDATION REQUIREMENTS SOIL CLASS 5 (BEARING)-1500 PSF [] SOIL CLASS 3 (BEARING)-3000 PSF [∑ SOIL CLASS 4 (BEARING)-2000 PSF [] SOIL CLASS 5 (LATERAL BEARING)-100 PSF | SOIL CLASS 4 (LATERAL BEARING)-150 PSF | SOIL CLASS 3 (LATERAL BEARING)-200 PSF

MISCELLANEOUS

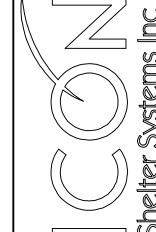
USGS

DESIGN OPTIONS CLEAR HEIGHT [] 8' [] 10' 🔀 12' (12' MAX) ELECTRICAL CUTOUTS [X] YES [] NO **GUTTERS** [X] YES [] NO

	SHEET INDEX												
	BASE FRAME		RG 20				RG 30				RG 40		
	ROOF PANEL TYPE		М	G	S		М	G	S		М	G	S
	SELECT ONE		[]	[]	[]		[]	[]	\bowtie		[]	[]	[]
	GENERAL NOTES		LS1.0	LS1.0	LS1.0		LS1.0	LS1.0	LS1.0		LS1.0	LS1.0	LS1.0
	DSA 103 EXAMPLE		LS1.1	LS1.1	LS1.1		LS1.1	LS1.1	LS1.1		LS1.1	LS1.1	LS1.1
В В	FOUNDATION PLAN		LS2.0	LS2.0	LS2.0		LS3.0	LS3.0	LS3.0		LS4.0	LS4.0	LS4.0
STEP	FRAMING PLAN		LS2.1	LS2.1	LS2.1		LS3.1	LS3.1	LS3.1		LS4.1	LS4.1	LS4.
	FRAME CONNECTION DETAILS		LS2.1	LS2.1	LS2.1		LS3.1	LS3.1	LS3.1		LS4.1	LS4.1	LS4.
	ROOFING LAYOUT & DETAILS		LS2.2	LS2.3	LS2.4		LS3.2	LS3.3	LS3.4		LS4.2	LS4.3	LS4.4
	MISC DESIGN OPTIONS		LS5.0	LS5.0	LS5.0		LS5.0	LS5.0	LS5.0		LS5.0	LS5.0	LS5.0

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ISTINCTIVE STEEL SHELTERS

616.396.0919 800.748.0985 616.396.0944 FX

PRE-CHECK (PC) DOCUMENT Code: 2019 CBC

A separate project application for construction is required

PRINTED ON:

CONSTRUCTION NOTES

- 1. A DSA-CERTIFIED CLASS 3 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
- 2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE

OTHER

[] (40' MAX)

- DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. $\,$ 3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE
- CONTINUOUS INSPECTION OF WORK, THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. 4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- 5. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF
- PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK, (SECTION 4-317(c), PART 1, TITLE 24, CCR) 6. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPE	CIAL INSPECTIONS, 2019 CBC	DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTION		DSA 103-19: LISTING OF STRUCTURAL TEST	TS & SPECIAL INSPECTIONS (SOILS), 2019 CBC School District:	DSA 103-19: LISTING OF STRUCTURAL TI	STS & SPECIAL INSPECTIONS (SOILS), 2019 CBC	
Applica of Number: School Name: 04-000000 ICON Shelter Systems DSA File Number: Increment Number:	School District: PC Submittal Date Created:	Application Number: School Name: 04-000000 ICON Shelter Systems DSA File Number: Increment Number:	School District: PC Submittal Date Created: 2021-07-14 05:50:33	Application Number: School Name: 04-000000 ICON Shelter Systems DSA File Number: Increment Number:	School District: PC Submittal Date Created: 2021-07-14 05:50:33	Application Number: School Name: 04-000000 ICON Shelter System: DSA File Number: Increment Number:	School District: PC Submittal Date Created: 2021-07-14 05:50:33	
mo onone aumon.	2021-07-14 05:50:33		2021-07-14 UJ.3U:33	-		5. RETAINING WALLS:		
		Ocateshalad David British Brit	the connected two constitutions of the transfer of the transfe	c. Compaction testing.	Test LOR* * Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix for exemptions where	Test or Special Inspection a. Placement, compaction and inspection of backfill.	Type Performed By Code References and Notes Continuous GE* 1705A.6.1.* By geotechnical engineer or his or here	qualified
IMPORTANT: This form is only a summary list. Estruc	2019 CBC stural tests and some of the special inspections required for the project.	Geotechnical Reports: Project has a geotechnical report, or CDs indicate so 1. GENERAL: Table 1705A.6			(Refer to specific items identified in the Appendix for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)		representative. (See Section 2 above).	
Generally, the structural tests and special inspections no. of Record, Laboratory of Record, or Special Inspector. The a	on this form are those that will be performed by the Geotechnical Engineer acts. Complete test and inspection program must be performed as detailed	By	Code References and Notes		291 Shall Sausiy the soil test reporting requirements for the exempt items.)	b. Placement of soil reinforcement and/or drainage devices.	Continuous GE* * By geotechnical engineer or his or her qualified rep	
inspection or structural testing. The project inspector is res	tom of the form identifies work NOT subject to DSA requirements for special sponsible for providing inspection of all facets of construction, including but the as structural wood framing, high-load wood diaphragms, cold-formed steel	Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.	By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)	4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):	Table 1705A.8	c. Segmental retaining walls; inspect placement of units, dowels, connectors, etc. d. Concrete retaining walls.	Continuous GE* * By geotechnical engineer or his or her qualified reposed DSA IR 16-3. Provide tests and inspections per CONCRETE section below.	resentative
framing, anchorage of non-structural con	nponents, etc., per Title X. Part 2, Chapter 17A (2019 CBC).	Foundation excavations are extended to proper depth and have reached proper material. Materials below footings are adequate to achieve the		Test or Special Inspection a. Inspect drilling operations and maintain complete	Type Performed By Code References and Notes Continuous GE* * By geotechnical engineer or his or her qualified representative.	e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.	
**NOTE: Undefined section and table references for KEY TO COLUMNS	ound in this document are from the SBC, or California Building Code.	design bearing capacity.		and accurate records for each pier. b. Verify pier locations, diameters, plumbness, bell	(See Appendix for exemptions.) Continuous GE* * By geotechnical engineer or his or her qualified representative.	6. OTHER SOIL Test or Special Inspection	Type Performed Code References and Notes	
1. TYPE	PERFORMED BY GE – Indicates that the special inspection shall be pendinged by a	2. SOIL COMPACTION AND FILL: Table 1705A.6 Test or Special Inspection Type Performed	Code References and Notes	diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.		a. Soil Improvements	By Test GE* Submit a comprehensive report documenting final	oil improvements
Continuous – Indicates that a continuous special inspection is required	registered geotechnical engineer or his or her authorized representative.	□ a. Perform classification and testing of fill materials. Test LOR*	Under the supervision of the geotechnical engineer.	c. Confirm adequate end strata bearing capacity. d. Concrete piers.	Continuous GE* * By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.) Provide tests and inspections per CONCRETE section below.		testing and analysis to CGS for final acceptance.	ts of the confirmation presentative
	LOR – Indicates that the test or special inspection shall be performed by a laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA)	inspect lift thicknesses, placement and compaction	By geotechnical engineer or his or her qualified representative. (Refer to pecific items identified in the Appendix for exemptions where soils SI and esting may be conducted under the supervision of a geotechnical	d. Concrete pers.	Trovide tests and inspections per conveniers section below.	b. Inspection of Soil Improvements	Continuous GE* * By geotechnical engineer or as or her qualified reg	presentative
Periodic – Indicates that a periodic special inspection is required	Program. See CAC Section 4-335. PI – Indicates that the special inspection may be performed by a project		esting may be conducted under the supervision of a geocetimical sengineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt					
Test – Indicates that a test is required	inspector when specifically approved by DSA. SI – Indicates that the special inspection shall be performed by an appropriately		lettis.j	DGS DSA 103-19 (Revised 07/16/2020)		DGS DSA 103-19 (Revised 07/16/2020)		
	qualified/approved special inspector.	DGS DSA 103-19 (Revised 07/16/2020)		DIVISION OF THE STATE ARCHITECT	DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 3 of 11	DIVISION OF THE STATE ARCHITECT	DEPARTMENT OF JENERAL SERVICES rage 4 of 11	STATE OF CALIFORNIA
DGS DSA 103-19 (Revised 07/16/2020) DIVISION OF THE STATE ARCHITECT DEPAR*	TMENT OF GENERAL SERVICES STATE OF CALIFORNI	DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SER	/ICES STATE OF CALIFORNIA	A				
	Page 1 of 11		IONS (Congrets), 2010 CBC	DSA 103-19: LISTING OF STRUCTURAL TES	STS & SPECIAL INSPECTIONS (Concrete), 2019 CBC	DSA 103-19: LISTING OF STRUCTURATES	TS & SPECIAL INSPECTIONS (Concrete), 2019 CBC	
DSA 103-19: LISTING OF STRUCTURAL TESTS & SPE	School District:	DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECT Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13 Application Number: School Name:	School District: PC Submittal	Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13 Application Number: School Name: 04-000000 ICON Shelter Systems	School District: PC Submittal	Table 1705A.3; ACI 318-14 Sections 26.12 & 27.3 Application Number: Schor Name: 04-000000 SA File Number: Increment Number:	School District: PC Submittal Date Created:	
04-000000 ICON Shelter Systems DSA File Number: Increment Number:	PC Submittal Date Created: 2021-07-14 05:50:33	04-000000 ICON Shelter Systems DSA File Number: Increment Number:	PC Submittal Date Created: 2021-07-14 05:50:33	DSA File Number: Increment Number:	Date Created: 2021-07-14 05:50:33	Increment Number:	Date Created: 2021-07-14 05:50:33	
7. CAST-IN-PLACE CONCRE Test or Special Inspection Ty	pe Performed Code References and Notes	17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCT Material Verification and Testing:	URAL PDA 10	b. Test high-strength bolts, nuts and washers.	Test LOR Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.	19.1 SHOWELDING: To or Special Inspection	Type Performed Code References and Notes	
Material Verification and Testing:	By State of the st	Test or Special Inspection Type Performed By		Inspection of High-Strength Bolt Installation: C. Bearing-type ("snug tight") connections.	Periodic SI Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2,	a. Inspect groove welds, multi-pass fillet welds, single fillet welds > 5/16", plug and slot welds.	Ву	341-16 as
	odic SI Table 1705A.3 Item 5, 1910A.1. st LOR 1910A.2; ACI 318-14 Section 26.6.1.2; DSA IR 17-10. (See Appendix for		Table 1705A.2.1 Item 3a–3c. 220. 1: AISI S100-16 Section A3.1 & A3.2, AISI S240-15 Section A3 & A5, AISI S220. Sections A4 & A6. * By special inspector or qualified technician when period ed off-site.	 ☑ d. Pretensioned and slip-critical connections. 	M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9. * SI Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J , J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *	 		60-16 (and AISC
	exemptions.) St LOR Table 1705A.3 Item 6; ACI 318-14 Sections 26.5 & 26.12.	Material sizes, types and grades comply wit requirements. D. Test unidentified materials Test LOR	2202A.1.	-	"Continuous" or "Periodic" depends on the tightening methodsed.	c. Inspect welding of stairs and railing systems.	Periodic SI 1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable DSA IR 17-3.); AWS D1.1 & D1.3;
tests, and determine the temperature of the concrete.	st LOR 1905A.1.15; ACI 318-14 Section 26.12.		DSA IR 17-3.	19. WELDI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for strendral steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reign acting steel; DSA IR 17-3 (See Appendix for exemptions.)	d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic SI 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivamill certificates. Continuous SI Table 1705A.3.1 Itam 5b. 1705A.3.1 Table 1705A.3.	
Inspection:			Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).	erification of Materials, Equipment, Welders, etc.:	Type Performed Code References and Does	e. Inspect welding of reinforcing steel.	Continuous SI Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 AWS D1.4; DSA IR 17-3.	iiii 2, 1903A.0;
□ e. Batch plant inspection: See M	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plan inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. (See Appendix for approximately 2)	18. HIGH-STRENGTH BOLTS: RCSC 2		a. Verify was diller material identification markings per	Periodic SI DSA IR 17-3	23. ANCHOR BOLTS AND ANCHOR RODS: Test or Special Inspection	Type Performed Code References and Notes	Г
☐ f. Welding of reinforcing steel. Provid	e special inspection per STEEL, Category 19.1(d) & (e) and/or 19.2(g) & (h) below.	Material Verification and Testing of High-Strength Bolts, Nuts and Washers: Test or Special Inspection	Code References and Notes	AWS designat. listed on the DSA-approved documer and the WPS. D. Verify weld filler mate. Lmanufacturer's certificate of		a. Anchor Bolts and Anchor Rods	Test LOR Sample and test anchor bolts and anchor rods not read procedures noted in DSA IR 17-11.	ly identifiable per
			Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.	compliance. C. Verify WPS, welder qualifications d equipment.	Periodic SI DSA IR 17-3.	b. Threaded rod not used for foundation anchorage.	Test LOR Sample and test threaded rods not readily identifiable protection DSA IR 17-11.	per procedures
		specified in the DDA-approved documents.						
				DGS DSA 103-19 (Revised 07/16/2020)	X	DGS DSA 103-19 (Revised 07/16/2020)		
DGS DSA 103-19 (Revised 07/16/2020) DIVISION OF THE STATE ARCHITECT DEPAR	RTMENT OF GENERAL SERVICES STATE OF CALIFO Page 5 of 11	DGS DSA 103-19 (Revised 07/16/2020) NIA DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SI Page 6 of 11	RIVICES STATE OF CALIFORNIA	DIVISION OF THE STATE ARCHITECT	DEPARTMEN OF GENERAL SERVICES STATE OF CALIFORNI Page 5 of 11	DIVISION OF THE STATE ARCHITECT A	DEPARTMENT OF GENERAL SERVICES Page 8 of 11	STATE OF CALIFORNIA
	Tage 3 01 11							
	CIAL INSPECTIONS (Steel and Aluminum), 2019 CBC	DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTA	IONS(SIGNATURE), 2019 CBC School District:	DSA 103-19: L'OF REQUIRED VERIFIED R Application Number: School Name: ICON Shelter Systems	School Strict: PC Submitte			
1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 341-16, AISC 358-16, AISC 364-000000 DSA File Number: ICON Shelter Systems Increment Number:	SC 360-16; AISI \$100-16 School District: PC Submittal Date Created:	O4-000000 ICON Shelter Systems DSA File Number: Increment Number:	PC Submittal Date Created: 2021-07-14 05:50:33	DSA Fit Number: Increment Number:	Date Created: 2021-07-14 05:50:33			
DSA File Number: increment number:	2021-07-14 05:50:33							
		Name of Architect or Engineer in general responsible charge:		Soils Testing and Inspection: Geotechnical Verified	Report Form DSA 293			
		Name of Structural Engineer (When structural design has been delegated):		Structural Testing and Inspection: Laboratory Verifi	Gied Report Form DSA 291			
23. ANCHOR BOLTS AND ANCHOR RODS: Test or Special Inspection Type Type	pe Performed Code References and Notes			3. DSA 292	ort Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form			
✓ a. Anchor Bolts and Anchor Rods Te	st LOR Sample and test anchor bolts and anchor rods not readily identifiable procedures noted in DSA IR 17-11.	Signature of Architect or Structural Engineer: Date:		4. High-Strength Bolt Installation Inspection: Laborato Report Form DSA 292	ory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified			
□ b. Threaded rod not used for foundation anchorage. Te	St LOR Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.	Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA re	mends against using secured electronic or digital signatures.					
			DSA STAMP					
DGS DSA 103-19 (Revised 07/16/2020) DIVISION OF THE STATE ARCHITECT DEPAR	TMENT OF GENERAL SERVICES STATE OF CALIF	DGS DS-03-19 (Revised 07/16/2020) ASION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SORNIA	ERVICES STATE OF CALIFORNIA	DGS DSA 103-19 (Revised 07/16/2020) IIA DIVISION OF THE STATE ARCHITECT	DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA			
	Page 9 of 11	Page 10 of 11			Page 11 of 11			

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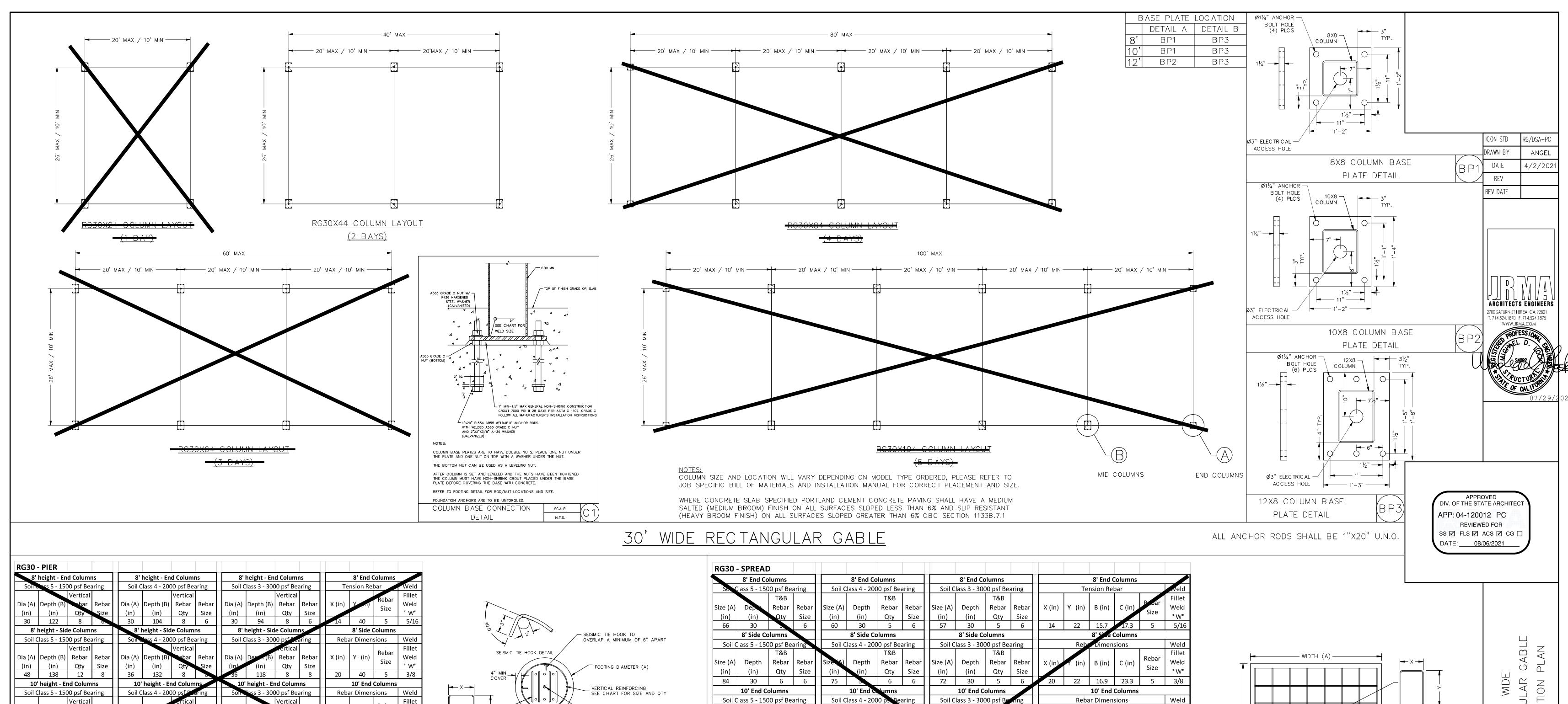
DSA

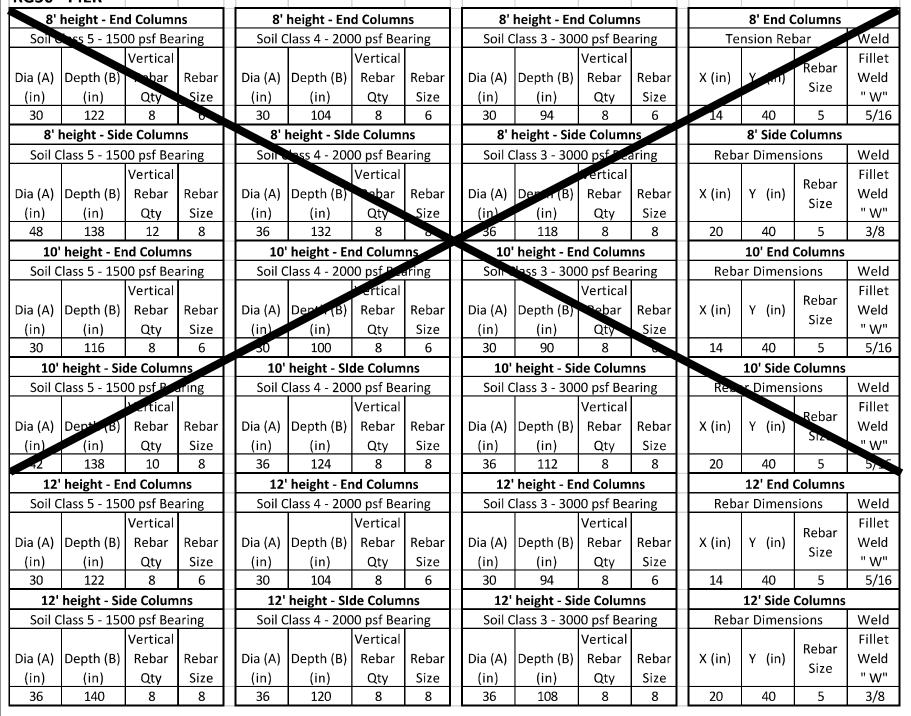
DISTINCTIVE STEEL SHELTERS WWW.ICONSHELTERS.COM

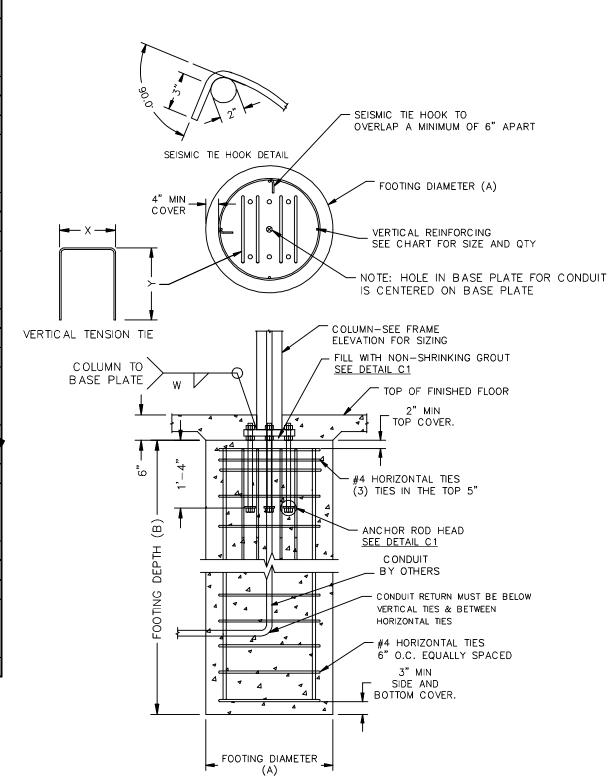
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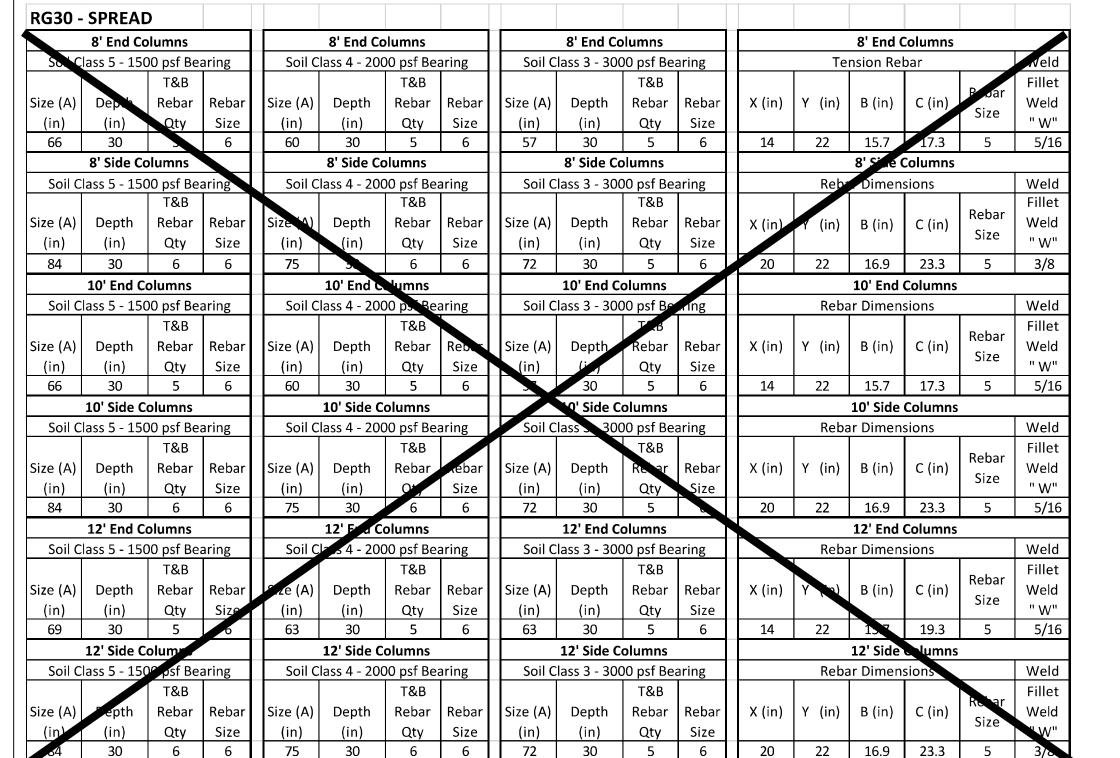
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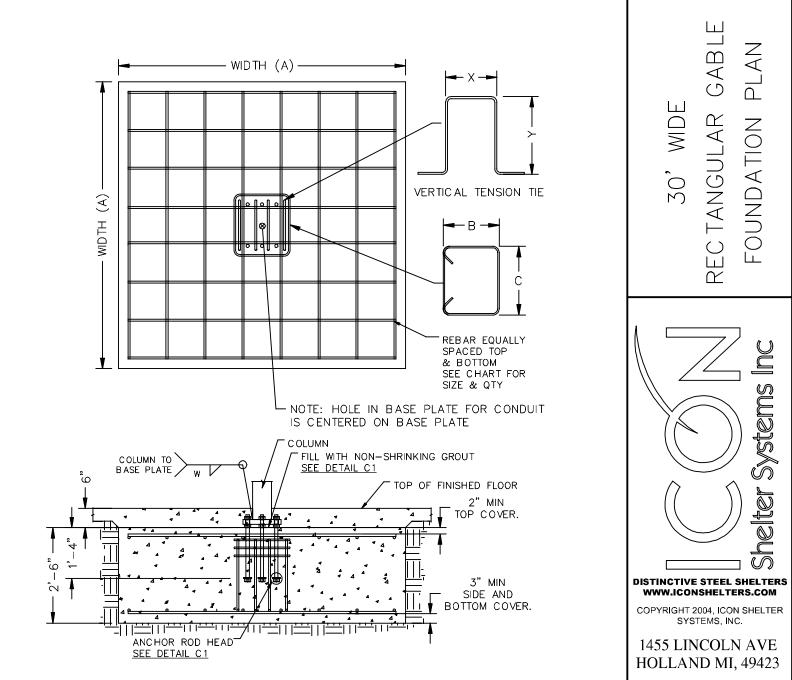






FOOTING DIAMETER (A)
SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
B1 & B2 ARE A (4) BOLT PATTERN WHILE B3 IS A (6) BOLT





SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS B1 & B2 ARE A (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

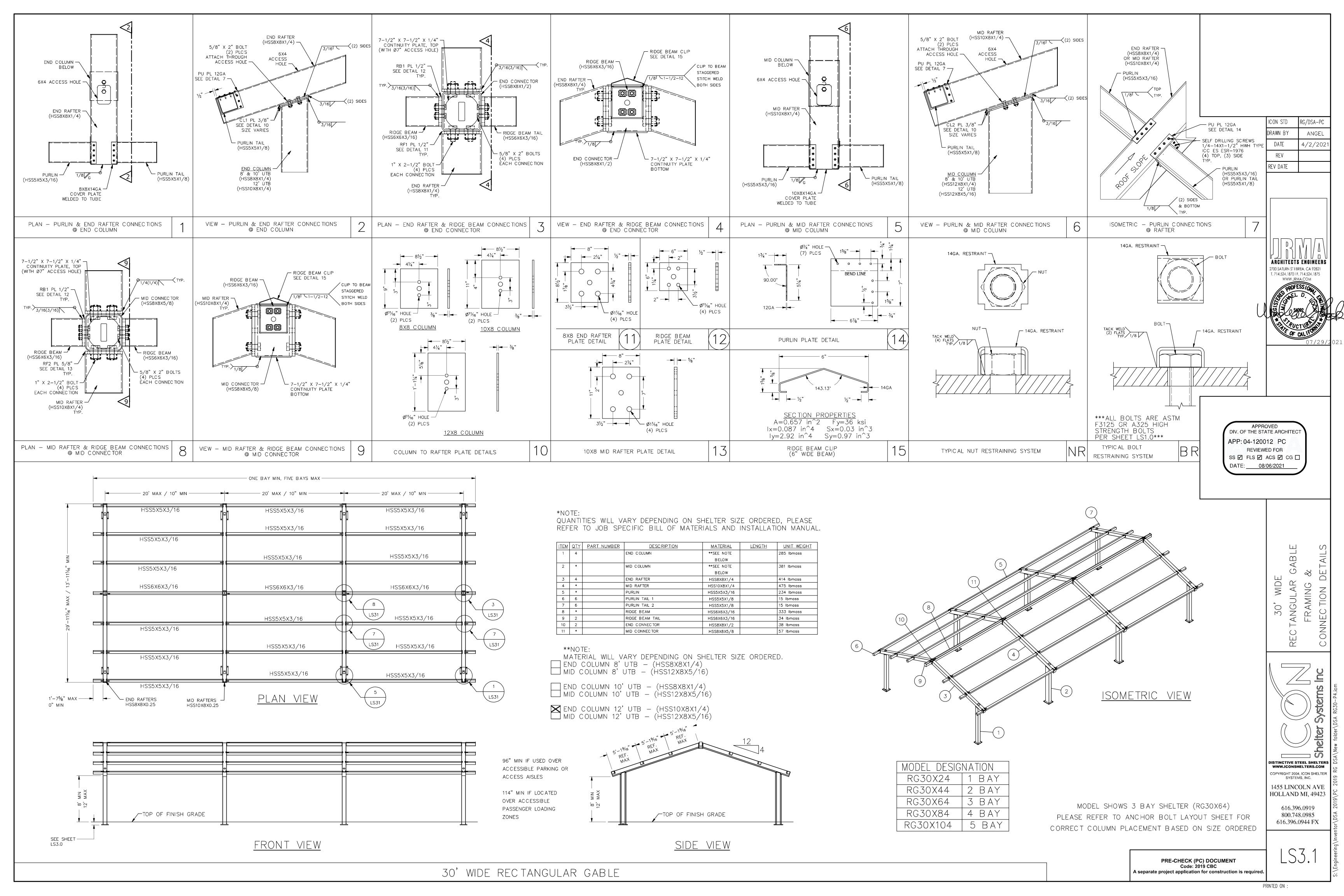
> PRE-CHECK (PC) DOCUMENT A separate project application for construction is required

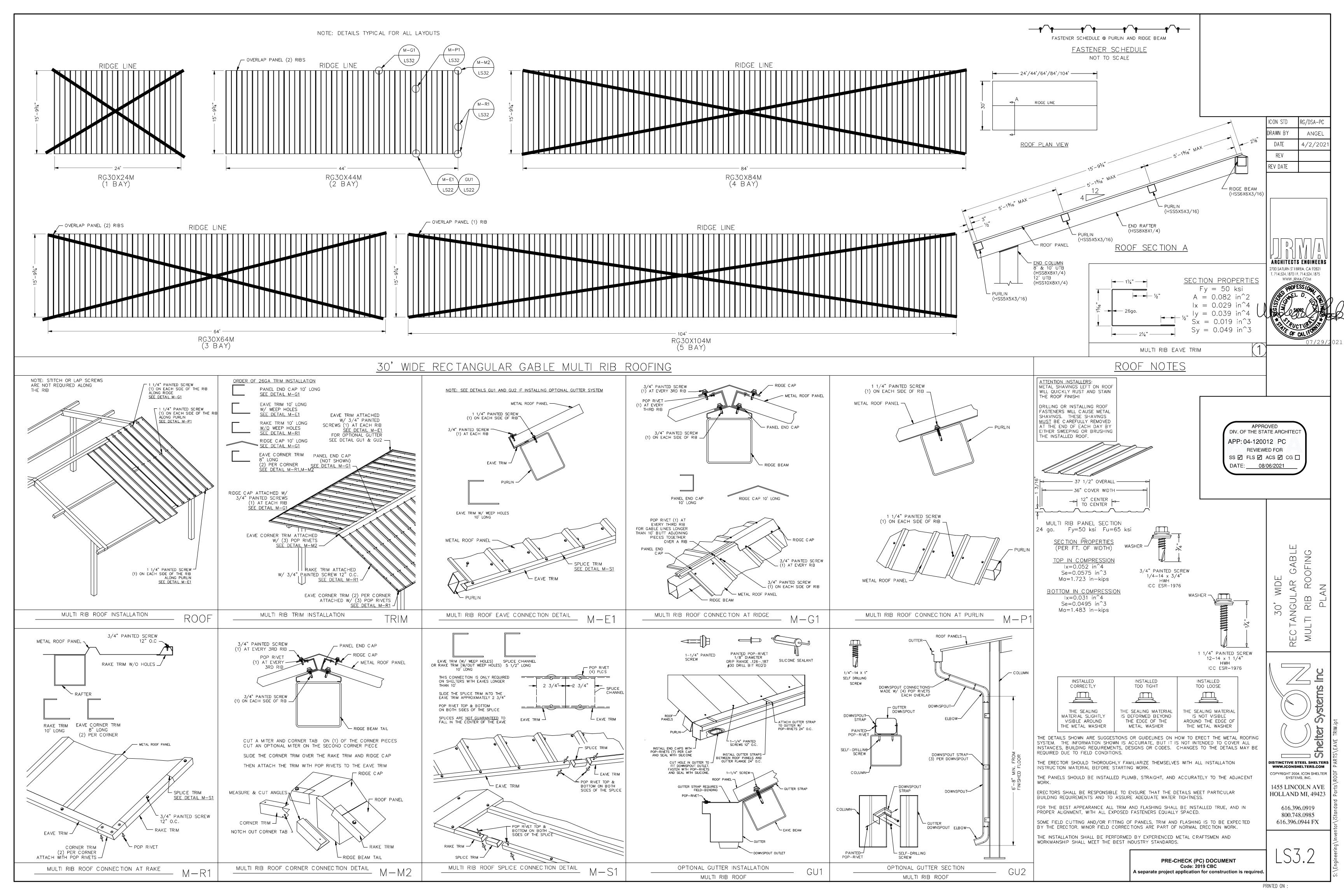
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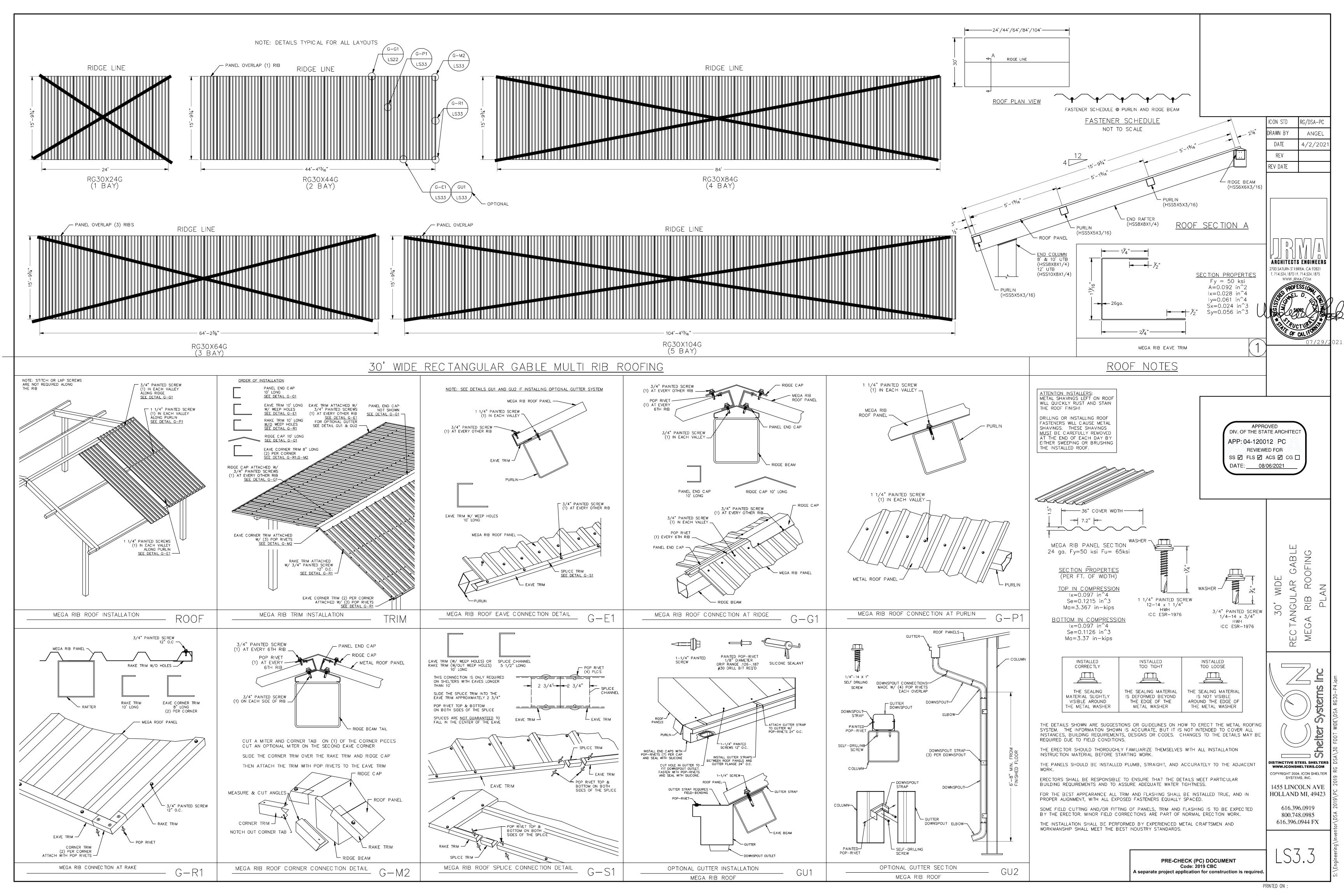
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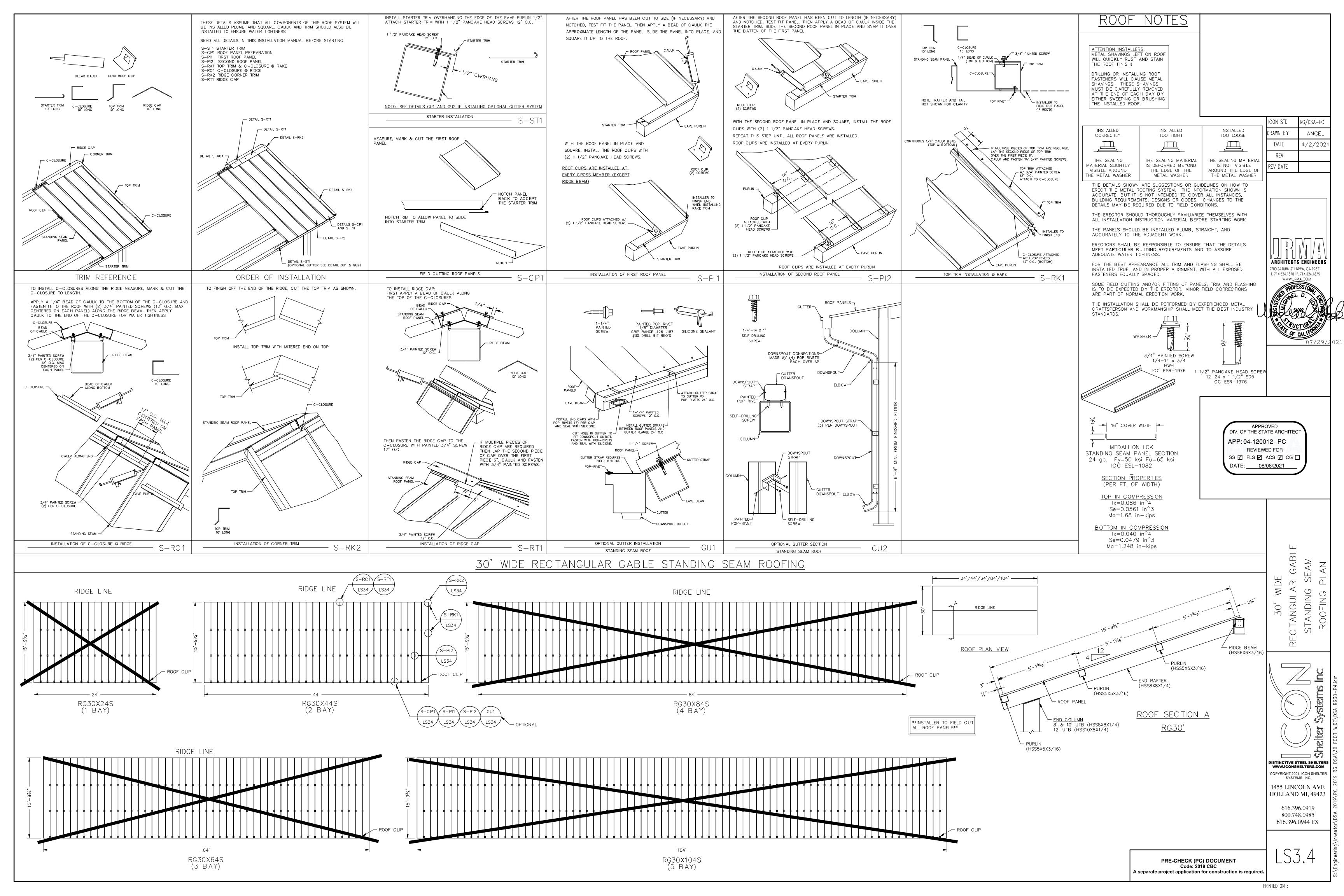
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ELECTRICAL INFORMATION - RECTANGULAR GABLE

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

CONDUIT PATHWAY -

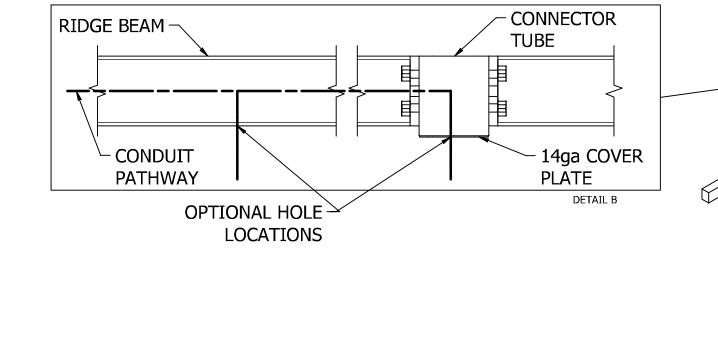
COLUMN.

PROVIDED FOR EACH

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

OPTIONAL EXIT HOLES IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY)
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY
REQUIRED EXIT HOLE LOCATIONS AND SIZE.



RAFTER

TIE BEAM

TIE BEAM -

COLUMN -

CONDUIT

PATHWAY

- ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

☐ 3/4" CONDUIT (1" HOLES)

☐ OTHER (PLEASE SPECIFY

☐ 1" CONDUIT (1 1/4" HOLES)

NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO <u>ELEVATION</u> AND <u>FRAME</u> SHEETS IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.

STEPS:

SHOWN. SPECIFY IF OTHER

- COLUMN

- BASE PLATE

BASE DETAIL

CONDUIT -

(NOT BY ICON)

Ø3" HOLE THROUGH

EACH COLUMN BASE

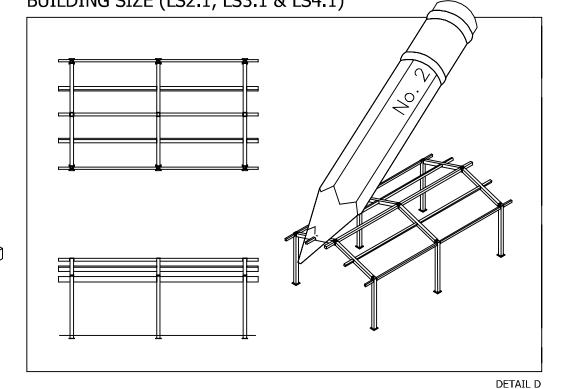
1. CONDUIT HOLE SIZE (DETAIL A)

2. ELECTRICAL EXIT HOLES (DETAIL B)

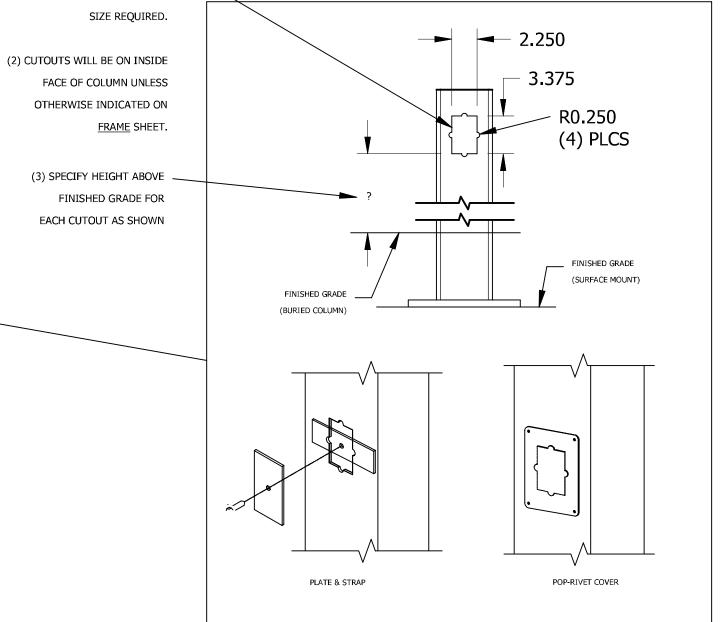
3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)

4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET REQUIRED FOR BUILDING SIZE (LS2.1, LS3.1 & LS4.1)



OPTIONAL CUTOUTS USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY) SEE REQUIRED INFO BELOW (1) STANDARD CUTOUT SIZE



(4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)

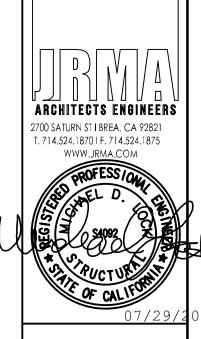
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:

☐ PLATE & STRAP

□ POP-RIVET COVER PLATE

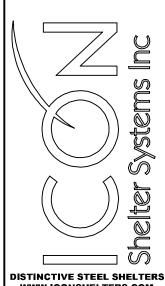
HOW MANY REQUIRED?__

REV DATE



APPROVED DIV. OF THE STATE ARCHITEC APP: 04-120012 PC SS ☑ FLS ☑ ACS ☑ CG □

> ELEC TRIC / OPTIONAL AC(



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ELECTRICAL EQUIPMENT ANCHORAGE

ELECTRICAL ANCHORAGE NOTES:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16, CHAPTER 13, 26, AND 30.

- .. ALL PERMANENT EQUIPMENT AND COMPONENTS.
 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTAC
- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- A. COMPONENT WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT
- SUPPORT THE COMPONENT.

 B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM WALL.

THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (eg., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ELECTRICAL DISTRIBUTION SYSTEMS ARE: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

LIGHT FIXTURES:

ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.

SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.

ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE

SYMBOLS LIST

ALL SWITCH AND CONTROL MOUNTING HEIGHTS OF 48" SHALL BE TO TOP OF THE DEVICE BOX. ALL RECEPTACLES WITH MOUNTING HEIGHT OF UP TO 18" SHALL BE NO LOWER THAN 15" TO BOTTOM OF THE DEVICE BOX, TYPICAL, U.O.N.

SURFACE CEILING MOUNTED LUMINAIRE

SURFACE CEILING MOUNTED LUMINAIRE

UNDER CABINET LUMINAIRE

LINE VOLTAGE SINGLE POLE TOGGLE SWITCH, LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.

MAIN SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER

FLUSH MOUNTED PANELBOARD, 6'-6" TO TOP

SURFACE MOUNTED PANELBOARD, 6'-6" TO TOP

FLUSH CEILING MOUNTED JUNCTION BOX, U.O.N.

FLUSH WALL MOUNTED JUNCTION BOX, UP 18" U.O.N.

20A 3PG 125V DUPLEX RECEPTACLE, UP 18" U.O.N.

20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER

TYPE, UP 18" U.O.N.

SPECIAL RECEPTACLE (NEMA # AS NOTED)

CONDUIT AND WIRE CONCEALED IN CEILING OR WALL

---- CONDUIT AND WIRE CONCEALED IN OR UNDER SLAB OR UNDERGROUND

CONDUIT AND WIRE RUN EXPOSED

CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, NO HASHMARKS INDICATES (2) #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, U.O.N.

GROUND WIRE

) WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE, THROUGHOUT THE COMPLETE CIRCUIT

FLEXIBLE METALLIC CONDUIT

HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS

COMPLETE CONNECTION OF EQUIPMENT

CONDUIT STUBBED OUT, CAPPED AND MARKED

CONDUIT TURNED DOWN

DETAIL DESIGNATION - <u>SEE</u> DETAIL 3, SHEET E-6

NUMBERED SHEET NOTE

CONDUIT TURNED UP

NUMBERED SHEET NOTE THAT REFERS TO TYPICAL ITEMS ON SHEET

ABBREVIATIONS

AFG ABOVE FINISHED GRADE

C CONDUIT

CONDUIT ONLY

CU COPPER

C. ELECTRICAL CONTRACTOR

EXISTING

QPT EQUIPMENT

EXT EXTERIOR

GFI GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE

LV LOW VOLTAGE

B MAIN CIRCUIT BREAKER

MLO MAIN LUGS ONLY

(N) NEW

N.E.C. NATIONAL ELECTRICAL CODE

N.I.E.C. NOT IN ELECTRICAL CONTRACT

O.F.C.I. OWNER FURNISHED, CONTRACTOR INSTALLED

PNL PAI

.O.N. UNLESS OTHERWISE NOTED

P WEATHER PROOF, NEMA 3R

CALIFORNIA GREEN BUILDING STANDARDS COMPLIANCE

ALL EXTERIOR LUMINAIRES SPECIFIED IN THESE CONTRACT DOCUMENTS COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION A5.106.8 LIGHT POLLUTION REDUCTION. EXTERIOR LUMINAIRES COMPLY WITH BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS AS DEFINED IN IESNA TM-15-11 AND BUG RATINGS DO NOT EXCEED THE MAXIMUM ALLOWABLE RATINGS FOR THIS PROJECT.

GENERAL NOTES

- 1. PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO ADEQUATELY DETERMINE ALL PRE-EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING THE BID.
- 2. PROVIDE PARITY SIZED GREEN GROUND WIRE IN ALL POWER CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND HOMERUNS.
- 3. COORDINATE TRENCHING WITH OWNER AND OTHER TRADES BEFORE BEGINNING WORK.
- 4. ALL CONDUIT PENETRATIONS THROUGH WALLS SHALL BE SEALED WEATHER-TIGHT.
- 5. DO NOT INSTALL ANY OUTLETS BACK TO BACK IN STUD WALLS OR DE-MOUNTABLE PARTITIONS.
- 6. THE CONTRACTOR SHALL VERIFY ALL CEILING TYPES BEFORE ORDERING OF LUMINAIRE(S). ALSO VERIFY THAT ALL FEATURES CALLED FOR IN LUMINAIRE DESCRIPTIONS ON THE LUMINAIRE SCHEDULE ARE INCLUDED WITH CATALOG NUMBERS LISTED ON THE LUMINAIRE SCHEDULE WHEN LUMINAIRE ORDERS ARE PLACED, AND ARE INCLUDED AS PART OF THE LIGHTING SUBMITTALS FOR THIS PROJECT. IF A DISCREPANCY EXISTS, CONTACT THE ARCHITECT AND ELECTRICAL ENGINEER FOR CLARIFICATION PRIOR TO BID.
- . CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS IN THE BUILDING AND AT THE SITE AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS.
- 8. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS, AND/OR CALLED FOR IN THE SPECIFICATIONS.
- 9. DRAWINGS INDICATE THE LOCATION(S) OF DEVICES, LUMINAIRE(S) AND EQUIPMENT, AND THE CIRCUIT NUMBER AND PANEL DESIGNATED TO SUPPLY THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON
- 10. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED COMPLETE UNDER THIS CONTRACT.
- 11. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
- 12. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REQUIREMENTS.
- 13. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- 14. THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.
- 15. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE ARCHITECTURAL AND CANOPY DRAWINGS PRIOR TO ROUGH-IN.
- 16. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS.
- 17. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS ARE NOT ACCEPTABLE.
- 18. ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE CLEARLY IDENTIFIED BY MEANS OF "EZ" NUMBERING TAGS OR EQUIVALENT, TO IDENTIFY THE CIRCUIT NUMBER OR RELAY SUPPLYING THE CONDUCTOR. ALL JUNCTION BOXES SHALL BE LABELED PER SPECIFICATIONS.
- 19. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT, BOXES, PANELBOARDS, AND RELATED FITTINGS OR ACCESSORIES INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR) SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH THEY ARE MOUNTED TO (AFTER INSTALLATION). PAINTING SHALL INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH SURROUNDING CONDITIONS OR OTHER BUILDING FEATURES TO WHICH THE EQUIPMENT IS ATTACHED AND VISIBLE. VERIFY EXACT JUNCTION BOX LOCATION(S) AND ROUTING OF EXPOSED RACEWAYS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- 20. PROVIDE A BLANK COVER PLATE (COLOR TO MATCH ADJACENT DEVICES OR AS SPECIFICALLY CALLED FOR IN SPECIFICATIONS) FOR ALL JUNCTION BOXES (NEW AND EXISTING) ON THE PROJECT WHEN NO DEVICE IS INSTALLED.
- 21. TWO OR THREE DIFFERENT PHASES SUPPLIED BY A 3-PHASE PANEL MAY SHARE A SINGLE NEUTRAL ONLY IF CIRCUIT POSITIONS ARE ADJACENT IN THE PANEL. PROVIDE COMMON HANDLE-TIE ON BREAKERS FOR MULTI-WIRE BRANCH CIRCUITS, WITH COMMON NEUTRAL, PER NEC REQUIREMENTS.

LIST OF DRAWINGS

E-0.1 SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS

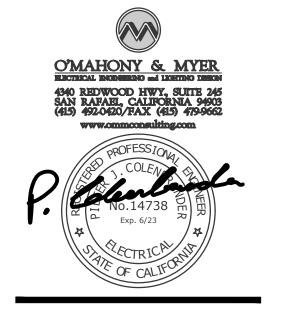
E-1.2A SITE PLAN - ELECTRICAL & EXISTING LIGHTING

E-7.1 SHADE STRUCTURE ELECTRICAL PROVISIONS

E-1.2 SITE PLAN - ELECTRICAL

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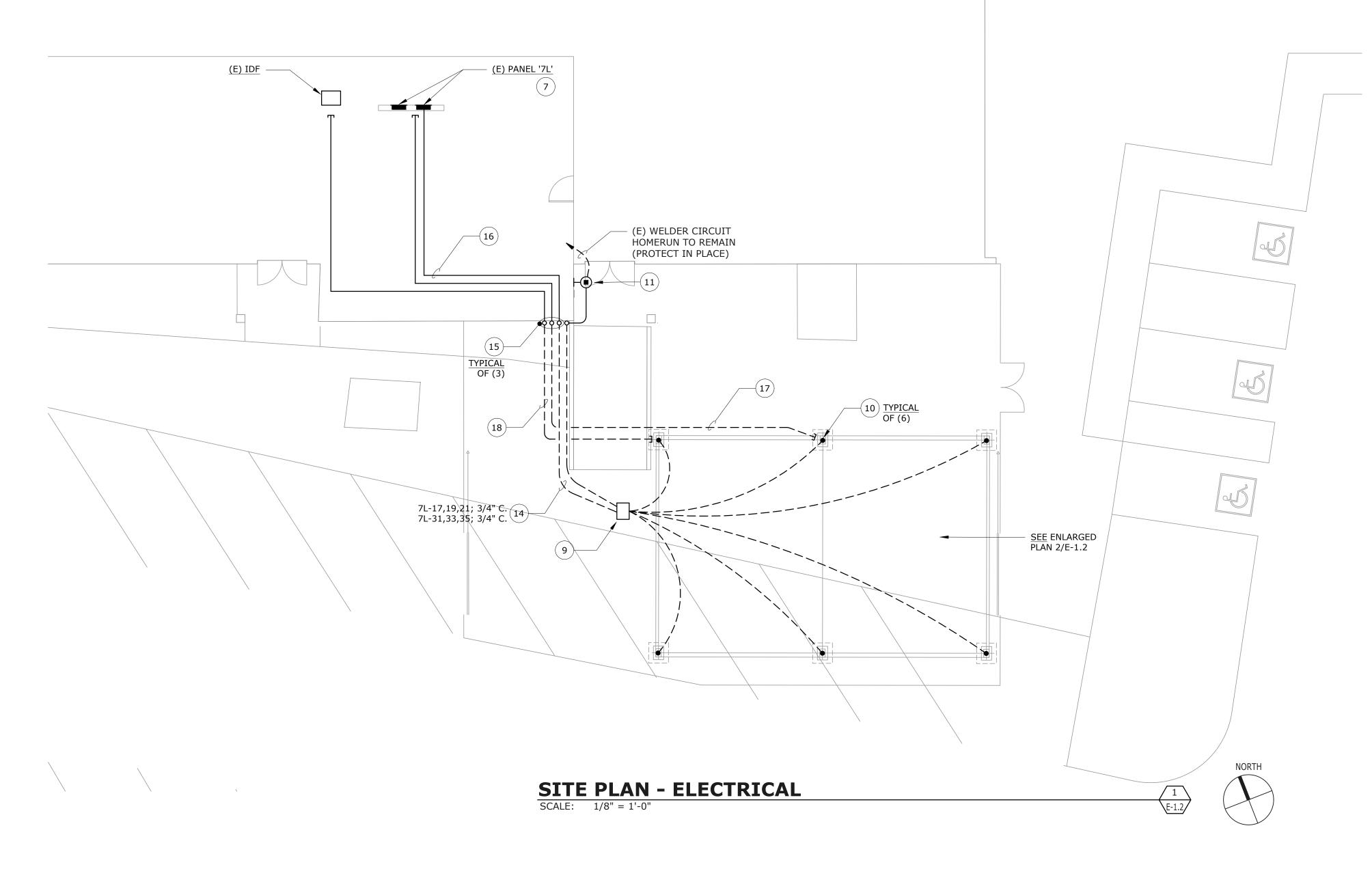
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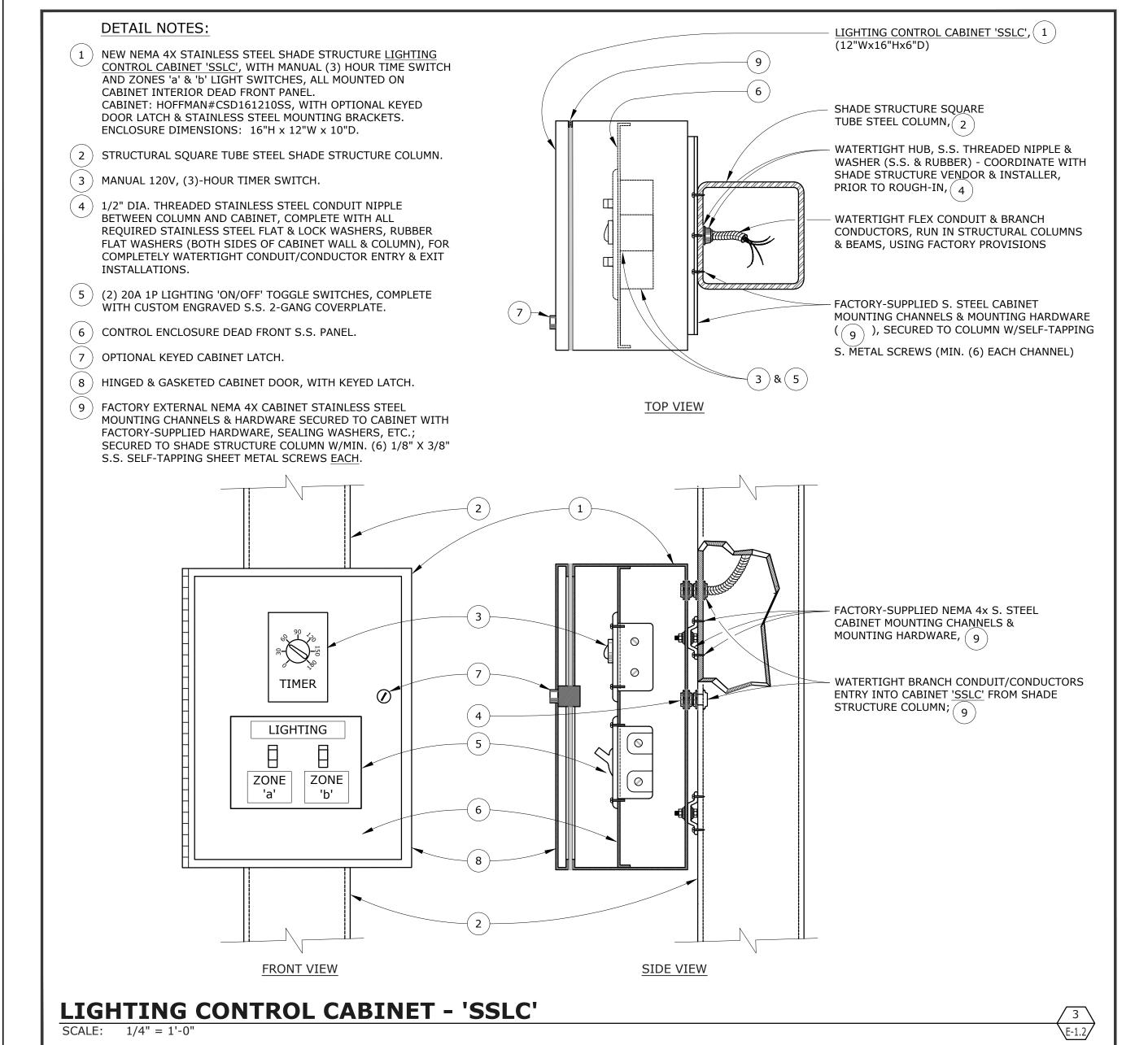
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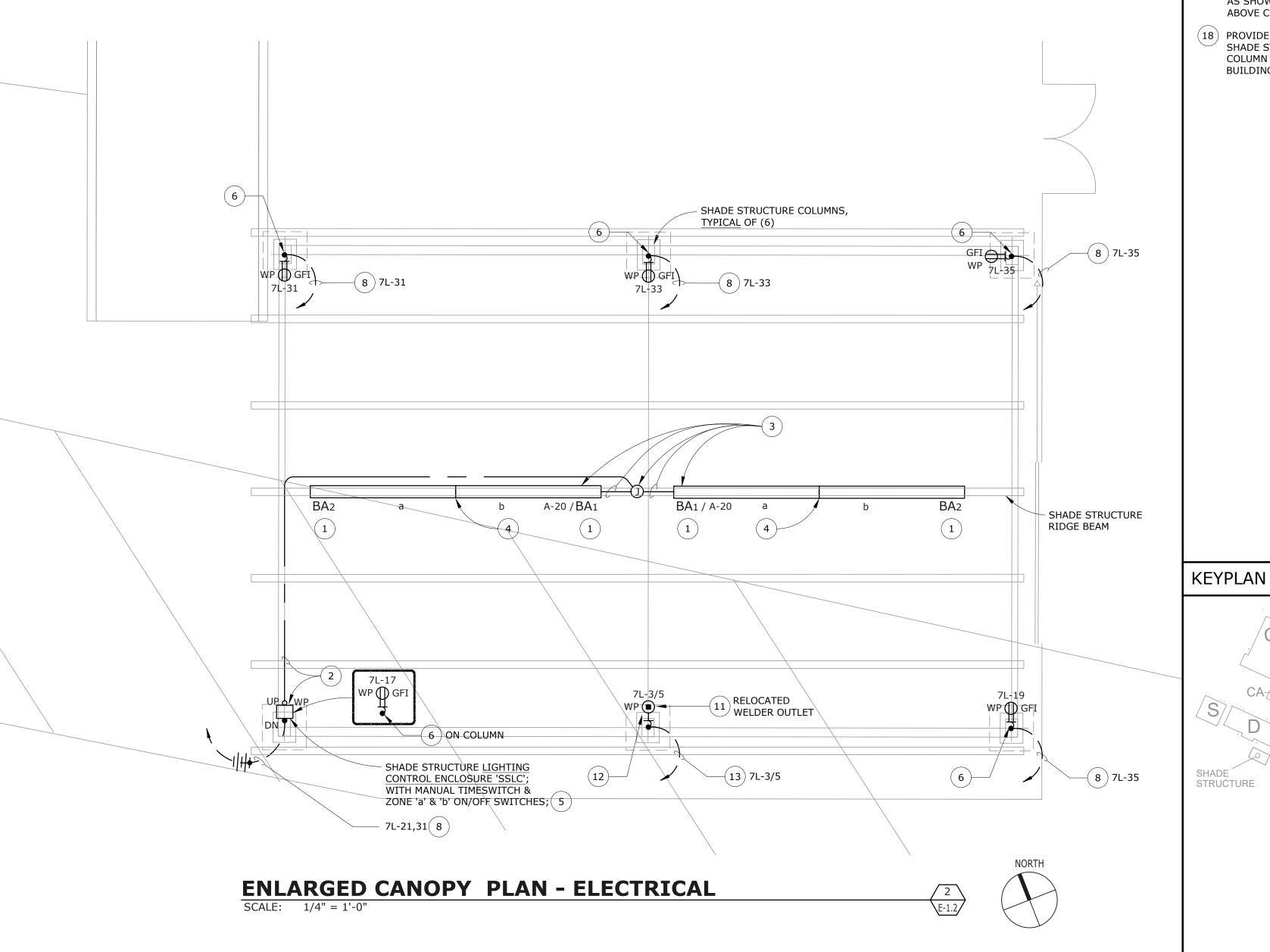
SYMBOLS
LIST,
GENERAL
NOTES & LIST
OF DRAWINGS

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E-0.1





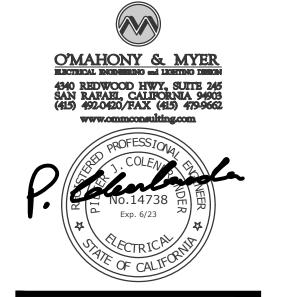


NUMBERED SHEET NOTES

- 1) 'BA'-SERIES UNITS TO BE SECURED TO THE 'RIDGE BEAM' OF THE NEW SHADE STRUCTURE, UTILIZING FACTORY-SUPPLIED OPTIONAL STAINLESS STEEL MOUNTING BRACKETS, SECURED TO STRUCTURAL ROOF BEAM USING MIN. 1/8" DIA. x 3/8" L. SELF-TAPPING S. STEEL SCREWS, AND S. STEEL FACTORY MOUNTING HARDWARE. UTILIZE NEOPRENE FLAT-WASHERS AS REQUIRED FOR WATERTIGHT INSTALLATION.
- COORDINATE INSTALLATION OF U/G RATED PVC COATED 12/3 METAL CLAD CABLE FOR NEW 'B1A/BA2' LUMINAIRE ASSEMBLIES, ROUTED INSIDE SHED STRUCTURE COLUMN, END RAFTER AND RIDGE BEAM, UTILIZING PROVISIONS (HANDHOLES FOR PULLING, ACCESS COVERPLATES, ETC.) PROVIDED BY THE SHED MFGR. FOR THIS PURPOSE. VERIFY EXACT REQUIREMENTS AND COORDINATE WITH SHED STRUCTURE INSTALLER.
- PROVIDE AND INSTALL NEW PROPERLY-CONFIGURED 'FD'-TYPE DIECAST ALUMINUM, GASKETED, WET LOCATION J-BOX, SECURED TO RIDGE BEAM USING PROPERLY SIZED S. STEEL SELF-TAPPING SHEET METAL SCREWS, AND NEOPRENE AND S.S. FLAT- WASHERS. EXTEND THREADED S.S. CONDUIT AND CONDUCTORS TO NEW 'BA'-SERIES LUMINAIRES INDICATED, AND CONNECT COMPLETE, UTILIZING W.P. CONNECTING HUBS SUPPLIED WITH THE LUMINAIRES.
- 4) UTILIZE W.P. HUBS PROVIDED BY THE 'BA'-SERIES LUMINAIRE MANUFACTURER, AND SHORTEST POSSIBLE MATCHING THREADED RIGID STAINLESS STEEL CONDUIT NIPPLES FOR CONNECTIONS BETWEEN THE 'BA1' AND 'BA2' UNITS AS SHOWN.
- SEE SPEC'S AND DETAIL 3/E-1.2. MOUNT ENCLOSURE AT +36" ABOVE FINISHED GRADE TO THE BOTTOM OF THE ENCLOSURE.
- 6 SURFACE MTD. 1-GANG J-BOX (TYPE FD) WITH CORROSION RESISTANT GFCI RECEPTACLE AND WEATHERPROOF COVER. MOUNT OVER SHADE STRUCTURE CUSTOM CUT-OUT AT +/-18" TO CENTER. SEE E-1.2 FOR SHADE STRUCTURE ELECTRICAL ROUTING AND CUT-OUT DETAILS.
- 7 UTILIZE (6) EXISTING SPARE 20A/1P CIRCUIT BREAKERS 17,19,21,31,33, AND 35 IN (E) PANEL FOR (N) CANOPY LIGHTING AND OUTLETS . PROVIDE NEW FULLY TYPED PANEL DIRECTORY TO IDENTIFY NEW AND EXISTING BRANCH CIRCUITS.
- 8 DIRECT BURIAL RATED 12/2 PVC COATED METAL CLAD CABLE FOR EACH CIRCUIT. STUB UP AT BASE OF COLUMN TO DIRECTLY ALIGN AND FALL WITHIN THE 3" BASE PLATE CUT-OUT. SEE E-1.2. DIRECT BURY AT MIN. 24" BELOW GRADE TO CHRISTY BOX AS SHOWN ON 1/E-1.1 AND SPLICE TO THWN CONDUCTORS FOR HOMERUN TO PANEL.
- (9) FLUSH IN-GROUND CHRISTY #N9 OR EQUAL, WITH TRAFFIC RATED H20 STEEL COVER LABELED "ELECTRIC".
- (10) STUB UP AT BASE OF COLUMN. SEE 2/E-1.2
- $\binom{11}{11}$ (E) WELDER OUTLET (NEMA 6-50R). DISCONNECT AND RELOCATE / RECONNECT AT NEW CANOPY STRUCTURE AT SOUTH/CENTER COLUMN. SPLICE AND EXTEND (E) CIRCUIT WITH (2)#6 + (1)#10G IN 3/4" CONDUIT.
- SURFACE MTD. 1-GANG J-BOX (TYPE FD) WITH RELOCATED NEMA 6-50R WELDER RECEPTACLE AND WEATHERPROOF COVER. MOUNT OVER SHADE STRUCTURE CUSTOM CUT-OUT AT +/-18" TO CENTER. SEE E-1.2 FOR SHADE STRUCTURE ELECTRICAL ROUTING AND CUT-OUT DETAILS.
- (13) DIRECT BURIAL RATED 6/2 PVC COATED METAL CLAD CABLE FOR E) EXTENDED WELDER OUTLET CIRCUIT. STUB UP AT BASE OF COLUMN TO DIRECTLY ALIGN AND FALL WITHIN THE 3" BASE PLATE CUT-OUT. SEE E-1.2. DIRECT BURY AT MIN. 24" BELOW GRADE TO CHRISTY BOX AS SHOWN ON 1/E-1.1 AND SPLICE TO THWN CONDUCTORS FOR HOMERUN TO (E) WELDER CIRCUIT
- (14) (2) NEW 3/4" SCHEDULE 40 PVC FOR CANOPY POWER AND LIGHTING CIRCUITS, MINIMUM 24" COVER. PATCH (E) SURFACE TO (N) CONDITION.
- 15) TURN UP AT SIDE OF (E) BUILDING AND TRANSITION TO SURFACE MOUNTED RGS, PAINTED TO MATCH BUILDING EXTERIOR. PENETRATE BUILDING WALL WITH CONDULET ELBOW ABOVE INTERIOR CEILING LEVEL AND SEAL WEATHER-TIGHT.
- (16) EXTEND OVERHEAD INSIDE BUILDING (ABOVE CEILING) TO (E)
- POWER PANEL '7L' WITH (2) 3/4" EMT. (17) PROVIDE (1) 2" CONDUIT FOR FUTURE POWER AT SHADE STRUCTURE. STUB UP ADJACENT TO SHADE STRUCTURE COLUMN AS SHOWN AND CAP. HOMERUN CONDUIT INSIDE BUILDING
- ABOVE CEILING AND STUB ADJACENT TO (E) POWER PANEL '7L'. (18) PROVIDE (1) 2" CONDUIT FOR FUTURE SIGNAL CABLING AT SHADE STRUCTURE. STUB UP ADJACENT TO SHADE STRUCTURE COLUMN AS SHOWN AND CAP. HOMERUN CONDUIT INSIDE BUILDING ABOVE CEILING AND STUB ADJACENT TO (E) IDF.

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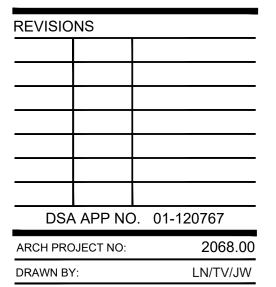


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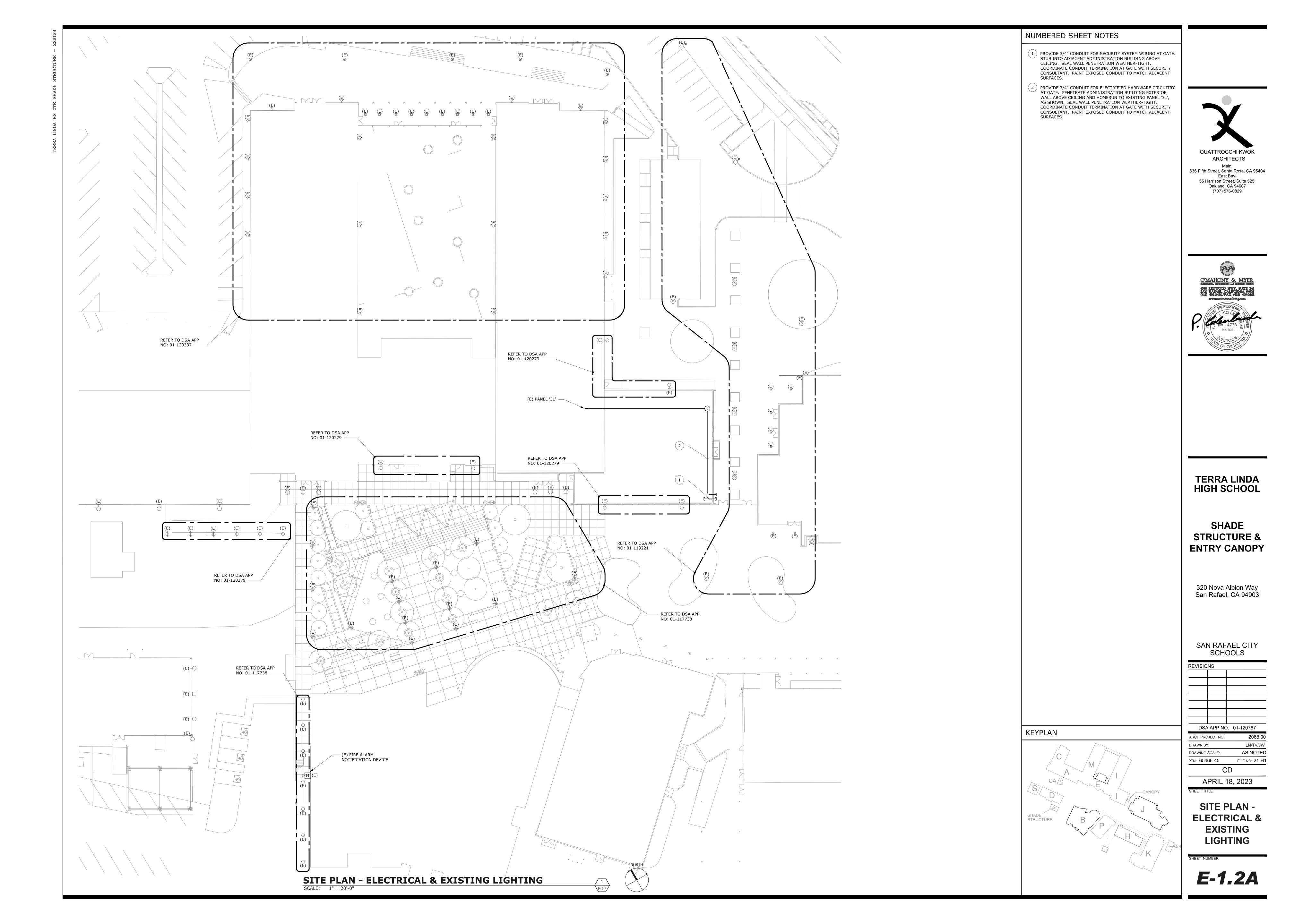


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SITE PLAN -**ELECTRICAL**

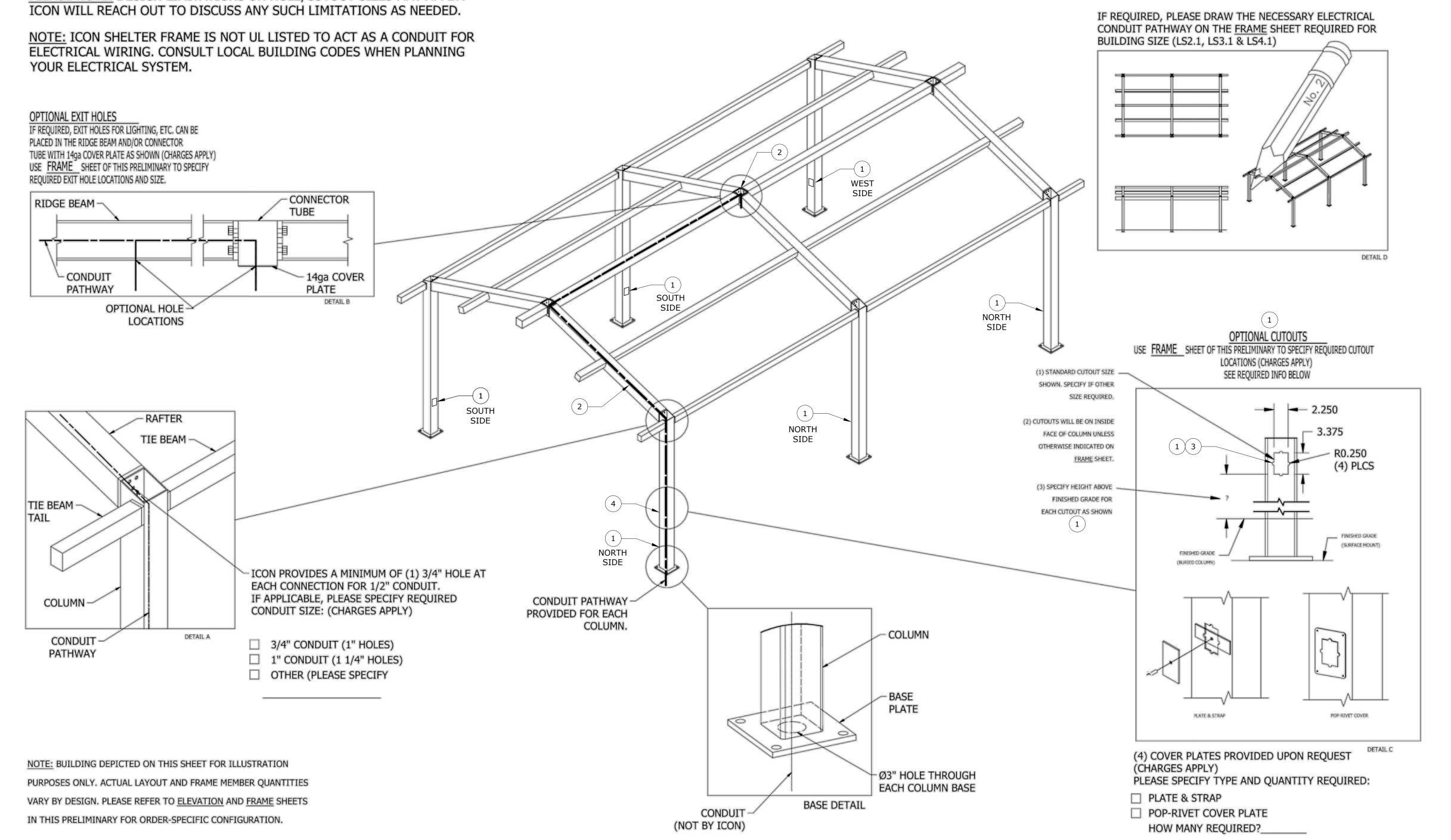
E-1.2



ELECTRICAL INFORMATION - RECTANGULAR GABLE

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL <u>BOLTED</u> CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY.



NUMBERED SHEET NOTES

1. CONDUIT HOLE SIZE (DETAIL A)

2. ELECTRICAL EXIT HOLES (DETAIL B)

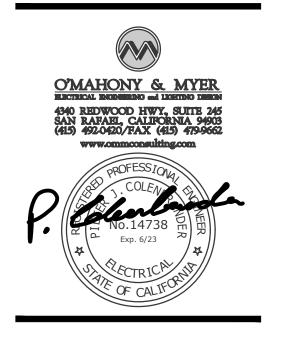
3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)

4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

- (1) COORDINATE WITH CANOPY MANUFACTURER FOR PROVISION OF AN ELECTRICAL OPENING AT EACH OF (6) SURFACE MOUNTED GFCI RECEPTACLES AT COLUMNS. LOCATE EACH RECEPTACLE OPENING AT +18" A.F.G. TO CENTER.
- 2 COORDINATE WITH CANOPY MANUFACTURER FOR PROVISION OF ELECTRICAL PATHWAYS AND OPENINGS AS SHOWN TO REACH THE GABLE PEAK AT CENTER. FEED NEW LIGHTING FROM CENTER AS SHOWN ON 2/E-1.2.
- MOUNT SURFACE MOUNTED FD RECEPTACLE BOX OVER ELECTRICAL CUT-OUT AT EACH COLUMN. ENTER BOX AT REAR WITH 12/2 DB RATED, PVC COATED, MC CABLE.
- 4 COORDINATE WITH CANOPY MANUFACTURER FOR PROVISION OF AN ELECTRICAL OPENING AT THE SURFACE MOUNTED LIGHTING CONTROL ENCLOSURE ON THIS COLUMN. LOCATE OPENING AT +40" A.F.G. TO CENTER.



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APRIL 18, 2023

HEET TITLE

SHADE STRUCTURE ELECTRICAL PROVISIONS

IEET NUMBER

E-7.1