TULARE COUNTY LIBRARY

SPRINGVILLE BRANCH
35707 HIGHWAY 190 , SPRINGVILLE , CA 93265

SHEET INDEX

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Architectural Sheets — 29 SHEETS

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Structural Sheets — 12 SHEETS

Mechanical Sheets — 4 SHEETS

Plumbing Sheets — 3 SHEETS

Electrical Sheets — 15 SHEETS

Landscape & Irrigation Sheets — 4 SHEETS

DIRECTORY

Owner

COUNTY OF TULARE CAPITAL PROJECTS
2637 W BURREL AVENUE, SUITE 200
VISALIA, CA 93291
TULARE COUNTY
ATTN: MARK VAN FOSSEN, CAPITAL PROJECTS COORDINATOR III
PHONE: (559) 205-1140 / CELL (559) 936-8609

Architect

AP ARCHITECTS
3434 TRUXTUN AVENUE, SUITE #240
BAKERSFIELD, CA 93301
PHONE: (661) 327-1690
FAX: (661) 327-7204
ATTN: JOSE VARGAS

Structural Engineer

ANACAPA ENGINEERING AND DESIGN, INC.
9100 MING AVENUE, SUITE #101
BAKERSFIELD, CA 93311
PHONE: (661) 332-7087
FAX: (661) 327-7204
ATTN: RAMON SANCHEZ, PE

Mechanical Engineer

BRUMMEL MECHANICAL ENGINEERING, LLP
1403 HIGUERA STREET
SAN LUIS OBISPO, CA 93401
PHONE: (805) 543-6636
ATTN: KEITH BRUMMEL, PE; BRENT MAY, PE

Electrical Engineer

ROSE SING EASTHAM AND ASSOCIATES
131 S. DUNWORTH STREET
VISALIA, CA 93292
PHONE: (559) 733-2671
ATTN: STEVE EASTHAM, PE

Landscape Architect

DAVID BIGLER ASSOCIATES
516 W SHAW AVE SUITE 101
FRESNO, CA 93704
PHONE: (559) 276-9495
ATTN: DAVID BIGLER, LA

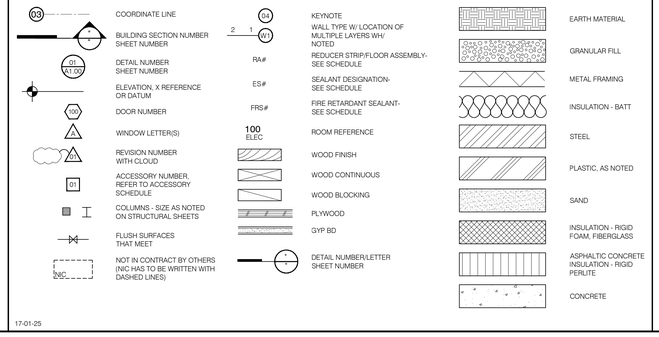
ABBREVIATIONS

AB	ANCHOR BOLT	EJ	EXPANSION JOINT	MC	MEDICINE CABINET	SCHED	SCHEDULE
AC	ASPHALT CONCRETE, AIR CONDITIONING	ELEC	ELECTRIC(AL)	MDO	MEDIUM DENSITY OVERLAY	SD	STORM DRAIN
		ELEV	ELEVATION	MECH	MECHANIC(AL)	SF	SQUARE FOOT/STOREFRONT
ACC	ACCESS CONTROL	EPC	ELECTROSTATIC POWDER COATING	MEP	MECHANICAL, ELECTRICAL, PLUMBING	SFRM	SPRAYED FIRE-RESISTIVE MATERIAL
ACOUS	ACOUSTICAL						
ADJ	ADJACENT	EPS	ELECTROSTATIC PAINTING SYSTEM	MET	METAL	SG	SAFETY GLAZING (FULLY TEMPERED)
AFF	ABOVE FINISH FLOOR			MFR	MANUFACTURER(R)		
AGG	AGGREGATE	EQ	EQUAL	MIN	MINIMUM	SHTG	SHEATHING
ALT	ALTERNATE	EQUIP	EQUIPMENT	MIR	MIRROR	SHT(S)	SHEET(S)
ALUM	ALUMINUM	ES	ELASTOMERIC SEALANT	MISC	MISCELLANEOUS	SIM	SIMILAR
ANOD	ANODIZED	EX/EXIST	EXISTING	MO	MASONRY OPENING	SJ	SEALED JOINT
APPROX	APPROXIMATE	EXH	EXHAUST	MRT	MOLDED RUBBER FLOOR TILE	SJF	SAWN JOINT FILLED
ARCH	ARCHITECT (URAL)	EXT	EXTERIOR	MT	METAL THRESHOLD	SP	SOLID POLYMER
AS	ADJUSTABLE SHELF(S)	EW	EACH WAY	MTD	MOUNTED	SPEC (S)	SPECIFICATION(S)
B	BLANK CABINET PANEL	F, (F)	FUTURE	MTL	MATERIAL	SQ	SQUARE
BD	BOARD	FCO	FLOOR CLEANOUT	N	NORTH	SS	STAINLESS STEEL
BLK	BLOCK	FD	FLOOR DRAIN	NAT	NATURAL	STD(S)	STANDARD(S)
BLDG	BUILDING	FDN	FOUNDATION	NIC	NOT IN CONTRACT	STL	STEEL
BLKG	BLOCKING	FEX	FIRE EXTINGUISHER	NO	NUMBER	STOR	STORAGE
BM	BEAM	FG	FINISH GRADE	NOM	NOMINAL	STRUCT	STRUCTURAL
BOT	BOTTOM	FIN	FINISH(ED)	NTS	NOT TO SCALE	T	TEMPERED
BUR	BUILT UP ROOF(ING)	FLR	FLOOR(ING)	OBS	OBSCURE	T/M/B	TOP/MIDDLE/BOTTOM
CAB	CABINET	FLOUR	FLOURESCENT	OC	ON CENTER(S)	TAC	TOP OF ASPHALT CONCRETE
CEM	CEMENT	FOC	FACE OF CONCRETE	OD	OUTSIDE DIAMETER	TC	TOP OF CONCRETE
CI	CAST IRON	FOF	FACE OF FINISH	OFRD	OVERFLOW ROOF DRAIN	TER	TERRAZZO
CJ	CONTROL JOINT	FOM	FACE OF MASONRY	OH	OVERHEAD	TH	THICK(NESS)
CJF	CONTROL/CONSTRUCTION JOINT FILLED	FOS	FACE OF STUDS	OPNG	OPENING	TOC	TOP OF CONCRETE
		FOIC	FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR	PA	PLANTING AREA	TOS	TOP OF SEAT
CL	CENTERLINE			PFR	POLYURETHANE FOAM	TOW	TOP OF WALL
CLG	CEILING	FOIO	FURNISHED BY OWNER AND INSTALLED BY OWNER	ROOFING		TP	TOP OF PAVING
CLR	CLEAR(ANCE)/COLOR			PJ	POUR JOINT	TV	TELEVISION
CMU	CONCRETE MASONRY UNIT	FRMG	FRAMING	PL	PROPERTY LINE	TW	TOP OF WALK
CNTR	COUNTER	FRS	FIRE RETARDANT SEALANT	PLAM	PLASTIC LAMINATE	TWP	TRANSLUCENT WALL PANEL
CO	CLEAN OUT	FS	FIXED SHELF	PLAS LAM	PLASTIC LAMINATE	TYP	TYPICAL
COB	CITY OF BAKERSFIELD	FTG	FOOTING	PLAS	PLASTER	UCMT	UNGLAZED CERAMIC MOSAIC
COC	CITY OF COALINGA	FURR	FURRED (ING)	PLBG	PLUMBING	TILE	
COL	COLUMN	FV	FIELD VERIFY	PRC	POLYURETHANE ROOF COATING	UG	UNDERGROUND
CONC	CONCRETE	GA	GAGE, GAUGE			UNO	UNLESS NOTED OTHERWISE
CONN	CONNECTION	GI	GALVINIZED IRON	P.O.T.	PATH OF TRAVEL	URI	URINAL
CONT	CONTINUOUS OR CONTINUE	GL	GLASS, GLAZING	PSF	POUNDS PER SQUARE FOOT	VCT	VINYL COMPOSITION FLOOR TILE
COP	CONTROL OPERATIONS PANEL	GS	GLAZING SIDE	PSI	POUNDS PER SQUARE INCH	VCTB	VINYL COVERED TACKBOARD
CPT	CARPET(ED)	GWT	GLAZED WALL TILE	PT	PRESSURE TREATED	VER	VERIFY
CR	CARD READER	GYP	GYPSUM	PVMT	PAVEMENT	VERT	VERTICAL
CSVB	COVED SHEET VINYL BASE	HB	KNEE BIBB	PWD	PLYWOOD	VTS	VINYL TACK SURFACE
CTSK	COUNTER SINK	HC	HOLLOW CORE	RA	RETURN AIR, RUBBER ACCESSORY	VWC	VINYL WALL COVERING
CU	CONDENSER UNIT	HD	HEAVY DUTY			W	WEST
d	PENNY (NAILS)	HDR	HEADER	RASF	RUBBERIZED ASPHALT SHEET FLASHING	W/	WITH
D	DRAWER	HDBD	HARDBOARD			WC	WATER CLOSET
DBL	DOUBLE	HDWD	HARDWOOD	RASWD	RUBBER ASPHALT SHEET WATER PROOFING	WD	WOOD
DEMO	DEMOLITION	HDWR	HARDWARE			WH/	WHERE
DET	DETAIL	HM	HOLLOW METAL	RAD	RADIUS	WI	WROUGHT IRON
DF	DRINKING FOUNTAIN	HORIZ	HORIZONTAL	RD	ROOF DRAIN	W/O	WITHOUT
DG	DECOMPOSED GRANITE	HT	HEIGHT	REF	REFRIGERATOR	WP	WATERPROOFING
DIA	DIAMETER	HVAC	HEATING/VENTILATING/ AIR CONDITIONING	REFL	REFLECTED	WRB	WEATHER RESISTIVE BARRIER
DIM	DIMENSION			REG	REGISTER	WT	WEIGHT
DIS	DISABLED	ID	INSIDE DIAMETER	REQ(S)	REQUIREMENT(S)	WWF	WELDED WIRE FABRIC
DL	DEAD LOAD	INFO	INFORMATION	REQ'D	REQUIRED	XFMR	TRANSFORMER
DN	DOWN	INSUL	INSULATE (D), (ION)	REV	REVISION(S), REVISED		
DS	DOWN SPOUT	INT	INTERIOR	RM	ROOM		
DTL	DETAIL	JST	JOIST	RO	ROUGH OPENING		
DTR	DUCT THRU ROOF	JT(S)	JOINTS	ROW	RIGHT OF WAY		
DWG(S)	DRAWING(S)	K	KICKER	RR	ROOF RAFTER		
E	EAST	KS	KNEE SPACE	RS	REDUCER STRIP		
EA	EACH	LAV	LAVATORY	RSTA	RUBBER STAIR TREAD ACCESSORY		
EDF	ELECTRIC DRINKING FOUNTAIN	LL	LIVE LOAD				
EF	EXHAUST FAN	LT	LIGHT	RWB	RUBBER WALL BASE		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MAX	MAXIMUM	S	SOUTH		
		MB	MACHINE BOLT	SC	SOLID CORE		

OVERALL SITE PLAN

1/32" = 1'-0"

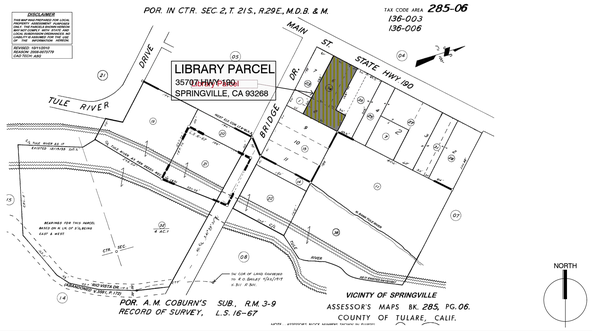
SYMBOLS



17-01-25

VICINITY MAP

NTS



SCOPE OF WORK

NEW LIBRARY BUILDING AND ASSOCIATED SITEWORK.

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA, 93301
www.aparchitects.net

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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK No. C-19670 11-30-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.01.23

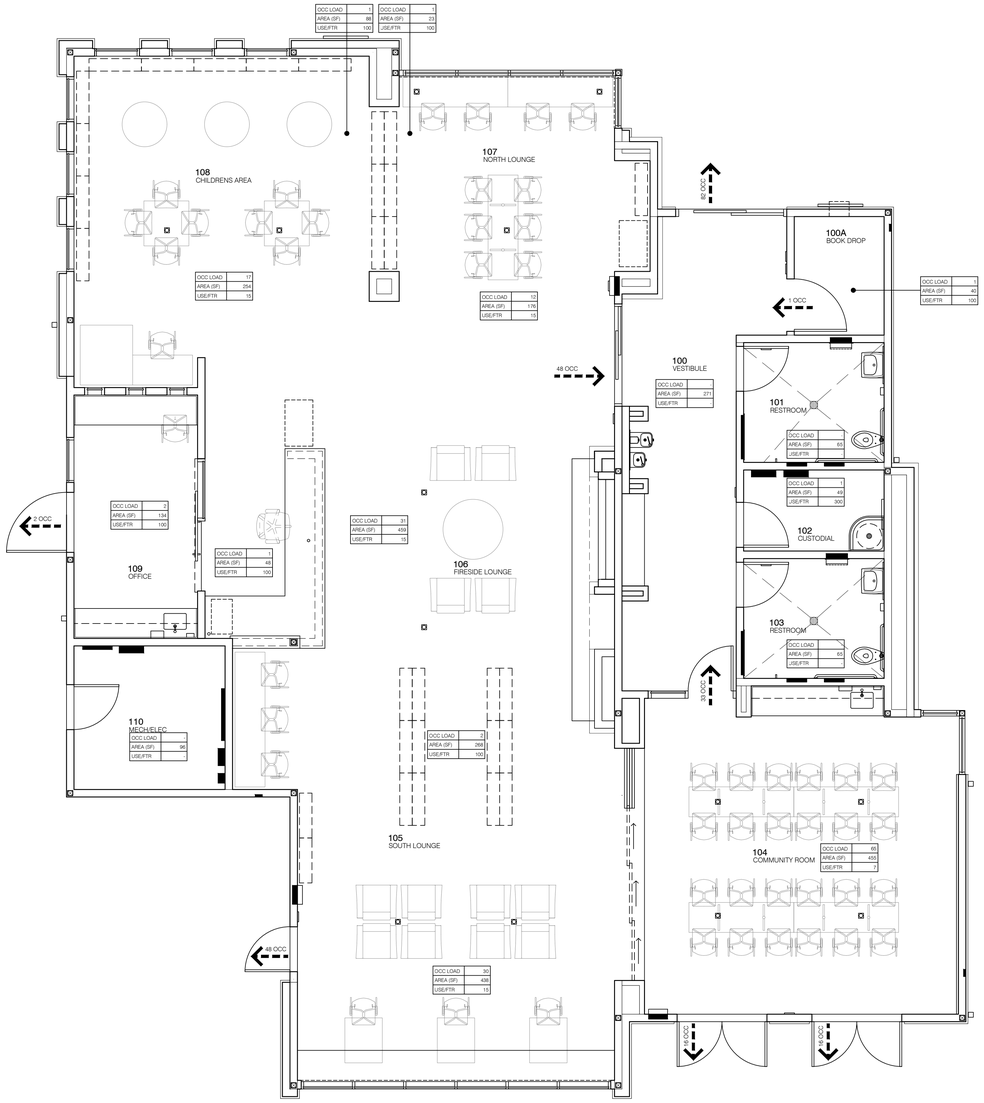
REVISIONS

No	Date	Item

01.30.24 10:25

TITLE SHEET

A0.00



Exit Analysis Plan

Scale: 1/4" = 1'-0"

WORKING NORTH

BUILDING ANALYSIS

TYPE OF CONSTRUCTION:	TYPE V-B (NR)
OCCUPANCY CLASSIFICATION/USE:	A-3
OCCUPANT LOAD:	(SEE OCCUPANT LOAD ANALYSIS)
ALLOWABLE BUILDING HEIGHT:	+40'-0"
BUILDING HEIGHT:	+22'-0"
ALLOWABLE NUMBER OF STORIES:	ONE
NUMBER OF STORIES:	ONE
ALLOWABLE AREA:	6,000 SF (PER TABLE 506.2)
BUILDING FLOOR AREA:	3,200 SF
AUTOMATIC SPRINKLERS:	NOT REQUIRED
STAND PIPE:	NOT REQUIRED
AUTOMATIC FIRE ALARM:	NO (PER 903.2.1.3)
SEISMIC ZONE NUMBER:	4
WIND LOAD:	70 MPH - EXPOSURE C

ALLOWABLE AREA ANALYSIS

BASIC ALLOWABLE: 6,000 SF (TABLE 506.2)
A-3/V-B

3,200 SF < 6,000 SF
NO INCREASE WAS TAKEN FOR FRONTAGE

OCCUPANT LOAD ANALYSIS

ROOM NAME	USE/FACTOR	SF	OCC
100 VESTIBULE	N/A	271	N/A
101 RESTROOM	N/A	65	N/A
102 CUSTODIAL	STORAGE/300 GROSS	49	1
103 RESTROOM	N/A	65	N/A
104 COMMUNITY ROOM	UNCONC. ASSEMBLY/15 NET	455	65
105 SOUTH LOUNGE	UNCONC. ASSEMBLY/15 NET	438	30
	STACK AREA/100 GROSS	268	2
106 FIRESIDE LOUNGE	UNCONC. ASSEMBLY/15 NET	459	31
107 NORTH LOUNGE	UNCONC. ASSEMBLY/15 NET	176	12
	STACK AREA/100 GROSS	23	1
108 CHILDRENS AREA	UNCONC. ASSEMBLY/15 NET	254	17
	STACK AREA/100 GROSS	88	1
109 CIRCULATION	BUSINESS AREA/100 GROSS	48	1
111 OFFICE	BUSINESS AREA/100 GROSS	134	2
112 MECH/ELEC	N/A	96	N/A
113 BOOK DROP	N/A	40	1
TOTAL		2,929	130

APPLICABLE CODES

Title 19, CCR

CCR	PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

Title 24, CCR

PART 1	2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
PART 2	2022 CALIFORNIA BUILDING CODE
PART 3	2022 CALIFORNIA ELECTRICAL CODE
PART 4	2022 CALIFORNIA MECHANICAL CODE
PART 5	2022 CALIFORNIA PLUMBING CODE
PART 6	2022 CALIFORNIA ENERGY CODE
PART 9	2022 CALIFORNIA FIRE CODE
PART 10	2022 CALIFORNIA EXISTING BUILDING CODE
PART 11	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
PART 12	2022 CALIFORNIA REFERENCED STANDARDS CODE

FIRE RESISTIVE REQUIREMENTS

Type V-B

BUILDING ELEMENT	FIRE-RESISTANCE RATING	REMARKS
PRIMARY STRUCTURAL FRAME	0	TABLE 601
BEARING WALLS-EXT	0	TABLE 601
BEARING WALLS-INT	0	TABLE 601
NONBEARING WALLS-EXT	0	TABLE 602
NONBEARING WALLS-INT	0	TABLE 601
SHAFT ENCLOSURE	N/A	SEC 713
FLOOR CONSTRUCTION	0	TABLE 601
ROOF CONSTRUCTION	0	TABLE 601
EXT DOORS AND WINDOWS U/NPROTECTED/NP (10≤15') U/NPROTECTED/NP (>30'+)	15% NO LIMIT	TABLE 705.8
STAIRWAY CONSTRUCTION	N/A	SEC 1020.1
MINIMUM ROOF CLASS	C	TABLE 1505.1

17-01-01

ap architects
3434 Truxtun Avenue, #240
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CONSULTANT

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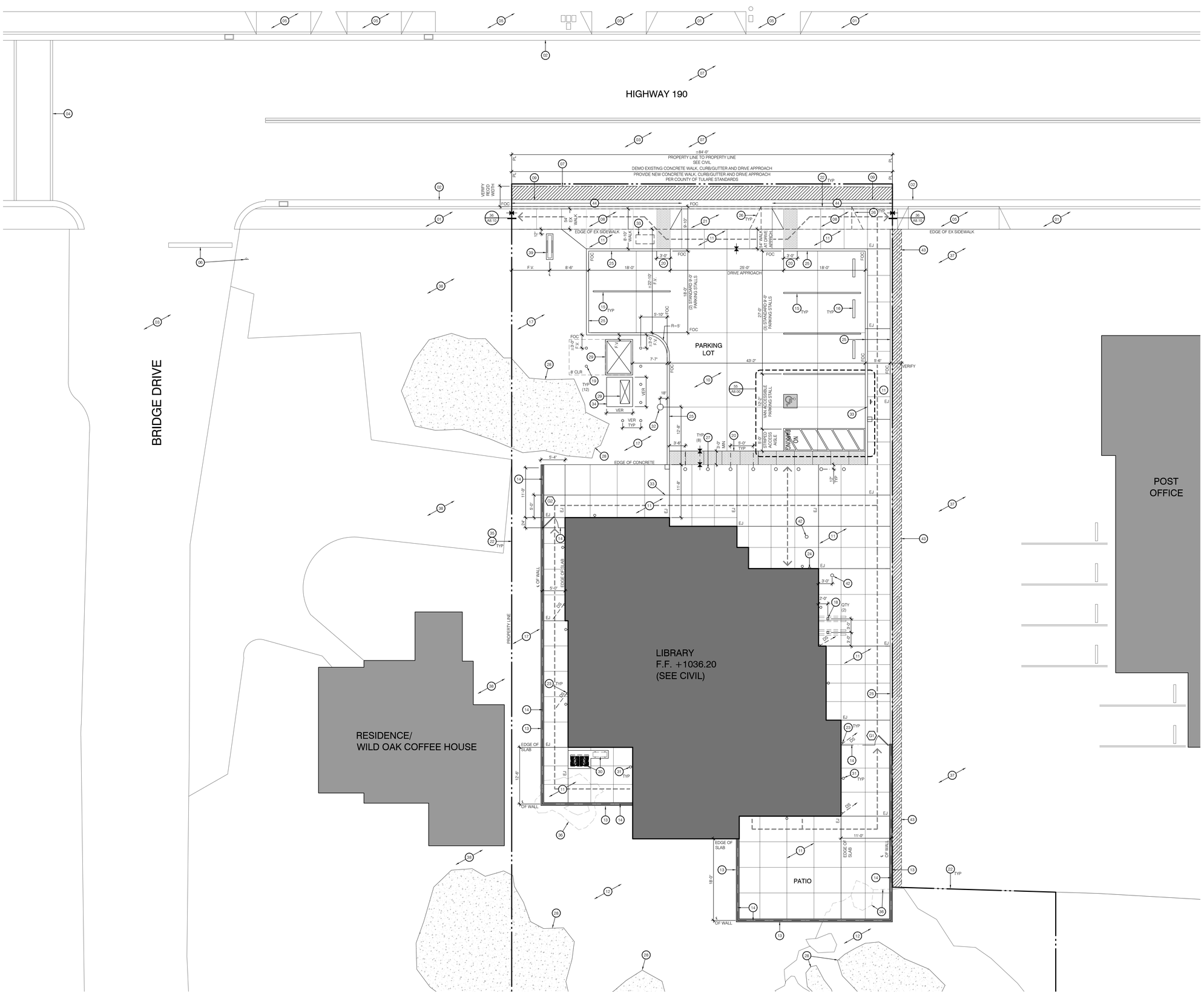
REVISIONS

No	Date	Item

10.30.23 13:30

BUILDING ANALYSIS/
EXIT ANALYSIS PLAN

A0.10



Site Plan

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

SITE PLAN KEYNOTES

01 EXISTING CONCRETE SIDEWALK TO REMAIN
02 EXISTING CURB/GUTTER TO REMAIN
03 EXISTING ASPHALT ROADWAY TO REMAIN
04 EXISTING PEDESTRIAN CROSSWALK TO REMAIN
05 EXISTING NEIGHBORING DRIVE APPROACH TO REMAIN
06 EXISTING STOP SIGN/ROAD MARKING TO REMAIN
07 PATCH ASPHALT PAVING AS REQUIRED TO PERFORM UTILITY/SITE WORK. REPAIR TRAFFIC MARKS AS REQUIRED PER CALTRANS REQUIREMENTS. SEE CIVIL/ELECTRICAL SHEETS FOR MORE INFORMATION
08 REMOVE AND REPLACE CONCRETE SIDEWALK, SEE CIVIL SHEETS FOR MORE INFORMATION — 15 A/B.1C
09 REMOVE AND REPLACE CURB/GUTTER AS REQUIRED TO PERFORM WORK PER COUNTY OF TULARE STANDARDS, SEE CIVIL
10 6" THICK CONCRETE PAVING — 15 A/B.1C
11 4" THICK CONCRETE WALK — 11 A/B.1C
12 NATIVE SOIL
13 CONCRETE RETAINING WALL, SEE STRUCTURAL FOR MORE INFORMATION
14 TUBE STEEL FENCE/GATE — 51 A/B.3T; 53 A/B.3T
15 PARKING STALL STRIPING — 12 A/B.1C
16 CONCRETE PARKING STALL WHEELSTOP — 11 A/B.1C
17 LANDSCAPE AREA, SEE LANDSCAPE AND IRRIGATION SHEETS FOR MORE INFORMATION
18 BIKE RACK, SEE SPECIFICATIONS
19 GUARD POSTS, VERIFY LOCATION/SPACING REQUIREMENTS WITH SCE. SEE ELECTRICAL SHEETS FOR MORE INFORMATION
20 DETECTABLE WARNING SURFACE, WET SET — 54 A/B.0C
21 CONCRETE DRIVE APPROACH, SEE CIVIL SHEETS FOR MORE INFORMATION
22 PROPERTY LINE, SEE CIVIL
23 DOWNSPOUT, TYPICAL - SEE PLANS FOR MORE INFORMATION
24 COUNTY KNOX BOX, SEE COUNTY FOR REQUIREMENTS
25 6" CONCRETE CURB — 25 A/B.1C
26 LINE OF EXISTING WALK/DRIVE APPROACH DEMOLISHED
27 BOLLARD (WITH LIGHT WHERE OCCURS), SEE ELECTRICAL SHEETS FOR MORE INFORMATION
28 APPROXIMATE LOCATION OF EXISTING BOULDER TO REMAIN, VERIFY EXTENT OF BOULDER AREA PRIOR TO EXCAVATION
29 ELECTRICAL EQUIPMENT/PAD, SEE ELECTRICAL SHEETS FOR MORE INFORMATION
30 MECHANICAL EQUIPMENT, SEE MECHANICAL SHEETS FOR MORE INFORMATION. VERIFY FINAL LOCATION WITH ARCHITECT. DO NOT IMPEDE INTO EXITING PATH OF TRAVEL.
31 WALL MOUNTED LIGHT FIXTURE, SEE EXTERIOR ELEVATIONS/ELECTRICAL SHEETS FOR MORE INFORMATION
32 POLE LIGHT, SEE ELECTRICAL SHEETS FOR MORE INFORMATION
33 ELECTRICAL PULLBOX, SEE ELECTRICAL SHEETS FOR MORE INFORMATION
34 CONCRETE PAD AT ELECTRICAL EQUIPMENT, SEE ELECTRICAL SHEETS FOR MORE INFORMATION
35 EXISTING FENCE TO REMAIN
36 APPROXIMATE LOCATION OF EXISTING BOULDER TO BE DEMOLISHED TO PERFORM NEW WORK
37 EXISTING AC PAVING PARKING LOT, DO NOT BLOCK TRAFFIC TO PERFORM NEW WORK
38 ADJACENT NEIGHBORING PROPERTY, DO NOT DISTURB
39 MONUMENT SIGN, SEE ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION — 35 A/B.1C
40 NOT USED
41 6' CONCRETE EQUIPMENT PAD, SEE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION
42 COTG/VALVE BOX IN CONCRETE, SEE PLUMBING/CIVIL SHEETS FOR MORE INFORMATION
43 AC PAVING PATCH AT NEW CONCRETE CURB, VERIFY AREA NEEDED TO PERFORM WORK. PATCH WORK SHALL NOT IMPEDE TRAFFIC EGRESS AT POST OFFICE DRIVE APPROACH/PARKING LOT — 45 A/B.1C
44 PAINT CURB RED, TOP AND FACE. PAINT 'NO PARKING' ON FACE OF CURB IN WHITE, EVERY 20'-0" O.C. PER CALTRANS STANDARDS

ACCESSIBLE PATH OF TRAVEL (P.O.T.)

"ACCESSIBLE PATH OF TRAVEL" (P.O.T.) AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. POT IS A MINIMUM OF 48" WIDE SLIP RESISTANT SURFACE WITH 5% MAX SLOPE AND 2% MAX CROSS SLOPE, TYP. THERE IS NO DROP-OFF OVER 4' AT THE EDGE OF WALK OR LANDING.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT

17-04-03

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA. 93301
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SITE PLAN

A1.10

INTERIOR FINISH SCHEDULE

SEE REFLECTED CEILING PLAN FOR CEILING TYPE/FINISH

Floor		Base		Walls		Finish	
1 CARPET	4 12x12 VCT	1 4" RWB		1 GYP BD	4 VTS OVER 5/8" GYP BD (22/A8.00)	7 FRP OVER 5/8" GYP BD (23/A8.00)	A PAINT-EGGSHELL
2 UCMT-1 (55/A8.31)		2 4" COVED GWT-1/ SCHLUTER (55/A8.31)		2 GWT-1 (55/A8.31)	5 3/4" AC PWD OVER 5/8" GYP BD (BEVELED EDGES) (43/A8.00)		B PAINT-SEMI GLOSS
3 LVT		3		3 ADHERED STONE VENEER (55/A8.50)	6 WALLTALKER SYSTEM		C FACTORY

No	Room	FLOOR MTL	FLOOR FIN	BASE MTL	BASE FIN	WALLS NORTH MTL	WALLS NORTH FIN	WALLS EAST MTL	WALLS EAST FIN	WALLS SOUTH MTL	WALLS SOUTH FIN	WALLS WEST MTL	WALLS WEST FIN	WAINS MTL	WAINS FIN	JAMB/ TRIM FIN	Remarks
Springville Library																	
100	ENTRY VESTIBULE	3	C	1	C	1/3	A/C	1	A	1	A	1/4	A/C	-	-	B	*
100A	BOOK DROP	3	C	1	C	1	A	1	A	1	A	1	A	-	-	B	*
101	RESTROOM	2	C	2	C	1/2	B/C	1/2	B/C	1/2	B/C	1/2	B/C	-	-	B	*
102	CUSTODIAL	2	C	2	C	7	C	7	C	7	C	7	C	-	-	B	DEPRESSED SLAB - SEE STRUCTURAL SHTS
103	RESTROOM	2	C	2	C	1/2	B/C	1/2	B/C	1/2	B/C	1/2	B/C	-	-	B	DEPRESSED SLAB - SEE STRUCTURAL SHTS
104	COMMUNITY ROOM	3	C	1	C	1/2	A/C	6	C	1	A	1	A	-	-	B	DEPRESSED SLAB - SEE STRUCTURAL SHTS
105	SOUTH LOUNGE	1	C	1	C	1	A	1	A	1	A	1/4	A/C	-	-	B	*
106	FIRESIDE LOUNGE	1	C	1	C	1	A	1/3	A/C	1	A	1	A	-	-	B	*
107	NORTH LOUNGE	1	C	1	C	1	A	1	A	1	A	1	A	-	-	B	*
108	CHILDRENS AREA	1	C	1	C	1	A	1	A	1/4	A/C	1	A	-	-	B	*
109	OFFICE	3	C	1	C	1/2	A/C	1	A	1	A	1	A	-	-	B	*
110	MECH/ELEC	4	C	1	C	5	B	5	B	5	B	5	B	-	-	B	*

General Interior Finish Notes

1. SEE WALL LEGEND AND DETAILS FOR MULTIPLE LAYERS OF FINISH.

ACCESSORY SCHEDULE

Typical Details

53/A8.00 TYPICAL BACKING AT SURFACE MTD ACCESSORY
54/A8.00 TYPICAL RECESSED ACCESSORY FRAMING
44/A8.00 TYPICAL ACCESSORY MOUNTING HEIGHTS
14/A8.00 TYPICAL DOOR SIGN INSTALLATION

No	Mfr/Model No	Description	Mtg Ht	Dtls
01	"BOBRICK" NO B-6806 SERIES(PEENED)	PEENED GRAB BAR SET W/ CONCEALED MOUNTING (SIDE 48", REAR 36")	SEE DET	36/A8.00, 53/A8.00, 54/A8.00
02	"BOBRICK" NO B-3094	RECESSED TOILET PAPER/SANITARY NAPKIN DISPOSAL	SEE DET	44/A8.00, 54/A8.00
03	"BOBRICK" NO B-301	RECESSED TOILET SEAT COVER DISPENSER	SEE DET	44/A8.00, 54/A8.00
04	"KOALA KARE" KB310-SSWM	HORIZONTAL STAINLESS STEEL RECESSED BABY CHANGING STATION	SEE DET	44/A8.00, 54/A8.00
09	"BOBRICK" 290 SERIES	MIRROR W/ STAINLESS STEEL FRAME (CUSTOM SIZE)	SEE INT ELEV	44/A8.00, 54/A8.00
10	"BOBRICK" NO B-3974	SEMI-RECESSED AUTOMATIC UNIVERSAL PAPER TOWEL DISPENSER/WASTE RECEPTACLE	SEE DET	44/A8.00, 54/A8.00
13	"BOBRICK" NO B-224 x 36" MIN	SHELF W/ MOP, BROOM HOLDERS AND RAG HOOKS	SEE DET	53/A8.00, 54/A8.00
15	"BOBRICK" NO B-682	HOOK +4'-0" AFF AT ACCESSIBLE STALL +5'-0" AFF AT NON ACCESSIBLE STALLS	AS NOTED	
18	BOBRICK B-2013	AUTOMATIC SURFACE MTD SOAP DISPENSER	SEE DET	44/A8.00, 53/A8.00, 54/A8.00
19	BOBRICK B-29744	SEMI-RECESSED AUTOMATIC UNIVERSAL PAPER TOWEL DISPENSER	SEE DET	44/A8.00, 54/A8.00
27	"GEMINI"/"MATTHEWS"	METAL LETTERS (SEE PLANS FOR VERBIAGE)	SEE ELEV	24/A8.00, 31/A8.00
28	SEE DETAILS	TOILET IDENTIFICATION SIGNS	SEE DET	16/A8.60
30	SEE DETAILS	ROOM SIGN	SEE DET	26/A8.60
36	SEE DETAILS	MAX OCCUPANT SIGN	SEE DET	13/A8.60
38	SEE DETAILS	INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN AT BUILDING ENTRY (DECAL)	SEE ELEV	36/A8.00
50	SEE PROJECT MANUAL/DETAILS	"WALLTALKER" VISUAL DISPLAY BOARD - SIZE AS NOTED ON INT. - SEE INTERIORS FOR SEAMS	SEE INT ELEV	
61	SEE PROJECT MANUAL	FIRE EXTINGUISHER IN RECESSED CABINET (4-A:80-B:C/10#)	SEE DET	37/A8.60, 54/A8.00
63	SEE PROJECT MANUAL	CUSTOM WINDOW SHADES/ BLINDS - STYLE TO BE COORDINATED WITH WINDOW FRAME	NA	
79	SEE PROJECT MANUAL	2" ROUND GROMMET	NA	
89	SEE DETAILS	"EMERGENCY EXIT ONLY- ALARM WILL SOUND" SIGN	SEE DET	36/A8.60
91	SEE DETAILS	"EXIT" SIGN	SEE DET	35/A8.60

DOOR SCHEDULE

TYPICAL DETAILS

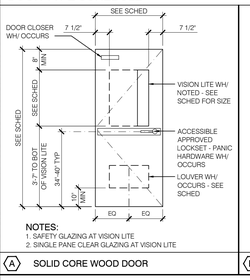
43/A8.50 TYPICAL HM INTERIOR DOOR JAMB OFFSET
41/A8.50 HM FRAME CLIP
56/A8.50 SF FRAME CONNECTION

NO	Door SIZE	TH	MTL	TYPE	FRAME	FIRE RATING	Details HEAD	Details JAMB	Details SILL	HDWR NO	PANIC HDWR	Remarks
01	PAIR SLIDING 7'-0"x8'-0"	1 3/4"	ALUM	C	ALUM	-	51/A8.50	51/A8.50		01	-	SINGLE SLIDE AUTOMATIC SLIDING DOOR, ADA ACTUATOR, INSTALL PER MFR. DETAILS
02	3'-6"x8'-0"	1 3/4"	WD	A	HM	-	31/A8.50	31/A8.50	31/A8.50	02	-	-
03	3'-0"x8'-0"	1 3/4"	WD	A	HM	-	31/A8.50	11/A8.50	31/A8.50	03	-	-
04	3'-0"x8'-0"	1 3/4"	WD	A	HM	-	31/A8.50	11/A8.50	31/A8.50	04	-	-
05	3'-0"x8'-0"	1 3/4"	WD	A	HM	-	31/A8.50	11/A8.50	31/A8.50	03	-	-
06	3'-0"x8'-0"	1 3/4"	ALUM	B	ALUM	-	33/A8.50	12/A8.50	33/A8.50	05	-	-
07	PAIR SLIDING 7'-0"x8'-0"	1 3/4"	ALUM	C	ALUM	-	33/A8.50	12/A8.50		01	-	SINGLE SLIDE AUTOMATIC SLIDING DOOR, ADA ACTUATOR, INSTALL PER MFR. DETAILS
08	SPECIAL OPERATION 16'-0"x8'-0"	-	MFR	D	MFR	-	53/A8.60			-	-	SPECIALTY FOLDING PARTITION DOOR SYSTEM, INSTALL PER MFR. DETAILS
09	4'-0"x8'-0"	1 3/4"	HM	E	HM	-	54/A8.50	54/A8.50		10	-	-
10	SPECIAL OPERATION 4'-0"x7'-2"	-	MFR	F	MFR	-	33/A8.50	12/A8.50		-	-	DOOR LEAF 4'0"X7'-2", OVERALL SYSTEM 8'-10"X7'-2", INSTALL PER MFR. DETAILS
11	3'-0"x8'-0"	1 3/4"	HM	E	HM	-	54/A8.50	54/A8.50		07	-	-
12	3'-0"x8'-0"	1 3/4"	HM	E	HM	-	54/A8.50	54/A8.50		08	Y	-
13	PAIR 3'-0"x8'-0"	1 3/4"	ALUM	B	ALUM	-	51/A8.50	51/A8.50		09	Y	-
14	PAIR 3'-0"x8'-0"	1 3/4"	ALUM	B	ALUM	-	51/A8.50	51/A8.50		09	Y	-

General Door Notes

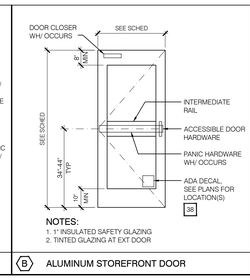
1. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT
2. RATED DOORS TO BE POSITIVE LATCHING WITH SMOKE AND DRAFT STOP ASSEMBLIES.
3. MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE FOR ALL RATED DOOR ASSEMBLIES AND RELATED HARDWARE.
4. MAXIMUM EFFORT TO OPERATE FIRE DOORS SHALL NOT EXCEED 15 LBS WHEN APPROVED BY ADMINISTRATIVE AUTHORITY.
5. MAXIMUM EFFORT TO OPERATE NON-RATED DOORS SHALL NOT EXCEED 5 LBS FOR EXTERIOR AND 5 LBS FOR INTERIOR DOORS.
6. DOOR SIZES INDICATED ARE NOMINAL DIMENSIONS.
7. REFER TO HARDWARE SPECIFICATIONS FOR COORDINATION OF HARDWARE INDICATED.
8. GLASS IN RATED ASSEMBLIES SHALL BE LABELED FOR SUCH.
9. MOUNTING HTS OF ACCESSIBLE APPROVED LOCKSETS, PANIC DEVICES AND OTHER DOOR OPERATION HARDWARE SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.

DOOR TYPE SCHEDULE



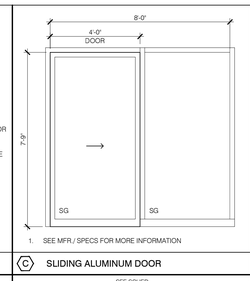
NOTES:
1. SAFETY GLAZING AT VISION LITE
2. SINGLE PANE CLEAR GLAZING AT VISION LITE

A SOLID CORE WOOD DOOR



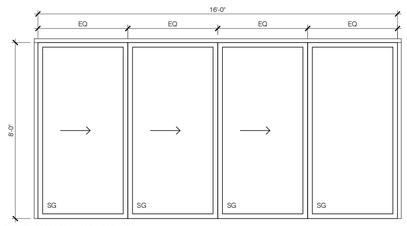
NOTES:
1. 1" INSULATED SAFETY GLAZING
2. TINTED GLAZING AT EXT DOOR

B ALUMINUM STOREFRONT DOOR



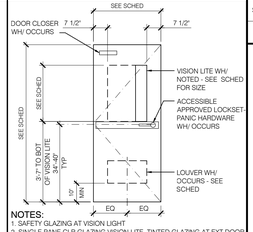
1. SEE MFR./ SPECS FOR MORE INFORMATION

C SLIDING ALUMINUM DOOR



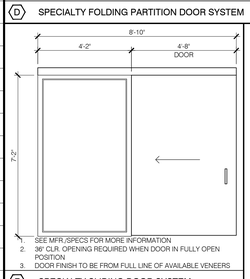
1. SEE MFR./SPECS FOR MORE INFORMATION

D SPECIALTY FOLDING PARTITION DOOR SYSTEM



NOTES:
1. SAFETY GLAZING AT VISION LIGHT
2. SINGLE PANE CLR GLAZING VISION LITE. TINTED GLAZING AT EXT DOOR
3. EXTERIOR DOORS TO BE 16 GA, INTERIOR DOORS TO BE 18 GA

E HOLLOW METAL DOOR



1. SEE MFR./SPECS FOR MORE INFORMATION
2. 36" CLR. OPENING REQUIRED WHEN DOOR IN FULLY OPEN POSITION
3. DOOR FINISH TO BE FROM FULL LINE OF AVAILABLE VENEERS

F SPECIALTY SLIDING DOOR SYSTEM

GATE SCHEDULE

TYPICAL DETAILS

51/A8.37 TS FENCE DTL
53/A8.37 TS GATE PH/LEVER

No	Size	PH	Hardware No	Type	Remarks
01	3'-0"x5'-0"	Y	11	TUBE STEEL GATE/FENCE	DEADBOLT
02	3'-0"x5'-0"	Y	12	TUBE STEEL GATE/FENCE	DEADBOLT

ACCESS DOOR SCHEDULE

NOTE: ACCESS DOORS FOR VALVES, HVAC DAMPERS AND SIM MECH ITEMS SHALL BE LOCATED FOR ACCESS. INDICATE LOCATIONS ON COORDINATION DRAWINGS AND RECORD DRAWINGS AT MIN SIZE. A3

No	Size	Mtl	Frame	Fr	Dtl	Dtl	Remark
A1	24"x36"	MET	MET	NONE	54/A8.50	13/A8.60	14 GA STEEL FRAME AND DOOR PANEL - PAINT TO MATCH CEILING SOFFIT - CYLINDER LOCKS - THICKNESS TO MATCH EIFS
A3	16"x16"	MET	MET	NONE	54/A8.50	13/A8.60	14 GA STEEL FRAME AND DOOR PANEL - PAINT TO MATCH CEILING VERIFY WITH MECH. ELEC. FIRE PROTECTION DRAWINGS/SPECIFICATIONS FOR REQUIRED ACCESS DOOR FOR EQUIP. VALVES, MAINTENANCE ITEMS AND ETC - FIRE RATED IN RATED WALLS, SS IN RESTROOMS - SEE PROJECT MANUAL FOR REQ LOCATIONS.

JOINT SEALANT SCHEDULE

INSTALL SEALANT INDICATED IN JOINTS FITTING DESCRIPTIONS AND LOCATIONS LISTED AS WELL AS IN LOCATIONS IDENTIFIED BY DRAWING DESIGNATIONS IN FIRST COLUMN BELOW

No	Joint Sealer	Description
ES1	TWO PART POLYSULFIED POURABLE SEALANT	EXTERIOR JOINTS IN HORIZONTAL SURFACES OF CONCRETE WHERE SLOPE IS LESS THAN 1/8" /FT USE BULKHEAD POUR. WHERE SLOPE IS GREATER THAN 1/8"/FT USE GUN-GRADE MATERIAL.
ES2	ONE-PART MILDEW RESISTANT SILICONE SEALANT	INTERIOR JOINTS IN VERTICAL SURFACES OF CERAMIC TILE IN TOILET ROOMS AND SIMILAR USES AND HORIZONTAL NON TRAFFIC SURFACES OF CERAMIC TILE TOILET ROOMS AND SIMILAR USES
ES3	MULTI-PART POURABLE URETHANE SEALANT	INTERIOR JOINTS IN HORIZONTAL SURFACES OF TILE WITH TRAFFIC SURFACES
ES4	ONE-PART NEUTRAL CURE SILICONE SEALANT	EXTERIOR AND INTERIOR JOINTS IN VERTICAL SURFACES OF 'CONCRETE' AND MASONRY' BETWEEN CONCRETE MASONRY AND STONE; BETWEEN METAL AND CONCRETE, MORTAR, OR STONE. INTERIOR AND EXTERIOR PERIMETER OF JOINTS OF METAL FRAMES IN EXTERIOR WALLS. EXTERIOR OVERHEAD JOINTS. ROOFING SHEET METAL JOINTS, ETC.
ES5	ONE-PART NEUTRAL CURE SEALANT	EXPOSED JOINTS WITHIN GLAZED CURTAIN WALL FRAMING SYSTEMS, SKYLIGHT FRAMING SYSTEMS, AND ALUM ENTRANCE FRAMING SYSTEMS (NOT TO BE USED ON EIFS)
ES6	ACRYLIC-EMULSION SEALANT	INTERIOR JOINTS IN FIELD-PAINTED VERTICAL AND OVERHEAD SURFACES AT PERIMETER OF ELEVATOR DOOR FRAMES AND HOLLOW METAL DOOR FRAMES, IN GYPSUM DRYWALL, PLASTER, CONCRETE, AND CONCRETE MASONRY, AND ALL OTHER JOINTS NOT INDICATED OTHERWISE.
ES7	ACOUSTICAL JOINT SEALANT	JOINTS IN AREAS REQUIRED TO REDUCE AIRBORNE SOUND TRANSMISSION INCLUDING WALLS AND ELECTRICAL BOXES
ES8	BUTYL SEALANT TAPE-DBL FACED	1" WIDE DBL FACED SEALANT TAPE METAL ROOFING

REDUCER STRIP/FLOOR ACCESSORY TYPES SCHEDULE

	Type	Mfr	Model #	Size	Remarks	Profile
RA1	FUSION TRANSITION	MANNINGTON	920	SEE MFR	GLUE DOWN CARPET TO LVT (CONFIRM MODEL WITH LVT THICKNESS SELECTED)	
ST1	STONE THRESHOLD	DALTILE	HOLLYWOOD DOUBLE BEVEL	MATCH WIDTH OF JAMB		

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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY No. C-19670 11-30-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.01.23

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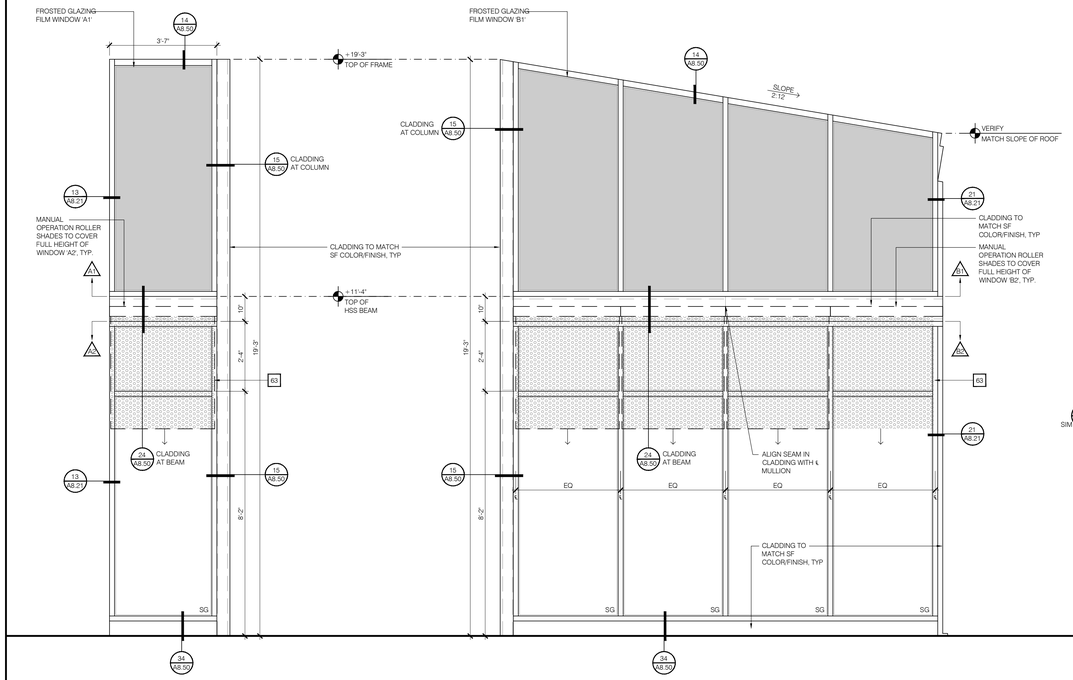
SCHEDULES

A2.00

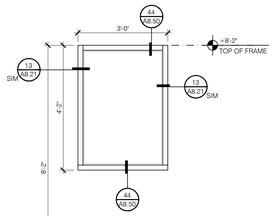
WINDOW SCHEDULE

SCALE: 1/2"

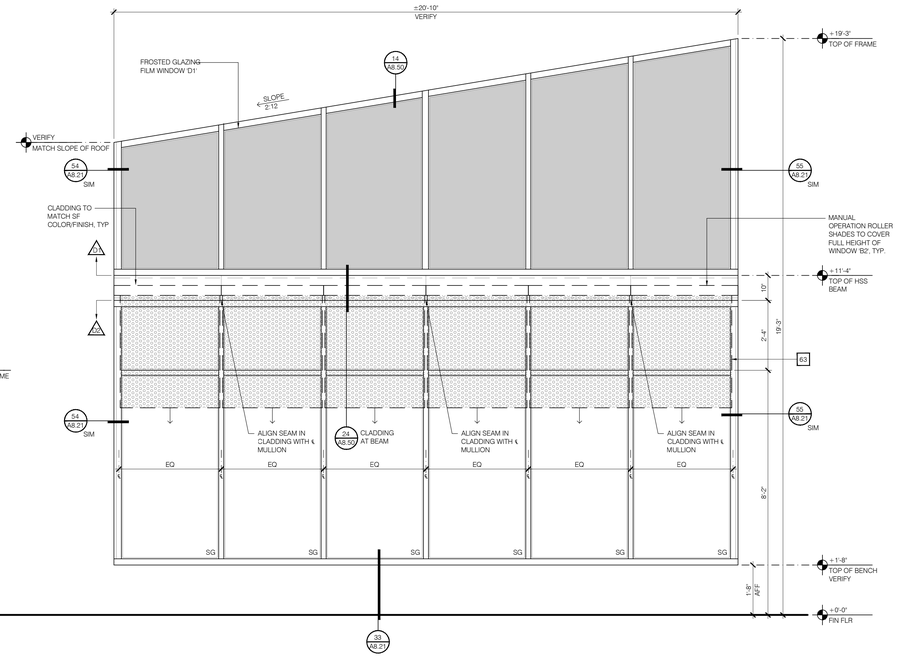


B1
B2
STOREFRONT WINDOW SYSTEM:
4 1/2" X 2" BRONZE ANODIZED ALUMINUM STOREFRONT WITH 1" INSULATED SOLEXIA GLAZING

NOTE: BLINDS TO EXTEND TO BOTTOM SILL OF GLAZING SYSTEM

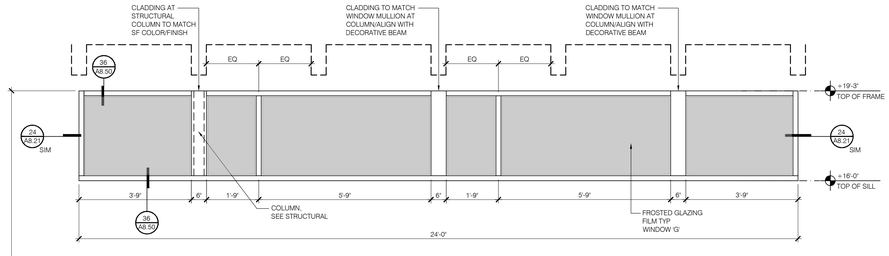


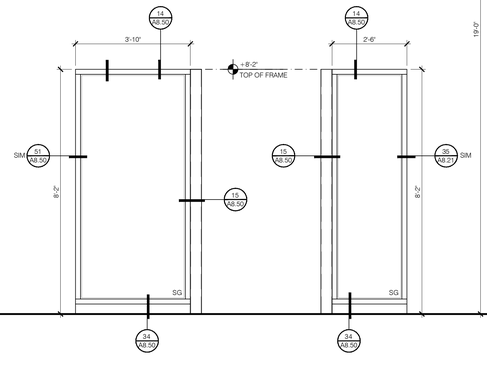
C
STOREFRONT WINDOW SYSTEM:
4 1/2" X 2" BRONZE ANODIZED ALUMINUM STOREFRONT WITH 1" INSULATED SOLEXIA GLAZING



D1
D2
STOREFRONT WINDOW SYSTEM:
4 1/2" X 2" BRONZE ANODIZED ALUMINUM STOREFRONT WITH 1" INSULATED SOLEXIA GLAZING

NOTE: BLINDS TO EXTEND TO BOTTOM SILL OF GLAZING SYSTEM



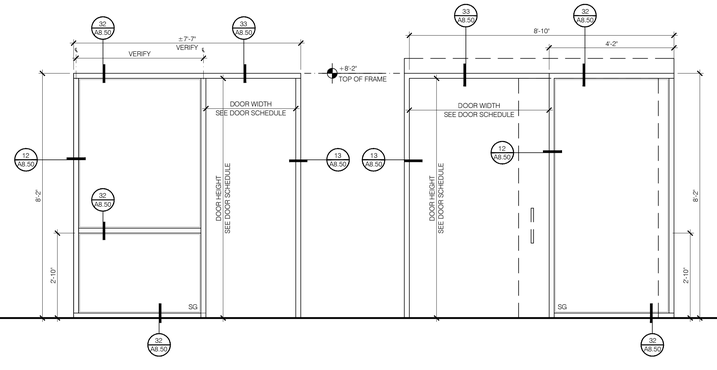


E
STOREFRONT WINDOW SYSTEM:
4 1/2" X 2" BRONZE ANODIZED ALUMINUM STOREFRONT WITH 1" INSULATED SOLEXIA GLAZING

F
STOREFRONT WINDOW SYSTEM:
4 1/2" X 2" BRONZE ANODIZED ALUMINUM STOREFRONT WITH 1" INSULATED SOLEXIA GLAZING

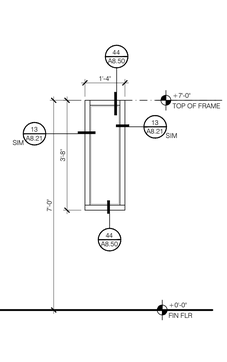
19'-0"

G
STOREFRONT WINDOW SYSTEM:
4 1/2" X 2" BRONZE ANODIZED ALUMINUM STOREFRONT WITH 1" INSULATED SOLEXIA GLAZING



H1
STOREFRONT WINDOW SYSTEM:
4 1/2" X 2" BRONZE ANODIZED ALUMINUM STOREFRONT WITH 1/4" CLEAR GLAZING

J
SPECIAL FUNCTION DOOR/ WINDOW SYSTEM:
4 1/2" X 2" BRONZE ANODIZED ALUMINUM FRAME WITH 1/4" CLEAR GLAZING



A
STOREFRONT WINDOW SYSTEM:
4 1/2" X 2" BRONZE ANODIZED ALUMINUM STOREFRONT WITH 1" ONE-WAY TINTED GLAZING

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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY C-19670 EXP. 11-30-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

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Project No	569-0003
Date	11.01.23

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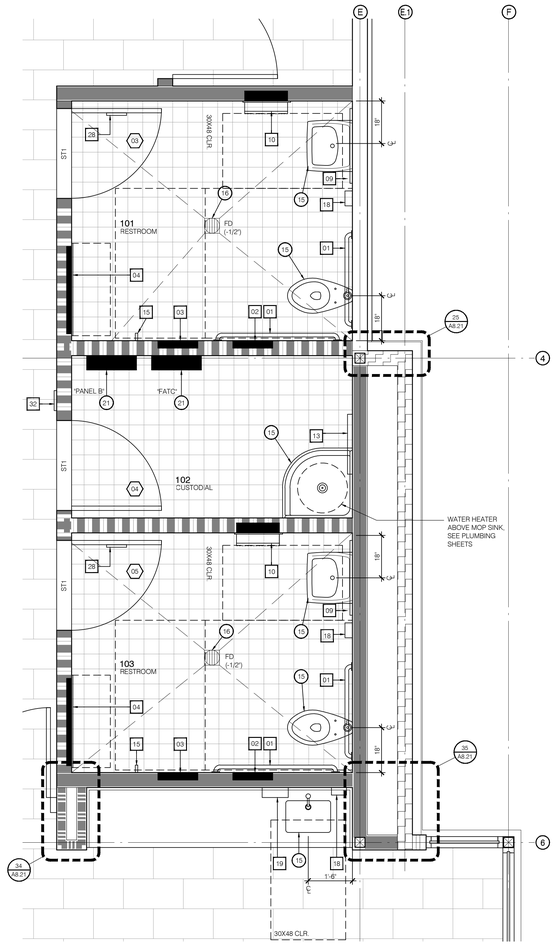
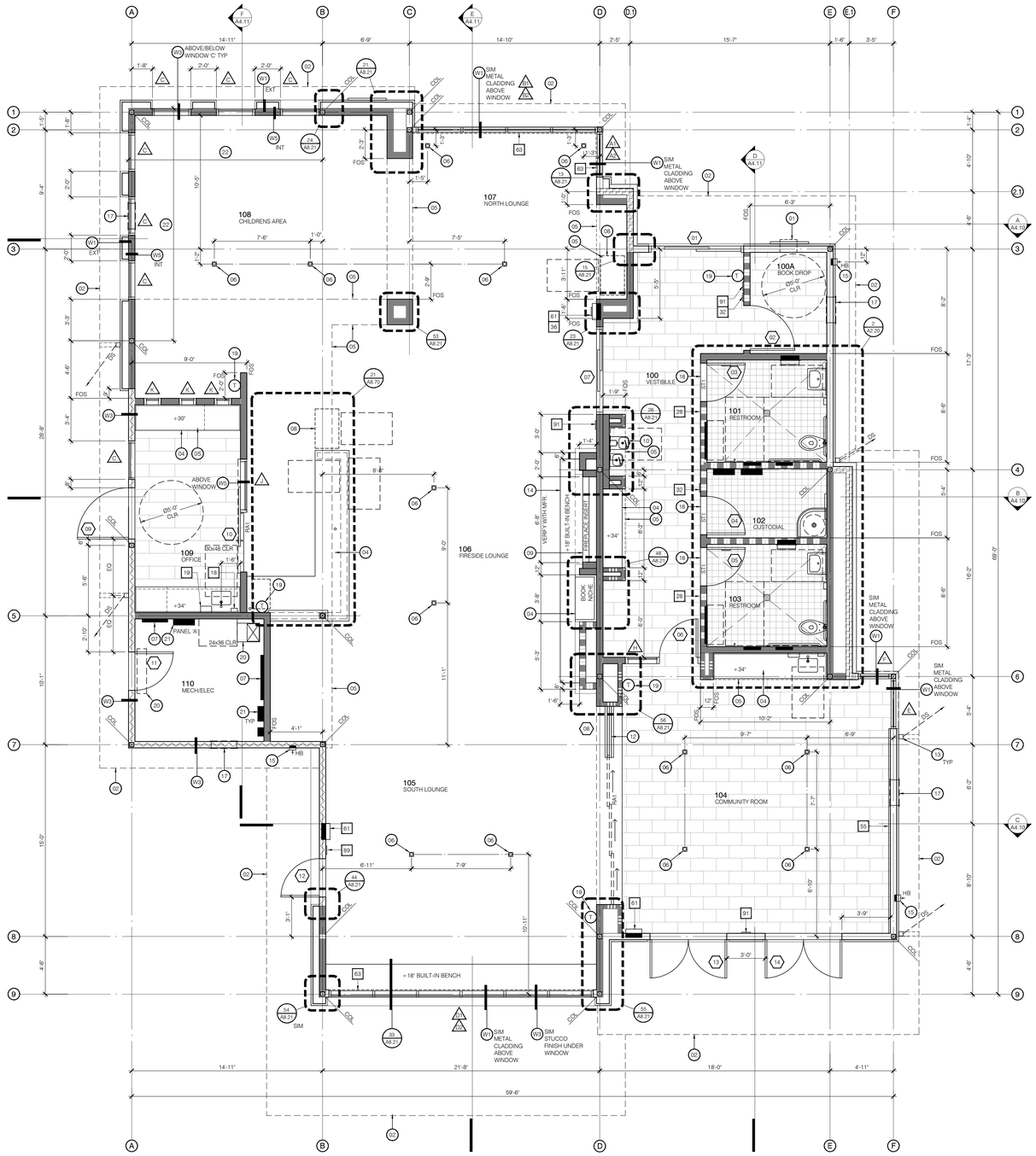
WINDOW SCHEDULE

A2.10



2. Partial Floor Plan - Restrooms

Scale: 1/2" = 1'-0"



1. Overall Floor Plan

Scale: 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. PLAN DIMENSIONS SHOWN FOR NEW CONSTRUCTION ARE TAKEN TO FACE OF STUD (FOS) OR FACE OF CONCRETE (FOC) EXCEPT DIMENSIONS NOTED FACE OF FINISH (FOF). WHERE A CLEAR DIMENSION (CLR) IS NOTED, IT SHALL MEAN DISTANCE BETWEEN DIMENSION ENDS SHALL BE CLEAR BETWEEN.
2. DO NOT SCALE DRAWINGS. IF UNABLE TO LOCATE DIMENSIONS FOR ANY ITEM OF WORK, CONSULT ARCHITECT FOR DIRECTION BEFORE PROCEEDING.
3. DETAILS AND KEYNOTES SHOWN ON CONSTRUCTION DOCUMENTS SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY REFERENCED AT EACH LOCATION OR NOT.
4. REFER TO STRUCTURAL SHEETS FOR ALL METAL STUD WALL FRAMING DETAILS
5. REFER TO STRUCTURAL SHEETS FOR SHEAR WALL LOCATIONS/REQUIREMENTS.

WALL TYPE LEGEND

LINE STYLE	DESCRIPTION	
W1	EXTERIOR WALL - 6" METAL STUDS WITH FIBER CEMENT RAINSCREEN SYSTEM (WOOD LOOK), NON-RATED. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR INTERIOR WALL FINISH	26 A8.20
W2	EXTERIOR WALL - 6" METAL STUDS WITH STONE VENEER FINISH NON-RATED. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR INTERIOR WALL FINISH	20 A8.20
W3	EXTERIOR WALL - 6" METAL STUDS WITH STUCCO FINISH. NON-RATED. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR INTERIOR WALL FINISH	21 A8.20
W4	INTERIOR WALL - 4" METAL STUDS, FULL HT. OMIT GYP BD AT INTERIOR OF WALL CAVITY WHERE OCCURS, SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR WALL FINISH	23 A8.20
W5	INTERIOR WALL - 6" METAL STUDS, FULL HT. OMIT GYP BD AT INTERIOR OF WALL CAVITY WHERE OCCURS, SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR WALL FINISH	22 A8.20
W6	INTERIOR WALL - 6" METAL STUD, PARTIAL HT. OMIT GYP BD AT INTERIOR OF WALL CAVITY WHERE OCCURS, SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR WALL FINISH	21 A8.20
CDK	TYPICAL STEEL COLUMN, SEE STRUCTURAL FOR ADDITIONAL INFO/SIZES	
#	ACCESSORY, SEE ACCESSORY SCHEDULE FOR MORE INFORMATION	

FLOOR PLAN KEYNOTES

01	THRU-WALL BOOK DROP UNIT, SEE EXTERIOR ELEVATIONS	
02	LINE OF ROOF OVERHANG ABOVE, SEE ROOF PLAN FOR MORE INFORMATION	
03	NOT USED	
04	BUILT-IN CABINETRY, SEE INTERIOR ELEVATIONS FOR MORE INFORMATION	
05	LINE OF CEILING SOFFIT ABOVE, SEE REFLECTED CEILING PLAN	
06	RECESSED FLOOR ELECTRICAL BOX, SEE ELECTRICAL SHEETS FOR MORE INFORMATION	
07	PHONE PANELBOARD WITH PLYWOOD BACKBOARD, SEE ELECTRICAL SHEETS FOR MORE INFORMATION	
08	SELF CHECKOUT EQUIPMENT - FOIO, SEE ELECTRICAL SHEETS FOR MORE INFORMATION	
09	ELECTRIC FIREPLACE INSERT, SEE ELECTRICAL SHEETS FOR MORE INFORMATION	53 A8.70
10	ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER/CHILLER, SEE ELECTRICAL/PLUMBING SHEETS FOR MORE INFORMATION	45 A8.00
11	NOT USED	
12	FOLDING PARTITION SHOWN IN OPEN POSITION, SEE DOOR SCHEDULE FOR MORE INFORMATION	
13	DOWNSPOUT, SEE ROOF PLAN	
14	SOLID POLYMER BENCH SEAT/HEARTH WITH STEEL TUBE SUPPORT AT 16" O.C.	34 A8.70
15	PLUMBING FIXTURE, SEE PLUMBING SHEETS	
16	FLOOR DRAIN, SEE PLUMBING SHEETS	
17	OUTSIDE AIR LOUVER, SEE MECHANICAL SHEETS/EXTERIOR ELEVATIONS	
18	STONE THRESHOLD, SEE SHEET A2.00	
19	THERMOSTAT LOCATION, SEE MECHANICAL SHEETS	
20	MECHANICAL EQUIPMENT, SEE MECHANICAL SHEETS	
21	ELECTRICAL/FIRE ALARM EQUIPMENT, SEE ELECTRICAL SHEETS	
22	PROVIDE ADDITIONAL LAYER OF PLYWOOD SHEATHING BETWEEN W1 AND W5 TO ALIGN FINISH(ES) WITH SHEAR WALL LOCATION(S)	

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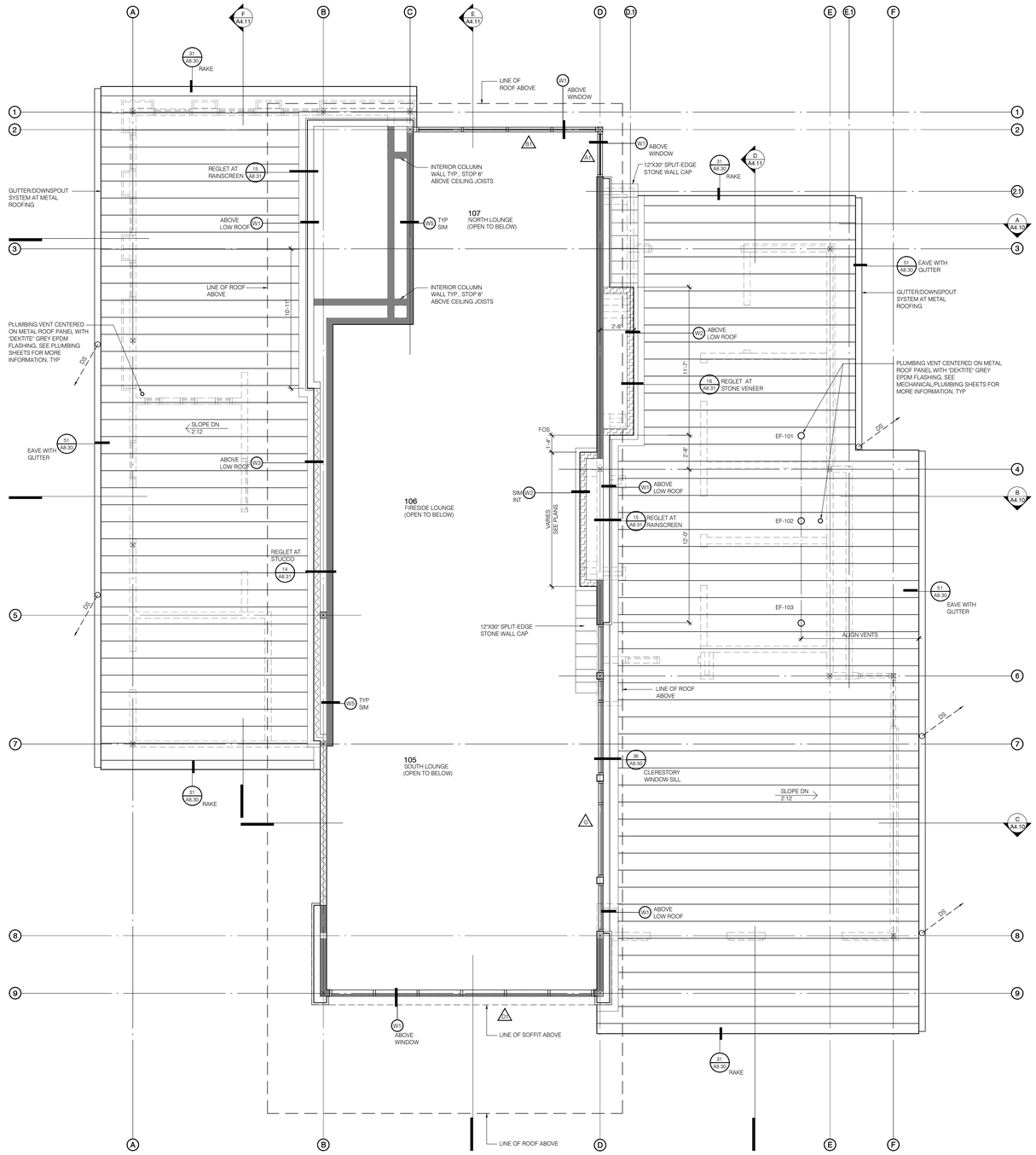
FLOOR PLAN

A2.20



Low Roof Plan/Clerestory Plan

Scale: 1/4" = 1'-0"

WORKING NORTH

ROOF NOTES

1. IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO PLACE THE RESPONSIBILITY FOR THE WATER-TIGHTNESS OF THE ENTIRE ROOF UNDER THE ROOFING CONTRACTOR. IN SUBMITTING A BID, THE ROOFING CONTRACTOR AND MANUFACTURER WHOSE MATERIAL HE PROPOSES TO USE, AGREE TO THE CONDITIONS SET FORTH IN ALL THE CONTRACT DOCUMENTS.
2. CONTRACTOR AGREES THAT ALL CONDITIONS AS SET FORTH IN SAID DOCUMENTS ARE COMPLETE AND MEET THEIR SPECIFIC REQUIREMENTS FOR A BONDED ROOF OF THE PERIOD SPECIFIED.
3. IN THE EVENT THE DOCUMENTS DO NOT COMPLETELY OR CORRECTLY COVER THE MANUFACTURERS SPECIFIC REQUIREMENTS, THE ROOFING CONTRACTOR SHALL PROVIDE THE SAME IN HIS BID. UNDER NO CIRCUMSTANCES WILL AN EXTRA BE ALLOWED FOR HIS FAILURE TO COMPLY WITH REQUIREMENTS HEREIN AND MANUFACTURERS WRITTEN REQUIREMENTS.
4. THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY REFLECTED AT EACH LOCATION OR NOT.
5. ALL VENTS THRU ROOF SHALL BE EXTENDED TO 12" MINIMUM DISTANCE ABOVE ROOF DECK.
6. CLEAN ALL GUTTERS AND DRAIN LINES OF DEBRIS PRIOR TO FINAL ACCEPTANCE.
7. ALL ROOF SLOPES ARE AS INDICATED. SEE SECTIONS FOR ELEVATIONS AND SIMILAR REFERENCES.
8. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ROOF PENETRATIONS NOT SHOWN HERE.

ROOF PLAN LEGEND

PREFINISHED METAL ROOF- AEP DESIGN SPAN HP-20GA FLAT PAN 16" RIBS (OR APPROVED EQUAL) OVER SELF-ADHERING COLD-APPLIED RUBBERIZED ASPHALT MEMBRANE OVER 1-1/2" INSULATION BOARD OVER 1/2" CDX PLYWD OVER METAL DECK

WALL TYPE LEGEND

LINE STYLE	DESCRIPTION	
W1	EXTERIOR WALL - 6" METAL STUDS WITH FIBER CEMENT RAINSCREEN SYSTEM (WOOD LOOK), NON-RATED. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR INTERIOR WALL FINISH	30 A8.05
W2	EXTERIOR WALL - 6" METAL STUDS WITH STONE VENEER FINISH NON-RATED. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR INTERIOR WALL FINISH	26 A8.05
W3	EXTERIOR WALL - 6" METAL STUDS WITH STUCCO FINISH, NON-RATED. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR INTERIOR WALL FINISH	24 A8.05
W4	INTERIOR WALL - 4" METAL STUDS, FULL HT, OMIT GYP BD AT INTERIOR OF WALL CAVITY WHERE OCCURS, SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR WALL FINISH	23 A8.05
W5	INTERIOR WALL - 6" METAL STUDS, FULL HT, OMIT GYP BD AT INTERIOR OF WALL CAVITY WHERE OCCURS, SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR WALL FINISH	22 A8.05
W6	INTERIOR WALL - 6" METAL STUD, PARTIAL HT, OMIT GYP BD AT INTERIOR OF WALL CAVITY WHERE OCCURS, SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR WALL FINISH	21 A8.05
W7	INTERIOR WALL - 6" METAL STUD, PARTIAL HT, OMIT GYP BD AT INTERIOR OF WALL CAVITY WHERE OCCURS, SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR WALL FINISH	21 A8.05
CS	TYPICAL STEEL COLUMN, SEE STRUCTURAL FOR ADDITIONAL INFO/SIZES	
#	ACCESSORY, SEE ACCESSORY SCHEDULE FOR MORE INFORMATION	

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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
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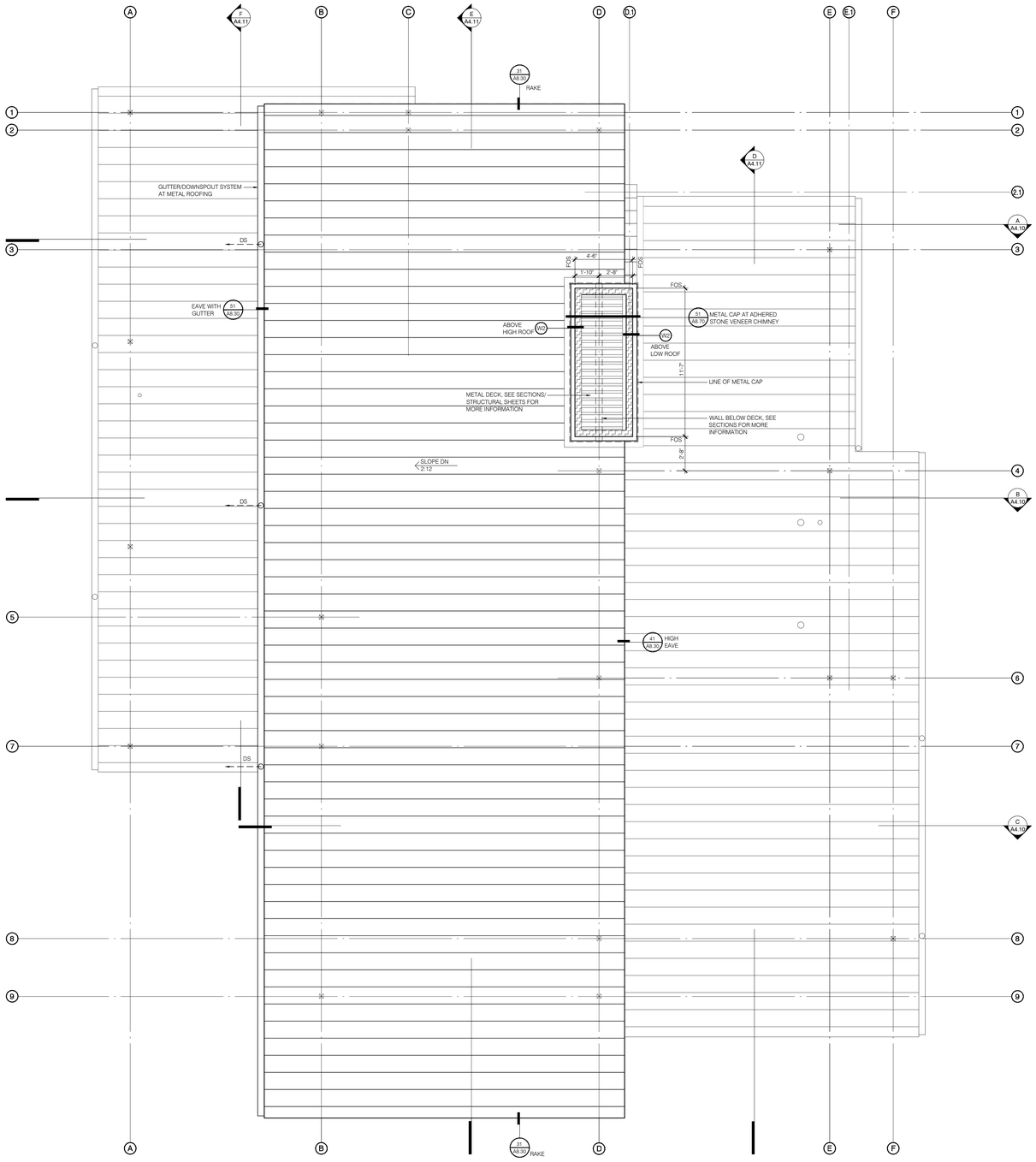
LOW ROOF PLAN/
CLERESTORY PLAN

A3.00



High Roof Plan

Scale: 1/4" = 1'-0"

WORKING NORTH

ROOF NOTES

1. IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO PLACE THE RESPONSIBILITY FOR THE WATER-TIGHTNESS OF THE ENTIRE ROOF UNDER THE ROOFING CONTRACTOR. IN SUBMITTING A BID, THE ROOFING CONTRACTOR AND MANUFACTURER WHOSE MATERIAL HE PROPOSES TO USE, AGREE TO THE CONDITIONS SET FORTH IN ALL THE CONTRACT DOCUMENTS.
2. CONTRACTOR AGREES THAT ALL CONDITIONS AS SET FORTH IN SAID DOCUMENTS ARE COMPLETE AND MEET THEIR SPECIFIC REQUIREMENTS FOR A BONDED ROOF OF THE PERIOD SPECIFIED.
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6. CLEAN ALL GUTTERS AND DRAIN LINES OF DEBRIS PRIOR TO FINAL ACCEPTANCE.
7. ALL ROOF SLOPES ARE AS INDICATED. SEE SECTIONS FOR ELEVATIONS AND SIMILAR REFERENCES.
8. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ROOF PENETRATIONS NOT SHOWN HERE.

ROOF PLAN LEGEND

PREFINISHED METAL ROOF- AEP DESIGN SPAN HP-20GA FLAT PAN 16" RIBS (OR APPROVED EQUAL) OVER SELF-ADHERING COLD APPLIED RUBBERIZED ASPHALT MEMBRANE OVER 1-1/2" INSULATION BOARD OVER 1/2" CDX PLYWD OVER METAL DECK

WALL TYPE LEGEND

LINE STYLE	DESCRIPTION	
W1	EXTERIOR WALL - 6" METAL STUDS WITH FIBER CEMENT RAINSCREEN SYSTEM (WOOD LOOK), NON-RATED. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR INTERIOR WALL FINISH	30 A6.05
W2	EXTERIOR WALL - 6" METAL STUDS WITH STONE VENEER FINISH NON-RATED. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR INTERIOR WALL FINISH	26 A6.05
W3	EXTERIOR WALL - 6" METAL STUDS WITH STUCCO FINISH, NON-RATED. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR INTERIOR WALL FINISH	24 A6.05
W4	INTERIOR WALL - 4" METAL STUDS, FULL HT. OMIT GYP BD AT INTERIOR OF WALL CAVITY WHERE OCCURS. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR WALL FINISH	23 A6.05
W5	INTERIOR WALL - 6" METAL STUDS, FULL HT. OMIT GYP BD AT INTERIOR OF WALL CAVITY WHERE OCCURS. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR WALL FINISH	22 A6.05
W6	INTERIOR WALL - 6" METAL STUD, PARTIAL HT. OMIT GYP BD AT INTERIOR OF WALL CAVITY WHERE OCCURS. SEE INTERIOR ELEVATIONS/FINISH SCHEDULE FOR WALL FINISH	21 A6.05
	TYPICAL STEEL COLUMN. SEE STRUCTURAL FOR ADDITIONAL INFO/SIZES	
#	ACCESSORY. SEE ACCESSORY SCHEDULE FOR MORE INFORMATION	

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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

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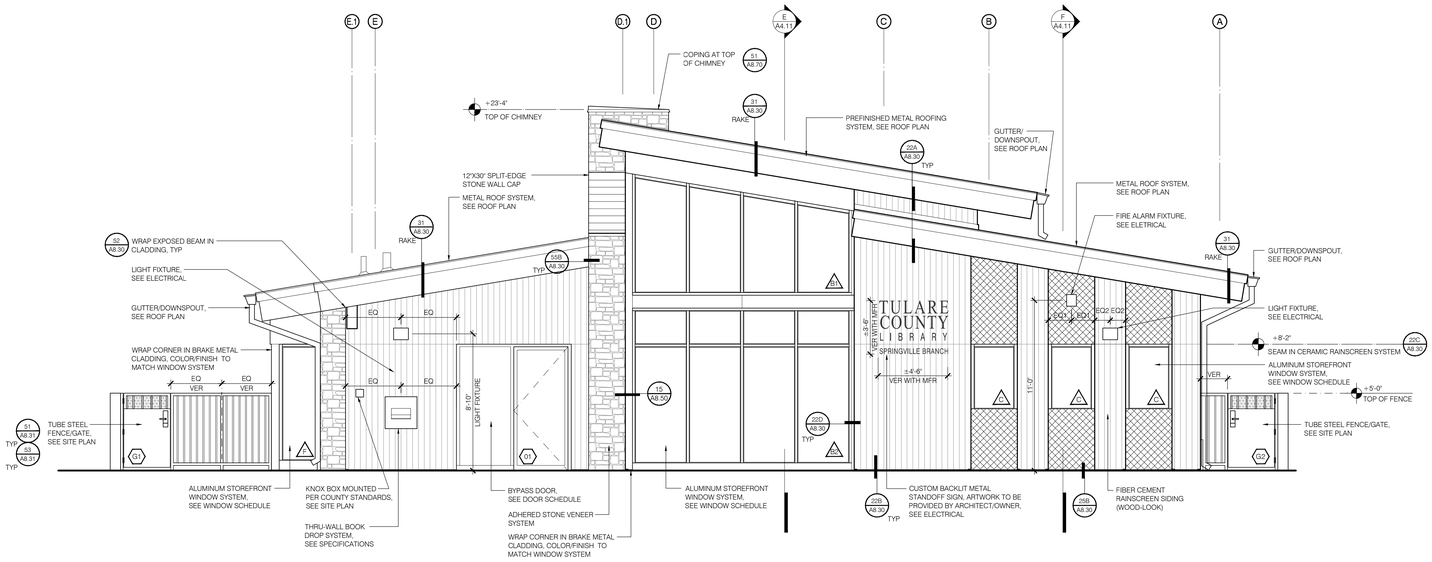
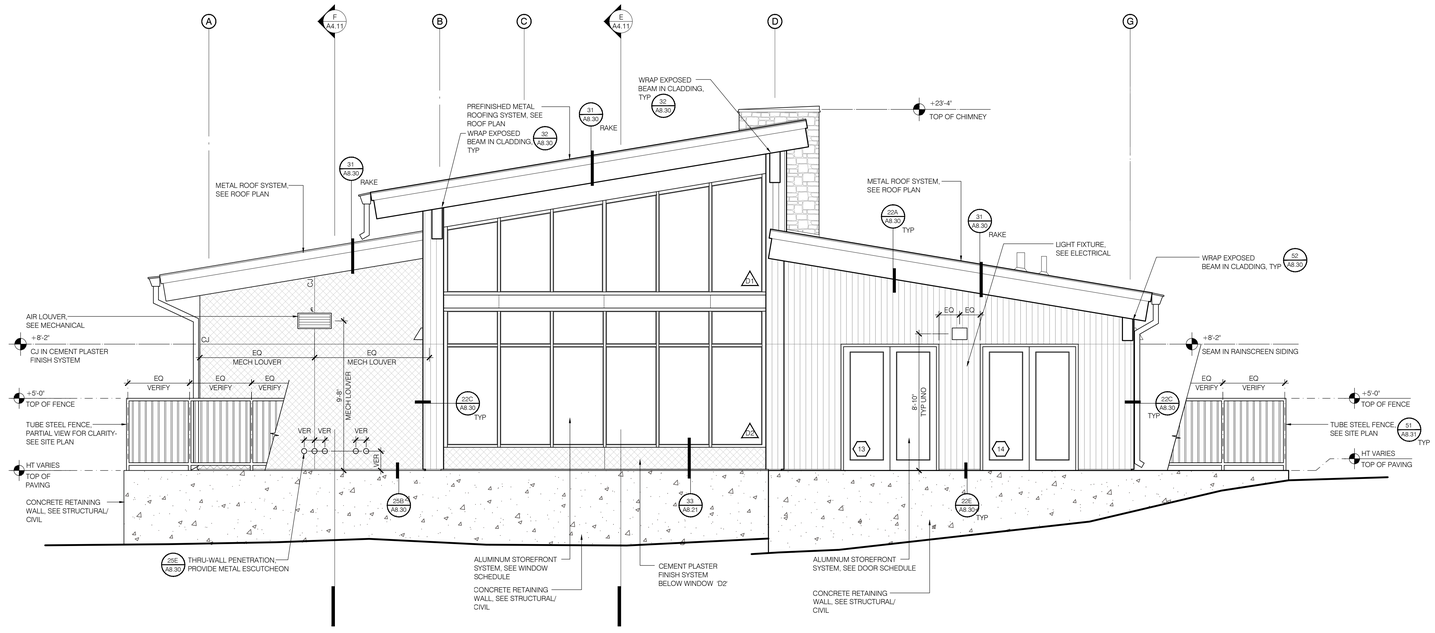
HIGH ROOF PLAN

A3.01



A. North Elevation

Scale: 1/4" = 1'-0"



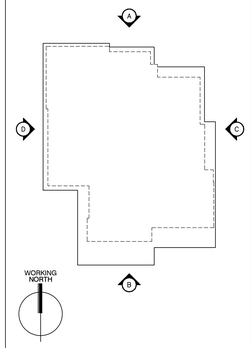
B. South Elevation

Scale: 1/4" = 1'-0"

WALL MATERIAL LEGEND

Hatch Style	Description	Detail
	CEMENT PLASTER FINISH SYSTEM	2/A8.10
	FIBER CEMENT RAINSCREEN SYSTEM (WOOD LOOK, VERTICAL INSTALLATION)	2/A8.10
	ADHERED STONE VENEER SYSTEM	4/A8.10

ELEVATION KEY PLAN



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JAMES PATRICK
NO. C-19670
REN. 08-31-25
STATE OF CALIFORNIA
JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

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Project No	569-0003
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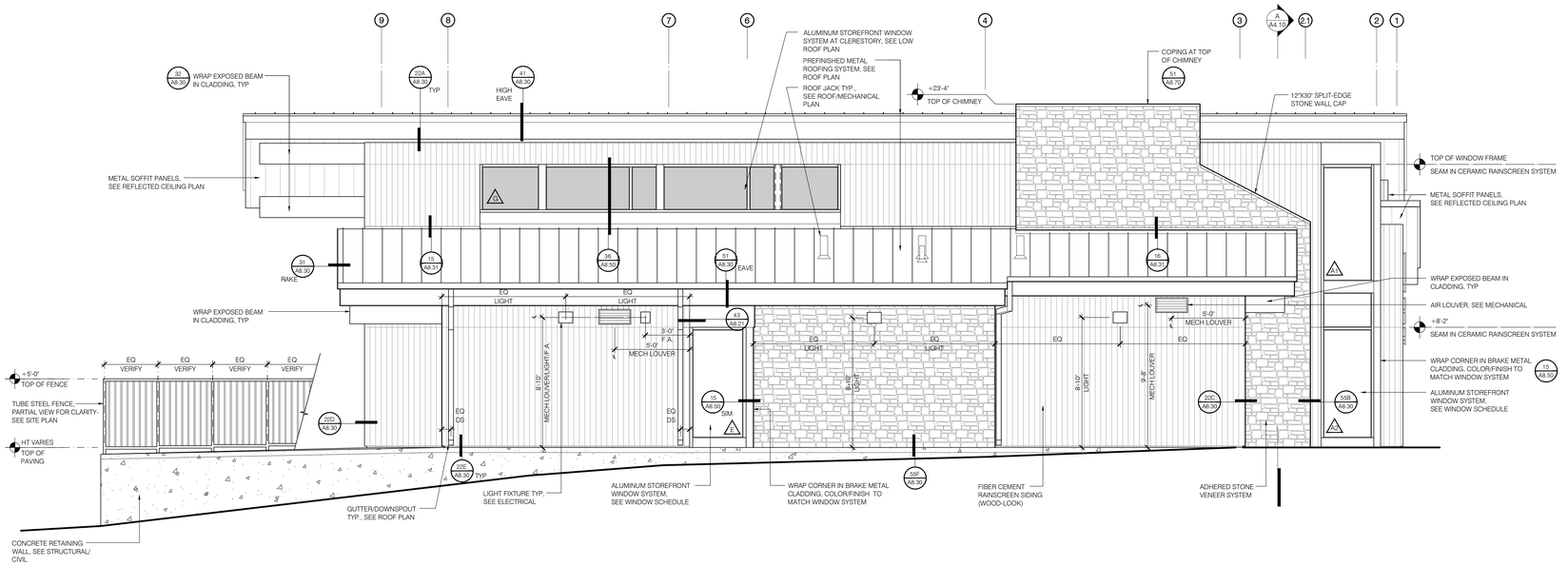
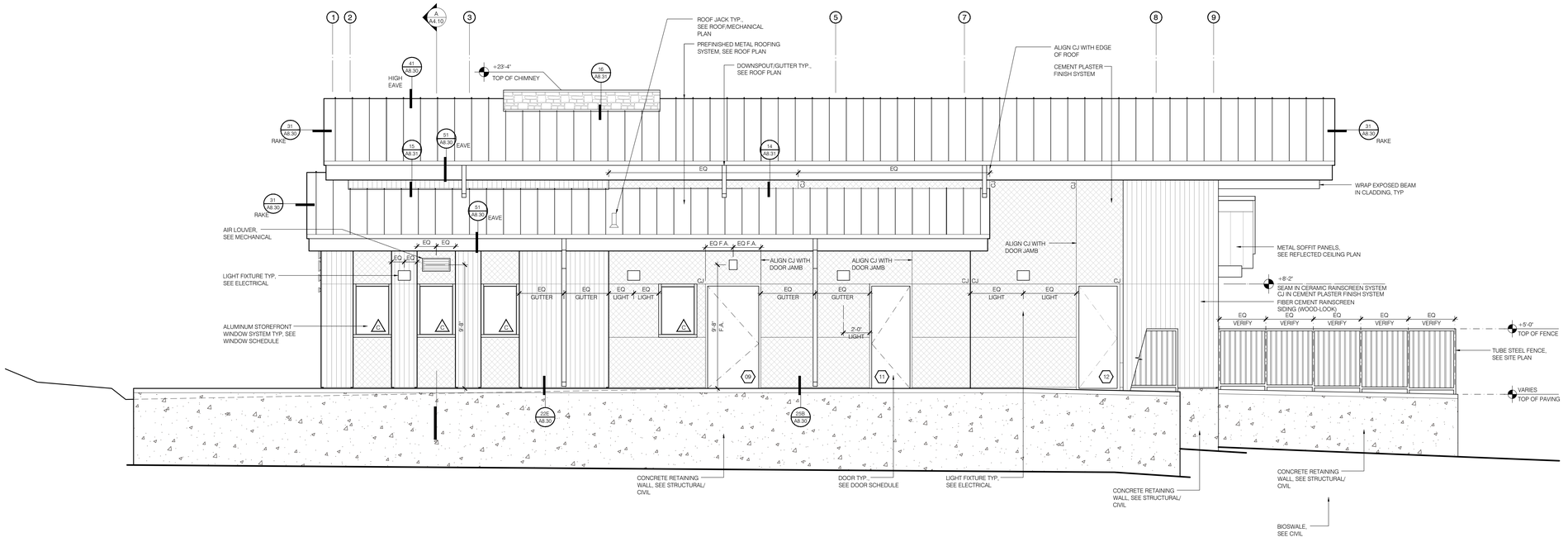
EXTERIOR ELEVATIONS

A4.00



C. East Elevation

Scale: 1/4" = 1'-0"



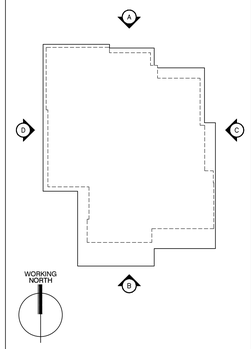
D. West Elevation

Scale: 1/4" = 1'-0"

WALL MATERIAL LEGEND

Hatch Style	Description	Detail
	CEMENT PLASTER FINISH SYSTEM	23 A8.30
	FIBER CEMENT RAINSCREEN SYSTEM (WOOD LOOK, VERTICAL INSTALLATION)	24 A8.30
	ADHERED STONE VENEER SYSTEM	43 A8.30

ELEVATION KEY PLAN



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ARCHITECT C-19670

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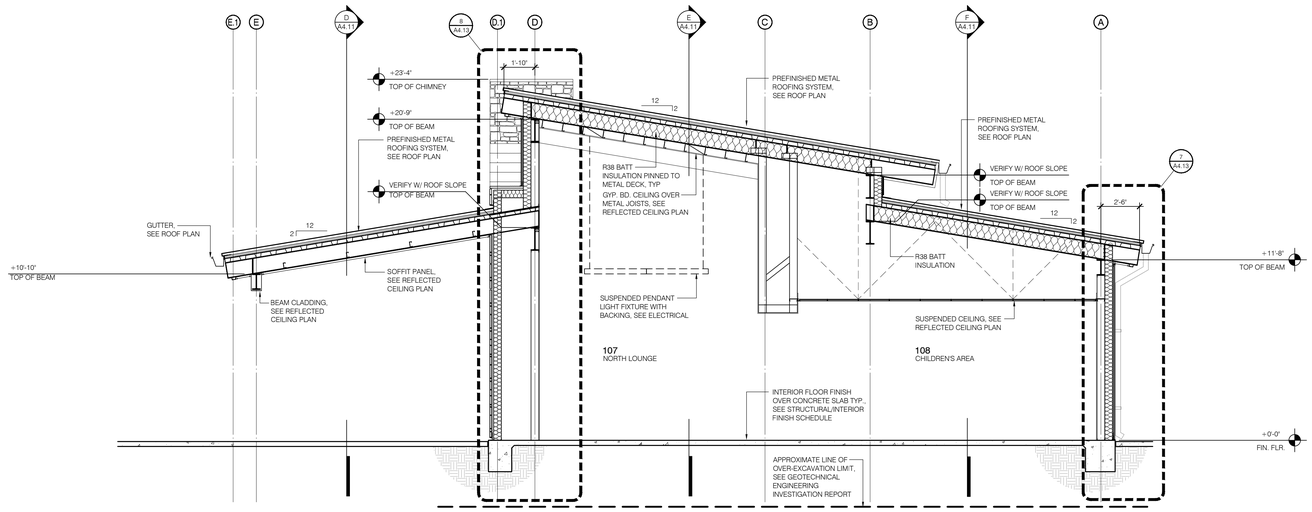
EXTERIOR ELEVATIONS

A4.01



A. Building Section

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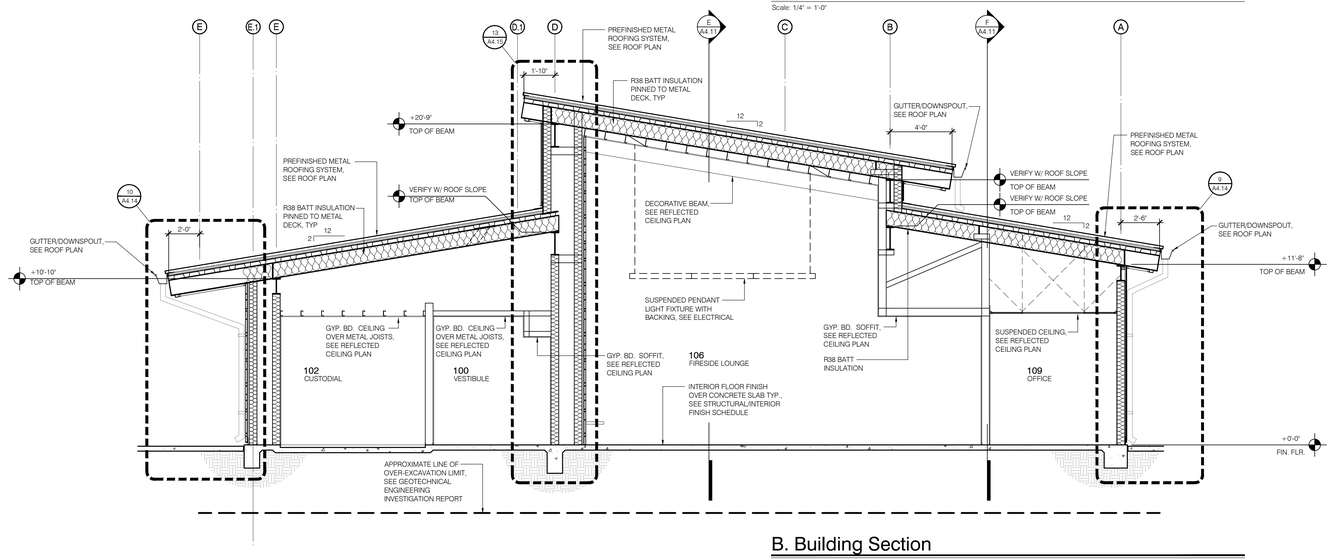
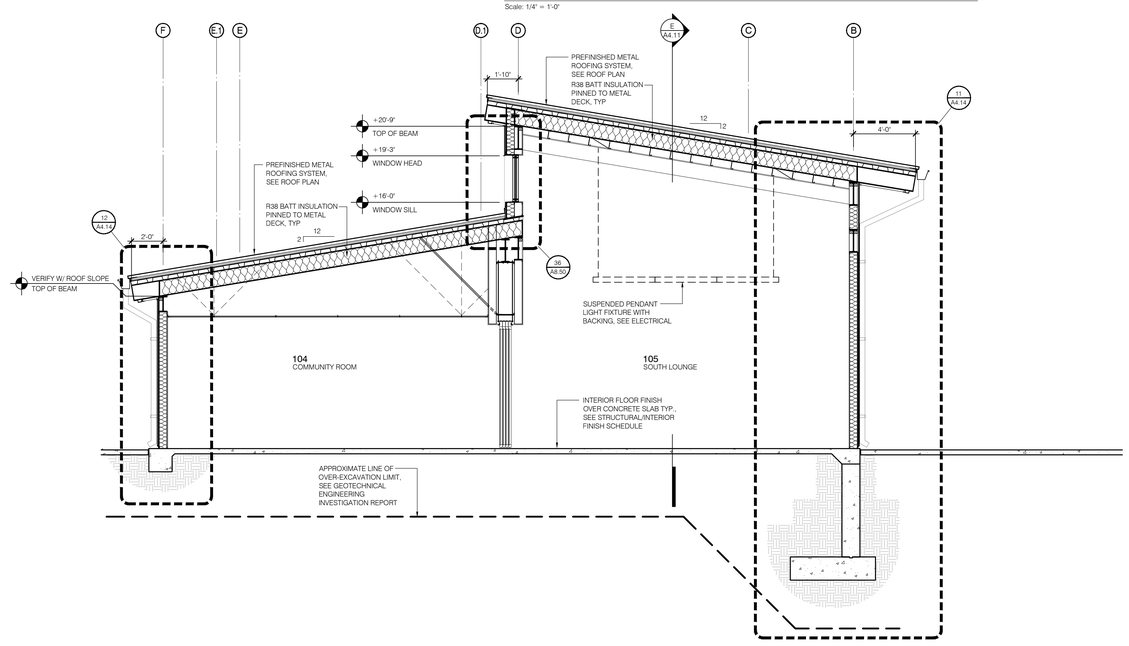


B. Building Section

Scale: 1/4" = 1'-0"



C. Building Section

Scale: 1/4" = 1'-0"

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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

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Project No	569-0003
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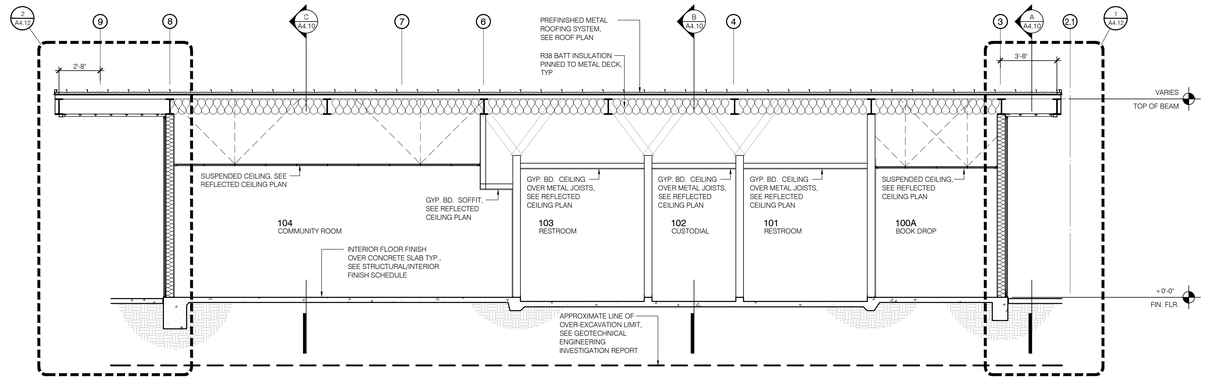
BUILDING SECTIONS

A4.10



D. Building Section

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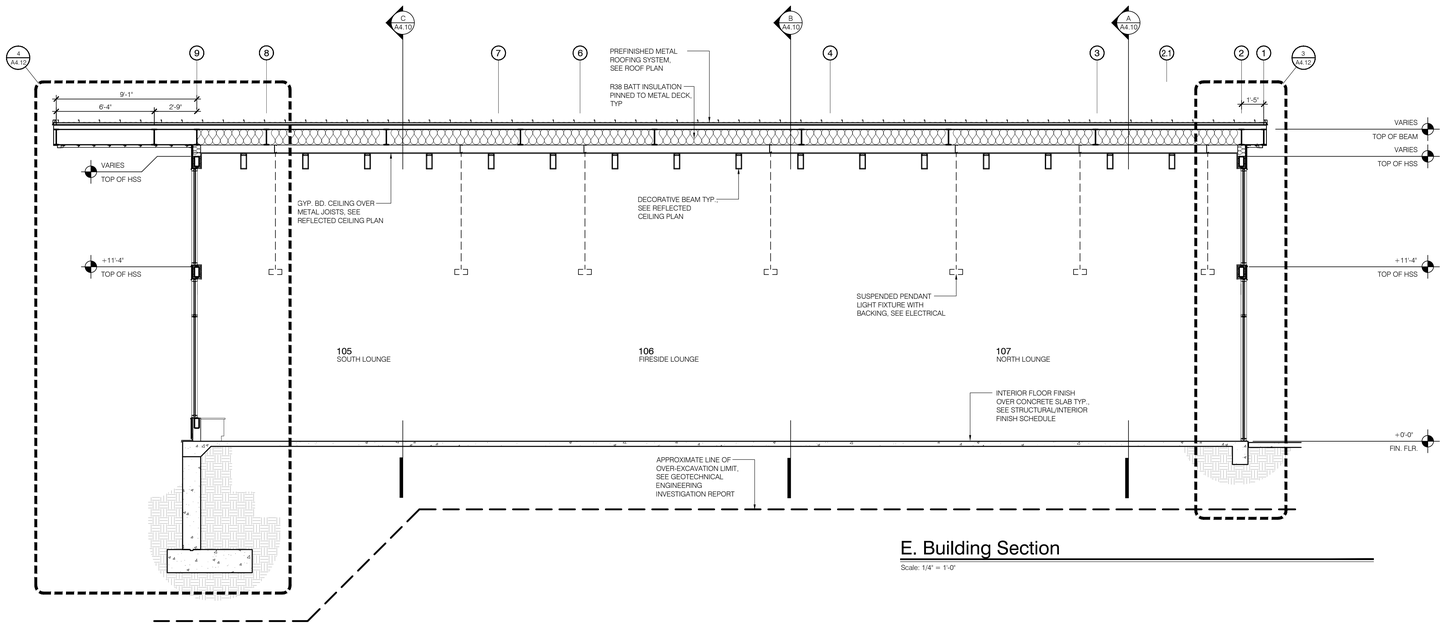

E. Building Section

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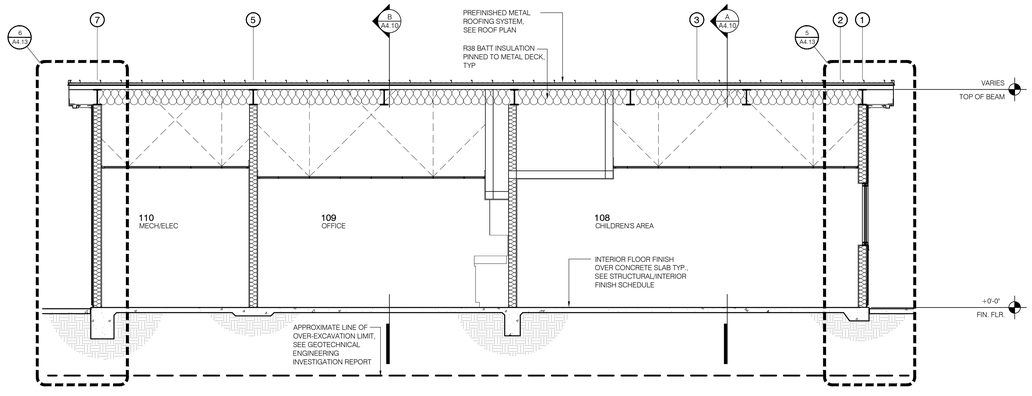

F. Building Section

Scale: 1/4" = 1'-0"

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EXP. 08-31-25
STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

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PROJECT INFO

Project No	569-0003
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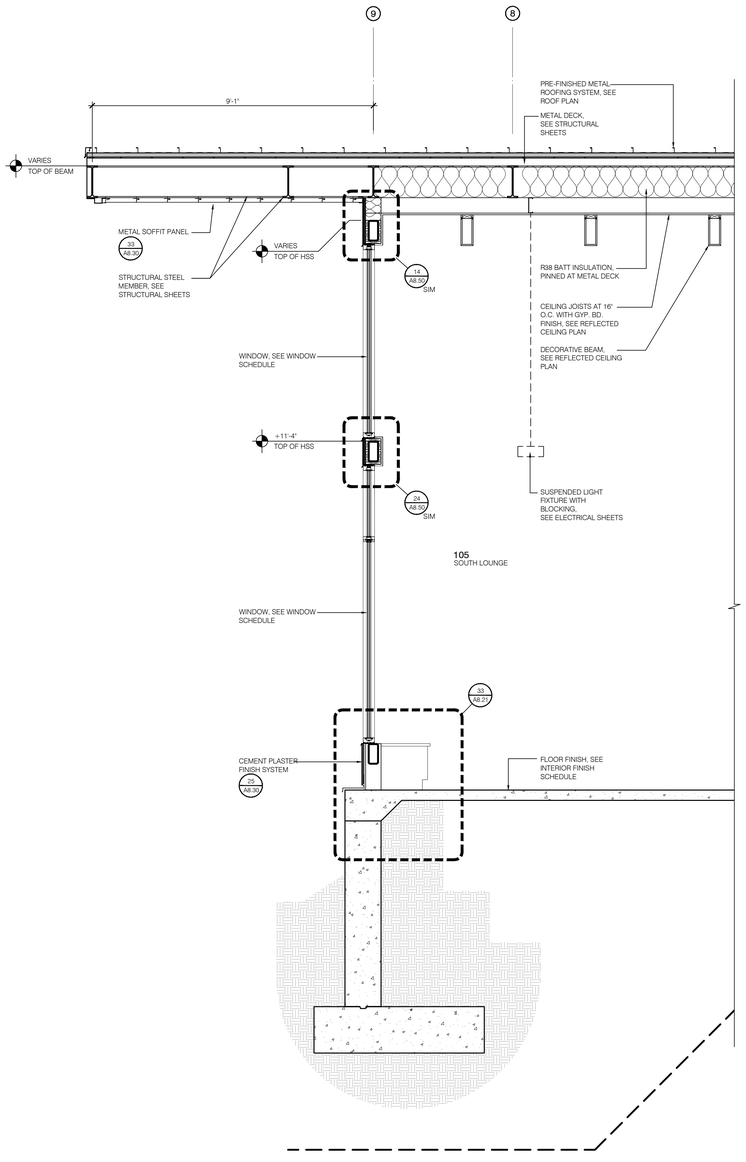
No	Date	Item

10.26.23 12:58

BUILDING SECTIONS

A4.11



4. Wall Section

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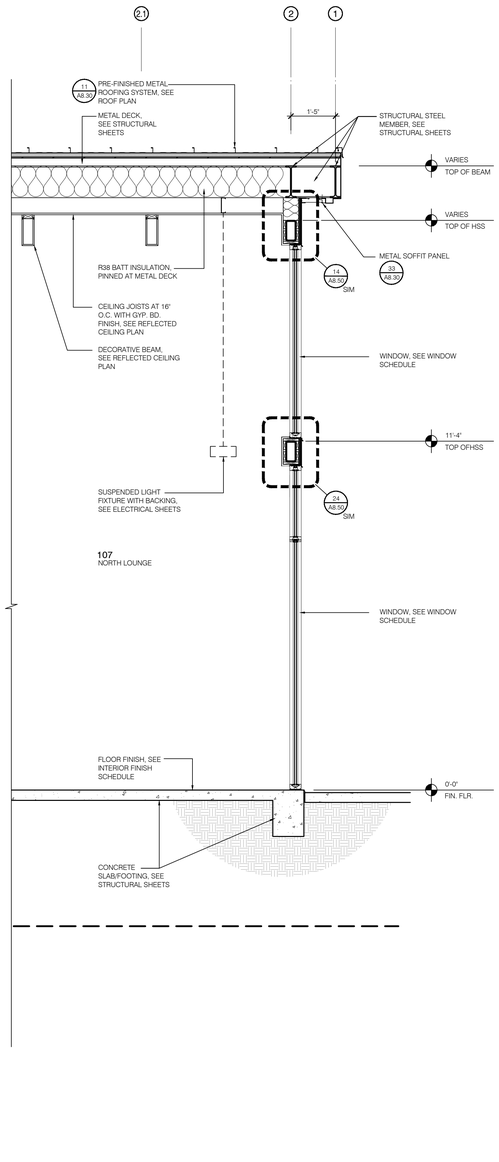
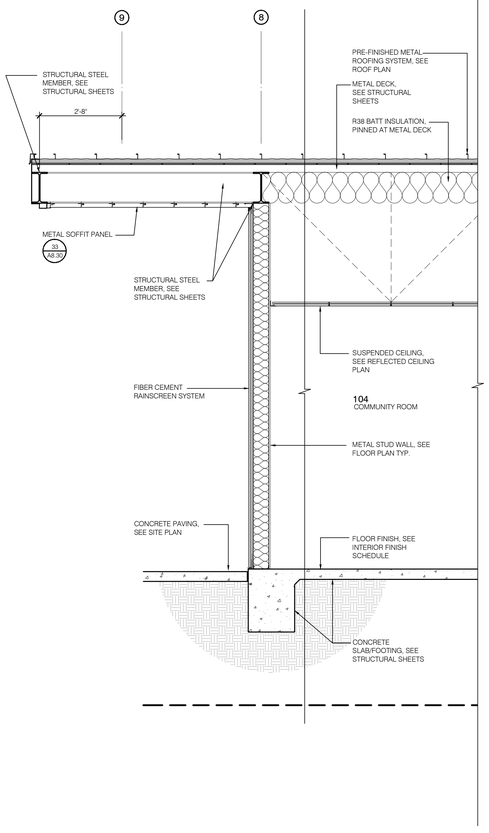


3. Wall Section

Scale: 1/2" = 1'-0"



2. Wall Section

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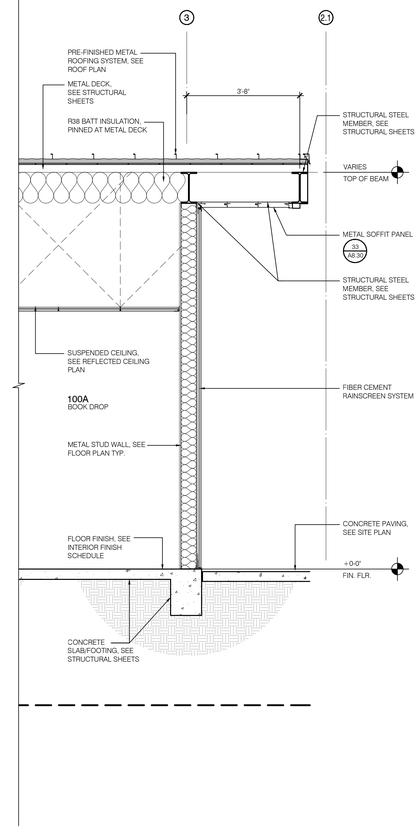

1. Wall Section

Scale: 1/2" = 1'-0"

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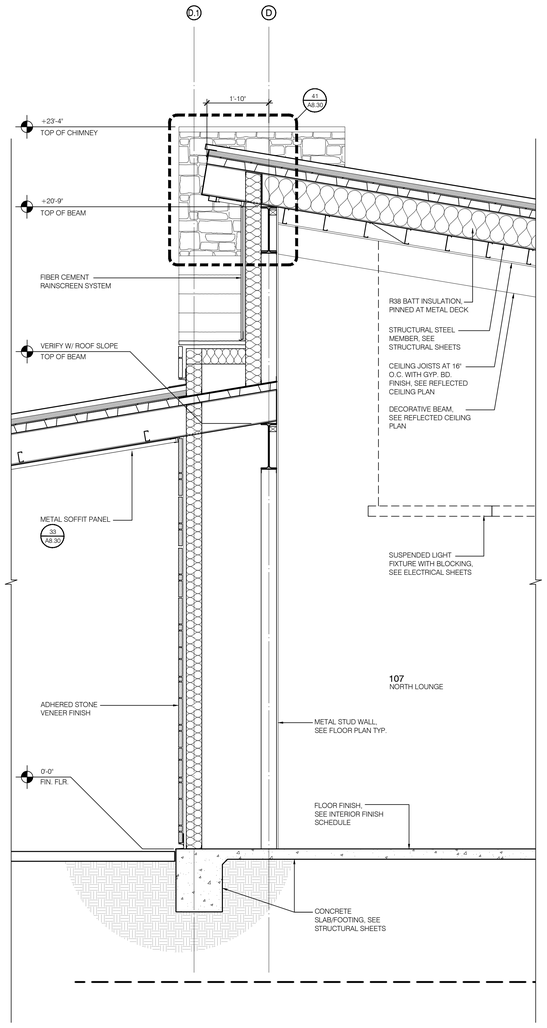
WALL SECTIONS

A4.12



8. Wall Section

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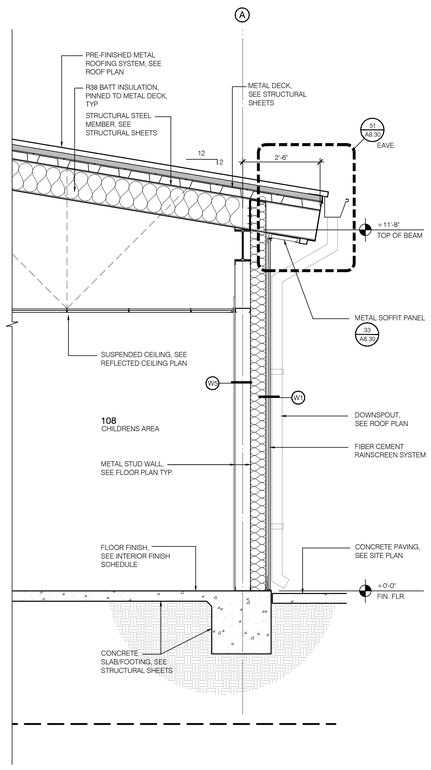

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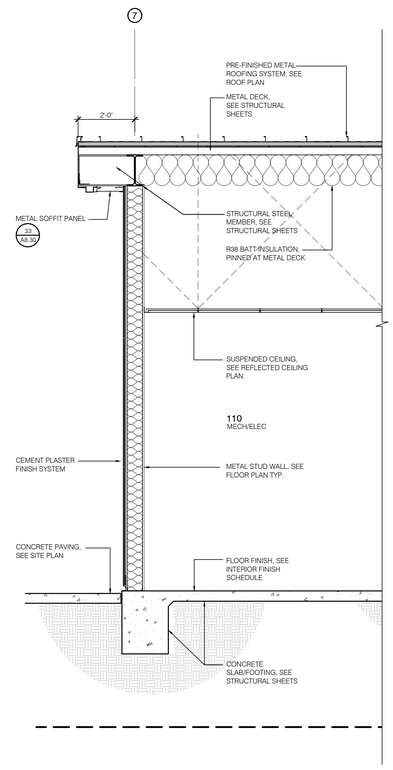

6. Wall Section

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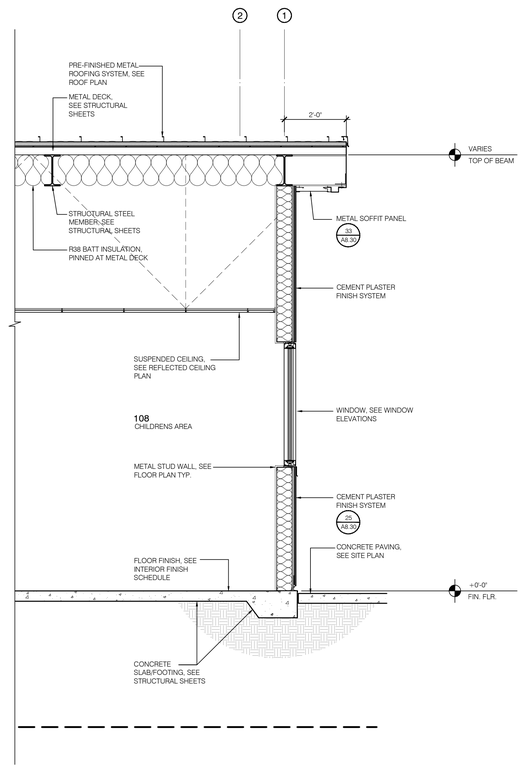

5. Wall Section

Scale: 1/2" = 1'-0"

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Project No	569-0003
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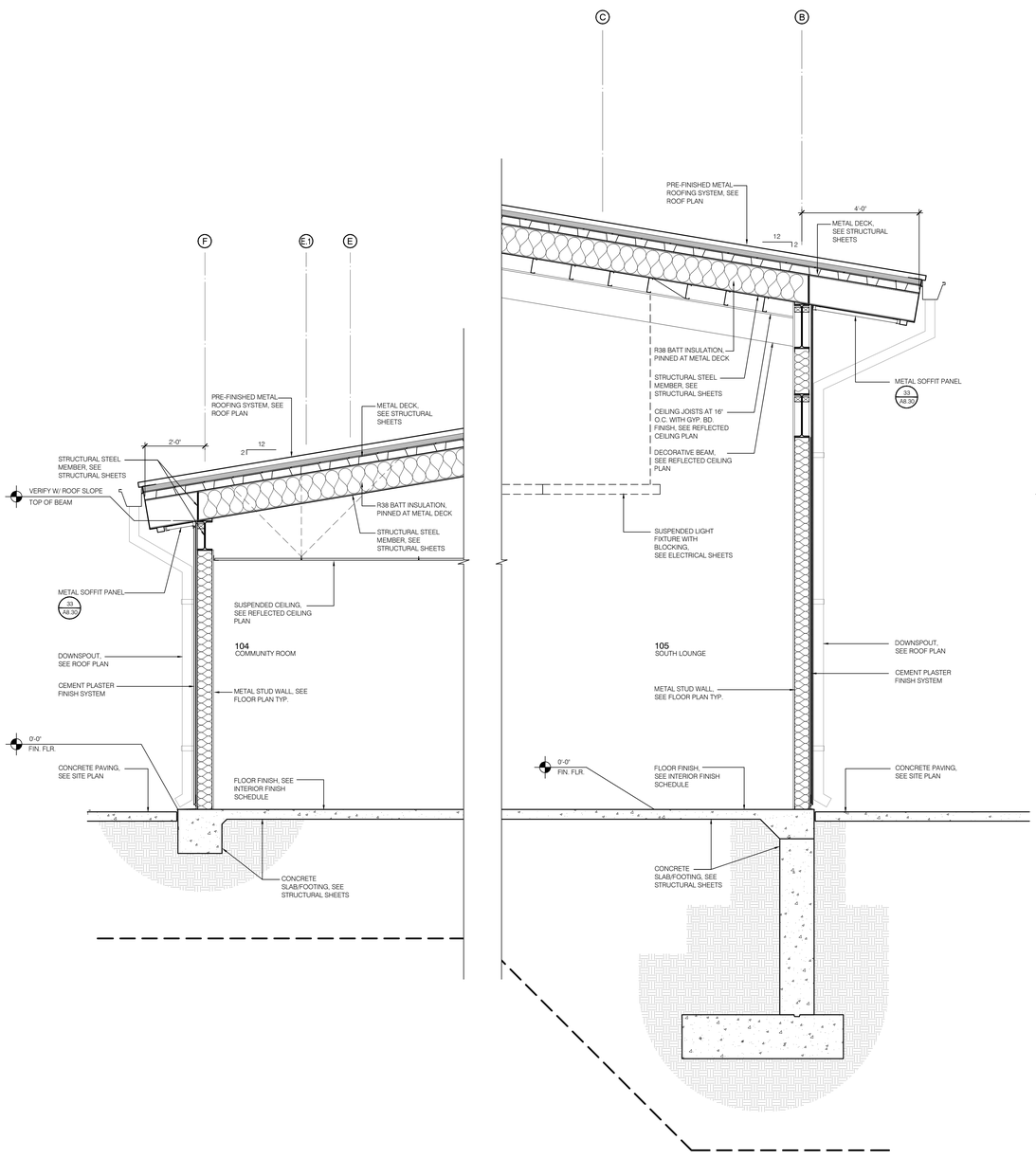
WALL SECTIONS

A4.13

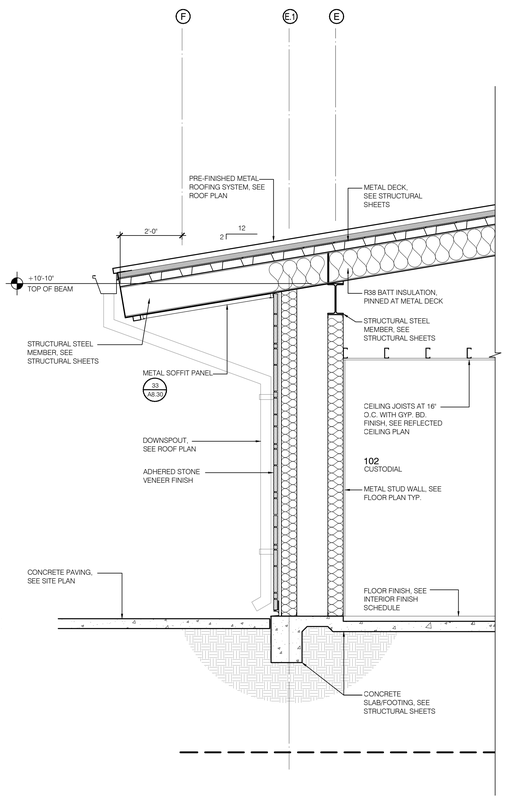


12. Wall Section

Scale: 1/2" = 1'-0"

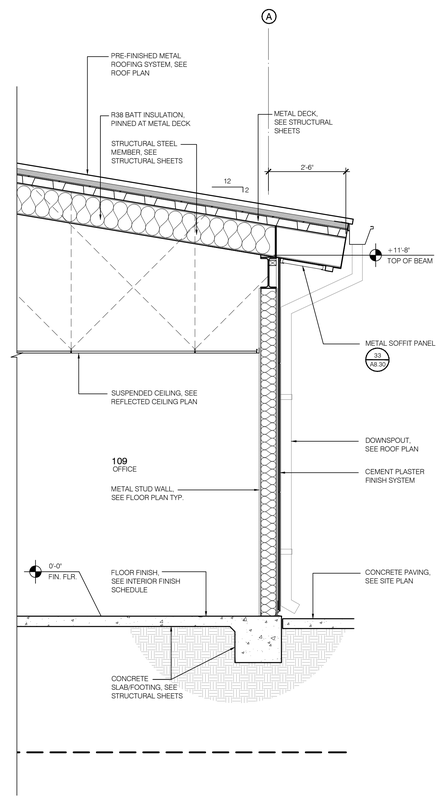
11. Wall Section

Scale: 1/2" = 1'-0"



10. Wall Section

Scale: 1/2" = 1'-0"



9. Wall Section

Scale: 1/2" = 1'-0"

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ARCHITECT C-19670

CONSULTANT

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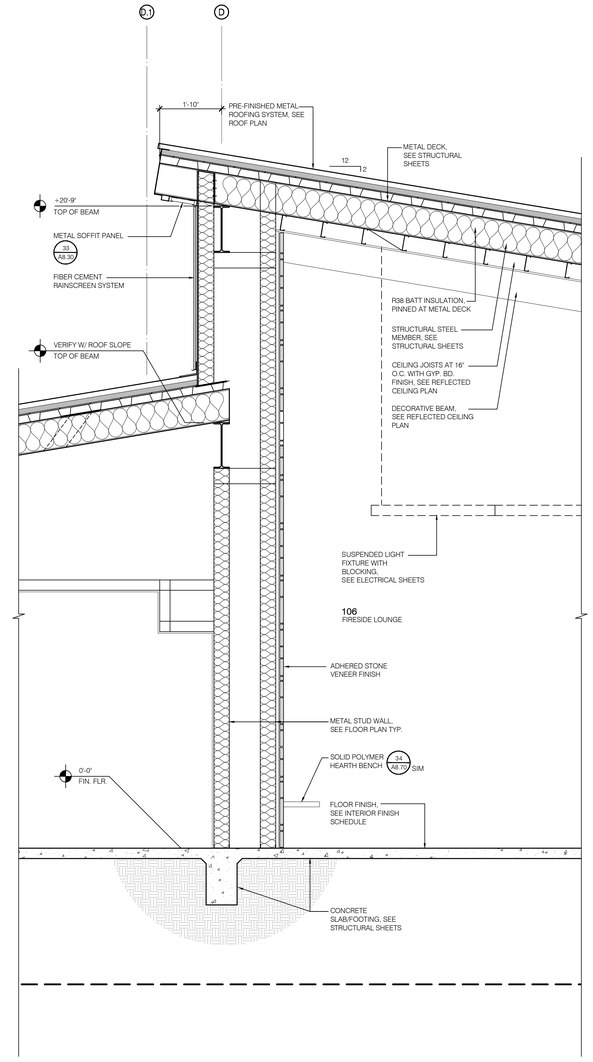
WALL SECTIONS

A4.14



13. Wall Section

Scale: 1/2" = 1'-0"

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FOGARTY
C-19670
EXP. 08-31-25
STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.01.23

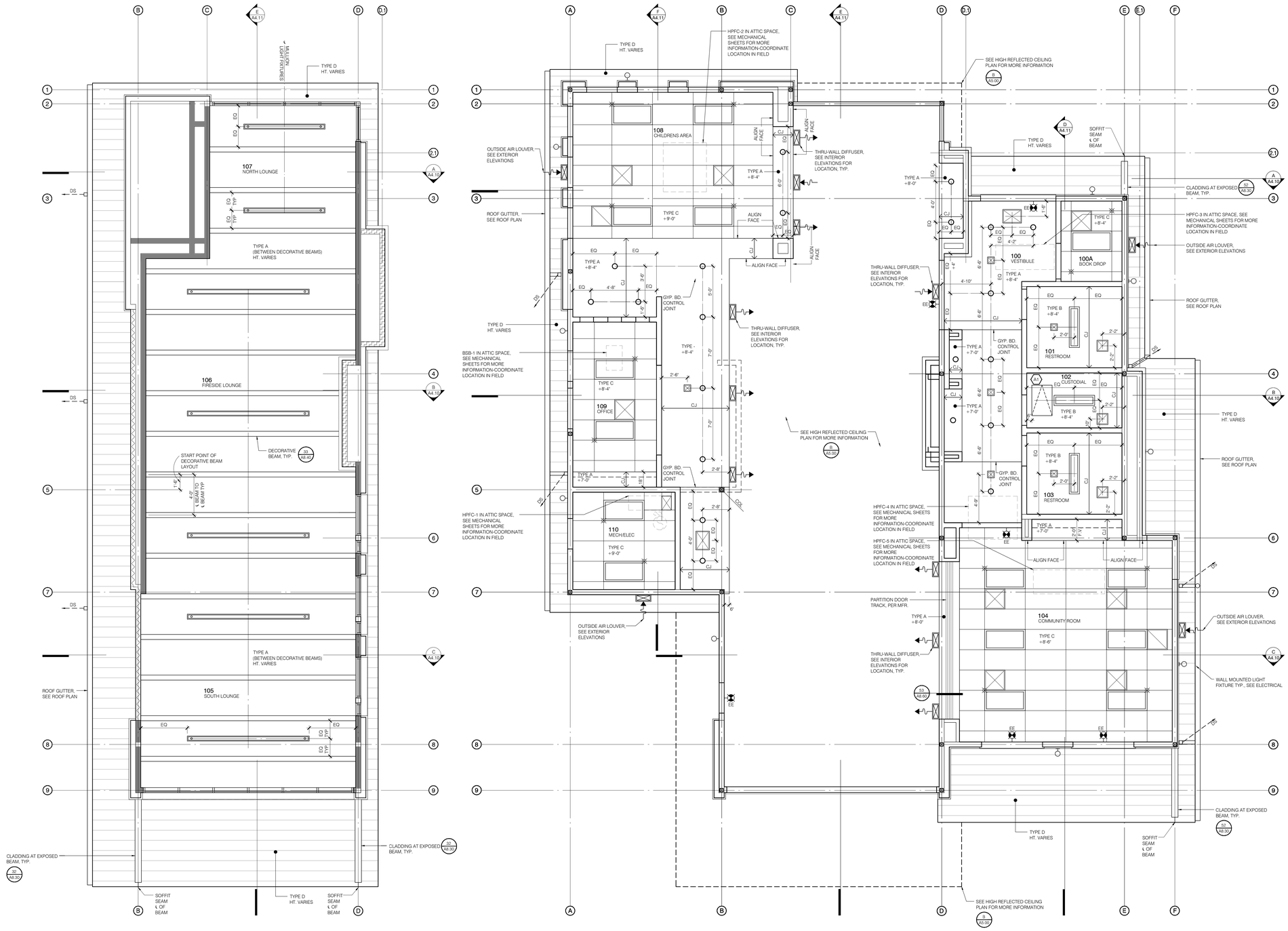
REVISIONS

No	Date	Item

10.26.23 13:11

WALL SECTIONS

A4.15



B. High Reflected Ceiling Plan

Scale: 1/4" = 1'-0"

A. Low Reflected Ceiling Plan

Scale: 1/4" = 1'-0"

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE REFLECTED CEILING PLAN AND AT THE DIRECTION OF THE ARCHITECT.
2. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL AIR-CONDITIONING GRILLES WITH LIGHT FIXTURE LAYOUTS, REFLECTED CEILING PLAN AND AT THE DIRECTION OF THE ARCHITECT.
3. REFER TO MECHANICAL DRAWINGS FOR SIZE, TYPE AND LOCATION OF ALL HVAC GRILLES, EXHAUST FANS AND OTHER MECHANICAL EQUIPMENT LOCATED IN THE CEILING.

3.1. ENVELOPE INSULATION: WALLS-SEE SECTIONS/DETAILS FOR ATTICS/CAVITIES TO BE INSULATED. WALLS SHALL HAVE THERMAL BATTS AT ALL EXTERIOR WALLS. SEE FLOOR PLAN FOR SOUND INSULATION. INTENT IS TO INSULATE ENTIRE ENVELOPE EXCEPT GLAZING/ DOORS UNO. PROVIDE ATTIC WALL INSULATION IF INSULATION IS PROVIDED AT ROOF LINE. SEE SECTION(S) FOR ADDITIONAL INFORMATION.

3.2. PROVIDE FIRE DAMPERS AT ALL MECH PENETRATIONS OF RATED CLGS AND WALLS. PROVIDE 1 HR. FIRE PROTECTION ABOVE ALL CLGS AT LIGHT FIXTURES OF RATED CLGS. METHOD SHALL BE APPROVED METHODS BY BUILDING DEPARTMENT. CONTRACTOR SHALL SUBMIT ASSEMBLY FOR REVIEW PRIOR TO BIDDING.

4. SURFACE MTD, RECESSED AND SUSPENDED LIGHT FIXTURES SHALL BE LOCATED EQUALLY BETWEEN OPPOSITE WALLS UNO.
5. HVAC REGISTERS AND GRILLES SHALL BE LOCATED EQUALLY BETWEEN OPPOSITE WALLS UNO.
6. CEILING HEIGHTS NOTED ARE TO BOTTOM OF CEILING FINISH UNO.

CEILING TYPE LEGEND

TYPE	DESCRIPTION	DTL
TYPE A	5/8" GYP BD-TAPE, TEXTURE AND PAINT 100% ACRYLIC ENAMEL EGGSHELL- LEVEL 4 FINISH	
TYPE B	5/8" GYP BD - TAPE, TEXTURE AND PAINT 100% ACRYLIC ENAMEL SEMI GLOSS - LEVEL 4 FINISH	
TYPE C	24x48 CEILING GRID W/ ANGELED TEGULAR ACOUSTICAL PANELS, "ARMSTRONG DUNE- 1774" WITH "ARMSTRONG SUPRAFINE XL GRID"	S1 A8.40
TYPE D	METAL SOFFIT PANELS - EXTERIOR	S3 A8.50

CEILING SYMBOL LEGEND

	24X48 ACOUSTICAL CEILING TILE
℄ EA WAY	24X48 SUSPENDED LED LIGHT FIXTURE, SEE ELECTRICAL SHEETS
℄ EA WAY	SURFACE MOUNTED LED LIGHT FIXTURE, SEE ELECTRICAL SHEETS
℄ EA WAY	RECESSED LIGHT FIXTURE, SEE ELECTRICAL SHEETS
	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL SHEETS/ELEVATIONS
	SUSPENDED LIGHT FIXTURE, SEE ELECTRICAL SHEETS
	SUPPLY AIR GRILLE/REGISTER/DIFFUSER. SEE MECHANICAL SHEETS
	RETURN AIR GRILLE. SEE MECHANICAL SHEETS
	EXHAUST AIR GRILLE. SEE MECHANICAL SHEETS
	SIDEWALL DIFFUSER, SEE MECHANICAL SHEETS/INTERIOR/EXTERIOR ELEVATIONS FOR LOCATION
	BRACING AND COMPRESSION STRUT LOCATION (MINIMUM LOCATIONS) S1 A8.40
EE	EMERGENCY EXIT FIXTURE, SEE ELECTRICAL SHEETS
	FULL HEIGHT WALL, NON-RATED
#	CEILING ACCESSORY, SEE SHEET A2.00
#	CEILING ACCESS DOOR, SEE A2.00
RD	ROOF DOWNSPOUT, SEE PLANS

METAL CEILING JOISTS

THE DIRECTION OF SPAN FOR CEILING JOISTS ARE AS INDICATED:

CJ

SEE STRUCTURAL SHEET FOR TYPICAL DETAILS AND SIZES

S SD-1

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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY C-19670 10-30-25 STATE OF CALIFORNIA

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PROJECT INFO

Project No	569-0003
Date	11.01.23

REVISIONS

No	Date	Item

10.26.23 14:03

REFLECTED CEILING PLANS

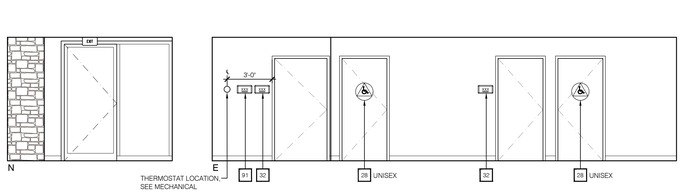
A5.00

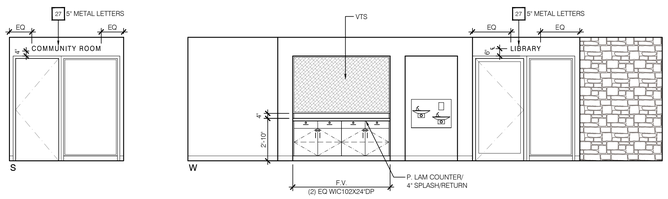
GENERAL NOTES

1. SEE SCHEDULES ON SHEET A2.00 FOR ADDITIONAL INFO./REQS.
2. ## SEE ACCESSORY SCHEDULE ON SHT A2.00.
3. SEE SHEET A8.00 FOR REQUIRED ACCESSIBLE MOUNTING AND LOCATION REQUIREMENTS REGARDING PLUMBING FIXTURES AND ACCESSORIES.
4. SEE SPECIFICATION SECTION 'CERAMIC TILING' FOR PRODUCT AND LOCATION INFORMATION FOR METAL STRIPS AT TILE INTERSECTIONS.
5. SEE MECHANICAL/PLUMBING/ELECTRICAL SHEETS FOR ADDITIONAL SCOPE OF WORK AT WALLS.

TYPICAL DETAILS

29 / A8.00	ACCESSIBLE COUNTER LAV REFERENCE	26 / A8.00	ACCESSIBLE UNISEX RESTROOM REFERENCE
33 / A8.01	TYPICAL CABINET MOUNTING REFERENCE	14 / A8.02	TYPICAL DOOR SIGN INSTALLATION
44 / A8.00	ACCESSORY MOUNTING HEIGHTS	53 / A8.20	FLUSH METAL BACKING
15 / A8.00	ACCESSORY SINK AT COUNTER REFERENCE	54 / A8.20	RECESSED METAL BACKING

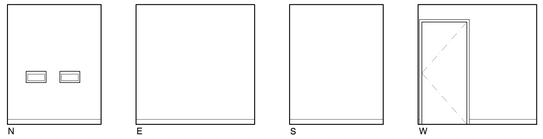


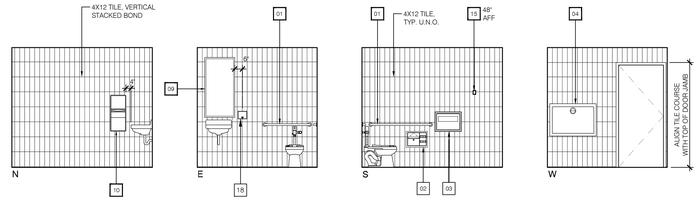


100 Entry Vestibule

Scale: 1/4" = 1'-0"

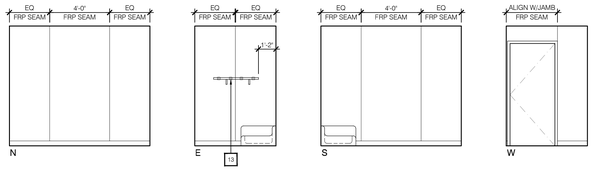
*P. LAM COUNTER/SPLASH/RETURN





100A Book Drop

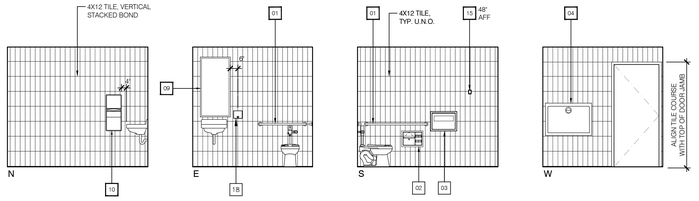
Scale: 1/4" = 1'-0"



101 Restroom

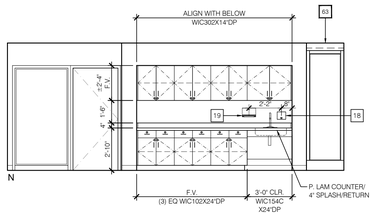
Scale: 1/4" = 1'-0"

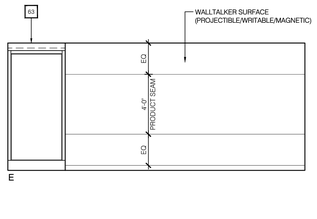
*P. LAM COUNTER/SPLASH/RETURN



102 Custodial

Scale: 1/4" = 1'-0"

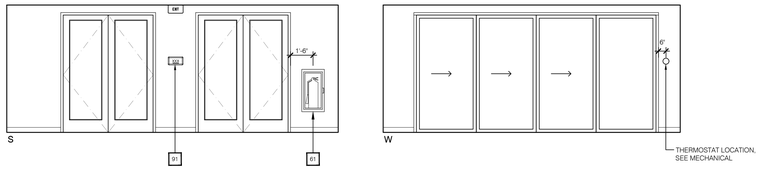




103 Restroom

Scale: 1/4" = 1'-0"

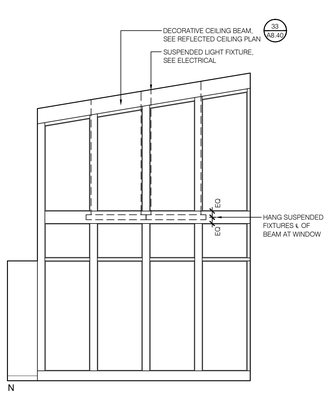
*P. LAM COUNTER/SPLASH/RETURN

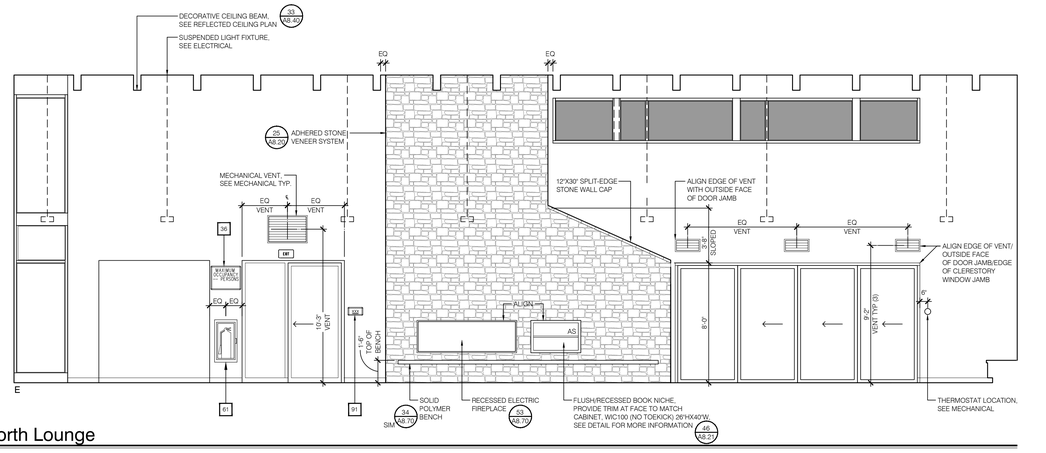


104 Community Room

Scale: 1/4" = 1'-0"

*P. LAM COUNTER/SPLASH/RETURN





105 South Lounge/106 Fireside Lounge/107 North Lounge

Scale: 1/4" = 1'-0"

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CONSULTANT

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PROJECT INFO

Project No	569-0003
Date	11.01.23

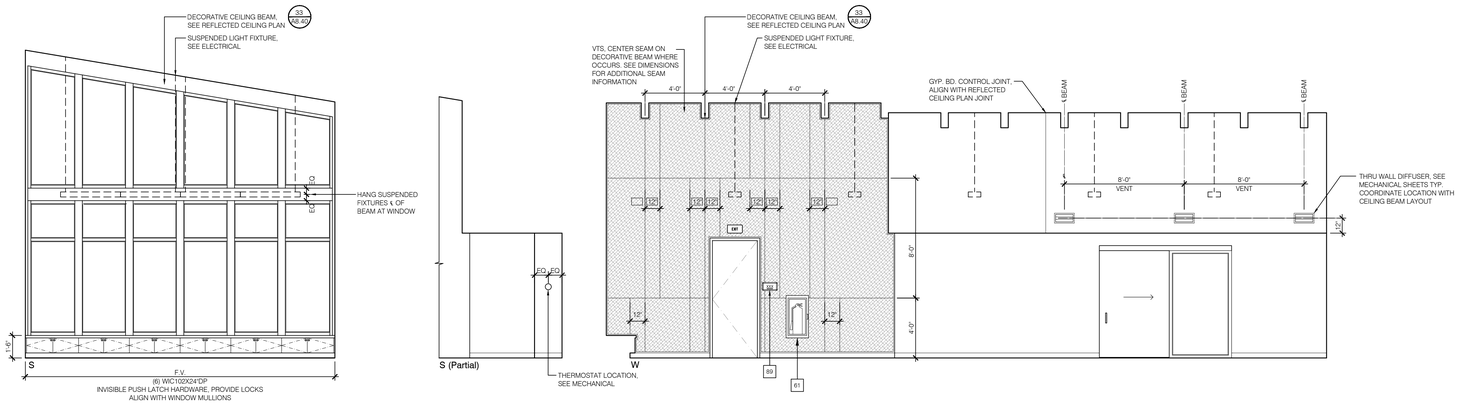
REVISIONS

No	Date	Item

10.26.23 14:31

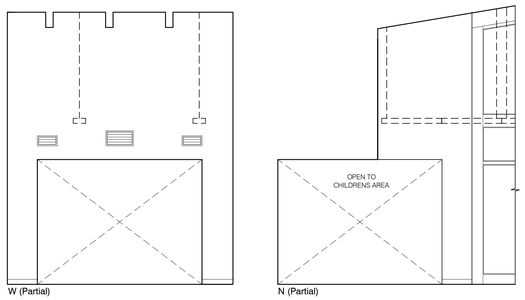
INTERIOR ELEVATIONS

A6.00



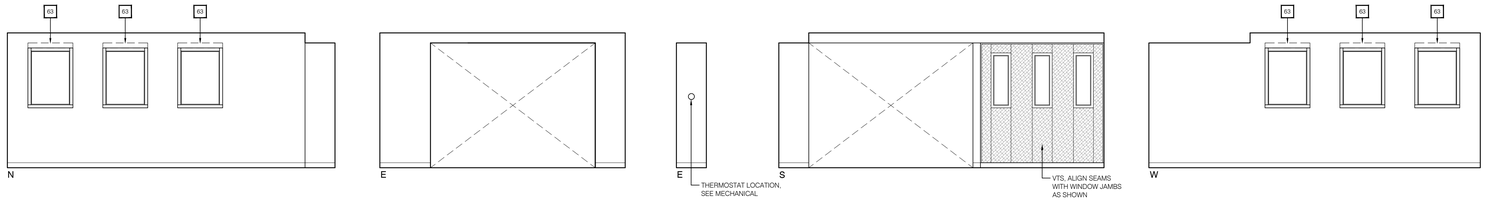
105 South Lounge/106 Fireside Lounge/107 North Lounge

Scale: 1/4" = 1'-0"



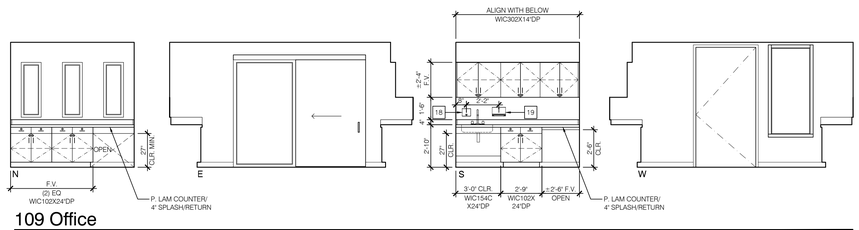
105 South Lounge/106 Fireside Lounge/107 North Lounge

Scale: 1/4" = 1'-0"



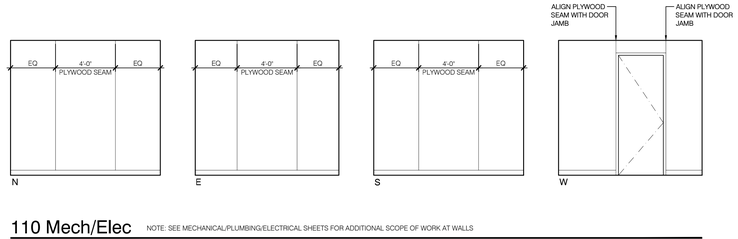
108 Children's Area

Scale: 1/4" = 1'-0"



109 Office

Scale: 1/4" = 1'-0"



110 Mech/Elec

NOTE: SEE MECHANICAL/PLUMBING/ELECTRICAL SHEETS FOR ADDITIONAL SCOPE OF WORK AT WALLS

Scale: 1/4" = 1'-0"

GENERAL NOTES

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2. F# SEE ACCESSORY SCHEDULE ON SHT A2.00.
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33 A8.00	TYPICAL CABINET MOUNTING REFERENCE	14 A8.00	TYPICAL DOOR SIGN INSTALLATION
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Project No	569-0003
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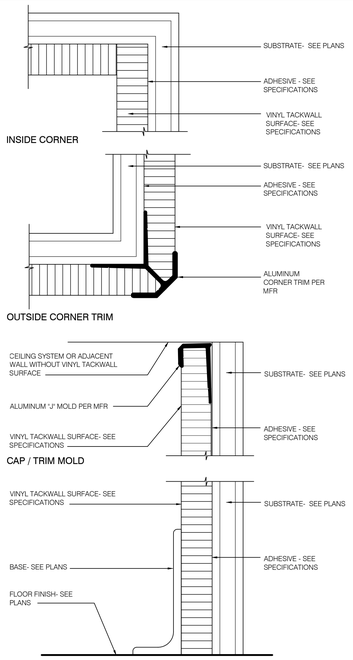
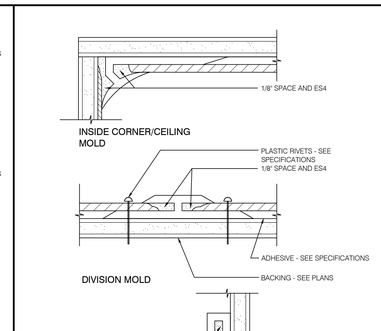
10:26:23 14:36

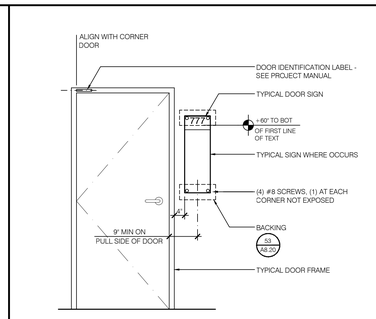
INTERIOR ELEVATIONS

A6.01

11 NOT USED

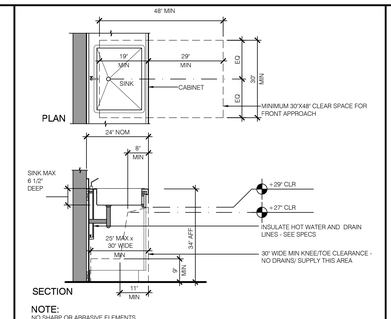






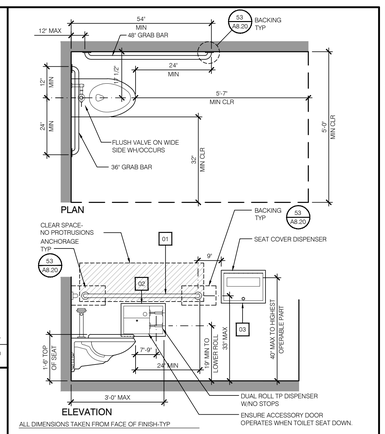
10-04-05

14 TYPICAL DOOR SIGN INSTALLATION : 1/2"



06-05-12

15 ACCESSIBLE SINK AT CABINET REFERENCE : 1/2"



ALL DIMENSIONS TAKEN FROM FACE OF FINISH-TYP

GRAB BAR NOTES:

1. GRAB BARS DIA OR WIDTH OF GRIPPING SURFACE IS REQUIRE TO BE 1 1/2" OUTSIDE DIA.
2. THE SPACE BETWEEN WALL FIN AND BAR IS TO BE 1 1/2" CLR.
3. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
4. GRAB BARS AND ANY ADJACENT SURFACE SHALL NOT HAVE ANY SHARP OR ABRASIVE ELEMENTS, EDGES ARE TO HAVE A MINIMUM RADIUS OF 1/8".
5. BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF A 250 LBS POINT LOAD SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MTL OF THE GRAB BAR OR SEAT.
6. SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF A 250 LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MTL OF THE GRAB BAR OR SEAT, AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
7. SHEAR FORCE INDUCED IN FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF A 250 LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE WHICHEVER IS THE SMALLER ALLOWABLE LOAD.
8. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT MOMENT FROM THE APPLICATION OF A 250 LB POINT LOAD, SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND SUPPORTING STRUCTURE.
9. ACCESSORIES/DISPENSERS TO BE NO CLOSER THAN 1 1/2" BELOW, 1 1/2" AT ENDS AND 18" ABOVE GRAB BARS EXCEPT IF ACCESSORIES ARE RECESSED. FLUSH W/ WALL, AND HAVE NO SHARP EDGES.

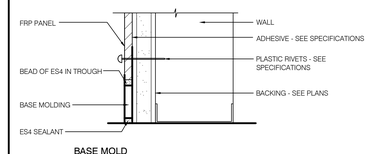
10-05-11 Ax.xx

21 NOT USED

22 VINYL TACKWALL SURFACE DETAILS : NTS

09-09-01

23 TYPICAL FRP DETAILS : NTS



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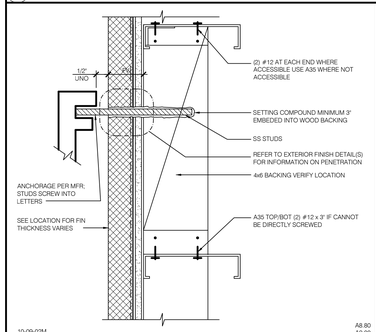
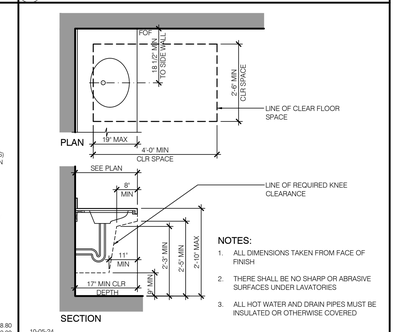


10-09-02M

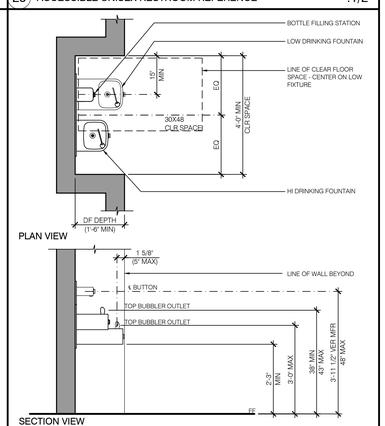
A8.80
A2.00

24 METAL LETTER BACKING : 3"



10-05-24

25 ACCESSIBLE COUNTER LAV REFERENCE : 1/2"



NOTE:

1. THIS DETAIL SHOWS MINIMUM AND MAXIMUM DIMENSIONS - SEE PLANS FOR ACTUAL DIMENSIONS WHICH VARY WITHIN THESE GUIDELINES
2. DF ACTIVATOR MUST BE WITHIN 6" OF THE FRONT EDGE OF THE DF.
3. SPOUT MUST PROVIDE A FLOW OF WATER AT LEAST 4" HIGH.
4. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL NOT EXCEED 5 LBF.
5. ALL DIMENSION TAKEN FROM FOF.
6. VERIFY DIMENSIONS WITH MFR FOR ADA COMPLIANCE.
7. DF SHALL BE LOCATED COMPLETELY W/IN ALCOVE.

10-05-33M

A8.10
A2.30

26 ACCESSIBLE UNISEX RESTROOM REFERENCE :1/2"

31 NOT USED

32 NOT USED

FINISH NOTES:

1. SET SCREWS FLUSH WITH SURFACE- PLYTEKS 14-20X2-3/4" SCREWS
2. PAINT PLYWOOD AFTER INSTALLATION.
3. PATCH PLYWOOD IMPERFECTIONS, SAND TO MATCH ADJACENT PLYWOOD
4. 2" x #8 SCREWS AT 8" OC FIELD AND PERIMETER; ALIGN ALL SCREW HEADS ± 1/4" DEVIATION
5. SET AND PUTTY NAILS
6. PLYWOOD -AC QUALITY -3/4"

41 NOT USED

42 NOT USED

43 TYPICAL PLYWOOD JOINT DETAILS : NTS

NOTE:

ALL DIMENSIONS TAKEN FROM FACE OF FINISH

10-05-03M

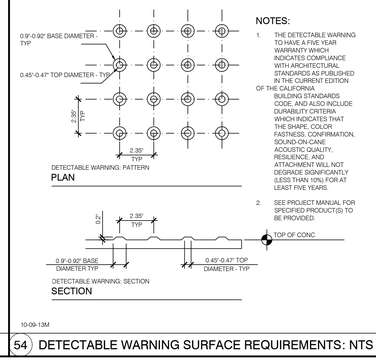
A2.30

: 3/4"

51 NOT USED

52 NOT USED

53 NOT USED

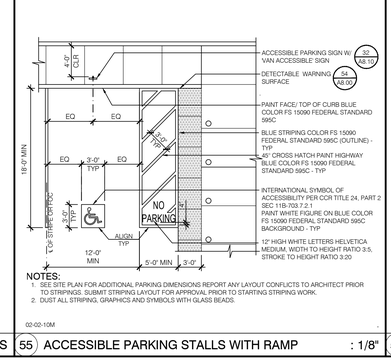


NOTES:

1. THE DETECTABLE WARNING TO HAVE A FIVE YEAR WARRANTY WHICH INDICATES COMPLIANCE WITH ARCHITECTURAL STANDARDS AS PUBLISHED IN THE CURRENT EDITION OF THE CALIFORNIA BUILDING STANDARDS CODE, AND ALSO INCLUDE DURABILITY CRITERIA WHICH INDICATES THAT THE SHAPE, COLOR FASTNESS, CONFIRMATION, SOUND-ON-CANE ACOUSTIC QUALITY, RESILIENCE, AND ATTACHMENT WILL NOT DEGRADE SIGNIFICANTLY (LESS THAN 10%) FOR AT LEAST FIVE YEARS.
2. SEE PROJECT MANUAL FOR SPECIFIED PRODUCT(S) TO BE PROVIDED.

10-09-13M

54 DETECTABLE WARNING SURFACE REQUIREMENTS: NTS

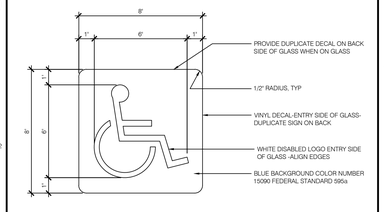


NOTES:

1. SEE SITE PLAN FOR ADDITIONAL PARKING DIMENSIONS REPORT ANY LAYOUT CONFLICTS TO ARCHITECT PRIOR TO STRIPINGS. SUBMIT STRIPING LAYOUT FOR APPROVAL PRIOR TO STARTING STRIPING WORK.
2. DUST ALL STRIPING, GRAPHICS AND SYMBOLS WITH GLASS BEADS.

02-02-10M

55 ACCESSIBLE PARKING STALLS WITH RAMP : 1/8"



39

10-04-46

A2.00

56 ACCESSIBLE SIGN AT BUILDING : 3"

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COUNTY OF TULARE LIBRARY SPRINGVILLE BRANCH

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY No. C-19670 REN: 08-31-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.01.23

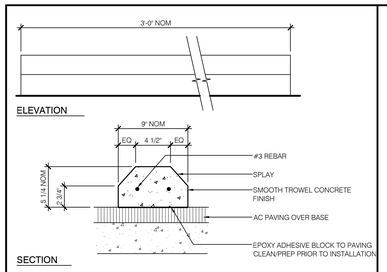
REVISIONS

No	Date	Item

10.26.23 10:31

DETAILS

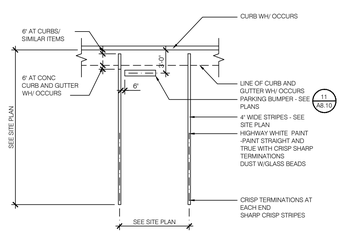
A8.00



NOTE:
PROVIDE BUMPERS WHERE NOTED ON SITE PLAN. PAINT DISABLED BLUE, #15090 FED STDS 595A AT ACCESSIBLE STALLS, TYP

02-01-06 A1.20

11 CONCRETE BUMPER : 1 1/2"



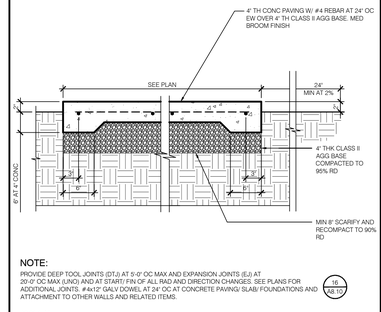
NOTES:
1. SEE SITE PLAN FOR ADDITIONAL PARKING DIMENSIONS REPORT ANY LAYOUT CONFLICTS TO ARCHITECT PRIOR TO STRIPING. SUBMIT STRIPING LAYOUT FOR APPROVAL PRIOR TO STARTING STRIPING WORK.
2. DUST ALL STRIPING W/ GLASS BEADS

02-02-04M A1.20

12 PARKING STALL LAYOUT : 1/8"

13 NOT USED

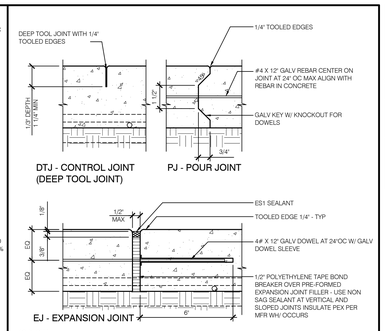
14 NOT USED



NOTE:
PROVIDE DEEP TOOL JOINTS (DTJ) AT 5'-0" OC MAX AND EXPANSION JOINTS (EJ) AT 20'-0" OC MAX (UNO) AND AT START/ FIN OF ALL RAD AND DIRECTION CHANGES. SEE PLANS FOR ADDITIONAL JOINTS. # 4x12" GALV DOWEL AT 24" OC AT CONCRETE PAVING/ SLAB/ FOUNDATIONS AND ATTACHMENT TO OTHER WALLS AND RELATED ITEMS. 15 A8.10

02-01-04M

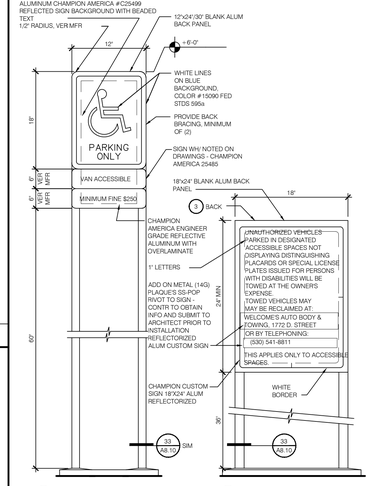
15 CONCRETE PAVING : 1"



02-01-05M

16 TYP JOINTS AT CONCRETE - SITE : 3"

21 NOT USED

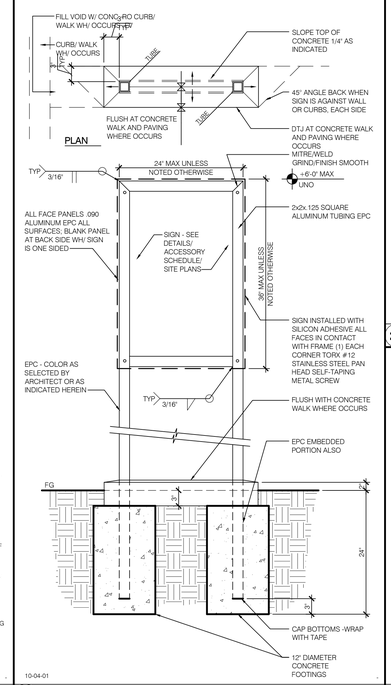


SIGN AND IDENTIFICATION NOTES:
1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USE TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY A PHYSICALLY DISABLED PERSON. THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR FS 15090 FEDERAL STANDARD 595C.
2. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON DARK BACKGROUND, OR DARK CHARACTERS ON LIGHT BACKGROUND.
3. PAVEMENT MARKINGS REQUIRED AT ACCESSIBLE PARKING STALLS.

INTERNATIONAL SYMBOL OF ACCESSIBILITY NOTES:
1. POST A PERMANENT 18"x24' SIGN IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFFSTREET PARKING FACILITIES WITH UNAUTHORIZED VEHICLE SIGN. SEE SITE PLAN FOR LOCATIONS.
2. 3x3' SURFACE IDENTIFICATION AT ALL ACCESSIBLE PARKING STALLS.

10-04-02M

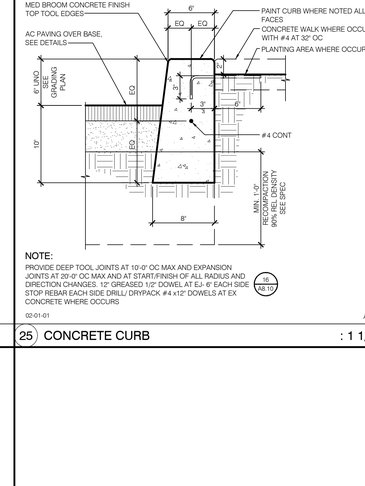
32 ACCESSIBLE PARKING SIGNS : NTS



10-04-01

33 TYPICAL SIGN CONSTRUCTION : 1"

34 NOT USED

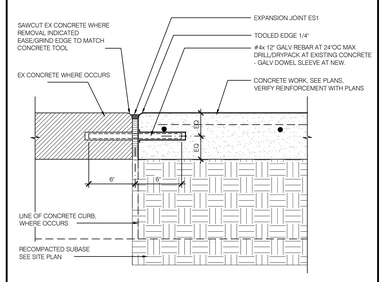


NOTE:
PROVIDE DEEP TOOL JOINTS AT 10'-0" OC MAX AND EXPANSION JOINTS AT 20'-0" OC MAX AND AT START/FINISH OF ALL RADIUS AND DIRECTION CHANGES. 12" GREASED 1/2" DOWEL AT EJ- 6" EACH SIDE STOP REBAR EACH SIDE DRILL/ DRYPACK #4 x12" DOWELS AT EX CONCRETE WHERE OCCURS 16 A8.10

02-01-01 A1.20

25 CONCRETE CURB : 1 1/2"

26 NOT USED

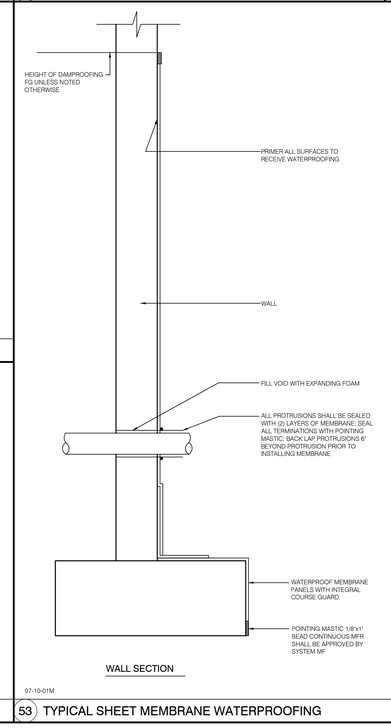


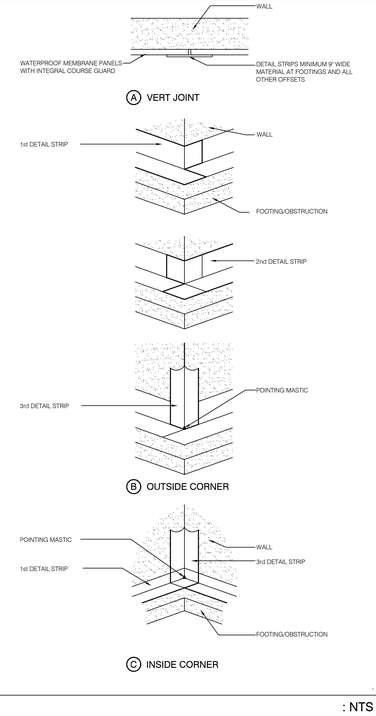
02-01-24

36 CONCRETE TO EXISTING CONCRETE : 1 1/2"

41 NOT USED

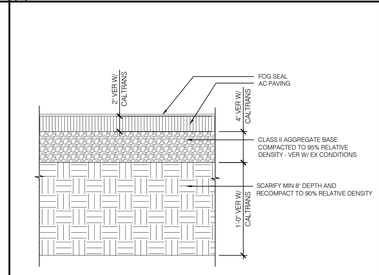
42 NOT USED





07-10-01M

53 TYPICAL SHEET MEMBRANE WATERPROOFING : NTS



02-02-14M A1.20

45 AC PAVING SECTIONS -CALTRANS STD : 1 1/2"

46 NOT USED

51 NOT USED

52 NOT USED

55 NOT USED

56 NOT USED

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PROJECT INFO

Project No	569-0003
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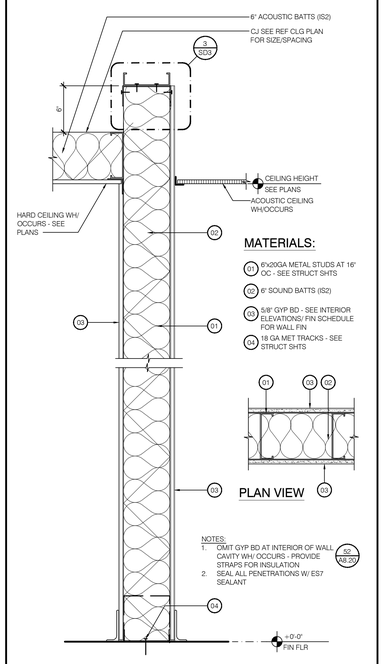
REVISIONS

No	Date	Item

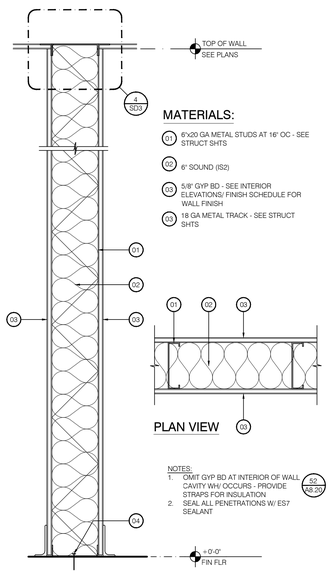
10.26.23 10:28

DETAILS

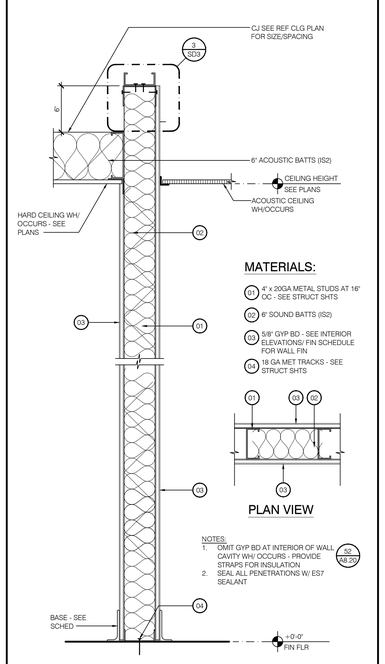
A8.10



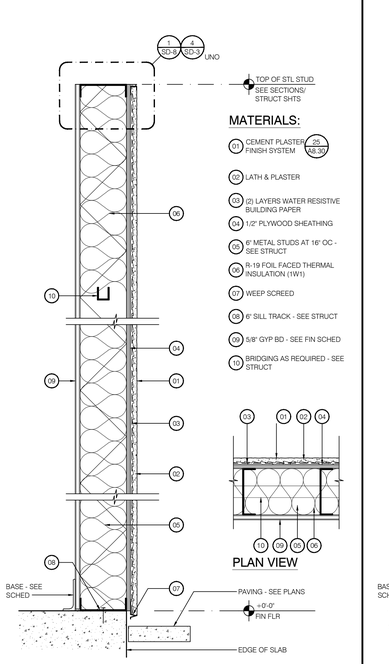
21 W6 - 6" INTERIOR WALL - PARTIAL HEIGHT : 1.1/2"



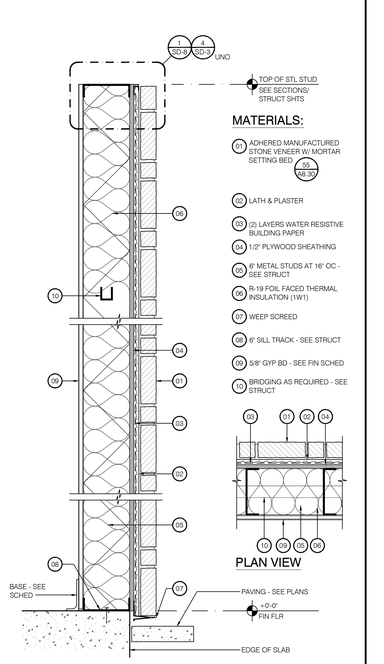
22 W5 - 6" INTERIOR WALL - FULL HEIGHT : 1 1/2"



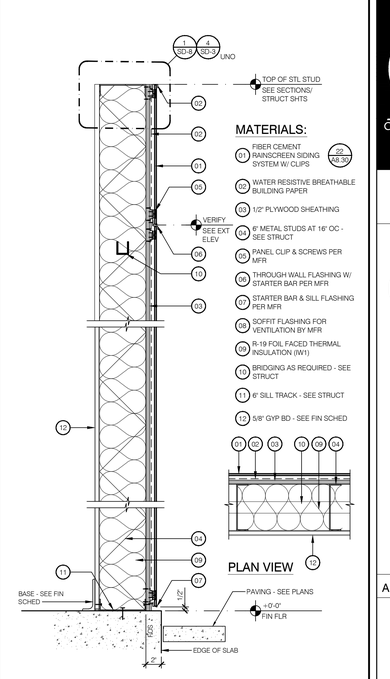
23 W4 - 4" INTERIOR WALL - PARTIAL HEIGHT : 1 1/2"



24 W3 - EXTERIOR WALL WITH STUCCO : 1 1/2"



25 W2 - EXTERIOR WALL WITH STONE VENEER : 1 1/2"



26 W1- EXTERIOR WALL WITH RAINSCREEN SYSTEM : 1 1/2"

31 NOT USED

32 NOT USED

33 NOT USED

34 NOT USED

35 NOT USED

36 NOT USED

41 NOT USED

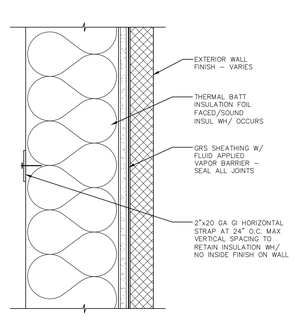
42 NOT USED

43 NOT USED

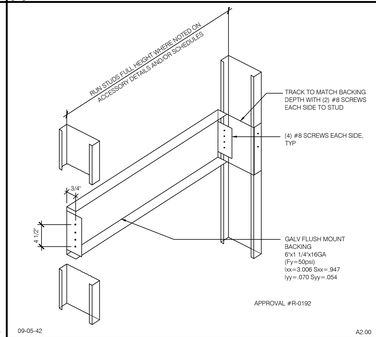
44 NOT USED

45 NOT USED

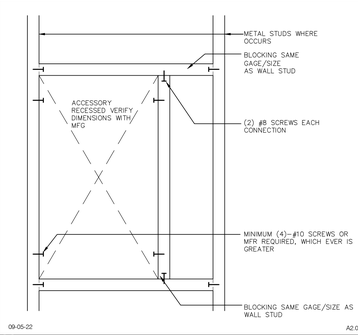
46 NOT USED



52 TYP INSULATION DETAIL : 3"



53 TYPICAL FLUSH MOUNT BACKING : NTS



54 TYPICAL ACC BACKING DETAIL RECESSED MTD : 1.1/2"

55 NOT USED

56 NOT USED

51 NOT USED

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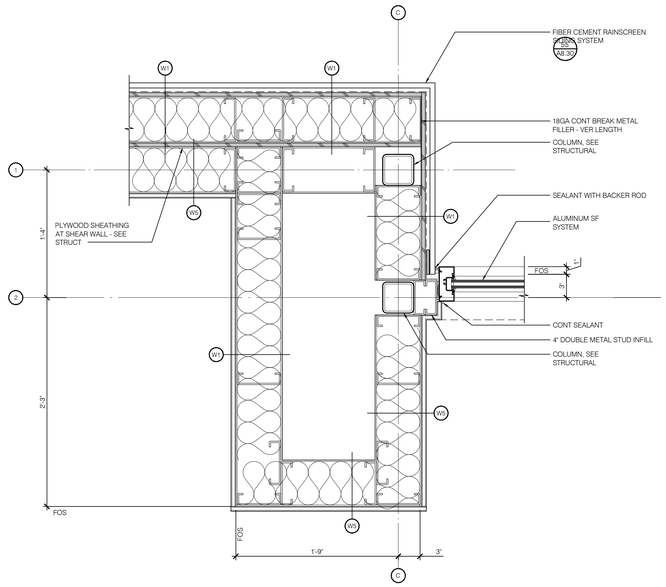
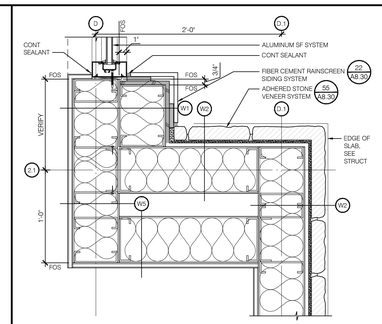
DETAILS

A8.20



A2.20

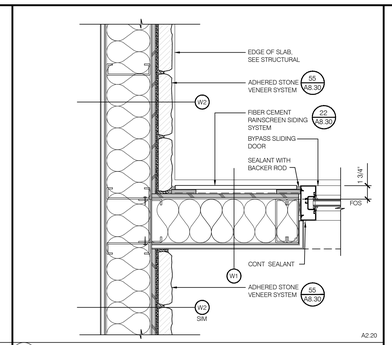
21 WALL DETAIL :1 1/2"



A2.20

13 WALL DETAIL :1 1/2"

14 NOT USED



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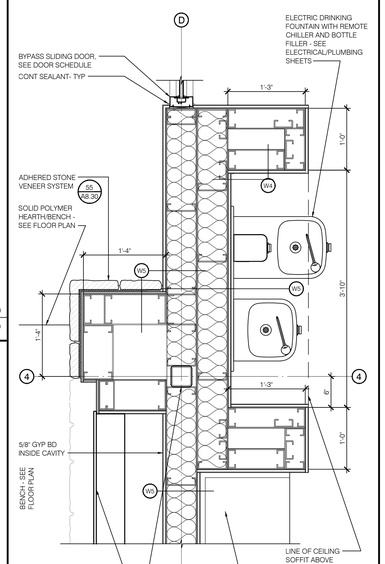
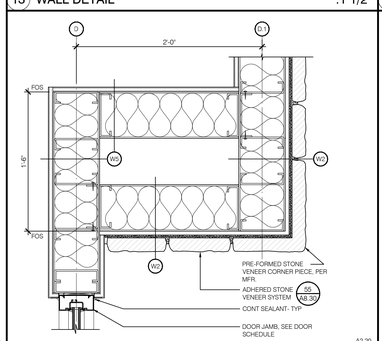
15 WALL DETAIL :1 1/2"



02-01-04 A2.20

26 WALL DETAIL : 1"



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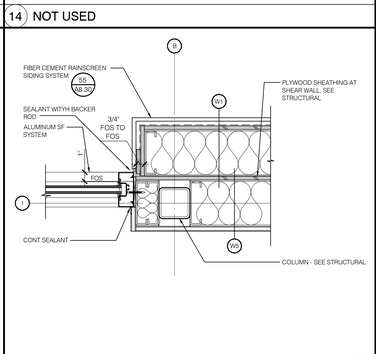
23 WALL DETAIL :1 1/2"



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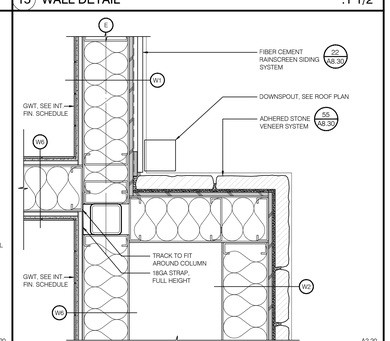
24 WALL DETAIL :1 1/2"

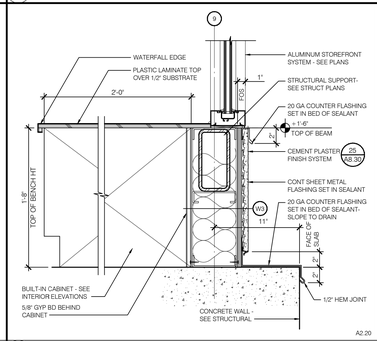


A2.20

25 WALL DETAIL :1 1/2"

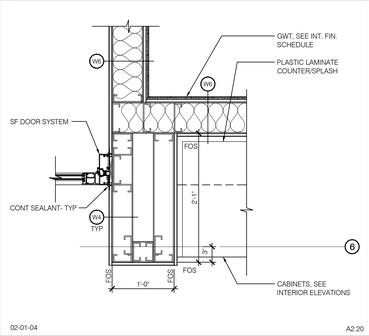
31 NOT USED

32 NOT USED



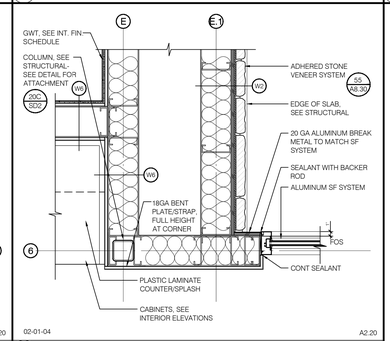
A2.20

33 BUILT-IN BENCH :1 1/2"



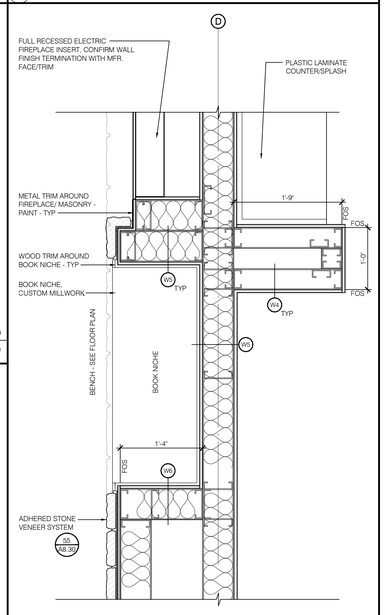
02-01-04 A2.20

34 WALL DETAIL : 1"



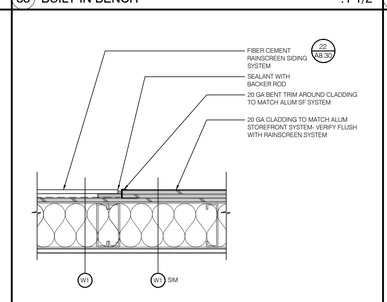
02-01-04 A2.20

35 WALL DETAIL : 1"



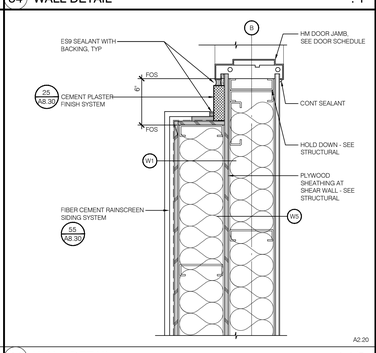
41 NOT USED

42 NOT USED



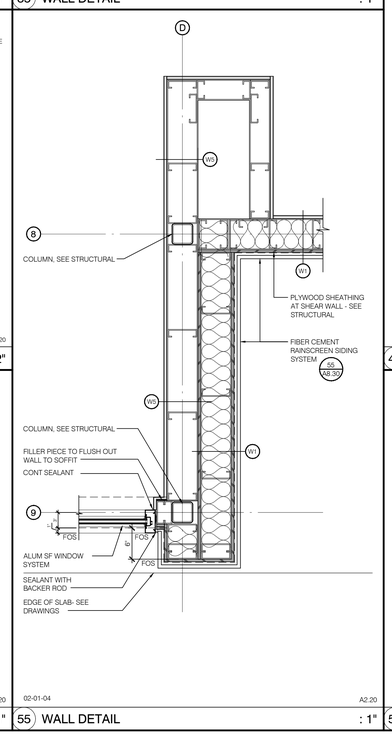
A2.20

43 WALL DETAIL :1 1/2"



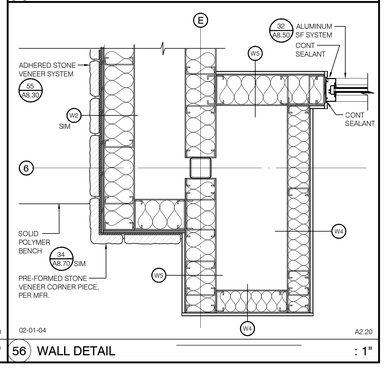
A2.20

44 WALL DETAIL :1 1/2"



02-01-04 A2.20

55 WALL DETAIL : 1"

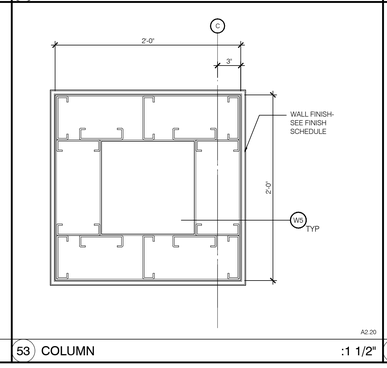


02-01-04 A2.20

56 WALL DETAIL : 1"

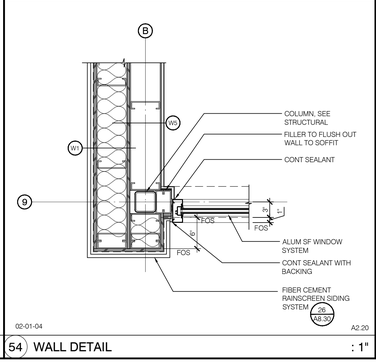
51 NOT USED

52 NOT USED



A2.20

53 COLUMN :1 1/2"



02-01-04 A2.20

54 WALL DETAIL : 1"

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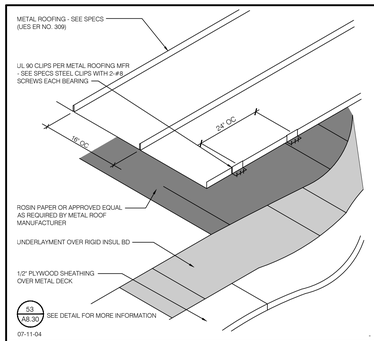
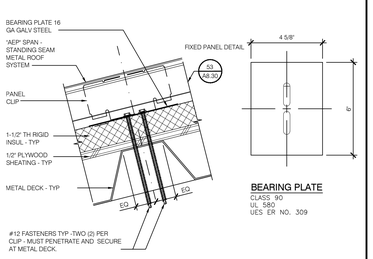
A8.21



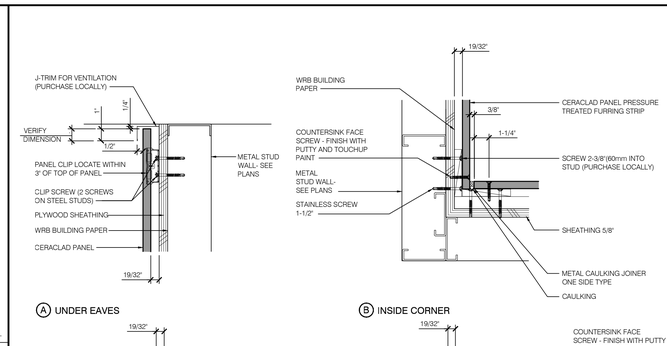
11 TYPICAL METAL ROOF : NTS



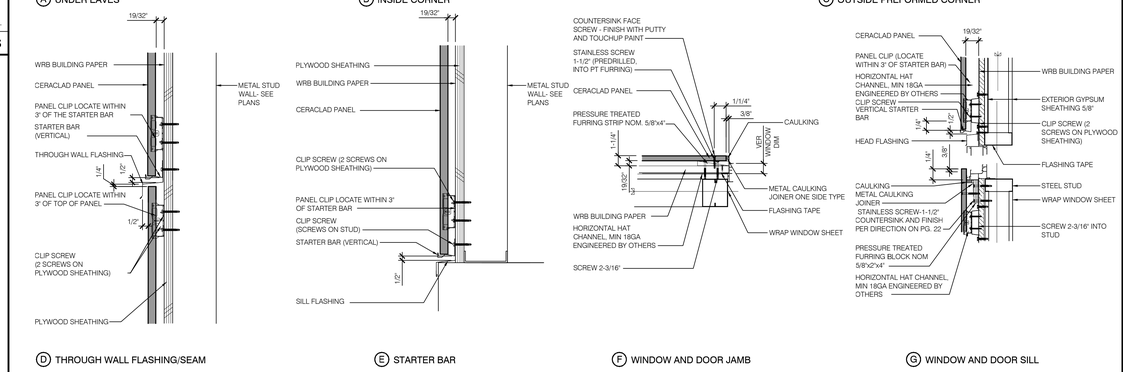
TYPICAL BEARING PLATE APPLICATION DETAIL

A8.30

21 METAL ROOF PANEL CLIP : 3"

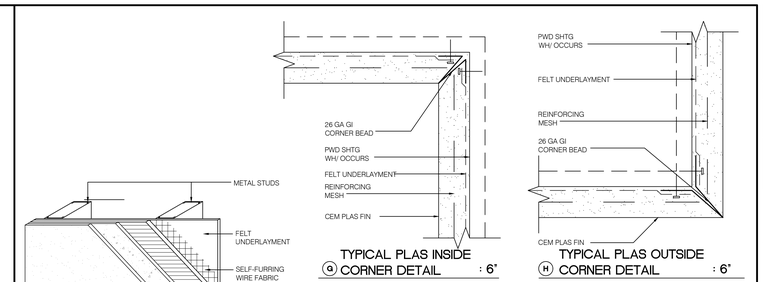


A UNDER EAVES B INSIDE CORNER C OUTSIDE PREFORMED CORNER



D THROUGH WALL FLASHING/SEAM E STARTER BAR F WINDOW AND DOOR JAMB G WINDOW AND DOOR SILL

22 FIBER CEMENT RAINSCREEN SIDING (WOOD LOOK) : 6"



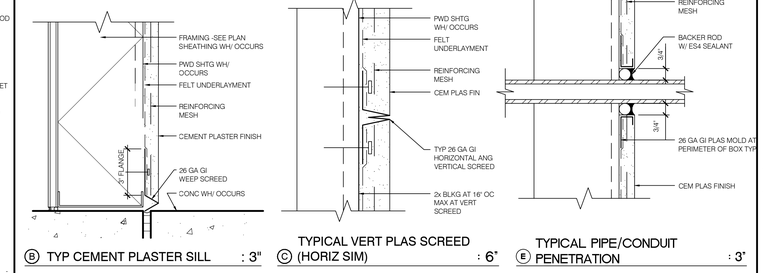
A TYPICAL CEMENT PLASTER SYSTEM : ISO

Q CORNER DETAIL : 6"

TYPICAL PLAS INSIDE

H CORNER DETAIL : 6"

TYPICAL PLAS OUTSIDE

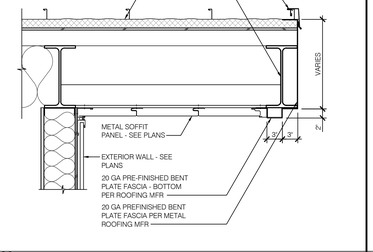


B TYP CEMENT PLASTER SILL : 3"

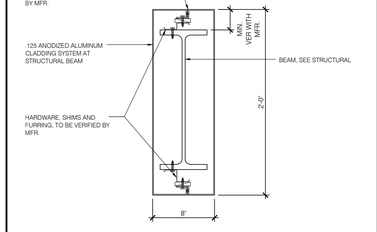
C TYPICAL VERT PLAS SCREED (HORIZ SIM) : 6"

E TYPICAL PIPE/CONDUIT PENETRATION : 3"

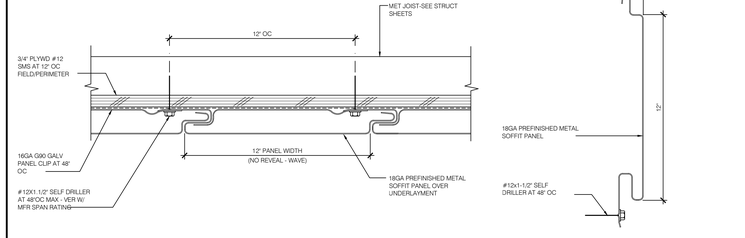
25 CEMENT PLASTER FINISH SYSTEM



31 METAL ROOF FASCIA AT RAKE : 1"

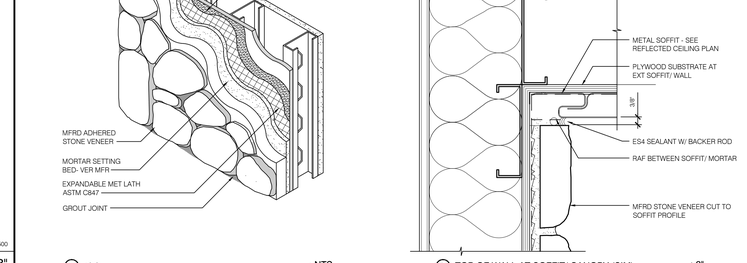


32 EXPOSED BEAM CLADDING :NTS



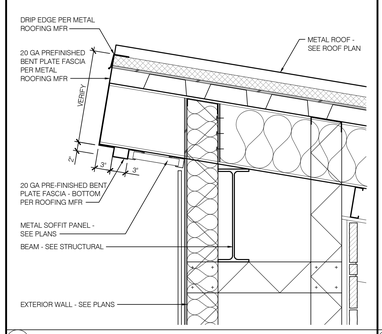
33 PRE-FINISHED METAL SOFFIT PANEL : 3"

A500



A ISO : NTS

D TOP OF WALL AT SOFFIT/ CANOPY (SIM) : 3"

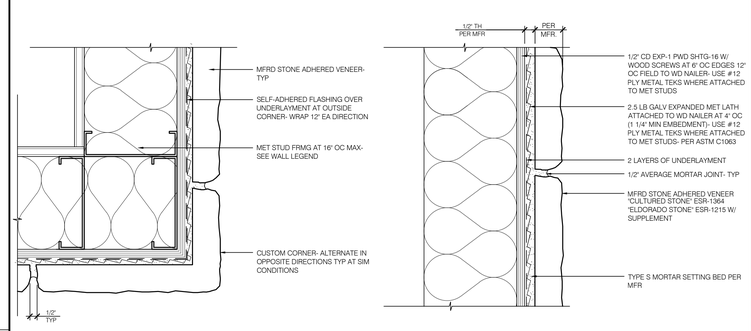


41 METAL ROOF FASCIA AT HIGH EAVES : 1"

42 NOT USED

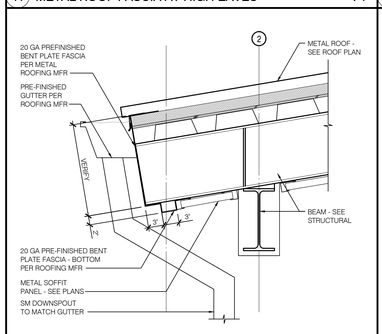
43 NOT USED

44 NOT USED

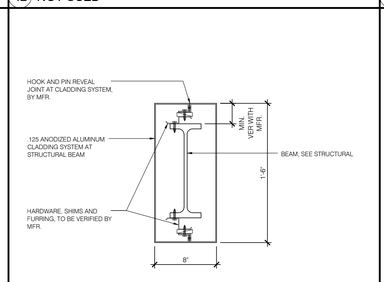


B OUTSIDE CORNER : 3"

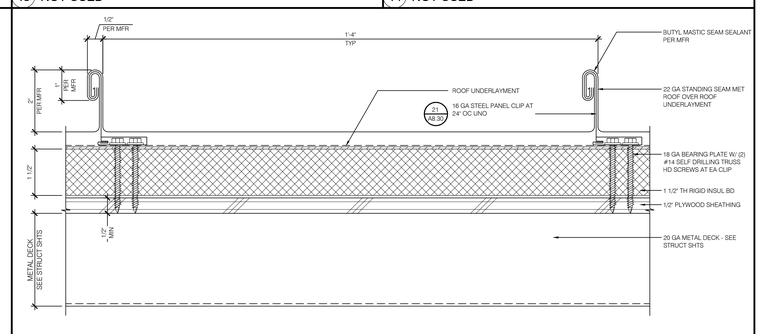
E WALL : 3"



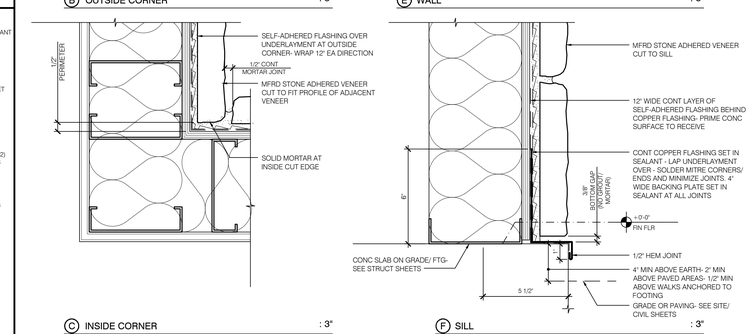
51 METAL ROOF FASCIA AT EAVES : 1"



52 EXPOSED BEAM CLADDING :NTS



53 STANDING SEAM METAL ROOF : 6"



C INSIDE CORNER : 3"

F SILL : 3"

55 ADHERED STONE VENEER : NTS

A4.00

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ARCHITECT

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.01.23

REVISIONS

No	Date	Item

10.26.23 10:22

DETAILS

A8.30

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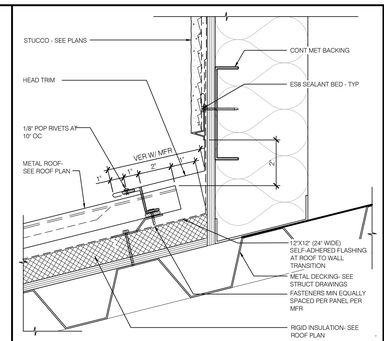
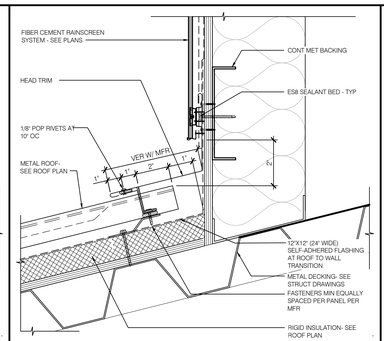
12 NOT USED

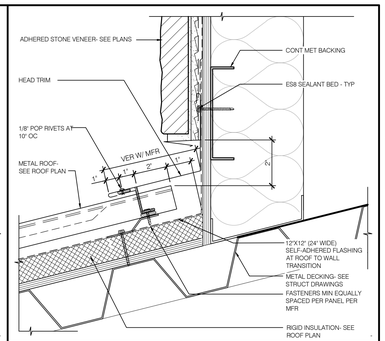
13 NOT USED



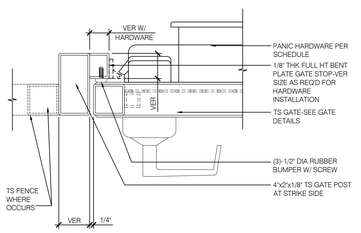
14 REGLET AT STUCCO : 3"



15 REGLET AT FIBER CEMENT RAINSCREEN : 3"

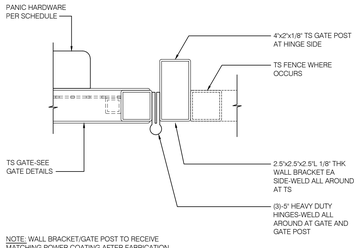


16 REGLET AT STONE VENEER : 3"



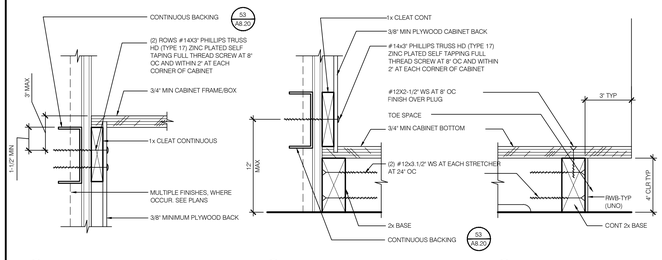
NOTE: WALL BRACKET/GATE POST TO RECEIVE MATCHING POWER COATING AFTER FABRICATION

21 TS GATE FRAME AT STRIKE : 3"



NOTE: WALL BRACKET/GATE POST TO RECEIVE MATCHING POWER COATING AFTER FABRICATION

22 TS GATE FRAME AT HINGE : 3"



A WALL CONNECTION :3"

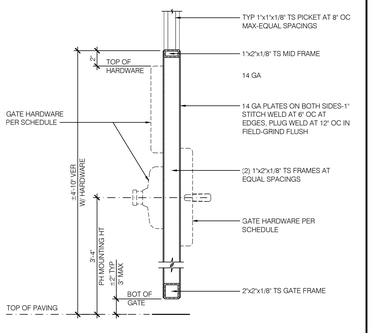
NOTE: MIN (4) FASTENERS PER CAB MODULE AT TOP AND BOT CLEATS

B WALL CONNECTION :3"

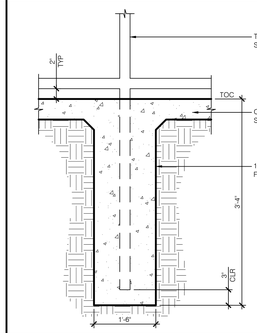
C TOE SPACE :3"

25 NOT USED

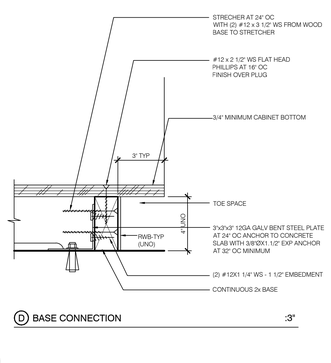
26 NOT USED



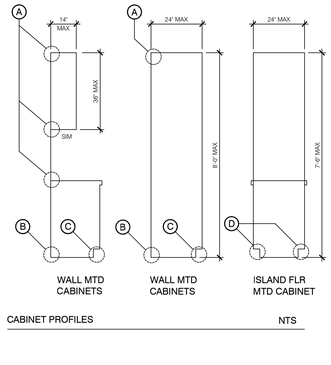
31 TS GATE SECTION AT PANIC HARDWARE : 1.1/2"



32 TS FENCE FOOTING : 1"



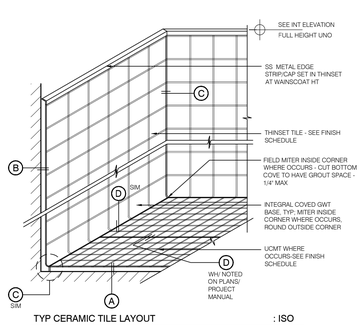
D BASE CONNECTION :3"



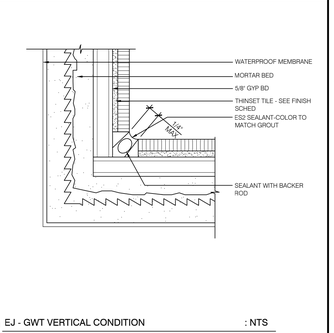
CABINET PROFILES NTS

06-05-01

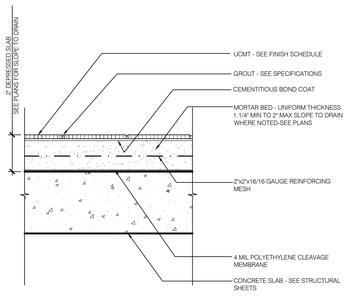
33 TYPICAL CABINET MOUNTING DETAIL - METAL FRAMING : AS NOTED



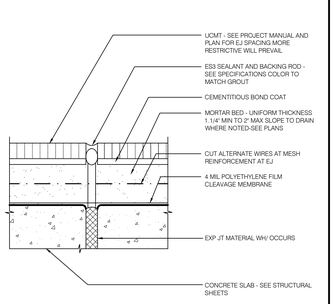
TYP CERAMIC TILE LAYOUT : ISO



C EJ - GWT VERTICAL CONDITION : NTS



A UCMT AT CONC FLOOR TCNA F111 : 3"



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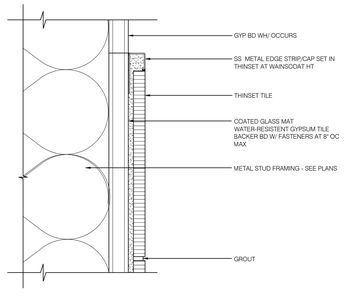
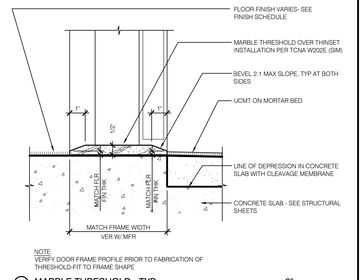


B GWT AT METAL STUD TCNA W245 : 6"

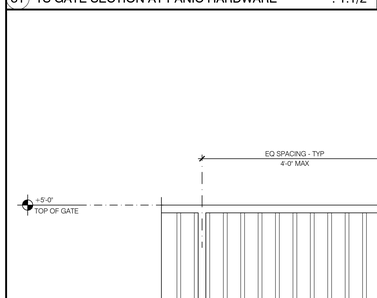


NOTE:
VERIFY DOOR FRAME PROFILE PRIOR TO FABRICATION OF THRESHOLD-FIT TO FRAME SHAPE

E MARBLE THRESHOLD - TYP : 3"

09-07-01

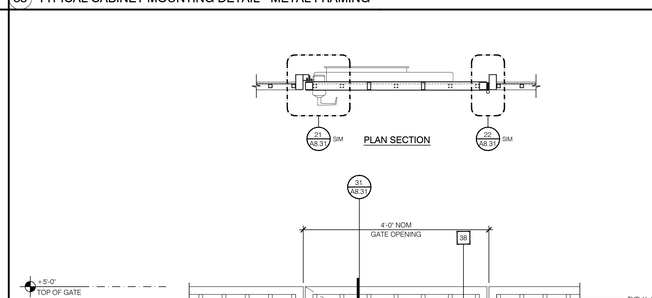
A2.00



NOTES:
1. GRIND EDGES AND WELDING JOINTS SMOOTH PER NAAMM, AMP-251-12 TYPE 2.
2. FENCE/GATE TO RECEIVE POWDER COATING AFTER FABRICATION. NO FIELD WELDING ALLOWED UNLESS NOTED AND APPROVED IN SUBMITTALS.

02-11-04M

51 TS FENCE : 3/4"



NOTES:
1. GRIND EDGES AND WELDING JOINTS SMOOTH PER NAAMM, AMP-251-12 TYPE 2.
2. FENCE/GATE TO RECEIVE POWDER COATING AFTER FABRICATION. NO FIELD WELDING ALLOWED UNLESS NOTED AND APPROVED IN SUBMITTALS.

02-11-04M

53 TS GATE : 3/4"

55 TYPICAL TILE DETAILS : AS NOTED

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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY NO. C-19670 RENEWAL 08-31-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.01.23

REVISIONS

No	Date	Item

10.26.23 10:18

DETAILS

A8.31

11 NOT USED

12 NOT USED

13 NOT USED

14 NOT USED

15 NOT USED

16 NOT USED

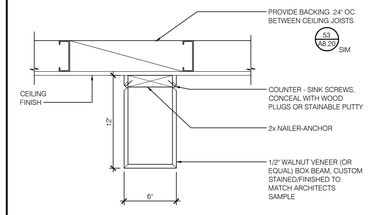
21 NOT USED

22 NOT USED

23 NOT USED

31 NOT USED

32 NOT USED

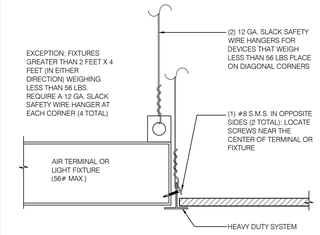


33 DECORATIVE CEILING BEAM : 1 1/2"

1. CEILING SYSTEM GENERAL NOTES
   - 1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.
   - 1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
   - 1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:
     - MANUFACTURER: [ARMSTRONG CEILING SYSTEMS]
     - PRODUCT NAME: [SUPRAFINE XL 9/16" EXPOSED TEE]
     - EVALUATION REPORT TYPE AND NUMBER: [N/A]
     - MAIN RUNNER PART, MODEL, OR CATALOG NUMBER: [#7501]
     - CROSS RUNNER PART, MODEL, CATALOG NUMBER: [#XL 7549]
   - 1.04 SEISMIC WALL CLIP:
     - MANUFACTURER'S MODEL: N/A
   - 1.05 CEILING PANELS SHALL NOT SUPPORT *ANY* LUMINAIRES, AIR TERMINALS OR DEVICES.
   - 1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE ¼" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE ¼" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP. CLEARANCE BETWEEN CEILING GIRD RUNNERS/MEMBERS AND WALLS SHALL COMPLY WITH THE DETAILS ON THESE DRAWINGS REGARDLESS OF CEILING TILE MATERIAL.

2. MATERIALS
   - 2.01 CEILING WIRE SHALL BE CLASS 1 ZINC-COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAUGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM ULTIMATE TENSILE STRENGTH = 70 KSI.
   - 2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A3.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, (AISI S100). MATERIAL 43 MIL (18 GAUGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAUGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
   - 2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES
   - 3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
   - 3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.
   - 3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.
   - 3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
   - 3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE (E.G., BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.).



G LUMINAIRE/ AIR TERMINAL SUPPORT

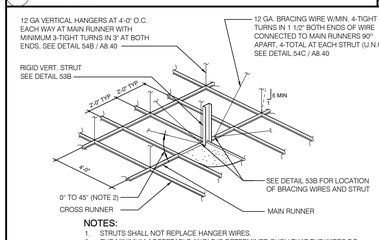
4. FASTENERS AND WELDING
   - 4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513 AND ASME B18.6.3. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
   - 4.02 EXPANSION ANCHORS SHALL BE: [HILTI KBTZ2, ICC-ESR-4266]
   - 4.03 POWER-ACTUATED FASTENERS SHALL BE: [HILTI X-U SHOT PINS, ICC-ESR-2269]
   - 4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.
   - 4.05 POWER-ACTUATED FASTENERS IN CONCRETE OR MASONRY ARE NOT PERMITTED FOR BRACING WIRES.
   - 4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST-INSTALLED ANCHORS.
   - 4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING
   - 5.01 ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
   - 5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER-ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 POUNDS IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1910A.5.
   - 5.03 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1910A.5.

6. LUMINAIRES
   - 6.01 ALL LUMINAIRES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE LUMINAIRE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LUMINAIRE, PER ASTM E580 SECTION 5.3.1.
   - 6.02 SURFACE-MOUNTED LUMINAIRES 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 GAUGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAUGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN A LUMINAIRE IS 8 FEET OR LONGER OR EXCEEDS 56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.
   - 6.03 LUMINAIRES WEIGHING LESS THAN OR EQUAL TO 10 POUNDS MAY BESUPPORTED DIRECTLY ON THE CEILING RUNNERS, SHALL HAVE A MINIMUM OF ONE #12 GAUGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
   - 6.04 LUMINAIRES WEIGHING GREATER THAN 10 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO #12 GAUGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
     EXCEPTION: ALL LUMINAIRES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE AT EACH CORNER.
   - 6.05 ALL LUMINAIRES WEIGHING GREATER THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR TAUT #12 GAUGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.

7. SERVICES WITHIN THE CEILING
   - 7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
   - 7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 POUNDS SHALL HAVE ONE #12 GAUGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
   - 7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS SHALL HAVE TWO #12 GAUGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
   - 7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

8. OTHER DEVICES WITHIN THE CEILING
   - 8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 POUNDS SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

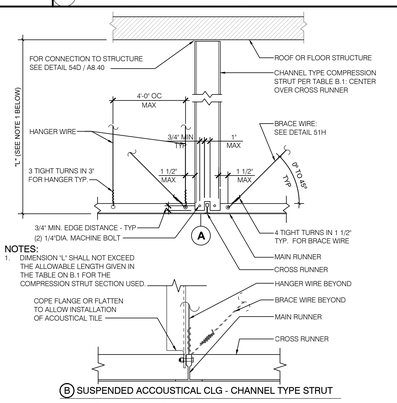


NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

A SUSPENDED CEILING SUSPENSION AND BRACING ASSEMBLY

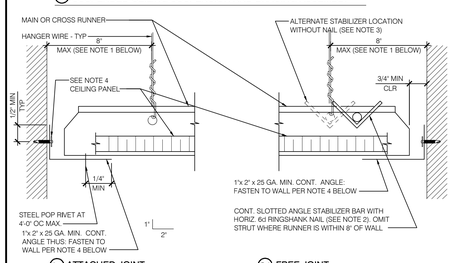
COMPRESSION STRUT CHANNEL SECTION	MAXIMUM LENGTH
250S125-33	5' - 10"
250S137-33	6' - 10"
362S137-33	8' - 0"
250S137-43	8' - 10"
400S137-43	10' - 10"

B1 COMPRESSION STRUT TABLE



NOTES:
1. DIMENSION "L" SHALL NOT EXCEED THE ALLOWABLE LENGTH GIVEN IN THE TABLE ON B.1 FOR THE COMPRESSION STRUT SECTION USED.

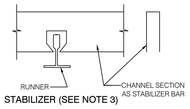
B SUSPENDED ACCOUSTICAL CLG - CHANNEL TYPE STRUT



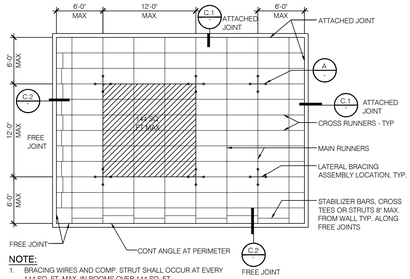
C-1 ATTACHED JOINT C-2 FREE JOINT

NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH 'DIAMOND POINTS' OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. FASTEN ANGLE TO WALL STUD OR BLOCKING AS FOLLOWS:
   - A. METAL STUD (20 GA. MIN.) WALL: (1) #10 SMS AT 24" O.C. MAX.
   - B. WOOD STUD WALL: #10X2" LONG WOOD SCREW AT 16" O.C. MAX.

C CEILING PERIMETER



STABILIZER (SEE NOTE 3)

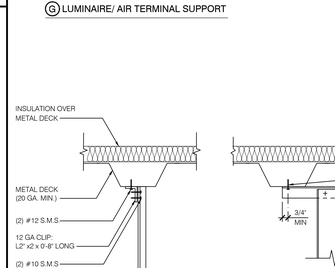


NOTE:
1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

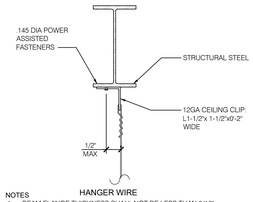
D TYPICAL CLG PLAN FOR 12' x 12' BRACE ASSEMBLY SPACING

A5.00

51 TYPICAL SUSPENDED CEILING SYSTEM



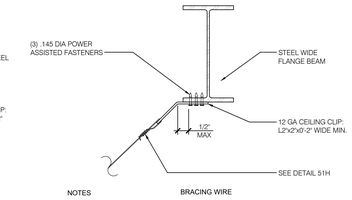
D STRUT CONNECTION TO BARE METAL DECK



NOTES
1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16".
2. ARCHITECT, IOR AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER. SEE AISC 341.
3. REFER TO DETAIL 51A FOR ADDITIONAL INFORMATION.

HANGER WIRE

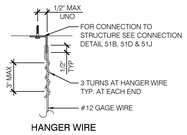
E HANGER WIRE CONNECTION TO STRUCTURAL STEEL



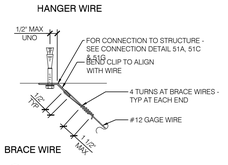
NOTES
1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16".
2. ARCHITECT, IOR, AND CONTRACTOR SHALL VERIFY THAT NO POWER ACTUATED FASTENER IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER. SEE AISC 341.
3. REFER TO DETAIL 51H FOR ADDITIONAL INFORMATION.

BRACING WIRE

F BRACING WIRE CONNECTION TO STRUCTURAL STEEL

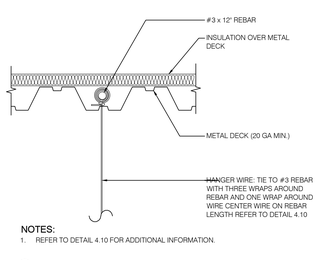


HANGER WIRE



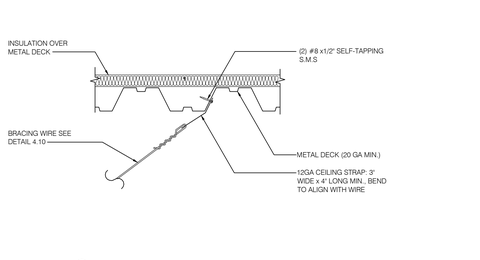
BRACE WIRE

A HANGER AND BRACE WIRE CONNECTION



NOTES:
1. REFER TO DETAIL 4.10 FOR ADDITIONAL INFORMATION.

B HANGER AND BRACE WIRE CONNECTION TO METAL DECK



C BRACE WIRE CONNECTION AT METAL DECK

54 METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILING

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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

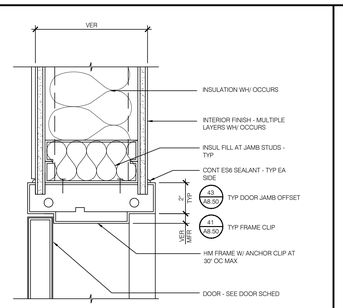
Project No	569-0003
Date	11.01.23

REVISIONS

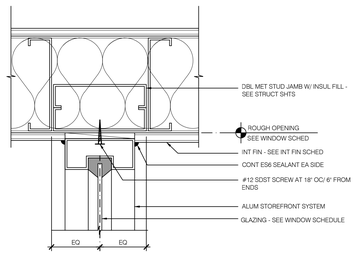
No	Date	Item

DETAILS

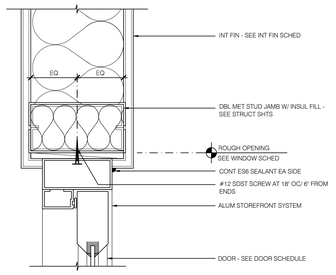
A8.40



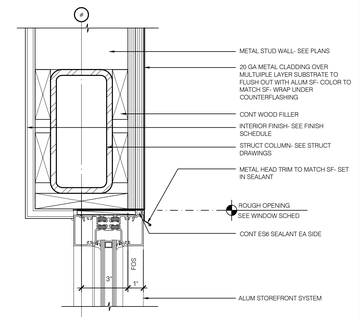
11 HM DOOR FRAME JAMB : 3"



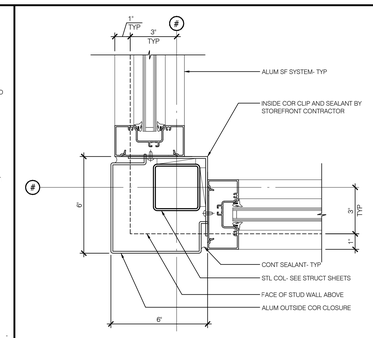
12 INTERIOR SF JAMB : 3"



13 INTERIOR SF DOOR JAMB : 3"

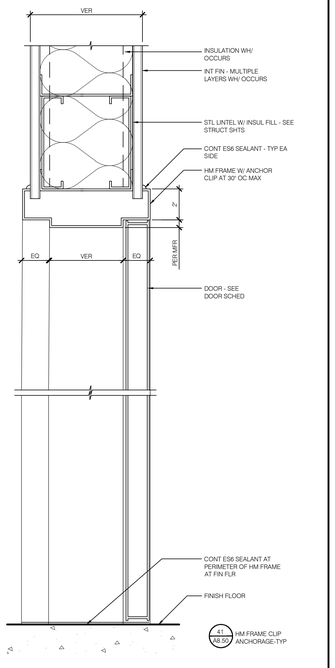


14 SF HEAD AT BEAM CLADDING : 3"

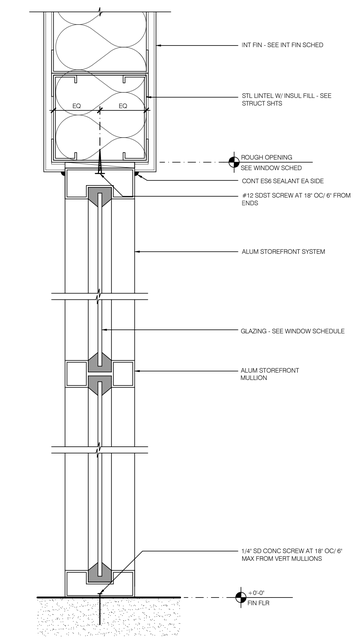


15 SF JAMB OUTSIDE CORNER : 3"

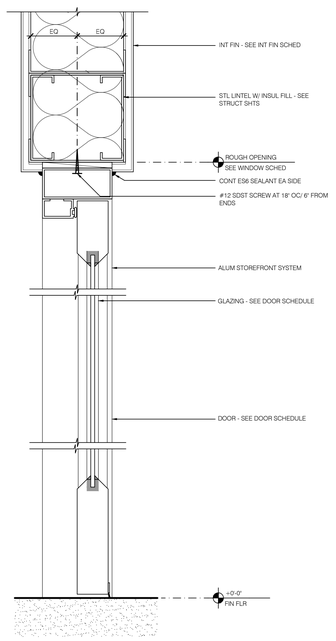
16 NOT USED



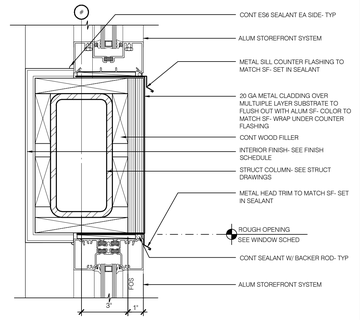
31 HM DOOR FRAME HEAD/SILL : 3"



32 INTERIOR SF HEAD/MULLION/SILL : 3"

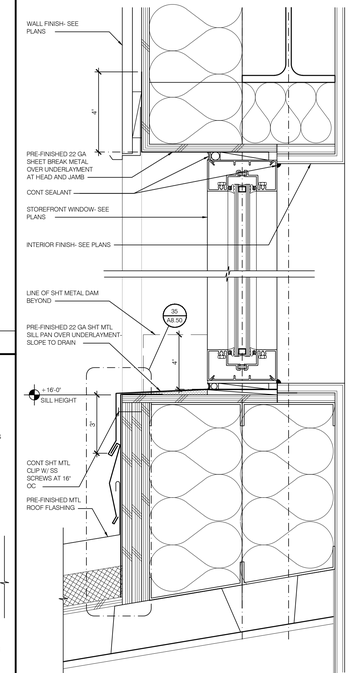


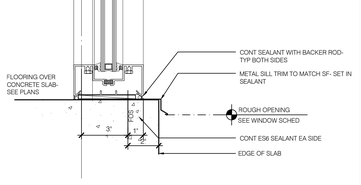
33 INTERIOR SF DOOR HEAD/MULLION/SILL : 3"



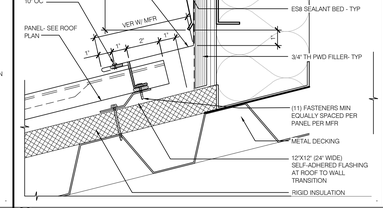
24 SF HEAD/ SILL AT BEAM CLADDING : 3"

25 NOT USED

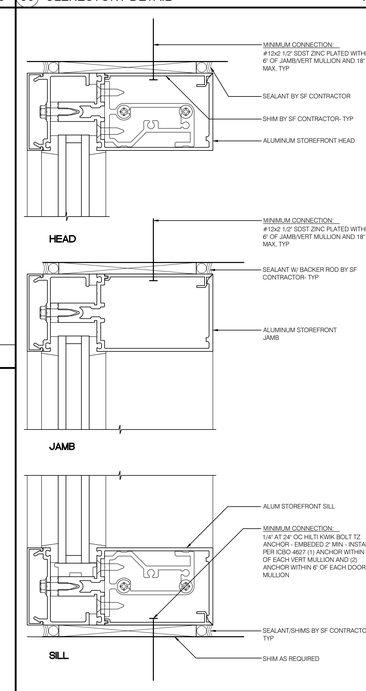




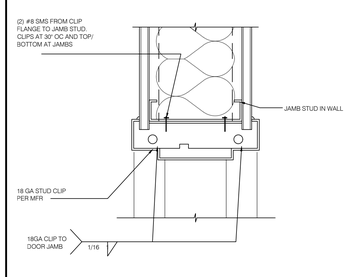
34 SF WINDOW SILL : 3"



35 SIDE WALL FLASHING : 3"

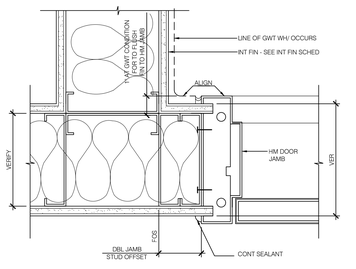


36 CLERESTORY DETAIL : 3"

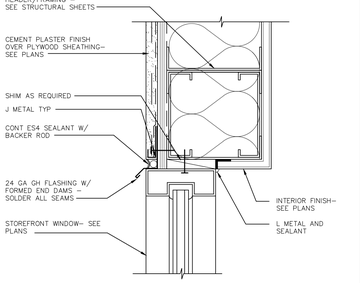


41 TYPICAL HM FRAME CLIP AT METAL STUD : 3"

42 NOT USED

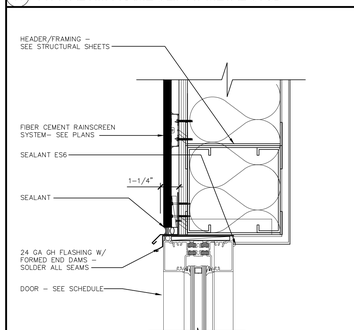


43 TYPICAL HM INTERIOR DOOR JAMB OFFSET : 3"



44 SF HEAD AT CEMENT PLASTER FINISH- JAMB SIM :3"

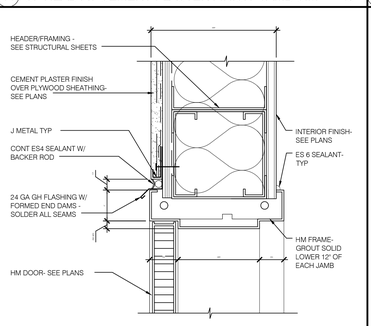
45 NOT USED



51 HM HEAD AT RAINSCREEN- JAMB SIM :3"

52 NOT USED

53 NOT USED



54 HM HEAD AT CEMENT PLASTER FINISH- JAMB SIM :3"

55 NOT USED

56 TYPICAL SF CONNECTION AT METAL FRAMING : 6"

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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

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Project No	569-0003
Date	11.01.23

REVISIONS

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10.26.23 10:17

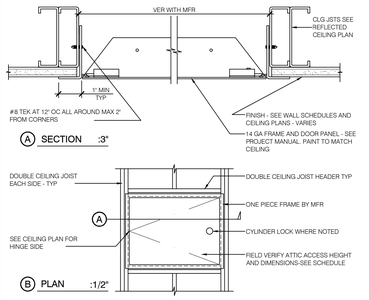
DETAILS

A8.50

11 NOT USED

12 NOT USED

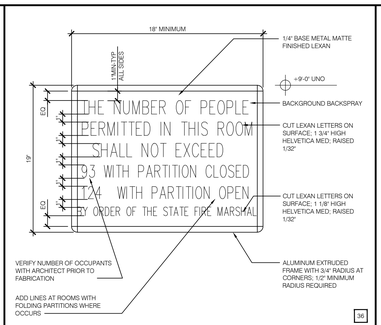
13 ACCESS DOOR AT GYPSUM BOARD : AS NOTED



08-10-01

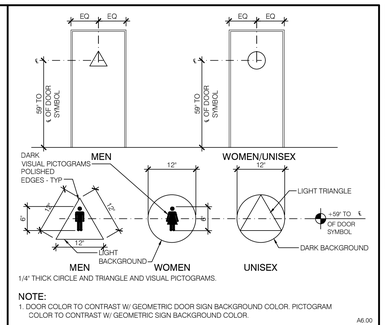
14 NOT USED

15 MAX OCCUPANCY SIGN : 1 1/2"



10-04-18 A2.00

16 TOILET IDENTITY SIGNS : NTS



1/4" THICK CIRCLE AND TRIANGLE AND VISUAL PICTOGRAMS.

NOTE:

1. DOOR COLOR TO CONTRAST W/ GEOMETRIC DOOR SIGN BACKGROUND COLOR. PICTOGRAM COLOR TO CONTRAST W/ GEOMETRIC SIGN BACKGROUND COLOR.

A6.00
A2.20
A2.00

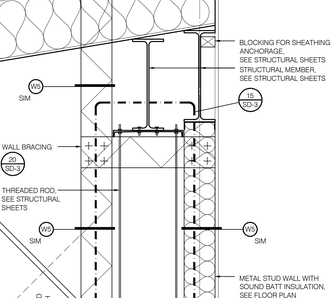
10-04-03M

21 NOT USED

22 NOT USED

23 NOT USED

24 ACCESSIBLE SIGN REQUIREMENTS : NTS



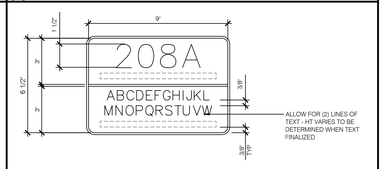
10-04-40 A8.00

NOTE:

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE ARIAL UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 CONTRACTED BRAILLE - SEE NOTE 5 BELOW (11B-703.2.1).
2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND MAXIMUM OF 2" HIGH (CBC 11B-703.2.5).
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MAY BE LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND AND HAVE A NON-GLARE FINISH (CBC 11B-703.5.1).
4. PROPORTIONS: CHARACTERS OF AN UPPERCASE "O" TO AN UPPERCASE "I" ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 (60%) AND 11:10 (110%) AND A STROKE WIDTH-HEIGHT RATIO 3:20 (15%) (CBC 11B-703.2.4 AND 11B-703.2.6).
5. BRAILLE: CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS; DOTS SHALL BE .10" ON CENTERS IN EACH CELL WITH .20" SPACE BETWEEN CELLS, MEASURED IN THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE COLUMN OF DOTS IN THE SECOND CELL; DOTS SHALL BE RAISED A MINIMUM OF .025" AND A MAXIMUM OF .037" ABOVE THE BACKGROUND (CBC TABLE 11B-703.3.1).
6. VISUAL CHARACTERS MAY BE SERIF OR SANS SERIF AND UPPER OR LOWER CASE CAN BE USED (CBC 11B-703.5.2 AND 11B-703.5.3).
7. VISUAL AND TACTILE LINE SPACING BETWEEN BASELINES (BOTTOM) OF SEPARATE LINES OF CHARACTERS W/IN MESSAGE SHALL BE 135% MIN AND 170% MAX OF CHARACTER HT.

A8.00

26 ROOM SIGN : 3"



NOTES:

1. SEE DTL 51 A8.60 FOR TYPICAL SIGN CONSTRUCTION.

32

10-04-10M A2.20

31 NOT USED

32 FIRE EXTINGUISHER IN RECESSED CABINET : 1"

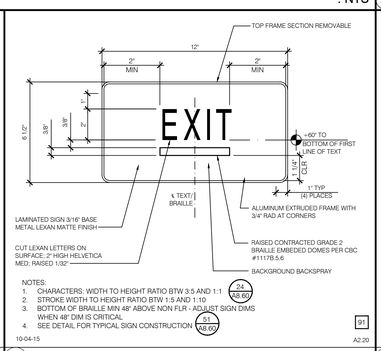
10-08-06 61

33 MOP RACK : AS NOTED

10-09-16 13

34 NOT USED

35 EXIT SIGN : 3"



NOTES:

1. CHARACTERS: WIDTH TO HEIGHT RATIO BTW 3:5 AND 1:1
2. STROKE WIDTH TO HEIGHT RATIO BTW 1:5 AND 1:10
3. BOTTOM OF BRAILLE MIN 48" ABOVE NON FLR - ADJUST SIGN DIMS WHEN 48" DIM IS CRITICAL
4. SEE DETAIL FOR TYPICAL SIGN CONSTRUCTION

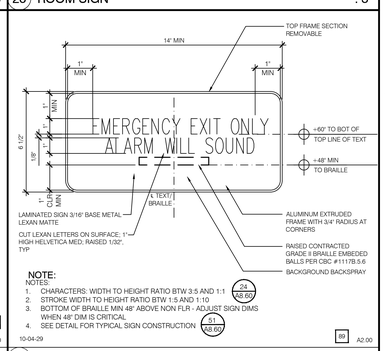
24 A8.60

51 A8.60

91

10-04-15 A2.20

36 EMERGENCY EXIT ONLY - ALARM WILL SOUND SIGN : 3"



NOTE:

NOTES:

1. CHARACTERS: WIDTH TO HEIGHT RATIO BTW 3:5 AND 1:1
2. STROKE WIDTH TO HEIGHT RATIO BTW 1:5 AND 1:10
3. BOTTOM OF BRAILLE MIN 48" ABOVE NON FLR - ADJUST SIGN DIMS WHEN 48" DIM IS CRITICAL
4. SEE DETAIL FOR TYPICAL SIGN CONSTRUCTION

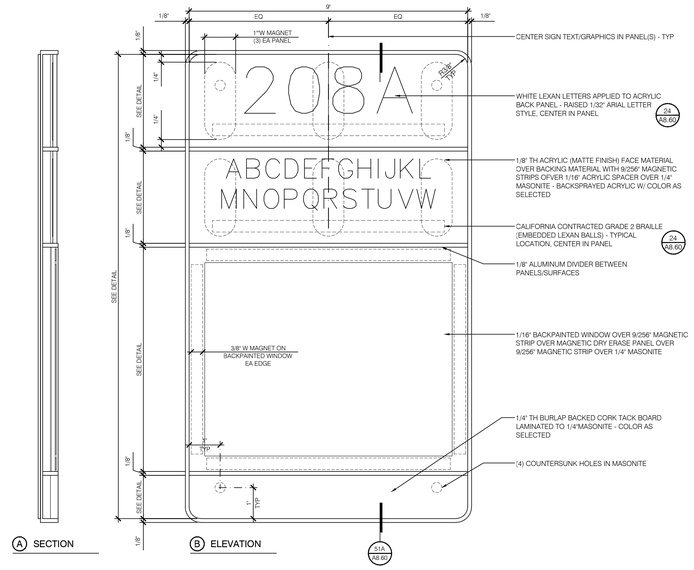
24 A8.60

51 A8.60

89

10-04-29 A2.00

51 TYPICAL SIGN CONSTRUCTION : 6"



53 OPERABLE PARTITION WALL :1"

55 NOT USED

56 NOT USED

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA, 93301
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COUNTY OF TULARE LIBRARY SPRINGVILLE BRANCH

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY No. C-19670 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.01.23

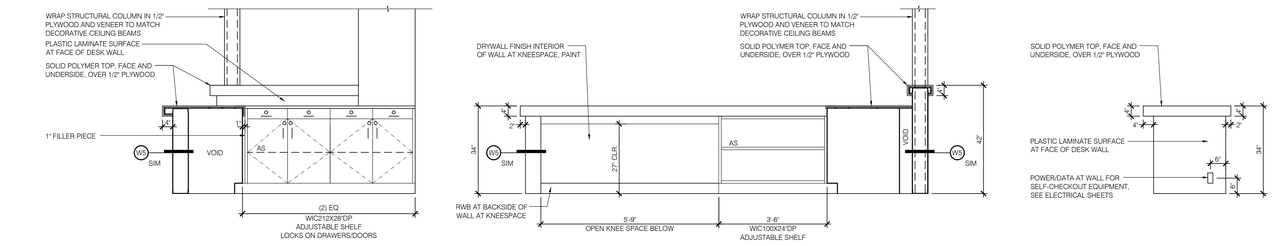
REVISIONS

No	Date	Item

10.26.23 10:16

DETAILS

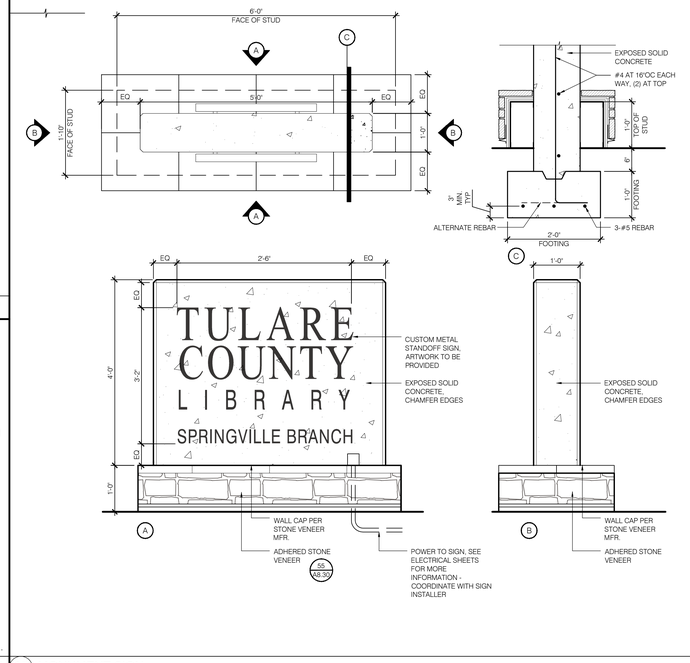
A8.60

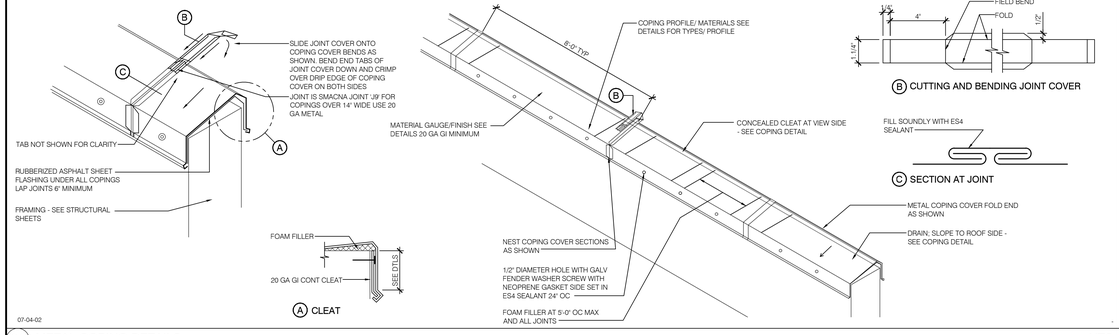


21 CIRCULATION DESK :1/2"

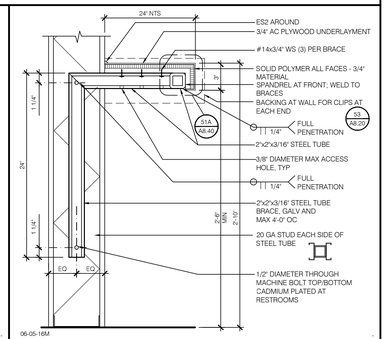
15 NOT USED

16 NOT USED



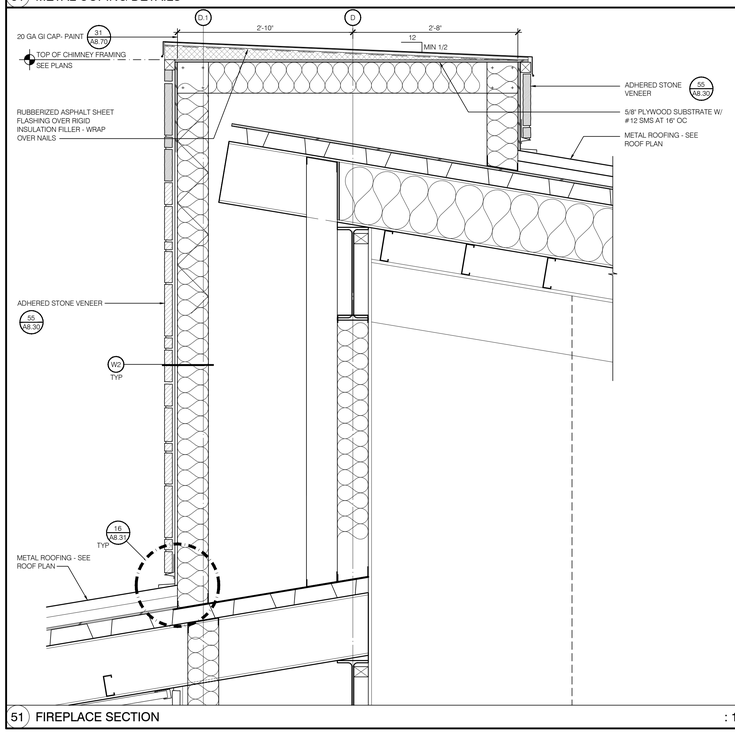


31 METAL COPING DETAILS : NTS

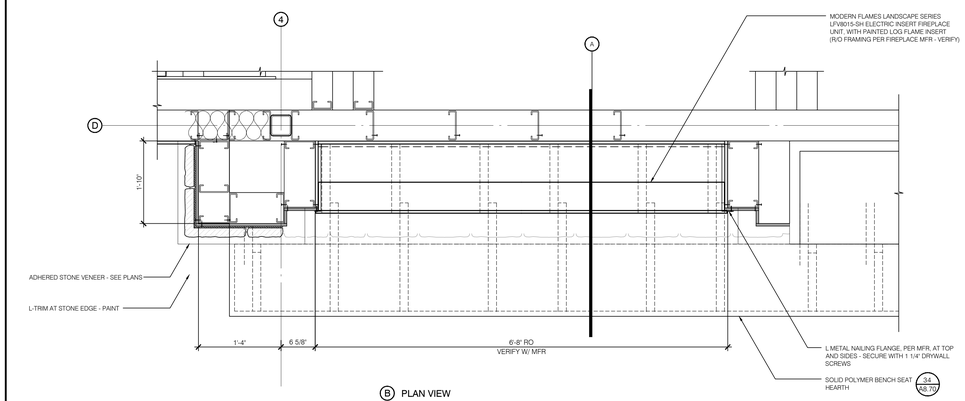


34 COUNTER / BRACE : 1 1/2"

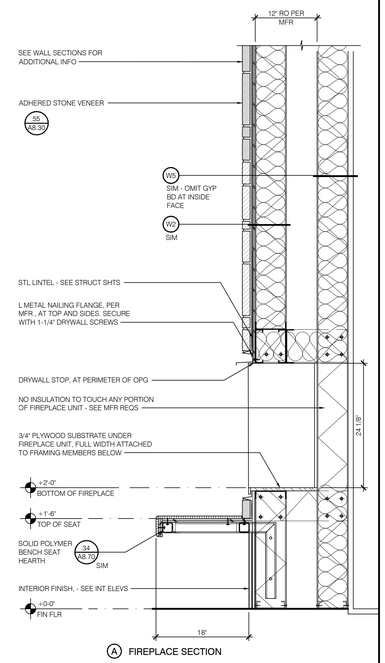
35 MONUMENT SIGN :1/2"



51 FIREPLACE SECTION : 1"



53 FIREPLACE DETAIL :1"



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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

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PROJECT INFO

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DETAILS

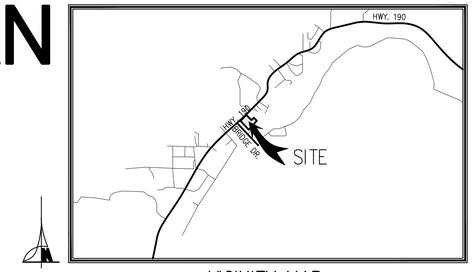
A8.70

SITE GRADING, DRAINAGE AND UTILITY PLAN

SPRINGVILLE LIBRARY

SPRINGVILLE, CALIFORNIA

APN: 285-060-034



VICINITY MAP
N.T.S.

GENERAL NOTES

ALL GRADING, EXCAVATION, AND SOILS PREPARATION SHALL BE DONE IN CONFORMANCE WITH THE 2022 CALIFORNIA BUILDING CODE CHAPTER 33, REQUIREMENTS OF THE COUNTY OF TULARE, THE RECOMMENDATIONS CONTAINED IN THE PRELIMINARY GEOTECHNICAL REPORT PREPARED BY DC INSPECTIONS, DATED JULY 5, 2022, AND AS NOTED IN THE GENERAL NOTES BELOW:

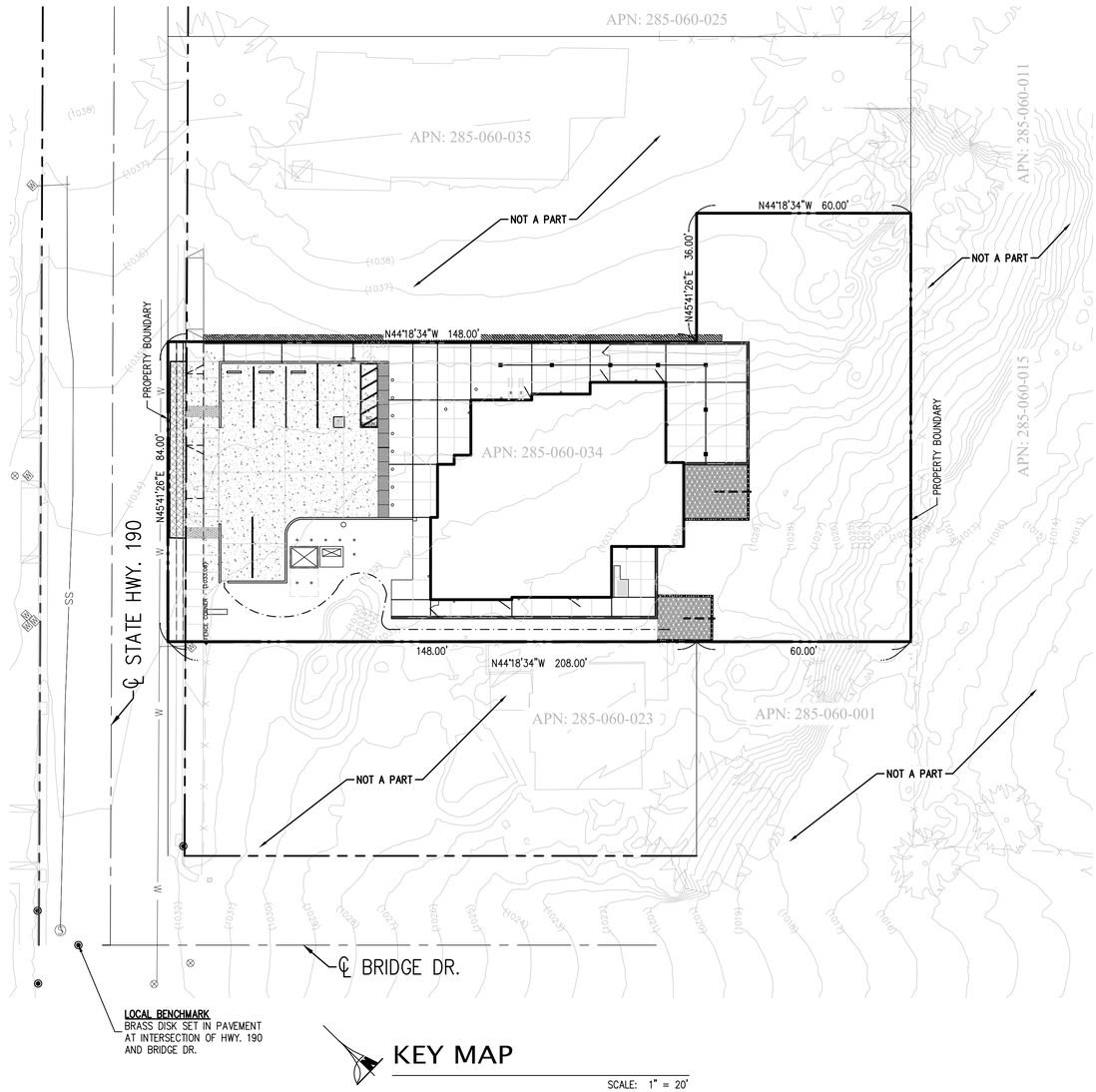
1. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE COUNTY OF TULARE IMPROVEMENT STANDARDS.
2. THE TULARE COUNTY RESOURCE MANAGEMENT AGENCY SHALL BE NOTIFIED (559) 624-7000 24-HOURS PRIOR TO THE START OF ANY PORTION OF WORK.
3. DEVIATION FROM THESE PLANS SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF BOTH THE DESIGN ENGINEER AND THE COUNTY OF TULARE.
4. AN ENCROACHMENT PERMIT SHALL BE OBTAINED PRIOR TO DOING ANY WORK WITHIN THE COUNTY ROAD RIGHT-OF-WAY.
5. SIGNING AND FLAGGING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE CURRENT AMENDED VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR USE IN CALIFORNIA.
6. FUGITIVE DUST CONTROL MEASURES SHALL BE TAKEN IN ACCORDANCE WITH RULE 8020 ESTABLISHED BY THE SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT.
7. CUT AND FILL SLOPES GREATER THAN 6:1 AND ALL CUT SLOPES SHALL BE STABILIZED FOR EROSION CONTROL BY SEEDING OR INCORPORATION OF STRAW PER SECTION 20 OF THE STATE STANDARD SPECIFICATIONS.
8. THE COUNTY ENGINEER MAY REQUIRE THAT A PRIME COAT OR PAINT BINDER PER SECTION 394.02 OF THE STATE STANDARD SPECIFICATIONS BE APPLIED TO ALL AREAS TO BE SURFACED WITH ASPHALT CONCRETE.
9. ANY UTILITIES CONFLICTING WITH THE IMPROVEMENTS SHALL BE RELOCATED IN THE CONSTRUCTION AND INSPECTION OF THE IMPROVEMENTS SHALL BE ARRANGED BY THE CONTRACTOR.
10. AN ON-SITE PRE-CONSTRUCTION MEETING BETWEEN ALL PARTIES INVOLVED IN THE CONSTRUCTION AND INSPECTION OF THE IMPROVEMENTS SHALL BE ARRANGED BY THE CONTRACTOR.
11. FINAL INSPECTION AND ACCEPTANCE OF ALL WORK WILL BE BY THE COUNTY OF TULARE.
12. THE CONTRACTOR/DEVELOPER SHALL CONTACT THE COUNTY AG DEPARTMENT TO ARRANGE FOR THE APPLICATION OF A SOIL STERILANT TO THE PONDING BASIN.
13. ALL GRADING WORK SHALL CONFORM TO THE STATE OF CALIFORNIA CONSTRUCTION GENERAL PERMIT REQUIREMENTS. A STORMWATER POLLUTION PREVENTION PLAN SHALL BE PREPARED, IF REQUIRED, AND SUBMITTED TO THE TULARE COUNTY RESOURCE MANAGEMENT AGENCY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
14. CUT SLOPES ARE 1.5:1 MAXIMUM. FILL SLOPES ARE 2:1 MAXIMUM.

811 Know what's below. Call before you dig.

CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES, AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION

WARNING:
LOCATE ALL UNDERGROUND PIPING IN THE CONSTRUCTION AREA PRIOR TO THE COMMENCEMENT OF GRADING.

CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING LINES AND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. DAMAGE TO ANY FACILITIES, UNDERGROUND OR OTHERWISE, RESULTING FROM THE CONTRACTOR'S OPERATIONS, DIRECTLY OR INDIRECTLY, SHALL BE IMMEDIATELY REPAIRED BY HIM AT NO EXPENSE TO THE DISTRICT, OWNER, ENGINEER, DESIGN ENGINEER OF CITY OF TULARE.



KEY MAP
SCALE: 1" = 20'

SHEET INDEX

EARTHWORK QUANTITIES:

TOTAL DISTURBED AREA =	0.3 ACRES
CUBIC YARDS CUT (RAW) =	45 C.Y.
CUBIC YARDS FILL (RAW) =	825 C.Y.
OVEREXCAVATION (1') =	415 C.Y.
CLEAR AND GRUB	0 C.Y.
CUBIC YARDS CUT (ADJUSTED) =	460 C.Y.
CUBIC YARDS FILL (ADJUSTED) =	1,612 C.Y.
TOTAL EARTHWORK QUANTITIES =	1, 150 C.Y. (IMPORT)

*FILL WAS CALCULATED WITH A COMPACTION FACTOR OF 1.3

THE ABOVE QUANTITIES ARE BASED ON GRADING LINES AND ELEVATIONS SHOWN ON THE DRAWINGS. ACTUAL QUANTITIES OF EARTHWORK MAY VARY FROM THAT STATED ABOVE DEPENDING UPON VARYING SOIL DENSITIES AND ON THE DEGREE OF SITE PREPARATION ACTUALLY REQUIRED IN THE FIELD.

BASIS OF BEARING:

THE NORTH AMERICAN DATUM OF 1983 (NAD83), CALIFORNIA COORDINATE SYSTEM, ZONE 4, WAS USED AS THE BASIS OF BEARINGS AS SHOWN HEREON.

LOCAL BENCHMARK:

BRASS DISK SET IN PAVEMENT AT INTERSECTION OF HWY. 190 AND BRIDGE DR. STAMPED FOR CALTRANS MONUMENT.

PT#	23
N	1930962.88
E	6615668.71
EL	1032.95

BENCHMARK:

DESIGNATION	POTERVILLECS2005 CORS ARP
CORS_ID	P056
PID	DN7512
STATE/COUNTY	CA/TULARE
USGS QUAD	PORTERVILLE (2018)
ELEVATION	439.90

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION 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 DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

LICENSED ARCHITECT JAMES PATRICK FOGARTY C-19670 RENEWAL 08/31/2025 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

REGISTERED PROFESSIONAL ENGINEER DERRILL C. WHITTEN JR. No. C-051930 CIVIL STATE OF CALIFORNIA

ENGINEER'S STATEMENT:

THESE PLANS AND SPECIFICATIONS WERE PREPARED BY ME OR UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH COUNTY OF TULARE ORDINANCES, STANDARDS, AND DESIGN CRITERIA, AND INCLUDE ALL IMPROVEMENT REQUIREMENTS OF THE ADVISORY AGENCY OR OTHER REVIEW BOARD.

ANY ERRORS, OMISSIONS OR OTHER VIOLATIONS OF THOSE ORDINANCES, STANDARDS OR DESIGN CRITERIA ENCOUNTERED DURING CONSTRUCTION SHALL BE CORRECTED AND SUCH CORRECTIONS REFLECTED ON CORRECTED PLANS SUBMITTED TO THE COUNTY ENGINEER.

12/12/2023
DERRILL G. WHITTEN JR. C-0519030 DATE

NO.	DATE:	REVISION:	BY:

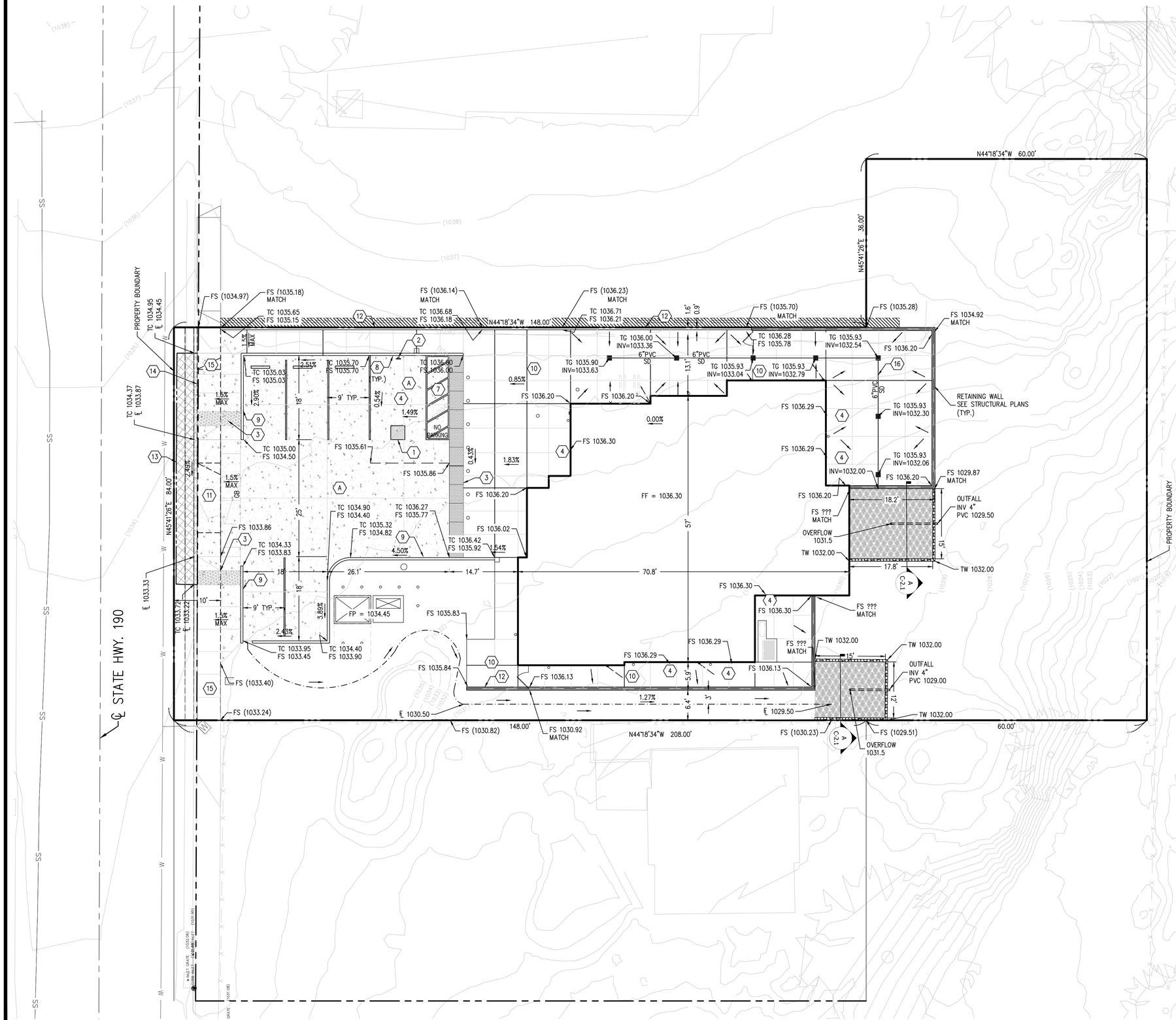
CORNERSTONE ENGINEERING
CONSULTANTS • ENGINEERS • LAND SURVEYORS
5509 YOUNG STREET, BAKERSFIELD CA 93311
TEL: (661) 325-9474 FAX: (661) 322-0129
www.cornerstoneeng.com

DEVELOPMENT BY:
SPRINGVILLE LIBRARY
35707 HWY 190
SPRINGVILLE, CA 93265

SITE GRADING, DRAINAGE AND UTILITY PLAN
SPRINGVILLE LIBRARY
APN: 285-060-034
COVER SHEET

DESIGNER:	DGW
CHECKED BY:	DGW
DATE:	01/10/2024
DRAFTER	RAC
SCALE:	AS SHOWN
COMP. NO:	7650400_GRD
JOB NO.:	765-04-00

C-1.0 SHEET 1 OF 6



CONSTRUCTION NOTES

1. PAINT HANDICAP SYMBOL PER DETAIL 1.
2. INSTALL ACCESSIBLE PARKING SIGN PER DETAIL 2.
3. INSTALL TRUNCATED DOMES PER DETAIL 4.
4. SLOPE SHALL BE 2% MAX. IN ANY DIRECTION PER CURRENT ADA STANDARDS
5. ADA PATH OF TRAVEL: 2% MAX. CROSS SLOPE AND 5% MAX SLOPE IN DIRECTION OF TRAVEL PER CURRENT ADA STANDARDS
6. INSTALL ACCESSIBLE RAMP PER CALTRANS STANDARDS PLAN A88A CASE 'F' DETAIL
7. PAINT 4" BLUE STRIPES AT 36" O.C. PER CURRENT ADA STANDARDS, WITH "NO PARKING" AT BACK OF STALL
8. WHEEL STOP PER ARCHITECTURAL PLANS
9. CONSTRUCT 6" CURB PER C.O.T. PLATE NO. A-19.
10. CONSTRUCT 4" THICK PORTLAND CEMENT CONCRETE SIDEWALK WITH 6x6/10x10 WWM OVER 6" OF NATIVE SOIL COMPACTED TO 90% RELATIVE COMPACTION PER ASTM D1557. INSTALL TOOLED CONSTRUCTION JOINTS @ 5' O.C. EACH WAY WITH EXPANSION JOINTS @ 20' O.C. EACH WAY WITH DOWELS PER DETAIL 3. CONTRACTOR SHALL FINISH THE CONCRETE SURFACE WITH A MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.
11. CONSTRUCT DRIVEWAY PER CALTRANS STANDARDS PLAN A87A, CASE A
12. INSTALL 6" "A" CURB
13. UNDER ENCROACHMENT PERMIT, SAWCUT AND REMOVE ±50 LF OF EXISTING CURB, GUTTER, DRIVE APPROACH AND PAVEMENT. INSTALL NEW CURB AND GUTTER WITH NEW DRIVEWAY AND SIDEWALK PER CALTRANS STANDARDS.
14. CONSTRUCT 6" CURB AND GUTTER TYPE A2 PER CALTRANS STANDARD A87A.
15. CONSTRUCT SIDEWALK PER CALTRANS STANDARDS.
16. INSTALL 85 L.F. OF 6" PVC S.D. PIPE @ 2% SLOPE. OUTFALL TO BIORETENTION BASIN.

*SEE SHEET C-2.1, FOR DETAILS AND STANDARDS

LEGEND (HATCH)

- CONCRETE FLATWORK: SEE CONSTRUCTION NOTES FOR MORE INFORMATION.
- (A) CONCRETE PAVEMENT: CONSTRUCT 6" P.C. CONCRETE WITH #4 REINFORCING BAR @24" O.C. EACH WAY OVER 12" OF NATIVE SOIL COMPACTED TO 95% RELATIVE COMPACTION PER ASTM D1557. P.C.C. SHALL HAVE A MINIMAL FLEXURAL STRENGTH (MODULUS OF RUPTURE) OF 500 PSI AND A MINIMUM COMPRESSION STRENGTH OF 3,500 PSI. FOR DOWELED JOINTS, SEE DETAILS 3 & 6. (TI=5.0)
- (B) ASPHALT PAVEMENT: INSTALL 3" ASPHALT CONCRETE OVER 9" AGGREGATE BASE OVER 12" OF NATIVE SOIL COMPACTED TO 95% MDD PER ASTM D1557. (TI=5.0)
- STREET PAVEMENT PATCH: MATCH EXISTING PAVEMENT SECTION

LEGEND

C.O.T.	– COUNTY OF TULARE
CL OR ℄	– CENTER LINE
EP	– EDGE OF PAVEMENT
EX	– EXISTING
GB	– GRADE BREAK
H.P.	– HIGH POINT
ℙ	– PROPERTY LINE
R/W	– RIGHT OF WAY
EP (55.80)	– EXISTING EDGE OF PAVEMENT ELEVATION
℄ (55.99)	– EXISTING FLOWLINE ELEVATION
FS (55.99)	– EXISTING FINISH SURFACE ELEVATION
FG 50.98	– FINISH GRADE ELEVATION
℄ 50.62	– FLOWLINE ELEVATION
LS	– LANDSCAPE
FS 54.13	– FINISH SURFACE ELEVATION
TC 55.88	– TOP OF CURB ELEVATION
	– BOUNDARY/PROPERTY LINE
	– EXISTING RIGHT OF WAY
	– PROPOSED RIGHT OF WAY
	– SAWCUT
	– DIRECTION OF DRAINAGE
	– EXISTING POWER POLE
	– EXISTING SEWER MANHOLE
(281)	– EXISTING CONTOUR
	– SURVEY MONUMENT
	– PROPOSED FIRE HYDRANTS; SEE WATER PLAN
	–SITE LIGHTING PER ARCH'S PLANS

GRAPHIC SCALE
10' 5' 0' 5' 10'
(IN FEET)
1 inch = 10 ft.

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

REVISION: NO. | DATE: | BY:

REGISTERED PROFESSIONAL ENGINEER
DERRILL C. WHITTEN JR.
No. C-051930
CIVIL
STATE OF CALIFORNIA
12/12/23

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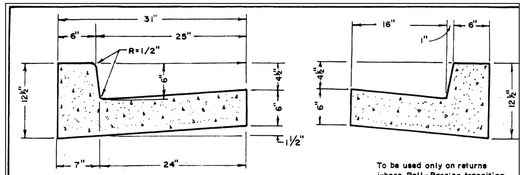
SITE GRADING, DRAINAGE AND UTILITY PLAN
SPRINGVILLE LIBRARY
APN: 285-060-034

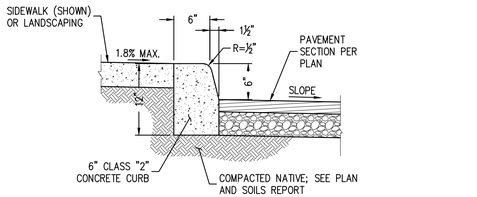
GRADING AND DRAINAGE PLAN

DESIGNER:	DGW
CHECKED BY:	DGW
DATE:	01/10/2024
DRAFTER	RAC
SCALE:	AS SHOWN
COMP. NO:	7650400_GRD
JOB NO.:	765-04-00

C-2.0 | SHEET 2 OF 6

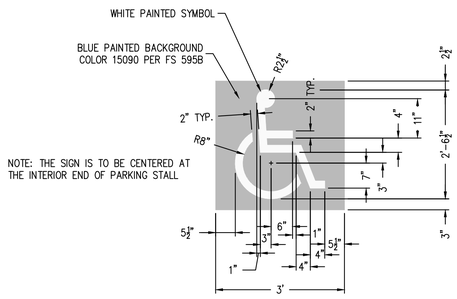
E:\Land Development\765 AP Architects\765-04-00 Springville Library\DWG\CIV\7650400_GRD.dwg, 1/10/2024 8:03:34 AM





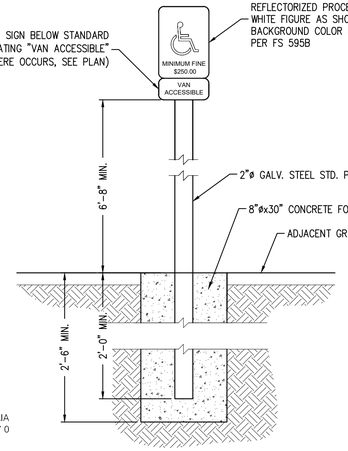
-INSTALL 1/2" EXPANSION JOINT @ 20' o.c.
-WEAKENED PLANE JOINTS @ 5' o.c.
-JOINTS IN ADJACENT SIDEWALKS SHALL MATCH

4 6" ON-SITE CURB
Scale: 1":1'

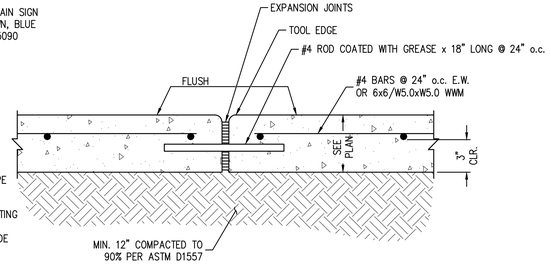


NOTE: THE SIGN IS TO BE CENTERED AT THE INTERIOR END OF PARKING STALL

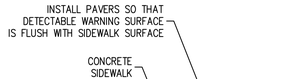
1 ACCESSIBLE SYMBOL
Scale: N.T.S.



2 ACCESSIBLE PARKING SIGN
Scale: NT.S.

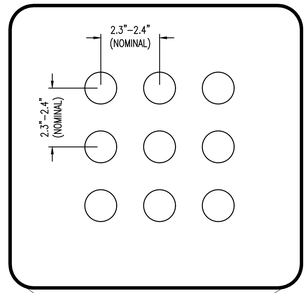


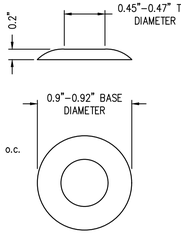
3 EXPANSION JOINT IN NEW CONCRETE
Scale: N.T.S.

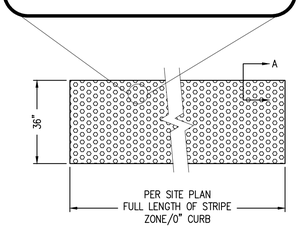


PLACEMENT DETAIL

SECTION A
NOT TO SCALE







SURFACE MOUNTED TRUNCATED DOMES

DESCRIPTION OF WORK
A. A BRIEF DESCRIPTION OF WORK IS AS FOLLOWS:
1. TRUNCATED-DOMES AT CURB RAMPS (ANY CURB RAMP AND THE PATH LEADING ACROSS VEHICULAR TRAFFIC SHALL HAVE TRUNCATED-DOMES).

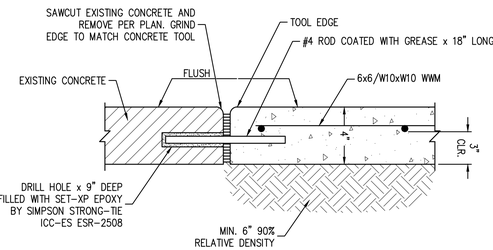
QUALITY ASSURANCE
A. A.D.A. COMPLIANCE: PARKING SPACES FOR THE DISABLED SHALL BE MARKED ACCORDING TO 2019 C.B.C. SECTION 11B.502. TACTILE WARNING LINES SHALL BE IN COMPLIANCE TO 2019 C.B.C. SECTION 11B.705.

TRUNCATED IN-LINE DOMES AT ALL CURB RAMPS AND OTHER DESIGNATED LOCATIONS
A. DOME GEOMETRY: IN ACCORDANCE WITH A.D.A. REGULATIONS; PART 1 – 4.29 AND CALIFORNIA TITLE 24 RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9", HEIGHT OF NOMINAL 0.2", AND CENTER-TO-CENTER SPACING OF 2.35".
B. PANEL DIMENSIONS: A 36" WIDE X 12" MINIMUM PANEL AT THE BOTTOM OF A CURB RAMP IS REQUIRED. INSTALLATION SHALL BE RECESSED.
C. MATERIAL: A HOMOGENOUS GLASS AND CARBON REINFORCED COMPOSITION SHALL BE COLORFAST AND UV STABLE. PANEL COLOR SHALL BE UNIFORM THROUGHOUT THE PANEL. COMPOSITE PRODUCTS WITH PAINT COATINGS OR UV COATINGS ARE UNACCEPTABLE.
D. INSTALLATION: TACTILE PANELS SHALL BE ADHERED TO RECESSED CONCRETE WITH EITHER THIN-SET MORTAR OR ONE COMPONENT STRUCTURAL URETHANE ADHESIVE. ADHESIVE COLOR SHALL MATCH PANEL. PANELS SHALL ALSO BE ATTACHED WITH MECHANICAL ANCHORS. FASTENERS SHALL BE ¼" X 1-5/8" COMPOSITE SLEEVE ANCHOR WITH STAINLESS STEEL PINS. FASTENER COLOR SHALL MATCH PANEL.
1. ADHESIVE: SONOBORN NP1, SIKAFLEX 1.
E. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS OF BY THE FOLLOWING MANUFACTURER. THE ARCHITECT AS DELINEATED IN DIVISION O BID AND AGREEMENT DOCUMENTS MUST REVIEW OTHER MANUFACTURERS.
1. A.D.A. TACTILE SYSTEMS
2. A.D.A. SOLUTIONS, INC.
3. ARMOR TILE OR APPROVED EQUAL.

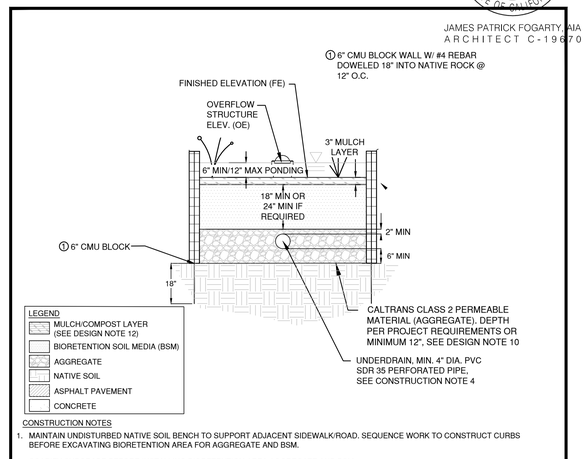
F. REQUIREMENTS:	RESULTS	A.S.T.M.
COMPRESSIVE STRENGTH	23,800 PSI	D 695
FLEXURAL STRENGTH	24,600 PSI	D 790
WATER ABSORPTION	.13% @ 2 WEEKS	D 570
SLIP RESISTANCE	EXCEEDS 0.80 WET OR DRY	C 1028
FLAME SPREAD INDEX	15	E 84
SMOKE DEVELOPED	145	E 84
SALT SPRAY	NO CHANGE (120 HOURS)	B 117
CHEMICAL STAIN	NO DETERIORATION	1308
ABRASIVE RESISTANCE	564	C 501
ACCELERATED WEATHERING	NO CHANGE (3,000 HOURS)	G 26
TENSILE STRENGTH	12,100 PSI	D 638
ROCKWELL HARDNESS	122	D 755
FREEZE/THAW/HEAT	NO DISINTEGRATIONC	1026

COLOR: YELLOW

5 RAISED TRUNCATED DOMES
Scale: N.T.S.



6 EXPANSION JOINT IN EXISTING CONCRETE
Scale: N.T.S.

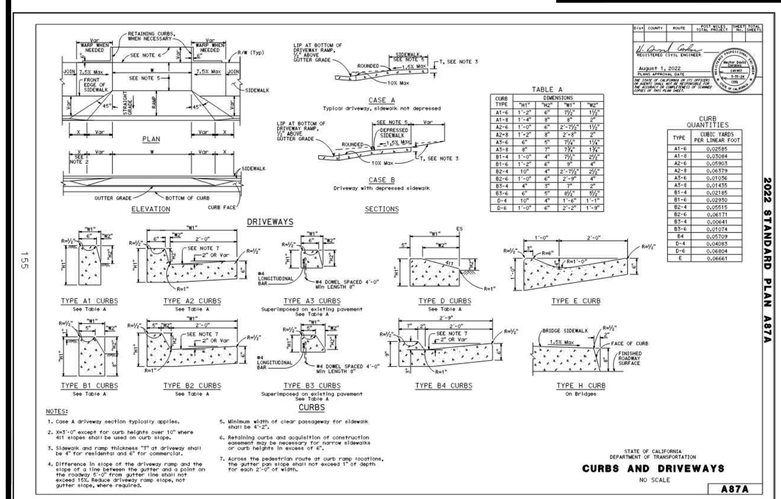


CONSTRUCTION NOTES
1. MAINTAIN UNDISTURBED NATIVE SOIL BENCH TO SUPPORT ADJACENT SIDEWALK/ROAD. SEQUENCE WORK TO CONSTRUCT CURBS BEFORE EXCAVATING BIORETENTION AREA FOR AGGREGATE AND BSM.
2. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
3. FACILITY EXCAVATION TO ALLOW FOR SPECIFIED AGGREGATE, BSM, AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.
4. INSTALL UNDERDRAIN WITH HOLES FACING DOWN. TOP OF UNDERDRAIN 6" BELOW TOP OF AGGREGATE LAYER. UNDERDRAIN SLOPE MAY BE FLAT.
5. COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, LET DRY OVERNIGHT BEFORE PLANTING.
6. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
7. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
8. STORMWATER SHOULD BE DIRECTED AWAY FROM BIORETENTION UNTIL CONSTRUCTION IS COMPLETE AND DRAINAGE AREA VEGETATION IS STABILIZED.

1 DOWEL CMU WALL INTO NATIVE ROCK WITH #4 REBAR AT 18" OC.

LOW IMPACT DEVELOPMENT STORMWATER MANAGEMENT STANDARD DETAILS

CASQA / LIDI	APPROVED BY:	STREET BIORETENTION PLANTER BOX, NO PARKING, WITH UNDERDRAIN	STANDARD PLAN NO.
DEVELOPED UNDER PROP. 84 GRANT	VERSION: 08/31/2017	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION	SW-4
			SHEET 1 OF 2



JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

LICENSED ARCHITECT JAMES PATRICK FOGARTY No. C-19670 30-25 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER DERRILL C. WHITTEN JR. No. C-051930 CIVIL STATE OF CALIFORNIA 12/12/23

CORNERSTONE ENGINEERING
CONSULTANTS • ENGINEERS • LAND SURVEYORS
5509 YOUNG STREET, BAKERSFIELD CA 93311
TEL.: (661) 325-9474 FAX: (661) 322-0129
www.cornerstoneeng.com

DEVELOPMENT BY:
SPRINGVILLE LIBRARY
35707 HWY 190
SPRINGVILLE, CA 93265

SITE GRADING, DRAINAGE AND UTILITY PLAN
SPRINGVILLE LIBRARY
APN: 285-060-034
DETAILS AND STANDARDS

DESIGNER:	DGW
CHECKED BY:	DGW
DATE:	01/10/2024
DRAFTER	RAC
SCALE:	AS SHOWN
COMP. NO:	7650400_GRD
JOB NO.:	765-04-00
C-2.1	SHEET 3 OF 6

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

LICENSED ARCHITECT JAMES PATRICK FOGARTY No. C-19670 30-25 STATE OF CALIFORNIA

NO.	DATE:	REVISION:	BY:

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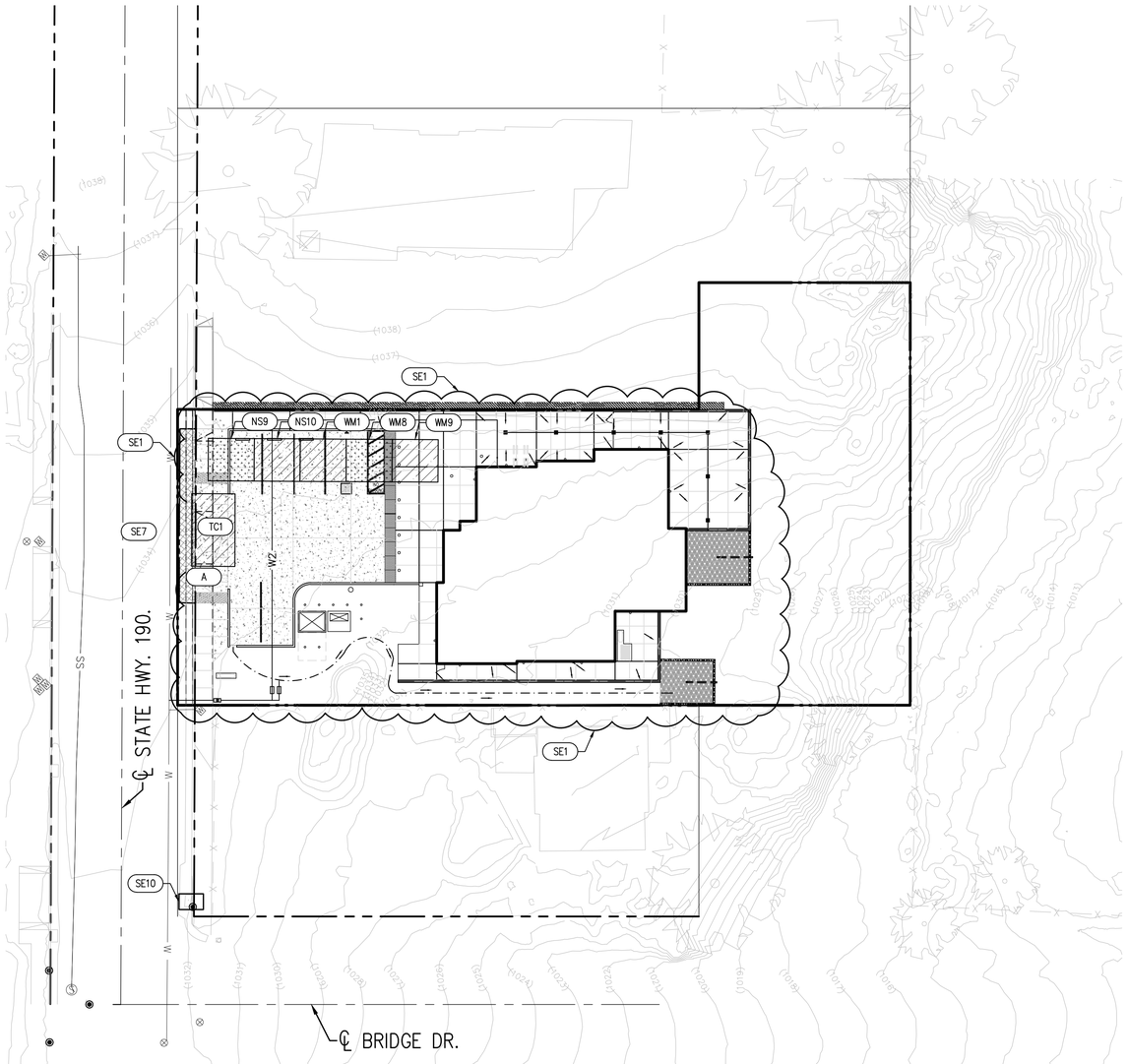

EROSION LEGEND

- SE1 — CONSTRUCT SILT FENCE IN ACCORDANCE WITH BMP FACTS SHEET SE-1. SEE BMP "H" ON SHEET C-2.2; FIBER ROLL MAY BE USED ALTERNATIVELY.
- SE5 — CONSTRUCT FIBER ROLL IN ACCORDANCE WITH BMP FACTS SHEET SE-5. SEE BMP "I" ON SHEET C-2.2; SILT FENCE MAY BE USED ALTERNATIVELY.
- SE7 — STREET SWEEPING IN ACCORDANCE WITH BMP FACTS SHEET SE-7
- SE10 — INSTALL FILTER FABRIC INLET PROTECTION OVER INLETS IN ACCORDANCE WITH BMP SE-10, SEE BMP "A" ON SHEET C-2.2
- TC1 — STABILIZED CONSTRUCTION ENTRY/EXIT POINT IN ACCORDANCE WITH BMP FACTS SHEET TC-1, SEE BMP "C" ON SHEET C-2.2
- WM1 — CONSTRUCT MATERIALS STORAGE AREA IN ACCORDANCE WITH BMP FACTS SHEET WM-1, SEE BMP "E" ON SHEET C-2.2
- WM8 — CONSTRUCT CONCRETE WASH OUT AREA. SEE BMP "F" ON SHEET C-2.2
- WM9 — CONSTRUCT SANITARY WASTE MANAGEMENT AREA IN ACCORDANCE WITH BMP FACTS SHEET WM-9.
- NS-9 — CONSTRUCT VEHICLE/EQUIPMENT REFUELING AREA IN ACCORDANCE WITH BMP FACTS SHEET NS-9, SEE BMP "G" ON SHEET C-2.2
- NS-10 — CONSTRUCT VEHICLE/EQUIPMENT MAINTENANCE AREA IN ACCORDANCE WITH BMP FACTS SHEET NS-10, SEE BMP "B" ON SHEET C-2.2
- A — SPEED LIMIT SIGN: 15 MPH

EROSION CONTROL NOTES:

1. IN CASE OF EMERGENCY, CALL CORNERSTONE ENGINEERING, INC. (661) 325-9474.
2. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
4. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL NOT BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECASE EXCEEDS 40%
5. AFTER A RAINSTORM ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS AND BASINS.
6. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE TO BE DIRECTED TOWARD DESILTING FACILITIES.
7. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATED A HAZARDOUS CONDITION.
8. THE UNDERSIGNED CIVIL ENGINEER SHALL INSPECT THE EROSION CONTROL WORK AND ENSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.

GRAPHIC SCALE
10' 5' 0' 5' 10'
(IN FEET)
1 inch = 10 ft.

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

NO. | DATE: | REVISION: | BY:

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DERRILL C. WHITTEN JR.
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SITE GRADING, DRAINAGE AND UTILITY PLAN
SPRINGVILLE LIBRARY
APN: 285-060-034

EROSION CONTROL PLAN

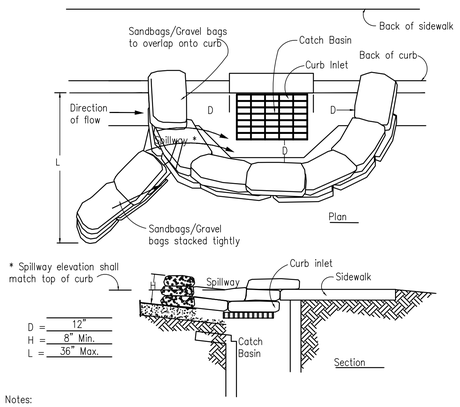
DESIGNER:	DGW
CHECKED BY:	DGW
DATE:	01/10/2024
DRAFTER	RAC
SCALE:	AS SHOWN
COMP. NO:	7650400_GRD
JOB NO.:	765-04-00

C-2.2 | SHEET 4 OF 6

BEST MANAGEMENT PRACTICES (BMP's)

General Notes

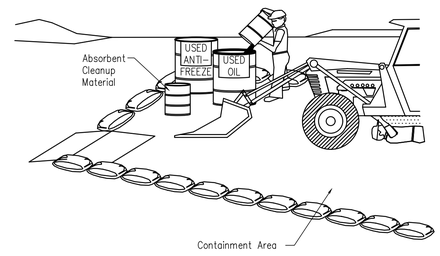
1. Best Management Practices (BMP's) contained herein reflect minimum requirements. Alternate methods providing equal or greater protection may be utilized. For additional BMP's refer to California Stormwater BMP Handbooks, available at WWW.CABMPHANDBOOKS.COM.
2. All construction activity shall be performed in accordance with a Stormwater Pollution Prevention Plan (SWPPP) developed and implemented in compliance with requirements of the Kern County Stormwater Management Program, National Pollution Discharge Elimination System (NPDES) Permit.
3. The SWPPP shall:
   a. Identify potential pollutant sources and include the design and placement of BMP's to effectively prohibit the entry of pollutants from the construction site into and onto the street and storm drain system during construction.
   b. Be kept on site and amended to reflect changing conditions throughout the coarse of construction.
   c. Be kept up to date. Any additional updates requested by agency representative are to be made immediately.
4. Non-Stormwater discharges are prohibited from entering any storm drain system and/or street.
5. Discharges of pumped ground water require a discharge permit from the State of California Regional Water Quality Control Board (RWQCB).
6. Pollutants shall be removed from stormwater discharges to the Maximum Extent Practicable (MEP) through design & implementation of the SWPPP.
7. A standby crew for emergency work shall be available at all times during the rainy season (Nov. 1 to Apr. 15). Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of emergency devices when rain is imminent.
8. Portable sanitary facilities shall be located on relatively level ground away from traffic areas, drainage courses, and storm drain inlets.
9. Employees, subcontractors and suppliers shall be educated on all BMP's including concrete waste storage and disposal procedures.
10. Sediment control practices shall effectively prevent a net increase of sediment load in stormwater discharge.



Notes:

1. Catch Basin/Inlet protection shall be installed wherever there is a potential of stormwater or non-stormwater being discharged into it.
2. Inlet protection is required along with other pollution prevention measures such as; erosion control, soil stabilization, and measures to prevent tracking onto paved surfaces.
3. Modify inlet protection as needed to avoid creating traffic hazards.
4. Include inlet protection measures at hillside v-ditches and misc. drainage swales.
5. Inlet protection shall be inspected and accumulated sediments removed. Sediment shall be disposed of properly and in a manner that assures that the sediment does not enter the storm drain system
6. Damaged bags shall be replaced immediately.
7. Additional sandbag sediment traps shall be placed at intervals as indicated on site plan.

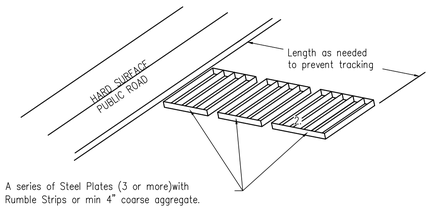
(A) CATCH BASIN / INLET PROTECTION



Notes:

1. Leaking vehicles and equipment shall not be allowed on-site. Equipment and vehicles shall be inspected frequently for leaks and shall be repaired immediately. Clean up spills and leaks promptly with absorbent materials; do not flush with water.
2. Vehicles and equipment shall be maintained, and repaired on-site only in designated areas.
3. Prevent run-on and run-off from designated areas. Containment devices shall be provided and areas shall be covered if necessary.
4. Designate on-site vehicle and equipment maintenance areas, away from storm drain inlets and watercourses.
5. Always use secondary containment, such as a drain pan or drop cloth, to catch spills and leaks when removing or changing fluids.
6. Legally dispose of used oils, fluids, and lubricants.
7. Provide spill containment dikes or secondary containment around stored oil, fuel, and chemical drums.
8. Maintain an adequate supply of absorbent spill cleanup materials in designated area.

(B) EQUIPMENT MAINTENANCE AREAS

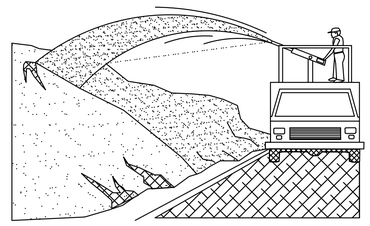


Notes:

1. Sediments and other materials shall not be tracked from the site by vehicle traffic. The construction entrance roadways shall be stabilized so as to prevent sediments from being deposited into the public roads. Depositions must be swept up immediately and may not be washed down by rain or other means into the storm drain system.
2. Stabilized construction entrance shall be:
   2.a. Located at any point where traffic will be entering or leaving a construction site to or from a public right of way, street, alley, and sidewalk or parking area.
   2.b. A series of steel plates with "rumble strips", and/or min 4" coarse aggregate with length, width & thickness as needed to adequatly prevent any tracking onto paved surfaces.
3. Adding a wash rack with a sediment trap large enough to collect all wash water can greatly improve efficiency.
4. All vehicles accessing the construction site shall utilize the stabilized construction entrance sites.

1. Remove all sediment deposited on paved roadways immediately.
2. Sweep paved areas that receive construction traffic whenever sediment becomes visible.
3. Pavement washing with water is prohibited if it results in a discharge to the storm drain system.

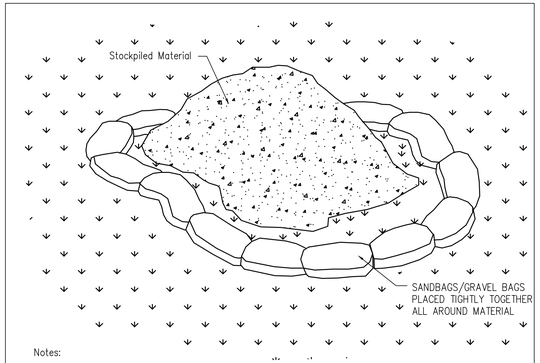
(C) STABILIZED CONSTRUCTION ENTRANCE



Notes:

1. Soil/Slope stabilization practices shall be designed to preserve existing vegetation where feasible and to revegetate open areas as soon as feasible after grading. These control practices shall include temporary seeding, permanent seeding, mulching, sod stabilization, vegetative buffer strips, protection of trees, or other soil stabilization practices.
2. Soil stabilization shall be implemented on all inactive disturbed areas from November 1 thru April 15 and on all disturbed areas during a rain event or potential rain.
3. Stabilization practices shall control/prevent erosion from the forces of wind and water.
4. Stabilization practices shall be implemented in conjunction with sediment trapping/filtering practices and practices to reduce the tracking of sediment onto paved roads.
5. When using straw mulching, the minimum application shall be 2 tons/acre. Mulch must be anchored immediately to minimize loss by wind or water.
6. When using hydroseeding/mulching, the minimum application of wood fiber shall be 1,500 lbs/acre, that does not contain more than 50 percent newsprint.
7. For seeding recommendations, contact: USDA, Natural Resources Conservation Service at 5000 California Avenue, Bakersfield, CA 93309-0725. Phone: (661) 336-0967.

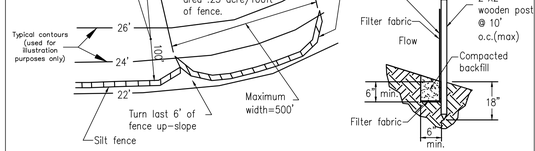
(D) EROSION CONTROL



Notes:

1. Dirt and other construction related materials placed in the street or on other impervious surfaces must be contained with sandbags or other measures to prevent transport to the stormdrain system.
2. Any construction material stored or stockpiled on-site shall be protected from being transported by the force of wind or water.

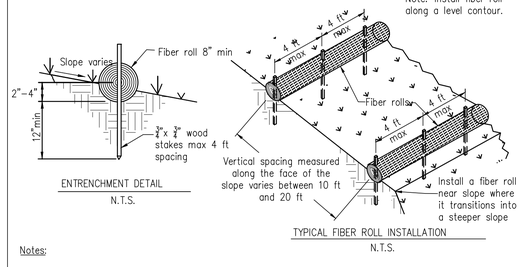
(E) MATERIAL STORAGE



Notes:

1. Construct the silt fence along a level contour.
2. Silt fences shall remain in place until the disturbed area is permanently stabilized.
3. Provide sufficient room for runoff to pond behind the fence and allow sediment removal equipment to pass between the silt fence and toe of slope or other obstructions. About 1200 sq. ft. of ponding area shall be provided for every acre draining to the fence.
4. Turn the ends of the filter fence uphill to prevent stormwater from flowing around the fence.
5. Leave an undisturbed or stabilized area immediately downslope from the fence.
6. Do not place in live stream or intermittently flowing channels.
7. When standard filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy-duty (0.6 inch) wire staples at least 1.75 inches long, tie wires or hog rings.
8. Filter fabric shall be woven polypropylene geotextile with a minimum width of 36 inches and a minimum tensile strength of 100 lb force.
9. Wood stakes shall be commercial quality lumber no less than 2 inch by 2 inch. Wood stakes shall be driven to a depth of no less than 18 inches from surface.

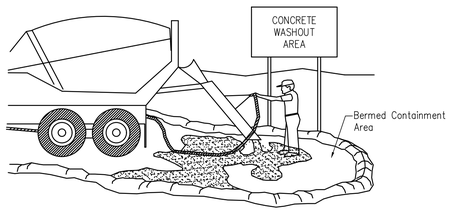
(H) SILT FENCE



Notes:

1. Place along the toe, top, face, and at grade breaks of exposed and erodible slopes.
2. Place on the down-slope of exposed soil areas.
3. Place around temporary stockpiles.
4. Place along the perimeter of a project.
5. Slopes greater than 1:5 may require the use of 20 inch diameter fiber rolls at the top of slopes.
6. Fiber rolls shall be either prefabricated or rolled tubes of erosion control blankets with a minimum 8 inch diameter.
7. Slopes 1:4 or flatter require fiber rolls to be placed no more than 20 feet apart.
8. Slopes 1:4 to 1:2 require fiber rolls to be placed no more than 15 feet apart.
9. Slopes 1:2 or greater require fiber rolls to be placed no more than 10 feet apart.
10. Fiber rolls shall be placed in a 2 to 4 inch deep trench.
11. Wooden commercial grade stakes, ¾" X ¾", shall be used to secure the fiber roll to the ground surface. Stakes shall be a minimum length of 24 inches and driven a minimum of 12 inches.
12. A single-stake installation requires the stakes to be placed no more than 2 feet apart.
13. If more than one fiber roll is placed in a row, the rolls shall be overlapped, not abutted, a minimum of 1 foot.

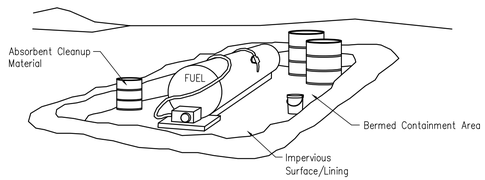
(I) FIBER ROLL



Notes:

1. Excess and waste concrete shall not be washed into the street or into a drainage system.
2. For washout of concrete and mortar products, a designated containment facility of sufficient capacity to retain liquid and solid waste shall be provided on site.
3. Slurry from concrete and asphalt saw cutting shall be vacuumed or contained, dried, picked up and disposed of properly.

(F) CONCRETE WASTE MANAGEMENT



Notes:

1. Fueling shall be performed in a designated area, away from drainage courses.
2. Absorbent cleanup material shall be on site and used immediately in the event of a spill.

(G) VEHICLE / EQUIPMENT FUELING

JAMES PATRICK FOGARTY, AIA
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SITE GRADING, DRAINAGE AND UTILITY PLAN
SPRINGVILLE LIBRARY
BEST MANAGEMENT PRACTICES (BMPs)

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DATE:	01/10/2024
DRAFTER	RAC
SCALE:	AS SHOWN
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C-2.3 | SHEET 5 OF 6

LICENSED ARCHITECT
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EXP. 08-30-25
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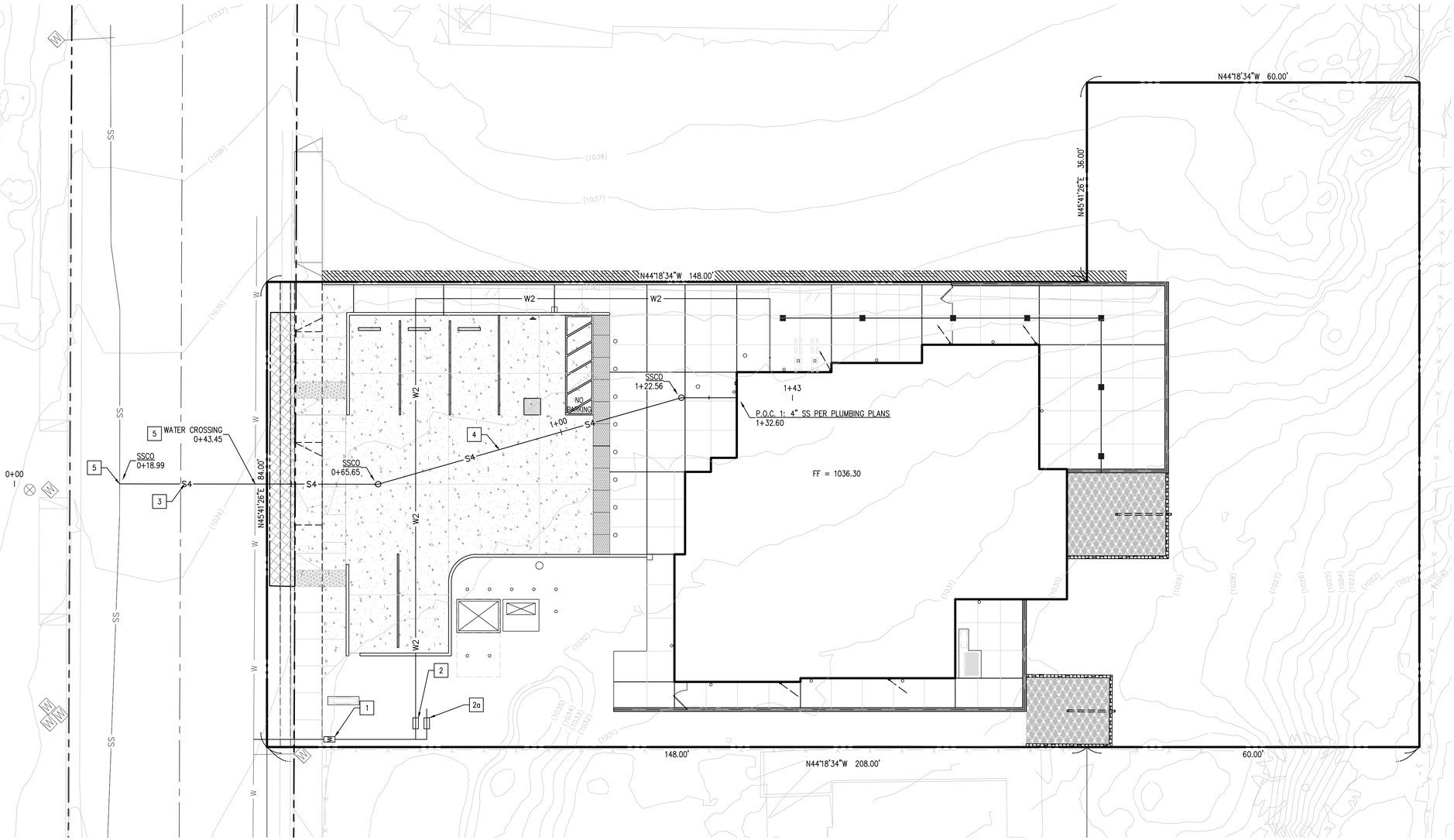
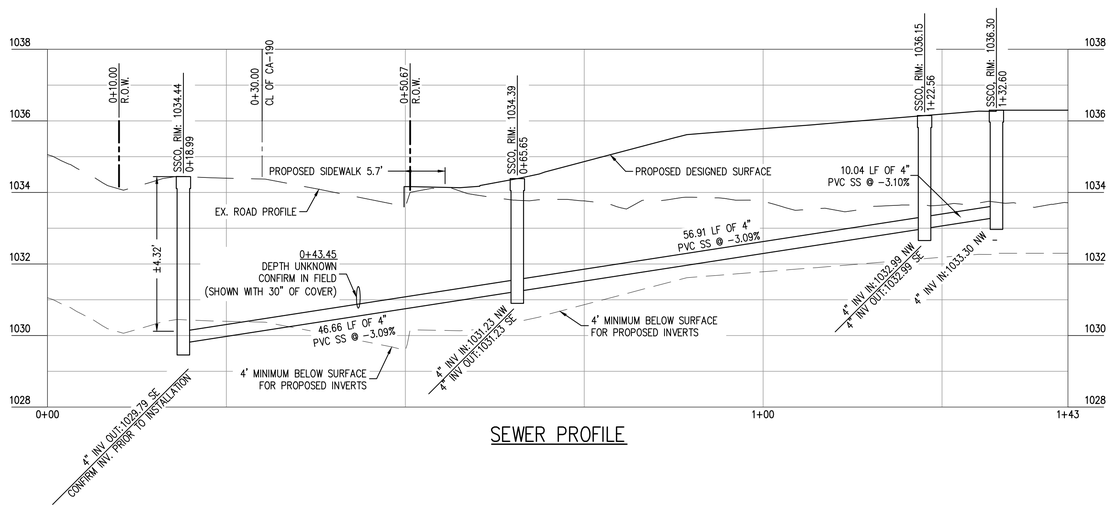


LEGEND

- W12 — EXISTING WATER MAIN & SIZE
- S12 — EXISTING SANITARY SEWER PIPE & SIZE
- EXISTING POWER POLE
- T — EXISTING TELEPHONE LINE
- OE — EXISTING OVERHEAD ELECTRICAL LINE
- G — EXISTING BURIED GAS PIPE
- TV — EXISTING BURIED CABLE TV
- EXISTING UTILITY VAULT
- EXISTING TELEPHONE POLE w/GUY WIRE
- EXISTING STREET LIGHT
- D S — EXISTING STORM DRAIN/SEWER MANHOLE
- EXISTING FENCELINE
- EXISTING FIRE HYDRANT
- EXISTING VALVE BOX
- W — EXISTING WATER METER
- G — EXISTING GAS METER
- CO — EXISTING SEWER CLEANOUT
- (303) — EXISTING CONTOUR W/ELEVATION
- SITE BOUNDARY
- S6 — NEW SANITARY SEWER LINE & SIZE
- W8 — NEW WATER LINE & SIZE
- D12 — NEW STORM DRAIN LINE & SIZE
- NEW WATER VALVE
- W — NEW WATER METER
- FS 305.50 — = PROPOSED GRADE ELEVATION
- 2.0% — = PROPOSED GRADIENT
- FL = FLOWLINE
- FS = FINISHED SURFACE
- FF = FINISHED FLOOR
- FG = FINISHED GRADE
- FP = FINISHED PAD
- INV = INVERT OF PIPE
- TC = TOP OF CONCRETE
- TG = TOP OF GRATE
- TP = TOP OF PAVEMENT
- GB = GRADE BREAK
- LS = LANDSCAPE
- C.O.B. = CITY OF BAKERSFIELD

UTILITY CONSTRUCTION NOTES

1. UNDER AN ENCROACHMENT PERMIT, INSTALL 1" WATER SERVICE WITH A 1" METER PER SPRINGVILLE P.U.D. STANDARDS.
2. INSTALL 1 1/2" SCH 40 PVC WATER SERVICE WITH BACKFLOW DEVICE ON LINE TO P.O.C. ON BUILDING PLANS.
2a. INSTALL 1" SCH 40 PVC WATER SERVICE WITH BACKFLOW DEVICE FOR LS SERVICE AT P.O.C. ON LS PLANS.
3. UNDER ENCROACHMENT PERMIT, INSTALL SEWER MAIN CONNCECTION INTO EXISTING SPRINGVILLE P.U.V. SEWER MAIN.
4. INSTALL 56.9' OF 4" SEWER MAIN WITH 1 C.O. @ ANGLE POINT.
5. PRIOR TO INSTALLATION CONTRACTOR SHALL POTHOLE THE SEWER P.O.C AND WATER POINT OF CROSSING TO CONFIRM INSTLLATION APPROACH.



SEWER PROFILE

GRAPHIC SCALE
10' 0' 10'
HORIZ: 1"=10'
VERT: 1"=2'

GRAPHIC SCALE
10' 5' 0' 5' 10'
(IN FEET)
1 inch = 10 ft.

NO. | DATE: | REVISION: | BY:

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SEWER AND WATER

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C-2.4 | SHEET 6 OF 6

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT OR ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.
2. NOTES & DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
3. ALL MATERIAL & WORKMANSHIP SHALL CONFORM TO THE 2021 INTERNATIONAL BUILDING CODE AND THE 2022 CALIFORNIA BUILDING CODE.
4. THE DESIGN, ADEQUACY & SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, FORMS ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO INSURE THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ALL WALLS, ROOF & FLOOR SHEATHING AND FINISH MATERIALS. HE SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE AFOREMENTIONED MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH OSHA REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, THE ADDITION OF ANCHOR BOLTS AND/OR TEMPORARY BRACING TO INSURE COLUMN STABILITY DURING CONSTRUCTION. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
5. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR SITE SAFETY. ANY FABRICATOR AND ERECTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND IF THE STRUCTURE, AS SHOWN ON THOSE DOCUMENTS, IS IN CONFLICT WITH THE REQUIREMENTS OF ANY SAFETY REGULATION, THE FABRICATOR SHALL NOTIFY THE STRUCTURAL ENGINEER PRIOR TO COMMENCING SHOP DRAWING PRODUCTION. IF THE FABRICATOR AND/OR ERECTOR FAIL TO NOTIFY THE ENGINEER OF RECORD, AS STATED ABOVE, THEY SHALL BECOME RESPONSIBLE FOR ALL COSTS FOR CORRECTING SUCH CONFLICTS WITH THE REQUIREMENTS OF ANY AND ALL SAFETY REGULATIONS.
6. VIBRATIONAL EFFECTS OF MECHANICAL EQUIPMENT HAVE NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER.
7. CONCRETE SLAB ON GRADE HAS NOT BEEN DESIGNED BY THE STRUCTURAL ENGINEER FOR:
   A). ANY CONSTRUCTION LOADS (I.E. CRANES, CONCRETE TRUCKS OR ETC.)
   B). ANY SPECIFIC OCCUPANT SERVICE LOADS (I.E. FORKLIFTS, STORAGE RACKS, OR ETC.)
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
9. ALL EXPANSION JOINTS IN THE BUILDING SHALL CONTINUE THEIR FULL WIDTH THROUGH ALL STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED OTHERWISE. FOR EXPANSION JOINT LOCATIONS SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS.
10. THE STRUCTURAL ENGINEER REQUIRES 5 TO 10 WORKING DAYS FROM WHEN THE SHOP DRAWINGS ARE RECEIVED UNTIL THE TIME THEY ARE SENT OUT OF THE OFFICE. THE TIME FOR PROCESSING MAY VARY FURTHER, DEPENDING UPON THE VOLUME OF DRAWINGS RECEIVED AT ONE TIME. CONTRACTOR SHALL FURNISH ONE PRINTED COPY FOR THE STRUCTURAL ENGINEER'S RECORDS IN ADDITION TO OTHER COPIES.
11. FOR ROOF ELEVATIONS, AND SIZE AND LOCATION OF MECHANICAL UNITS AND ETC., REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS, UNLESS NOTED OTHERWISE.
12. DESIGN CRITERIA:
   A. DEAD AND LIVE LOADS
      SEE FRAMING PLANS
   B. OCCUPANCY CATEGORY: III
   C. WIND LOADS:
      BASIC WIND SPEED, V_{3S} = 105 MPH
      WIND IMPORTANCE FACTOR, I = 1.0
      WIND EXPOSURE = C
      INTERNAL PRESSURE COEFFICIENT = ±0.18
      COMPONENTS AND CLADDING WIND PRESSURE = 21.6 PSF
   D. SEISMIC DESIGN CRITERIA:
      SEISMIC IMPORTANCE FACTOR, I = 1.0
      SEISMIC DESIGN CATEGORY: D
      SITE CLASS = D
      SEISMIC FORCE RESISTING SYSTEM: LIGHT-FRAMED WOOD SHEAR WALLS
      R= 6.5 Ω_o= 2.5
      S_S= 0.75g F_a= N/A S_{DI}= N/A
      S_I= 0.23g F_V= N/A S_{DI}= 0.68g
      Cs=
      ANALYSIS PROCEDURE = EQUIVALENT STATIC FORCE METHOD

FOUNDATIONS:

1. DESIGN SOIL PRESSURE = 3,000 PSF (COLUMN FOOTINGS)
   2,500 PSF (WALL FOOTINGS)

   BASED ON SOILS INVESTIGATION
   NEW LIBRARY SPRINGVILLE, CA.
   SOILS REPORT BY: DC INSPECTIONS
   DATE: JULY 5, 2022, FEBRUARY 24,2023
   PROJECT NO.: N/A
2. SOIL CLASSIFICATION: MEDIUM TO VERY DENSE SILTY SAND
3. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING ANY REINFORCING IN THE EXCAVATED TRENCHES.
4. REFER TO GEOTECHNICAL REPORT FOR EXTENT OF SITE OVER-EXCAVATION AND RECOMPACTION.
5. NOTE: ALL FOOTINGS SHALL BEAR ON NATIVE UNCEMENTED SOILS OR COMPACTED GRANULAR FILL.

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE GRADE 60 EXCEPT FOR #3 AND SMALLER WHICH MAY BE GRADE 40 IN ACCORDANCE WITH A.S.T.M. A615 UNLESS OTHERWISE NOTED. A.S.T.M. A706 WHERE WELDED. ALL WELDED DEFORMED STEEL WIRE FABRIC SHALL BE GRADE 60 OR GRADE 80 IN ACCORDANCE WITH ASTM A497.
2. ALL WELDED REINFORCING STEEL SHALL BE A.S.T.M. A706. LOW HYDROGEN E70XX OR E80XX WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS. ALL WELDING OF REINFORCING STEEL SHALL BE DONE BY AN APPROVED FABRICATOR OR HAVE CONTINUOUS INSPECTION BY AN INDEPENDENT INSPECTION AGENCY.
3. REINFORCING STEEL SPECIFICALLY NOTED AS A706 THAT IS NOT WELDED MAY BE A615 GRADE 60 IF (1) THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18000 PSI, AND (2) THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL TENSILE YIELD STRENGTH IS NOT LESS 1.25. MILL REPORTS AND AFFIDAVIT OF COMPLIANCE IS REQUIRED.
4. BARS NOTED AS "CONTINUOUS", TYPICAL WALL REINFORCING, AND VERTICAL COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE EQUAL TO STANDARD LAP SPLICE. STANDARD LAP SHALL BE 48 BAR DIAMETER IN MASONRY WHEN SPACING BETWEEN ADJACENT BARS IS GREATER THAN 3", 62 BAR DIAMETER IN MASONRY WHEN SPACING BETWEEN ADJACENT BARS IS 3 INCHES OR LESS, AND IN CONCRETE 60 BAR DIAMETER FOR #6 & SMALLER, 72 BAR DIAMETER FOR #7 & LARGER.
5. REINF. SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. ALL VERTICAL WALL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN SPLICE LOCATIONS SHOWN IN THE DETAILS. ALL VERTICAL WALL REINF. SHALL HAVE NO SPLICES EXCEPT AT THE FOUNDATIONS, UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
6. SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STAGGERED 4'-0" MINIMUM UNLESS OTHERWISE NOTED.
7. PROVIDE DOWELS IN FOOTINGS AND/OR GRADE BEAMS THE SAME SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING. DOWELS SHALL HAVE A MINIMUM PROJECTION EQUAL TO STANDARD LAP SPLICES UNLESS OTHERWISE NOTED.
8. ALL REINFORCING, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY.
9. PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE:
   CLEAR 3" BELOW GRADE (UNFORMED)
   CLEAR 2" BELOW GRADE (FORMED)
   CLEAR 1" WALLS
   CLEAR 1½" COLUMNS
   CLEAR 1½" BEAMS AND GIRDERS
   CLEAR ¾" STRUCTURAL SLAB (ABOVE GRADE)
10. #5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF STRUCTURAL ENGINEER.
11. SUBMITTAL OF REBAR SHOP DRAWINGS IS NOT REQUIRED BY THE STRUCTURAL ENGINEER FOR THIS PROJECT. REBAR SHOP DRAWINGS WILL NOT BE REVIEWED BY THE STRUCTURAL ENGINEER
12. REINFORCING STEEL BAR SIZES INDICATED ON THESE DRAWINGS ARE BASED UPON INCH-POUND BAR SIZE DESIGNATION. FOR SOFT METRIC BAR SIZES REFER TO THE CONVERSION CHART BELOW.

CONVERSION CHART									
INCH-POUND BAR SIZE DESIGNATION	#3	#4	#5	#6	#7	#8	#9	#10	#11
SOFT METRIC BAR SIZE DESIGNATION	#3	#4	#5	#6	#7	#8	#9	#10	#11

CONCRETE:

1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE:
   FOOTINGS = 3,000 PSI
   SLAB ON GRADE = 2,500 PSI
   PRECAST PANELS = 3,000 PSI
2. THE MINIMUM
3. CONTINUOUS INSPECTION BY A SPECIAL INSPECTOR IS REQUIRED OF ALL CONCRETE PLACEMENT EXCEPT FOR SLABS ON GRADE AND 2500 PSI FOUNDATION CONCRETE.
4. LOCATIONS OF CONSTRUCTION OR POUR JOINTS MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
5. PIPES OR DUCTS EXCEEDING ONE THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
6. PIPES MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES, BUT SHALL NOT BE EMBEDDED THEREIN.
7. PROVIDE 3/4" CHAMFERS AT ALL EXPOSED CORNERS.
8. REFER TO ARCH'L DWGS. FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE CAST IN CONCRETE, AND OR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.

LUMBER:

1. ALL LUMBER SHALL BE DOUGLAS FIR LARCH OF THE FOLLOWING GRADES UNLESS OTHERWISE NOTED. SAWN LUMBER SHALL HAVE A MOISTURE CONTENT OF NOT MORE THAN 19% DURING CONSTRUCTION.

ITEM	MINIMUM GRADE
STUDS 2" THICK, 4" WIDE (8'-2" MAX. HT. 2" THICK, 4" WIDE TO 8" WIDE	STUD GRADE NO. 2
LIGHT FRAMING 2x4, TO 4x4 INCLUSIVE	NO. 1
JOIST & RAFTERS 2x4, TO 4x16 INCLUSIVE	NO. 1
EBAMS & STRINGERS 5" & THICKER, 6" & WIDER	NO. 1
POSTS & TIMBERS 5"x5" AND LARGER	NO. 1
MISCELLANEOUS LUMBER BLOCKING, FURRING, ETC.	NO. 2
DECKING & SHEATHING 2x, 3x, 4x	COMM'L DEX.

2. ALL STRUCTURAL LUMBER SHALL BE GRADED IN ACCORDANCE WITH GRADING AND DRESSING RULES #17 OF THE WEST COAST LUMBER INSPECTION BUREAU AND SHALL BEAR A GRADE STAMP.
3. ALL WOOD EXPOSED TO WEATHER OR IN CONTACT WITH SOIL AND ALL WOOD BEARING ON CONCRETE OR MASONRY IF LESS THAN 4'-0" ABOVE GRADE SHALL BE PRESSURE TREATED DOUGLAS FIR. GLU LAMS SHALL BE TREATED AFTER FABRICATION. PRESSURE TREATMENT IS NOT REQUIRED FOR EXPOSED MEMBERS OF HEARTWOOD CEDAR OR REDWOOD WHEN THIS LUMBER IS SPECIFIED.
4. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY NOTED OR DETAILED.
5. 2X SOLID BLOCKING SHALL BE PLACED BETWEEN JOISTS OR RAFTERS WHEN SUPPORT IS ON TOP OF A BEAM OR WALL.
6. HOLES FOR BOLTS SHALL BE BORED 1/32" TO 1/16" LARGER THAN NOMINAL BOLT DIAMETER (THIS INCLUDES HOLES FOR ANCHOR BOLTS IN SILL PLATES.)
7. ALL BOLTS BEARING ON WOOD SHALL HAVE WASHERS UNDER HEAD AND/OR NUT. SEE SCHEDULE.
8. ALL BOLTS SHALL BE RETIGHTENED PRIOR TO APPLICATION OF PLASTER, PLYWOOD, ETC.
9. ALL BOLTS SHALL CONFORM TO ASTM A-307 OR ASTM A-36 WITH CUT THREADS.
10. CROSS BRIDGING SHALL BE PROVIDED AT 8'-0"o/c. MAXIMUM FOR ALL SAWN JOISTS & RAFTERS MORE THAN 8" IN DEPTH.
11. PROVIDE 1x6 DIAG. LET-IN BRACING (AT APPROX. 45°) EVERY 25'-0" IN ALL STUD WALLS NOT SHEATHED. BRACE SHALL RUN CONT. FROM TOP ℞ TO SILL PLATE. ALTERNATE TO 1x6 MAY BE SIMPSON CWB METAL BRACING.
12. SILL PLATES, NAILERS, AND LEDGERS SHALL HAVE A MINIMUM OF TWO BOLTS PER PIECE, WITH ONE BOLT LOCATED WITHIN 9" OF EA. END OF EA. PIECE.
13. LAG BOLTS & WOOD SCREWS SHALL CONFORM TO ASTM A-36 W/ CUT THREADS.
14. LAG BOLTS SHALL HAVE LEAD HOLES BORED BEFORE INSTALLING. HOLE DIAMETERS SHALL BE AS FOLLOWS: SHANK PORTION - SAME DIAMETER AND LENGTH OF SHANK. THREAD PORTION - 0.40 TO 0.70 DIAMETER OF THREAD AND SAME LENGTH.
15. INSTALL SAWN LUMBER FOR FLOOR OR ROOF MEMBERS WITH NATURAL CROWN SIDE UP.

NAILING SCHEDULE:

THIS NAILING IS TYPICAL UNLESS OTHERWISE NOTED OR DETAILED. TYPICAL NAILS MAY BE BOX OR SINKER NAILS. SPECIFICALLY DETAILED CONNECTIONS MAY BE BOX OR SINKER NAILS (SEE CONNECTING HARDWARE BELOW FOR EXCEPTION)		MIN. LENGTH FASTENER
1. JOIST OR RAFTERS TO SIDES OF STUDS 8" INCH JOIST OR LESS FOR EACH ADDITIONAL 2 INCHES IN DEPTH OF JOIST	3-16d 1-16d	3"
2. BRIDGING TO JOIST, TOENAIL EACH END a. BLOCKING BETWEEN JOISTS OR RAFTERS-TO JOISTS OR RAFTERS-TOENAILS EA. SIDE, EA. END	2-8d 2-10d 2-10d TOENAILS	2 ⅜"
b. BLOCKING BETWEEN STUDS, EACH END	2-16d ENDNAILS	3"
3. BLOCKING BETWEEN JOISTS OR RAFTERS TO BEAM OR TOP PLATE,	10d @ 16" O/C	2 ⅜"
TOE NAIL @ BOTTOM	MIN. 2-10d PER BLOCK	3"
4. TOP PLATE TO STUD, END NAIL	2-16d	3"
5. STUD TO SOLE PLATE	4-8d, TOENAIL OR	2 ⅜"
STUD TO HEADER BEAM	2-16d, END NAIL	3"
6. DOUBLE STUDS, FACE NAIL	16d @ 24" O/C	3"
7. DOUBLED TOP PLATES, FACE NAIL	16d @ 16" O/C	3"
8. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d	3"
9. DBL. TOP ℞ SPLICE (4'-0" MIN.) EA. SIDE OF BUTT IN TOP ℞, FACE NAIL.	8-16d	3"
10. INTERRUPTIONS OF DOUBLE TOP PLATES OR SOLE PLATES FOR BEAMS, PIPES, OR ETC.	1 ½"x18 GA. STRAP W/ 6-16d EA. END	3"
11. JOIST OR RAFTERS AT ALL BEARINGS- TOENAILS, EACH SIDE	3-8d	2 ⅜"
12. CONTINUOUS RIM JOIST OR RAFTER TO TOP PLATES - TOE NAIL @ BOTTOM	10d @ 16" O/C	2 ⅜"
13. 2x LEDGER TO STUDS - NAILS EACH STUD 6" LEDGER OR LESS FOR EACH ADDITIONAL 2 INCHES IN DEPTH OF LEDGER	2-16d 1-16d	3"
14. 1" BRACE TO EACH STUD AND PLATE, FACE NAIL	2-8d	2 ⅜"
15. BUILT-UP GIRDER AND BEAMS	20d @ 32" O/C @ TOP & BOTTOM & STAGGERED 2-20d AT ENDS AND AT EACH SPLICE	4"
16. BUILT-UP CORNER STUDS	16d @ 24" O/C FACE NAIL	3"
17. 2" PLANKS AND DECKING - FACE NAIL	2-16d EA. BEARING 16d @ 16" O/C @ CONT. BEARING	3"
18. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d	3"
19. WALL SHEATHING (GYP. BD., PLYWOOD & ETC.) NAILING OR SCREWS PER CODE MIN. OR AS SHOWN ON PLANS WITH NAILS OR SCREWS TO ALL STUDS TOP AND BOTTOM PLATES.		

CONNECTING HARDWARE

ALL CONNECTING HARDWARE, JOIST HANGERS, TIE STRAPS, ETC., SHALL BE SIMPSON "STRONG-TIE" UNLESS OTHERWISE NOTED OR SHOWN. FILL ALL CONNECTOR HOLES WITH SAME SIZE AND LENGTH NAILS SHOWN IN MANUFACTURERS CURRENT CATALOG. NO SUBSTITUTIONS, MODIFICATIONS OR CONVERSIONS TO NAIL SIZES ALLOWED.
USE OF BOX OR SINKER NAILS IS NOT ALLOWED.

CONCRETE BLOCK MASONRY:

1. MASONRY SHALL CONFORM TO:
   A. IBC CHAPTER 21
   B. ACI 530.1-05/ASCE 6-05/TMS 602-05
   C. AND THE FOLLOWING REQUIREMENTS:

MASONRY MATERIAL PROPERTIES			
	MINIMUM COMPRESSIVE STRENGTH (PSI)	STANDARD	TYPE
MASONRY	f'm = 1,500 PSI	IBC TABLE 2105.2.2.1.2 OR ASTM C1314	RUNNING BOND PATTERN
BLOCK UNITS	1,900	ASTM C90	GRADE N (TYPE 1) MEDIUM WEIGHT
MORTAR	1,800	ASTM C270	S
GROUT	2,000	ASTM C476	COARSE
CEMENT	–	ASTM C150	PORTLAND
LIME	–	ASTM C207	HYDRATED TYPE N OR S

2. COMPRESSIVE STRENGTH OF MASONRY SHALL BE DETERMINED BY "UNIT STRENGTH METHOD" OR "PRISM TEST METHOD" AS DEFINED BY THE IBC.
3. SEE ARCHITECTURAL FOR TYPE, COLOR, TEXTURE, AND JOINT DETAILS FOR CONCRETE BLOCKS/MORTAR.
4. USE OPEN-END BLOCKS TO ACCOMPLISH CONTINUOUS VERTICAL REINFORCEMENT.
5. MORTAR SHALL CONFORM TO THE "PROPORTIONS SPECIFICATIONS" OF IBC TABLE 2103.8(1) AND ASTM C270 TABLE 1.
6. BED JOINT THICKNESS SHALL BE ⅜" NOMINAL AND WITHIN THE TOLERANCES OF ARTICLE 3.3G OF AC1 530.1. CROSS WEBS SHALL BE FULL BEDDED IN MORTAR IN ALL COURSES OF WALL PIERS, COLUMNS, PILASTERS, AND IN THE STARTING COURSE ON FOUNDATIONS.
7. WALL PIERS ARE DEFINED AS WALLS LESS THAN 4'-0" LONG FOR 8" CMU AND 6'-0" LONG FOR 12" CMU.
8. SOLID GROUT ALL CELLS.
9. GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476.
10. GROUT SHALL CONTAIN MASONRY "GROUT-AID" ADDITIVE OR EQUAL TO REDUCE SHRINKAGE. (FLY ASH SHALL NOT BE USED).
11. MAXIMUM GROUT POUR HEIGHT SHALL NOT EXCEED 5'-0" FOR LOW-LIFT GROUTED CONSTRUCTION (SEE BELOW FOR HIGH-LIFT CONSTRUCTION).
12. MAXIMUM GROUT LIFT HEIGHT SHALL NOT EXCEED 5'-0".
13. VERTICAL CELLS SHALL HAVE VERTICAL ALIGNMENT THAT MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL. MINIMUM GROUT SPACE FOR VERTICAL CELLS SHALL BE 2½"x3". DOWELS FROM FOOTINGS SHALL BE SET TO ALIGN WITH CORE CONTAINING VERTICAL WALL REINFORCEMENT.
14. CONCRETE SURFACES SHALL BE CLEANED OF ALL LAITANCE PRIOR TO SETTING OF BLOCKS.
15. SPLICE VERTICAL REINFORCEMENT ONLY WHERE INDICATED ON THE STRUCTURAL DRAWINGS.
16. GROUT POURS SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION.
17. REINFORCEMENT SHALL HAVE MINIMUM ½" GROUT CLEARANCE TO SURFACE OF MASONRY BLOCK UNITS.
18. PIPES, CONDUITS, AND SLEEVES SHALL NOT BE USED IN WALL PIERS, COLUMNS, OR PILASTERS UNLESS SPECIFICALLY DETAILED. PIPES CONTAINING LIQUID, GAS, OR VAPORS SHALL NOT BE EMBEDDED IN MASONRY. CONDUITS, PIPES, AND SLEEVES SHALL NOT BE ALUMINUM AND SHALL BE COMPATIBLE WITH MASONRY. PIPES, CONDUITS, AND SLEEVES SHALL BE SPACED 3 DIAMETERS ON CENTER MINIMUM. FOR CONDUITS IN MASONRY.
19. WHERE "HIGH LIFT GROUTED CONSTRUCTION" IS USED THE MAXIMUM POUR HEIGHT SHALL BE 12 FEET. MINIMUM GROUT SPACE SHALL BE 3"x3" WHERE HIGH LIFT GROUTING IS USED. "CLEAN-OUTS" SHALL BE PROVIDED PER ACI 530.1, SECTION 3.2F.

ANCHORS AND DOWELS EMBEDDED IN EPOXY:

1. ANCHORS OR DOWELS EMBEDDED IN EPOXY SHALL BE, INSTALLED PER MANUFACTURE'S INSTRUCTIONS.
2. CORRECT IMPLEMENTATION OF THE MANUFACTURE'S INSTRUCTIONS FOR INSTALLATION SHALL BE VERIFIED BY A SPECIAL INSPECTOR.
3. ONLY NON-REBAR-CUTTING DRILL BITS SHALL BE USED TO DRILL HOLES IN EXISTING CONCRETE.
4. ANCHOR OR DOWEL EMBEDMENT SHALL BE VERIFIED AND DOCUMENTED BY A SPECIAL INSPECTOR.
5. "HILTI" C-100 EPOXY SHALL ONLY BE USED IN CONCRETE AND CONCRETE MASONRY UNITS, AND C-20 EPOXY IN BRICK, WHEN SPECIFIED IN STRUCTURAL PLANS, IN ACCORDANCE WITH ICBO # 4419.
6. DRILL HOLES SHALL BE CLEAN OF CONCRETE DUST AND DEBRIS USING EITHER A NYLON BRUSH AND A VACUUM OR A NYLON BRUSH AND OIL-FREE COMPRESSED AIR. A BLOW-OUT BULB MAY BE USED IF A VACUUM OR COMPRESSED AIR IS NOT AVAILABLE. CLEANLINESS OF DRILL HOLES SHALL BE VERIFIED AND DOCUMENTED BY SPECIAL INSPECTOR.

ABBREVIATIONS:

(SEE ARCH'L AND OTHER STANDARDS FOR ADD'L)

ALT.	=	ALTERNATE
B	=	BOTTOM
B. ℞	=	BASE PLATE
BM.	=	BEAM
C.	=	CAMBER
C.J.	=	CONSTRUCTION JOINT
℄	=	CENTER LINE
CONC.	=	CONCRETE
CONT.	=	CONTINUOUS
CTSK.	=	COUNTER SUNK
D.	=	DEPTH
E.F.	=	EACH FACE
E.W.	=	EACH WAY
EXP.	=	EXPANSION
E.J.	=	EXPANSION JOINT
F.O.C.	=	FACE OF CONCRETE
F.O.M.	=	FACE OF MASONRY
F.O.S.	=	FACE OF STUD
F.S.	=	FAR SIDE
GLB	=	GLUE-LAMINATED BEAM
G.B.	=	GRADE BEAM
HDR.	=	HEADER
HGR.	=	HANGER
H.R.	=	HARDROCK (CONCRETE)
HSS	=	HOLLOW STRUCTURAL SECTION
K.	=	KIPS
K.P.	=	KING POST
LLV.	=	LONG LEG VERTICAL
LLH.	=	LONG LEG HORIZONTAL
LT. WT.	=	LIGHT WEIGHT (CONCRETE)
M.B.	=	MACHINE BOLT
N.T.S	=	NOT TO SCALE
N.S.	=	NEAR SIDE
OPP.	=	OPPOSITE ON CENTER
O.C.	=	ON CENTER
OWJ	=	OPEN WEB JOIST
℞	=	PLATE
PIL.	=	PILASTER
P.J.	=	PANEL JOINT
PWJ.	=	WOOD 'I' JOIST
PTDF.	=	PRESSURE TREATED DOUGLAS FIR
P/T	=	POST-TENSIONED (CONCRETE)
S.A.D.	=	SEE ARCHITECTURAL DRAWINGS
S.D.S	=	SELF DRILLING SCREW
SIM.	=	SIMILAR
S.M.S.	=	SHEET METAL SCREW (SAME AS SDS)
S.P.C.	=	STANDARD PIPE COLUMN
STL.	=	STEEL
T.O.F.	=	TOP OF FOOTING
T.O.S.	=	TOP OF STEEL
T.O.W.	=	TOP OF WALL
TS.	=	TUBE STEEL
TYP.	=	TYPICAL
U.N.O	=	UNLESS NOTED OTHERWISE
V.I.F.	=	VERIFY IN FIELD
W.S.	=	WOOD SCREW
(E)	=	EXISTING (CONSTRUCTION)
(N)	=	NEW (CONSTRUCTION)

STRUCTURAL OBSERVATION:

1. STRUCTURAL OBSERVATION IS REQUIRED FOR THIS PROJECT THE CLIENT SHALL EMPLOY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR ANOTHER ENGINEER OR ARCHITECT DESIGNATED BY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN TO PERFORM STRUCTURAL OBSERVATION AS DEFINED IN UBC SECTION 1702.
2. STRUCTURAL OBSERVATION IS REQUIRED FOR THE FOLLOWING:
   A. GRADE BEAMS
   B. AT BUILDING FINAL
3. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR AND THE BUILDING OFFICIAL.
4. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAS BEEN RESOLVED.
5. THE WRITTEN STATEMENT SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BEFORE REQUESTING ANY APPLICABLE BUILDING INSPECTION.

STRUCTURAL TESTS & INSPECTIONS REQUIRED FOR THIS PROJECT:

1. REFER TO SECTIONS 109 AND 1704 OF THE 2018 INTERNATIONAL BUILDING CODE FOR AMPLIFICATION OF THE FOLLOWING REQUIREMENTS: ALL CERTIFIED SPECIAL INSPECTORS MUST SUBMIT FINAL REPORTS AS SOON AS TESTS AND INSPECTIONS ARE PERFORMED. REPORTS SHALL BE DISTRIBUTED TO THE OWNER, CONTRACTOR, ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT AS REQUIRED. ALL TEST AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER OR AGENT OF THE OWNER AND NOT THE CONTRACTOR PER IBC SECTION 1704

	INSPECTION FREQUENCY	TEST/INSPECTION REQ'D FOR THIS PROJECT (YES/NO)
2. FOUNDATIONS:		
A. CLASSIFICATION AND TESTING OF COMPACTED FILL INCLUDING UTILITY TRENCHES.	CONTINUOUS	NO
B. MATERIALS, DENSITIES, AND LIFT THICKNESS OF COMPACTED FILL WITH DEPTHS GREATER THAN 12", INCLUDING UTILITY TRENCHES.	CONTINUOUS	NO
C. VISUAL EXAMINATION & APPROVAL OF ALL FOUNDATION EXCAVATIONS AND MATERIALS BELOW FOOTINGS.	PERIODIC	YES
D. EXPANSION INDEX EVALUATION OF PAD.	CONTINUOUS	NO
3. CONCRETE:		
A. TEST SPECIMENS, SLUMP, AIR CONTENT, TEMPERATURE FOR CONCRETE OVER 2500 PSI EXCEPT SLAB-ON-GRADE.	CONTINUOUS	YES
B. CONCRETE PLACMENT.	CONTINUOUS	YES
C. USE OF DESIGN MIX.	PERIODIC	YES
D. SHAPE, LOCATION, AND DIMENSIONS OF FORMWORK.	PERIODIC	NO
E. VISUAL INSPECTION OF BOLTS AND EMBEDED PLATES INSTALLED IN CONCRETE (DURING INSTALLATION & PLACING OF CONCRETE).	CONTINUOUS	YES
4. REINFORCING STEEL:		
A. SIZE, GRADE, TYPE, AND PLACING OF REINFORCING.	PERIODIC	YES
B. PLACING & STRESSING OF TENDONS.	CONTINUOUS	NO
C. SAMPLING & TESTING OF STEEL (MILL REPORTS & IDENTIFICATION OF STEEL).	CONTINUOUS	NO
5. WELDING:		
A. SPECIAL INSPECTOR VERIFICATION OF MATERIALS, QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS PRIOR TO START OF WORK.		YES
B. VISUAL INSPECTION OF ALL STRUCTURAL WELDING (EXCEPT AS LISTED IN ITEM C.)	CONTINUOUS	YES
C. VISUAL INSPECTION OF SINGLE PASS FILLET WELDS NOT EXCEEDING $\frac{5}{16}$" INCH, FLOOR & ROOF DECK WELDING, WELDED STUDS, SHEET METAL, COLD FORMED STEEL FRAMING, STAIRS AND RAILING SYSTEMS, AS ALLOWED PER IBC SECTION 1704.3 EXCEPTIONS.	PERIODIC	YES
D. VISUAL INSPECTION OF WELDING OF REINFORCING STEEL.	CONTINUOUS	YES
E. VERIFY WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	PERIODIC	YES
F. NON-DESTRUCTIVE TESTING OF FULL PENETRATION WELDS IN MATERIALS EXCEEDING ¼" THICK.	CONTINUOUS	NO
6. BOLTING:		
A. VISUAL INSPECTION OF EXPANSION BOLTS IN CONCRETE OR MASONRY	CONTINUOUS	YES
B. VISUAL INSPECTION OF INSTALLATION OF EPOXY ANCHORED BOLTS, RODS, OR REBAR	CONTINUOUS	YES
7. MASONRY: (LEVEL 1 SPECIAL INSPECTION IS REQUIRED)		
A. SITE-PREPARED MORTAR PROPORTIONS.	PERIODIC	YES
B. MORTAR JOINT CONSTRUCTION AT BEGINNING OF MASONRY CONSTRUCTION AND PRIOR TO GROUTING.	PERIODIC	YES
C. SITE PREPARED GROUT PROPORTIONS.	PERIODIC	YES
D. GROUT SPACES.	PERIODIC	YES
E. GROUT PLACEMENT.	CONTINUOUS	YES
F. SIZE & LOCATION OF STRUCTURAL ELEMENTS.	PERIODIC	YES
G. SAMPLING & TESTING OF GROUT.	PERIODIC	YES
I. PRISM TESTS PER ASTM C 1314.	CONTINUOUS	YES
J. SAMPLING & TESTING OF CONCRETE MASONRY UNITS PER ASTM C 140.	PERIODIC	YES
8. INSULATING CONCRETE FILL:		
A. VISUAL INSPECTION OF THICKNESS & COMPRESSIVE STRENGTH	PERIODIC	NO
9. STRUCTURAL STEEL		
A. MILL REPORTS & IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE).		YES
B. SAMPLING & TESTING.	PERIODIC	NO
C. STEEL FRAME JOINT DETAILS AND MEMBER LOCATIONS.	PERIODIC	NO
10. COLD -FORMED STEEL		
A. WELDING ELEMENTS OF SEISMIC-FORCE-RESISTING SYSTEM.	PERIODIC	NO
B. SCREWS, BOLTS, ANCHORS AND OTHER TYPES OF FASTENERS C. FOR COMPONENTS OF SEISMIC-FORCE-RESISTING SYSTEM.	PERIODIC	YES
11. WOOD		
A. FIELD GLUING OF SEISMIC-FORCE-RESISTING ELEMENTS	CONTINUOUS	YES
B. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF SEISMIC-FORCE-RESISTING ELEMENTS WHERE SHEATHING NAILING IS 4 INCHES ON CENTER ORLESS. (INCLUDES: ROOF, FLOOR, AND WALL SHEATHING, GRADES, THICKNESSES, AND NAILING. BOLTING/SCREWING TO HOLDOWNS, POSTS, MEMBERS, BRACES, AND "STRUCT".)	PERIODIC	YES
12. APPROVED FABRICATORS (MUST SUBMIT CERTIFICATION OF COMPLIANCE)		
A. FOR ALL OFFSITE FABRICATION SUCH AS STRUCTURAL STEEL, GLU-LAMS AND OTHER PREFABRICATED WOOD ELEMENTS, PRECAST CONCRETE, SHOP WELDING, ETC.		YES

13. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION. COPIES OF TEST RESULTS SHALL BE FURNISHED TO THE STRUCTURAL ENGINEER IN ADDITION TO OTHER NORMAL DISTRIBUTIONS.

NOTE: IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SEE THAT THESE TESTS AND INSPECTIONS ARE PERFORMED.

CONTRACTOR RESPONSIBILITIES:

1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
   A. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
   B. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING DEPARTMENT.
   C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
   D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

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LICENSED ARCHITECT
JAMES PATRICK FOGARTY
No. C 19670
REN 11-30-25
STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

REGISTERED STRUCTURAL ENGINEER
RAMON S. SANCHEZ
No. S 5407
Exp. 9-30-24
STATE OF CALIFORNIA
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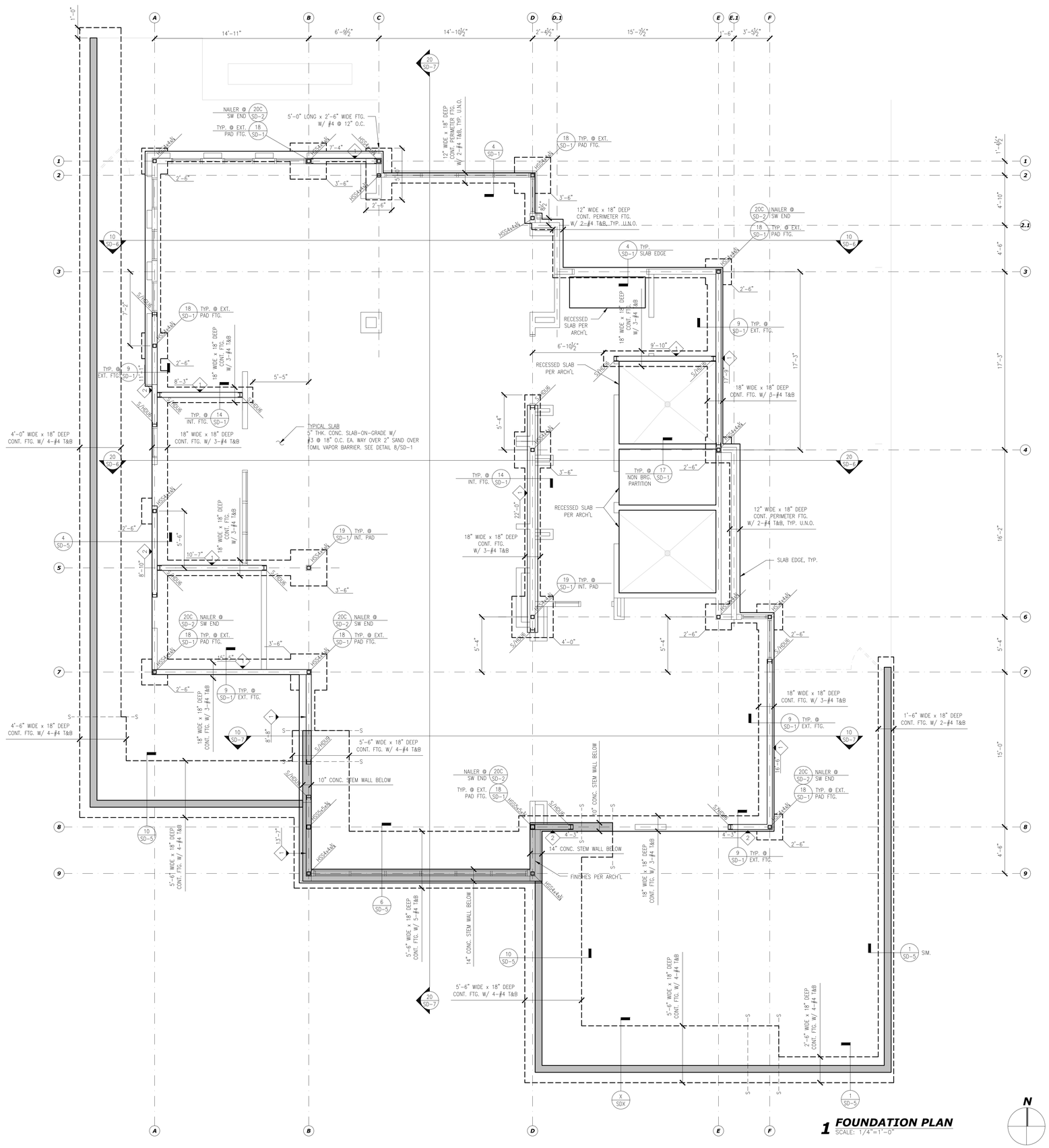
GENERAL NOTES

SN-1



1 FOUNDATION PLAN
SCALE: 1/4"=1'-0"

FOUNDATION NOTES

1. FOR GENERAL NOTES & TYPICAL DETAILS, SEE SHEET SN-1 & SD-1 THRU SD-8.
2. REFER TO ARCH'L AND CIVIL DRAWINGS FOR CURBS, EXTERIOR SLABS, DRAINS, SUMPS, SWALES, TRASH ENCLOSURES, WALKS, RAILINGS, GUARDPOST, ETC.
3. REFER TO ARCH'L DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
4. CENTER OF FOOTINGS SHALL BE LOCATED AT CENTER LINE OF COLUMNS AND WALLS UNLESS NOTED OTHERWISE.
5. REFER TO THE SOILS REPORT FOR ALL SITE AND SUBGRADE PREPARATION.
6. REFER TO ARCH'L DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
7. ALL STUD WALLS SHOWN ON STRUCTURAL DRAWINGS SHALL BE 600S162-43 @ 16" O.C. AT 6" WALL, 400S162-43 @ 16" O.C. AT 4" WALL. FOR TYPICAL STUD FRAMING SEE DETAIL 19/SD-3.
8. ALL HOLDOWN ANCHORS SHALL BE TIED IN PLACE PRIOR TO CALLING FOUNDATION INSPECTION.
9. REFER TO SPECIAL INSPECTION NOTES ON SN-1.
10. BACKFILLING OF RETAINING WALLS & DRAINAGE REQUIREMENTS REFER TO ARCH'L/SOILS REPORT.
11. PAD FOOTINGS MAY BE LOWERED TO PROVIDE CLEARANCE FOR UTILITIES AND ETC. REFER TO DETAIL 13/SD-1.
12. PROVIDE WALL SHEATHING AT ALL EXTERIOR WALLS OTHER THAN SHEAR WALLS AS FOLLOWS: WOOD STRUCTURAL PANEL, 15/32" CD APA RATED PLYWOOD OR OSB SHEATHING EXPOSURE 1, SPAN RATING 32/16, SCREWED WITH #8 SCREWS SPACED AT 6" O.C. ALONG ALL PANEL EDGES (E.N.) AND 12" O.C. ALONG INTERMEDIATE SUPPORTS (FIELD) (F.N.)

FOUNDATION - SYMBOLS

- DESIGNATES HSS COLUMN
- X'-Y" — DESIGNATES PLYWOOD SHEATHED WALL PER SCHEDULE ON 20/SD-2.
- X'-X" — DESIGNATES PAD FOOTING SIZE. SEE SCHEDULE FOR SIZE & REINFORCING.
- DESIGNATES CONC. RETAINING WALL / STEM WALL
- S- - - -S — DESIGNATES STEPPED FTG. PER DETAIL 7/SD-1 CONTRACTOR TO COORDINATE WITH CIVIL DWGS. FOR EXACT STEP LOCATIONS.
- S/HDUR — DESIGNATES HOLDOWN PER SCHEDULE ON 15/SD-2.

FOOTING SCHEDULE

SIZE (SQ.)	MIN. THK.	REBAR EA. WAY @ BOTTOM U.N.O.	REBAR EA. WAY @ TOP
2'-6"	18"	4-#5	–
3'-6"	18"	5-#5	–
4'-0"	18"	6-#5	–

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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

REGISTERED STRUCTURAL ENGINEER RAMON S. SANCHEZ No. S 5407 Exp. 9-30-24 STATE OF CALIFORNIA

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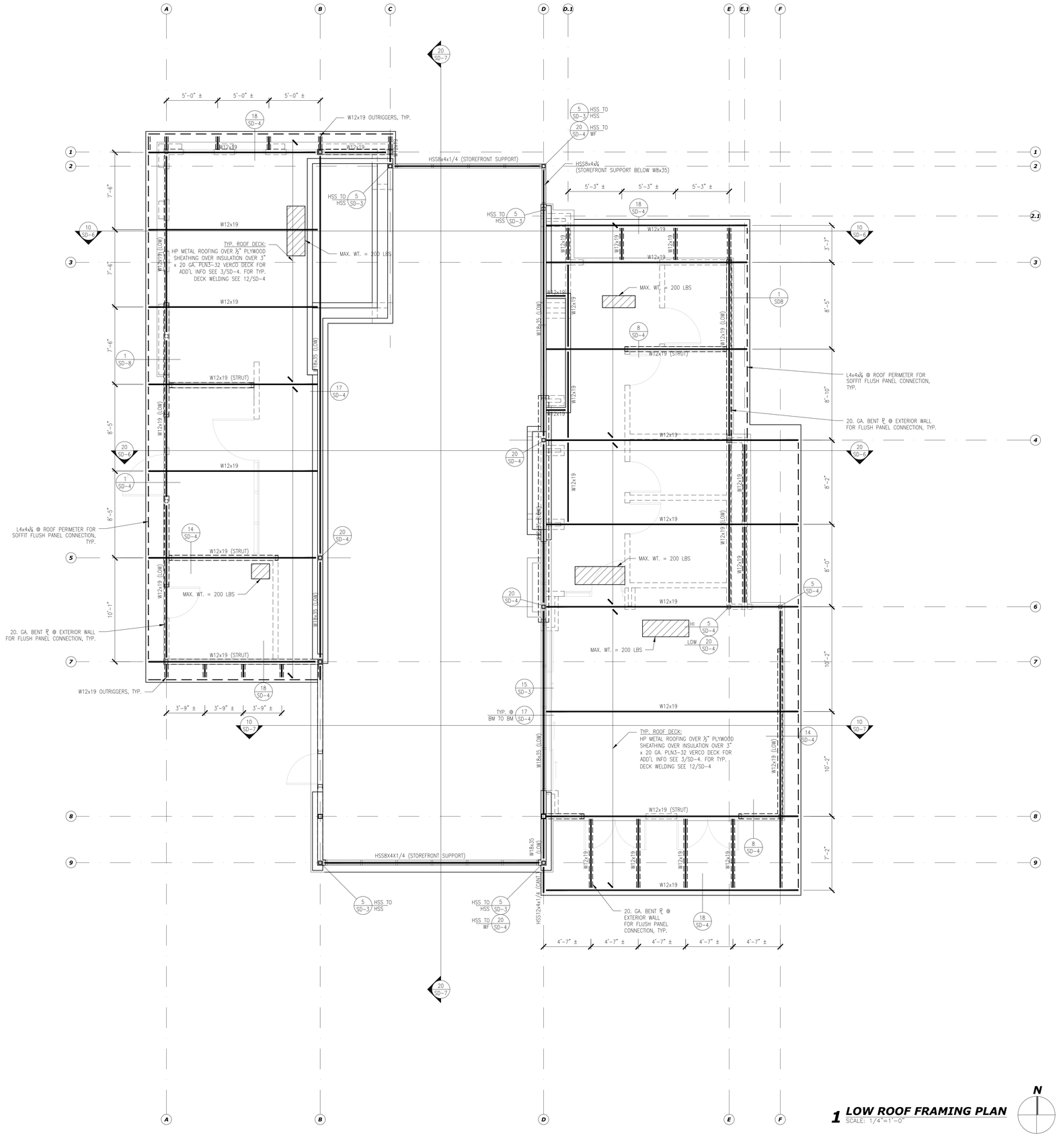
FOUNDATION PLAN

S2.01



1 **LOW ROOF FRAMING PLAN**
SCALE: 1/4"=1'-0"

N

ROOF FRAMING NOTES

1. FOR GENERAL NOTES & TYPICAL DETAILS, SEE SHEET SN-1 & SD-1 THRU SD-8.
2. SEE ARCH'L AND/OR MECH'L DWGS. FOR SIZE & LOCATION OF ROOF OPENINGS & SKYLIGHTS. FOR FRAMING AROUND OPENINGS SEE 6/SD4.
3. ROOF DESIGN LOADS
   D.L. = 20.0 P.S.F.
   L.L. = 20.0 P.S.F.
4. USE 2 ROWS OF BOUNDARY SCREWS AT ALL MEMBERS DESIGNATED AS "STRUTS" AND COLLECTORS" SEE ROOF PLAN.
5. REFER TO ARCH'L DRAWINGS FOR TOP OF SHT'G. ELEVATIONS SLOPES AND CRICKET LOCATIONS.
6. REFER TO DETAIL 19/SD3 FOR TYPICAL STUD WALL FRAMING & HEADER SIZES NOT SHOWN.
7. SPRINKLER DRAWINGS MUST BE REVIEWED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT PRIOR TO FRAMING THE ROOF. SIZE OF MEMBERS MAY CHANGE DUE TO PIPE LOCATIONS.
8. FOR NON LOAD BEARING PARTITIONS SEE DETAIL 3/SD-3 AND 4/SD-3.

FRAMING - SYMBOLS

- DESIGNATES SPAN DIRECTION OF ROOF JOIST SEE PLAN.
- INDICATES METAL STUD WALL BELOW. SEE PLANS FOR LOCATIONS.
- INDICATES L4x4x¾ AT ROOF PERIMETER FOR SOFFIT FLUSH PANEL CONNECTION.
- INDICATES 20. GA. BENT PLATE AT EXTERIOR WALL FOR FLUSH PANEL CONNECTION.
- INDICATES MECHANICAL UNIT. SEE DETAIL 3/SD-2 FOR CONNECTION TO ROOF.

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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

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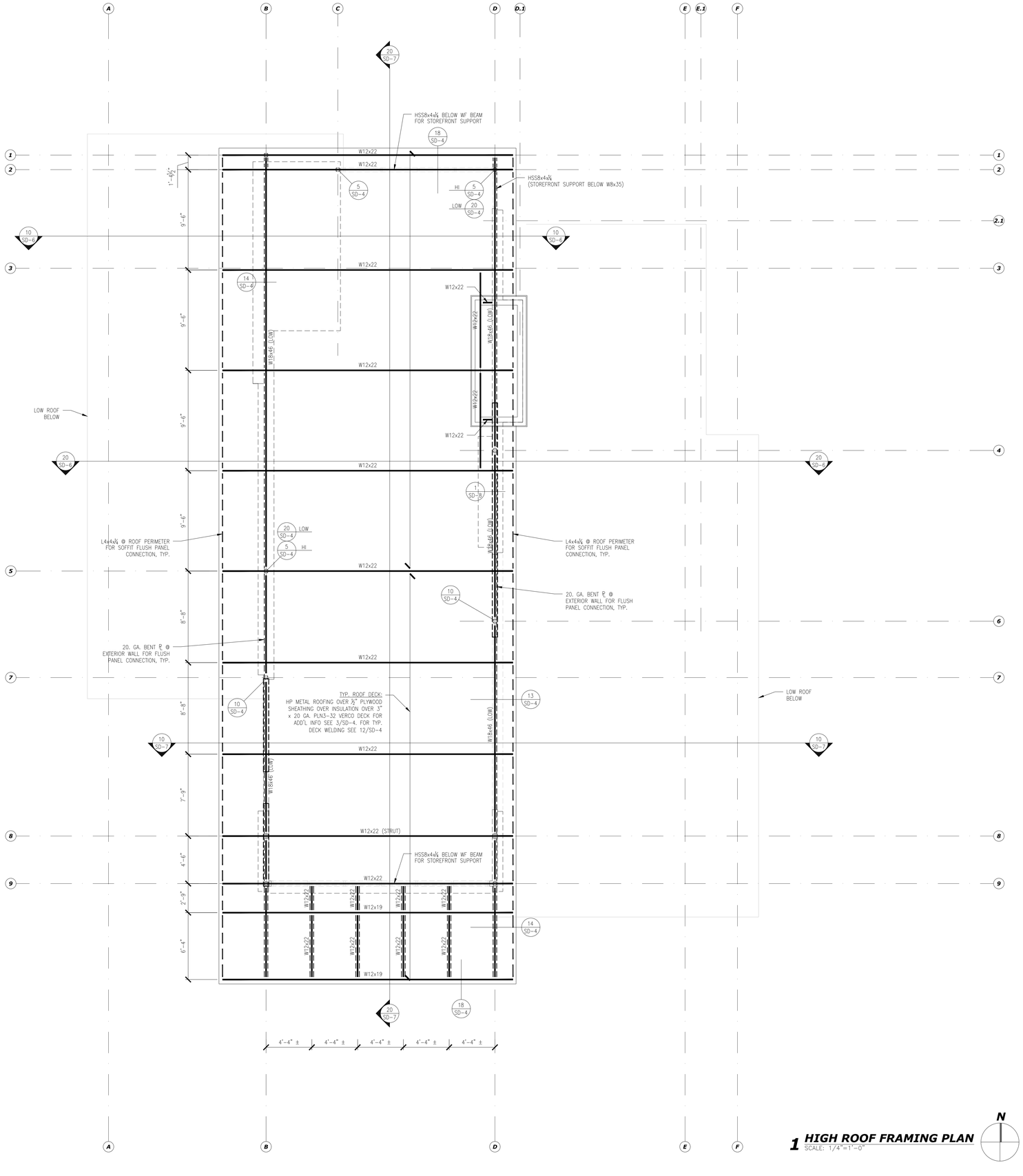
LOW ROOF FRAMING PLAN

S2.02



1 HIGH ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"

N

ROOF FRAMING NOTES

1. FOR GENERAL NOTES & TYPICAL DETAILS, SEE SHEET SN-1 & SD-1 THRU SD-8.
2. SEE ARCH'L AND/OR MECH'L DWGS. FOR SIZE & LOCATION OF ROOF OPENINGS & SKYLIGHTS. FOR FRAMING AROUND OPENINGS SEE 6/SD4.
3. ROOF DESIGN LOADS
   D.L. = 20.0 P.S.F.
   L.L. = 20.0 P.S.F.
4. USE 2 ROWS OF BOUNDARY SCREWS AT ALL MEMBERS DESIGNATED AS "STRUTS" AND COLLECTORS" SEE ROOF PLAN.
5. REFER TO ARCH'L DRAWINGS FOR TOP OF SHT'G. ELEVATIONS SLOPES AND CRICKET LOCATIONS.
6. REFER TO DETAIL 19/SD3 FOR TYPICAL STUD WALL FRAMING & HEADER SIZES NOT SHOWN.
7. SPRINKLER DRAWINGS MUST BE REVIEWED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT PRIOR TO FRAMING THE ROOF. SIZE OF MEMBERS MAY CHANGE DUE TO PIPE LOCATIONS.
8. FOR NON LOAD BEARING PARTITIONS SEE DETAIL 3/SD-3 AND 4/SD-3.

FRAMING - SYMBOLS

- DESIGNATES SPAN DIRECTION OF ROOF JOIST SEE PLAN.
- INDICATES METAL STUD WALL BELOW. SEE PLANS FOR LOCATIONS.
- INDICATES L4x4x¼ AT ROOF PERIMETER FOR SOFFIT FLUSH PANEL CONNECTION.
- INDICATES 20. GA. BENT PLATE AT EXTERIOR WALL FOR FLUSH PANEL CONNECTION.

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ARCHITECT C-19670

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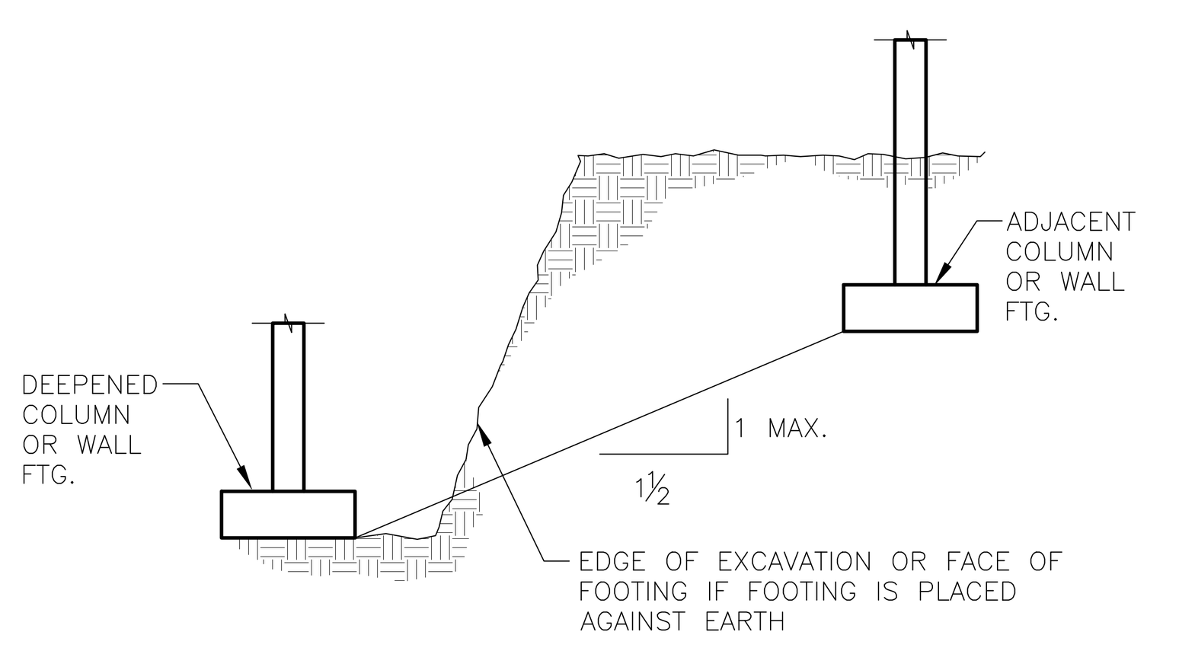
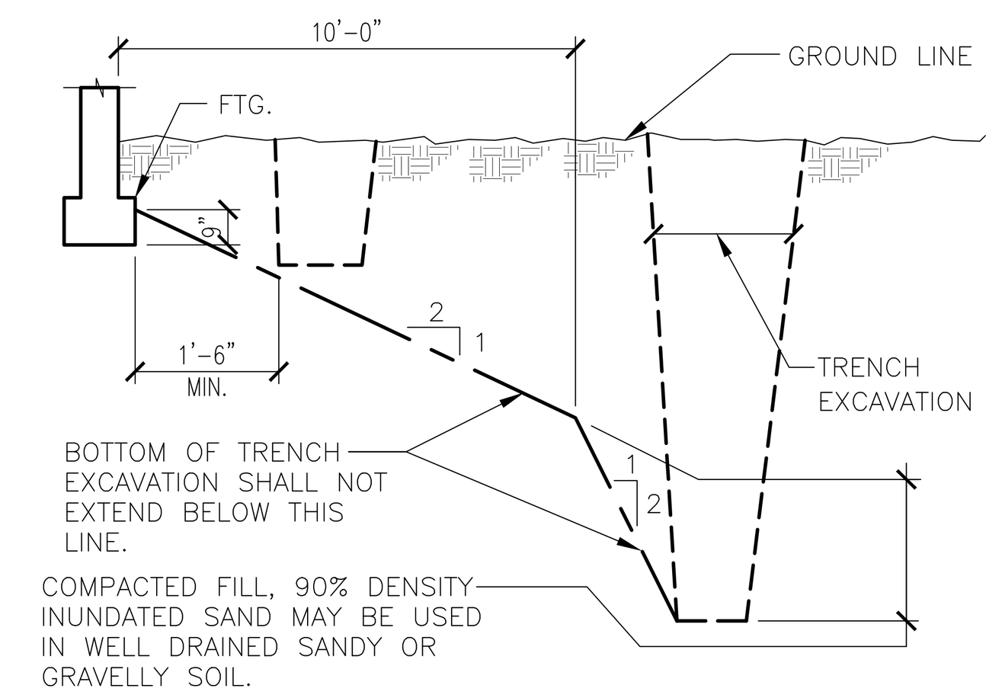
HIGH ROOF FRAMING PLAN

S2.03



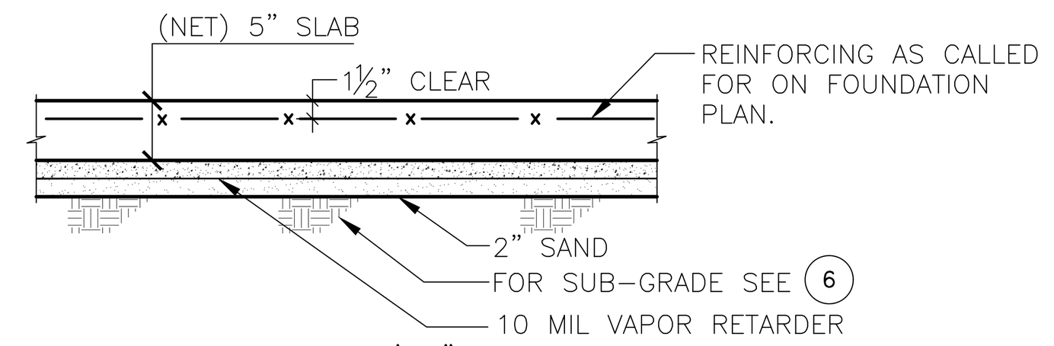
TYP. FOOTING SURCHARGE 1



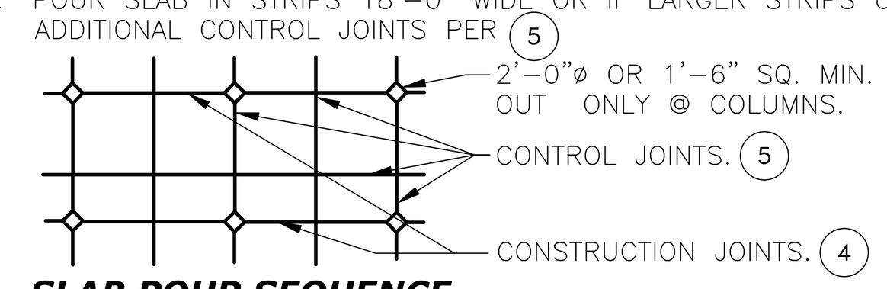
CONTRACTOR TO BE RESPONSIBLE FOR MAINTAINING THE SIDES OF THE TRENCH FROM CAVING IN UNTIL ALL BACKFILL IS COMPLETED. BACKFILL AS PER SPECIFICATIONS.

TYP. TRENCH EXCAVATION 2

1. CONCRETE STRENGTH @ 28 DAYS SHALL BE: 3000 PSI (NO SPECIAL INSPECTION)
2. MAXIMUM SLUMP OF CONCRETE SHALL BE 4". WAIT 7 DAYS BEFORE OPERATING VEHICLES AND EQUIPMENT ON SLABS. CRANE OUTRIGGER SHALL BE WELL PLANKED TO DISTRIBUTE THE LOAD.

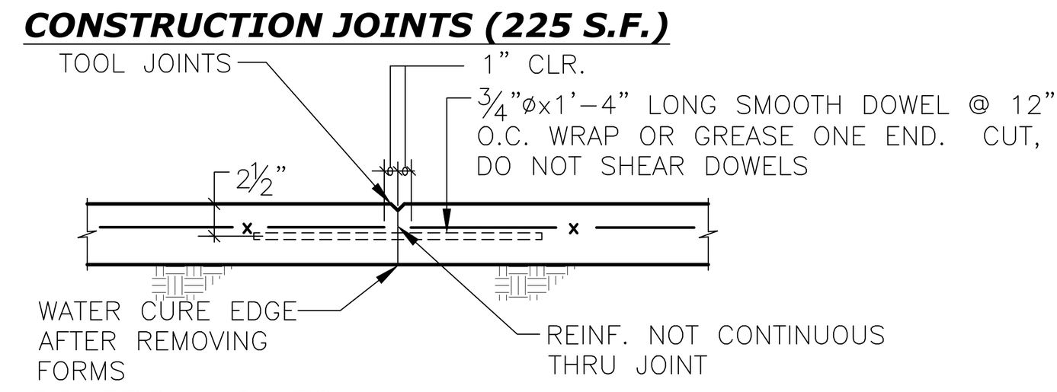


3. POUR SLAB IN STRIPS 18'-0" WIDE OR IF LARGER STRIPS USED THEN PROVIDE ADDITIONAL CONTROL JOINTS PER 5

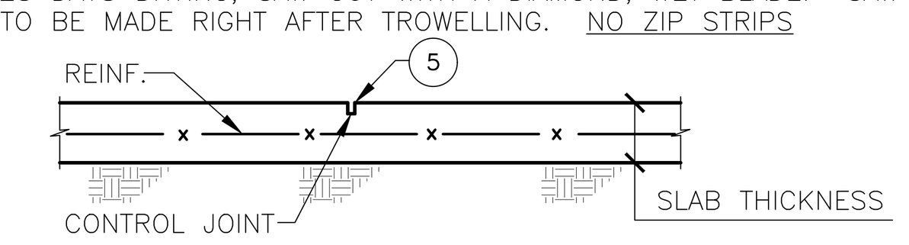


SLAB POUR SEQUENCE

4. ***CONSTRUCTION JOINTS (225 S.F.)***

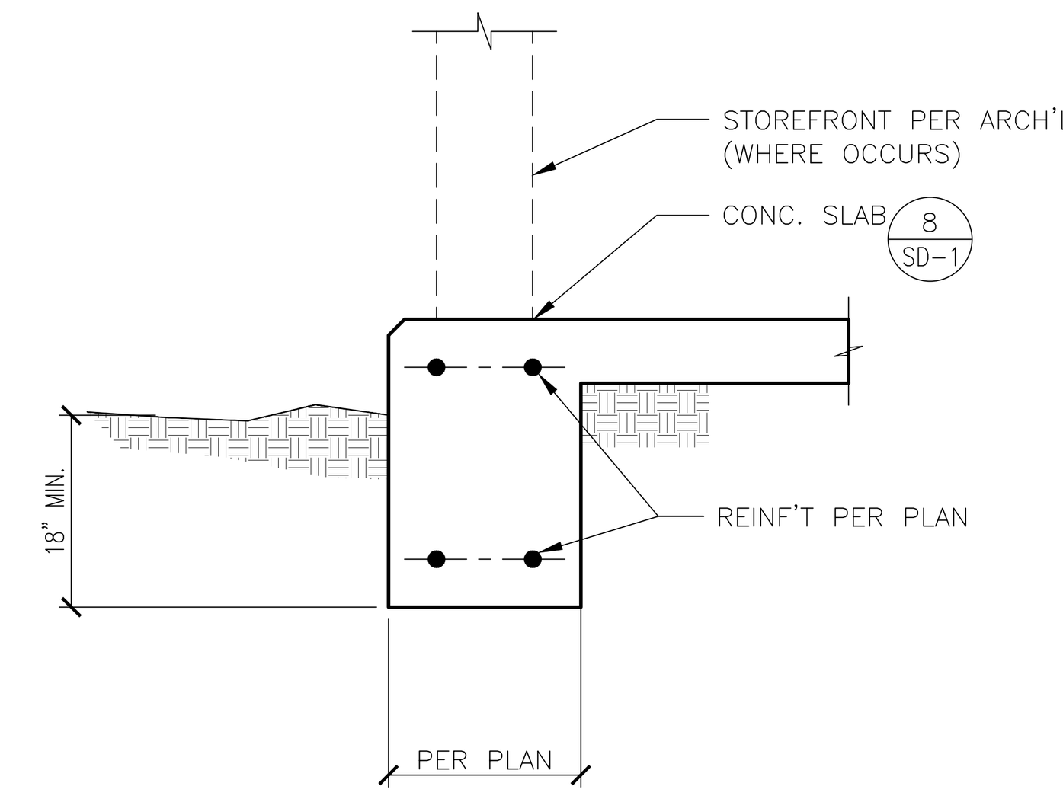


5. CONTROL JOINTS
PROVIDE CONTROL JOINTS AT A MAXIMUM OF 12 FT. CONTROL JOINTS SHALL BE PLACED PERPENDICULAR TO CONSTRUCTION JOINTS. ¾" TO 1" 'SOFT-CUT' SAW CUT FILLED WITH A CEMENT GROUT AFTER 28 DAYS DRYING, SAW CUT WITH A DIAMOND, WET BLADE. SAW CUTS TO BE MADE RIGHT AFTER TROWELLING. NO ZIP STRIPS

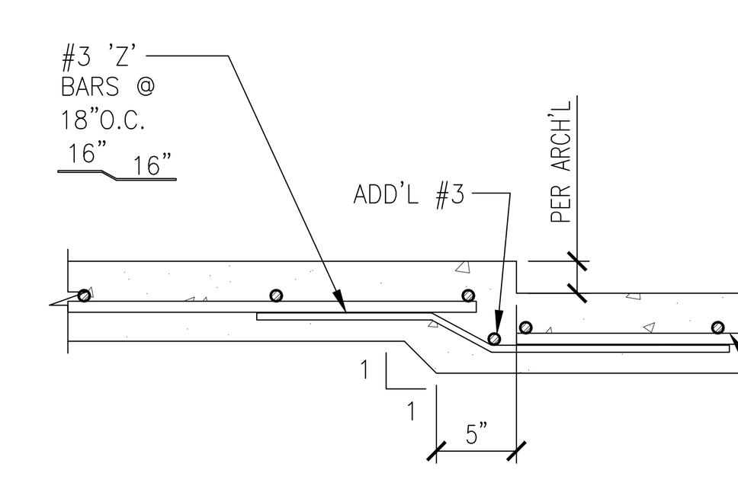


6. SLAB SUB GRADE SHALL BE COMPACTED TO A MINIMUM OF 90% WITH NO LOOSE SOIL ON TOP. NO HAND SHOVELED LEVELING. PAD SHALL BE MOISTENED PRIOR TO CONCRETE PLACEMENT. UNLESS NOTED OTHERWISE IN SOIL REPORT.
7. DO NOT PLACE CONCRETE WHEN THE TEMPERATURE EXCEEDS 90°F OR 80°F WHEN THE WIND EXCEEDS 12 MPH.
8. SLABS SHALL BE WET CURED WITH BURLENE FOR 7 DAYS MINIMUM
9. WHEN WIND, TEMPERATURE AND HUMIDITY CONDITIONS CAUSE EARLY DISAPPEARANCE OF BLEED WATER, STEPS SHALL BE TAKEN TO USE A FOG SPRAY. CURING SHALL COMMENCE IMMEDIATELY AFTER FINISHING.
10. THE VAPOR RETARDER SHALL BE PER ASTM E 1745 AND SHALL HAVE A PERMANENCE (WATER VAPOR TRANSMISSION RATE) OF LESS THAN 0.3 PERMS, AS DETERMINED BY ASTM E 96 ALL LAPS AND SEAMS SHALL BE OVERLAPPED 6" MIN. ALL JOINTS AND PENETRATION SHALL BE SEALED WITH THE MANUFACTURER'S RECOMMENDED ADHESIVE AND WITH PRESSURE SENSITIVE TAPE.

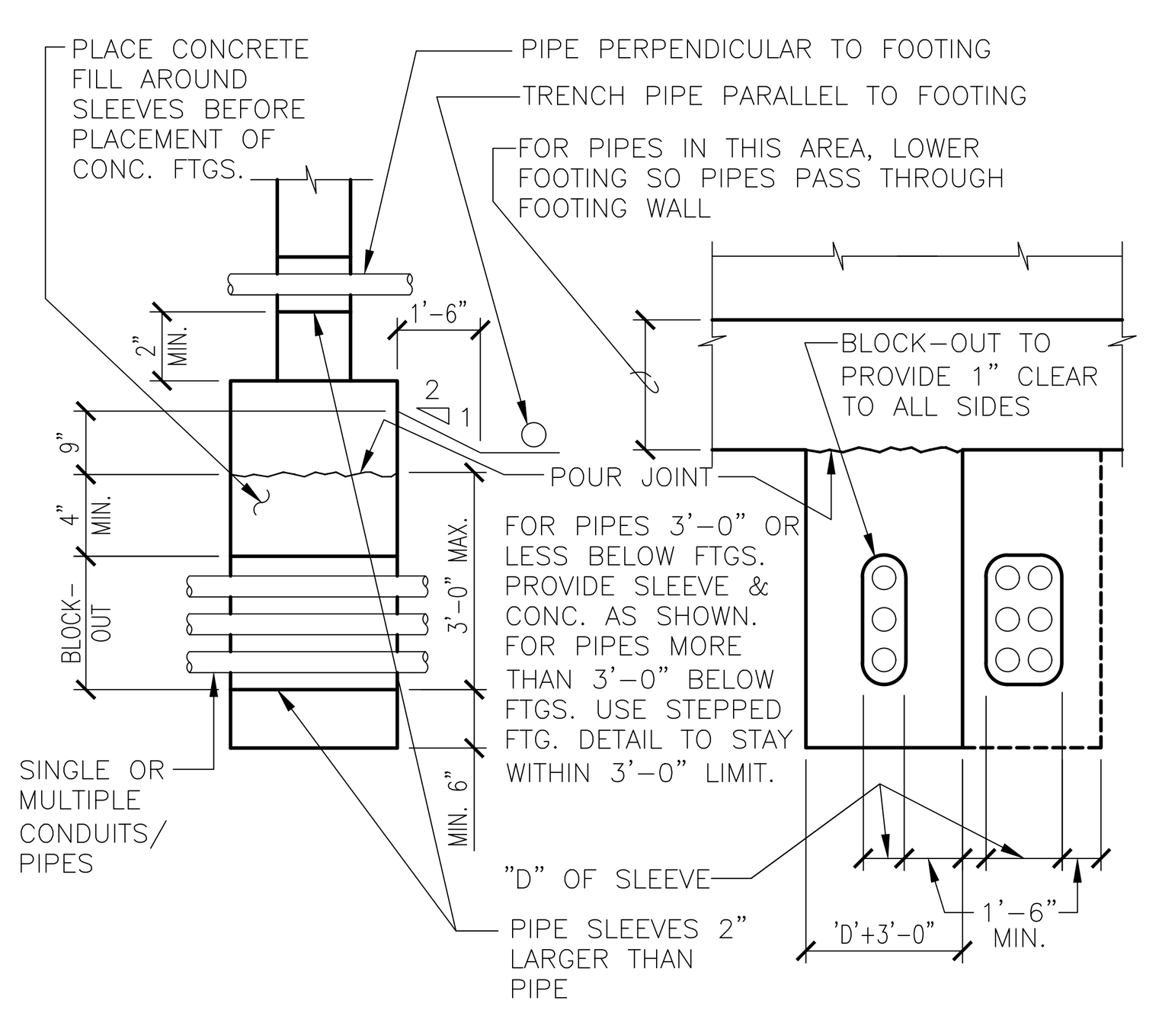
TYP. CONC. SLAB-ON-GRADE (5" THK.) 8



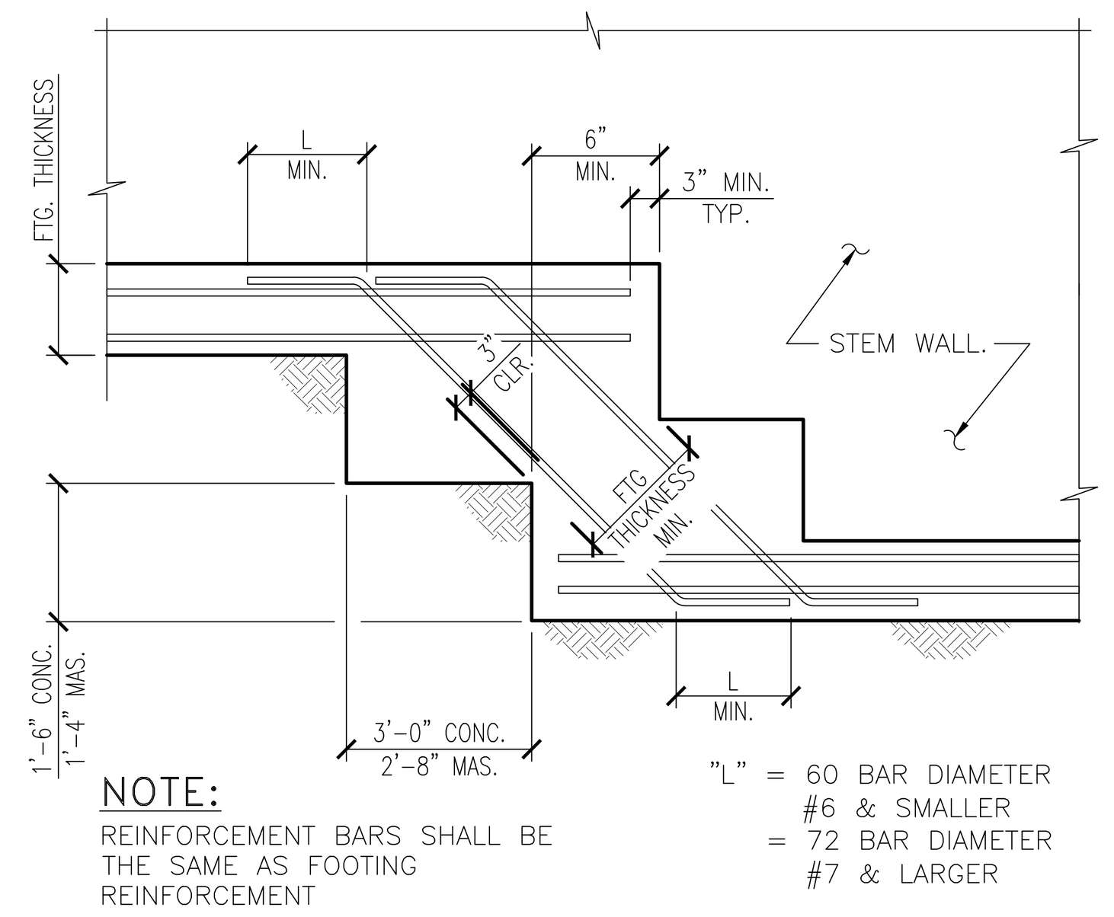
TYP. SLAB EDGE 4



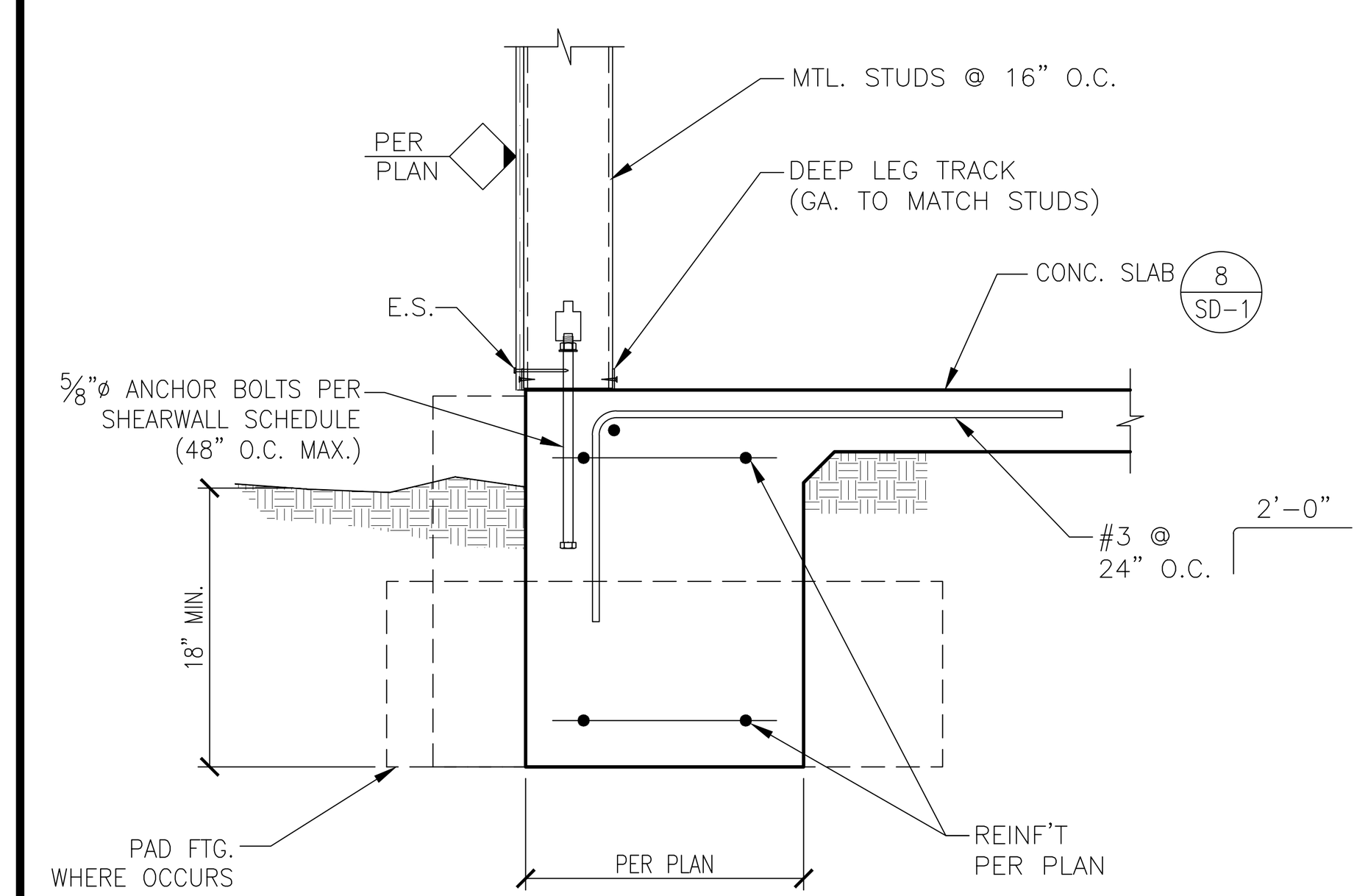
TYP. SLAB DEPRESSION 5



TYP. PIPES THRU/BELOW FOOTING 6



TYP. STEPPED FOOTING 7



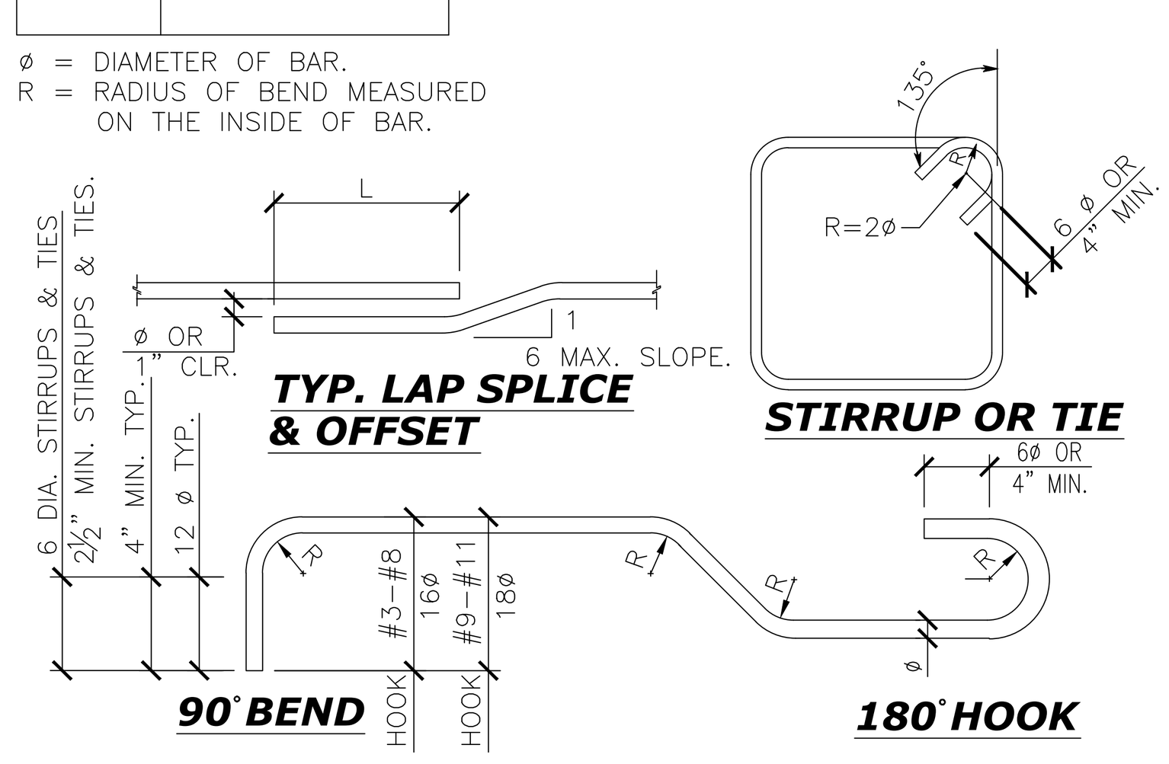
TYP. PERIMETER CONT. FOOTING 9

10

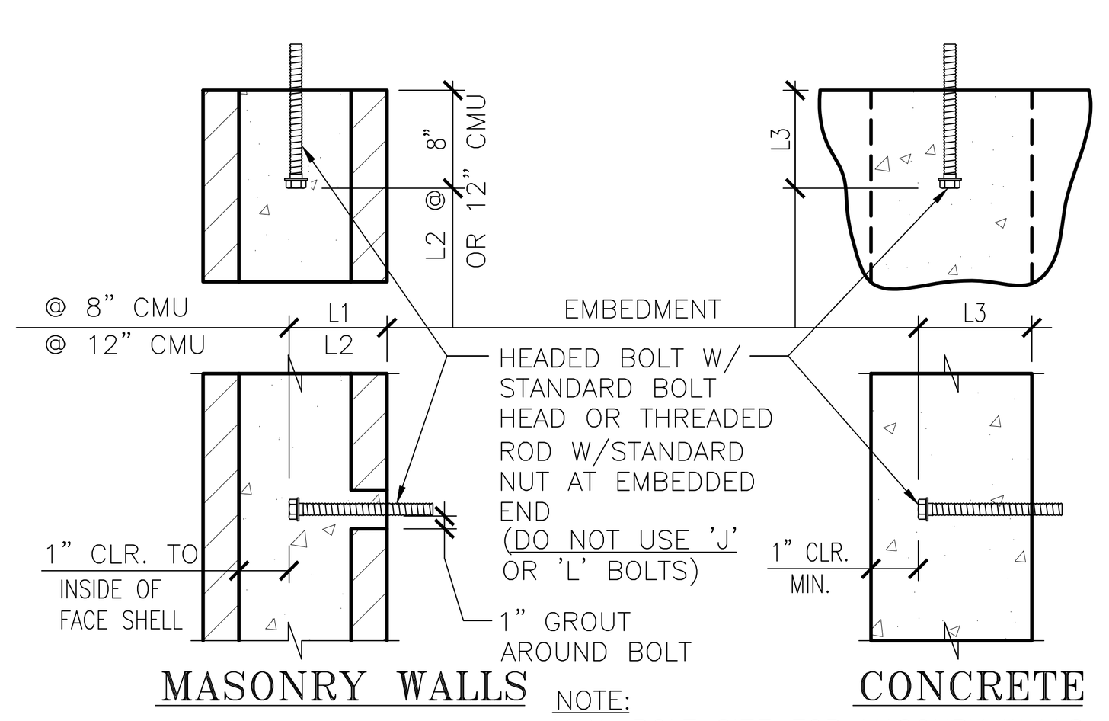
R	BAR SIZE
3 ø	#3 , #4 , #5
3 ø	#6 , #7 , #8
4 ø	#9 , #10 , #11

ø = DIAMETER OF BAR.
R = RADIUS OF BEND MEASURED ON THE INSIDE OF BAR.

"L" = 60 BAR ø FOR #6 & SMALLER IN CONC.
72 BAR ø FOR #7 & LARGER IN CONC.
48 BAR ø FOR MASONRY WHEN ADJACENT BARS ARE SPACED GREATER THAN 3 INCHES.
62 BAR ø FOR MASONRY WHEN ADJACENT BARS ARE SPACED 3" INCHES OR LESS



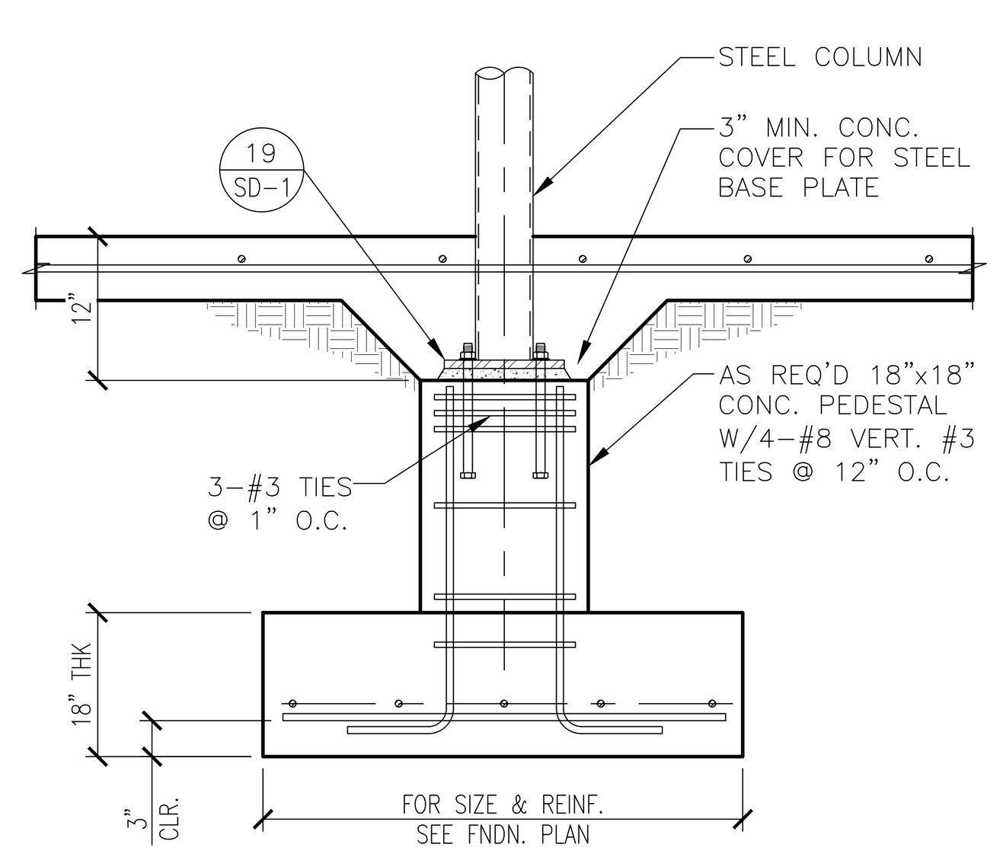
TYP. REBAR HOOKS, BENDS, SPLICES 11



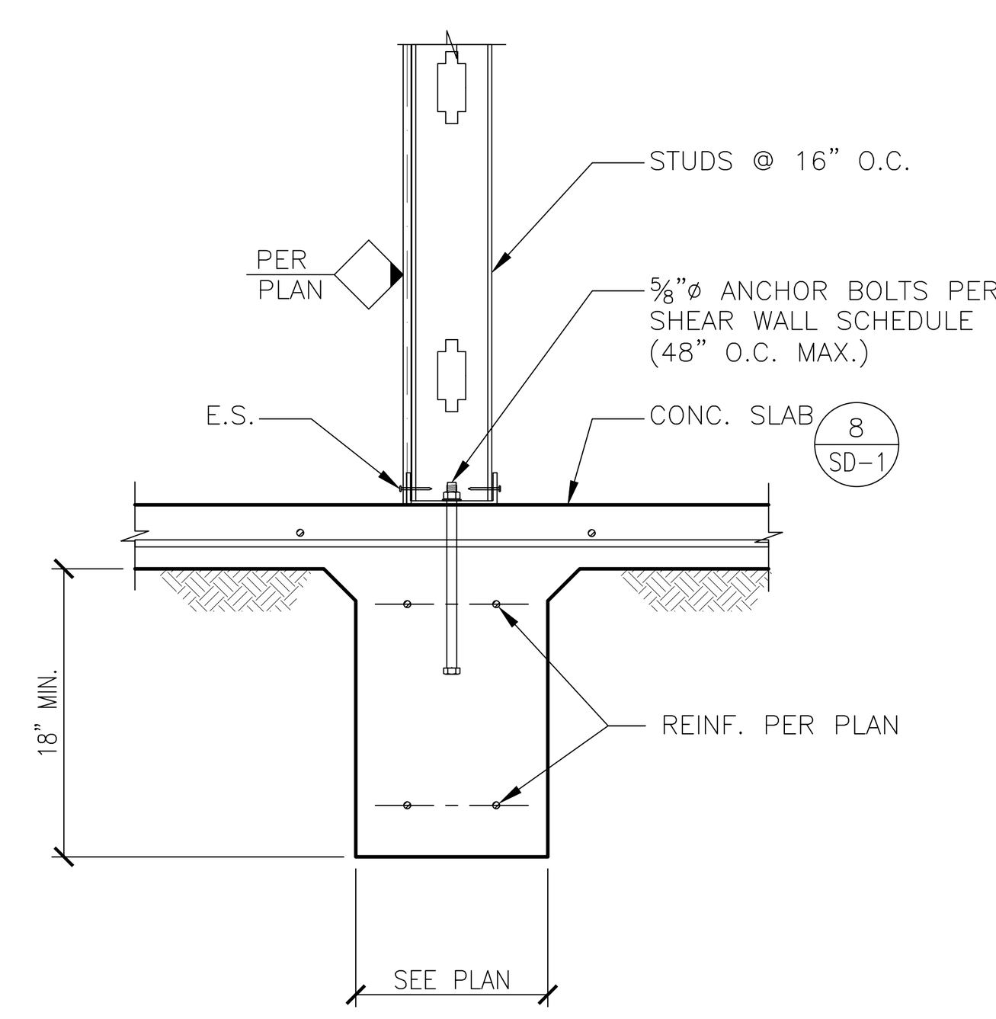
BOLT SIZE.	EMBEDMENT.		
	MASONRY		CONCRETE
	L1	L2	L3
½" ø	5"	5"	7"
⅝" ø	5"	6"	7"
¾" ø	5"	8"	7"
⅞" ø	5"	9"	7"
1" ø	5"	9"	8"

NOTE:
MAX. BOLT SIZE FOR MASONRY WALLS SHALL BE: ¾"ø FOR 8" CMU, 1"ø FOR 12" CMU. MINIMUM EDGE DISTANCE SHALL EQUAL EMBEDMENT UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE ACCURATELY SET WITH REMOVABLE TEMPLATES. TEMPLATES SHALL BE REMOVED TO VERIFY GROUT CONSO-LIDATION. ANY VOIDS SHALL BE FILLED WITH GROUT.

TYP. BOLT EMBEDMENT 12

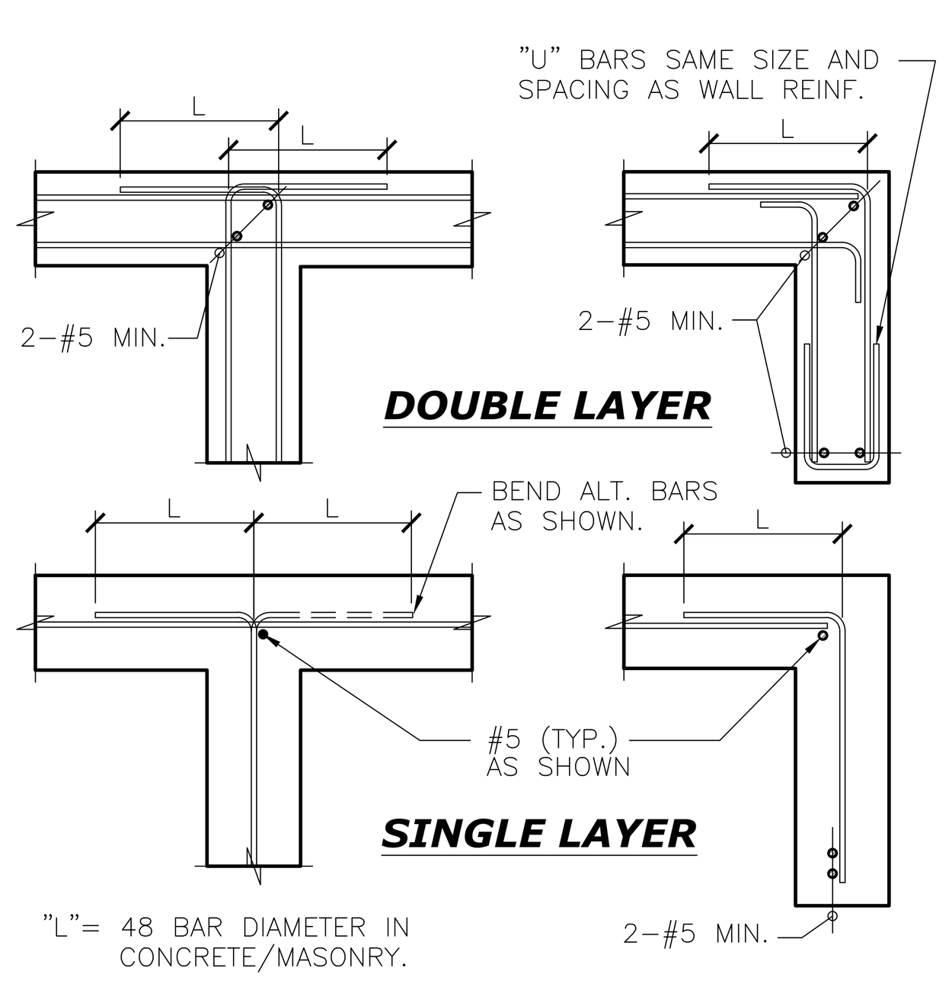


TYP. PEDESTAL FOOTING 13

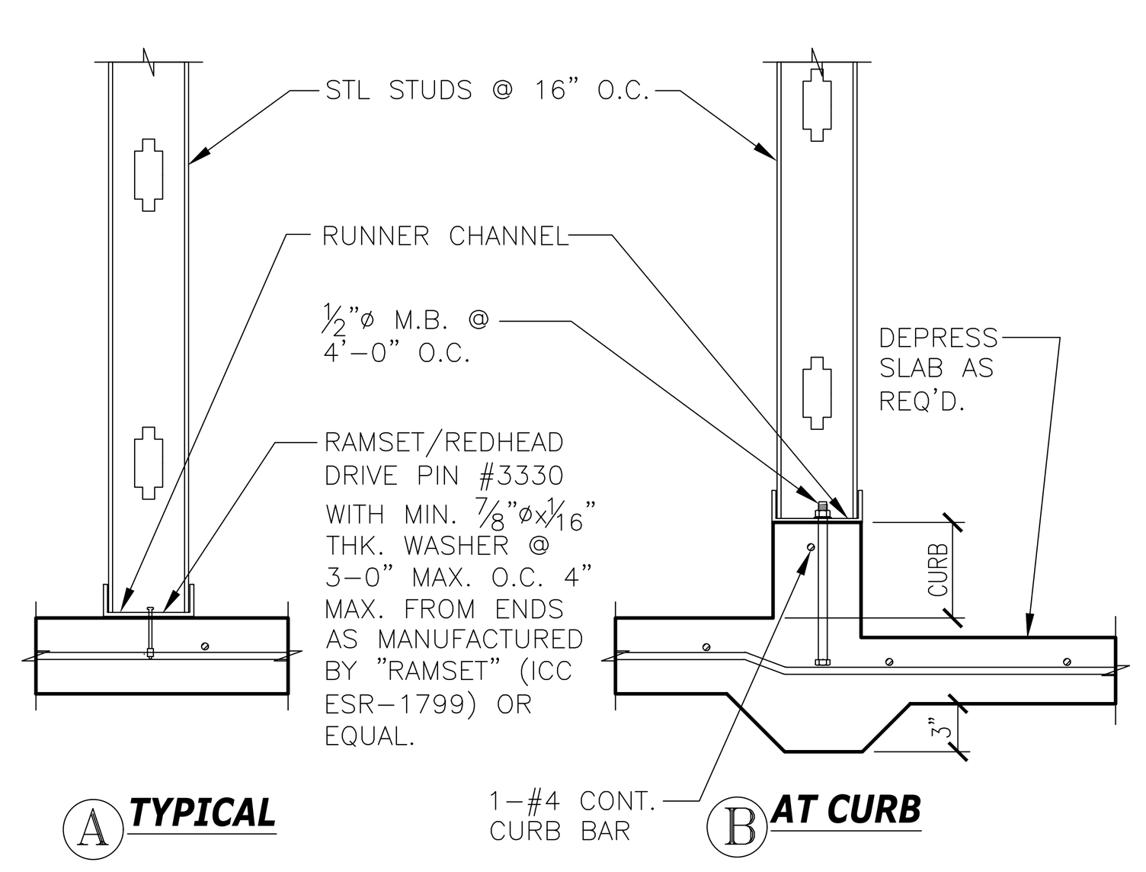


SECTION 14

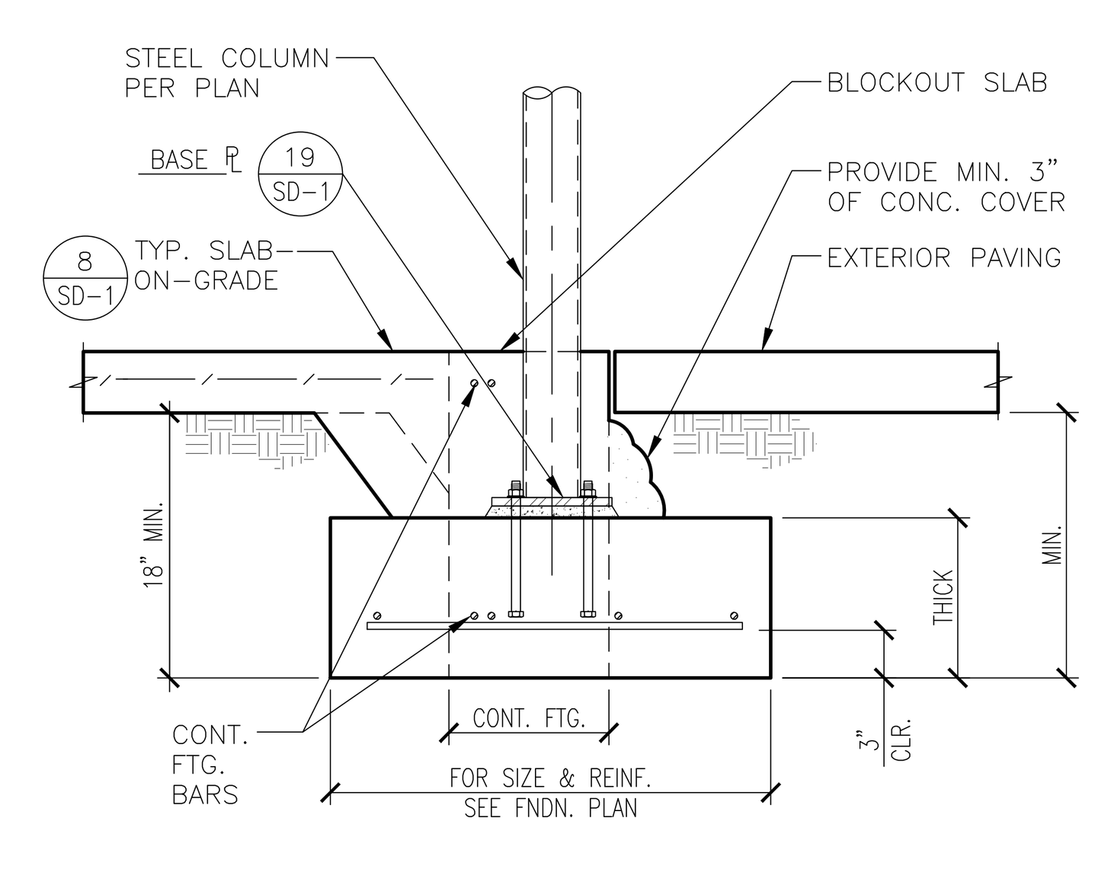
15



TYP. REINF. @ CORNERS - INTERSECTIONS 16

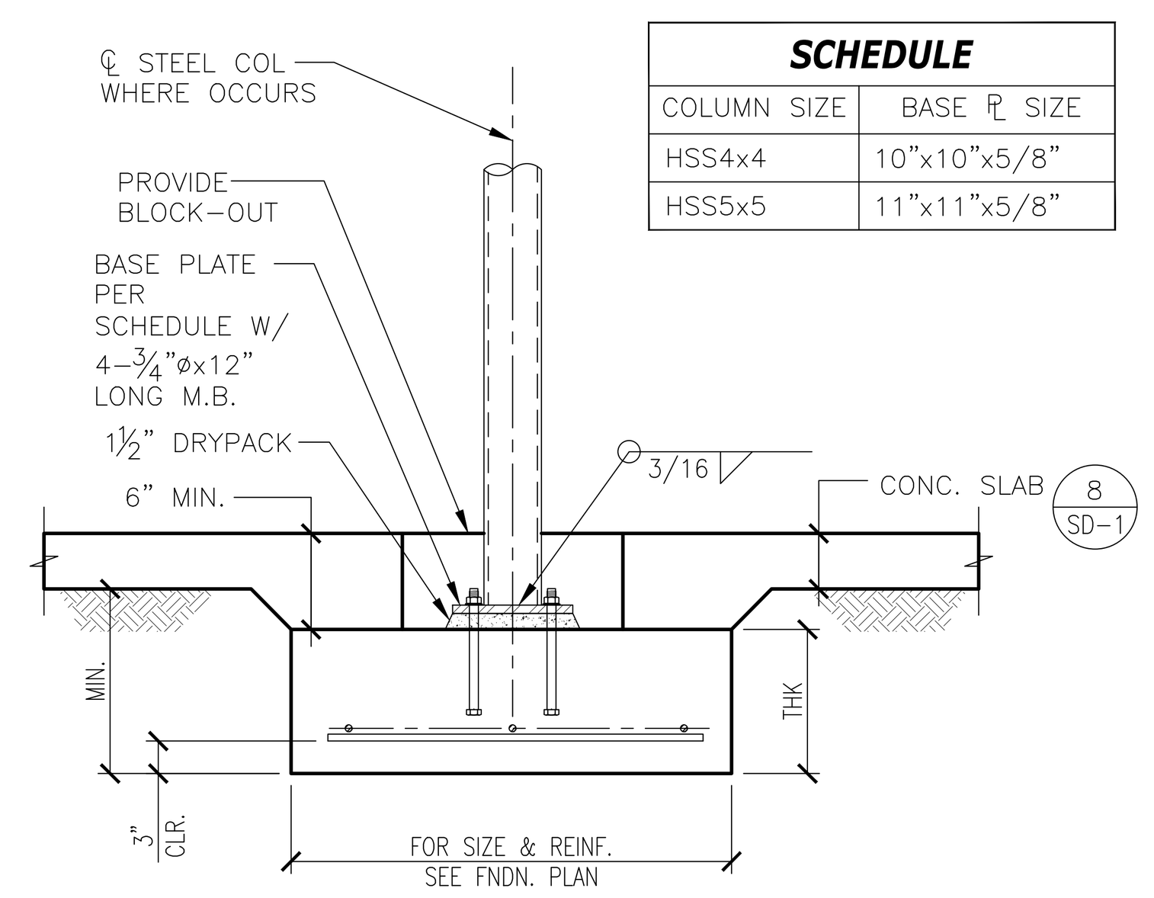


TYP. NON-BRG. PARTITIONS, STEEL 17



18

SCHEDULE	
COLUMN SIZE	BASE ℗ SIZE
HSS4x4	10"x10"x5/8"
HSS5x5	11"x11"x5/8"



TYP. ISOLATED PAD FOOTING 19

20

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LICENSED ARCHITECT
JAMES PATRICK FOGARTY
No. C 19670
REN. 11-30-25
STATE OF CALIFORNIA

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CONSULTANT

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9100 MING AVE. STE. 110
BAKERSFIELD, CA. 93311
PROJECT NO.: 22044

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

REVISIONS

No	Date	Item

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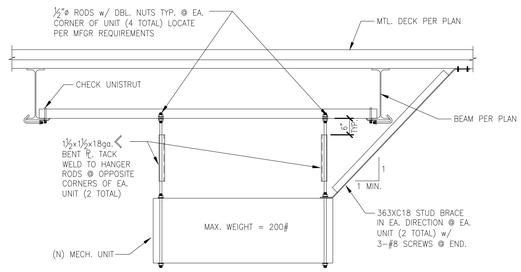
SECTION DETAILS

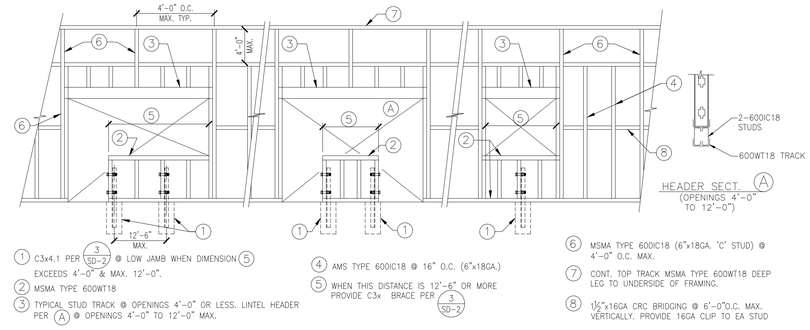
SD-1

1



TYP. SUSPENDED A/C UNIT SUPPORT

3



1. C3x4.1 PER 3/SD-2 @ LOW JAMB WHEN DIMENSION 5 EXCEEDS 4'-0" & MAX. 12'-0".
2. MSMA TYPE 600WT18
3. TYPICAL STUD TRACK @ OPENINGS 4'-0" OR LESS. LINTEL HEADER PER A @ OPENINGS 4'-0" TO 12'-0" MAX.
4. AMS TYPE 600IC18 @ 16" O.C. (6"x18GA.)
5. WHEN THIS DISTANCE IS 12'-6" OR MORE PROVIDE C3x BRACE PER 3/SD-2
6. MSMA TYPE 600IC18 (6"x18GA. 'C' STUD) @ 4'-0" O.C. MAX.
7. CONT. TOP TRACK MSMA TYPE 600WT18 DEEP LEG TO UNDERSIDE OF FRAMING.
8. 1½"x16GA CRC BRIDGING @ 6'-0"O.C. MAX. VERTICALLY. PROVIDE 16GA CLIP TO EA STUD

DSA1-004

TYP. WALL BRACING-METAL STUDS

5

TYP. FOOTING SURCHARGE

6

7

8

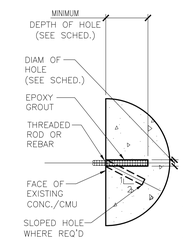
TYP. EPOXY ANCHOR DETAIL

PROCEDURE

1. EPOXY SHALL NOT BE USED UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS OR WITH PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
2. THREADED ROD OR DOWELS EMBEDDED IN EPOXY SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
3. CORRECT IMPLEMENTATION OF THE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION SHALL BE VERIFIED BY A SPECIAL INSPECTOR.
4. ONLY NON-REBAR-CUTTING DRILL BITS SHALL BE USED TO DRILL HOLES IN EXISTING CONCRETE AND/OR CMU.
5. THREADED ROD OR DOWEL EMBEDMENT SHALL BE VERIFIED AND DOCUMENTED BY A SPECIAL INSPECTOR
6. EPOXY SHALL BE:

EPOXY	BASE MATERIAL	ICC#
HILTI HIT-RE 500-SD	CONCRETE	ESR-2322
SIMPSON SET	MASONRY	ESR-1772
HILTI HY-150 MAX	MASONRY	ESR-1967
USP CIA-GEL 7000	MASONRY	ESR-1702
SIMPSON SET-XP	CONCRETE	ESR-2508
ITW EPCON G5	CONCRETE	ESR-1137

7. DRILL HOLES SHALL BE CLEAN OF CONCRETE DUST AND DEBRIS USING EITHER A NYLON BRUSH AND A VACUUM OR A NYLON BRUSH AND OIL-FREE COMPRESSED AIR. A BLOW-OUT BULB MAY BE USED IF A VACUUM OR COMPRESSED AIR IS NOT AVAILABLE. CLEANLINESS OF DRILL HOLES SHALL BE VERIFIED AND DOCUMENTED BY SPECIAL INSPECTOR.
8. PLACE EPOXY IN HOLE WITH CAULKING GUN OR SIMILAR EQUIPMENT, STARTING AT BOTTOM, FILL HOLE APPROXIMATELY 2/3 FULL
9. COAT ROD OR REBAR WITH THE SAME EPOXY AND INSERT INTO HOLE.
10. EPOXY FOR CMU SHALL ONLY BE USED IN SOLID GROUTED CMU WALLS.



ROD HOLE SIZE		
ROD SIZE	BIT DIA.	MIN. DEPTH
3/8"	7/16"	3 1/2"
1/2"	9/16"	4 1/4"
5/8"	11/16"	5"
3/4"	13/16"	6 3/4"
7/8"	15/16"	7 3/4"
1"	1 1/16"	9"

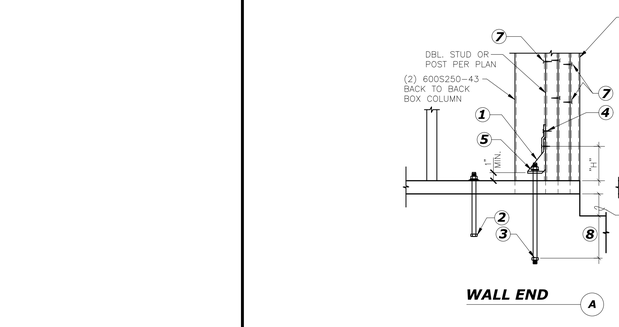
REBAR HOLE SIZE		
REBAR SIZE	BIT DIA.	MIN. DEPTH
#3	1/2"	3 1/2"
#4	5/8"	4 1/4"
#5	3/4"	5"
#6	7/8"	6 3/4"
#7	1"	7 3/4"
#8	1 1/8"	9"

10

11

12

15



WALL END A

WALL END B

DOOR/WINDOW OPENING C

DEEPEN FOOTING D

HOLDOWN SCHEDULE (SIMPSON MFGR)				
MODEL NO.	SIDE BOLTS	"H"	ANCHORAGE DIAMETER 'd'	EMBEDMENT 'L'
S/HDU4	(6) #14	7-7/8"	5/8"ø M.B.	12"
S/HDU6	(12) #14	10-3/8"	5/8"ø M.B.	12"
S/HDU9	(18) #14	12-7/8"	7/8"ø M.B.	12"

1. HOLDOWN PER PLAN.
2. TYPICAL HEX HEAD BOLT WITH HEAVY PLATE WASHER PER SHEARWALL SCHEDULE 20/SD-2
3. HEX HEAD BOLT
4. STUD FASTENERS
5. NUT ONLY, WASHER NOT REQUIRED. RE-TIGHTEN IMMEDIATELY PRIOR TO COVERING.
6. POST PER PLAN
7. #8 SCREWS @ 12" O.C. STAGGERED
8. EMBEDMENT 'L', MIN. EMBEDMENT 7".
9. DEEPEN FOOTING AS REQ'D FOR MIN 4" CONC. COVERAGE
10. EMBED M.B MAY BE EPOXY BOLTS PER 10/SD-2 MIN. EMBEDMENT 7".

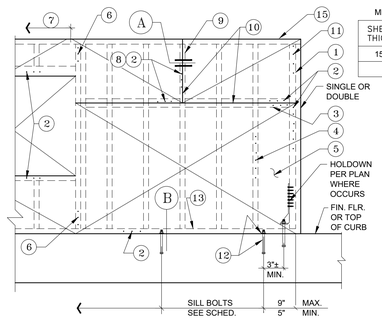
TYP. HOLDOWN SCHEDULE

16

TYP. SHEARWALL SCHEDULE

20

1. DBL STUD OR POST PER PLAN
2. EDGE SCREWS (E.S.) ALL EDGES, ALL SHEETS SEE SCHED. E.N.
3. METAL STUD BLOCKING (TYP.) SEE A FOR EDGE SPACINGS.
4. FIELD SCREWS (F.S.) @ 12" O.C. TYP.
5. PLYWOOD OR APA SHEATHING(OSB). SEE SCHEDULE.
6. EDGE SCREWS (E.S.) FULL HEIGHT OF KING STUDS OR POST ADJACENT OPENINGS
7. SHEATHING ABOVE & BELOW WINDOW OPENING MAY BE OMITTED WHEN ARCH'L FINISH PERMITS, UNO.
8. SHEATHING PANELS MAY BE LAYED VERTICALLY OR HORIZONTALLY. PANEL JOINTS SHALL BE EITHER STAGGERED VERTICALLY OR HORIZONTALLY WHEN MORE THAN ONE PANEL HIGH OR WIDE.
9. PROVIDE METAL STUD @ PANEL SPLICES. SEE DETAIL A FOR EDGE SPACINGS.
10. PROVIDE 1/8" GAP BETWEEN ENDS/ SIDES OF SHEATHING PANELS.
11. WHERE HOLDOWN STUDS OR POST IS INSET FROM END OF WALL, PROVIDE ADDITIONAL EDGE SCREWS (E.S.) TO THESE MEMBERS
12. HOLES IN METAL STUD TRACK SHALL BE 1/16" MAX. OVERSIZE OF MACHINE BOLT SIZE. PROVIDE STD CUT WASHER. SEE SCHEDULE FOR SILL BOLTS SIZE AND SPACING.
13. METAL STUD TRACK W/ 1 1/4" MIN FLANGES
14. FRAMING SCREWS SHALL HAVE A WAFER HEAD AND BE SELF-DRILLING. CARE SHALL BE TAKEN TO PREVENT "JACKING" (AIR GAP) BETWEEN STUD FLANGE AND SHEATHING. SHEATHING INSTALLED WITH AN AIR GAP WILL BE REJECTED
15. CONT. DEEP LEG 16 GA. TRACK OR STEEL BEAM AT SHEARWALL. SPLICE PER PLAN
16. REFER TO DETAIL 15/SD-2 FOR HOLDOWNS AND SILL BOLTS.

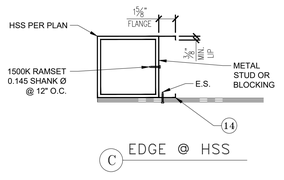


MINIMUM SCREW SIZES:

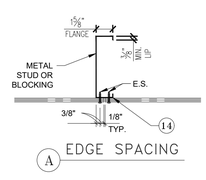
SHEATHING THICKNESS	MIN. LENGTH	MIN. HEAD DIAMETER	SCREW SIZE
15/32"	1"	0.292"	#8

NOTES:
1. MIN. SHEATHING SIZE
   = 1'-0" AT VERTICAL ORIENTATION
   = 2'-0" AT HORIZ ORIENTATION
2. MIN UNCOATED BASE METAL THICKNESS=0.033" MAX UNCOATED BASE METAL THICKNESS=0.043"
3. MIN STUD DEPTH = 3 1/2" BLOCKING DEPTH TO MATCH STUD DEPTH

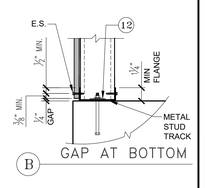
SCHEDULE				
DESIG	PLYWOOD/ APA SHEATHING	E.S.	SILL BOLTS	
1	15/32" STR. I	6"	5/8" DIA. A.B. @ 48" O.C.	
2	15/32" STR. I	4"	5/8" DIA. A.B. @ 32" O.C.	
3	15/32" STR. I	3"	5/8" DIA. A.B. @ 24" O.C.	
4	15/32" STR. I	2"	5/8" DIA. A.B. @ 16" O.C.	



C EDGE @ HSS



A EDGE SPACING



B GAP AT BOTTOM

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ARCHITECT C-19670

CONSULTANT

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AGENCY APPROVAL

PROJECT INFO

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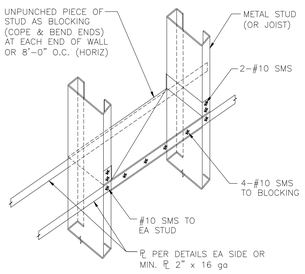
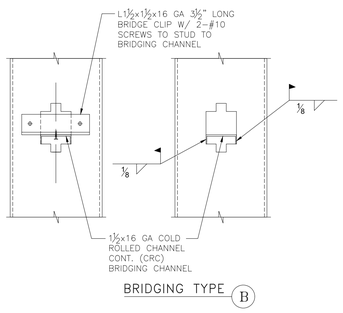
SECTION DETAILS

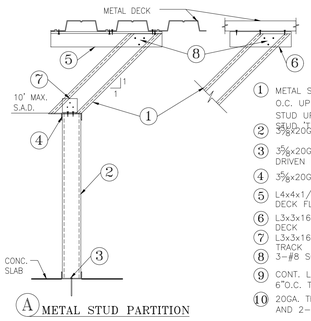
SD-2



STRAPPING TYPE (A)

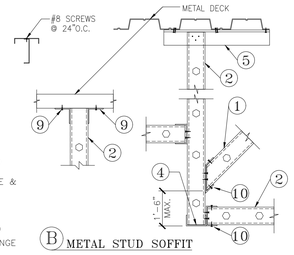


BRIDGING TYPE (B)



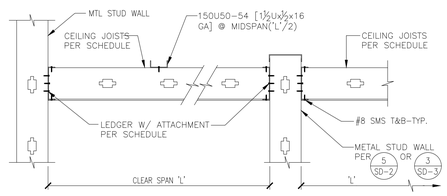
(A) METAL STUD PARTITION

1. METAL STUD DIAGONAL BRACE @ 4'-0" O.C. UP TO 7' LONG: (1)3⅝x20GA. STUD UP TO 20' LONG: (2)3⅝x20GA. SEUD. "I"
2. 3⅝x20GA. STUDS @ 16"O.C.
3. 3⅝x20GA. TRACK W/ 7/32"ø POWER DRIVEN PINS @ 32"O.C.
4. 3⅝x20GA. TRACK
5. L4x4x1/4 W/ #8 SCREWS TO EA. OF 3 DECK FLUTES
6. L3x3x16GA.x1'-2" W/ 3-#8 SCREWS TO DECK
7. L3x3x16GA. W/ 3-#8 SCREWS TO BRACE & TRACK
8. 3-#8 SCREWS
9. CONT. L3x3x16GA. W/ #8 SCREWS @ 6"O.C. TO DECK & 16"O.C. TO EA. STUD
10. 20GA. TRACK W/ #8 SCREW TO EA. FLANGE AND 2-#8 SCREWS TO EA. STUD

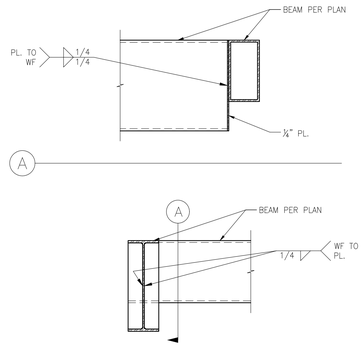


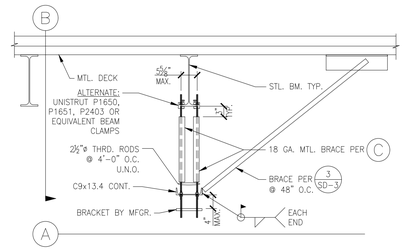
(B) METAL STUD SOFFIT

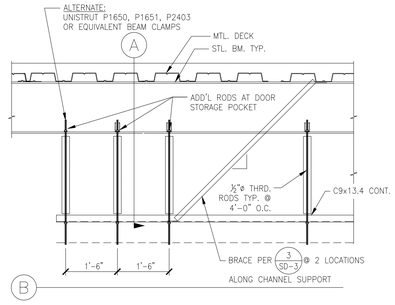
METAL STUD PARTITIONS & SOFFITS 3



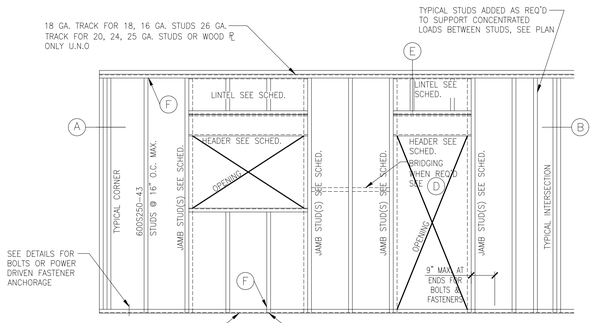
CLEAR SPAN 'L'	SSMA CEILING JOISTS PER ICBO ER-4943P	C/J SPACING	LEDGER TO CMU OR STUD WALL	LEDGER ATTACHMENT #8 SHEET METAL SCREW
UP TO 10'-0"	400S125-30 4"x1¼"x20 GA	16"O.C.	400T125-54 4"x1¼"x16 GA TRACK	2-#8 @ 16" O.C.
UP TO 15'-0"	600S162-33 6"x1⅝"x20 GA	16"O.C.	600T125-54 6"x1¼"x16 GA TRACK	3-#8 @ 16" O.C.







FOLDING PARTITION SUPPORT 15



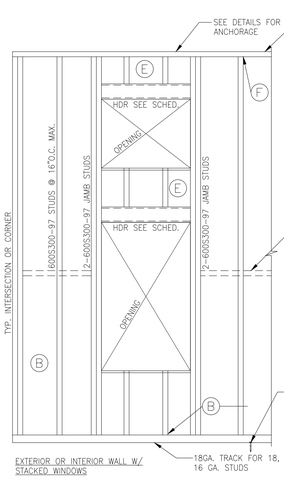
EXTERIOR OR INTERIOR LOAD-BEARING WALL ELEVATION

HEADER SCHEDULE*	
HEADER (BOXED)	SPAN
2-400S162-54	UP TO 4'-0"
2-600S200-54	4'-1" TO 6'-0"
2-800S200-54	6'-1" TO 8'-0"

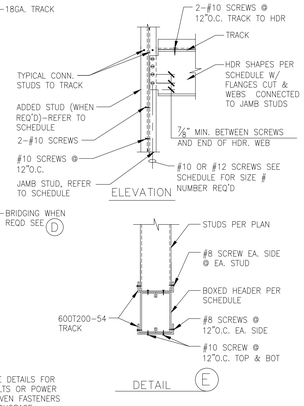
* UNLESS NOTED OTHERWISE ON FRAMING PLAN

JAMB STUD SCHEDULE*	
OPENING SIZE	NUMBER OF JAMB STUDS (BACK TO BACK)
UP TO 4'-0"	2-600S250-43
4'-1" TO 6'-0"	2-600S250-54
6'-1" TO 8'-0"	2-600S250-54

LINTEL SCHEDULE	
OPENING SIZE	# OF SCREWS @ ENDS (TOTAL EA. END)
UP TO 4'-0"	4-#10
4'-1" TO 6'-0"	6-#12
6'-1" TO 8'-0"	10-#12

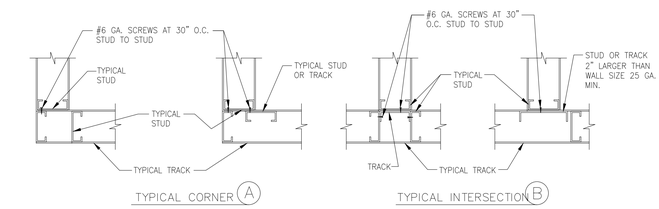


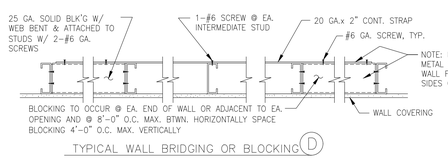
EXTERIOR W/ INTERIOR WALL W/ STACKED WINDOWS



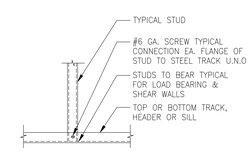
ELEVATION

DETAIL E

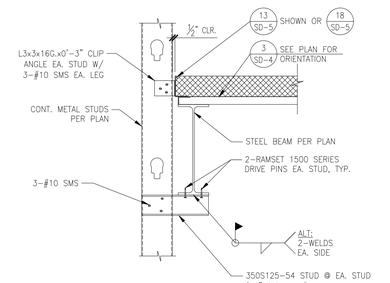




TYPICAL WALL BRIDGING OR BLOCKING D



TYPICAL STUD CONNECTION F



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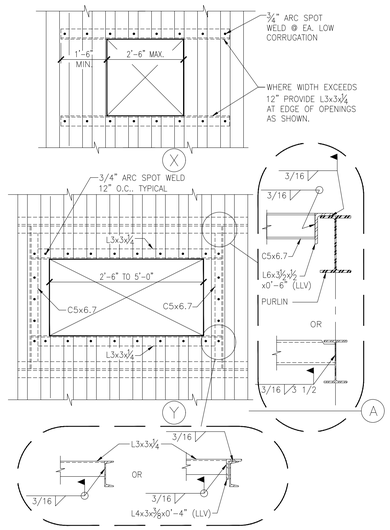
SECTION DETAILS

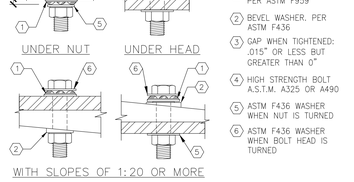
SD-3

NOTE:

1. FOR HOLES LESS THAN 6" IN MAXIMUM DIMENSION, NO REINF. IS REQUIRED.
2. FOR HOLES WITH A MAXIMUM DIMENSION OF 6" TO 12" REINF. DECK OPENING WITH A 20 GA. GALV. FLAT PLATE 12" LARGER IN SIZE THAN THE OPENING AND ATTACH WITH 1/16" FILLET WELDS 1" LONG AT EACH RIB ALL AROUND.
3. FOR HOLES WITH A MAXIMUM DIMENSION OF 12" TO 2'-6", SEE DETAIL 'X'.
4. FOR HOLES WITH A MAXIMUM DIMENSION OF 2'-6" TO 5'-0", SEE DETAIL 'Y'.



TYP. FRAMING AROUND DECK OPENINGS 6



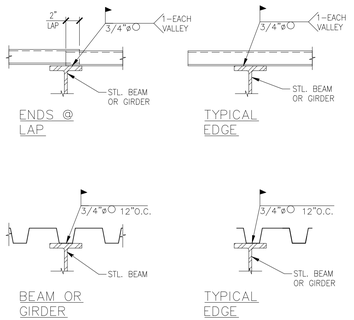
1. LOAD INDICATOR WASHER. PER ASTM F959
2. BEVEL WASHER. PER ASTM F436
3. GAP WHEN TIGHTENED: .015" OR LESS BUT GREATER THAN 0"
4. HIGH STRENGTH BOLT A.S.T.M. A325 OR A490
5. ASTM F436 WASHER WHEN NUT IS TURNED
6. ASTM F436 WASHER WHEN BOLT HEAD IS TURNED

TYPICAL DIRECT TENSION LOAD INDICATOR WASHER INSTALLATION WITH HIGH STRENGTH BOLTS.

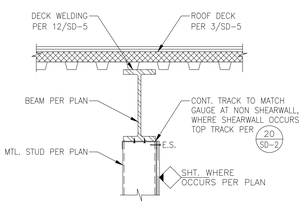
TYP. LOAD INDICATOR WASHERS 11

NOTE:
SLOTTED HOLES MAY BE USED FROM STRUCTURAL STEEL TO CONCRETE & MASONRY PROVIDED 3/8" THICK PLATE WASHERS ARE WELDED TO BEAM FOR EACH BOLT AFTER ERECTION.

TYP. WASHER PLATE 16



TYP. ROOF DECKING 12



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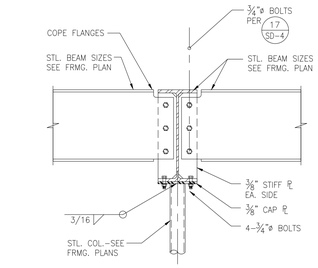

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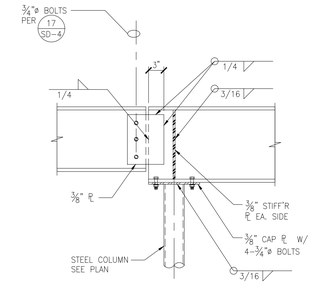

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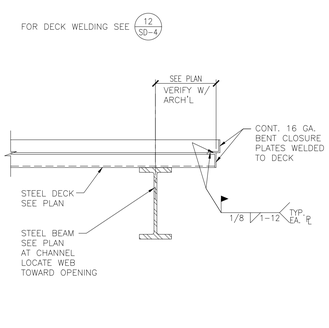

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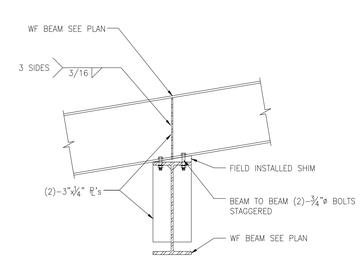

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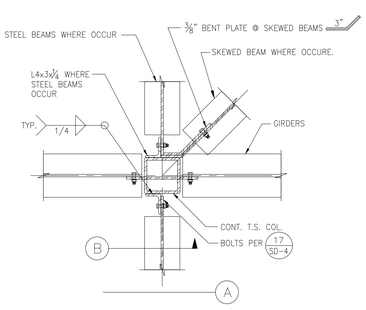

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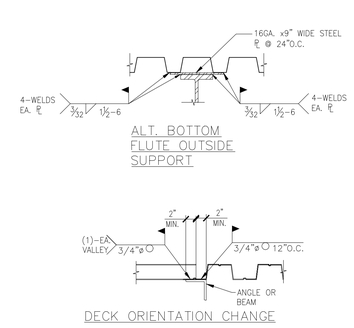

BEAM SIZE	"R"
W8x, W10x, C10x	2
W12x, W14x	3
W16x	4
W18x	5
W21x	6
W24x	7
W27x	7

TYP. BEAM TO BEAM CONNECTION 17

18

19

20

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ARCHITECT C-19670

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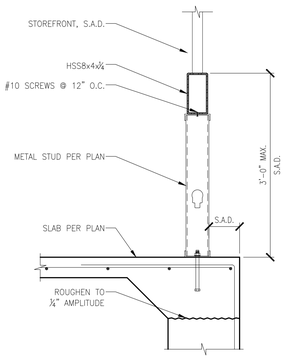
SD-4

17

13



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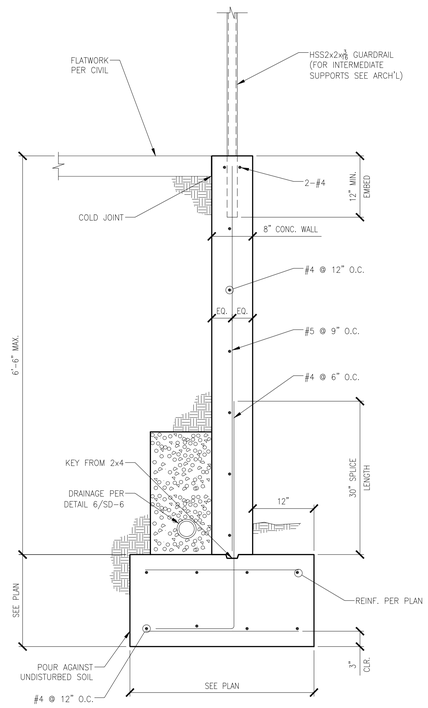
SECTION 10



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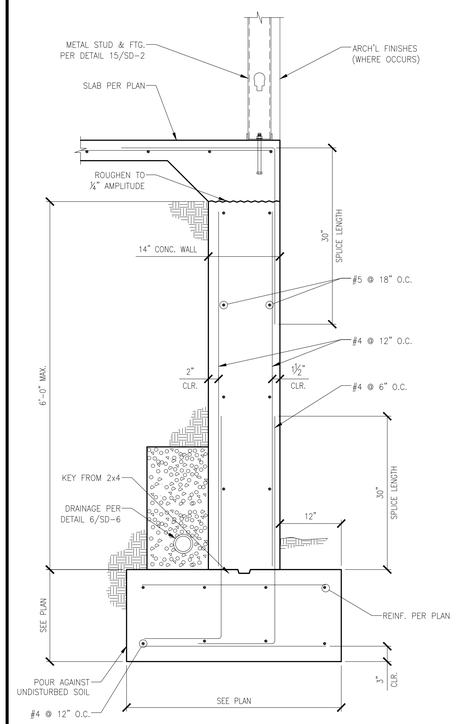

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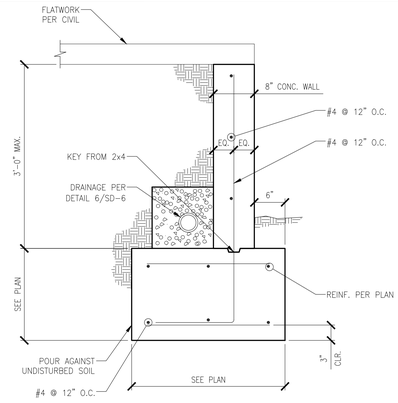
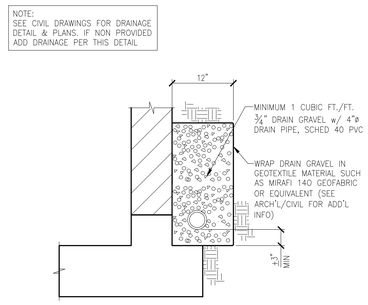


SECTION 1

19

15

TYP. RETAINING WALL DRAINAGE 11



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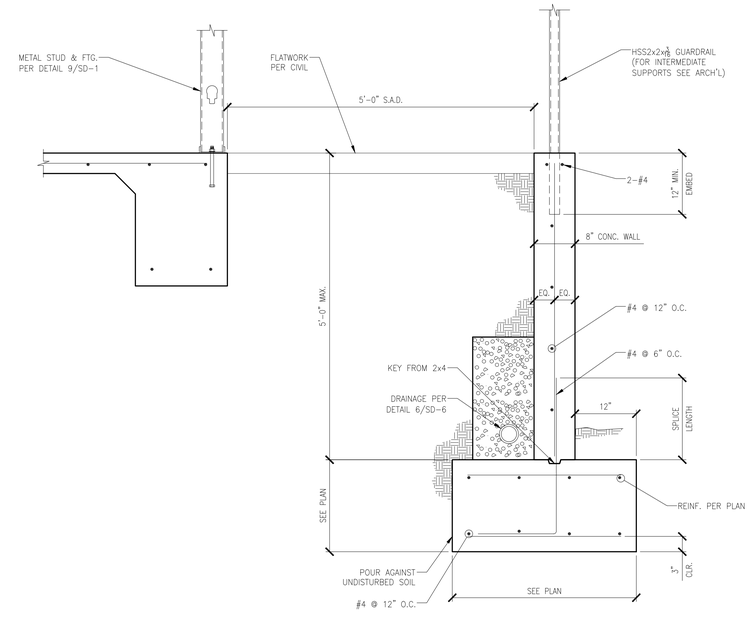
SECTION 4



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JAMES PATRICK
NO. C-19670
RENEWAL 08-30-25
STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

REGISTERED STRUCTURAL ENGINEER
RAMON S. SANCHEZ
No. S 5407
Ex. 9-30-24
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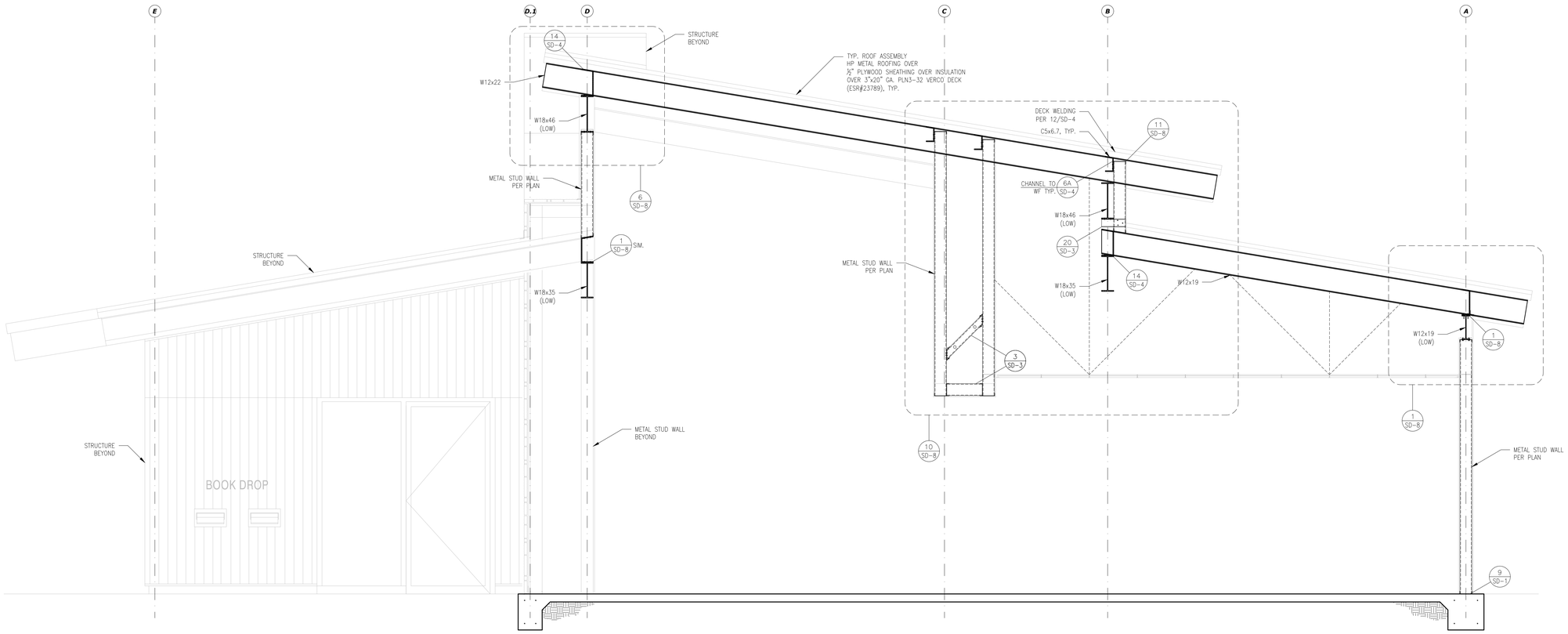
SD-5



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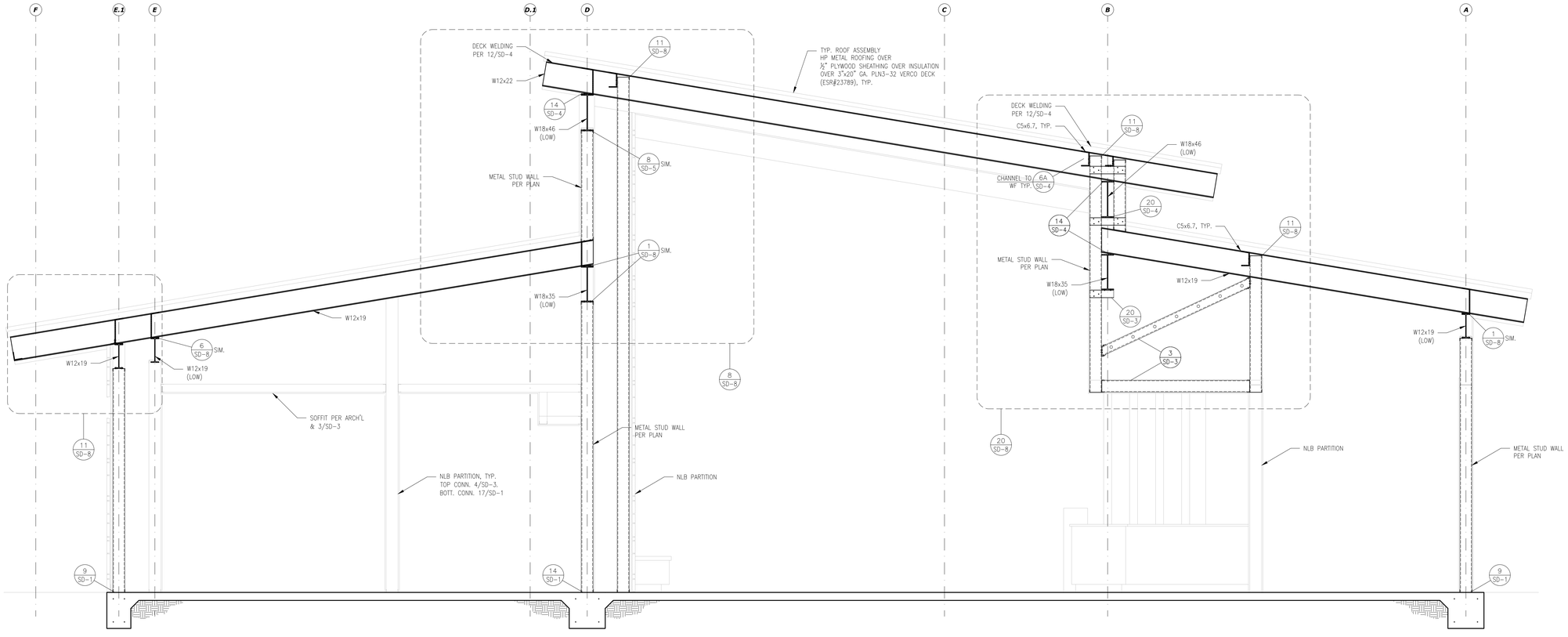

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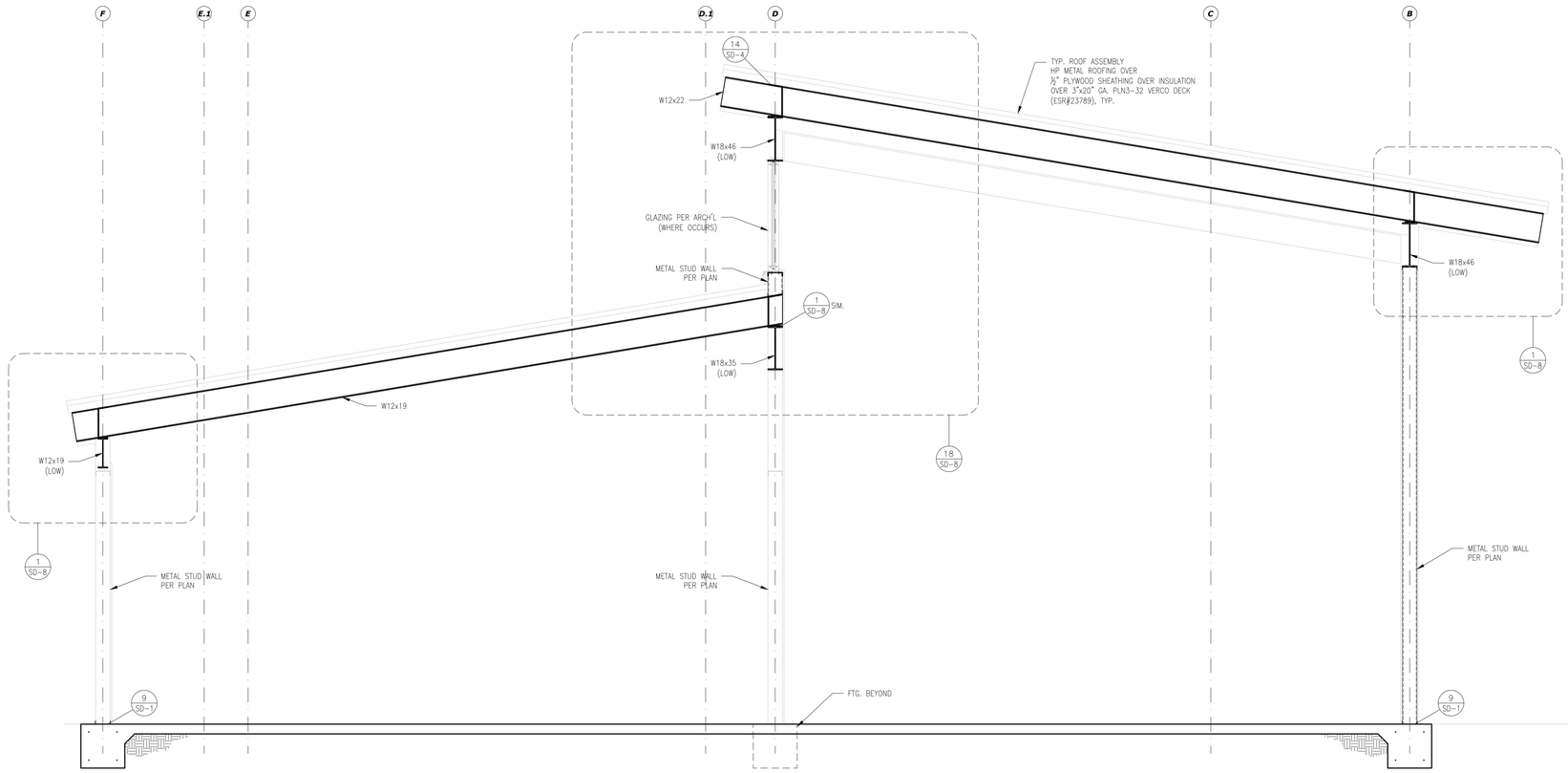
SD-6



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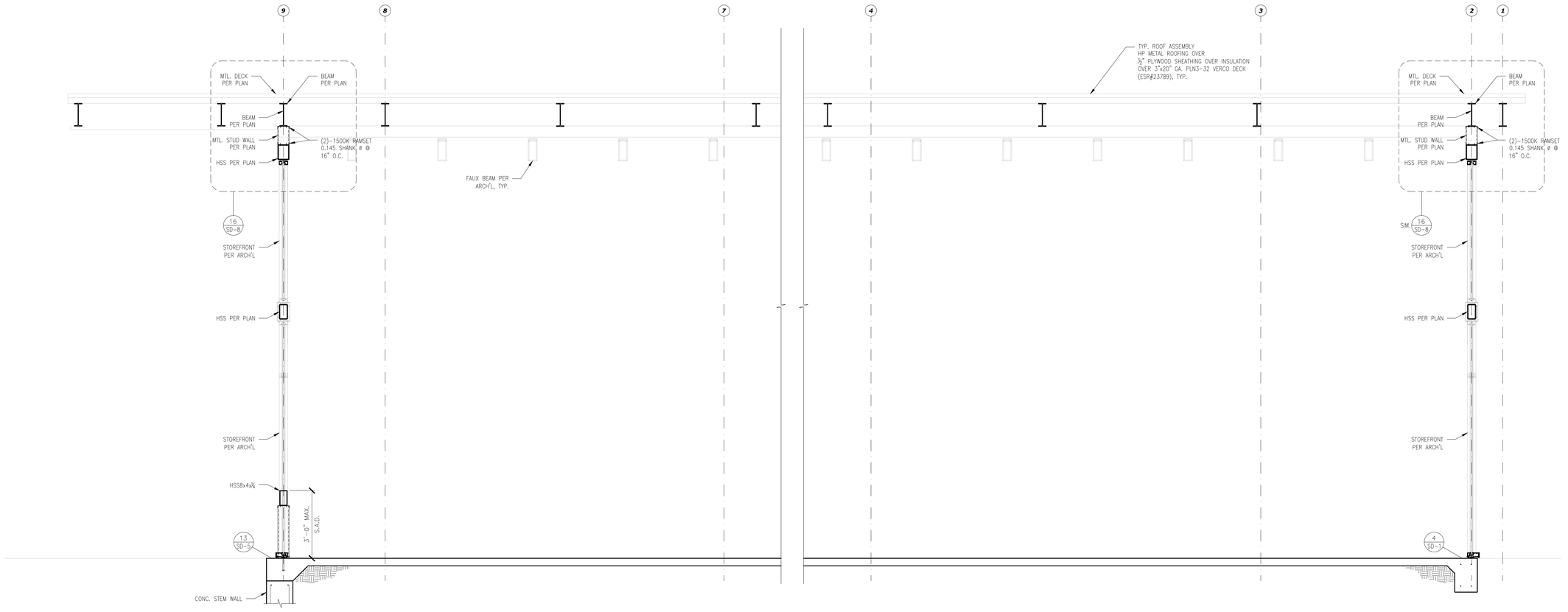

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ARCHITECT C-19670

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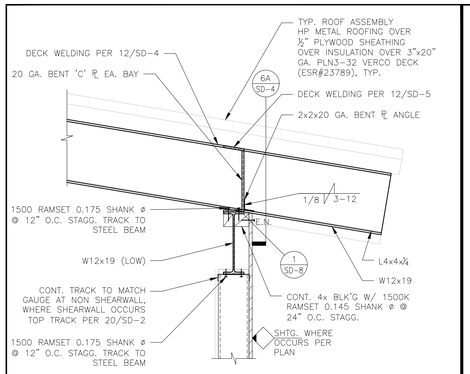
SD-7



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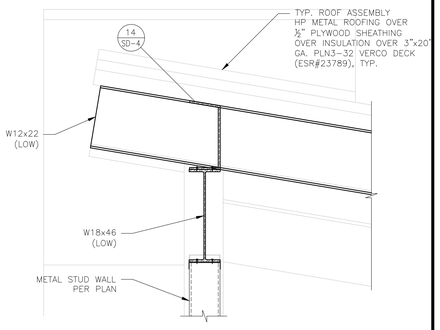

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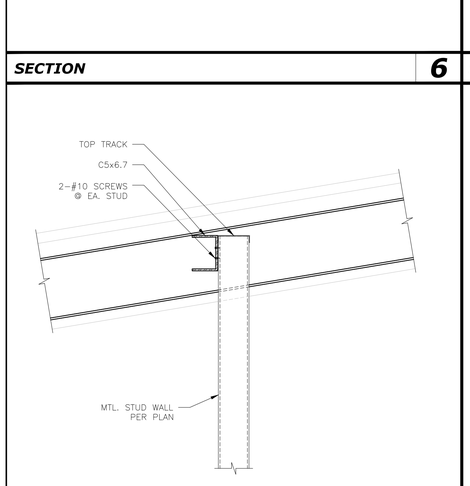

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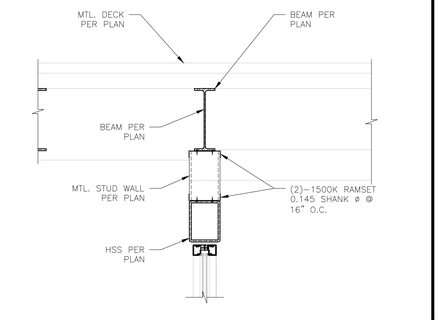

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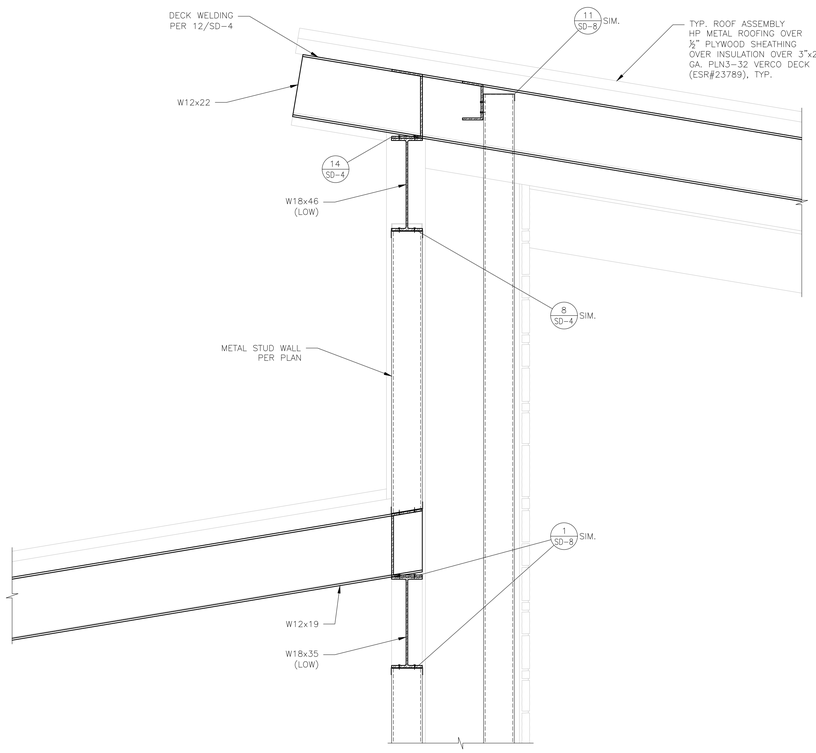

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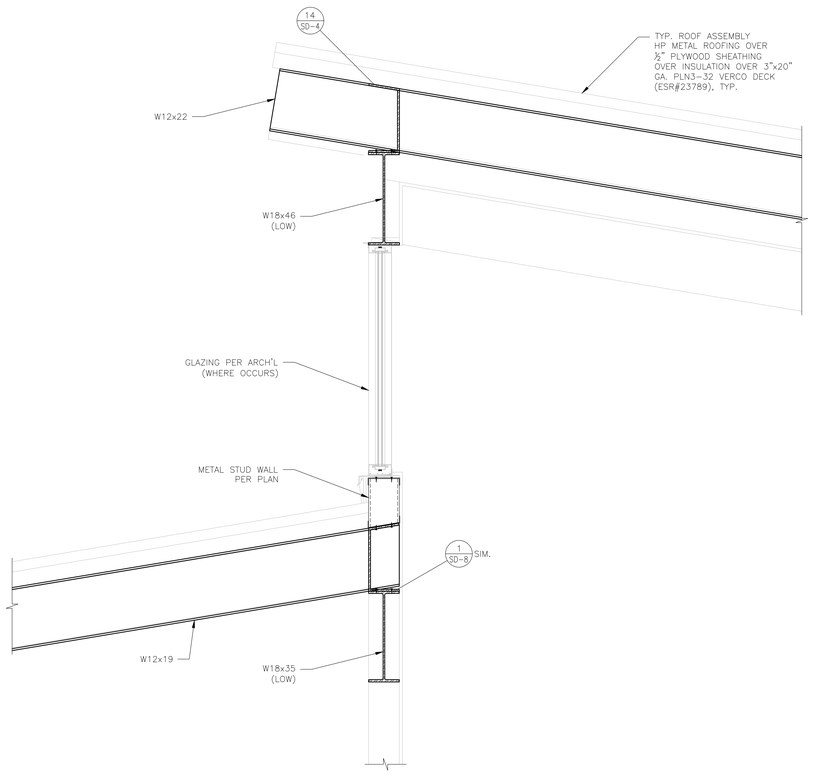

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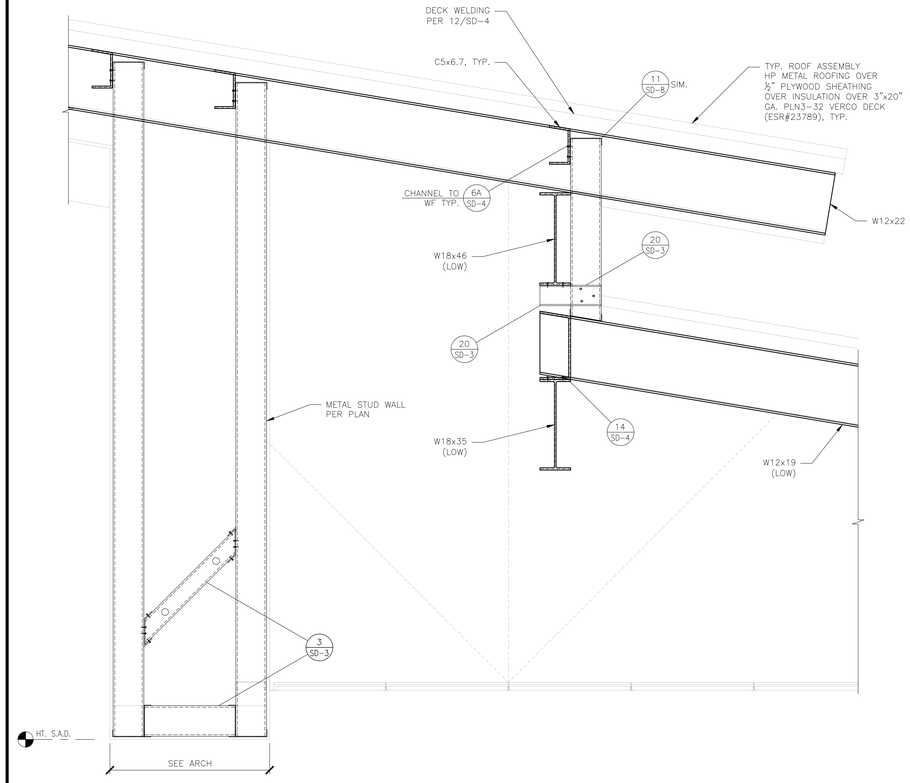

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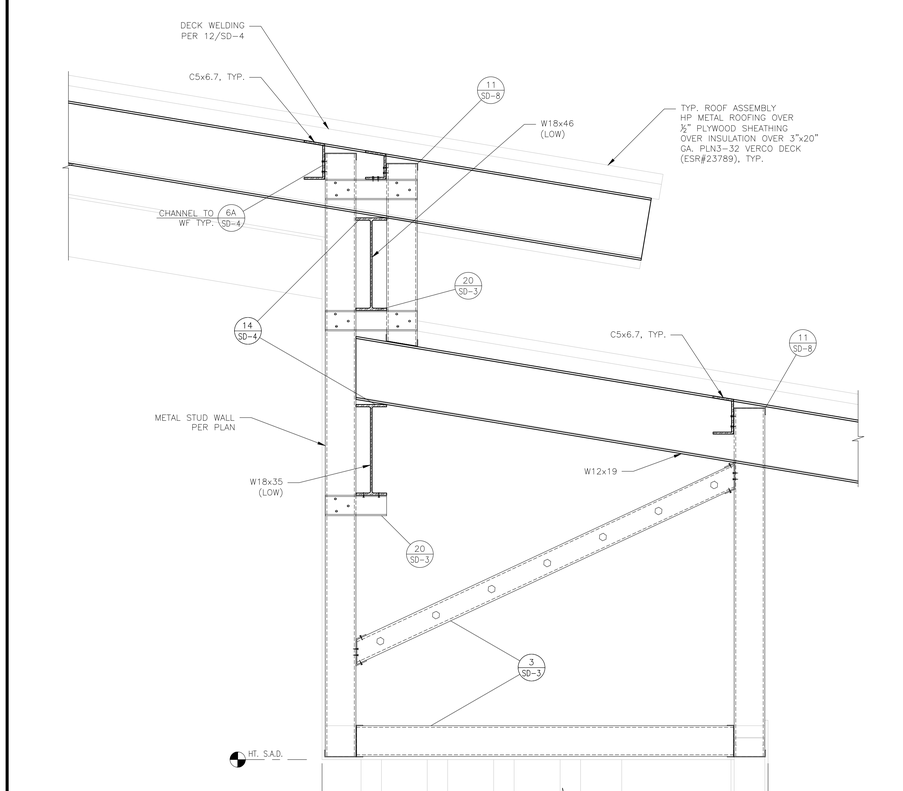

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SD-8

MECHANICAL GENERAL NOTES

All work shown herein shall comply with the requirements of the following codes:
- –2022 California Administrative Code (CAC): Part 1, Title 24, California Code of Regulations (CCR)
- –2022 California Building Code (CBC): Part 2, Title 24 CCR
- –2022 California Electrical Code (CEC): Part 3, Title 24 CCR
- –2022 California Mechanical Code (CMC): Part 4, Title 24,CCR
- –2022 California Plumbing Code (CPC): Part 5, Title 24 CCR

Furnish all labor, materials, transportation, and perform all required operations to provide complete and operable mechanical system, in accordance with the full intent and meaning of the drawings and specifications.

All locations of ductwork and equipment are shown diagrammatically. Adhere to locations as closely as possible, vary runs or shape of ductwork as required to meet structural and other interferences as required by the Architect.

Cutting, boring, sawcutting or drilling through the new or existing structural elements to be done only when detailed in the drawings or accepted by the Architect in writing, reviewed by project inspector, and with the approval of DSA representative.

Duct dimensions shown are internal. All duct shall be fabricated and installed per Chapter 6, CMC.

The contractor shall submit shop drawings and catalog sheets to the Architect of all mechanical equipment items for approval.

All equipment shall be installed with sufficient access to controls, filters, electric motors, etc. Access clearance shall be 30" or as required by the equipment manufacturer, which ever is greater. Contractors shall provide access panels where required.

The Mechanical Contractor shall coordinate all air terminals with reflected ceiling plan and all ductwork locations with work of other trades before proceeding with fabrication.

The Mechanical Contractor shall coordinate with general contractor for access to all dampers, equipment, as well as platform and curb locations, and shall make all platforms and curbs level.

Ductwork Insulation – Non Residential Mandatory Requirements:
All ductwork shall be insulated in accordance with Section 120.4 of the 2022 California Energy Code (CEC).

Control wiring shall be in electrical conduit. If conduit is subject to physical damage use rigid conduit. If wiring is in a concealed air plenum use plenum rated electrical conduit.

Controls or switches intended to be used by the occupant of a room or area to control heating, cooling or ventilation equipment shall be mounted at the heights given by section 11B–308 of the CBC. Notify the architect immediately if the mounting heights required by the CBC cannot be obtained at the location where the control device is shown on the mechanical floor plans.

Round Ductwork – 2–10" w.g. round duct through 18" in diameter shall be United Sheet Metal spiral lockseam unseal duct, or approved equal, manufactured from galvanized steel meeting the ASTM A–527–71 in the following gages:

Diameter	Metal Thickness
3–13"	26 ga.
14–23"	24 ga.
24–37"	22 ga.

Rectangular Ductwork – 2" w.g. static positive or negative pressure shall be fabricated from prime grade galvanized steel sheets of lock form quality and shall be constructed in accordance with appropriate tables of the latest SMACNA "HVAC Duct Construction Standards" handbook and Chapter 6 of the 2020 CMC.

Duct Dimension (depth or thickness)	Metal Thickness
10" and under	26 ga.
11 – 12"	26 ga.
13 – 14"	24 ga.
15 – 16"	24 ga.
17 – 18"	22 ga.

Environmental exhaust outlets shall terminate no less than 3 feet from property line, 3 feet from openings into the building and 10 feet from any forced air intake.

Factory–made flexible air ducts and connectors shall be not more than 5 feet in length and shall not be used in lieu of rigid elbows or fittings. Flexible air ducts shall be permitted to be used as an elbow at a terminal device CMC 603.4.1.

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

MECHANICAL MATERIAL NOTES

All supply and return ductwork shall be galvanized sheet metal, unless specifically indicated, and shall be constructed in strict accordance with sheet metal and conditioning contractors national association (SMACNA) standards for low pressure ducting.

All exposed duct shall be low pressure United Sheet Metal spiral lockseam duct or approved equal.

Flash and counterflash all roof penetrations as required to seal weather tight.

All ductwork shall be insulated in accordance with Section 120.4 of the 2019 California Energy Code (CEC).

All hot water piping shall be 1" minimum thickness and all refrigeration piping shall be ¾" minimum thickness, insulated in accordance with Table 120.3–A of the 2019 California Energy Code (CEC).

Thermostats shall be automatic changeover with 10°F differential between set points for full heating and full cooling. Set points for heating and cooling shall be independent, thermostats shall have setback capability.

Concealed supply and return ductwork shall be sealed airtight with Hardcast Foil–Grip #1402 tape (or approved equal) at all joints, and then joined by screws or rivets. Seal duct joints of ducts exposed to weather with Hardcast tape and RTA–50 adhesive on all sides.

Ductwork shall be adequately supported per SMACNA AG 5–4 with strap hangers.

After installation, system shall be balanced to indicated airflows (±10%). Submit balance report indicating final airflows, supply air and return air static pressures, fan amperage, and fan RPM to Mechanical Engineer for approval.

Submittals shall be required for all equipment and system components prior to installation for approval to Mechanical Engineer.

Refer to Title 24 report for Acceptance Testing requirements (form NRCC–PRF–01).

VARIABLE REFRIGERANT FLOW HEAT RECOVERY CONDENSING UNIT

MARK	MAKE	MODEL	NOMINAL TONS	REFRIGERANT	ELECTRICAL DATA (3 POINT CONNECTION)							ARI PERFORMANCE				OPT WT LBS	REMARKS
					POWER	1ST POINT		2ND POINT		3RD POINT		COOLING CAPACITY		HEATING CAPACITY			
						MCA	MOCP	MCA	MOCP	MCA	MOCP	BTUH	IEER	BTUH	COP		
HPCU–1	DAIKIN	REYQ192AATJA	16	R–410A	208/230V–3ø	59.8	60	–	–	–	–	192,000	21.00	216,000	3.5	960	SEE NOTE 1 & 2

Notes:
1. Refer to M1.01 for wiring and piping diagram and Branch Selector Box requirements.
2. Provide tag on HPCU–1 that unit serves HPFC–1 through HPFC–5.

VARIABLE REFRIGERANT FLOW FAN COIL SCHEDULE

MARK	MAKE	MODEL	NOM TONS	MOUNTING TYPE	CFM	FAN SPEED	ELECTRICAL DATA			ARI PERFORMANCE		OPT. WT.	REFRIG.	MATCHING HPCU–	OUTSIDE AIR	REMARKS
							POWER	MCA	MOCP	COOLING CAPACITY BTUH	HEATING CAPACITY BTUH					
HPFC–1	DAIKIN	FXTQ36TAVJUD	3	MULTI POSITION AIR HANDLING UNIT	1050	HIGH	208/230–1–60	4.9	15	36,000	40,000	150	R–410A	HPCU–1	125	SEE NOTES 1, 2, 3 & 4
HPFC–2	DAIKIN	FXTQ48TAVJUD	4	MULTI POSITION AIR HANDLING UNIT	1290	MED	208/230–1–60	6.5	15	48,000	54,000	150	R–410A	HPCU–1	120	SEE NOTES 1, 2, 3 & 4
HPFC–3	DAIKIN	FXMQ24PBVJU	2	CONCEALED DUCTED FAN COIL	620	MED	208/230–1–60	1.8	15	24,000	27,000	80	R–410A	HPCU–1	200	SEE NOTES 1, 2, 3 & 4
HPFC–4	DAIKIN	FXTQ60TAVJUD	5	MULTI POSITION AIR HANDLING UNIT	1530	MED	208/230–1–60	8.6	15	60,000	66,000	170	R–410A	HPCU–1	110	SEE NOTES 1, 2 & 3
HPFC–5	DAIKIN	FXMQ48PBVJU	4	CONCEALED DUCTED FAN COIL	1165	MED	208/230–1–60	3.4	15	48,000	54,000	105	R–410A	HPCU–1	270	SEE NOTES 1, 2, 3 & 4

Notes:
1. Provide with Daikin Navigation controller, 7–day programmable thermostat.
2. Refer to M1.01 for wiring and piping diagram.
3. Provide with filter module with MERV 13 filter.
4. Provide with internal condensate pump.

BRANCH SELECTOR BOX SCHEDULE

MARK	MAKE	MODEL	ELECTRICAL DATA			MATCHING HPCU–	WEIGHT	REMARKS
			POWER	MCA	MOP			
BSB–1	DAIKIN	BSF6Q54TVJ	208/230–1–60	0.6	15	HPCU–1	70	SEE NOTE 1

Notes:
1. Refer to M1.01 for wiring and piping diagram and Branch Selector Box requirements.

SPLIT SYSTEM HEAT PUMP SCHEDULE (MAINTENANCE ROOM 129)

MARK	MAKE	MOUNTING TYPE	CAPACITY(BTUH)		SEER	INDOOR UNIT							OUTDOOR UNIT					REMARKS
			COOLING	HEATING @47°F		MODEL	POWER	MIN. AMPS	FUSE SIZE	CFM	FAN SPEED	WEIGHT	MODEL	POWER	MIN. AMPS	FUSE SIZE	WEIGHT	
DS–1	DAIKIN	WALL MOUNTED DUCTLESS FAN COIL	18,000	21,600	18.5	FTX18AXVJU	–	–	–	465	LOW	35	RX18AXVJU	208/230–1–60	16.4	20	105	NOTES 1, 2 & 3

Notes:
1. Provide with Daikin controller, 7–day programmable thermostat.
2. Indoor unit is powered by outdoor unit.
3. Provide with built–in condensate pump.

EXHAUST FAN SCHEDULE

MARK	MAKE	MODEL	TYPE	FAN						MOTOR		ACCESSORIES					WEIGHT (LBS.)	REMARKS (SEE BELOW)
				CFM	CONTINUOUS CFM	SP	RPM	SONES	DRIVE	WATT (HP)	POWER	BIRD GUARD	BACKDRAFT DAMPER	ROOF CURB	ROOF JACK	WALL CAP		
EF–101	BROAN	XB110	CEILING	110	–	0.25	–	0.1	DIRECT	7.7	120V–1ø	YES	YES	NO	YES	NO	12.3	NOTE 1
EF–102	BROAN	XB50	CEILING	50	–	0.25	–	0.1	DIRECT	5.1	120V–1ø	YES	YES	NO	YES	NO	12.5	NOTE 1
EF–103	BROAN	XB110	CEILING	110	–	0.25	–	0.1	DIRECT	7.7	120V–1ø	YES	YES	NO	YES	NO	12.3	NOTE 1

Notes:
1. Provide with timeclock. Fan runs continuous during occupied hours.

GRILLE, REGISTER & DIFFUSER SCHEDULE

S1 / 400 **MARK: S–SUPPLY; R–RETURN; E–EXHAUST; T–TRANSFER; L–LOUVER CFM**

MARK	MAKE	SERIES	MODEL	SIZE	CONSTRUCTION	FINISH	DEFLECTION	MOUNTING	FACE STYLE	FRAME	T–BAR PANEL	SQ.–RND ADAPTER	OBD	FD	REMARKS (SEE BELOW)
S1	PRICE	AMD	4A	9x9	ALUMINUM	OFF–WHITE	4–WAY	24x24 LAY–IN–PANEL	LOUVER	3P	YES	YES	NO	NO	–
S2	PRICE	AMD	4A	9x9	ALUMINUM	OFF–WHITE	4–WAY	24x24 LAY–IN–PANEL	LOUVER	3P	YES	YES	NO	NO	–
S3	PRICE	AMD	4A	6x6	ALUMINUM	OFF–WHITE	4–WAY	24x24 LAY–IN–PANEL	LOUVER	3P	YES	YES	NO	NO	–
S4	PRICE	AMD	4A	6x6	ALUMINUM	OFF–WHITE	4–WAY	GYP BD CEILING	LOUVER	1	NO	YES	NO	NO	–
S5	PRICE	600	620–L	18x8	ALUMINUM	OFF WHITE	DOUBLE	SIDEWALL	HORIZONTAL VANE	F	NO	YES	NO	NO	–
S6	PRICE	600	620–L	14x6	ALUMINUM	OFF WHITE	DOUBLE	SIDEWALL	HORIZONTAL VANE	F	NO	YES	NO	NO	–
R1	PRICE	600	630–L	22x22	ALUMINUM	OFF–WHITE	–	24x24 LAY–IN–PANEL	45° VANES	TB	YES	YES	NO	NO	–
R2	PRICE	600	630–L	20x18	ALUMINUM	OFF WHITE	–	GYP BD CEILING	45° VANES	F	NO	YES	NO	NO	–
R3	PRICE	600	630–L	30x20	ALUMINUM	OFF WHITE	–	SIDEWALL	45° VANES	F	NO	YES	NO	NO	–
R4	PRICE	600	630–L	22x10	ALUMINUM	OFF WHITE	–	SIDEWALL	45° VANES	F	NO	NO	NO	NO	–

HVAC LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
		CEILING SUPPLY
		CEILING RETURN
		CEILING EXHAUST
		SIDEWALL DIFFUSER, REGISTER, GRILLE OR LOUVER
		DUCT (RECTANGULAR)
		DUCT (ROUND)
	24x12L	LINED DUCTWORK
		TURNING VANE
		FLEXIBLE DUCT
	FC	FLEXIBLE CONNECTION
	VD	MANUAL AIR VOLUME DAMPER
OAI / 500		OUTSIDE AIR INTAKE MIN. CFM
T AC–1		ROOM THERMOSTAT – SUBSCRIPT INDICATES UNIT CONTROLLED
Ø	DIA	DIAMETER
	CEF	CEILING EXHAUST FAN
	POC/POD	POINT OF CONNECTION OR DISCONNECTION
		DUCTWORK/EQUIPMENT TO BE REMOVED
DL 1FT²	DL	DOOR LOUVER – SUBSCRIPT INDICATES REQUIRED FREE AREA
		ACCESS CLEARANCE AREA – 30" OR AS REQUIRED BY THE EQUIPMENT MANUFACTURER, WHICH EVER IS GREATER

HVAC ABBREVIATIONS

AC	AIR CONDITION(–ING,–ED)	GYP	GYPSUM
ABV	ABOVE	HD	HEAD
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	HZ	HERTZ
AHJ	AUTHORITY HAVING JURISDICTION	IMP	IMPELLER
ALUM	ALUMINUM	IWC	INCHES OF WATER COLUMN
AMB	AMBIENT	KW	KILOWATT INPUT
ARCH	ARCHITECTURAL	LBS	POUNDS
ARI	AMERICAN REFRIGERATION INSTITUTE	LWT	LEAVING WATER TEMPERATURE
BD	BOARD	MBH	BTU PER HOUR (THOUSAND)
BDD	BACKDRAFT DAMPER	MCA	MINIMUM CIRCUIT AMPS
BEL	BELOW	MFGR	MANUFACTURE OR MANUFACTURER
BHP	BRAKE HORSE POWER	MU/MUA	MAKE UP AIR
BLDG	BUILDING	(N)	NEW
BTUH	BRITISH THERMAL UNIT / HOUR	NOM	NOMINAL
CA	COMBUSTION AIR	NTS	NOT TO SCALE
CAP	CAPACITY	OA	OUTSIDE AIR
CD	CONDENSATE DRAIN	OAI	OUTSIDE AIR INTAKE
CFD	CEILING FIRE DAMPER	OBD	OPPOSED BLADE DAMPER
CFM	CUBIC FEET PER MINUTE	OPT	OPERATING
CONN	CONNECTION	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
CONT	CONTINUATION	PD	PRESSURE DROP
CSE	CALIFORNIA SEASONAL EFFICIENCY	PSI	POUNDS PER SQUARE INCH
DB	DRY BULB TEMPERATURE	RA	RETURN AIR
DET	DETAIL	REFRIG	REFRIGERANT
DN	DOWN	RM	ROOM
DSA	DEPARTMENT OF THE STATE ARCHITECT	RND	ROUND
(E)	EXISTING	SA	SUPPLY AIR
EA	EXHAUST AIR	SEER	SEASONAL ENERGY EFFICIENCY
EDB	ENTERING DRY BULB TEMPERATURE	SFD	SMOKE FIRE DAMPER
EER	ENERGY EFFICIENCY RATIO	SHT	SHEET
EFF	EFFICIENCY	SM	SHEET METAL
ELEC	ELECTRICAL	SOV	SHUT OFF VALVE
ESP	EXTERNAL STATIC PRESSURE	SP	STATIC PRESSURE
EWB	ENTERING WET BULB	SQ	SQUARE
EWT	ENTERING WATER TEMPERATURE	SS	STAINLESS STEEL
EVAP	EVAPORATOR	SSE	STEADY STATE EFFICIENCY
FA	FACE AREA	SST	SATURATED SUCTION TEMPERATURE
FC	FLEXIBLE CONNECTION	TYP	TYPICAL
FD	FIRE DAMPER	TXV	THERMAL EXPANSION VALVE
FLA	FULL LOAD AMP	UON	UNLESS OTHERWISE NOTED
FPM	FEET PER MINUTE	VD	VOLUME DAMPER
FSC	FAN SPEED CONTROL	WB	WET BULB TEMPERATURE
GA	GAGE OR GAUGE	WC	WATER COLUMN
GALV	GALVANIZED	WG	WATER GAUGE
GPM	GALLONS PER MINUTE	WT	WEIGHT

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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY NO. C–19670 11–30–25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C–19670

CONSULTANT

Brummel Mechanical Engineering, LLP
1403 Higuera Street
San Luis Obispo CA 93401
keith@bmehvac.com | brent@bmehvac.com
(805) 543-5636

REGISTERED PROFESSIONAL ENGINEER KEITH BRUMMEL EXP 03/24 M 17,084 MECHANICAL STATE OF CALIFORNIA

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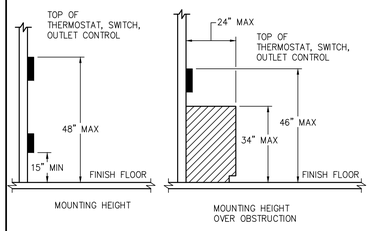
MECHANICAL
SCHEDULE, NOTES, LEGEND
& ABBREVIATIONS

M1.00



13 THERMOSTAT, SWITCH, OUTLET CONTROL MOUNTING
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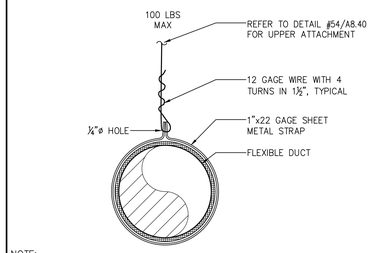
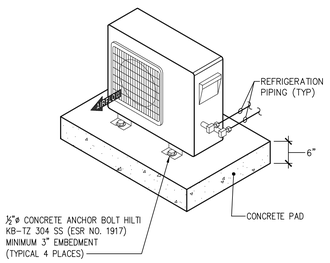


NOTE:
1. USE FLEXIBLE DUCT ONLY AS REQUIRED TO MAKE CONNECTION.
2. MAXIMUM LENGTH NOT TO EXCEED 5'-0".
3. SUPPORT DUCT AT 2' ON CENTER MAXIMUM, TYPICAL.

9 TYPICAL FLEX DUCT HANGER
NTS



4 CONDENSER MOUNTING
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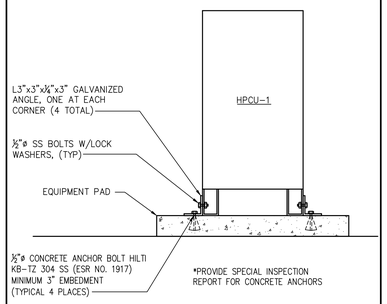

3 VRV CONDENSING UNIT ANCHOR
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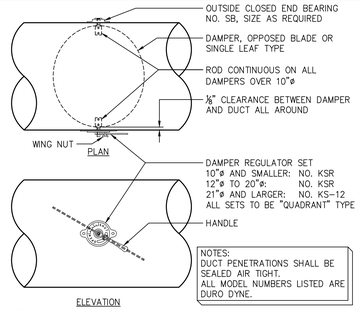

12 ROUND VOLUME DAMPER
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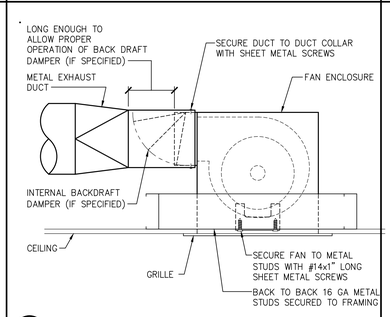

8 CEILING EXHAUST FAN
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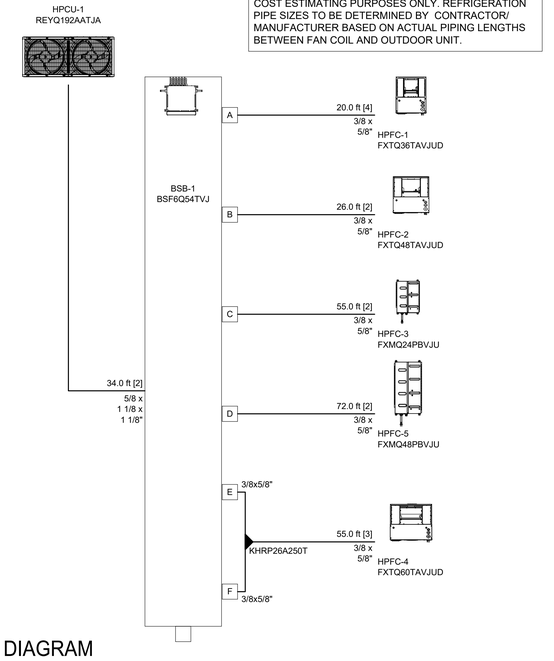
REFRIGERATION PIPE SIZES SHOWN ON DRAWINGS FOR COST ESTIMATING PURPOSES ONLY. REFRIGERATION PIPE SIZES TO BE DETERMINED BY CONTRACTOR/ MANUFACTURER BASED ON ACTUAL PIPING LENGTHS BETWEEN FAN COIL AND OUTDOOR UNIT.



2 HPCU-1 PIPING DIAGRAM
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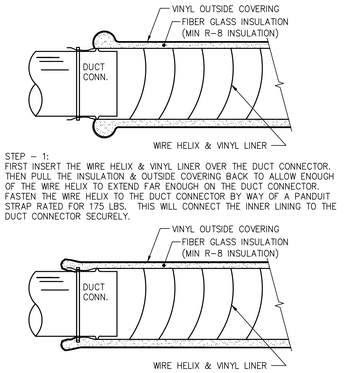
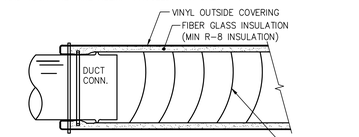


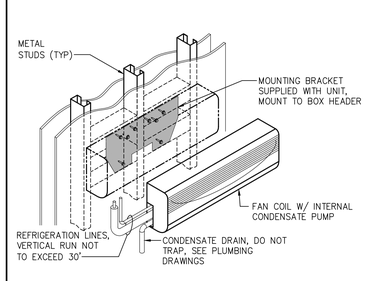
STEP – 1:
FIRST INSERT THE WIRE HELIX & VINYL LINER OVER THE DUCT CONNECTOR. THEN PULL THE INSULATION & OUTSIDE COVERING BACK TO ALLOW ENOUGH OF THE WIRE HELIX TO EXTEND FAR ENOUGH ON THE DUCT CONNECTOR. FASTEN THE WIRE HELIX TO THE DUCT CONNECTOR BY WAY OF A PANDUIT STRAP RATED FOR 175 LBS. THIS WILL CONNECT THE INNER LINING TO THE DUCT CONNECTOR SECURELY.

STEP – 2:
AFTER FOLLOWING ALL OF STEP 1, PROCEED BY PULLING THE FIBERGLASS INSULATION & VINYL OUTSIDE OVER TOP OF THE WIRE HELIX AND THE PANDUIT YOU JUST PUT ON. CONTINUE ON WITH THE OUTSIDE COVERING AND TUCK THE WIRE HELIX. PROCEED WITH STEP – 3.

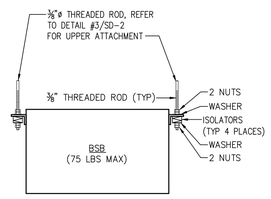


STEP – 3:
AFTER FOLLOWING ALL OF STEPS 1 & 2, CONTINUE BY INSTALLING A SECOND PANDUIT STRAP AROUND THE ENTIRE HELIX, FIBERGLASS & VINYL OUTSIDE. THIS PANDUIT MUST ALSO BE RATED FOR 175 LBS.

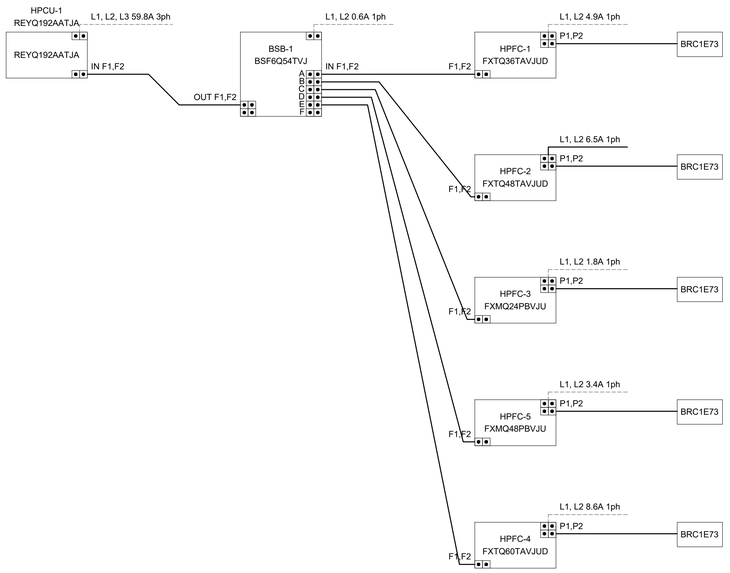
11 FLEX CONN. INSTALLATION
NTS



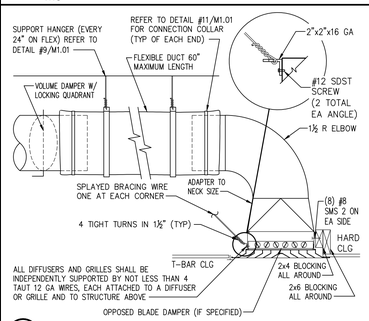
7 HIGH WALL FAN COIL MOUNTING
NTS



6 BRANCH SELECTOR BOX (BSB) SUPPORT
NTS



1 HPCU-1 WIRING DIAGRAM
NTS



10 DIFFUSER CONNECTION
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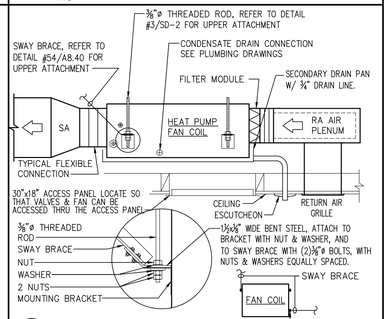

5 FAN COIL MOUNTING
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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY C-19670 11-30-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

Brummel Mechanical Engineering, LLP
1403 Higuera Street
San Luis Obispo CA 93401
keith@bmehvac.com | brent@bmehvac.com
(805) 543-6636

REGISTERED PROFESSIONAL ENGINEER KEITH BRUMMEL EXP 03/24 M 17,084 MECHANICAL STATE OF CALIFORNIA

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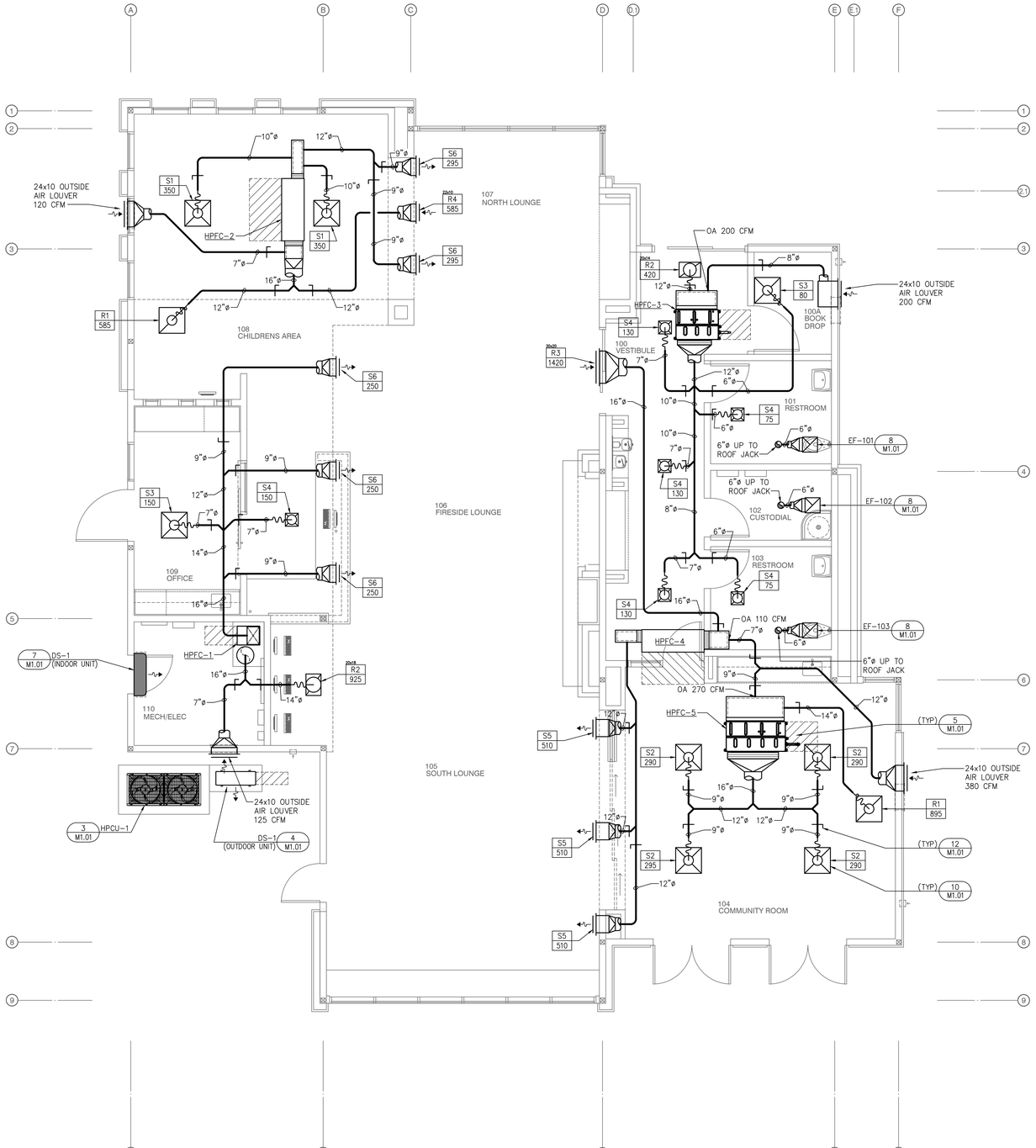
MECHANICAL DETAILS

M1.01



Mechanical Floor Plan

Scale: 1/4" = 1'-0"

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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

Brummel Mechanical Engineering, LLP
1403 Higuera Street
San Luis Obispo CA 93401
keith@bmehvac.com | brent@bmehvac.com
(805) 543-6636

REGISTERED PROFESSIONAL ENGINEER KEITH BRUMMEL EXP 03/24 M 17,084 MECHANICAL STATE OF CALIFORNIA

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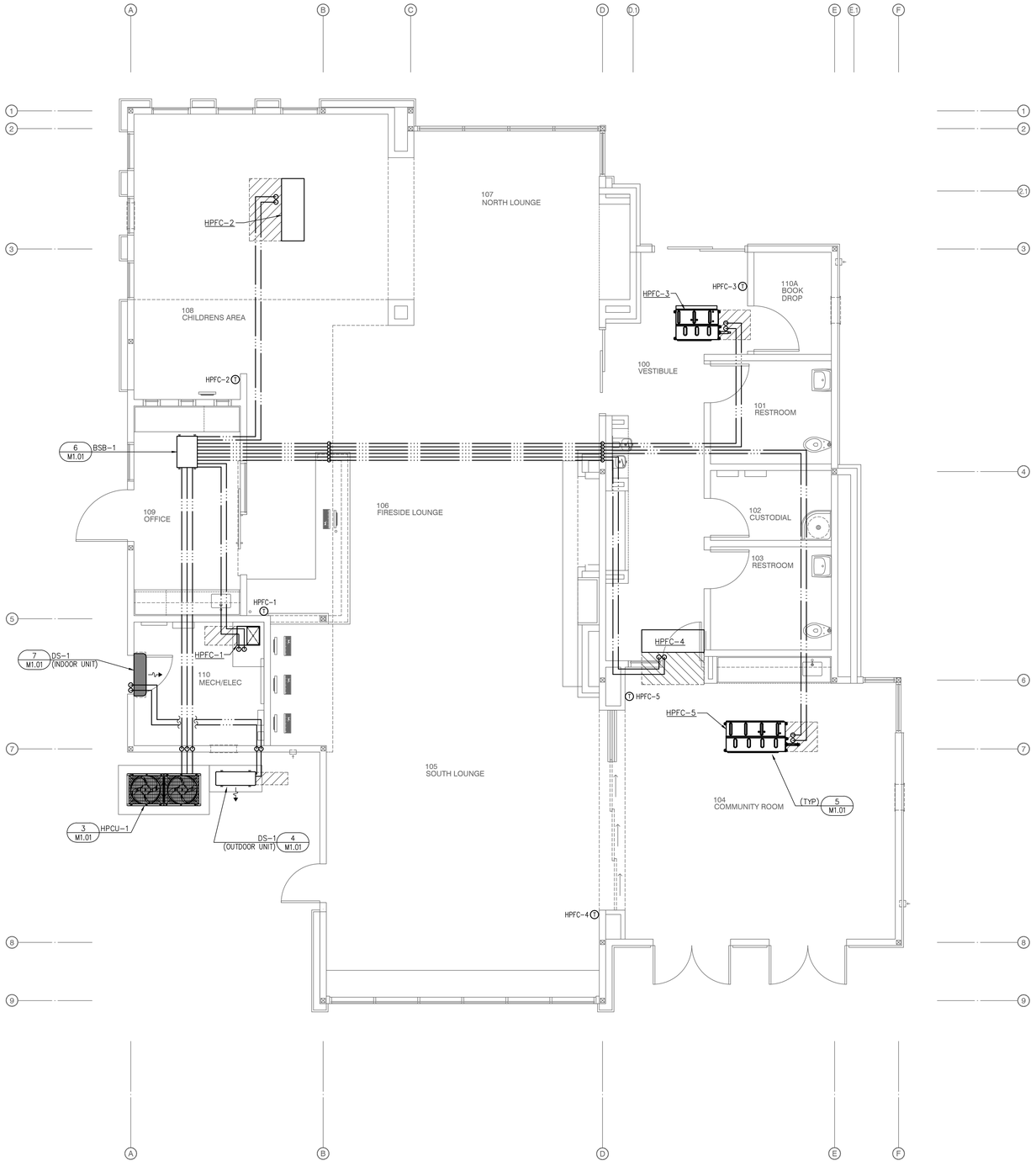
MECHANICAL FLOOR PLAN

M2.10



Mechanical Refrigeration Piping Floor Plan

Scale: 1/4" = 1'-0"

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FOGARTY
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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

Brummel Mechanical Engineering, LLP
1403 Higuera Street
San Luis Obispo CA 93401
keith@bmehvac.com | brent@bmehvac.com
(805) 543-6636

REGISTERED PROFESSIONAL ENGINEER
KEITH BRUMMEL
EXP 03/24
M 17,084
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MECHANICAL
REFRIGERATION PIPING
FLOOR PLAN

M2.20

PLUMBING GENERAL NOTES

All work shown herein shall comply with the requirements of the following codes:

- 2022 California Administrative Code (CAC): Part 1, Title 24, California Code of Regulations (CCR)
- 2022 California Building Code (CBC): Part 2, Title 24 CCR
- 2022 California Electrical Code (CEC): Part 3, Title 24 CCR
- 2022 California Mechanical Code (CMC): Part 4, Title 24,CCR
- 2022 California Plumbing Code (CPC): Part 5, Title 24 CCR
- 2022 California Energy Code (CEnC): Part 6, Title 24 CCR

Furnish all labor, materials, transportation, and perform all required operations to provide a complete and operable system, in accordance with the full intent and meaning of the Drawings, Specifications, and per standard trade practices.

The installation of piping and equipment shall be made in such a manner to clear beams and obstructions. Do not cut into or reduce the size of plates or any load carrying members without approval of the Architect. Check drawings and work of others to prevent interference.

All plumbing fixtures, fittings and piping shall be "lead-free" per California AB1953 and meet the requirements of ANSI/NSF 61, Section 9.

PLUMBING

All locations of piping and equipment are shown diagrammatically. Adhere to locations as closely as possible. Vary runs or arrangement of piping as required to meet structural and other interferences or as required by Architect.

Pipe sizes shown on drawings shall be installed as shown. Branch line sizes to fixtures when not indicated shall be per minimum branch line size as indicated on fixture schedule. Equipment and appliance supply piping shall be as indicated on drawings. Contractor shall verify size of equipment or appliance connection and provide reducing fittings to suit.

No product will be accepted on the job site without prior approval by the Architect. The Contractor shall submit catalog sheets of all plumbing equipment.

Rough-in and/or install plumbing fixtures at heights indicated on plans, or as directed by Architect. If a conflict in fixture location is noted on the drawings, the architectural drawings shall take precedence.

All equipment shall be installed with sufficient access to controls, filters, electric motors, etc. Access clearance shall be 30" or as required by the equipment manufacturer, which ever is greater. Contractors shall provide access panels where required.

Disinfection of the potable water system: The copper hot and cold water distribution system shall be disinfected prior to being placed in service. The system shall be disinfected in accordance with AWWA C651 or the following requirements:

- The piping system shall be flushed with potable water until discolored water does not appear at any of the outlets.
- The system shall be filled with a water chlorine solution containing at least 50 parts per million of chlorine. The system shall be valved off and allowed to stand for 24 hours. Or, the system shall be filled with a water chlorine solution containing at least 200 parts per million of chlorine. The system shall be valved off and allowed to stand for 3 hours.
- Following the standing time, the system shall be flushed with water until the chlorine is purged from the system.

Hose bibs shall be fitted with a non-removable back-flow device. [§ 603.5.7 CPC]

MANDATORY TITLE 24 MEASURES

Service Water Heating Systems

Service water heating systems and equipment may be installed only if the manufacturer has certified that the system or equipment complies with all the requirements of section 113 of the Energy Efficiency Standards.

Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use as listed in Table 3, Chapter 49 of the 2019 ASHRAE Handbook, HVAC Applications Volume.

Lavatories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110°F.

Lavatories in restrooms of public facilities shall be equipped with an outlet devices that limit the flow of hot water to a maximum of 0.5 gallons per minute.

PLUMBING MATERIAL NOTES

1.1 WASTE, VENT AND SEWER PIPING

A. Above and Below Grade

1. Schedule 40 PVC DWV plastic pipe with solvent-cemented drainage pattern fittings complying with ASTM D-2665 – Latest Issue.

1.2 CONDENSATE PIPING:

A. Piping shall be hard drawn type "M" copper made up with wrought copper solder joint type fittings.

1.3 DOMESTIC WATER PIPING:

A. Piping above ground and within building shall be type "L" hard drawn copper tube made up with wrought or forged copper fittings. No type "M" copper water piping is permitted within the building.

B. Hot water piping shall be insulated with Owens Corning fiberglass heavy density pipe insulation 25 ASU/SSL-II. Closed cell polyethylene foam may be used at the contractor's option.

C. Only lead-free solder may be used on the water system.

1.4 GAS PIPING:

A. Piping underground and exterior to the building shall be wrapped standard weight Schedule 40 black pipe made up with standard weight welded fittings. PE and fittings pipe may be used at the contractor's option when authorized by the local jurisdiction

B. Piping exposed to the weather shall be standard weight Schedule 40 pipe made up with standard weight welded fittings. Pipe and fittings shall be primed and painted.

C. Gas piping within the building shall be standard weight Schedule 40 T&C black pipe made up with banded black malleable iron fittings..

WATER HEATER SCHEDULE

MARK	MAKE	MODEL	STORAGE CAPACITY (GALLONS)	DIMENSIONS	FULL WEIGHT (POUNDS)	INLET/ OUTLET (INCHES)	POWER			AMPS	KW	BRANCH SIZE (INCHES)	FLUE SIZE (INCHES)	REMARKS
							VOLTS	PH	CY					
WH-1	BRADFORD WHITE	LE115U5-1	15	20-1/4" x 18"ø	180	3/4"	120	1	60	–	3.0	–	–	–
WH-2	CHRONOMITE	C-MICRO CM-20L/208	–	6-1/4" x 10" x 3"	4	3/8"	240	1	60	40	–	–	–	9.6 KW

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MIN. BRANCH SIZE (")				MAKE AND MODEL	FITTINGS	REMARKS
		W	V	CW	HW			
DF-1	ADA DRINKING FOUNTAIN WALL MOUNTED, DUAL HEIGHT W/ BOTTLE FILLING STATION	2	1-1/2	1/2	–	ELKAY "EZH2O" #LZWS-EDFPBM117K 38-1/2" x 19-3/8" x 34-5/8", STAINLESS STEEL BOWL	PROVIDE WITH FILTER, MOUNTING PLATE, STOPS AND SUPPLIES	INSTALL PER ADA REQUIREMENTS. REFER TO ARCHITECTURAL DRAWING FOR ACCESSIBLE DIMENSIONED DRAWINGS AND ELEVATIONS.
FD-1	FLOOR DRAIN W/ SQUARE STRAINER & TRAP PRIMER	2	1-1/2	1/2	–	JR. SMITH #2005Y02-B06NB-P050-BHP-U, 6"x6", CAST IRON W/ BRONZE STRAINER	JAY R. SMITH TRAP PRIMER #2694	REFER TO DETAIL #5/P1.00 FOR INSTALLATION
HB-1	HOSE BIBB-RECESSED FREEZELESS WALL HYDRANT W/ VACUUM BREAKER	–	–	3/4	–	WOODFORD #B67 CHROME PLATED BRASS	PROVIDE TEE KEY	
L-1	ADA LAVATORY WALL MOUNTED 0.35 GPM FAUCET	2	1-1/2	1/2	1/2	KOHLER "KINGSTON" #K-2005, 21-1/4"x 18-1/8" VITREOUS CHINA, WHITE	CHICAGO FAUCET #116.211.AB.4, WITH 4" COVER PLATE #240.627.21.1, GRID STRAINER, STOPS, SUPPLIES & C.P. BRASS "P" TRAP	INSTALL PER ADA REQUIREMENTS. REFER TO ARCHITECTURAL DRAWING FOR ACCESSIBLE DIMENSIONED DRAWINGS AND ELEVATIONS. REFER TO DETAIL #10/P1.00 FOR INSTALLATION
MS-1	MOP SINK FLOOR MOUNTED	3	2	3/4	3/4	COMMERCIAL ENAMELING #871, 28"x 28" ENAMLED CAST IRON	CHICAGO FAUCET #897-CP, COMMERCIAL ENAMELING DRAIN #B71-3 & RIM GUARD #B-872	
S-1	ADA DOUBLE BOWL SINK COUNTER MOUNTED 1.0 GPM FAUCET	2	1-1/2	3/4	3/4	ELKAY #LRADQ3321 W/ MR2 HOLE DRILLING CONFIGURATION, 33" x 21-1/4" x 6-1/2" 18 GA. STAINLESS STEEL	CHICAGO FAUCET #2302-E73ABCP, ELKAY STRAINER, #LK35, STOPS, SUPPLIES & CP BRASS "P" TRAP	INSTALL PER ADA REQUIREMENTS. REFER TO ARCHITECTURAL DRAWING FOR ACCESSIBLE DIMENSIONED DRAWINGS AND ELEVATIONS.
WC-1	ADA WATER CLOSET (HET) FLOOR MOUNTED ELONGATED, 1.28 GPF BATTERY OPERATED SENSOR	3	2	1-1/4	–	KOHLER "HIGHCLIFF" ULTRA #K-96057, 26-1/8" x 14-5/8" x 16-5/8" RIM, VITREOUS CHINA	SLOAN ROYAL FLUSH VALVE #62 8111-1.28, BEMIS #1955SSCT ELONGATED OPEN FRONT SEAT	INSTALL PER ADA REQUIREMENTS. REFER TO ARCHITECTURAL DRAWING FOR ACCESSIBLE DIMENSIONED DRAWINGS AND ELEVATIONS.

PLUMBING ABBREVIATIONS

AB	ANCHOR BOLT	CONT	CONTINUE(D)	GALV	GALVANIZED	MIN	MINIMUM
ABV	ABOVE	CP	CHROME PLATED, CIRCULATING PUMP	GPM	GALLONS PER MINUTE	(N)	NEW
ADA	AMERICAN DISABILITIES ACT	CY	CYCLES	HDR	HEADER	NPS	NOMINAL PIPE SIZE
AFF	ABOVE FINISHED FLOOR	FU	FIXTURE UNITS	HP	HORSEPOWER	NTS	NOT TO SCALE
AFG	ABOVE FINISHED GRADE	DN	DOWN	IE	INVERT ELEVATION	PG	PRESSURE GAUGE
AMP	AMPERAGE	(E)	EXISTING	IPS	IRON PIPE SIZE	PH	PHASE
ARCH	ARCHITECT	ELEC	ELECTRICAL	KW	KILOWATTS	PS	PIPE SUPPORT
BEL	BELOW	EQPT	EQUIPMENT	LAV	LAVATORY	PSI	POUNDS PER SQUARE INCH
BFP	BACKFLOW PREVENTOR	FR	FROM	LBS	POUNDS	RM	ROOM
BLDG	BUILDING	FT	FLUSH TANK	MAX	MAXIMUM	RPM	REVOLUTIONS PER MINUTE
CFH	CUBIC FOOT PER HOUR	FU	FIXTURE UNITS	MBTUH	BTU PER HOUR (THOUSANDS)	RWL	RAIN WATER LEADER
CI	CAST IRON	FV	FLUSH VALVE	MECH	MECHANICAL	RWO	RAIN WATER OVERFLOW
C	CENTER LINE	GA	GAGE OR GAUGE	MFR	MANUFACTURE OR MANUFACTURER	S	SOIL OR SEWER
CONN	CONNECTION						

SOV	SHUT-OFF VALVE		
T	THERMOMETER		
TA	TEMPERATURE		
TK	TANK		
TYP	TYPICAL		
UON	UNLESS OTHERWISE NOTED		
V	VENT		
VTR	VENT THRU ROOF		
W	WASTE		
W/	WITH		
W/O	WITHOUT		
WC	WATER CLOSET		
WFU	WATER FIXTURE UNIT		
WT	WEIGHT		

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
	GV	GATE VALVE
	BV	BALL VALVE
	CV	CHECK VALVE
	TPV	TRAP PRIMER VALVE
	PRV	PRESSURE REDUCING OR REGULATOR VALVE
	T&P	TEMPERATURE PRESSURE RELIEF VALVE
	DCFBFP	DOUBLE CHECK VALVE BACK FLOW PREVENTOR
	RPBFP	REDUCE PRESSURE BACKFLOW PREVENTOR
		VALVE IN RISER
	HB	HOSE BIBB
	RHB	RECESSED HOSE BIBB
	YB	SOV IN YARD BOX
	FCO	FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE
WCO	WCO	WALL CLEANOUT
		UNION
		PIPE UP
		PIPE DOWN
		PIPE CONNECTION
		CAPPED/PLUGGED PIPE
		FLOOR DRAIN
	POC/POD	POINT OF CONNECTION OR DISCONNECTION
	WHA	WATER HAMMER ARRESTOR
	S/W	SOIL OR WASTE BELOW GRADE
	S/W	SOIL OR WASTE ABOVE GRADE
CD	CD	CONDENSATE DRAIN
	V	SANITARY VENT
	CW	COLD WATER
	HW	HOT WATER
TP	TP	TRAP PRIMER LINE

UTILITY SIZING

DOMESTIC WATER SERVICE

TOTAL WSFU	FT/FV	GPM	PIPE SIZE	METER SIZE	STREET PSI	REGULATED PSI	PSI/100' FRICTION
22.5	FV	37	1-1/2"	1"	–	–	8.0

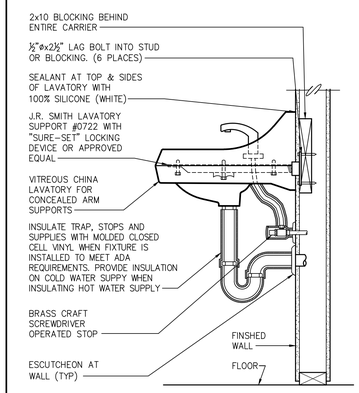
MAXIMUM FIXTURE UNITS ALLOWED	PIPE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
	HOT WATER (5 FPS MAX.)	2	7	17	28	47	115	–	–
	COLD WATER (8 FPS MAX.)	3	11	25	55	96	249	–	–
	FLUSH VALVES (8 FPS MAX.)	–	–	–	14	31	127	–	–

Piping sized per 2022 California Plumbing Code

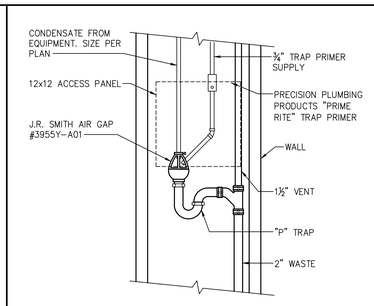
SEWER LINE

TOTAL DFU	PIPE SIZE	BUILDING DRAIN SLOPE	BUILDING SEWER SLOPE
18	4"	2%	2%

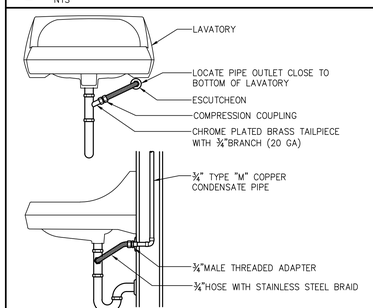
Piping sized per 2022 California Plumbing Code



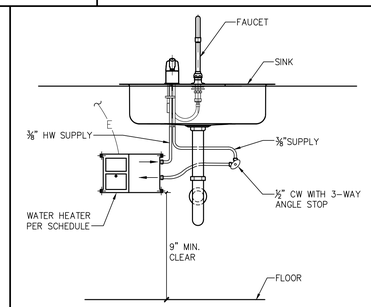
10 LAVATORY INSTALLATION
NTS



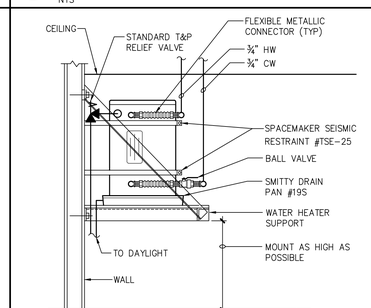
9 AIR GAP FITTING IN WALL
NTS



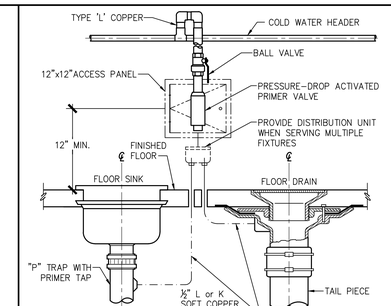
8 CONDENSATE DRAIN CONN.
NTS



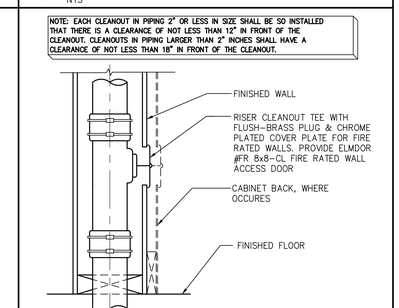
7 WATER HEATER (WH-2)
NTS



6 WATER HEATER (WH-1)
NTS



5 FD WITH TRAP PRIMER
NTS



4 WALL CLEANOUT
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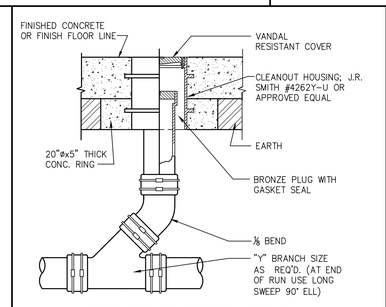
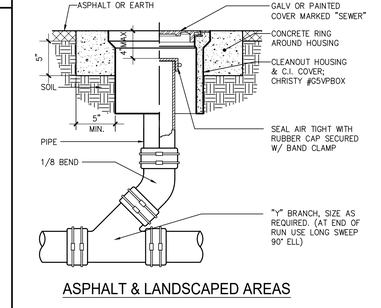
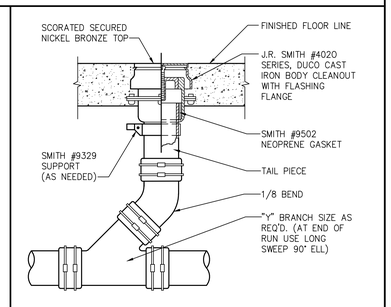


FINISHED CONCRETE AREAS

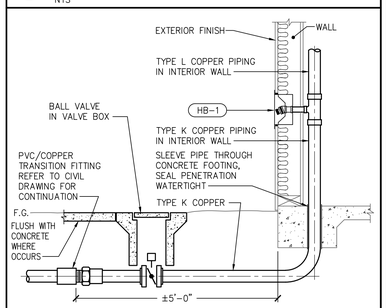


ASPHALT & LANDSCAPED AREAS

3 CLEANOUT TO GRADE
NTS



2 FLOOR CLEANOUT
NTS



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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY RENEWAL 08-31-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

Brummel Mechanical Engineering, LLP
1403 Higuera Street
San Luis Obispo CA 93401
keith@bmehvac.com | brent@bmehvac.com
(805) 543-6636

REGISTERED PROFESSIONAL ENGINEER KEITH BRUMMEL EXP 03/24 M 17,084 MECHANICAL STATE OF CALIFORNIA

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PROJECT INFO

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Date	11.30.22
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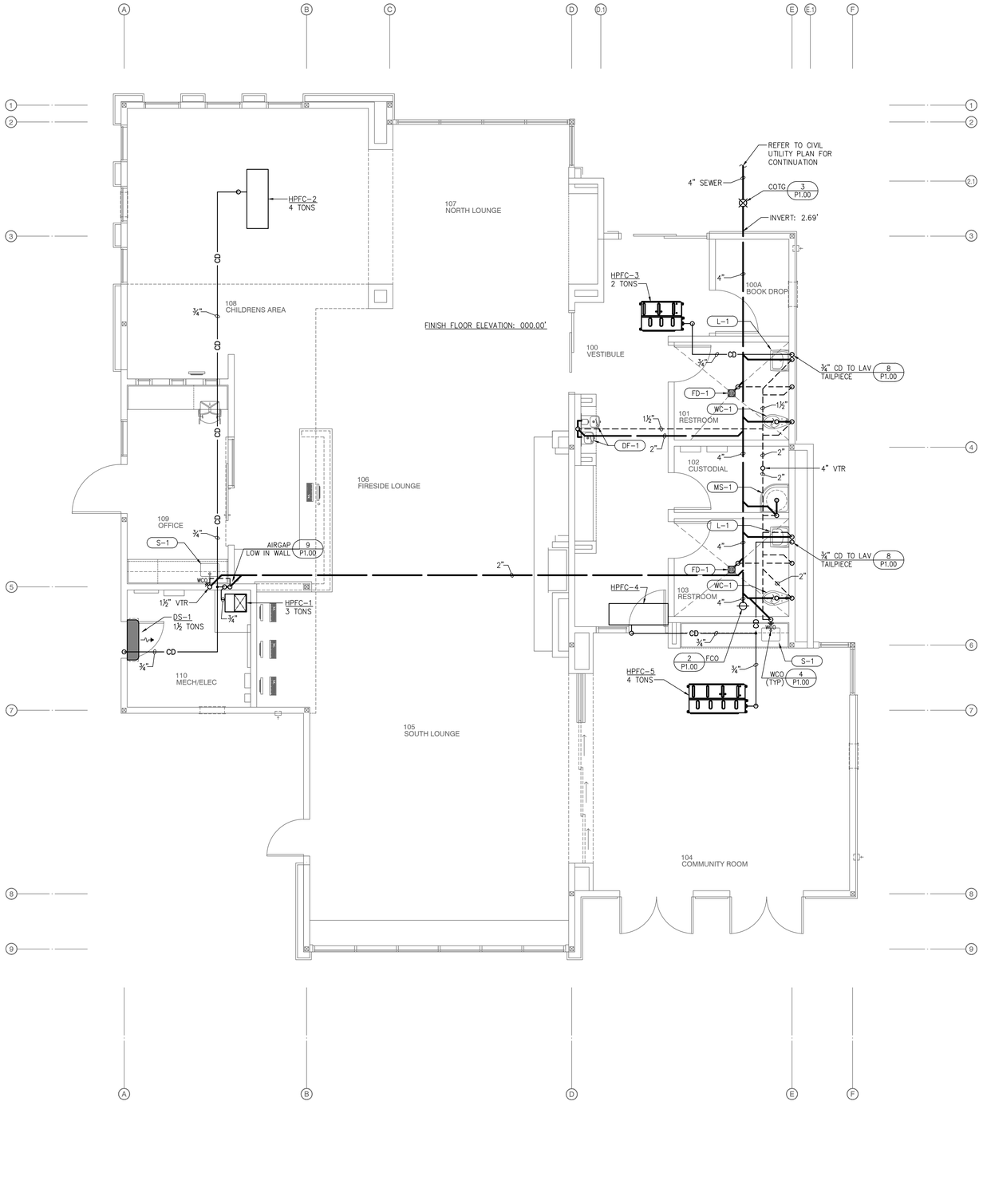
PLUMBING SCHEDULE, NOTES, LEGEND & ABBREVIATIONS

P1.00



Plumbing Floor Plan - Waste & Vent Plan

Scale: 1/4" = 1'-0"

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ARCHITECT

LICENSED ARCHITECT
JAMES PATRICK FOGARTY
C-19670
11-30-23
STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

Brummel Mechanical Engineering, LLP
1403 Higuera Street
San Luis Obispo CA 93401
keith@bmehvac.com | brent@bmehvac.com
(805) 543-6636

REGISTERED PROFESSIONAL ENGINEER
KEITH BRUMMEL
EXP 03/24
M 17,084
MECHANICAL
STATE OF CALIFORNIA

BME JOB #22-147

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Date	11.30.22
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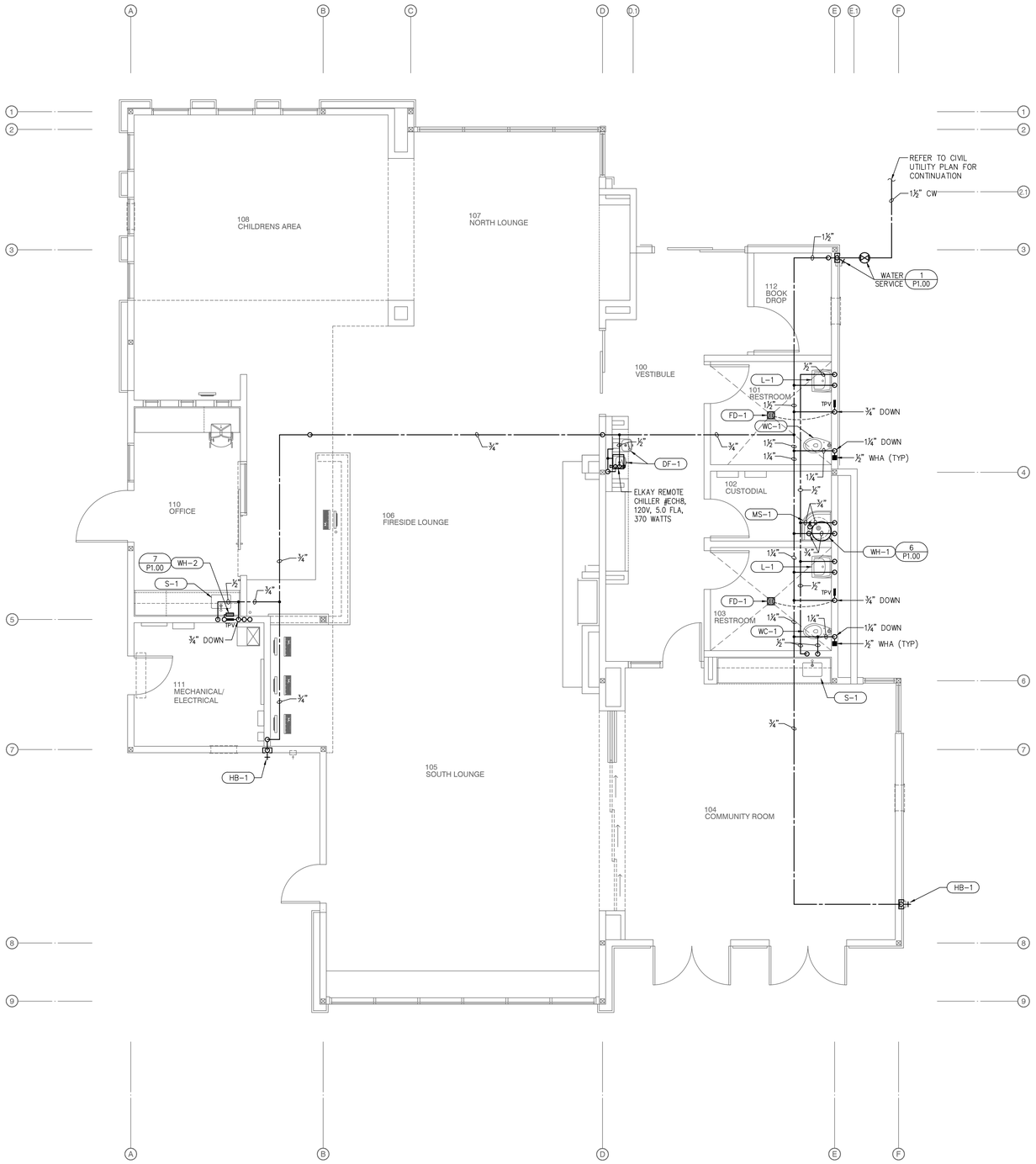
PLUMBING
FLOOR PLAN
WASTE & VENT PLAN

P2.10



Plumbing Floor Plan - Hot & Cold Water Plan

Scale: 1/4" = 1'-0"

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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY 12-30-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

Brummel Mechanical Engineering, LLP
1403 Higuera Street
San Luis Obispo | CA 93401
keith@bmehvac.com | brent@bmehvac.com
(805) 543-6636

REGISTERED PROFESSIONAL ENGINEER KEITH BRUMMEL EXP 03/24 M 17,084 MECHANICAL STATE OF CALIFORNIA

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PLUMBING
FLOOR PLAN
HOT & COLD WATER PLAN

P2.20

FIXTURE SCHEDULE

FIXTURE SYMBOL (3-A-38); 3 = CIRCUIT NUMBER, A = FIXTURE TYPE, 38 = FIXTURE WATTAGE

TYPE	WATTS	LAMPS	VOLT	MANUFACTURER	CATALOG NO.	MOUNT	NOTES
A	38	L.E.D.	120-277V	LITHONIA	2BLT4-48L-ADP-EZ1-LP840-N100-LATC	FLUSH T-BAR	PER #1/E5.00
AE	38	L.E.D.		LITHONIA	2BLT4-48L-ADP-EZ1-LP840-N100-E10WLCP-LATC	FLUSH T-BAR	PER #1/E5.00 (1)
B	49	L.E.D.		LITHONIA	BLWP4-60L-PDSM-GZ1-LP840-N100	SURFACE	PER #2/E5.00
BE	49	L.E.D.		LITHONIA	BLWP4-60L-PDSM-GZ1-LP840-N100-E10WLCP	SURFACE	PER #2/E5.00 (1)
C	40	L.E.D.		LITHONIA	BLWP4-48L-PDSM-GZ1-LP840	SURFACE	PER #2/E5.00
CE	40	L.E.D.		LITHONIA	BLWP4-48L-PDSM-GZ1-LP840-E10WLCP	SURFACE	PER #2/E5.00 (1)
D	123	L.E.D.		STARTEK	BEAMD-12-1000-350-WD-CL-40K-80-PW-ACWD-U-DCI-DM10%	AIRCRAFT CABLE	. (4)
DE	123	L.E.D.		STARTEK	BEAMD-12-1000-350-WD-CL-40K-80-PW-ACWD-U-DCI-DM10%-SBHBIO	AIRCRAFT CABLE	. (3), (4)
E	82	L.E.D.		STARTEK	BEAMD-8-1000-350-WD-CL-40K-80-PW-ACWD-U-DCI-DM10%	AIRCRAFT CABLE	. (4)
EE	82	L.E.D.		STARTEK	BEAMD-8-1000-350-WD-CL-40K-80-PW-ACWD-U-DCI-DM10%-SBHBIO	AIRCRAFT CABLE	. (2), (4)
F	25	L.E.D.		GOTHAM	EVO6-40/25-AR-WD-LSS-MVOLT-EZ10	RECESS	PER #3/E5.00
FE	25	L.E.D.		GOTHAM	EVO6-40/25-AR-WD-LSS-MVOLT-EZ10-E10WCP	RECESS	PER #3/E5.00 (1)
G	20	L.E.D.		GOTHAM	EVO6-40/20-AR-WD-LSS-MVOLT-EZ10	RECESS	PER #3/E5.00
GE	20	L.E.D.		GOTHAM	EVO6-40/20-AR-WD-LSS-MVOLT-EZ10-E10WCP	RECESS	PER #3/E5.00 (1)
H	23	L.E.D.		LITHONIA	WDGE2-LED-P35W-40K-80CRI-VF-MVOLT-SRM-PIR-DDBXD	WALL @ 8' A.F.F., U.O.N.	
J	23	L.E.D.		LITHONIA	WDGE2-LED-P35W-40K-80CRI-VW-MVOLT-SRM-PIR-DDBXD	WALL @ 8' A.F.F., U.O.N.	
K	27	L.E.D.		LIGMAN	ULW-10874 27W-W40-01-120/277v	GROUND	PER #13/E5.00
L	—	——	↓	LIGMAN	ULW-10874 - NONLIT-01	GROUND	PER #13/E5.00
M	10	L.E.D.	120V	LITHONIA	FMML-7-840	SURFACE	
P	69	L.E.D.	.	LITHONIA	DSXO-LED-P3-40K-80CRI-TFTM	POLE	PER #5/E5.00
X	2	L.E.D.	120-277V	LITHONIA	LE-S-W-1-R-EL-N-SD	SURFACE	SINGLE FACE EXIT SIGN WITH EMERGENCY BATTERY AND SELF-DIAGNOSTICS

FIXTURE SCHEDULE NOTES:

(1) LIGHT FIXTURE SHALL BE EQUIPPED WITH AN EMERGENCY BATTERY PACK TO OPERATE THE L.E.D. DRIVER AT 10 WATTS OF CONSTANT POWER IN THE EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. PULL UNSWITCHED CIRCUIT TO EMERGENCY BATTERY PACK. REFER TO LIGHTING PLANS FOR EXACT LOCATIONS AND DETAIL PER #4/E5.00 FOR WIRING REQUIREMENTS.

(2) LIGHT FIXTURE SHALL BE EQUIPPED WITH TWO (2) EMERGENCY BATTERY PACKS TO OPERATE THE L.E.D. DRIVER AT 10 WATTS OF CONSTANT POWER IN THE EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. PULL UNSWITCHED CIRCUIT TO EMERGENCY BATTERY PACK. REFER TO LIGHTING PLANS FOR EXACT LOCATIONS AND DETAIL PER #4/E5.00 FOR WIRING REQUIREMENTS.

(3) LIGHT FIXTURE SHALL BE EQUIPPED WITH THREE (3) EMERGENCY BATTERY PACKS TO OPERATE THE L.E.D. DRIVER AT 10 WATTS OF CONSTANT POWER IN THE EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. PULL UNSWITCHED CIRCUIT TO EMERGENCY BATTERY PACK. REFER TO LIGHTING PLANS FOR EXACT LOCATIONS AND DETAIL PER #4/E5.00 FOR WIRING REQUIREMENTS.

(4) LIGHT FIXTURE SHALL BE EQUIPPED WITH AN INTEGRAL DAYLIGHT/MOTION SENSOR.

ELECTRICAL SYMBOLS

ALL DIMENSIONS TO CENTER OF BOX, U.O.N.

3-	CIRCUIT NUMBER (3-A-38)
-A-	FIXTURE TYPE (3-A-38)
-38	FIXTURE WATTAGE (3-A-38)
	HOME RUN 3/4"C - MIN. (PANEL A, CIRCUIT #3)
	CONDUIT RUN IN WALL OR ATTIC (1/2"C - 2 #12 AWG THWN + 1 #12 GND)
	CONDUIT RUN IN FLOOR OR UG (1/2"C - 2 #12 AWG THWN + 1 #12 GND)
	ANY CONDUIT RUN - 1/2"C - 3 #12 AWG THWN + 1 #12 GND
	" " - 3/4"C - 4 #12 AWG THWN + 1 #12 GND
	" " - 3/4"C - 5 #12 AWG THWN + 1 #12 GND
	" " - 1"C - 6 #12 AWG THWN + 1 #12 GND
	CONDUIT STUB - CAPPED AND LABELED.
1	ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET.
U.O.N.	UNLESS OTHERWISE NOTED
W.P.	WEATHERPROOF
	TERMINAL CABINET (SIZE AS SHOWN)
	ELECTRICAL PANELBOARD
	DUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
	DUPLEX RECEPTACLE IN FLUSH FLOOR BOX
	QUADRUPLEX RECEPTACLE IN FLUSH FLOOR BOX
	QUADRUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
(B)	G.F.C.I. DUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
(C)	'CONTROLLED' DUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
	EXIT LIGHT, WALL MOUNTED
	EXIT LIGHT, CEILING MOUNTED
	WALL MOUNTED LIGHT FIXTURE (MOUNT AS SHOWN)
	RECESSED MOUNTED LIGHT FIXTURE IN CEILING
	LIGHT FIXTURE
(D)	--C5-- NETWORK CABLE - CATEGORY 5e CABLE, LENGTH AS REQUIRED
(E)	--DC-- 0-10V DIMMING CONTROL CABLE, LENGTH AS REQUIRED
(F)	LIGHT FIXTURE WITH 'xLIGHT' EMBEDDED CONTROLS
	EM RECESSED MOUNTED LIGHT FIXTURE EQUIPPED WITH EMERGENCY BATTERY PACK
	EM LIGHT FIXTURE EQUIPPED WITH EMERGENCY BATTERY PACK
	POLE MOUNTED 'AREA' LIGHT FIXTURE
	LIGHT SWITCH (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(G)	OCCUPANCY SENSOR WALL SWITCH, LINE VOLTAGE (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(H)	OD OCCUPANCY SENSOR WALL SWITCH (DUAL TECHNOLOGY) WITH ON/OFF SWITCH AND RAISE/LOWER DIMMING CONTROL, (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(J)	D ON/OFF SWITCH WITH RAISE/LOWER DIMMING CONTROL (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(K)	D2 ON/OFF SWITCH WITH RAISE/LOWER DIMMING CONTROL (TWO CHANNELS) (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(L)	D4 ON/OFF SWITCH WITH RAISE/LOWER DIMMING CONTROL (FOUR CHANNELS) (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(M)	WV LOW VOLTAGE POWER/RELAY PACK WITH 0-10VDC DIMMING OUTPUT FOR LIGHTING CONTROLS MOUNTED IN ACCESSIBLE ATTIC SPACE, U.O.N.
(T)	WV LOW VOLTAGE POWER/RELAY PACK FOR RECEPTACLE CONTROLS MOUNTED IN ACCESSIBLE ATTIC SPACE, U.O.N.
(N)	OS 360° OCCUPANCY SENSOR (DUAL TECHNOLOGY), CEILING MOUNTED
(P)	OSP 360° OCCUPANCY SENSOR (DUAL TECHNOLOGY) WITH AUTOMATIC DIMMING CONTROL PHOTOCELL, CEILING MOUNTED
(Q)	S ON/OFF SWITCH (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(R)	SK ON/OFF DIGITAL KEYSWITCH WITH RAISE/LOWER DIMMING CONTROL (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(S)	DS ON/OFF SWITCH WITH RAISE/LOWER DIMMING CONTROL AND TWO SCENE CONTROL BUTTONS (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
	J JUNCTION BOX EQUIPPED WITH BLANK COVER
	J JUNCTION BOX EQUIPPED WITH BLANK COVER AND FLEX CONNECTION
	MOTOR
	HEAVY-DUTY FUSED SAFETY SWITCH
	SD ADDRESSABLE SMOKE DETECTOR MOUNTED ON CEILING
	F ADDRESSABLE MANUAL PULL STATION
(A)	AV 15 FIRE ALARM HORN/15 CANDELA VISUAL STROBE (WALL MOUNTED)
(A)	AV 30 FIRE ALARM HORN/30 CANDELA VISUAL STROBE (WALL MOUNTED)
(A)	V 15 FIRE ALARM VISUAL STROBE, 15 CANDELA, CEILING MOUNTED
(A)	AV 15 FIRE ALARM HORN/15 CANDELA VISUAL STROBE (CEILING MOUNTED)
(A)	AV 30 FIRE ALARM HORN/30 CANDELA VISUAL STROBE (CEILING MOUNTED)
	H W.P. FIRE ALARM EXTERIOR HORN IN WALL

ELECTRICAL SYMBOLS NOTES:

(A) REFER TO FIRE ALARM DEVICES ELEVATION, DETAIL #4/E3.00 FOR RESPECTIVE MOUNTING HEIGHTS.

(B) AT EXTERIOR LOCATIONS, PROVIDE WEATHER-RESISTANT TYPE G.F.C.I. DUPLEX RECEPTACLES, LEVITON #55362-WTW OR EQUAL. AT DAMP LOCATIONS, PROVIDE A DIECAST WEATHERPROOF LOCKABLE COVER, RACO #5028-0 OR EQUAL. AT WET LOCATIONS, PROVIDE A DIECAST WEATHERPROOF 'WHILE-IN-USE' LOCKABLE COVER, RED DOT #CKSUV OR EQUAL.

(C) DUPLEX RECEPTACLE SHALL HAVE PRINTED WORDING 'CONTROLLED' AND THE SPECIFIC SYMBOL ⏻ ON THE FACE OF THE RECEPTACLE. LEVITON #5362-2PW OR EQUAL.

(D) ACUITY CONTROLS #CAT 5e *J1 OR EQUAL. * ASTERISK INDICATES LENGTH OF CABLE. CABLES ARE AVAILABLE IN 6", 1, 2, 5, 10', 15', 30', AND 50' LENGTHS.

(E) LIBERTY WIRE CABLE, INC #18-2C-LVB OR EQUAL.

(F) 'xLIGHT' ENABLED LIGHT FIXTURE PER FIXTURE SCHEDULE ON THIS SHEET.

(G) ACUITY CONTROLS #WSD-PDT-WH OR EQUAL.

(H) ACUITY CONTROLS #WSX-PDT-LV-DX-WH OR EQUAL.

(J) ACUITY CONTROLS #PODMA-DX-WH OR EQUAL.

(K) ACUITY CONTROLS #PODMA-2P-DX-WH OR EQUAL.

(L) ACUITY CONTROLS #PODMA-4P-DX-WH OR EQUAL. PROVIDE A DECORATOR STYLE STAINLESS STEEL WALLPLATE.

(M) ACUITY CONTROLS #PP16-D-EFP OR EQUAL.

(N) ACUITY CONTROLS #CM-PDT-10-RJB OR EQUAL.

(P) ACUITY CONTROLS #CM-PDT-10-ADCX-RJB OR EQUAL.

(Q) ACUITY CONTROLS #PODMA-WH OR EQUAL. PROVIDE A DECORATOR STYLE STAINLESS STEEL WALLPLATE.

(R) ACUITY CONTROLS #POD-KEY-WH.

(S) ACUITY CONTROLS #PODMA-2S-DX-WH OR EQUAL. PROVIDE A DECORATOR STYLE STAINLESS STEEL WALLPLATE.

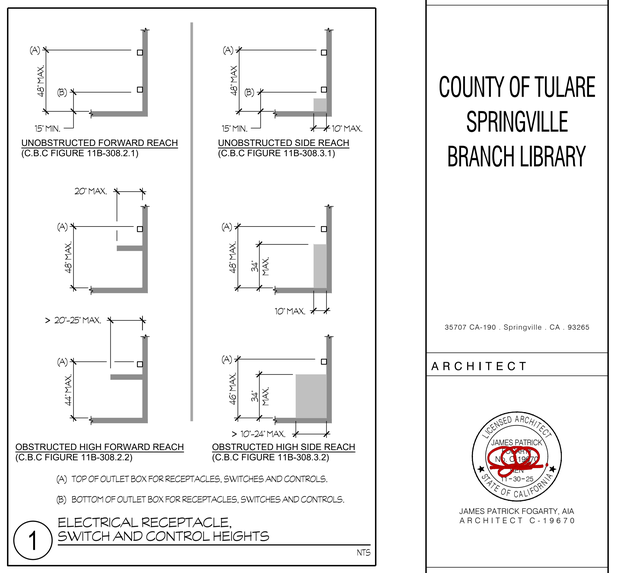
(T) ACUITY CONTROLS #PP20-PL OR EQUAL. CONNECT TO THE SAME 120V 'UNSWITCHED' RECEPTACLE CIRCUIT, AS THE POWER/RELAY PACK CONTROLS.

TITLE 24, PART 6

THE CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS HAS BEEN REVIEWED AND THE BUILDING DESIGN DESCRIBED ON THESE PAGES IS IN SUBSTANTIAL CONFORMANCE.

CODE, RULES AND REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.



(A) TOP OF OUTLET BOX FOR RECEPTACLES, SWITCHES AND CONTROLS.

(B) BOTTOM OF OUTLET BOX FOR RECEPTACLES, SWITCHES AND CONTROLS.

1 ELECTRICAL RECEPTACLE, SWITCH AND CONTROL HEIGHTS

NTS

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER STEVEN KIRK EASTHAM No. E-18786 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA, 93301
www.aparchitects.net

COUNTY OF TULARE SPRINGVILLE BRANCH LIBRARY

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY No. C-19670 EXP. 11-30-23 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

REVISIONS

No	Date	Item

ELECTRICAL SYMBOLS, CODES, NOTES AND FIXTURE SCHEDULE

EG1.00

2:\Drafting\Jobs\RDC\Tulare County\New Public Library - Springville\EG1.00.dwg DATE SAVED: 09/12/23 BY: Nicole DATE PLOTTED: 09/29/23 JOB # 21-RDC-05

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	COUNTY OF TULARE SPRINGVILLE LIBRARY	Report Page:	(Page 1 of 7)
Project Address:	35701 CA 190 SPRINGVILLE CA 93265	Date Prepared:	2023-03-27T09:10:24-04:00

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	SPRINGVILLE	04	Total Conditioned Floor Area (ft²)	3,372
02	Climate Zone	16	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Library

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	3372	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	3372			

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05		06	07	08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	= **Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)		
Conditioned	2,360.4				=	2,360.4	≥	1,790		= 1790	COMPLIES
Unconditioned					=		≥			=	
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail
A/AE	L.E.D. TROFFER	No	NA	38	Mfr. Spec	15	No	570	☐	☐
B/BE	L.E.D. SURFACE WRAPAROUND	No	NA	49	Mfr. Spec	1	No	49	☐	☐
C/CE	L.E.D. SURFACE WRAPAROUND	No	NA	40	Mfr. Spec	2	No	80	☐	☐
D/DE	BEAM DIRECT/INDIRECT	No	NA	82	Mfr. Spec	5	No	410	☐	☐
E/EE	BEAM DIRECT/INDIRECT	No	NA	123	Mfr. Spec	2	No	246	☐	☐
F/FE	L.E.D. DOWNLIGHT	No	NA	25	Mfr. Spec	3	No	75	☐	☐
G/GE	L.E.D. DOWNLIGHT	No	NA	20	Mfr. Spec	18	No	360	☐	☐
					Total Designed Watts: CONDITIONED SPACES			1,790		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Pass	Fail
LIBRARY	Library	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

13
Plan Sheet Showing Daylit Zones:
E2.10

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
LIBRARY	Library	0.7	3,372	2,360.4	No	No

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

TOTALS:	3,372	2,360.4	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	LIBRARY
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	LIBRARY

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Donnie Sing	Documentation Author Signature: Donald L. Sing
Company: Rose Sing Eastham & Associates	Signature Date: 2023-03-27
Address: 131 SOUTH DUNWORTH STREET	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: VISALIA, CA 93292-6705	Phone: (559) 733-2671 EXT. 102

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name: Steven Eastham	Responsible Designer Signature:
Company: Rose Sing Eastham & Associates	Date Signed: 2023-03-27
Address: 131 SOUTH DUNWORTH STREET	License: E-18786
City/State/Zip: VISALIA, CA 93292-6705	Phone: (559)733-2671 EXT. 101

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth ~ (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER STEVEN KYLE EASTHAM No. E-18786 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA, 93301
www.aparchitects.net

COUNTY OF TULARE SPRINGVILLE BRANCH LIBRARY

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY No. C-19670 EXP. 11-30-21 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

REVISIONS

No	Date	Item

INDOOR LIGHTING COMPLIANCE

EG1.10

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bwii

Project Name:	COUNTY OF TULARE SPRINGVILLE LIBRARY	**Report Page:**	**(Page 1 of 6)**
Project Address:	**35701 CA 190 SPRINGVILLE CA 93265**	**Date Prepared:**	2023-03-28T14:10:29-04:00

A. GENERAL INFORMATION

01	Project Location (city)	SPRINGVILLE	02	Climate Zone	16
			03	Occupancy Types Within Project:	Library

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
MAIN SWITCHBOARD "MSB"	New electrical service equipment and meter	144	☒	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[2] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
[3] *If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
[4] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 87888-0323-0005 Report Generated: 2023-03-28 11:10:31

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	COUNTY OF TULARE SPRINGVILLE LIBRARY	**Report Page:**	**(Page 2 of 6)**
		Date Prepared:	2023-03-28T14:10:29-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND	Yes	AND	Yes	AND	Yes		COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS

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

Table B indicates the project is exempt from 130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

E. ADDITIONAL REMARKS

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

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 87888-0323-0005 Report Generated: 2023-03-28 11:10:31

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	COUNTY OF TULARE SPRINGVILLE LIBRARY	**Report Page:**	**(Page 3 of 6)**
		Date Prepared:	2023-03-28T14:10:29-04:00

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
MAIN SWITCHBOARD "MSB"					
Lighting including exit, egress and exterior	All lighting in aggregate	Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring	KEYNOTE #A ON SHEET E4.00	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring	KEYNOTE #A ON SHEET E4.00	☐	☐
HVAC systems and components	All HVAC in aggregate	Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring	KEYNOTE #A ON SHEET E4.00	☐	☐

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 87888-0323-0005 Report Generated: 2023-03-28 11:10:31

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	COUNTY OF TULARE SPRINGVILLE LIBRARY	**Report Page:**	**(Page 4 of 6)**
		Date Prepared:	2023-03-28T14:10:29-04:00

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*
[2] *Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.*
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bviic.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
MAIN SWITCHBOARD "MSB"	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	DETAIL #1/E4.00	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d)/ 160.6(d).. Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 87888-0323-0005 Report Generated: 2023-03-28 11:10:31

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	COUNTY OF TULARE SPRINGVILLE LIBRARY	**Report Page:**	**(Page 5 of 6)**
		Date Prepared:	2023-03-28T14:10:29-04:00

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

01	02	03	04	05	06	07	
Room name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
OFFICE 110	Within 6ft of uncontrolled receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	POWER PLAN E2.20	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. .*

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 87888-0323-0005 Report Generated: 2023-03-28 11:10:31

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	COUNTY OF TULARE SPRINGVILLE LIBRARY	**Report Page:**	**(Page 6 of 6)**
Project Address:	**35701 CA 190 SPRINGVILLE CA 93265**	**Date Prepared:**	2023-03-28T14:10:29-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Donnie Sing	Documentation Author Signature: Donald L. Sing
Company: Rose Sing Eastham & Associates	Signature Date: 23-03-28
Address: 131 SOUTH DUNWORTH STREET	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: VISALIA, CA 93292-6705	Phone: (559) 733-2671 EXT. 102

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name: Steven Eastham	Responsible Designer Signature:
Company: Rose Sing Eastham & Associates	Date Signed: 23-03-28
Address: 131 SOUTH DUNWORTH STREET	License: E-18786
City/State/Zip: VISALIA, CA 93292-6705	Phone: (559) 733-2671 EXT. 101

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 87888-0323-0005 Report Generated: 2023-03-28 11:10:31

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

STEVEN KIRK EASTHAM — No. E-18786 Exp. 6/30/23 — ELECTRICAL — STATE OF CALIFORNIA

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA, 93301
www.aparchitects.net

COUNTY OF TULARE SPRINGVILLE BRANCH LIBRARY

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT — JAMES PATRICK FOGARTY — No. C-19670 — 30-25 — STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

REVISIONS

No	Date	Item

ELECTRICAL POWER DISTRIBUTION COMPLIANCE

EG1.20

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-E

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: COUNTY OF TULARE SPRINGVILLE LIBRARY | **Report Page:** (Page 1 of 7)
Project Address: 35701 CA 190 SPRINGVILLE CA 93265 | **Date Prepared:** 2023-04-11T17:55:06-04:00

A. GENERAL INFORMATION

01	Project Location (city)	SPRINGVILLE	04	Total Illuminated Hardscape Area (ft²)	5734
02	Climate Zone	16			
03	Outdoor Lighting Zone per Title 24 Part 1	10,114 or as designated by Authority Having Jurisdiction (AHJ):			
☐ LZ-0: Very Low - Undeveloped Parkland		☐ LZ-2: Moderate - Urban Clusters		☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐ LZ-1: Low - Rural Areas		☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
● Library					

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6		
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes	○ No
03	04	05	
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method	
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%			

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv														Compliance Results	
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
486.35	+	---	+	---	+	---	+	---	OR	---	=	486.35	≥	407	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
H	WALL SCONCE	☐ Linear	23	Mfr. Spec	3	New	☐	69	NA: < 6200 lumens	☐	☐
J	WALL SCONCE	☐ Linear	23	Mfr. Spec	7	New	☐	161	NA: < 6200 lumens	☐	☐
K	SECURITY BOLLARD	☐ Linear	27	Mfr. Spec	4	New	☐	108	NA: < 6200 lumens	☐	☐
P	AREA POLE LIGHT	☐ Linear	69	Mfr. Spec	1	New	☐	69	NA: < 6200 lumens	☐	☐
							Total Design Watts:	407			

* *NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
PERMITER OF BUILDING: "H"	Astronomical Timer	Provided	Provided	☐	☐
PERMITER OF BUILDING: "J"	Astronomical Timer	Provided	Provided	☐	☐
PARKING LOT: "K"	Astronomical Timer	Provided	NA: Facade, etc. <=24 ft	☐	☐
PARKING LOT: "P"	Astronomical Timer	Provided	Provided	☐	☐

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
PERMITER OF BUILDING	1546	0.021	32.47	304	0.2	60.8	93.27
PARKING LOT	4318	0.021	90.68	262	0.2	52.4	143.08
Initial Wattage Allowance for Entire Site (Watts):							250
Instances of Initial Wattage Allowance (LZ 0 only)[1]							
Total General Hardscape Allowance (Watts):							486.35

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	PERMITER OF BUILDING: "H"; PERMITER OF BUILDING: "J"; PARKING LOT: "K"; PARKING LOT: "P"

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Donnie Sing	Documentation Author Signature: Donald L. Sing
Company: Rose Sing Eastham & Associates	Signature Date: 2023-04-11
Address: 131 SOUTH DUNWORTH STREET	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: VISALIA, CA 93292-6705	Phone: (559) 733-2671 EXT. 102

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name: Steven Eastham	Responsible Designer Signature:
Company: Rose Sing Eastham & Associates	Date Signed: 2023-04-11
Address: 131 SOUTH DUNWORTH STREET	License: E-18786
City/State/Zip: VISALIA, CA 93292-6705	Phone: (559) 733-2671 EXT. 101

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA, 93301
www.aparchitects.net

COUNTY OF TULARE SPRINGVILLE BRANCH LIBRARY

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY No. C-19670 Exp. 11-30-22 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

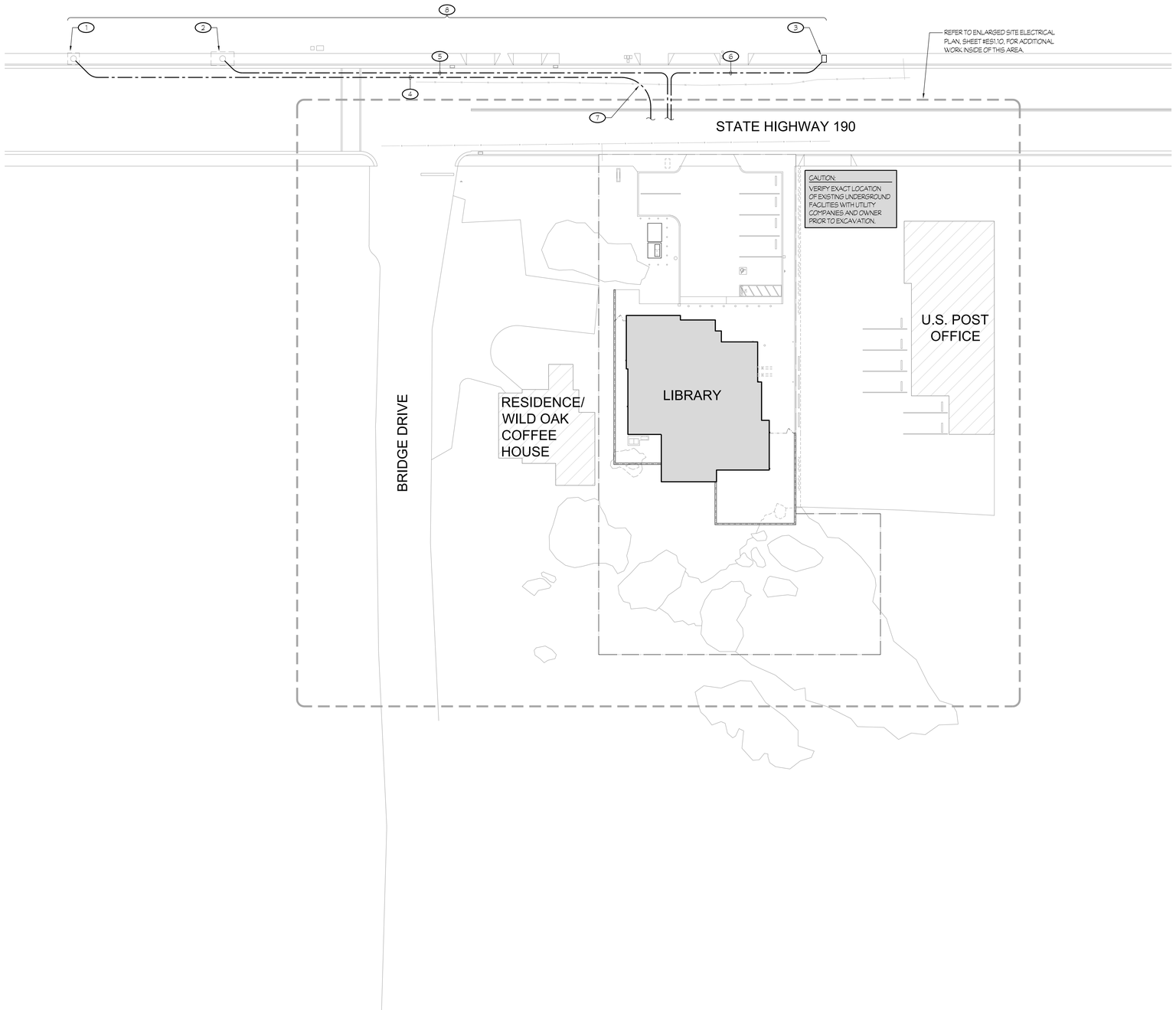
Project No	569-0003
Date	11.30.21

REVISIONS

No	Date	Item

OUTDOOR LIGHTING COMPLIANCE

EG1.30



SITE ELECTRICAL PLAN

Scale: 1" = 20'-0"

WORKING NORTH

NOTES (THIS SHEET ONLY):

1. APPROXIMATE LOCATION OF EXISTING S.C.E. MANHOLE BELOW SIDEWALK. COORDINATE THE EXACT LOCATION WITH S.C.E.. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT 'POINT-OF-CONNECTION' WITH S.C.E. PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL TRENCH TO THE EXISTING S.C.E. MANHOLE AND INSTALL THE 'PRIMARY' CONDUIT WITHIN 5' OF THE EXISTING S.C.E. MANHOLE. PROVIDE ADDITIONAL CONDUIT AND FITTINGS AS REQUIRED FOR TERMINATION INTO THE EXISTING S.C.E. MANHOLE BY S.C.E. OR THEIR 'COST-PLUS' CREW. THE ELECTRICAL CONTRACTOR SHALL BACKFILL AND COMPACT THE ENTIRE TRENCH PER S.C.E. AND CALTRANS STANDARDS.
2. APPROXIMATE LOCATION OF EXISTING ATT MANHOLE BELOW SIDEWALK. COORDINATE THE EXACT LOCATION WITH ATT.
3. APPROXIMATE LOCATION OF EXISTING CATV SERVICE BOX. COORDINATE THE EXACT LOCATION WITH CHARTER SPECTRUM.
4. ONE 5"C (S.C.E. 'PRIMARY') PER S.C.E. REQUIREMENTS.
5. ONE 4"C (ATT FACILITES) PER ATT REQUIREMENTS.
6. ONE 2"C (CHARTER SPECTRUM FACILITIES) PER CHARTER SPECTRUM FACILITIES REQUIREMENTS.
7. PROVIDE A 12'-6" RADIUS SWEEP BEND PER S.C.E. REQUIREMENTS.
8. SAWCUT AND PATCH EXISTING AC PAVING PER S.C.E. AND CALTRANS STANDARDS. BACKFILL AND COMPACT TRENCH PER S.C.E. AND CALTRANS STANDARDS.

UTILITY COMPANY REQUIREMENTS (1)

VERIFY AND COMPLY WITH ALL UTILITY COMPANY REQUIREMENTS AND OBTAIN ENGINEERED DOCUMENTS BEFORE CONSTRUCTION.

POWER CO.
S.C.E. DANIEL FILLA — OFFICE: (559) 685-3295 — EMAIL: Daniel.Filla@sce.com

PHONE CO. (2)
ATT JASON McCOY — OFFICE: (559) 304-7307 — EMAIL: jm2914@att.com

C.A.T.V. CO.
CHARTER SPECTRUM DAN NAUYOKS — OFFICE: (559) 920-9669 — EMAIL: Dan.nauyoks@charter.com

NOTE:

(1) VERIFY EXACT PUBLIC UTILITY EASEMENT AND/OR RIGHT OF WAY WITH RESPECTIVE UTILITY COMPANIES PRIOR TO PLACEMENT OF CONDUIT, SUB-STRUCTURES, ETC.

(2) A.T.T. HAS STANDARDIZED ON PVC CONDUIT AND FITTINGS MANUFACTURED BY CANTEX. THE CONDUIT WILL BE WHITE IN COLOR WITH A.T.T. BRANDING. THE AUTHORIZED DISTRIBUTOR/SUPPLIER IS SAF-T-CO (714) 547-9975 OR WWW.SAFTCO.COM.

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER — ROSE SING EASTHAM — No. E-18786 Exp. 6/30/23 — ELECTRICAL — STATE OF CALIFORNIA

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA, 93301
www.aparchitects.net

COUNTY OF TULARE SPRINGVILLE BRANCH LIBRARY

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT — JAMES PATRICK FOGARTY — No. C-19670 — REN 11-30-23 — STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

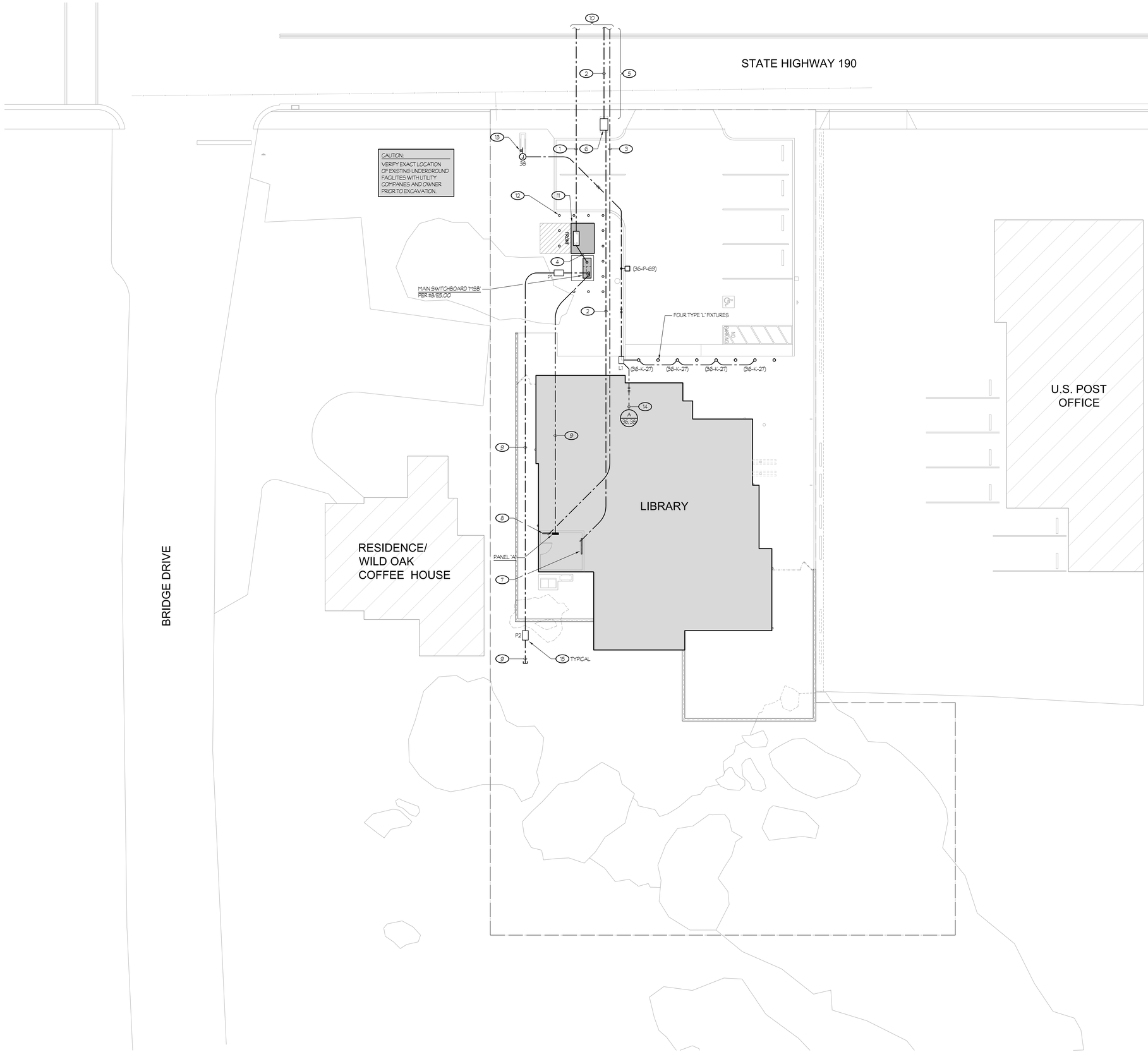
REVISIONS

No	Date	Item

SITE ELECTRICAL PLAN

ES1.00

Z:\Drafting\Jobs\900's\Kern County\New Public Library - Springville\ES1.00.dwg DATE SAVED: 02/27/24 BY: Krose DATE PLOTTED: 02/27/24 JOB # 22-087-05



NOTES (THIS SHEET ONLY):

1. ONE 5"C (S.C.E. "PRIMARY") PER S.C.E. REQUIREMENTS.
2. ONE 4"C (ATT FACILITES) PER ATT REQUIREMENTS.
3. ONE 2"C (CHARTER SPECTRUM FACILITIES) PER CHARTER SPECTRUM FACILITIES REQUIREMENTS. INCLUDING 24" MINIMUM DEPTH, MINIMUM 36" SWEEPS, MINIMUM 12" OFFSET FROM ATT/S.C.E. WITHIN ANY JOINT TRENCH. INSTALL MULE TAPE.
4. ONE 4"C (S.C.E. "SECONDARY") PER S.C.E. REQUIREMENTS.
5. SAWCUT AND PATCH EXISTING AC PAVING PER CALTRANS STANDARDS. BACKFILL AND COMPACT TRENCH PER CALTRANS STANDARDS.
6. PROVIDE 17" x 30" PULL BOX PER ATT REQUIREMENTS. COORDINATE EXACT LOCATION WITH ATT PRIOR TO ROUGH-IN.
7. PLYWOOD BACKBOARD FOR ATT FACILITIES.
8. PLYWOOD BACKBOARD FOR CHARTER SPECTRUM FACILITIES.
9. REFER TO ONE LINE DIAGRAM, DETAIL #1/E4.00, FOR ALL POWER FEEDER AND/OR "SPARE" CONDUIT REQUIREMENTS, TYPICAL.
10. REFER TO SITE ELECTRICAL PLAN, SHEET #ES1.00, FOR CONTINUATION.
11. PROVIDE A 72" x 84" CONCRETE TRANSFORMER PAD, GROUNDING AND BARRIER POSTS PER S.C.E. REQUIREMENTS.
12. PROVIDE GUARD POST PER DETAIL #14/E5.00. TYPICAL OF FOUR.
13. CONNECT THE CUSTOM BACKLIT METAL STANDOFF SIGN MOUNTED ON THE MONUMENT. VERIFY THE EXACT 'POINT-OF-CONNECTION(S)' WITH THE SIGN SUPPLIER PRIOR TO ROUGH-IN.
14. HOMERUN VIA RESPECTIVE RELAY IN LIGHTING CONTROL PANEL 'L.C.P.'.
15. REFER TO DETAIL #18/E5.00 FOR PULL BOX REQUIREMENTS. TYPICAL, U.O.N.. WHERE FEEDER OR BRANCH CIRCUIT CONDUCTORS ARE ROUTING THRU THE PULL BOX, PROVIDE GROUNDING AND BONDING OF THE STEEL CHECKER-PLATE COVER PER DETAIL #17/E5.00.

ENLARGED SITE ELECTRICAL PLAN

Scale: 1" = 10'-0"

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No. C-19670
REN 11-30-23
STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

REVISIONS

No	Date	Item

ENLARGED SITE ELECTRICAL PLAN

ES1.10

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Electrical Consultants
131 S. Dunworth – (559)733-2671
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REGISTERED PROFESSIONAL ENGINEER
KIRK A. ROSE
No. E-18786
Exp. 6/30/23
ELECTRICAL
STATE OF CALIFORNIA

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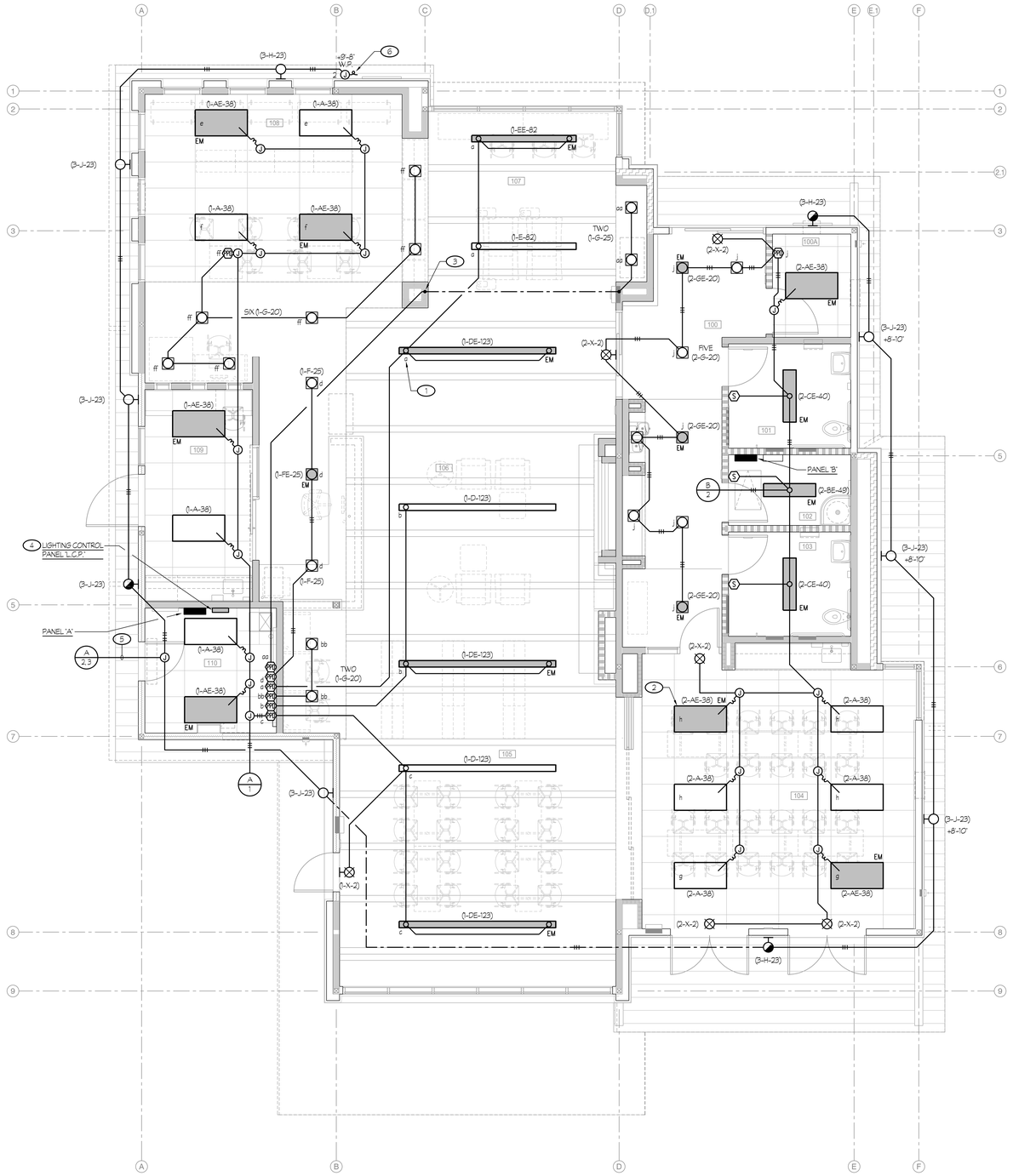
NOTES (THIS SHEET ONLY):

1. LOWER CASE LETTER DENOTES RESPECTIVE CONTROL ZONE, TYPICAL.
2. SYMBOLS EM AND EM DENOTE LIGHT FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY PACK. CONNECT PER DETAIL #4/E5.00.
3. DENOTES RUN CONDUIT DOWN INSIDE WALL.
4. LIGHTING CONTROL PANEL SHALL BE EQUIPPED WITH AN OUTDOOR PHOTOCELL AND EIGHT 20A 1-POLE FIELD CONFIGURABLE RELAYS. SURFACE MOUNT BOTTOM AT +42" A.F.F.. MOUNT PHOTOCELL ON ROOF AND RUN 1/2"C - 3 #16 BETWEEN PHOTOCELL AND LIGHTING CONTROL PANEL. LIGHTING CONTROL PANEL SHALL BE AN ACUITY CONTROLS #ARP-INTENCOB-NLT-8FCR-MVOLT-2VB-HLK-SM. PHOTOCELL SHALL BE AN ACUITY CONTROLS #ARPA-PC.
5. HOMERUN VIA RESPECTIVE RELAY IN LIGHTING CONTROL PANEL 'L.C.P.'.
6. CONNECT THE CUSTOM BACKLIT METAL STANDOFF SIGN MOUNTED ON THE BUILDING. VERIFY THE EXACT 'POINT-OF-CONNECTION(S)' WITH THE SIGN SUPPLIER PRIOR TO ROUGH-IN.



ROOM LEGEND

#	ROOM NAME
100	VESTIBULE
100A	BOOK DROP
101	RESTROOM
102	CUSTODIAL
103	RESTROOM
104	COMMUNITY ROOM
105	SOUTH LOUNGE
106	FIRESIDE LOUNGE
107	NORTH LOUNGE
108	CHILDRENS AREA
109	OFFICE
110	MECHANICAL/ELECTRICAL

LIGHTING PLAN

Scale: 1/4" = 1'-0"

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Electrical Consultants
131 S. Dunworth - (559)733-2671
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REGISTERED PROFESSIONAL ENGINEER KIRK A. EASTHAM No. E-18786 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

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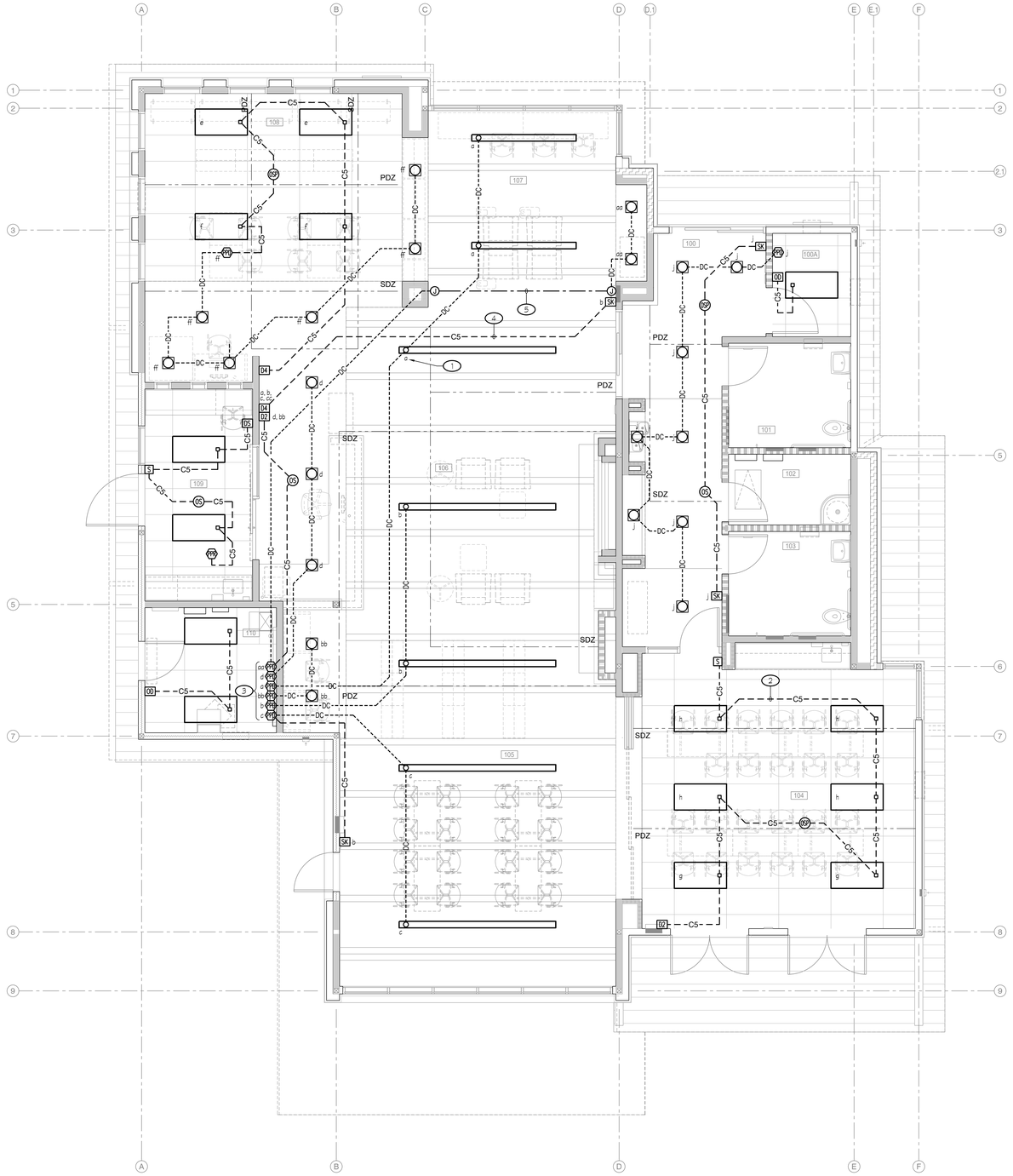
No	Date	Item

LIGHTING PLAN

E2.00



NOTES (THIS SHEET ONLY):

1. LOWER CASE LETTER DENOTES RESPECTIVE CONTROL ZONE, TYPICAL.
2. — —C5— — DENOTES CAT. 5e CABLE. ELECTRICAL CONTRACTOR MAY USE PRETERMINATED CAT. 5e CABLING OR PROVIDE CAT. 5e CABLING, MODULAR JACKS ON EACH END AND TERMINATE THE MODULAR JACKS USING THE TIA/EIA-568-B.2 PIN-PAIR SPECIFICATION. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND OUTLET BOXES IN WALLS FOR ROUTING OF CABLING. CABLE MAY BE ROUTED IN FREE-AIR, WHEN LOCATED IN ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILINGS. AT GYPBOARD CEILINGS, PROVIDE A DOUBLE-GANG LOW VOLTAGE MOUNTING PLATE BRACKET, CADDY #MPLS2 OR EQUAL, AT THE RJ-45 JACKS (EMBEDDED CONTROLS) OF THE SURFACE MOUNTED LIGHT FIXTURES FOR PASSAGE OF CAT. 5e CABLING.
3. TYPICAL WHERE LOW VOLTAGE POWER/RELAY PACKS ARE SHOWN ADJACENT TO ONE ANOTHER:
   RUN ONE CAT. 5e CABLE BETWEEN ADJACENT POWER/RELAY PACKS.
4. RUN A 1" CONDUIT BELOW CONCRETE SLAB AND CONTINUE UP INSIDE WALL TO OUTLET BOX
5. RUN A 1" CONDUIT BELOW CONCRETE SLAB AND CONTINUE UP INSIDE WALL.

DAYLIT ZONE LEGEND

PDZ - DENOTES 'PRIMARY' DAYLIT ZONE
PDZ

SDZ - DENOTES 'SECONDARY' DAYLIT ZONE
SDZ

ROOM LEGEND	
#	ROOM NAME
100	VESTIBULE
100A	BOOK DROP
101	RESTROOM
102	CUSTODIAL
103	RESTROOM
104	COMMUNITY ROOM
105	SOUTH LOUNGE
106	FIRESIDE LOUNGE
107	NORTH LOUNGE
108	CHILDRENS AREA
109	OFFICE
110	MECHANICAL/ELECTRICAL

LIGHTING CONTROLS PLAN

Scale: 1/4" = 1'-0"

WORKING NORTH

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REGISTERED PROFESSIONAL ENGINEER ROBERT KIRK EASTHAM No. E-18786 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

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ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

REVISIONS

No	Date	Item

LIGHTING CONTROLS PLAN

E2.10

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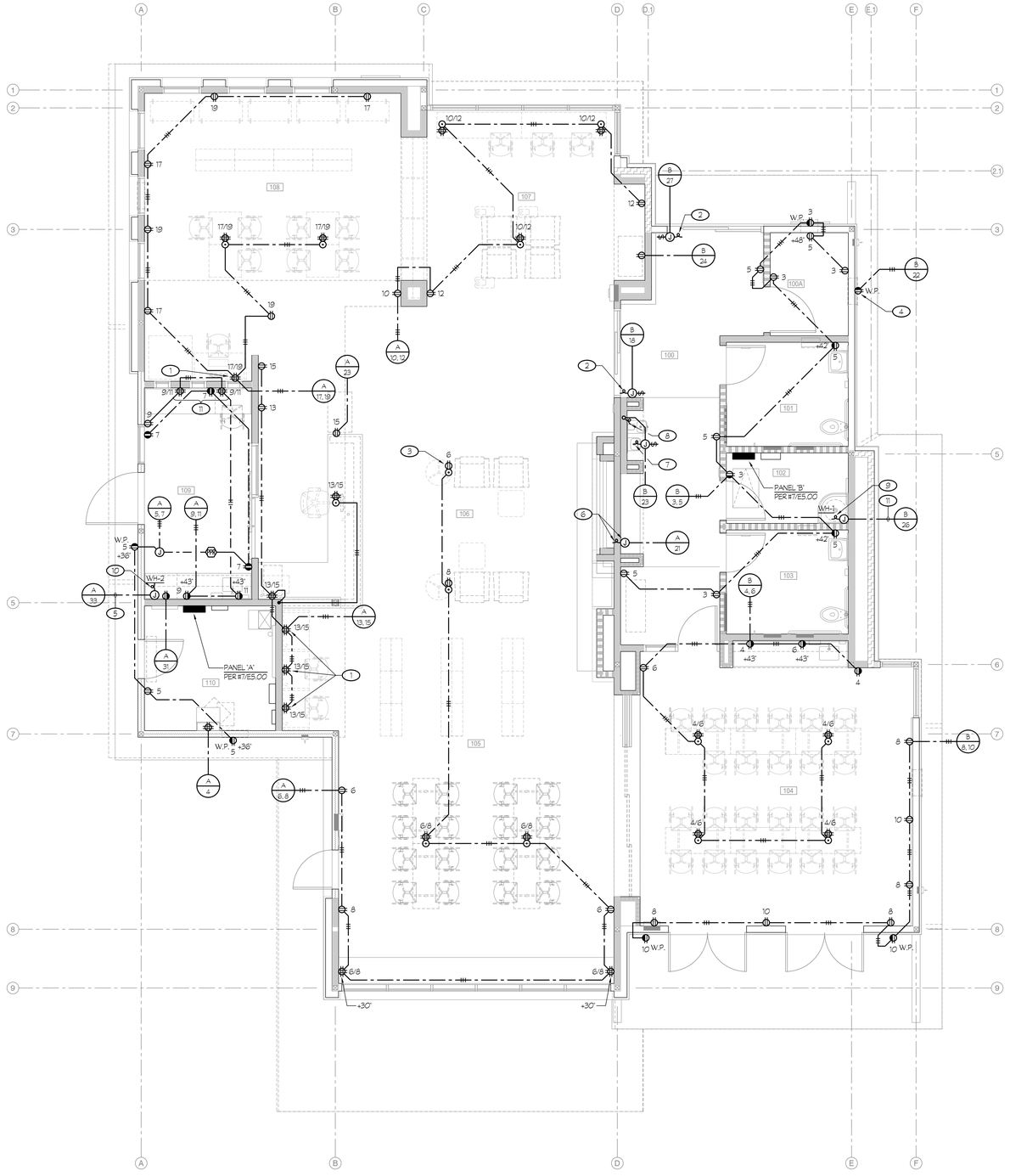

NOTES (THIS SHEET ONLY):

1. MOUNT IN KNEE SPACE BELOW COUNTERTOP.
2. CONNECT AUTOMATIC SLIDING DOOR. COORDINATE EXACT 'POINT-OF-CONNECTION' WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
3. TYPICAL OF ALL FLUSH FLOOR BOXES:
   REFER TO ARCHITECTURAL FLOOR PLAN, SHEET #A2.20 FOR EXACT LOCATIONS.
4. WEATHER-RESISTANT G.F.C.I. DUPLEX RECEPTACLE FOR THE BIBLIOTHECA REMOTE LOCKER OUTDOOR SYSTEM. FLUSH MOUNT IN WALL AT +86" A.F.F. TO CENTER. PROVIDE A DIECAST WEATHERPROOF COVER, EXTRA-DUTY RATED, RED-DOT #CKSUV OR EQUAL.
5. 3/4"C - 2 #10 + 1 #10 GND.
6. CONNECT BUILT-IN ELECTRIC FIREPLACE, 120V 1550W. COORDINATE THE EXACT 'POINT-OF-CONNECTION' WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. FLUSH MOUNT THE JUNCTION BOX IN THE WALL AT A READILY ACCESSIBLE LOCATION.
7. CONNECT THE REMOTE CHILLER, FOR DRINKING FOUNTAIN 'DF-1', LOCATED IN THE ATTIC SPACE.
8. CONNECT BOTTLE FILLER, 115V 15 WATTS, VIA INTEGRAL OUTLET BOX. COORDINATE EXACT 'POINT-OF-CONNECTION' PRIOR TO ROUGH-IN.
9. CONNECT ELECTRIC WATER HEATER, WH-1 120V, 3000 WATTS.
10. CONNECT ELECTRIC WATER HEATER, WH-2 208V 1ph, 4160 WATTS.
11. FLUSH MOUNT IN WALL AT +38" A.F.F. TO CENTER AND MOUNT DUPLEX RECEPTACLE HORIZONTALLY.

ROOM LEGEND	
#	ROOM NAME
100	VESTIBULE
100A	BOOK DROP
101	RESTROOM
102	CUSTODIAL
103	RESTROOM
104	COMMUNITY ROOM
105	SOUTH LOUNGE
106	FIRESIDE LOUNGE
107	NORTH LOUNGE
108	CHILDRENS AREA
109	OFFICE
110	MECHANICAL/ELECTRICAL

POWER PLAN

Scale: 1/4" = 1'-0"

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ARCHITECT C-19670

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Date	11.30.21

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POWER PLAN

E2.20

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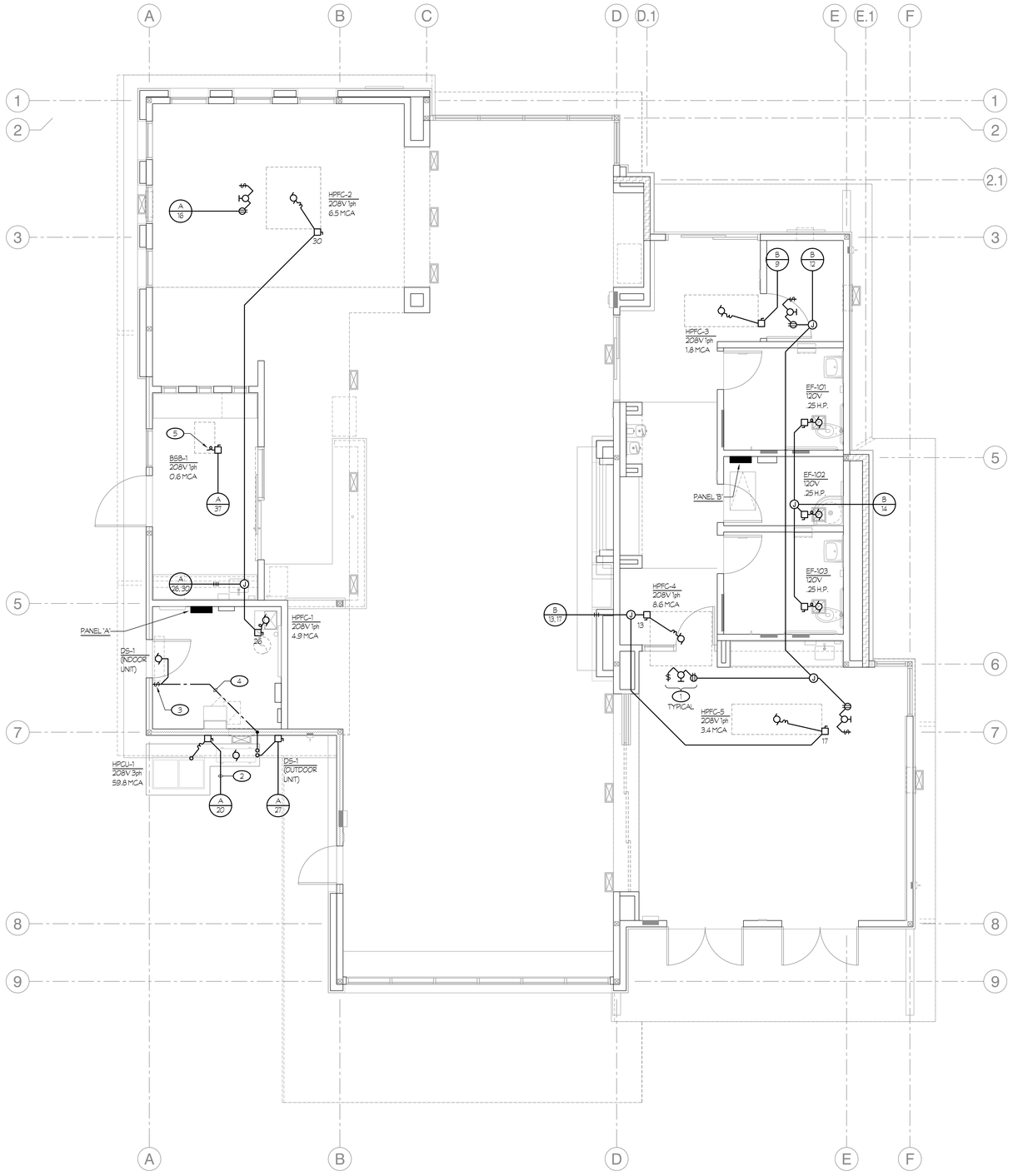
NOTES (THIS SHEET ONLY):

1. SURFACE MOUNT TYPE 'M' LIGHT FIXTURE AND DUPLEX RECEPTACLE IN ACCESSIBLE ATTIC SPACE NEAR INDOOR UNIT. COORDINATE EXACT LOCATION WITH INDOOR UNIT, MECHANICAL DUCTWORK, ROOF STRUCTURE, ETC.. FLUSH MOUNT TOGGLE SWITCH IN T-BAR CEILING BELOW AND LOCATE IN AN ADJACENT CEILING PANEL WHICH IS NOT USED FOR ACCESS TO NEAREST INDOOR UNIT(S).
2. 1C - 3 #6 + 1 #10 GND.
3. PROVIDE A 3-POLE, SINGLE-THROW MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD PROTECTION, (LEVITON #MS303) AS A DISCONNECTING MEANS.
4. 3/4"C - 4 #14.
5. CONNECT BRANCH SELECTOR BOX, 208 1ph 0.6 MCA.



H.V.A.C. ELECTRICAL PLAN

Scale: 1/4" = 1'-0"

WORKING NORTH

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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

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PROJECT INFO

Project No	569-0003
Date	11.30.21

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H.V.A.C. ELECTRICAL PLAN

E2.30

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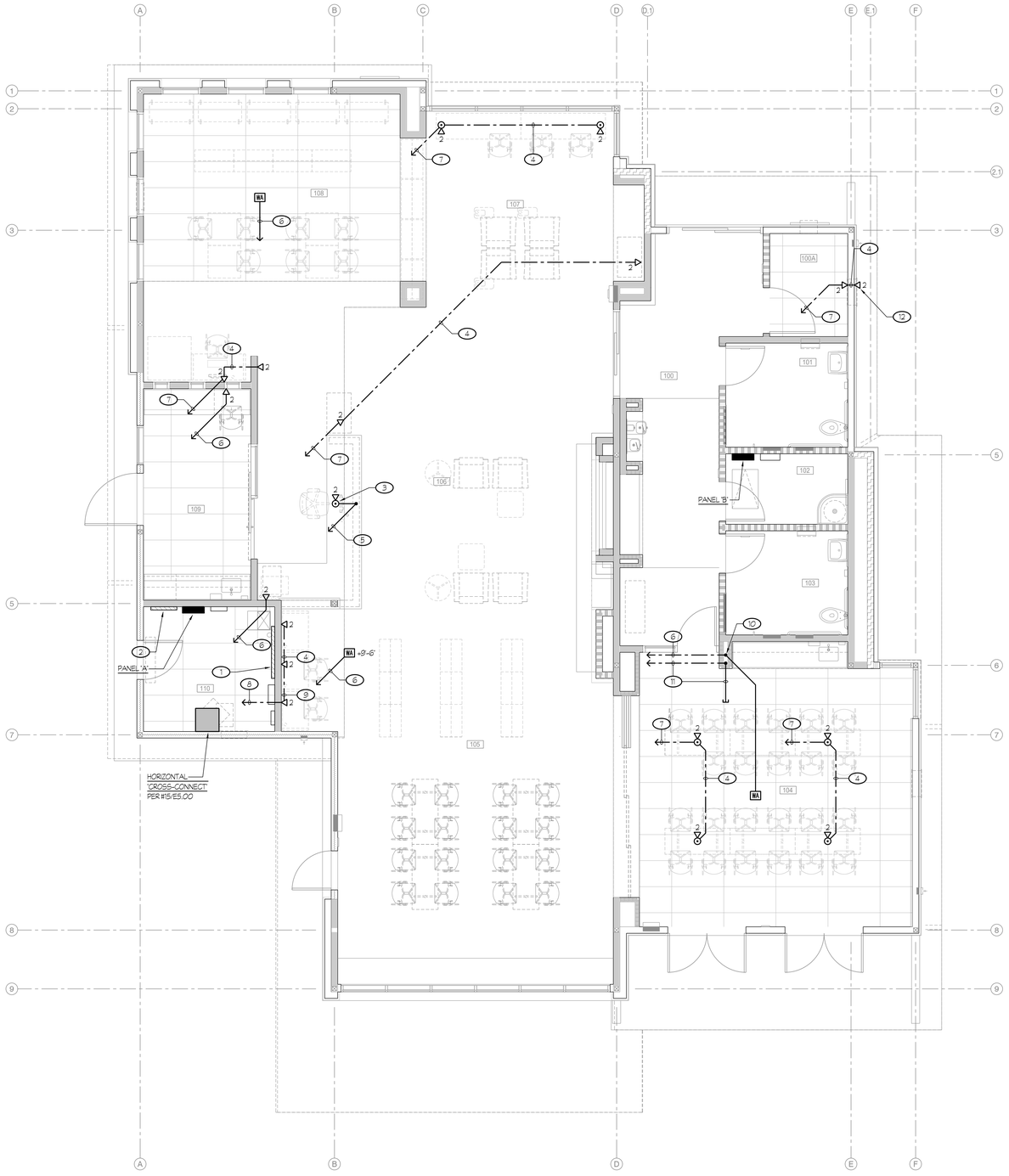

NOTES (THIS SHEET ONLY):

1. PROVIDE 4'W x 8'H x 3/4" THICK PLYWOOD BACKBOARD WITH 1 #6 CU TO UFER GROUND FOR ATT FACILITIES. LEAVE 6" PIGTAIL AT BACKBOARD. PAINT PLYWOOD WHITE WITH 2 COATS OF FIRE RETARDANT PAINT.
2. PROVIDE 2'W x 4'H x 3/4" THICK PLYWOOD BACKBOARD WITH 1 #6 CU TO UFER GROUND FOR 'FUTURE' CHARTER SPECTRUM FACILITIES. LEAVE 6" PIGTAIL AT BACKBOARD. PAINT PLYWOOD WHITE WITH 2 COATS OF FIRE RETARDANT PAINT.
3. REFER TO POWER PLAN, SHEET #E2.20, FOR LOCATION OF 'COMMON' FLUSH FLOOR BOX, TYPICAL.
4. 1'C - TWO CAT. 6 CABLES.
5. RUN 1 1/4"C - TWO CAT. 6 CABLES TO HORIZONTAL CROSS-CONNECT IN MECHANICAL/ ELECTRICAL #110.
6. RUN 1"C - TWO CAT. 6A CABLES TO HORIZONTAL CROSS-CONNECT IN MECHANICAL/ ELECTRICAL #110.
7. RUN 1 1/4"C - FOUR CAT. 6 CABLES TO HORIZONTAL CROSS-CONNECT IN MECHANICAL/ ELECTRICAL #110.
8. RUN 1 1/4"C - SIX CAT. 6 CABLES TO HORIZONTAL CROSS-CONNECT IN MECHANICAL/ ELECTRICAL #110.
9. 1 1/4"C - FOUR CAT. 6 CABLES.
10. ⟵ DENOTES RUN CONDUIT DOWN INSIDE WALL.
11. RUN 1 1/2"C (EQUIPPED WITH A NYLON PULL STRING) TO HORIZONTAL CROSS-CONNECT IN MECHANICAL/ELECTRICAL #110. STUB INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING AND PROVIDE AN INSULATING BUSHING. BRIDGEPORT #TWB-55 OR EQUAL.
12. DATA OUTLET FOR THE BIBLIOTHECA REMOTE LOCKER OUTDOOR SYSTEM. FLUSH MOUNT IN WALL AT +96" A.F.F. TO CENTER. PROVIDE A DIECAST WEATHERPROOF 'WHILE-IN-USE' LOCKABLE COVER, EXTRA-DUTY RATED, RED-DOT #CKSUV OR EQUAL.

DATA EQUIPMENT SPECIFICATIONS

SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	NOTES
N/A	CAT. 6 CABLE	LEVITON	LANMARK - 1000 CAT 6 10123712 - CAT 6A - BLUE	(3)
		LEVITON	LANMARK - 1000 CAT 6 10123712 - CAT 6A - BLUE	
▷	DATA JACK	LEVITON CAT 6A	61108-RL6 BLUE	
		LEVITON CAT 6A	61108-RO6 ORANGE	
		QUICKPORT DECORA INSERT	41642-W	
		DECORA WALLPLATE	80301-SW	
HC	HORIZONTAL CROSS-CONNECT 'HC'	MIDDLE ATLANTIC	EWR-8-22SD	
		MIDDLE ATLANTIC	UPS-610DOR	(4)
		LEVITON PATCH PANEL	49255-L48	
N/A	PATCH CORD (AT DESK)	LEVITON	6H460-7L BLUE 7	(2)
N/A	PATCH CORD (AT I.D.F.)	LEVITON	HGAID-IL - BLUE 1	(1)

SIGNALS SYSTEM EQUIPMENT AND CABLE LEGEND NOTES:

(1) PROVIDE A PATCH CORD TO ACTIVATE EACH DATA JACK TO THE NETWORK ELECTRONICS.

(2) PROVIDE A PATCH CORD FOR EACH 'WORK STATION' DATA JACK.

(3) COPPER CABLING AND MODULAR DATA JACKS SHALL BE TESTED IN ACCORDANCE WITH TIA/EIA 568B-2.1. FIBER OPTIC CABLING SHALL BE TESTED IN ACCORDANCE WITH TIA/EIA 455A AND TIA/EIA 568-B.3. SUBMIT ALL TEST REPORTS TO OWNER.

(4) REFER TO DETAIL #15/E5.00 FOR ADDITIONAL INFORMATION.

ROOM LEGEND

#	ROOM NAME
100	VESTIBULE
100A	BOOK DROP
101	RESTROOM
102	CUSTODIAL
103	RESTROOM
104	COMMUNITY ROOM
105	SOUTH LOUNGE
106	FIRESIDE LOUNGE
107	NORTH LOUNGE
108	CHILDRENS AREA
109	OFFICE
110	MECHANICAL/ELECTRICAL

SIGNALS PLAN

Scale: 1/4" = 1'-0"

WORKING NORTH

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Electrical Consultants
131 S. Dunworth – (559)733-2671
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JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

REVISIONS

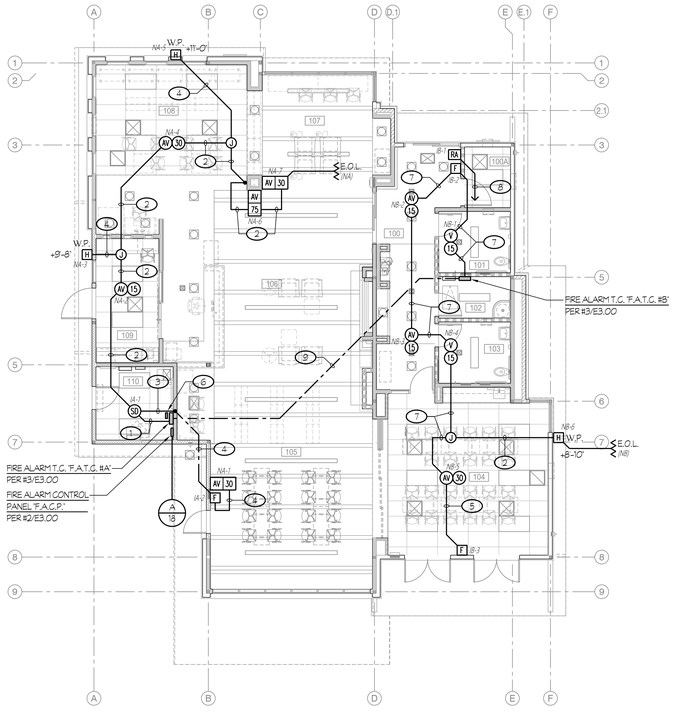
No	Date	Item

SIGNALS PLAN

E2.40

NOTES (THIS SHEET ONLY):

1. 3/4"C - TWO 'FA' CABLES, 2 #12.
2. 1/2"C - 2 #12.
3. 3/4"C - TWO 'FA' CABLES, 4 #12.
4. 1/2"C - 4 #12.
5. 3/4"C - TWO 'FA' CABLES.
6. UNIVERSAL FIRE ALARM COMMUNICATOR PANEL MOUNTED ABOVE THE FIRE ALARM T.C. 'F.A.T.C. #A'.
7. 3/4"C - TWO 'FA' CABLES, 2 #12.
8. RUN 3/4"C - ONE 'SFA' CABLE, ONE 'RAP' CABLE TO FIRE ALARM T.C. 'F.A.T.C. #B'.
9. REFER TO THE FIRE ALARM SYSTEM RISER DIAGRAM, DETAIL #1/E3.00 FOR CONDUIT, CABLING AND CONDUCTOR REQUIREMENTS.



FIRE ALARM PLAN

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

WORKING NORTH

ROOM LEGEND	
#	ROOM NAME
100	VESTIBULE
100A	BOOK DROP
101	RESTROOM
102	CUSTODIAL
103	RESTROOM
104	COMMUNITY ROOM
105	SOUTH LOUNGE
106	FIRESIDE LOUNGE
107	NORTH LOUNGE
108	CHILDRENS AREA
109	OFFICE
110	MECHANICAL/ELECTRICAL

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Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER
ROBERT K. TING
No. E-18786
Exp. 6/30/23
ELECTRICAL
STATE OF CALIFORNIA

3434 Truxtun Avenue, #240
Bakersfield, CA, 93301
www.aparchitects.net

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JAMES PATRICK
FOGARTY
C-19670
EXP. 08-31-23
STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

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Date	11.30.21

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FIRE ALARM PLAN

E2.50

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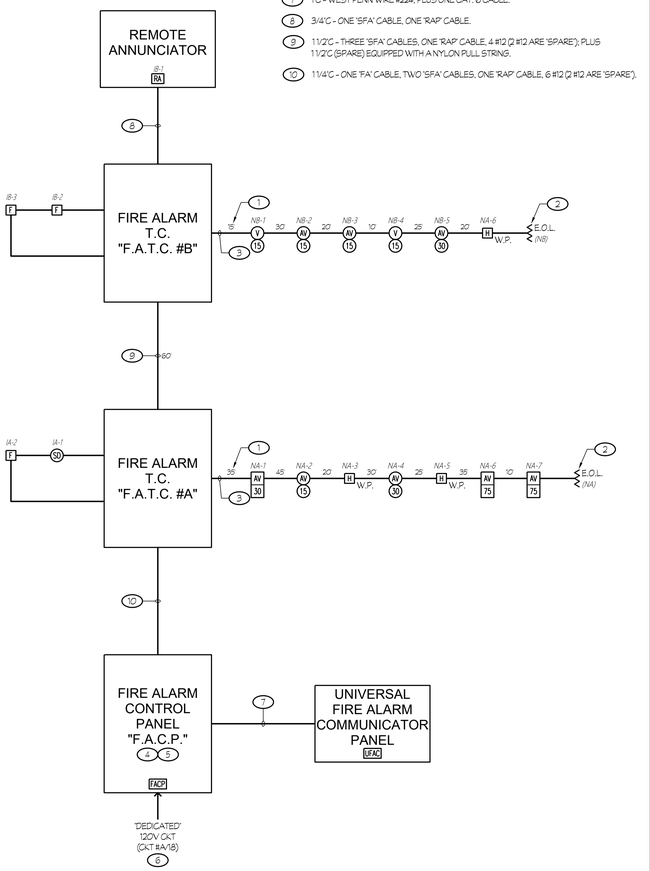
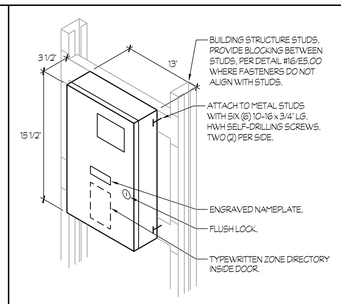
NOTES (THIS DETAIL ONLY):

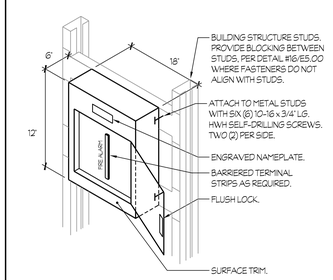
1. LENGTHS INDICATED WERE USED FOR CALCULATIONS/DESIGN PURPOSES ONLY AND BASED UPON THE 'DIAGRAMMATIC' LAYOUT SHOWN ON THE DRAWINGS. LENGTHS SHALL NOT BE USED FOR BIDDING.
2. DENOTES END OF LINE RESISTOR ON NOTIFICATION APPLIANCE CIRCUIT. RESISTORS SUPPLIED WITH CONTROL/EXPANDER PANELS AS REQUIRED. LOCATE RESISTORS AT END OF LINE APPLIANCES (CLASS 'B' WIRING). TYPICAL.
3. REFER TO RESPECTIVE FIRE ALARM PLANS, ON SHEETS #E2.50, FOR CONDUIT AND CABLING/CONDUCTOR REQUIREMENTS, TYPICAL.
4. PROVIDE A COPY OF THE BATTERY CALCULATION FOR THE 'RESPECTIVE' FIRE ALARM CONTROL PANEL 'F.A.C.P. #CR' AND FIRE ALARM POWER EXPANDER PANEL 'P.E.P. #K', THE BATTERY CALCULATION SHALL CONTAIN INFORMATION (AS NOTED ON THESE PLANS) AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF PANEL DOOR.
5. PROVIDE 'END-OF-LINE' RESISTORS AT ANY UNUSED OUTPUTS.
6. CIRCUIT BREAKER SHALL BE EQUIPPED WITH A LOCK-ON DEVICE, 'RED IN COLOR', SPACEAGE #ELOCK-FA OR EQUAL. PROVIDE AN ENGRAVED NAMEPLATE: 'FIRE ALARM - LEAVE ON', WHITE LETTERS ON A RED BACKGROUND.
7. 1"C - WEST PENN WIRE #224, PLUS ONE CAT. 6 CABLE.
8. 3/4"C - ONE 'SFA' CABLE, ONE 'RAP' CABLE.
9. 1 1/2"C - THREE 'SFA' CABLES, ONE 'RAP' CABLE, 4 #12 (2 #12 ARE 'SPARE'); PLUS 1 1/2"C (SPARE) EQUIPPED WITH A NYLON PULL STRING.
10. 1 1/4"C - ONE 'FA' CABLE, TWO 'SFA' CABLES, ONE 'RAP' CABLE, 6 #12 (2 #12 ARE 'SPARE').



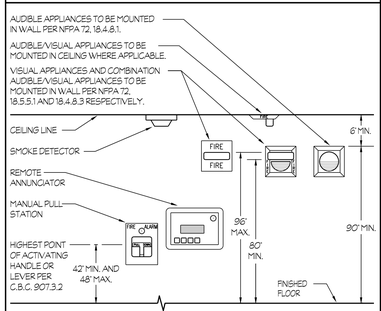
1 FIRE ALARM SYSTEM RISER DIAGRAM — NTS



2 FIRE ALARM CONTROL PANEL "F.A.C.P." MTG — NTS



3 FIRE ALARM T.C. "F.A.T.C. #A" MOUNTING — NTS
(SIMILAR MOUNTING FOR FIRE ALARM T.C. "F.A.T.C. #B")



4 FIRE ALARM DEVICES ELEVATION — NTS

FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS

SYMBOL	DESCRIPTION	MODEL #	CSFM LISTING #	BACKBOX REQUIREMENTS (B)	MOUNTING HEIGHT (TO CENTER U.O.N.)
FACP	FIRE ALARM CONTROL PANEL 'F.A.C.P.'	GAMEWELL/F.C.I. #SWF-7075	7165-1703:0500	INCLUDED	+60" PER DETAIL #2/E3.00
UFAC	UNIVERSAL FIRE ALARM COMMUNICATOR PANEL	DIGITAL MONITORING PRODUCTS, DMP #DUALCOMF	7300-1157:0136	INCLUDED	———
RA	REMOTE ANNUNCIATOR	GAMEWELL/F.C.I. #RA-1000	7120-1477:0500	4" SQ. x 2 1/8" DP. OUTLET BOX	———
F	ADDRESSABLE MANUAL PULL STATION	GAMEWELL/F.C.I. #MS-7ASF	7150-1703:0119	4" SQ. x 2 1/8" DP. OUTLET BOX	PER DETAIL #4/E3.00
SD	ADDRESSABLE PHOTOELECTRONIC SMOKE DETECTOR	GAMEWELL/F.C.I. #ASD-PL3/B300-6	7272-1703:0501 7300-1653:0109	3.5" OCTAGON BOX OR 4" OCTAGON BOX WITH RAISED ROUND COVER	PER DETAIL #4/E3.00
AV 30 75	HORN STROBE, 15 CANDELA WALL MOUNTED	SYSTEM SENSOR #P2RK	7125-1653:0884	4" SQ. x 2 1/8" DP. OUTLET BOX	PER DETAIL #4/E3.00
V 15	VISUAL STROBE, CEILING MOUNTED (CANDELA RATING AS NOTED)	SYSTEM SENSOR #SCRL	7135-1653:0504	4" SQ. x 2 1/8" DP. OUTLET BOX	PER DETAIL #4/E3.00
AV 15 30	HORN STROBE, CEILING MOUNTED (CANDELA RATING AS NOTED)	SYSTEM SENSOR #PC2RL	7135-1653:0503	4" SQ. x 2 1/8" DP. OUTLET BOX WITH 1 1/2" DP. BOX EXTENSION	PER DETAIL #4/E3.00
H W.P.	EXTERIOR SPEAKER, WALL MOUNTED	SYSTEM SENSOR #HRK	7135-1653:0189	4" SQ. x 2 1/8" DP. OUTLET BOX WITH 1 1/2" DP. BOX EXTENSION, PROVIDE WEATHERPROOF PLATE FOR SEMI-FLUSH MOUNTING	———
(A) E.O.L.	END OF LINE RESISTOR	———	———	———	———
'FA' CABLE	ADDRESSABLE FIRE ALARM CABLE (INDOORS)	WEST PENN #D990	7161-0859:0101	———	———
'SFA' CABLE	ADDRESSABLE FIRE ALARM CABLE (OUTDOORS)	WEST PENN #AQ225	7161-0859:0101	———	———
'RAP' CABLE	2/4 VDC POWER CABLE	WEST PENN #9945	7161-0859:0101	———	———

NOTES (FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS):

(A) END OF LINE RESISTORS FOR CONVENTIONAL DEVICES CONNECTED TO ADDRESSABLE MONITOR MODULE DEVICES AND/OR ADDRESSABLE CONTROL MODULES SHALL BE 3.9K OHM, 1/2 WATT.

(B) VERIFY BACKBOX REQUIREMENTS WITH FIRE ALARM SYSTEM EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

FIRE ALARM CONTROL PANEL "F.A.C.P." BATTERY CALCULATION

DESCRIPTION	QUANTITY	SUPV. CURRENT EACH	SUPV. CURRENT SUB-TOTAL	ALARM CURRENT EACH	ALARM CURRENT SUB-TOTAL
CONTROL PANEL	1	0.1650	0.1650	0.3100	0.3100
REMOTE ANNUNCIATOR	1	0.0200	0.0200	0.0250	0.0250
MANUAL PULL STATION	3			(A)	
SMOKE DETECTOR	1				
HORN/30cd STROBE (WALL)	1	——	——	0.063	0.063
HORN/75cd STROBE (WALL)	2	——	——	0.107	0.214
15cd STROBE (CEILING)	2	——	——	0.041	0.082
HORN/15cd STROBE (CEILING)	3	——	——	0.041	0.123
HORN/30cd STROBE (CEILING)	2	——	——	0.063	0.126
TOTALS			0.185		0.943

TOTAL ALARM CURRENT OF 0.943 x 0.083 (5 MINUTES) = 0.078 A.H.
TOTAL SUPERVISORY CURRENT OF 0.185 x 24 HOURS = 4.440 A.H.
TOTAL AMP HOURS REQUIRED 4.518 A.H.
x 1.2 SAFETY FACTOR
5.4216 A.H.

PROVIDE 7.0 AMP HOUR BATTERIES

TYPICAL BATTERY CALCULATION NOTES:

(A) THE CURRENT VALUES LISTED INCLUDES THE MAXIMUM NUMBER OF ADDRESSABLE DEVICES ON BOTH OF THE SIGNALING LINE CIRCUITS 'S.L.C.' (159 ADDRESSABLE DETECTORS AND 159 ADDRESSABLE MODULES PER SIGNALING LINE CIRCUIT 'S.L.C.').

VOLTAGE DROP CALCULATIONS (OHM'S LAW)

VOLTAGE DROP = 2 (DC RESISTANCE AT 75°C FROM TABLE 8, C.E.C.) (LENGTH OF CIRCUIT / 1000) (CURRENT I)

PERCENT VOLTAGE DROP = VOLTAGE DROP / NOMINAL VOLTAGE x 100

1. NOTIFICATION APPLIANCE CIRCUIT 'NA':

AV 30 : 1 x 0.063 A = 0.063 A
AV 75 : 2 x 0.107 A = 0.214 A
AV 15 : 1 x 0.41 A = 0.041 A
AV 30 : 1 x 0.063 A = 0.063 A
H W.P. : 2 x 0.069 A = 0.138 A
0.519 A

VOLTAGE DROP = 2 (1.98) (200 / 1000) (0.519) = 0.4 V.D.

PERCENT VOLTAGE DROP = 0.4 / 24 x 100 = 1.7%

2. NOTIFICATION APPLIANCE CIRCUIT 'NB':

V 15 : 2 x 0.041 A = 0.082 A
AV 15 : 2 x 0.041 A = 0.082 A
AV 30 : 1 x 0.063 A = 0.063 A
H W.P. : 1 x 0.069 A = 0.069 A
0.296 A

VOLTAGE DROP = 2 (1.98) (180 / 1000) (0.296) = 0.2 V.D.

PERCENT VOLTAGE DROP = 0.2 / 24 x 100 = 0.8%

FIRE ALARM LEVEL OF AUDIBILITY

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15db ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR INSIDE BUILDING.

AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS.

THE FIRE ALARM SIGNAL SHALL BE A TEMPORAL PATTERN, CODE 3.

SCOPE OF WORK

1. PROVIDE A NEW MANUAL FIRE ALARM SYSTEM WITH SUPPLEMENTAL MANUAL FIRE DETECTION.
2. PROVIDE A FIRE ALARM CONTROL PANEL, ADDRESSABLE INITIATION DEVICES, NOTIFICATION APPLIANCES, CONDUIT, CABLING AND CONDUCTORS AS SHOWN ON THE DRAWINGS.

FIRE ALARM MONITORING NOTE

THE FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UL/FX (CENTRAL STATION) OR UL/IS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. SUPERVISION OF SYSTEM AND SHALL BE ARRANGED BY OWNER.

SIGNALING LINE CIRCUIT SCHEDULE

DESCRIPTION	SIGNALING LINE CIRCUIT
ADDRESSABLE/INITIATION DEVICES	S.L.C. #1

NOTIFICATION APPLIANCE CIRCUIT SCHEDULE

CIRCUIT	DESCRIPTION/LOCATION	PANEL
NA	VISUAL STROBES	F.A.C.P.
NB	VISUAL STROBES	F.A.C.P.

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

RESULT OF OPERATION	TYPE OF INITIATION: MANUAL PULL STATION	AREA SMOKE DETECTOR	LOSS OF POWER	SHORT CIRCUIT/ GROUND FAULT
ANNUNCIATE ALARM AT FIRE ALARM CONTROL PANEL	YES	YES	———	———
ANNUNCIATE TROUBLE AT FIRE ALARM CONTROL PANEL	———	———	YES	YES
ACTIVATE ALL AUDIBLE AND VISUAL ALARM SIGNALS	YES	YES	———	———
TRANSFER TO BATTERY BACK-UP	———	———	YES	———
ANNUNCIATE AT 24 HR. ATTENDED LOCATION	YES	YES	YES	———
CENTRAL STATION FOR MONITORING (ALARM)	YES	YES	———	———
CENTRAL STATION FOR MONITORING (TROUBLE)	———	———	YES	———

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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK NO. C-19670 11-30-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

REVISIONS

No	Date	Item

FIRE ALARM SYSTEM EQUIP. SPECS., CODES, NOTES, BATTERY AND V.D. CALCS., AND DETAILS

E3.00

REGISTERED PROFESSIONAL ENGINEER ROBERT K. TING No. E-18786 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth ~ (559)733-2671
Visalia, California 93292-6705

120/208V, 3 PH, 4 W
400 A. BUSSING 250 A. MAIN BKR.
54 CIRCUIT

PANEL "A"

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING
(A)

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT
1	20/1	1245			LIGHTS - WEST	LIGHTS - SIGN			1200	20/1	2
3	20/1		230		LIGHTS - EXTERIOR	DATA CABINET		720		20/1	4
5	20/1			540	RECEPT - EXTERIOR, ELEC.	RECEPT - LOUNGES	900			20/1	6
7	20/1	540			CONTROLLED RECEPT	RECEPT - LOUNGES			720	20/1	8
9	20/1		540		RECEPT - OFFICE	RECEPT - NORTH LOUNGE		720		20/1	10
11	20/1			720	RECEPT - OFFICE	RECEPT - NORTH LOUNGE	900			20/1	12
13	20/1	1080			RECEPT - CIRCULATION, COMP.	SPARE				20/1	14
15	20/1		1080		RECEPT - CIRCULATION, COMP.	LIGHTS & RECEPT - ATTIC SPACE		900		20/1	16
17	20/1			1080	RECEPT - CHILDREN'S AREA	F.A. CONTROL PANEL	480			20/1	18
19	20/1	1080			RECEPT - CHILDREN'S AREA	HPCU-1, 33.2 RLA			3985	60/3	20
21	20/1		1550		ELEC. FIREPLACE INSERT			3985			22
23	20/1			900	SELF CHECKOUT EQUIP.		3985				24
25	20/1				SPARE	HPFC-1, 4.9 MCA			590	15/2	26
27	20/2		1970		INDOOR/OUTDOOR UNIT, DS-1			590			28
29				1970		HPFC-2, 6.5 MCA	780			15/2	30
31	20/1	720			RECEPT - U.C. REFRIG.				780		32
33	30/2		2080		WTR. HTR, WH-2	SPARE				20/1	34
35				2080		LIGHTS - SITE	180			20/1	36
37	20/2	75			BRANCH SELECTOR BOX, BSB-1	LIGHTS - MONUMENT SIGN			1200	20/1	38
39			75			SPARE				20/1	40
41	20/1				SPARE	SPARE				20/1	42
43											44
45											46
47											48
37	100/3	5865									50
39			5310		PANEL "B"						52
41				5395							54

LOAD SUMMARY	A	B	C	
CONNECTED LOAD (VA) :	19080	19750	19910	TOTAL CALCULATED
25% LCL/LML (VA) :	2250	1694	1729	LOAD FOR PANEL:
TOTAL LOAD (VA) :	21330	21444	21639	64413 VA
TOTAL LOAD (AMPS) :	177.8	178.7	180.3	

120/208V, 3 PH, 4 W
225 A. BUSSING 225 A. MAIN BKR.
42 CIRCUIT

PANEL "B"

10K BREAKER A.I.C.
5 3/4" MAX. ENCL. DEPTH
SURF MOUNTING
(A)

CKT	BKR	LOAD: V.A. A	B	C	DESCRIPTION	DESCRIPTION	LOAD: V.A. C	B	A	BKR	CKT
1	20/1				SPARE	LIGHTS - EAST			565	20/1	2
3	20/1	900			RECEPT - VEST., R.R., BOOK	RECEPT - COMMUNITY RM		1080		20/1	4
5	20/1			1080	RECEPT - VEST., R.R.	RECEPT - COMMUNITY RM	1080			20/1	6
7	20/1					RECEPT - COMMUNITY RM			720	20/1	8
9	15/2		220		HPFC-1, 1.8 MCA	RECEPT - COMMUNITY RM		720		20/1	10
11				220		LIGHTS & RECEPT - ATTIC SPACE	900			20/1	12
13	15/2	1035			HPFC-4, 8.6 MCA	EXH. FANS, 101, 102, 103			25	20/1	14
15			1035			SPARE				20/1	16
17	15/2			410	HPFC-5, 3.4 MCA	AUTO SLIDING DOOR	620			20/1	18
19		410				SPARE				20/1	20
21	20/1				SPARE	REMOTE PICK UP LOCKER		600		20/1	22
(B) 23	20/1			385	DRINKING FOUNTAIN "DF-1", REMOTE CHILLER	SELF CHECKOUT EQUIP.	900			20/1	24
25	20/1				SPARE	WTR HTR, WH-1			3000	30/1	26
27	20/1		620		AUTO SLIDING DOOR	SPARE				20/1	28
29											30
31											32
33											34
35											36
37											38
39											40
41											42

LOAD SUMMARY	A	B	C	
CONNECTED LOAD (VA) :	5755	5175	5595	TOTAL CALCULATED
25% LCL/LML (VA) :	110	315	160	LOAD FOR PANEL:
TOTAL LOAD (VA) :	5865	5490	5755	17110 VA
TOTAL LOAD (AMPS) :	48.9	45.8	48.0	

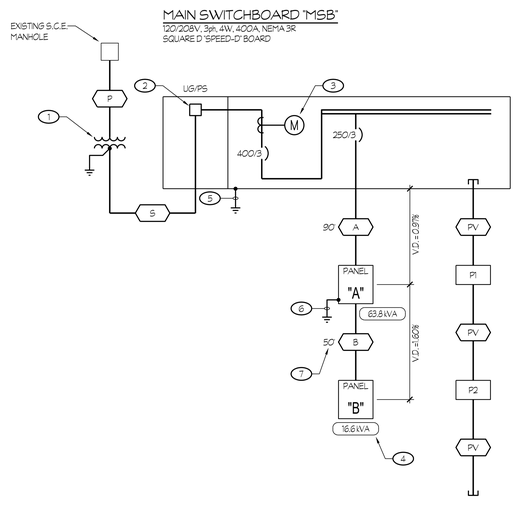
TYPICAL PANEL SCHEDULE NOTES:

(A) THE PANELBOARD MUST INCORPORATE BRANCH CIRCUIT MONITORING FOR EACH LOAD (EXCEPT FOR CIRCUIT BREAKERS TO 'DOWNSTREAM' SUB-PANELS) CONTAINED IN THE PANELBOARD INCLUDING THE ABILITY TO TOTALIZE THE LOADS. THE BRANCH CIRCUIT MONITORING SHALL HAVE MODBUS 485 OUTPUT STANDARD TO COMMUNICATE WITH BUILDING MANAGEMENT SOFTWARE. THE BRANCH CIRCUIT MONITORING MUST MEET TITLE 24 DISAGGREGATION CRITERIA, AS DEFINED IN SECTION 130.5 ELECTRICAL POWER DISTRIBUTION SYSTEMS OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS. BRANCH CIRCUIT MONITORING SHALL UTILIZE SOLID CORE CT STRIPS. PROVIDE EATON POW-R-LINE BCM PANELBOARD, SQUARE D POWERLOGIC BCPMB, OR APPROVED EQUAL.

(B) PROVIDE A G.F.C.I. TYPE CIRCUIT BREAKER.

MAIN SWITCHBOARD "MSB"

120/208V, 3ph, 4W, 400A NEMA 3R
SQUARE D 'SPEED-D' BOARD



1 ONE LINE DIAGRAM
NTS

ONE LINE DIAGRAM NOTES:

1. PROVIDE A 72" x 84" CONCRETE TRANSFORMER PAD, GROUNDING AND BARRIER POSTS PER S.C.E. REQUIREMENTS.
2. PROVIDE LANDING LUGS PER S.C.E. REQUIREMENTS.
3. PROVIDE METERING FACILITIES PER S.C.E. REQUIREMENTS.
4. NUMERALS INSIDE SYMBOL ( ) DENOTE CONNECTED LOAD PLUS 25% OF L.C.L.
5. 1 #3/0 TO GROUNDING ELECTRODE SYSTEM PER DETAIL #12/E5.00.
6. BOND AND GROUND REMOTE PANEL PER DETAIL #9/E5.00.
7. LENGTHS INDICATED WERE USED FOR CALCULATION PURPOSES ONLY AND BASED UPON THE 'DIAGRAMMATIC' LAYOUT SHOWN ON THE DRAWINGS. LENGTHS SHALL NOT BE USED FOR BIDDING.

NEW FEEDER SCHEDULE:

(ALL UNDERGROUND CONDUCTORS, OF A 480/277V POWER SYSTEM, SHALL BE TYPE CU-XHHW-2. ALL OTHER CONDUCTORS, INCLUDING THE EQUIPMENT GROUNDING CONDUCTOR, SHALL BE CU-THWN-2 FOR #8 AWG OR LARGER AND CU-THWN FOR #10 AWG OR SMALLER).

- (A) 3"C - 4 #250 kcmil + 1 #4 GND.
- (B) 1 1/2"C - 4 #2 + 1 #8 GND.
- (P) ONE 5"C (S.C.E. "PRIMARY") PER S.C.E. REQUIREMENTS.
- (S) ONE 4"C (S.C.E. "SECONDARY") PER S.C.E. REQUIREMENTS.
- (PV) ONE 2"C (SPARE) EQUIPPED WITH A NYLON PULL STRING FOR 'FUTURE' P.V. SYSTEM.

Rose Sing Eastham & Associates
Electrical Consultants
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Visalia, California 93292-6705

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ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

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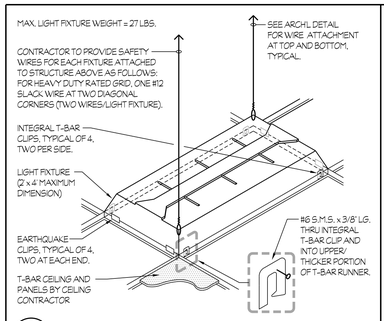
REVISIONS

No	Date	Item

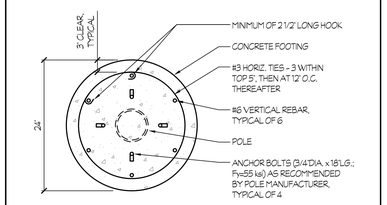
ONE LINE DIAGRAM AND PANEL SCHEDULES

E4.00



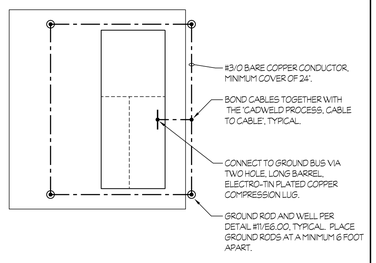
1 RECESSED FIXTURE MOUNTING

NTS



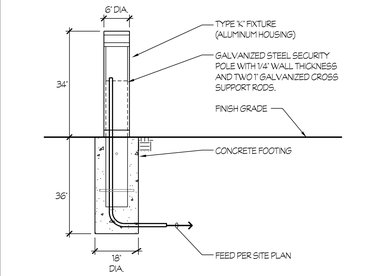
6 CROSS SECTION OF CONCRETE FOOTING

NTS



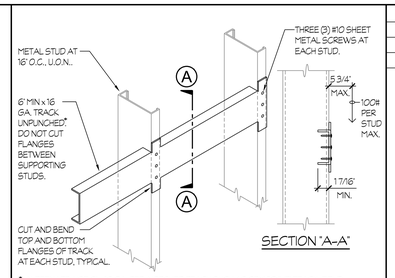
10 MAIN SWITCHBOARD "MSB" GROUNDING AND BONDING

NTS



13 TYPE "K" FIXTURE MOUNTING

(SIMILAR MOUNTING FOR TYPE 'L' FIXTURE) NTS

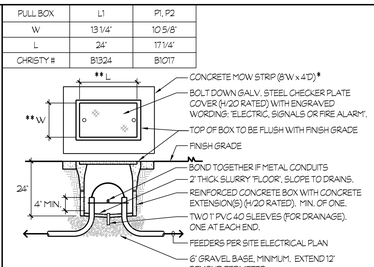


* ALTERNATE: USE 6" x 16 GA. PRE-NOTCHED TRACK SUCH AS CEMCO 'NT' TRACK. FIELD CUT FLANGES AT ODD STUD SPACINGS. NOTCHES BETWEEN STUDS ARE NOT ALLOWED.

16 BLOCKING AT METAL STUDS

NTS

PULL BOX	L1	P1, P2
W	13 1/4"	10 5/8"
L	24"	17 1/4"
CHRISTY #	B1324	B1017

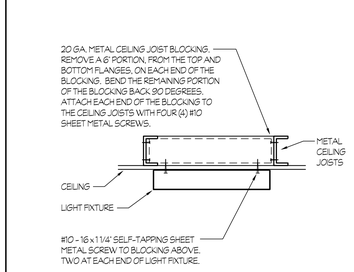


*NOTE: WHERE PULL BOX IS ADJACENT TO CONCRETE WALK, EXTEND MOWSTRIP TO CONNECT WITH WALK. FOAM SEAL ALL CONDUITS IN 'Y' AND BOXES.

**NOTE: INTERIOR DIMENSIONS MEASURED AT 'OPENING' OF PULL BOX.

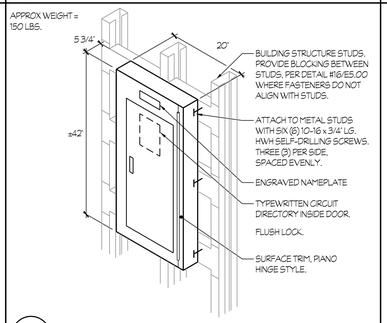
18 PULL BOX MOUNTING

NTS



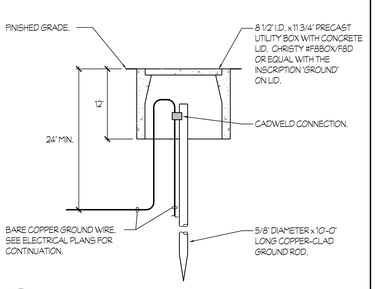
2 SURFACE FIXTURE MOUNTING

NTS



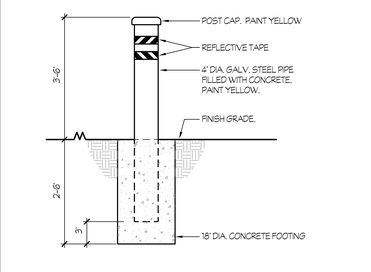
7 SURFACE MOUNTED PANEL

NTS



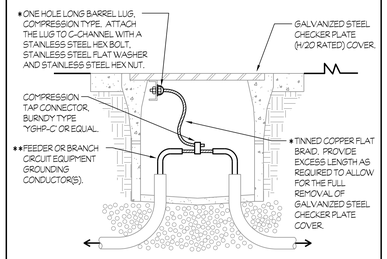
11 GROUND ROD MOUNTING

NTS



14 GUARD POST DETAIL

NTS



*THIS TYPICAL WORK SHALL BE PROVIDED FOR EACH SECTION OF A MULTIPLE SECTION COVER.

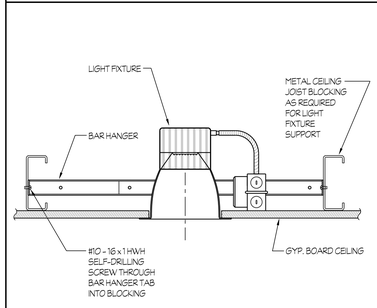
**THIS TYPICAL WORK SHALL BE DONE FOR EACH OF THE LARGEST FEEDER (OR BRANCH CIRCUIT) EQUIPMENT GROUNDING CONDUCTOR, PASSING THRU THE RESPECTIVE PULL BOX, WHICH ORIGINATE FROM SEPARATE SOURCES/VOLTAGES.

MATRIX FOR TINNED COPPER FLAT BRAID		
SIZE OF EQUIPMENT GROUNDING CONDUCTOR (6)	ALPHA WIRE PART #	OLYMPIC WIRE AND CABLE PART #
#8	1233	708
#6	1235	710
#4	1239	710
#2 THRU #1/0	1240	713
#2/0 THRU #4/0	1241	714

(6) CONTAINED IN THE LARGEST FEEDER (OR BRANCH CIRCUIT) PASSING THRU THE RESPECTIVE PULL BOX.

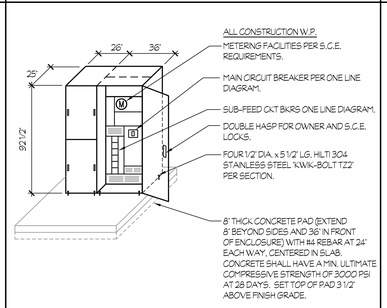
17 BONDING OF STEEL CHECKER PLATE COVERS

(AT ALL 'POWER' PULL BOXES) NTS



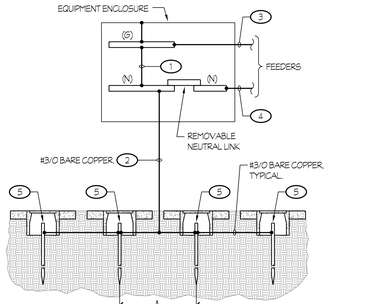
3 RECESSED DOWNLIGHT MOUNTING

NTS



8 MAIN SWITCHBOARD "MSB"

NTS



12 MAIN SWITCHBOARD "MSB" GROUNDING ELECTRODE SYSTEM

NTS

NOTES (THIS DETAIL ONLY):

1. SYSTEM BONDING JUMPER PER C.E.C. 250.30 (A), (1), SIZED PER C.E.C. TABLE 250.102 (C) (1).
2. FULL SIZE GROUNDING ELECTRODE CONDUCTOR PER C.E.C. TABLE 250.66.
3. EQUIPMENT GROUNDING CONDUCTOR, SIZED PER C.E.C. TABLE 250.122.
4. NEUTRAL CONDUCTOR PER FEEDER SCHEDULE.
5. 5/8" DIA. ROD ELECTRODE PER C.E.C. 250.52 (A), (5) AND GROUND ROD BOX PER DETAIL #11/E6.00.

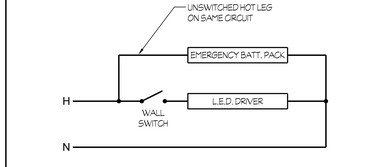
LEGEND:

(6) - DENOTES THE GROUND BUS

(N) - DENOTES THE NEUTRAL BUS

GENERAL NOTE:

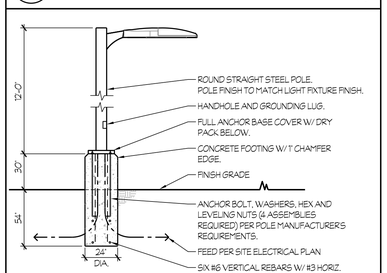
ALL MATERIALS AND METHODS USED IN GROUNDING AND BONDING SHALL COMPLY WITH C.E.C. ARTICLE 250.



CONNECT LIGHT FIXTURE SO THAT THE L.E.D. DRIVER IS CONTROLLED BY THE WALL SWITCH AND THAT THE L.E.D. DRIVER IS ALSO CONNECTED TO THE EMERGENCY BATTERY PACK. LIGHT FIXTURE SHALL OPERATE DURING A POWER OUTAGE REGARDLESS OF THE POSITION OF THE WALL SWITCH.

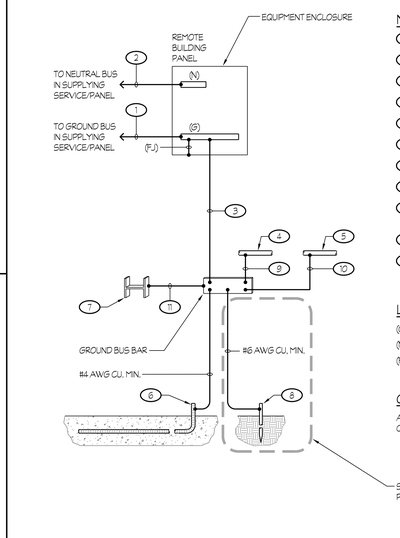
4 EMERGENCY BATTERY PACK WIRING DIAGRAM

NTS



5 TYPE "P" FIXTURE MOUNTING

NTS



NOTES (THIS DETAIL ONLY):

1. EQUIPMENT GROUNDING CONDUCTOR, SIZED PER C.E.C., TABLE 250.122.
2. NEUTRAL CONDUCTOR PER FEEDER SCHEDULE.
3. FULL SIZE GROUNDING ELECTRODE CONDUCTOR PER C.E.C., TABLE 250.66.
4. METAL WATER PIPING PER C.E.C. 250.104 (A).
5. OTHER METAL PIPING SYSTEM(S) PER C.E.C. 250.104 (B).
6. CONCRETE-ENCASED ELECTRODE PER C.E.C. 250.52 (A), (3).
7. STRUCTURAL METAL PER C.E.C. 250.104 (C).
8. 5/8" DIA. ROD ELECTRODE PER C.E.C. 250.52 (A), (5).
9. BONDING JUMPER PER C.E.C. 250.104 (A), (1), SIZED PER C.E.C. TABLE 250.102 (C) (1).
10. BONDING JUMPER PER C.E.C. 250.104 (B), SIZED PER C.E.C. TABLE 250.122.
11. BONDING JUMPER PER C.E.C. 250.104 (C), SIZED PER C.E.C. TABLE 250.102 (C) (1).

LEGEND:

(G) - DENOTES THE GROUND BUS OR BAR

(N) - DENOTES THE NEUTRAL BUS OR BAR

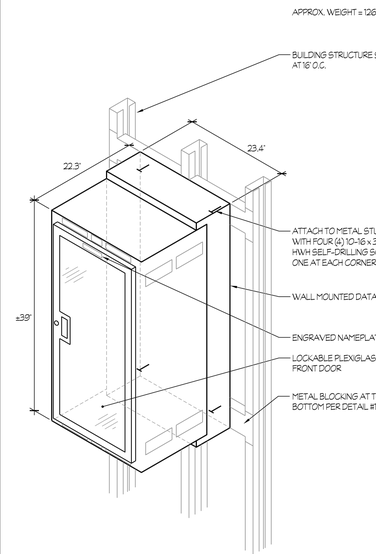
(FJ) - FACTORY SUPPLIED JUMPER

GENERAL NOTE:

ALL MATERIALS AND METHODS USED IN GROUNDING AND BONDING SHALL COMPLY WITH C.E.C. ARTICLE 250.

9 REMOTE BUILDING PANEL - GROUNDING AND BONDING

NTS



15 HORIZONTAL CROSS-CONNECT "HC" MOUNTING AND ELEVATION

NTS

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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY No. C-19670 RENEWAL 08-31-23 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

REVISIONS

No	Date	Item

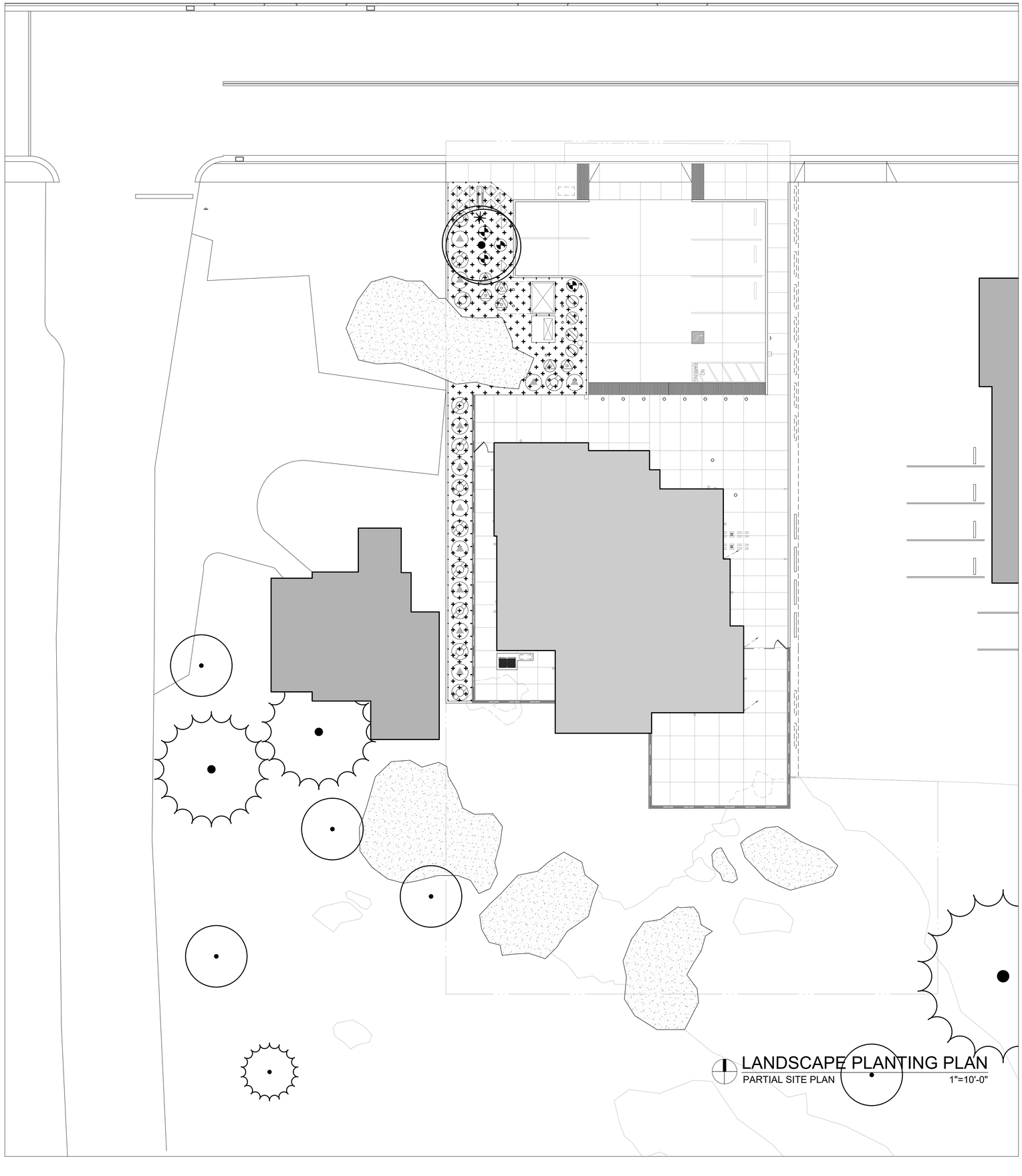
DETAILS

E5.00

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER KIRK A. EASTHAM No. E-18786 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

Z:\Drafting\Jobs\0613\Tulare County\New Public Library - Springville\E5.00.dwg DATE: 9:44:01 09/12/23 BY: Nicole DATE PLOTTED: 09/29/23 JOB # 22-061-05



LANDSCAPE PLANTING PLAN
PARTIAL SITE PLAN 1"=10'-0"

LANDSCAPE PLANTING LEGEND

SYMBOL	SIZE	WATER USE	DESCRIPTION
	1 Gal	Low	LANTANA montevidensis 'Trailing Lavender', Lavender Lantana.
	1 Gal	Low	ARCTOSTAPHYLOS manzanita, 'Emerald Carpet'.
	1 Gal	Low	DIETES iridioides 'Lemon Drops', Hybrid Fortnight Lily.
	5 Gal	Low	NANDINA domestica 'Gulf Stream', Heavenly Bamboo.
	5 Gal	Low	MUHLENBERGIA capillaris 'Regal Mist', Regal Mist Grass.
	5 Gal	Low	ARCTOSTAPHYLOS manzanita 'Sun Set'.
	5 Gal	Low	CEANOTHUS 'skylark' Blue Mountain Lilac.
	15 Gal	Low	CERCIS occidentalis, Western Red Bud, Low Branch / Multi Form.
	Existing		Existing Tree to Remain & Protect. Limit compaction and disturbance within the tree drip line. Use orange construction fencing to limit access to these areas before starting work. Provide temporary water as required to maintain a healthy growth state. All existing campus trees not shown are to Remain & Protect with above requirements in areas with construction activities. Contractor to field verify.
			3" Compacted Layer of Walk on Bark Topdressing Mulch to be supplied by Superior Soil Suppliments. Topdressing Mulch to be placed in all non turf landscape areas. Topdressing Mulch thickness is to be evaluated at the end of maintenance period and areas that do not have 3" compacted thickness are to have additional mulch added to have specified depth prior to project closeout.
			6" x 6" Concrete Mow Strip with one(1) #4 rebar and deep groove expansion joints installed ten feet (10'-0") on center. See Installation Detail #02 on Plan Sheet L2.00 for additional information.

SEE TREE AND SHRUB PLANTING DETAIL #06 ON PLAN SHEET L2.00.

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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY C-19670 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

landscape architect #3887 DB associates
David Bigler Associates
Landscape Architect #3887
516 W Shaw Ave, #101
Fresno, California 93704
E Mail: davebigler @aol.com
Tel: (559) 276-9495
Fax: (559) 276-9497

LICENSED LANDSCAPE ARCHITECT DAVID B. BIGLER RLA # 3887 31 JULY 24 RENEWAL STATE OF CALIFORNIA

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	05.05.23

REVISIONS

No	Date	Item

LANDSCAPE PLANTING PLAN

L1.00

LANDSCAPE IRRIGATION LEGEND

SYMBOL	DESCRIPTION
○	Rainbird #RWS-B-C-1402 with #1402 (0.5 gpm) bubbler Root Watering System. Install on uphill side of plant or tree. Install 24 inches from center of tree location. See Installation Detail #04 on Plan Sheet L2.00 for additional information.
●	Rainbird #1804-SAM-PRS, 4" Pop-up Sprinkler with pressure regulation and check valve with Hunter PC Multi Stream Bubbler Nozzle (½" inlet: 0.25 gpm @ 30 psi). Install on uphill side of plant or tree. See Installation Detail #01 on Plan Sheet L2.00 for additional information.
⊕	Rainbird #1804-SAM-PRS, 4" Pop-up Sprinkler with pressure regulation and check valve with Hunter PC Multi Stream Bubbler Nozzle (½" inlet: 0.5 gpm @ 30 psi). Install on uphill side of plant or tree. Install 24 inches from center of tree location. Install 12 inches from center of shrub location. See Installation Detail #01 on Plan Sheet L2.00 for additional information.
⬡	1" Rainbird #100-PESB-PRS-D, PESB Series Electric Remote Control Scrubber Valve w/ pressure regulation (PRS-D). Install one valve per standard rectangular valve box. Mainline schedule 80 nipple entering the valve is to be the same size as the lateral exiting the valve. Install line size filter on bubbler valves. See Installation Detail #12 on Plan Sheet L2.01 for additional information.
A-01 / 4.0	Controller # / Station # Gallons per minute
◆	Rainbird 44LRC, Quick Coupling Valve with locking rubber cover. Provide Maintenance Personnel with three (3) quick coupler keys with hose swivels and three (3) cover keys. Install in separate 10" round valve box. See Installation Detail #08 on Plan Sheet L2.00 for additional information.
⊠	1" NIBCO # T-113 IRR Isolation Gate Valve. Gate Valves are to be line size as noted on the plan. Provide two (2) operating handles (3' min. length) for each type required to the Owner. See Installation Detail #07 on Plan Sheet L2.00 for additional information.
———	1"; PVC Class 200 Solvent Weld lateral pipe. Sleeve all pipe under paved surfaces over eight feet wide with PVC Class 200 pipe a minimum of two times larger than the pipe being sleeved. One pipe per sleeve only. Minimum sleeve size is 2". Wires are to be sleeved separately from pipe. All lateral piping is to be 1" size see lateral pipe sizing chart, Detail #03 on plan sheet L2.00 for additional information. Pipe sizing is not to exceed 5.0 feet per second flow velocity. Install all pipe in strict accordance with manufacturers instructions, using appropriate cement and primer for the various pipe sizes and prevailing site conditions. (Note: 1/2", 3/4" & 1 1/4" pipes are not allowed to be used on the project.) See Installation Detail #09 & #10 on plan sheet L2.00 for additional information.
——·——	1" PVC SCHEDULE 40 SOLVENT WELD MAINLINE PIPE. Size mainline piping as noted on the plan. Install all pipe in strict accordance with manufacturers instructions. No bending, or curving of pipe will be allowed, except as permitted by the pipe manufacturer. Pipe manufacturer must be approved prior to ordering materials. Sleeve all pipe under paved surfaces per Sleeving Detail. All mainline fittings that are three inch (3"), or smaller are to be Lasco Schedule 80 Solvent Weld fittings, or approved equal. See manufacturers installation instructions. See Installation Details #09 & #10 on Plan Sheet L2.00 for additional information.
——·——	1 1/2" PVC SCHEDULE 40 SOLVENT WELD ELECTRICAL CONDUIT FOR LOW VOLTAGE CONTROL WIRING TO CONTROLLER. Install all pipe in strict accordance with manufacturers instructions. No bending, or curving of pipe will be allowed, except as permitted by the pipe manufacturer. Pipe manufacturer must be approved prior to ordering materials. All electrical conduit fittings that are three inch (3"), or smaller are to be Lasco Schedule 40 Solvent Weld fittings, or approved equal. See manufacturers installation instructions. See Architectural Site Plan for additional information.
POC	POC - Point of Connection: Contractor is to connect 1" PVC Mainline Pipe at discharge side of Reduced Pressure Backflow Prevention Device to be installed by Site Utility Contractor, see Site Civil / Utility Plan. Landscape Contractor to coordinate all work as required. See Site Civil Plans.
A	One (1) Hunter #I2C-800-M with #ICM-400, 12 Station ICC2 Series Irrigation Controller to be installed in wall mount configuration with #WSS-SEN Solar Sync wireless weather sensor with #ROAMXL-KIT Remote Control Kit for remote activation of the Irrigation system. Install Weather Sensor in south to southwest location in full sun over landscape area within 250 feet of controller. Install on building or light pole a minimum of 12'-0" above grade. Contractor to coordinate 120 volt electrical for controller as required, see Electrical Plans. See Installation Detail #05 on Plan Sheet L2.00 & #13 on Plan Sheet L2.01.
BFP 01	Potable Water Backflow Preventer #1: 1" Backflow Preventer installed by Site Utility Contractor. Contractor to field verify.
BFP 02	Irrigation Backflow Preventer #2: 1" Backflow Preventer installed by Site Utility Contractor. Contractor is to connect to the discharge side of the Irrigation Backflow Preventer. Contractor to field verify.
WM 01	Water Meter installed by Site Utility Contractor to Remain & Protect. Contractor to field verify.

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ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY No. C-19670 30-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

landscape architect #3887 DB associates
David Bigler Associates
Landscape Architect #3887
516 W Shaw Ave, #101
Fresno, California 93704
E Mail: davebigler @aol.com
Tel: (559) 276-9495
Fax: (559) 276-9497

LICENSED LANDSCAPE ARCHITECT DAVID P. BIGLER No. 3887 STATE OF CALIFORNIA
LA # 3887
31 JULY 24
RENEWAL DATE

AGENCY APPROVAL

PROJECT INFO

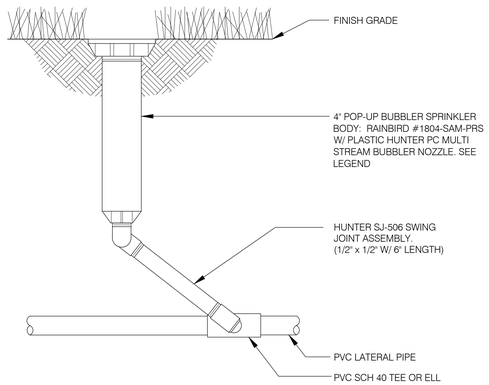
Project No	569-0003
Date	05.05.23

REVISIONS

No	Date	Item

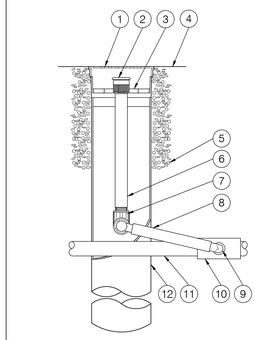
LANDSCAPE IRRIGATION PLAN

L1.01



NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

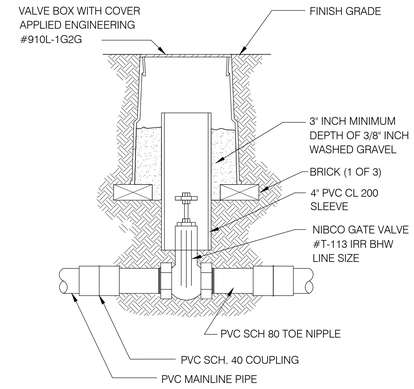
01 4" POP-UP LOW FLOW BUBBLER NTS



1. 4-INCH GRATE
2. BUBBLER: RAIN BIRD 1402 - 0.5 GPM
3. ROOT WATERING SYSTEM: RAIN BIRD RWS-B-C-1402 (INCLUDES 1402 0.5 GPM BUBBLER WITH RISER, GRATE, SWING ASSEMBLY, 1/2" MALE NPT INLET, AND BASKET CANISTER)
4. FINISH GRADE
5. PEA GRAVEL - 1.0 cu. ft.
6. 1/2-INCH PVC SCH 80 NIPPLE
7. 1/2-INCH 90-DEGREE ELBOW
8. 12-INCH SWING ASSEMBLY
9. 1/2-INCH MALE NPT INLET
10. PVC SCH 40 TEE OR EL
11. LATERAL PIPE
12. 4-INCH BASKET WEAVE CANISTER

NOTE: INSTALL ROOT WATERING SYSTEM WITH BUBBLER INSIDE THE TREE WATERING BASIN AND INSIDE THE TREE ROOT BARRIER ON THE UPHILL SIDE OF TREE, IF FINISH GRADE IS SLOPED INSTALL RWS-90CK IN SANDY SOILS.

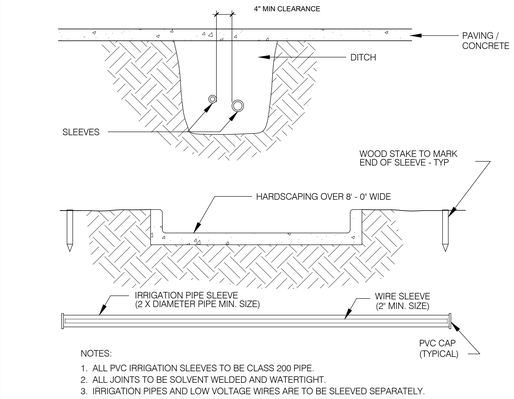
04 ROOT WATERING TREE BUBBLER NTS



(3" GATE VALVES AND SMALLER)

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

07 MAINLINE GATE VALVE NTS

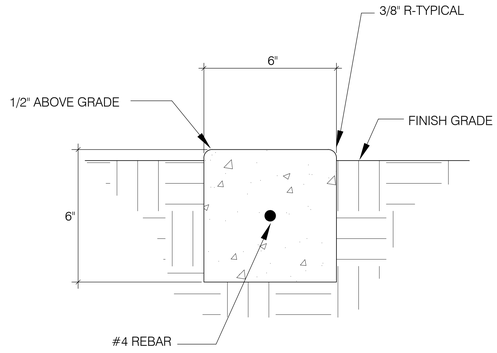


NOTES:

1. ALL PVC IRRIGATION SLEEVES TO BE CLASS 200 PIPE.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. IRRIGATION PIPES AND LOW VOLTAGE WIRES ARE TO BE SLEEVED SEPARATELY.
4. ALL PIPES & WIRES ARE TO BE SLEEVED UNDER PAVED/CONC. 8'-0" WIDE OR WIDER. MECHANICALLY COMPACT TO 95% PROCTOR.

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

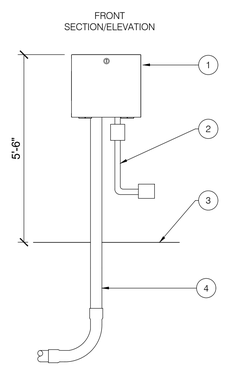
09 SLEEVING DETAIL NTS



NOTES:

INSTALL EXPANSION JOINTS 10'-0" O.C.

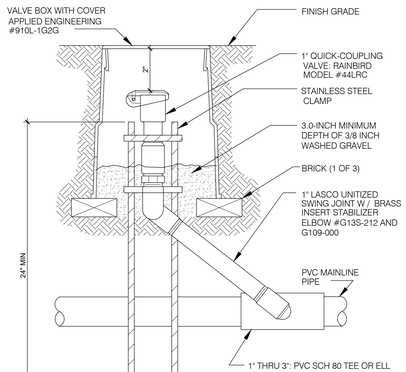
02 CONCRETE MOW STRIP DETAIL NTS



1. HUNTER ICC2 IRRIGATION CONTROLLER WITH METAL CABINET, WALL MOUNT. SEE LEGEND FOR MODEL NUMBER.
2. 1" CONDUIT FOR ELECTRICAL POWER CONDUCTORS PER LOCAL AND NATIONAL CODES
3. FINISH GRADE/FLOOR ELEVATION
4. 1 1/2" CONDUIT FOR LOW VOLTAGE REMOTE CONTROL VALVE CONTROL WIRES

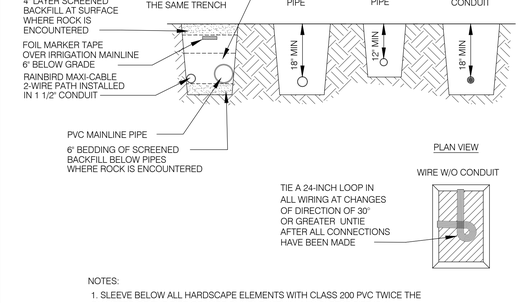
NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

05 IRRIGATION CONTROLLER 'A' NTS



NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

08 QUICK-COUPLING VALVE NTS



NOTES:

1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN, MIN SLEEVE SIZE IS 2".
2. INSTALL ALL PIPE AND WIRE IN STRICT CONFORMANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

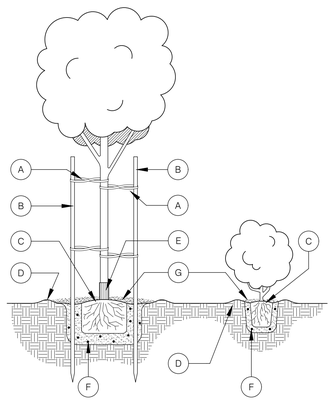
10 TRENCHING DETAIL NTS

SPRINKLER FLOW RATE CHART	
SYMBOL	RESPECTIVE FLOW RATE (GPM)
● ○ ⊕	0.25 GPM, 0.5 GPM, 0.5 GPM

LATERAL PIPE SIZING CHART	PIPE SIZE	ALLOWABLE FLOW (GPM)
	3/4"	NOT USED
	1"	0 - 16.0
	1 1/2"	NOT USED
	2"	NOT USED
	2 1/2"	NOT USED

NOTE: CONTRACTOR TO USE SPECIFIED NOZZLE RATING (GPM) FOR LATERAL PIPE SIZE CALCULATIONS AS SHOWN IN THE SPRINKLER FLOW RATE CHART. FLOW RATINGS (GPM) ARE TO BE USED AT THE 50 PSI PRESSURE. FLOW VELOCITIES OF FIVE FEET PER SECOND SHALL NOT BE EXCEEDED. PIPE SIZES NOTED ON THE PLAN SHALL SUPERCEDE CALCULATED PIPE SIZES BY THE CONTRACTOR. LANDSCAPE ARCHITECT TO REVIEW ALL PIPE SIZING IN THE FIELD PRIOR TO BACKFILL OF ANY TRENCHES. CONTRACTOR TO SUBMIT A SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO TRENCHING.

03 LATERAL PIPE SIZING CHART NTS



KEY NOTES

- A. TREE TIES TO BE APPROVED RUBBER OR PLASTIC STRAPS NAILED TO STAKES
- B. TREATED 2"x10' LODGE POLE STAKE TO BE SET VERTICAL
- C. TOP OF ROOT BALL IS TO BE SET SLIGHTLY ABOVE FINISH GRADE
- D. CONSTRUCT WATER BASIN TO THE DIAMETER NOTED BELOW WITH 3" BERM AROUND PERIMETER. SOFTEN BERM IN TURF AREAS. REMOVE ALL TURF WITHIN BERM AREA IN TURF AREAS

BERM DIAMETER	SIZE OF PLANT
30"	15 GALLON PLANT
36"	24" BOX
16"	5 GALLON PLANT
12"	1 GALLON PLANT

- E. EXPANDABLE STRING TRIMMER TREE BOOT. USE ON TREES INSTALLED IN TURF AREAS ONLY
- F. AGRIFORM PLANT FERTILIZER TABLETS
- G. MULCH AS TOP DRESSING ALL NON TURF LANDSCAPE AREAS WITH WALK ON BARK AS SUPPLIED BY SUPERIOR SOIL SUPPLEMENTS. INSTALL TO A COMPACTED DEPTH OF THREE INCHES (3"). DO NOT ENGULF THE STEMS OR TRUNKS OF SHRUBS AND TREES.

PLANTING NOTES

1. ONE DRAINAGE HOLE, MIN. DIAMETER 18", SHALL BE DRILLED FOR EACH TREE TO A MIN. DEPTH OF TEN FEET (10') BACKFILL WITH ORIGINAL SOIL. DRAINAGE HOLE IS TO BE OFF SET FROM THE PLANTING HOLE TO PREVENT SETTLEMENT OF THE TREE OR SHRUB.
2. PLANTING HOLE IS TO BE TWICE THE DIAMETER OF CONTAINER WITH DEPTH EQUAL TO ROOT BALL, PLUS FOUR INCHES. BACKFILL WITH 85% CLEAN NATIVE SOIL MIXED WITH 15% NITRIFIED AGED FIR BARK HUMUS. APPLY AGRIFORM PLANT FERTILIZER TABS TO BACKFILL AS FOLLOWS.

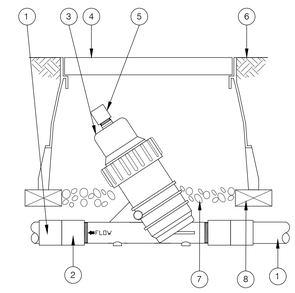
# OF TABS	SIZE OF PLANT
2	1 GALLON SIZE
4	5 GALLON SIZE
6	15 GALLON SIZE
8	24" BOX SIZE
10	36" BOX SIZE

3. PLACE TREE OR SHRUB IN CENTER OF PLANTING HOLE.
4. TAMP BACKFILL TO FORCE OUT ALL AIR POCKETS. FOOT TAMP BACKFILL BELOW ROOT BALL TO PREVENT SETTLEMENT.
5. WATER TREE OR SHRUB IMMEDIATELY AFTER PLANTING
6. DOUBLE STAKE, WITH ONE STAKE TO BE PLACED ON THE WINDWARD SIDE AND THE OTHER PLACED ON THE LEEWARD SIDE OF THE TYPICAL PREVAILING WIND. TOP OF STAKE IS TO BE SIX INCHES BELOW THE BRANCHING POINT OF THE CROWN.

06 TREE AND SHRUB PLANTING DETAIL NTS

FILTER SIZE CHART

VALVE SIZE	FILTER SIZE	FILTER MODEL
1"	1"	HY-100
1 1/2"	1 1/2"	HY-151
2"	2"	HY-201



1. PVC LATERAL PIPE
2. PVC SCH 40 FEMALE ADAPTER (1 OF 2), LINE SIZE
3. HUNTER Y-FILTER WITH 150 MESH FILTER ELEMENT, SAME SIZE AS VALVE.
4. VALVE BOX W/ COVER: 12" SIZE
5. 3/4" PVC CAP
6. FINISH GRADE
7. 3" MIN DEPTH OF 3/8" WASHED GRAVEL
8. BRICK (1 OF 4)

NOTE: INSTALL LINE SIZE FILTER (SEE FILTER SIZE CHART) ON BUBBLER AND TORO PRECISION SPRAY VALVES IN SEPARATE VALVE BOXES - ADJACENT TO REMOTE CONTROL VALVE. FILTERS ARE TO BE INSTALLED ON DISCHARGE SIDE OF VALVE.

11 1" / 1 1/2" / 2" Y FILTER DETAIL NTS

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA. 93301
www.aparchitects.net

COUNTY OF TULARE LIBRARY SPRINGVILLE BRANCH

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY C-19670 30-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

David Bigler Associates
Landscape Architect #3887
516 W Shaw Ave, #101
Fresno, California 93704
E Mail: davebigler @aol.com
Tel: (559) 276-9495
Fax: (559) 276-9497

LICENSED LANDSCAPE ARCHITECT DAVID B. BIGLER RLA #3887 31 JULY 24 RENEWAL DATE STATE OF CALIFORNIA

AGENCY APPROVAL

PROJECT INFO

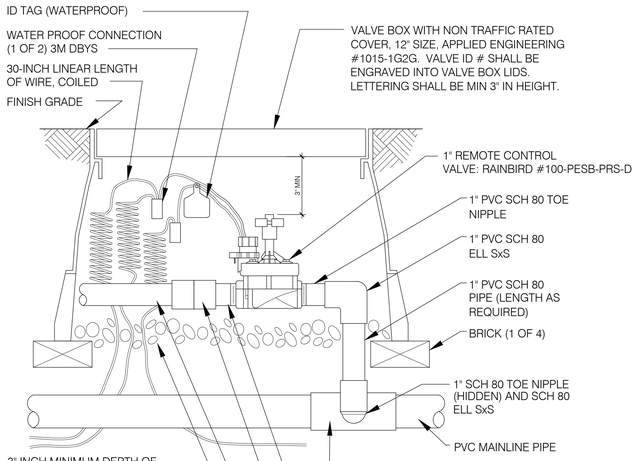
Project No	569-0003
Date	05.05.23

REVISIONS

No	Date	Item

LANDSCAPE & IRRIGATION DETAILS

L2.00

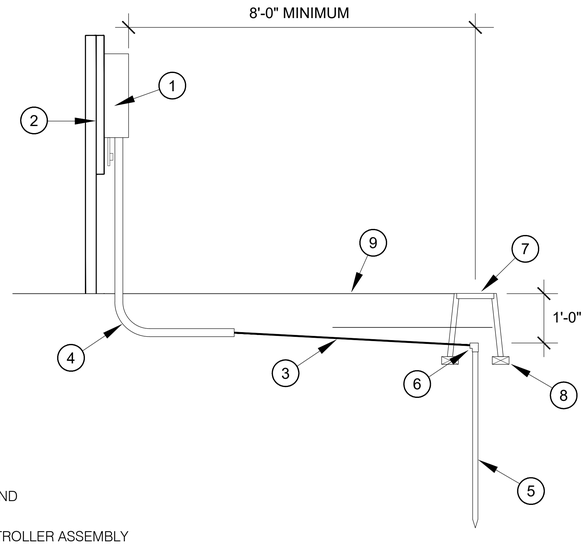


NOTES

1. Install a maximum of one remote control valve per 12" rectangular valve box.
2. Note: Contractor to install Pressure Regulating Module (PRS-B) for all Valves.
3. Install line size Filter on all low flow pop up bubbler valves in separate valve box; adjacent to Remote Control Valve on discharge side. See Detail #12.

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

12 1" REMOTE CONTROL VALVE DETAIL NTS



LEGEND

1. CONTROLLER ASSEMBLY
2. IRRIGATION CONTROLLER WEATHER-PROOF BACK BOARD
3. SOLID BARE COPPER GROUNDING WIRE (#6 AWG) FROM IRRIGATION CONTROLLER TO GROUNDING ROD. MAKE WIRE RUNS AS STRAIGHT AS POSSIBLE.
4. 1" ELECTRICAL CONDUIT LONG SWEEP ELL
5. 5/8" X 8' LONG COPPER CLAD GROUNDING ROD.
6. CADWELD PLUS "ONE SHOT" - CADWELD CONNECTION #GT1161GPLUS, PERMANENT WELD OF BARE COPPER WIRES TO GROUNDING ROD.
7. 10" ROUND VALVE BOX WITH LID.
8. BRICKS, THREE (3) REQUIRED PER VALVE BOX.
9. FINISH GRADE

NOTE: SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS

13 IRRIGATION CONTROLLER 'A' GROUNDING DETAIL NTS

LANDSCAPE & IRRIGATION NOTES

1. PRODUCT "OR APPROVED EQUAL" SPECIFICATION NOTE: ALL SPECIFIED MATERIALS, PRODUCTS AND MANUFACTURERS ARE RELEVANT TO DESCRIBE THE REQUIRED QUALITY AND FEATURES OF A PARTICULAR COMPONENT OF THE PROJECT, HOWEVER, THE SPECIFIC PRODUCT OR MANUFACTURER NOTED IS TO BE CONSTRUED TO BE FOLLOWED BY THE WORDS, "OR APPROVED EQUAL".

2. GENERAL NOTE: THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT, MATERIALS AND LABOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. ADDITIONAL EQUIPMENT AND MATERIALS IN ADDITION TO THE SYSTEM COMPONENTS LISTED IN THE LEGEND MAY BE REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

3. SPRINKLER ADJUSTMENT NOTE: CONTRACTOR SHALL MAKE ANY ADJUSTMENTS OR CHANGES TO SPRINKLERS, NOZZLES, RADIUS AND ARCS AS REQUIRED TO PROVIDE 100% COVERAGE TO ALL LANDSCAPE AREAS AND PREVENT OVER SPRAY ONTO BUILDINGS OR HARDSCAPED SURFACES.

4. CONTRACTOR IS TO INSTALL 120 VOLT ELECTRICAL POWER TO THE IRRIGATION CONTROLLER IN ROOM 110 MECH/ELEC ROOM ON THE SOUTH WALL, WEST END. CONTRACTOR IS TO INSTALL ALL ELECTRICAL IMPROVEMENT IN COMPLIANCE WITH ALL CEC CODES. SEE ELECTRICAL PLANS AND INSTALL CONDUITS AS REQUIRED TO CONTROLLER FOR LOW VOLTAGE CONTROL WIRING AND GROUNDING WIRES AS REQUIRED TO ADJACENT LANDSCAPE AREA. CONTRACTOR TO COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED.

5. CONTRACTOR IS TO REMOVE ALL VEGETATION AND SHRUBBERY WHERE NEW IMPROVEMENTS ARE SHOWN. REMOVE ROOT SYSTEMS AS REQUIRED TO A MINIMUM DEPTH OF 24" BELOW GRADE FOR SHRUBS AND TREES. REGRADE TURF AREAS 1" BELOW ADJACENT CONCRETE SIDEWALKS AND CONTOUR GRADES TO INSURE POSITIVE DRAINAGE. CONTRACTOR IS TO REMOVE ALL VEGETATION, GREEN WASTE AND DEBRIS OFF SITE AT NO ADDITIONAL COST TO THE DISTRICT. ALL PLANTERS ARE TO HAVE A POSITIVE SLOPE AWAY FROM BUILDINGS (MIN. 2% SLOPE).

Water Usage Chart - MAWA vs. ETWU	
MAWA= (Et_o) x (0.62) x [(0.45 x LA) + (1.0 - 0.45) x SLA)] = (52.1) x (0.62) x [(0.45 x 1,283)] = 18,650 gallons per year	
ETWU (**Hydrozone #1 - Low - Bubblers**) ETWU= (Et_o) x (0.62) x [((PF) x (HA)) / (IE)] = (52.1) x (0.62) x [((0.25) x (1,283)) / (0.81)] = 12,792 gallons per year	
TOTAL ETWU (Sum of Hydrozone 1) = 483,427 gallons per year	
MAWA > ETWU 18,650 gallons > 12,792 gallons ✓	

Hydrozone (HZ)	Plant Water Use Req.	Plant Factor (PF)	Hydrozone Area (sq ft) (HA)	Zone or Valve Numbers	Irrigation Method	Percent of Landscape Area	Irrigation Efficiency (IE)
1	**LOW**	**0.25**	1,283	**All Valves**	**Bubbler**	**100%**	**0.81**
		Sum	1,283				

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AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	05.05.23

REVISIONS

No	Date	Item

LANDSCAPE & IRRIGATION NOTES

L2.01

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

FM 91 1436

ENCROACHMENT PERMIT

DOT TR-0120 (REV 05/2023)

Permit No.
06-23-N-MC-0662

In compliance with your application of December 15, 2023

Dist/Co/Rte/PM
06/TUL/190/PM 31.9

Reference Documents:

- ☐ Utility Notice No. _____ of _____
- ☐ Agreement No. _____ of _____
- ☐ R/W Contract No. _____ of _____
- ☐ Project code (ID): _____ CFC #: _____
- ☒ Applicant's Reference/ Utility Work Order No. N/A

Permit Approval Date
January 10, 2024

Performance Bond Amount (1)	Payment Bond Amount (2)
$0	$0

Bond Company
$ N/A

Bond Number (1)	Bond Number (2)
$ N/A	$ N/A

TO:

County of Tulare
C/O: Mark V Fossen
2637 W. Burrel Ave. Suite
200 Visalia, CA 93291

, PERMITTEE

and subject to the following, PERMISSION IS HEREBY GRANTED to:
Enter upon State Right of Way of State Route 190 in Tulare County at Post Miles 31.9. Work shall include the following: Utility connections for a new library building which include a 4" PVC sewer line, 1" water, cable/phone, and electric services. All utilities are to be open trench/ backfill/ patch. The work will include the reconstruction and relocation of the drive approach, and the reconstruction of the sidewalk at the front of the lot adjacent to Highway 190. All work within the State Right of Way shall be done by current State Standard Plans and Specifications, 2014 California MUTCD, all General, Special, and District Provisions, and per attached accepted plans. NOTIFICATIONS: Unless waived by the Caltrans Inspector, a preconstruction meeting is required. Notify Caltrans Inspector Brad Bouphavong at (559) 281-1244 (cell) at least seven (7) working days before starting work in the State Right of Way. Notify Caltrans Electrical Supervisor Luis Campos Lopez at (559) 688-4896 (cell) at least ten (10) working days before excavating to request the location and marking of Caltrans underground facilities and provide requirements for the protection of underground signal and lighting circuits. Contact USA [Underground Service Alert] at 811. USA does not locate Caltrans facilities.

THIS PERMIT IS NOT A PROPERTY RIGHT AND DOES NOT TRANSFER WITH THE PROPERTY TO A NEW OWNER.

The following attachments are also included as part of this permit (check applicable):

- ☒ YES ☐ NO General Provisions
- ☐ YES ☒ NO Utility Maintenance Provisions
- ☒ YES ☐ NO Storm Water Special Provisions
- ☒ YES ☐ NO Special Provisions
- ☐ YES ☒ NO A Cal-OSHA Permit, if required: Permit No. _____
- ☐ YES ☒ NO As-Built Plans Submittal Route Slip for Locally Advertised Projects
- ☐ YES ☒ NO Storm Water Pollution Protection Plan

In addition to fee, the permittee will be billed actual costs for:

- ☒ YES ☐ NO Review
- ☒ YES ☐ NO Inspection
- ☒ YES Field Work *(if any Caltrans effort expended)*

As-built Plans are Required

☐ YES ☒ NO

☐ YES ☒ NO The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is completed before July 9, 2024
This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.
No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

CC:
#1: BRADLEY B BOUPHAVONG
#2: JOEL S MARTIN
#3: LUIS CAMPOSLOPEZ
#4:

APPROVED:

Diana Gomez, District Director

BY

Mohamed Amin

MOHAMED M AMIN, District Permit Engineer

ADA Notice This document is available in alternative accessible formats. For more information, please contact the Forms Management Unit at (279) 234-2284, TTY 711, in writing at Forms Management Unit, 1120 N Street, MS-89, Sacramento, CA 95814, or by email at Forms.Management.Unit@dot.ca.gov.

ME

GENERAL PROVISIONS: The work included in this permit shall be accomplished in strict accordance with ALL items of the attached "Department of Transportation Encroachment Permit General Provisions **TR-0045**."

STANDARD PLANS AND SPECIFICATIONS: The use of the wording "Standard Plans" and "Standard Specifications" in this permit refers to the most current editions of State of California, Department of Transportation, **"Standard Plans" and "Standard Specifications"** and can be accessed by the link on the Department's web page, **www.dot.ca.gov** .

EXCEPTION: All references to the State of California, Department of Transportation, **"Standard Specifications"** within this permit **excludes** all sections pertaining to Measurement and Payment.

CONTRACTOR(S)/SUBCONTRACTOR(S): The owner (Permittee) must obtain an encroachment permit. Prior to performing the authorized encroachment work by someone other than the Permittee, the Permittee must submit a completed and signed Contractor Authorization Form (Form TR-0429) with information of all the Permittee's prime contractors who will be performing work under the permit. Permittee must also have all prime contractors complete their portion of the form and submit the final signed forms to Caltrans at or prior to the preconstruction meeting. All contractors that are under contract directly with the permittee are considered prime contractors. Subcontractors under the prime contractors are not required to complete the form TR-0429.

For annual maintenance permits, applicant may submit the list of all the contractors that are identified to be working under that permit at the time of permit submittal and the list will be included in the permit when issued. If Permittee wants additional contractors that are not on the list to work under the permit after the permit has been issued, applicant must submit signed form TR-0429 (with signatures from both the permittee and the new prime contractors). This exception is made for annual maintenance permits only, considering the long list of contractors that may work under the permit, and must not be used as an alternate to the form on other permits.

A contractor can submit a rider permit request as an authorized agent on behalf of the Permittee, along with the submittals needing review and approval. A letter of authorization from the Permittee, authorizing the contractor to act on behalf of the Permittee, must also be submitted with the rider request. The contractor submittals to be made via rider permit for Caltrans's review and approval prior to initiating any construction activities.

Work may not start until the documents listed below have been submitted to, reviewed by, and approved by Caltrans. This permit is conditionally issued without the documents listed below, at the request of the Permittee. The Permittee acknowledges and will ensure that the following documents will be submitted to Caltrans for review and approval prior to scheduling authorized work/activities:

- **Traffic Control Plans**

The Permittee must ensure adequate time is planned into the project schedule to enable these submittals to be reviewed by Caltrans. Reviews of the rider applications submitted will involve same timelines pursuant to Streets and Highways Code Section 671.5 and are also contingent on the quality of submittals. No work may begin until all submittals are approved.

Non–compliance with this provision may result in Caltrans taking actions including but not limited to canceling this permit without further notice, requiring bonds, and/or not providing such conditional approvals for the Permittee on future projects.

A traffic control company possessing a current Caltrans District 06 annual "blanket" traffic control permit may place traffic control devices in conventional highway right of way without additional permits or fees.

Permittee must provide a copy of this encroachment permit and any rider permits to all the contractors who will perform work on Permittee's behalf. The contractors must always have a copy of the encroachment permit on-site while performing work in the State's right of way. **Failure to present these documents to authorized State representatives is grounds for suspension of this Permit.**

HAZARDOUS MATERIALS and HAZARDOUS WASTE MANAGMENT: All construction/materials/water/ excess soils resulting from the proposed work shall be handled per attached "State of California - Department of Transportation Hazardous Materials and Hazardous Waste Management Special Provisions TR-0408".

SAFETY CLOTHING: All personnel working within the State right of way shall wear protective safety clothing approved by the new ANSI guidelines.

PEDESTRIAN SAFETY: Unobstructed access shall be provided continuously to pedestrian traffic. When the work area encroaches upon a sidewalk, walkway, or crosswalk area, special consideration must be given to pedestrian safety. Pedestrian detours, protective barricades, fencing, handrails and/or bridges, together with warning and guidance devices and signs shall be used as necessary to provide a safe and well-defined passageway for pedestrians, especially blind and other physically handicapped.

AMERICAN DISABILITIES ACT (ADA): Any existing ADA curb ramp return within the State's right of way damaged/disturbed during construction shall be brought to current State Standards as directed by the Caltrans Inspector. Permittee or Contractor shall remain responsible for all ADA compliance, including, but not limited to, the restoration of damaged sidewalk or driveway approach panels.

TEMPORARY SAFTEY NETTING: Permittee is required to set up temporary safety netting and clearance poles for aerial crossings over Freeway in accordance with "Department of Transportation Encroachment Permit H-Support Diagram for Aerial Crossings Guideline TR-0108."

ROLLING TRAFFIC BREAKS ("BLOCKS") or INTERMITTENT CLOSURE (IC): Rolling Traffic Breaks permit shall be accomplished in strict accordance to attached "**Department of Transportation Encroachment Permit Rolling Breaks Special Provisions TR-0407 (Rev. 07/2021)**". **Work requiring rolling traffic breaks shall be conducted per attached Lane Requirements Chart(s) (LRC(s)) for allowed days and times for installing and/or removing any overhead facilities. Note the legend and remarks also.** The overhead facility shall not be performed in rainy, foggy or other inclement weather and not installed/removed over moving traffic.

Permittee must arrange a meeting with the California Highway Patrol (CHP) and the Caltrans inspector, **at least two (2) weeks** prior to the start of work to determine the appropriate number of CHP vehicles required for planned traffic breaks. A minimum of two (2) CHP vehicles in each direction are required. One CHP vehicle will be conducting the planned traffic break and the second CHP vehicle will be stationed on the shoulder with its rear emergency lights on to caution motorists at the end of the queue. Additional CHP vehicles may be required if determined to be necessary by the CHP. It is the responsibility of the permittee to make arrangements with the CHP for a rolling traffic break. A Caltrans inspector shall be on site during the transfer, installation, removal of the aerial facility.

The duration of a planned traffic break MUST NOT exceed ten (10) minutes. If additional traffic breaks are required, traffic backup must be cleared before performing another break.

The permittee must provide a minimum of one (1) Portable Changeable Message Sign (PCMS). Additional PCMSs must be provided if required by Caltrans permit inspector or CHP. PCMS(s) must be placed at the locations directed by the CHP and be moved or relocated as needed. Each PCMS must comply with section 12-3.32 of the Caltrans Standard Specifications. PCMS(s) must be removed promptly after the planned traffic break is completed. Message to be displayed on the PCMSs must be coordinated with Caltrans inspector and CHP.

TRAFFIC CONTROL AND LANE/SHOULDER CLOSURES: Work requiring traffic control and lane/shoulder closures shall be conducted between 9:00 am and 3:00 pm, Monday through Friday or as otherwise authorized per attached Lane Requirements Chart(s) (LRC(s)) for allowed days and times. Note the legend and remarks also. The PERMITTEE SHALL provide at least one paved traffic lane open in each direction of travel. The maximum permitted length of closure is one (1) mile. No more than one closure shall be allowed within any five (5) miles segment per direction of closure. Lane closures are allowed only when Contractor operations are actively in progress. Lane closures are not permitted during non-working hours. No two consecutive intersections shall be completely closed at the same time. Except for installing, maintaining and removing traffic control devices, any work encroaching within 3 feet of the edge of a travel lane for areas with a posted speed limit below 45mph, or 6 feet of the edge of a travel lane, for areas with a speed limit posted at 45mph or higher, shall require closing of that travel lane. Any work encroaching within 6 feet of the edge of the shoulder, shall require closing of that shoulder.

The PERMITTEE shall notify the Caltrans inspector and obtain approval of, all traffic control, lane closures or detours, **at least seven (7) WORKING DAYS** prior to setting up of any traffic control.

Lane and shoulder closures shall be conducted in accordance with the applicable portions from the "**California Manual on Uniform Traffic Control Devices (CA MUTCD) for Streets and Highways (2014)**" and the latest editions of the "**State of California Department of Transportation Standard Plans and Specifications"**. The California MUTCD can be found at the following link: **http://www.dot.ca.gov/hq/traffops/engineering/mutcd/index.htm**

Notification of temporary lane/shoulder closures or traffic detours shall be emailed **WEEKLY** to the **District 6 Lane Closure Manager (LCM),** D6Permit.LCS@dot.ca.gov and Caltrans inspector, for consideration, using the attached District 6 **Closure Request Form** (**CRF**) with Permit No**. 0623-NMC-0662** referenced.

Notification shall be made by Monday, 5:00 PM, the week prior to the proposed closure.

If the request is approved, you will receive the required **Closure ID Numbers to be called in**, on the date(s) of the closure, to the District TMC @ **(559)445-6166.** The following Codes shall be used when reporting the intended closure status to the **TMC**:

For a stationary closure on a traffic lane, use code:
1. "**10-97"** immediately **before** you place the 1st cone on the traffic lane
2. "**10-98"** immediately **after** you remove all the cones from the traffic lane

For a stationary closure on the shoulder, use code:
1. "**10-97"** immediately **before** you place the 1st cone after the last advance warning sign
2. "**10-98"** immediately **after** you remove the last cone before the advance warning signs

Use "**10-22**" code: to **CANCEL** an Approved Closure.

If the request is rejected, the PERMITTEE will be notified. PERMITTEE may clarify, revise and resubmit their request by consulting with the Caltrans inspector.

The full width of the traveled way shall be opened for use by public traffic on Saturdays, Sundays, designated legal holidays, and Special days, the day preceding designated legal holidays, and when construction operations are not actively in progress. When a designated holiday falls on a Sunday, the following Monday shall be a designated legal holiday. When November 11th falls on a Saturday, the preceding Friday shall be a designated legal holiday.

NO WORK SHALL BE ACCOMPLISHED ON, OVER OR NEAR THE HIGHWAY TRAVELED WAYS OR SHOULDERS DURING INCLEMENT WEATHER CONDITIONS (Fog, Rain, etc.)

The PERMITTEE shall furnish all necessary safety devices and measures, including Portable Changeable Message Signs (PCMS), flagmen and flashing arrow boards, to allow safe passage of traffic through the work area at all times as required in **Item 14 Public Traffic Control** of the attached General Provisions (TR-0045). When traffic cones or delineators are used to delineate a temporary edge of traffic lane, the line of cones or delineators shall be considered the edge of the traffic lane. At no time, will the width of an existing lane be reduced to less than 10 feet.

CONSTRUCTION AREA SIGNS: Construction area signs shall be installed at the locations shown on the accepted Traffic Control Plans or as directed by the Caltrans inspector and shall conform to the **California MUTCD (2014)** and the **Standard Specification Section 12: Temporary Traffic Control.**

SURVEY MONUMENTS: In addition to the requirements of **Section 5-1.36 PROPERTY AND FACILITY PRESERVATION** of the Caltrans Standard Specifications, and Section 8771 of the Business and Professions Code, the PERMITTEE shall physically inspect the work site and locate survey monuments prior to commencement of work. Monuments shall be referenced or reset in accordance with the requirements of the Business and Professions Code. If feasible, monuments shall not be set within the traveled way.

All monuments that must be set or perpetuated in paved surfaces, shall be constructed in accordance with **Section 78-2 SURVEY MONUMENTS** of the Standard Specifications and **Caltrans Standard Plan A74, type determined by the District Surveys Engineer,** or equal with prior approval from the District Surveys Engineer. Copies of Corners Record filed or Record of Surveys recorded in compliance with the Business and Professions Code shall be forwarded to the District Surveys Engineer.

STORM WATER AND NON-STORM WATER POLLUTION: The PERMITTEE shall control the movement of sediments and pollutants within or leaving the State's right of way. Water pollution control shall conform to Standard Specification **Section 13 "WATER POLLUTION CONTROL**", the Caltrans "Construction Site Best Management Practices (BMPs) Manual", and the Caltrans "Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual" and attached Caltrans Storm Water Special Provisions for Minimal or No Impact, **TR-0400.**

The Manuals are available on the Internet at: **www.dot.ca.gov/hq/construc/stormwater/manuals.htm**

The PERMITTEE shall be responsible for the costs and any liability imposed by law as a result of the PERMITTEE's failure to comply with the requirements set forth in this section, including, but not limited to, compliance with the applicable provisions of the referenced Manuals and Federal, State and local regulations. For the purposes of this paragraph, costs and liabilities include, but are not limited, to fines, penalties and damages whether assessed against the State or Permittee, including those levied under the Federal Clean Water Act and the State Porter Cologne Water Quality Act.

DRAINAGE: Any change in existing drainage patterns, whether occasioned by increase or diversion, and the cost of any damage, repair or restoration of the State highway right of way shall be the responsibility of the Permittee. Existing State Highway drainage shall be maintained.

DUST CONTROL: Permittee shall comply with Standard Specification Section **10-5**, Dust Control.

HIGH & LOW RISK UNDERGROUND FACILITIES: No machine excavation may be made within 4 feet of High and Low Risk Underground facilities unless those have been located to within 6 inches both vertically and horizontally by hand digging. Location of underground facilities may only be accomplished by hand excavation after obtaining written permission from the underground facility owner. The PERMITTEE shall provide the Caltrans inspector with copies of such permission. The owner of a high or low risk underground facility shall be responsible for determining the adequacy of the field location of the underground facility by the PERMITTEE and the required clearances for machine excavation, or other

requirement to expose, protect or relocate. The costs of such field location, exposure, protection or relocation shall be borne by PERMITTEE.

Special attention is directed to of **Section 5-1.36 PROPERTY AND FACILITY PRESERVATION** and **Section 5-1.36D Nonhighway Facilities** of the Standard Specifications. It shall be the Contractor's responsibility, pursuant thereto, to ascertain the location of those underground improvements or facilities which may be subject to damage by reason of the Contractor's operations.

POLES, WIRES, CABLES: Poles, wires, cables and overhead structures within the State right-of-way shall be installed or removed in accordance with the applicable portions within the 2015 State of California Department of Transportation Standard Specifications and the Caltrans Encroachment Permit Overhead Utility Provisions **TR-0162, Sections OH1 through OH11.**

Special attention should be given to:
OH6 ANCHOR: No anchor shall be placed closer to the traveled way than the pole itself.
OH7 REMOVE OLD POLES, GUY, and STUBS: The entire length of poles and stubs shall be removed from the ground and the holes backfilled. Guy rods shall be removed

PIPES, CONDUITS, AND UNDERGROUND FACILITIES: Work associated with pipes, conduits, and underground facilities within the State's right of way shall be installed in accordance with the latest editions and applicable portions of the Standard Plans and Specifications and the attached "State of California - Department of Transportation **Encroachment Permit Underground Utility Provisions TR-0163**."

UTILITY RELOCATIONS: If existing public or private utilities conflict with the PERMITTEE's work, the PERMITTEE will make necessary arrangements with the owners of such utilities for their protection, relocation, or removal. The PERMITTEE shall inspect the protection, relocation or removal of such facilities. Total costs of such protection, relocation, or removal shall be borne by the PERMITTEE in compliance with the terms of the Highway Encroachment Permits, Case Law, Public Utility Regulations, and Property Rights. The PERMITTEE shall require any utility company performing relocation work in the State's right-of-way to obtain a State Encroachment Permit prior to the performance of said relocation work. Any relocated utilities shall be correctly located and identified on the "AS-BUILT" set of plans.

FUTURE MOVING OF INSTALLATIONS: PERMITTEE understands and agrees to relocate a permitted installation upon notice by the Department, unless under prior property right/agreement. PERMITTEE shall comply with said notice at their sole expense.

EARTHWORK: Earthwork within the State right-of-way shall comply with Sections 19-1 GENERAL, 19-2 ROADWAY EXCAVATION, 19-3 STRUCTURE EXCAVATION AND BACKFILL, 19-5 COMPACTION and 19-6 EMBANKMENT CONSTRUCTION of Section 19 in the latest edition of the Standard Specifications.

No excavation shall be left open after working hours. At the end of each working day any excavation that leaves a drop off of more than 0.15 feet in depth within 12 feet of the edge of traffic lane, the excavation or drop off shall be sloped at a maximum 4:1 (horizontal: vertical); backfilled or covered with a steel plate with sufficient thickness to support legal truck traffic and in accordance with the attached "State of California - Department of Transportation, Encroachment Permit Steel Plate Bridging Utility Provisions **TR-0157 (REV 04/2018)".**

Excavated materials shall be placed at locations to cause the least amount of obstruction to traffic. Excavated material, not to be used for backfilling, shall be removed from the State's right of way at the end of each working period or as directed by the Caltrans inspector. Any open trenches or holes must be kept covered when not in use to prevent accidental trapping of wildlife. Ensure no wildlife is trapped inside the excavated area prior to covering or backfilling.

ACCESS-RESIDENTIAL AND BUSINESS: Unobstructed access shall be provided continuously to local residential and commercial driveways and other residential and commercial access points fronting the State's right of way. Whenever necessary, trenches and excavations shall be bridged to permit an unobstructed flow of traffic. Steel plate bridging shall conform in accordance with the attached "State of California - Department of Transportation, Encroachment Permit Steel Plate Bridging Utility Provisions **TR-0157 (REV 04/2018)".**

TRENCHING AND BACKFILL: Trenching and backfilling for installation of pipe, fittings and appurtenances and electrical facilities, including removing and replacing improvements, shall conform to the details shown on the plans, and the provisions in Section 86-2.01, Excavating and Backfilling, and Section 86-2.02, Removing and Replacing Improvements**,** of the Caltrans latest edition of the Standard Specifications. Trenching and backfill not specifically covered by these provisions shall be governed by applicable provisions of Section 19 - Earthwork of Caltrans latest edition of the Standard Specifications.

PAVEMENT RESTORATION: Existing highway pavement edge to be joined shall be saw cut to achieve a smooth, straight, square edge, cleaned, and coated with asphaltic emulsion (paint binder) prior to placement of new permanent AC pavement. The Caltrans Inspector at his discretion may require additional pavement removal or grinding to achieve smooth transition. The new pavement shall be made with HMA Type "A" AC, ¾-inch aggregate size meeting requirements of 2018 Standard Specifications Section 39 ASPHALT CONCRETE. The thicknesses of AC permanent pavement repairs and underlying base course shall match existing.

HOT MIX ASPHALT: Type A Hot Mix Asphalt (HMA) shall be furnished and placed in accordance with the applicable portions of Section 39-2 HOT MIX ASPHALT of the Standard Specifications. Existing pavement edge being tied into shall be first saw cut to achieve a smooth, straight, and square edge with no raveling or cracking, and all edges of existing pavement shall be cleaned and a coat of Asphaltic Emulsion (Paint Binder) shall be applied prior to the placement of permanent paving. The new pavement shall consist of Type A HMA with binder PG 64-10 and 3/4-inch Maximum, Medium Gradation, and meet the requirements of with the applicable portions of Section 39-2 HOT MIX ASPHALT of the Standard Specifications. HMA STRUCTURAL SECTION: Unless otherwise specified by the Caltrans Inspector, the minimum Structural Section shall be a 0.60- foot (7-inch) layer of Type A Hot Mix Asphalt (HMA) over a 0.70-foot (8-inch) layer of Class 2 Aggregate Base compacted to ninety five percent (95%) within 2.5 feet of finished grade over backfill material compacted to ninety percent (90%). Excavated material may be used as backfill provided it meets the criteria specified in Section 19-3.02 of the Standard Specifications

COMPACTION: Compaction shall be in accordance with the Section 19 of the Standard Specifications and has a relative compaction of 95%. Compaction Test Method shall be used as per the Section 6 of Standard Specifications. Test results shall be supplied to the Caltrans Field Representative before paving is started and/or as requested by the Caltrans Field Representative Pipe installation by open-trench method.

AGGREGATE BASE: Shall be furnished and placed in accordance with Sections 26 of the Standard Specifications, AGGREGATE BASES.

CONCRETE: All concrete within the State right of way shall conform to Section 90 of the Standard Specifications. Steel plates shall conform to the Encroachment Permit Utility Provisions TR-0157, and meet Caltrans minimum requirements such as thickness, dowels and coefficient of friction that equals or exceeds 0.35 if used within state right-of-way. Permittee shall provide a certificate of compliance for all material used in the state right-of-way. The Caltrans inspector shall have final discretion on whether plate requirements are being met by the PERMITTEE. **NO CONCRETE SHALL BE POURED UNTIL FORMS HAVE BEEN INSPECTED AND APPROVED BY THE CALTRANS INSPECTOR.**

CONCRETE CURBS, GUTTERS, and SIDEWALKS: Proposed work shall be in accordance with the requirements for constructing curbs, gutters and sidewalks in Standard Specification Section 73

CONCRETE CURBS AND SIDEWALKS. Existing Portland cement concrete curb, gutter driveway and sidewalk to be removed shall be saw cut full depth at nearest score line and removed to a neat line.

SIGNS, STRIPING, AND PAVEMENT MARKINGS: All pavement striping and markings within the State's right of way shall be placed in accordance with State Standard Specifications Section 84-2, TRAFFIC STRIPES AND PAVEMENT MARKINGS, Section 81-3, PAVEMENT MARKERS, and State Standard Plans A20A, A20B, A24B, A24D, A24E, PAVEMENT MARKERS AND TRAFFIC LINES. Installation of signs shall be consistent with State Standard Specifications Section 82, SIGNS AND MARKERS, and State Standard Plans RS1 and RS2, ROADSIDE SIGNS. Signs shall be placed so that they do not obstruct, and are not obstructed by, other Highway signs or driveways.

ELECTRICAL DAMAGE: Any damage to signal detection/lighting facilities shall be replaced in kind by a licensed electrician within 24 hours of damage or as directed by the Caltrans inspector/representative. Splicing of damaged facilities will not be allowed.

DAMAGES: PERMITTEE shall be responsible for locating/protecting all underground facilities that may be in work areas. Any damages to private or public facilities shall be immediately reported to the Caltrans inspector, and repaired or replaced to Caltrans Standards, and/or as requested by the facility owner, at the expense of the PERMITTEE. The PERMITTEE shall be responsible for locating and protecting all underground facilities that may be in the work areas. Before any excavation, the Permittee shall call USA (UNDERGROUND SERVEICE ALERT) at 811. USA does not locate Caltrans facilities.

Caltrans does not subscribe to USA, and USA does not locate Caltrans underground circuits. Permittee must request location and marking of Caltrans underground facilities by Caltrans prior to start of any excavation in State's right of way. Refer to notification requirements on the first page of this permit for information on how to contact the Caltrans underground locater.

TIME EXTENSION REQUEST (RIDER PERMIT): If time extension is necessary, a request for time extension and the accompanying attachments must be made a minimum of two (2) weeks prior to completion date stated on face of permit. If work has not been started before completion date, the permit will be voided. Failure to comply with rules and regulations stated on permit will jeopardize future permit privileges.

Rider for time extensions must be requested by the Permittee and issued by Caltrans prior to the expiration date of the original Permit. If the Permit has expired the Permittee is required to stop all work and must obtain a new Permit.

CONFLICT WITH STATE CONTRACTS: If for any reason this work comes in conflict with work in progress under State Contract and both operations cannot be accomplished at the same time, the State Contract work shall take precedence.

If at any time the PERMITTEE's installation becomes in conflict with any expansion or improvements of the State highway facilities, the PERMITTEE will relocate the facilities as required by Caltrans at the expense of the PERMITTEE and with no cost or other claims to Caltrans.

PERMIT FEE CHARGES: Permit deposit fee was used for review and preparation of this parent permit. No hours were estimated for the hours of inspection anticipated to be used during construction. PERMITTEE will be billed for actual inspection time at the rate of $162.00 per hour.

AS-BUILT PLANS: AS-BUILT plans are required upon completion of all work and shall conform to the requirements as outlined under Item 22 of the attached **"**State of California - Department of Transportation, Encroachment Permit General Provisions TR-0045". **NO FINAL INSPECTION WILL BE PERFORMED UNTIL THE DEPARTMENT IS IN RECEIPT OF "AS-BUILT" PLANS**

MISCELLANEOUS: Permission is granted to access the work areas from the State right of way. No vehicle or equipment shall be stored overnight within the State's right of way; it shall be removed immediately at the completion of the day's work. Refueling of vehicle or equipment within the State's right of way is strictly prohibited. Equipment and vehicles may be parked within the State's right of way. However, at no time shall the equipment or vehicles be parked at any position near the traveled way, which could cause a traffic or potential traffic problem. Any work not covered by conditions of this permit shall be completed in accordance with current Caltrans Standards as directed by the Caltrans inspector.

Any change in the scope of work from the approved plans within State's Right-of-way will require an application for that change. The issuance of an Encroachment Permit Rider prior to commencing any changed work within the State's Right-of-way will be required.

PERMITTEE or contractor failing to comply with the provision herein shall be subject to removal from the Right of Way and shall be grounds for revocation of this Permit and/or suspension from performing future work in the State Highway Right of Way.

INDEMNIFICATION OF STATE: The Permittee is responsible for all incidents arising out of the exercise of this Permit, and will defend, indemnify and protect Caltrans against all claims of every type and description alleged to have resulted from the permitted activity.

ACCEPTANCE OF CONDITIONS: Beginning work on this permit constitutes full agreement and acceptance of all conditions, terms and provisions contained herein, attached hereto, or incorporated by reference.

INSPECTION AND APPROVAL: All work is subject to monitoring and inspection. Upon completion of work, PERMITTEE must request a final inspection for acceptance and approval by the Department. Permittee must not give final construction completion approval to its contractor, until final acceptance and approval is obtained from the Department. Any work not covered by conditions of this permit shall be completed in accordance with current Caltrans Standards as directed by Caltrans inspector.

NOTICE OF COMPLETION: Immediately upon completion of the permitted work; described herein, the PERMITTEE shall complete the attached Notice of Completion (NOC) and email the NOC to the respective Permit Inspector or a hard copy can be mailed to the Fresno Permits Office, 1352 West Olive Avenue, Fresno, CA 93728.

TULARE COUNTY LIBRARY

SPRINGVILLE BRANCH
35707 HIGHWAY 190 , SPRINGVILLE , CA 93265

These plans have been accepted for Encroachment Permit No. 0623-NMC-0662 by ME on 1/10/2024

SHEET INDEX

69 SHEETS

Architectural Sheets — 29 SHEETS

Civil Sheets — 6 SHEETS

Structural Sheets — 12 SHEETS

Mechanical Sheets — 4 SHEETS

Plumbing Sheets — 3 SHEETS

Electrical Sheets — 15 SHEETS

DIRECTORY

Owner

COUNTY OF TULARE CAPITAL PROJECTS
2637 W BURREL AVENUE, SUITE 200
VISALIA, CA 93291
TULARE COUNTY
ATTN: MARK VAN FOSSEN, CAPITAL PROJECTS COORDINATOR III
PHONE: (559) 205-1140 / CELL (559) 936-8609

Architect

AP ARCHITECTS
3434 TRUXTUN AVENUE, SUITE #240
BAKERSFIELD, CA 93301
PHONE: (661) 327-1690
FAX: (661) 327-7204
ATTN: JOSE VARGAS

Structural Engineer

ANACAPA ENGINEERING AND DESIGN, INC.
9100 MING AVENUE, SUITE #101
BAKERSFIELD, CA 93311
PHONE: (661) 332-7087
FAX: (661) 327-7204
ATTN: RAMON SANCHEZ, PE

Mechanical Engineer

BRUMMEL MECHANICAL ENGINEERING, LLP
1403 HIGUERA STREET
SAN LUIS OBISPO, CA 93401
PHONE: (805) 543-6636
ATTN: KEITH BRUMMEL, PE; BRENT MAY, PE

Electrical Engineer

ROSE SING EASTHAM AND ASSOCIATES
131 S. DUNWORTH STREET
VISALIA, CA 93292
PHONE: (559) 733-2671
ATTN: STEVE EASTHAM, PE

ABBREVIATIONS

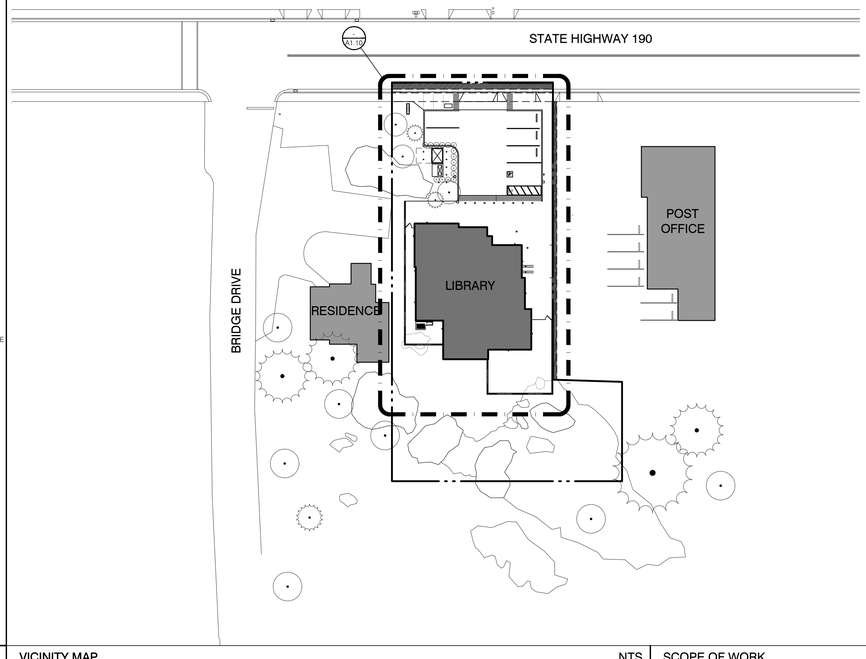
AB	ANCHOR BOLT	EJ	EXPANSION JOINT	MC	MEDICINE CABINET	SCHED	SCHEDULE
AC	ASPHALT CONCRETE, AIR CONDITIONING	ELEC	ELECTRIC(AL)	MDO	MEDIUM DENSITY OVERLAY	SD	STORM DRAIN
		ELEV	ELEVATION	MECH	MECHANIC(AL)	SF	SQUARE FOOT/STOREFRONT
ACC	ACCESS CONTROL	EPC	ELECTROSTATIC POWDER COATING	MEP	MECHANICAL, ELECTRICAL, PLUMBING	SFRM	SPRAYED FIRE-RESISTIVE MATERIAL
ACOUS	ACOUSTICAL						
ADJ	ADJACENT	EPS	ELECTROSTATIC PAINTING SYSTEM	MET	METAL	SG	SAFETY GLAZING (FULLY TEMPERED)
AFF	ABOVE FINISH FLOOR			MFR	MANUFACTURER(R)		
AGG	AGGREGATE	EQ	EQUAL	MIN	MINIMUM	SHTG	SHEATHING
ALT	ALTERNATE	EQUIP	EQUIPMENT	MIR	MIRROR	SHT(S)	SHEET(S)
ALUM	ALUMINUM	ES	ELASTOMERIC SEALANT	MISC	MISCELLANEOUS	SIM	SIMILAR
ANOD	ANODIZED	EX/EXIST	EXISTING	MO	MASONRY OPENING	SJ	SEALED JOINT
APPROX	APPROXIMATE	EXH	EXHAUST	MRT	MOLDED RUBBER FLOOR TILE	SJF	SAWN JOINT FILLED
ARCH	ARCHITECT (URAL)	EXT	EXTERIOR	MT	METAL THRESHOLD	SP	SOLID POLYMER
AS	ADJUSTABLE SHELF(S)	EW	EACH WAY	MTD	MOUNTED	SPEC (S)	SPECIFICATION(S)
B	BLANK CABINET PANEL	F, (F)	FUTURE	MTL	MATERIAL	SQ	SQUARE
BD	BOARD	FCO	FLOOR CLEANOUT	N	NORTH	SS	STAINLESS STEEL
BLK	BLOCK	FD	FLOOR DRAIN	NAT	NATURAL	STD(S)	STANDARD(S)
BLDG	BUILDING	FDN	FOUNDATION	NIC	NOT IN CONTRACT	STL	STEEL
BLKG	BLOCKING	FEX	FIRE EXTINGUISHER	NO	NUMBER	STOR	STORAGE
BM	BEAM	FG	FINISH GRADE	NOM	NOMINAL	STRUCT	STRUCTURAL
BOT	BOTTOM	FIN	FINISH(ED)	NTS	NOT TO SCALE	T	TEMPERED
BUR	BUILT UP ROOF(ING)	FLR	FLOOR(ING)	OBS	OBSCURE	T/M/B	TOP/MIDDLE/BOTTOM
CAB	CABINET	FLOUR	FLOURESCENT	OC	ON CENTER(S)	TAC	TOP OF ASPHALT CONCRETE
CEM	CEMENT	FOC	FACE OF CONCRETE	OD	OUTSIDE DIAMETER	TC	TOP OF CONCRETE
CI	CAST IRON	FOF	FACE OF FINISH	OFRD	OVERFLOW ROOF DRAIN	TER	TERRAZZO
CJ	CONTROL JOINT	FOM	FACE OF MASONRY	OH	OVERHEAD	TH	THICK(NESS)
CJF	CONTROL/CONSTRUCTION JOINT FILLED	FOS	FACE OF STUDS	OPNG	OPENING	TOC	TOP OF CONCRETE
		FOIC	FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR	PA	PLANTING AREA	TOS	TOP OF SEAT
CL	CENTERLINE			PFR	POLYURETHANE FOAM ROOFING	TOW	TOP OF WALL
CLG	CEILING	FOIO	FURNISHED BY OWNER AND INSTALLED BY OWNER	PJ	POUR JOINT	TP	TOP OF PAVING
CLR	CLEAR(ANCE)/COLOR			PL	PROPERTY LINE	TV	TELEVISION
CMU	CONCRETE MASONRY UNIT	FRMG	FRAMING	PLAM	PLASTIC LAMINATE	TW	TOP OF WALK
CNTR	COUNTER	FRS	FIRE RETARDANT SEALANT	PLAS LAM	PLASTIC LAMINATE	TWP	TRANSLUCENT WALL PANEL
CO	CLEAN OUT	FS	FIXED SHELF	PLAS	PLASTER	TYP	TYPICAL
COB	CITY OF BAKERSFIELD	FTG	FOOTING	PLBG	PLUMBING	UCMT	UNGLAZED CERAMIC MOSAIC TILE
COC	CITY OF COALINGA	FURR	FURRED (ING)	PRC	POLYURETHANE ROOF COATING	UG	UNDERGROUND
COL	COLUMN	FV	FIELD VERIFY			UNO	UNLESS NOTED OTHERWISE
CONC	CONCRETE	GA	GAGE, GAUGE	P.O.T.	PATH OF TRAVEL	URI	URINAL
CONN	CONNECTION	GI	GALVINIZED IRON	PSF	POUNDS PER SQUARE FOOT	VCT	VINYL COMPOSITION FLOOR TILE
CONT	CONTINUOUS OR CONTINUE	GL	GLASS, GLAZING	PSI	POUNDS PER SQUARE INCH	VCTB	VINYL COVERED TACKBOARD
COP	CONTROL OPERATIONS PANEL	GS	GLAZING SIDE	PT	PRESSURE TREATED	VER	VERIFY
CPT	CARPET(ED)	GWT	GLAZED WALL TILE	PVMT	PAVEMENT	VERT	VERTICAL
CR	CARD READER	GYP	GYPSUM	PWD	PLYWOOD	VTS	VINYL TACK SURFACE
CSVB	COVED SHEET VINYL BASE	HB	HOSE BIBB	RA	RETURN AIR, RUBBER ACCESSORY	VWC	VINYL WALL COVERING
CTSK	COUNTER SINK	HC	HOLLOW CORE			W	WEST
CU	CONDENSER UNIT	HD	HEAVY DUTY	RASF	RUBBERIZED ASPHALT SHEET FLASHING	W/	WITH
d	PENNY (NAILS)	HDR	HEADER			WC	WATER CLOSET
D	DRAWER	HDBD	HARDBOARD	RASWD	RUBBER ASPHALT SHEET WATER PROOFING	WD	WOOD
DBL	DOUBLE	HDWD	HARDWOOD			WH/	WHERE
DEMO	DEMOLITION	HDWR	HARDWARE	RAD	RADIUS	WI	WROUGHT IRON
DET	DETAIL	HM	HOLLOW METAL	RD	ROOF DRAIN	W/O	WITHOUT
DF	DRINKING FOUNTAIN	HORIZ	HORIZONTAL	REF	REFRIGERATOR	WP	WATERPROOFING
DG	DECOMPOSED GRANITE	HT	HEIGHT	REFL	REFLECTED	WRB	WEATHER RESISTIVE BARRIER
DIA	DIAMETER	HVAC	HEATING/VENTILATING/ AIR CONDITIONING	REG	REGISTER	WT	WEIGHT
DIM	DIMENSION			REQ(S)	REQUIREMENT(S)	WWF	WELDED WIRE FABRIC
DIS	DISABLED	ID	INSIDE DIAMETER	REQ'D	REQUIRED	XFMR	TRANSFORMER
DL	DEAD LOAD	INFO	INFORMATION	REV	REVISION(S), REVISED		
DN	DOWN	INSUL	INSULATE (D), (ION)	RM	ROOM		
DS	DOWN SPOUT	INT	INTERIOR	RO	ROUGH OPENING		
DTL	DETAIL	JST	JOIST	ROW	RIGHT OF WAY		
DTR	DUCT THRU ROOF	JT(S)	JOINTS	RR	ROOF RAFTER		
DWG(S)	DRAWING(S)	K	KICKER	RS	REDUCER STRIP		
E	EAST	KS	KNEE SPACE	RSTA	RUBBER STAIR TREAD ACCESSORY		
EA	EACH	LAV	LAVATORY				
EDF	ELECTRIC DRINKING FOUNTAIN	LL	LIVE LOAD	RWB	RUBBER WALL BASE		
EF	EXHAUST FAN	LT	LIGHT	S	SOUTH		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MAX	MAXIMUM	SC	SOLID CORE		
		MB	MACHINE BOLT	17-01-11			

SYMBOLS

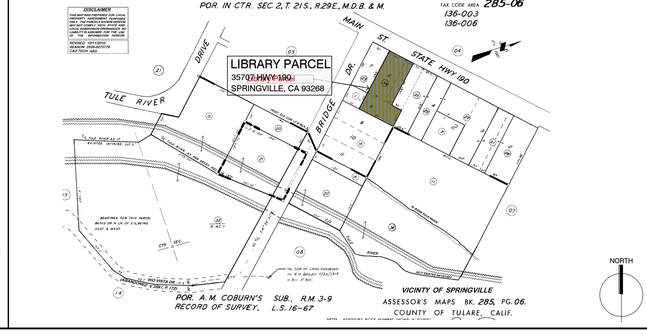
03	COORDINATE LINE
03 / A5.1	BUILDING SECTION NUMBER SHEET NUMBER
01 / A1.00	DETAIL NUMBER SHEET NUMBER
	ELEVATION, X REFERENCE OR DATUM
100	DOOR NUMBER
A	WINDOW LETTER(S)
1	REVISION NUMBER WITH CLOUD
01	ACCESSORY NUMBER, REFER TO ACCESSORY SCHEDULE
	COLUMNS - SIZE AS NOTED ON STRUCTURAL SHEETS
	FLUSH SURFACES THAT MEET
NIC	NOT IN CONTRACT BY OTHERS (NIC HAS TO BE WRITTEN WITH DASHED LINES)
04	KEYNOTE
2 1 / A1.1	WALL TYPE W/ LOCATION OF MULTIPLE LAYERS WH/ NOTED
RA#	REDUCER STRIP/FLOOR ASSEMBLY- SEE SCHEDULE
ES#	SEALANT DESIGNATION- SEE SCHEDULE
FRS#	FIRE RETARDANT SEALANT- SEE SCHEDULE
100 ELEC	ROOM REFERENCE
	WOOD FINISH
	WOOD CONTINUOUS
	WOOD BLOCKING
	PLYWOOD
	GYP BD
1 / A1.1	DETAIL NUMBER/LETTER SHEET NUMBER
	EARTH MATERIAL
	GRANULAR FILL
	METAL FRAMING
	INSULATION - BATT
	STEEL
	PLASTIC, AS NOTED
	SAND
	INSULATION - RIGID FOAM, FIBERGLASS
	ASPHALTIC CONCRETE INSULATION - RIGID PERLITE
	CONCRETE

17-01-25

OVERALL SITE PLAN — 1/32" = 1'-0"



VICINITY MAP — NTS



SCOPE OF WORK

NEW LIBRARY BUILDING AND ASSOCIATED SITEWORK.

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA, 93301
www.aparchitects.net

COUNTY OF TULARE LIBRARY SPRINGVILLE BRANCH

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY C-19670 EXP. 01-30-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	05.05.23

REVISIONS

No	Date	Item

09.27.23 14:43

TITLE SHEET

A0.00

Site Plan

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

WORKING NORTH

SITE PLAN KEYNOTES

01 EXISTING CONCRETE SIDEWALK TO REMAIN
02 EXISTING CURB/GUTTER TO REMAIN
03 EXISTING ASPHALT ROADWAY TO REMAIN
04 EXISTING PEDESTRIAN CROSSWALK TO REMAIN
05 EXISTING NEIGHBORING DRIVE APPROACH TO REMAIN
06 EXISTING STOP SIGN/ROAD MARKING TO REMAIN
07 PATCH ASPHALT PAVING AS REQUIRED TO PERFORM UTILITY/SITE WORK. REPAIR TRAFFIC MARKS AS REQUIRED PER CALTRANS REQUIREMENTS. SEE CIVIL/ELECTRICAL SHEETS FOR MORE INFORMATION
08 REMOVE AND REPLACE CONCRETE SIDEWALK, SEE CIVIL SHEETS FOR MORE INFORMATION — 15 A8.1C
09 REMOVE AND REPLACE CURB/GUTTER AS REQUIRED TO PERFORM WORK PER COUNTY OF TULARE STANDARDS, SEE CIVIL
10 6" THICK CONCRETE PAVING — 15 A8.1C
11 4" THICK CONCRETE WALK — 11 A8.1C
12 NATIVE SOIL
13 CONCRETE RETAINING WALL, SEE STRUCTURAL FOR MORE INFORMATION
14 TUBE STEEL FENCE/GATE — 51 A8.3 / 03 A8.3
15 PARKING STALL STRIPING — 12 A8.1C
16 CONCRETE PARKING STALL WHEELSTOP — 11 A8.1C
17 LANDSCAPE AREA, SEE LANDSCAPE AND IRRIGATION SHEETS FOR MORE INFORMATION
18 BIKE RACK, SEE SPECIFICATIONS
19 GUARD POSTS, VERIFY LOCATION/SPACING REQUIREMENTS WITH SCE. SEE ELECTRICAL SHEETS FOR MORE INFORMATION
20 DETECTABLE WARNING SURFACE, WET SET — 04 A8.0C
21 CONCRETE DRIVE APPROACH, SEE CIVIL SHEETS FOR MORE INFORMATION
22 PROPERTY LINE, SEE CIVIL
23 DOWNSPOUT, TYPICAL - SEE PLANS FOR MORE INFORMATION
24 COUNTY KNOX BOX, SEE COUNTY FOR REQUIREMENTS
25 6" CONCRETE CURB — 25 A8.1C
26 LINE OF EXISTING WALK/DRIVE APPROACH DEMOLISHED
27 BOLLARD (WITH LIGHT WHERE OCCURS), SEE ELECTRICAL SHEETS FOR MORE INFORMATION
28 APPROXIMATE LOCATION OF EXISTING BOULDER TO REMAIN, VERIFY EXTENT OF BOULDER AREA PRIOR TO EXCAVATION
29 ELECTRICAL EQUIPMENT/PAD, SEE ELECTRICAL SHEETS FOR MORE INFORMATION
30 MECHANICAL EQUIPMENT, SEE MECHANICAL SHEETS FOR MORE INFORMATION. VERIFY FINAL LOCATION WITH ARCHITECT. DO NOT IMPEDE INTO EXITING PATH OF TRAVEL.
31 WALL MOUNTED LIGHT FIXTURE, SEE EXTERIOR ELEVATIONS/ELECTRICAL SHEETS FOR MORE INFORMATION
32 POLE LIGHT, SEE ELECTRICAL SHEETS FOR MORE INFORMATION
33 ELECTRICAL PULLBOX, SEE ELECTRICAL SHEETS FOR MORE INFORMATION
34 CONCRETE PAD AT ELECTRICAL EQUIPMENT, SEE ELECTRICAL SHEETS FOR MORE INFORMATION
35 EXISTING FENCE TO REMAIN
36 APPROXIMATE LOCATION OF EXISTING BOULDER TO BE DEMOLISHED TO PERFORM NEW WORK
37 EXISTING AC PAVING PARKING LOT, DO NOT BLOCK TRAFFIC TO PERFORM NEW WORK
38 ADJACENT NEIGHBORING PROPERTY, DO NOT DISTURB
39 MONUMENT SIGN, SEE ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION — 35 A8.1C
40 NOT USED
41 6' CONCRETE EQUIPMENT PAD, SEE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION
42 COTG/VALVE BOX IN CONCRETE, SEE PLUMBING/CIVIL SHEETS FOR MORE INFORMATION
43 AC PAVING PATCH AT NEW CONCRETE CURB, VERIFY AREA NEEDED TO PERFORM WORK. PATCH WORK SHALL NOT IMPEDE TRAFFIC EGRESS AT POST OFFICE DRIVE APPROACH/PARKING LOT — 45 A8.1C

ACCESSIBLE PATH OF TRAVEL (P.O.T.)

"ACCESSIBLE PATH OF TRAVEL" (P.O.T.) AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. POT IS A MINIMUM OF 48" WIDE SLIP RESISTANT SURFACE WITH 5% MAX SLOPE AND 2% MAX CROSS SLOPE. TYP. THERE IS NO DROP-OFF OVER 4' AT THE EDGE OF WALK OR LANDING.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT

17-04-03

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA. 93301
www.aparchitects.net

COUNTY OF TULARE LIBRARY SPRINGVILLE BRANCH

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY C-19670 30-23 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.01.23

REVISIONS

No	Date	Item

10.30.23.13:18

SITE PLAN

A1.10

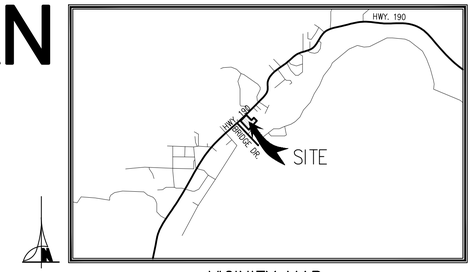
SITE GRADING, DRAINAGE AND UTILITY PLAN

SPRINGVILLE LIBRARY

SPRINGVILLE, CALIFORNIA

APN: 285-060-034

These plans have been accepted for Encroachment Permit No. 0623-NMC-0662 by ME on 1/10/2024



VICINITY MAP
N.T.S.

GENERAL NOTES

ALL GRADING, EXCAVATION, AND SOILS PREPARATION SHALL BE DONE IN CONFORMANCE WITH THE 2022 CALIFORNIA BUILDING CODE CHAPTER 33, REQUIREMENTS OF THE COUNTY OF TULARE, THE RECOMMENDATIONS CONTAINED IN THE PRELIMINARY GEOTECHNICAL REPORT PREPARED BY DC INSPECTIONS, DATED JULY 5, 2022, AND AS NOTED IN THE GENERAL NOTES BELOW:

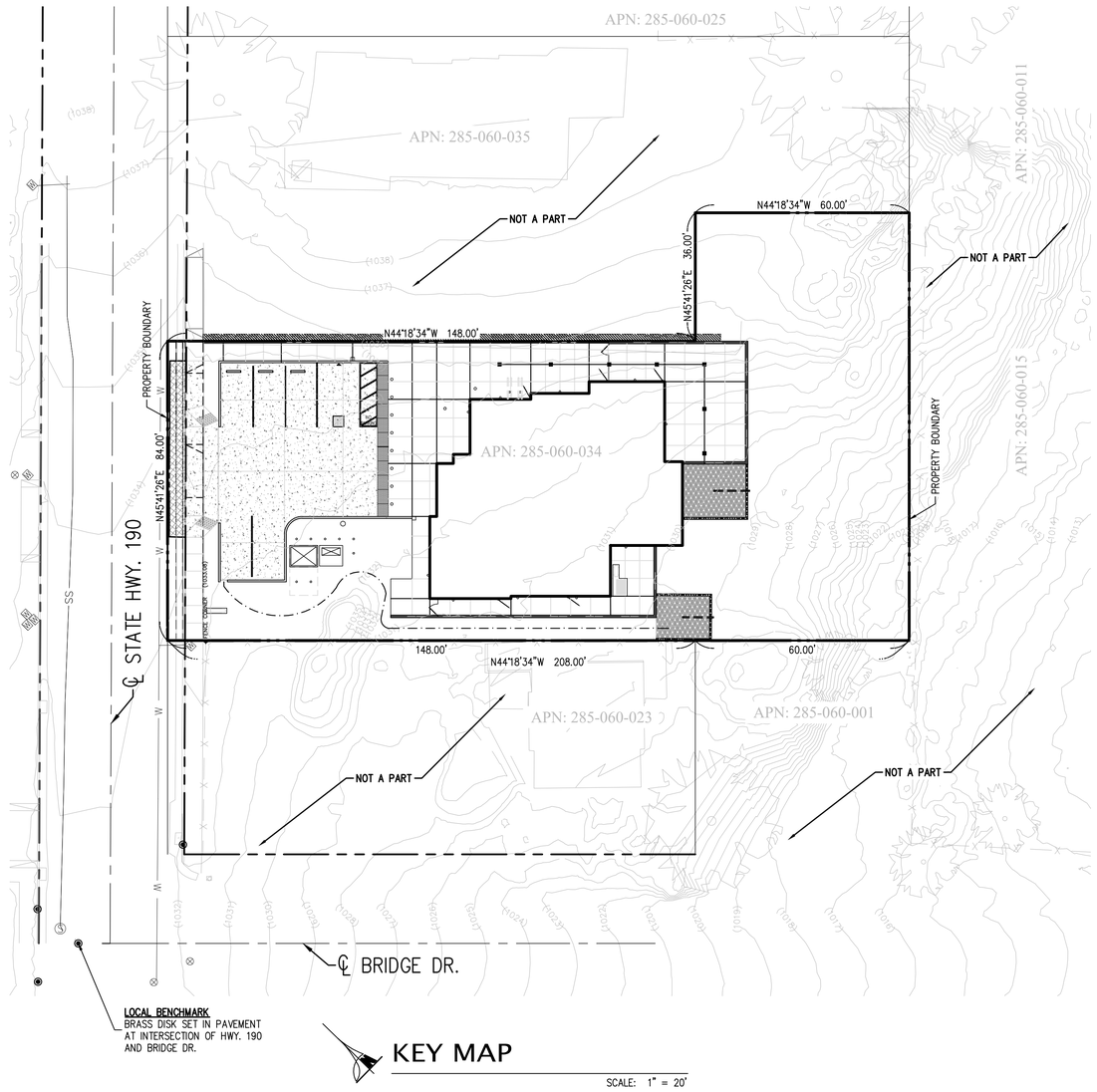
1. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE COUNTY OF TULARE IMPROVEMENT STANDARDS.
2. THE TULARE COUNTY RESOURCE MANAGEMENT AGENCY SHALL BE NOTIFIED (559) 624-7000 24-HOURS PRIOR TO THE START OF ANY PORTION OF WORK.
3. DEVIATION FROM THESE PLANS SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF BOTH THE DESIGN ENGINEER AND THE COUNTY OF TULARE.
4. AN ENCROACHMENT PERMIT SHALL BE OBTAINED PRIOR TO DOING ANY WORK WITHIN THE COUNTY ROAD RIGHT-OF-WAY.
5. SIGNING AND FLAGGING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE CURRENT AMENDED VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR USE IN CALIFORNIA.
6. FUGITIVE DUST CONTROL MEASURES SHALL BE TAKEN IN ACCORDANCE WITH RULE 8020 ESTABLISHED BY THE SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT.
7. CUT AND FILL SLOPES GREATER THAN 6:1 AND ALL CUT SLOPES SHALL BE STABILIZED FOR EROSION CONTROL BY SEEDING OR INCORPORATION OF STRAW PER SECTION 20 OF THE STATE STANDARD SPECIFICATIONS.
8. THE COUNTY ENGINEER MAY REQUIRE THAT A PRIME COAT OR PAINT BINDER PER SECTION 394.02 OF THE STATE STANDARD SPECIFICATIONS BE APPLIED TO ALL AREAS TO BE SURFACED WITH ASPHALT CONCRETE.
9. ANY UTILITIES CONFLICTING WITH THE IMPROVEMENTS SHALL BE RELOCATED IN THE CONSTRUCTION AND INSPECTION OF THE IMPROVEMENTS SHALL BE ARRANGED BY THE CONTRACTOR.
10. AN ON-SITE PRE-CONSTRUCTION MEETING BETWEEN ALL PARTIES INVOLVED IN THE CONSTRUCTION AND INSPECTION OF THE IMPROVEMENTS SHALL BE ARRANGED BY THE CONTRACTOR.
11. FINAL INSPECTION AND ACCEPTANCE OF ALL WORK WILL BE BY THE COUNTY OF TULARE.
12. THE CONTRACTOR/DEVELOPER SHALL CONTACT THE COUNTY AG DEPARTMENT TO ARRANGE FOR THE APPLICATION OF A SOIL STERILANT TO THE PONDING BASIN.
13. ALL GRADING WORK SHALL CONFORM TO THE STATE OF CALIFORNIA CONSTRUCTION GENERAL PERMIT REQUIREMENTS. A STORMWATER POLLUTION PREVENTION PLAN SHALL BE PREPARED, IF REQUIRED, AND SUBMITTED TO THE TULARE COUNTY RESOURCE MANAGEMENT AGENCY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
14. CUT SLOPES ARE 1.5:1 MAXIMUM. FILL SLOPES ARE 2:1 MAXIMUM.

811 Know what's below. Call before you dig.

CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES, AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION

WARNING:
LOCATE ALL UNDERGROUND PIPING IN THE CONSTRUCTION AREA PRIOR TO THE COMMENCEMENT OF GRADING.

CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING LINES AND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. DAMAGE TO ANY FACILITIES, UNDERGROUND OR OTHERWISE, RESULTING FROM THE CONTRACTOR'S OPERATIONS, DIRECTLY OR INDIRECTLY, SHALL BE IMMEDIATELY REPAIRED BY HIM AT NO EXPENSE TO THE DISTRICT, OWNER, ENGINEER, DESIGN ENGINEER OF CITY OF TULARE.



KEY MAP
SCALE: 1" = 20'

SHEET INDEX

EARTHWORK QUANTITIES:

TOTAL DISTURBED AREA =	0.3 ACRES
CUBIC YARDS CUT (RAW) =	45 C.Y.
CUBIC YARDS FILL (RAW) =	825 C.Y.
OVEREXCAVATION (1') =	415 C.Y.
CLEAR AND GRUB	0 C.Y.
CUBIC YARDS CUT (ADJUSTED) =	460 C.Y.
CUBIC YARDS FILL (ADJUSTED) =	1,612 C.Y.
TOTAL EARTHWORK QUANTITIES =	1, 150 C.Y. (IMPORT)

*FILL WAS CALCULATED WITH A COMPACTION FACTOR OF 1.3

THE ABOVE QUANTITIES ARE BASED ON GRADING LINES AND ELEVATIONS SHOWN ON THE DRAWINGS. ACTUAL QUANTITIES OF EARTHWORK MAY VARY FROM THAT STATED ABOVE DEPENDING UPON VARYING SOIL DENSITIES AND ON THE DEGREE OF SITE PREPARATION ACTUALLY REQUIRED IN THE FIELD.

BASIS OF BEARING:

THE NORTH AMERICAN DATUM OF 1983 (NAD83), CALIFORNIA COORDINATE SYSTEM, ZONE 4, WAS USED AS THE BASIS OF BEARINGS AS SHOWN HEREON.

LOCAL BENCHMARK:

BRASS DISK SET IN PAVEMENT AT INTERSECTION OF HWY. 190 AND BRIDGE DR. STAMPED FOR CALTRANS MONUMENT.

PT# 23
N 1930962.88
E 6615668.71
EL 1032.95

BENCHMARK:

DESIGNATION	POTERVILLECS2005 CORS ARP
CORS_ID	P056
PID	DN7512
STATE/COUNTY	CA/TULARE
USGS QUAD	PORTERVILLE (2018)
ELEVATION	439.90

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION 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 DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

REGISTERED PROFESSIONAL ENGINEER DERRILL C. WHITTEN JR. No. C-051930 CIVIL STATE OF CALIFORNIA

ENGINEER'S STATEMENT:

THESE PLANS AND SPECIFICATIONS WERE PREPARED BY ME OR UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH COUNTY OF TULARE ORDINANCES, STANDARDS, AND DESIGN CRITERIA, AND INCLUDE ALL IMPROVEMENT REQUIREMENTS OF THE ADVISORY AGENCY OR OTHER REVIEW BOARD.

ANY ERRORS, OMISSIONS OR OTHER VIOLATIONS OF THOSE ORDINANCES, STANDARDS OR DESIGN CRITERIA ENCOUNTERED DURING CONSTRUCTION SHALL BE CORRECTED AND SUCH CORRECTIONS REFLECTED ON CORRECTED PLANS SUBMITTED TO THE COUNTY ENGINEER.

12/12/2023
DERRILL G. WHITTEN JR. C-0519030 DATE

NO.	DATE:	REVISION:	BY:

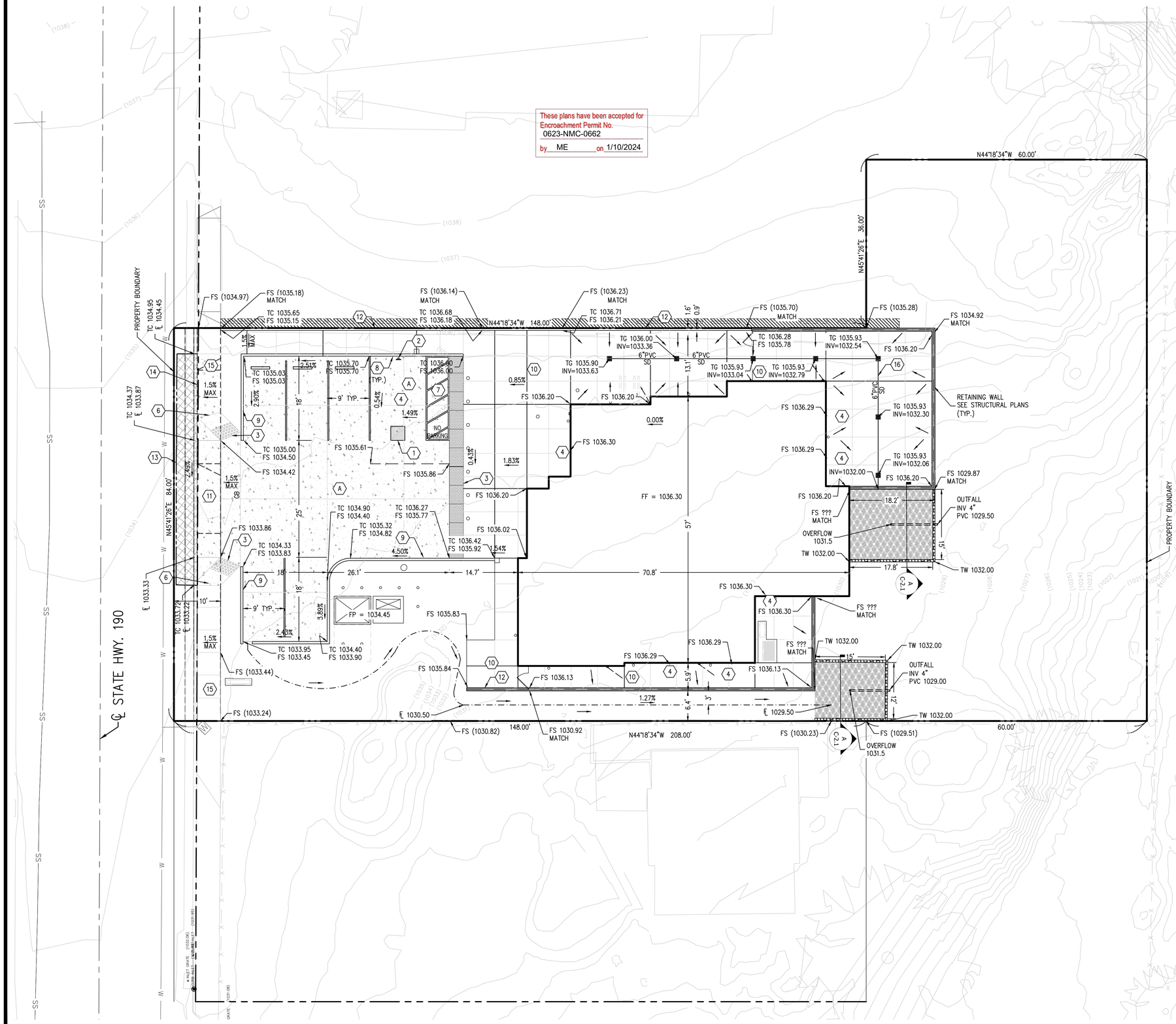
CORNERSTONE ENGINEERING
CONSULTANTS • ENGINEERS • LAND SURVEYORS
5509 YOUNG STREET, BAKERSFIELD CA 93311
TEL: (661) 325-9474 FAX: (661) 322-0129
www.cornerstoneeng.com

DEVELOPMENT BY:
SPRINGVILLE LIBRARY
35707 HWY 190
SPRINGVILLE, CA 93265

SITE GRADING, DRAINAGE AND UTILITY PLAN
SPRINGVILLE LIBRARY
APN: 285-060-034
COVER SHEET

DESIGNER:	DGW
CHECKED BY:	DGW
DATE:	12/12/2023
DRAFTER	RAC
SCALE:	AS SHOWN
COMP. NO:	7650400_GRD
JOB NO.:	765-04-00

C-1.0 SHEET 1 OF 6



CONSTRUCTION NOTES

1. PAINT HANDICAP SYMBOL PER DETAIL 1.
2. INSTALL ACCESSIBLE PARKING SIGN PER DETAIL 2.
3. INSTALL TRUNCATED DOMES PER DETAIL 4.
4. SLOPE SHALL BE 2% MAX. IN ANY DIRECTION PER CURRENT ADA STANDARDS
5. ADA PATH OF TRAVEL: 2% MAX. CROSS SLOPE AND 5% MAX SLOPE IN DIRECTION OF TRAVEL PER CURRENT ADA STANDARDS
6. INSTALL ACCESSIBLE RAMP PER CALTRANS STANDARDS PLAN A88A CASE 'F' DETAIL
7. PAINT 4" BLUE STRIPES AT 36" O.C. PER CURRENT ADA STANDARDS, WITH "NO PARKING" AT BACK OF STALL
8. WHEEL STOP PER ARCHITECTURAL PLANS
9. CONSTRUCT 6" CURB PER C.O.T. PLATE NO. A-19.
10. CONSTRUCT 4" THICK PORTLAND CEMENT CONCRETE SIDEWALK WITH 6x6/10x10 WWM OVER 6" OF NATIVE SOIL COMPACTED TO 90% RELATIVE COMPACTION PER ASTM D1557. INSTALL TOOLED CONSTRUCTION JOINTS @ 5' O.C. EACH WAY WITH EXPANSION JOINTS @ 20' O.C. EACH WAY WITH DOWELS PER DETAIL 3. CONTRACTOR SHALL FINISH THE CONCRETE SURFACE WITH A MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.
11. CONSTRUCT DRIVEWAY PER CALTRANS STANDARDS PLAN A87A, CASE A
12. INSTALL 6" "A" CURB
13. UNDER ENCROACHMENT PERMIT, SAWCUT AND REMOVE ±50 LF OF EXISTING CURB, GUTTER, DRIVE APPROACH AND PAVEMENT. INSTALL NEW CURB AND GUTTER WITH NEW DRIVEWAY AND SIDEWALK PER CALTRANS STANDARDS.
14. CONSTRUCT 6" CURB AND GUTTER TYPE A2 PER CALTRANS STANDARD A87A.
15. CONSTRUCT SIDEWALK PER CALTRANS STANDARDS.
16. INSTALL 85 L.F. OF 6" PVC S.D. PIPE @ 2% SLOPE. OUTFALL TO BIORETENTION BASIN.

*SEE SHEET C-2.1, FOR DETAILS AND STANDARDS

LEGEND (HATCH)

- CONCRETE FLATWORK: SEE CONSTRUCTION NOTES FOR MORE INFORMATION.
- (A) CONCRETE PAVEMENT: CONSTRUCT 6" P.C. CONCRETE WITH #4 REINFORCING BAR @24" O.C. EACH WAY OVER 12" OF NATIVE SOIL COMPACTED TO 95% RELATIVE COMPACTION PER ASTM D1557. P.C.C. SHALL HAVE A MINIMAL FLEXURAL STRENGTH (MODULUS OF RUPTURE) OF 500 PSI AND A MINIMUM COMPRESSION STRENGTH OF 3,500 PSI. FOR DOWELED JOINTS, SEE DETAILS 3 & 6. (TI=5.0)
- (B) ASPHALT PAVEMENT: INSTALL 3" ASPHALT CONCRETE OVER 9" AGGREGATE BASE OVER 12" OF NATIVE SOIL COMPACTED TO 95% MDD PER ASTM D1557. (TI=5.0)
- STREET PAVEMENT PATCH: MATCH EXISTING PAVEMENT SECTION

LEGEND

C.O.T.	– COUNTY OF TULARE
CL OR ℄	– CENTER LINE
EP	– EDGE OF PAVEMENT
EX	– EXISTING
GB	– GRADE BREAK
H.P.	– HIGH POINT
ℙ	– PROPERTY LINE
R/W	– RIGHT OF WAY
EP (55.80)	– EXISTING EDGE OF PAVEMENT ELEVATION
℄ (55.99)	– EXISTING FLOWLINE ELEVATION
FS (55.99)	– EXISTING FINISH SURFACE ELEVATION
FG 50.98	– FINISH GRADE ELEVATION
℄ 50.62	– FLOWLINE ELEVATION
LS	– LANDSCAPE
FS 54.13	– FINISH SURFACE ELEVATION
TC 55.88	– TOP OF CURB ELEVATION
———	– BOUNDARY/PROPERTY LINE
———	– EXISTING RIGHT OF WAY
– – –	– PROPOSED RIGHT OF WAY
-·-·-	– SAWCUT
→	– DIRECTION OF DRAINAGE
	– EXISTING POWER POLE
	– EXISTING SEWER MANHOLE
(281)	– EXISTING CONTOUR
	– SURVEY MONUMENT
	– PROPOSED FIRE HYDRANTS; SEE WATER PLAN
	–SITE LIGHTING PER ARCH'S PLANS

GRAPHIC SCALE
10' 5' 0' 5' 10'
(IN FEET)
1 inch = 10 ft.

NO.	DATE:	REVISION:	BY:

REGISTERED PROFESSIONAL ENGINEER
DERRILL C. WHITTEN JR.
No. C-051930
CIVIL
STATE OF CALIFORNIA
12/12/23

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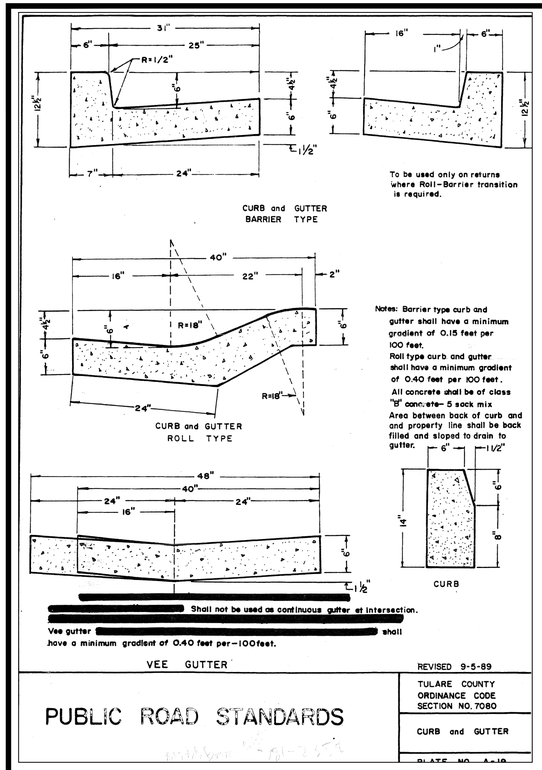
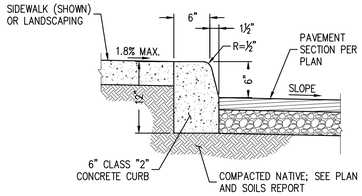
SITE GRADING, DRAINAGE AND UTILITY PLAN
SPRINGVILLE LIBRARY
APN: 285-060-034
GRADING AND DRAINAGE PLAN

DESIGNER:	DGW
CHECKED BY:	DGW
DATE:	12/12/2023
DRAFTER	RAC
SCALE:	AS SHOWN
COMP. NO:	7650400_GRD
JOB NO.:	765-04-00

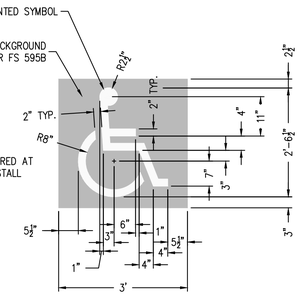
C-2.0 | SHEET 2 OF 6





–INSTALL 1/2" EXPANSION JOINT @ 20' o.c.
–WEAKENED PLANE JOINTS @ 5' o.c.
–JOINTS IN ADJACENT SIDEWALKS SHALL MATCH

4 6" ON-SITE CURB
Scale: 1":1'



NOTE: THE SIGN IS TO BE CENTERED AT THE INTERIOR END OF PARKING STALL

1 ACCESSIBLE SYMBOL
Scale: N.T.S.

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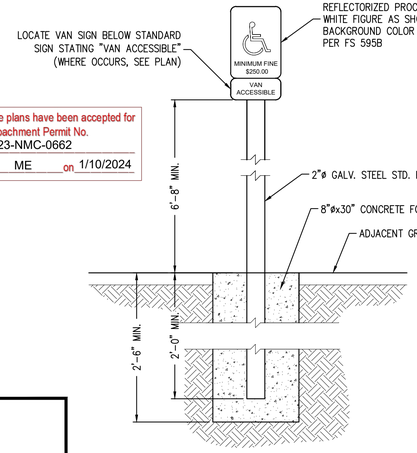
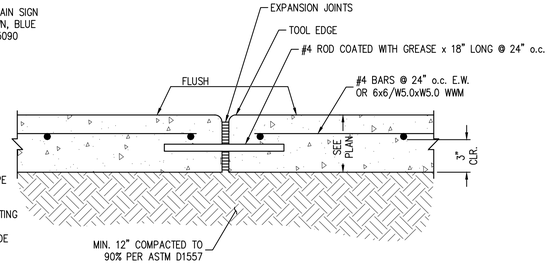
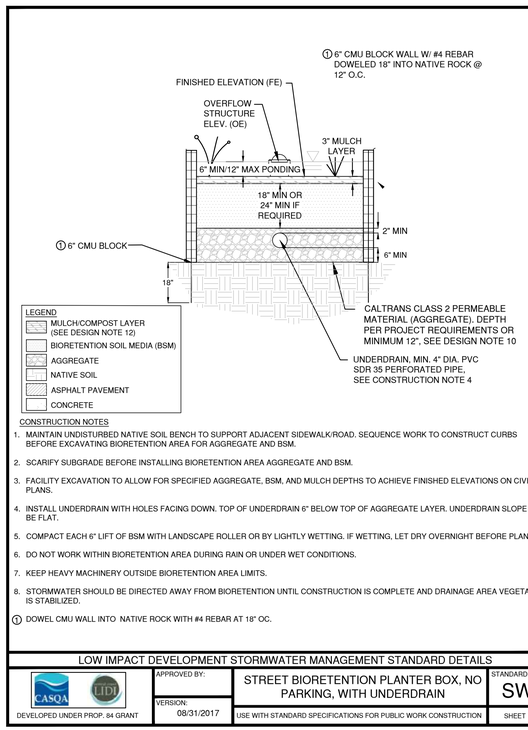
by ME on 1/10/2024



2 ACCESSIBLE PARKING SIGN
Scale: NT.S.



3 EXPANSION JOINT IN NEW CONCRETE
Scale: N.T.S.



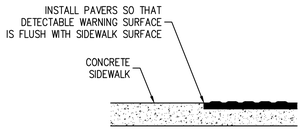
CONSTRUCTION NOTES

1. MAINTAIN UNDISTURBED NATIVE SOIL BENCH TO SUPPORT ADJACENT SIDEWALK/ROAD. SEQUENCE WORK TO CONSTRUCT CURBS BEFORE EXCAVATING BIORETENTION AREA FOR AGGREGATE AND BSM.
2. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
3. FACILITY EXCAVATION TO ALLOW FOR SPECIFIED AGGREGATE, BSM, AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.
4. INSTALL UNDERDRAIN WITH HOLES FACING DOWN. TOP OF UNDERDRAIN 6" BELOW TOP OF AGGREGATE LAYER. UNDERDRAIN SLOPE MAY BE FLAT.
5. COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, LET DRY OVERNIGHT BEFORE PLANTING.
6. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
7. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
8. STORMWATER SHOULD BE DIRECTED AWAY FROM BIORETENTION UNTIL CONSTRUCTION IS COMPLETE AND DRAINAGE AREA VEGETATION IS STABILIZED.

① DOWEL CMU WALL INTO NATIVE ROCK WITH #4 REBAR AT 18" OC.

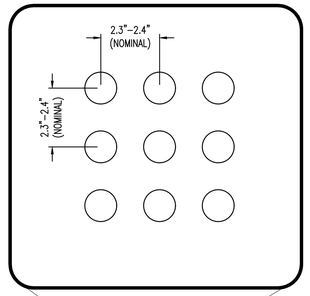
LOW IMPACT DEVELOPMENT STORMWATER MANAGEMENT STANDARD DETAILS

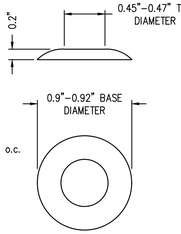
CASQA / LIDI DEVELOPED UNDER PROP. 84 GRANT	APPROVED BY: VERSION: 08/31/2017	STREET BIORETENTION PLANTER BOX, NO PARKING, WITH UNDERDRAIN USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION	STANDARD PLAN NO. SW-4 SHEET 1 OF 2

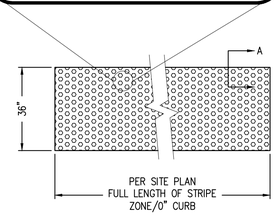


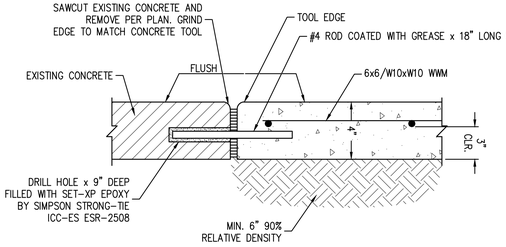
PLACEMENT DETAIL

SECTION A
NOT TO SCALE









6 EXPANSION JOINT IN EXISTING CONCRETE
Scale: N.T.S.

SURFACE MOUNTED TRUNCATED DOMES

DESCRIPTION OF WORK

A. A BRIEF DESCRIPTION OF WORK IS AS FOLLOWS:
   1. TRUNCATED-DOMES AT CURB RAMPS (ANY CURB RAMP AND THE PATH LEADING ACROSS VEHICULAR TRAFFIC SHALL HAVE TRUNCATED-DOMES).

QUALITY ASSURANCE

A. A.D.A. COMPLIANCE: PARKING SPACES FOR THE DISABLED SHALL BE MARKED ACCORDING TO 2019 C.B.C. SECTION 11B.502. TACTILE WARNING LINES SHALL BE IN COMPLIANCE TO 2019 C.B.C. SECTION 11B.705.

TRUNCATED IN-LINE DOMES AT ALL CURB RAMPS AND OTHER DESIGNATED LOCATIONS

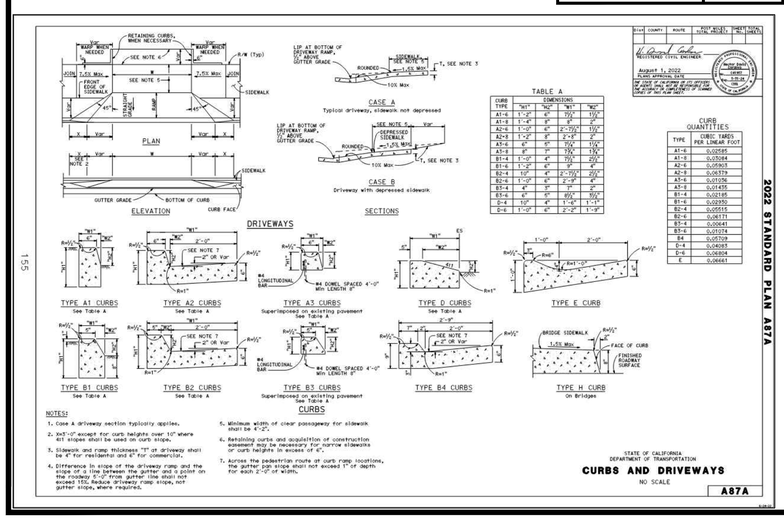
A. DOME GEOMETRY: IN ACCORDANCE WITH A.D.A. REGULATIONS; PART 1 – 4.29 AND CALIFORNIA TITLE 24 RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9", HEIGHT OF NOMINAL 0.2", AND CENTER-TO-CENTER SPACING OF 2.35".
B. PANEL DIMENSIONS: A 36" WIDE X 12" MINIMUM PANEL AT THE BOTTOM OF A CURB RAMP IS REQUIRED. INSTALLATION SHALL BE RECESSED.
C. MATERIAL: A HOMOGENOUS GLASS AND CARBON REINFORCED COMPOSITION SHALL BE COLORFAST AND UV STABLE. PANEL COLOR SHALL BE UNIFORM THROUGHOUT THE PANEL. COMPOSITE PRODUCTS WITH PAINT COATINGS OR UV COATINGS ARE UNACCEPTABLE.
D. INSTALLATION: TACTILE PANELS SHALL BE ADHERED TO RECESSED CONCRETE WITH EITHER THIN-SET MORTAR OR ONE COMPONENT STRUCTURAL URETHANE ADHESIVE. ADHESIVE COLOR SHALL MATCH PANEL. PANELS SHALL ALSO BE ATTACHED WITH MECHANICAL ANCHORS. FASTENERS SHALL BE ¼" X 1–5/8" COMPOSITE SLEEVE ANCHOR WITH STAINLESS STEEL PINS. FASTENER COLOR SHALL MATCH PANEL.
   1. ADHESIVE: SONOBORN NP1, SIKAFLEX 1.
E. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS OF BY THE FOLLOWING MANUFACTURER. THE ARCHITECT AS DELINEATED IN DIVISION O BID AND AGREEMENT DOCUMENTS MUST REVIEW OTHER MANUFACTURERS.
   1. A.D.A. TACTILE SYSTEMS
   2. A.D.A. SOLUTIONS, INC.
   3. ARMOR TILE OR APPROVED EQUAL.

F. REQUIREMENTS:

	RESULTS	A.S.T.M.
COMPRESSIVE STRENGTH	23,800 PSI	D 695
FLEXURAL STRENGTH	24,600 PSI	D 790
WATER ABSORPTION	.13% @ 2 WEEKS	D 570
SLIP RESISTANCE	EXCEEDS 0.80 WET OR DRY	C 1028
FLAME SPREAD INDEX	15	E 84
SMOKE DEVELOPED	145	E 84
SALT SPRAY	NO CHANGE (120 HOURS)	B 117
CHEMICAL STAIN	NO DETERIORATION	1308
ABRASIVE RESISTANCE	564	C 501
ACCELERATED WEATHERING	NO CHANGE (3,000 HOURS)	G 26
TENSILE STRENGTH	12,100 PSI	D 638
ROCKWELL HARDNESS	122	D 755
FREEZE/THAW/HEAT	NO DISINTEGRATIONC	1026

COLOR: YELLOW

5 RAISED TRUNCATED DOMES
Scale: N.T.S.



REVISION: BY: DATE: NO.

REGISTERED PROFESSIONAL ENGINEER DERRILL C. WHITTEN JR. No. C-051930 CIVIL STATE OF CALIFORNIA
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DETAILS AND STANDARDS

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CHECKED BY:	DGW
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C-2.1 SHEET 3 OF 6

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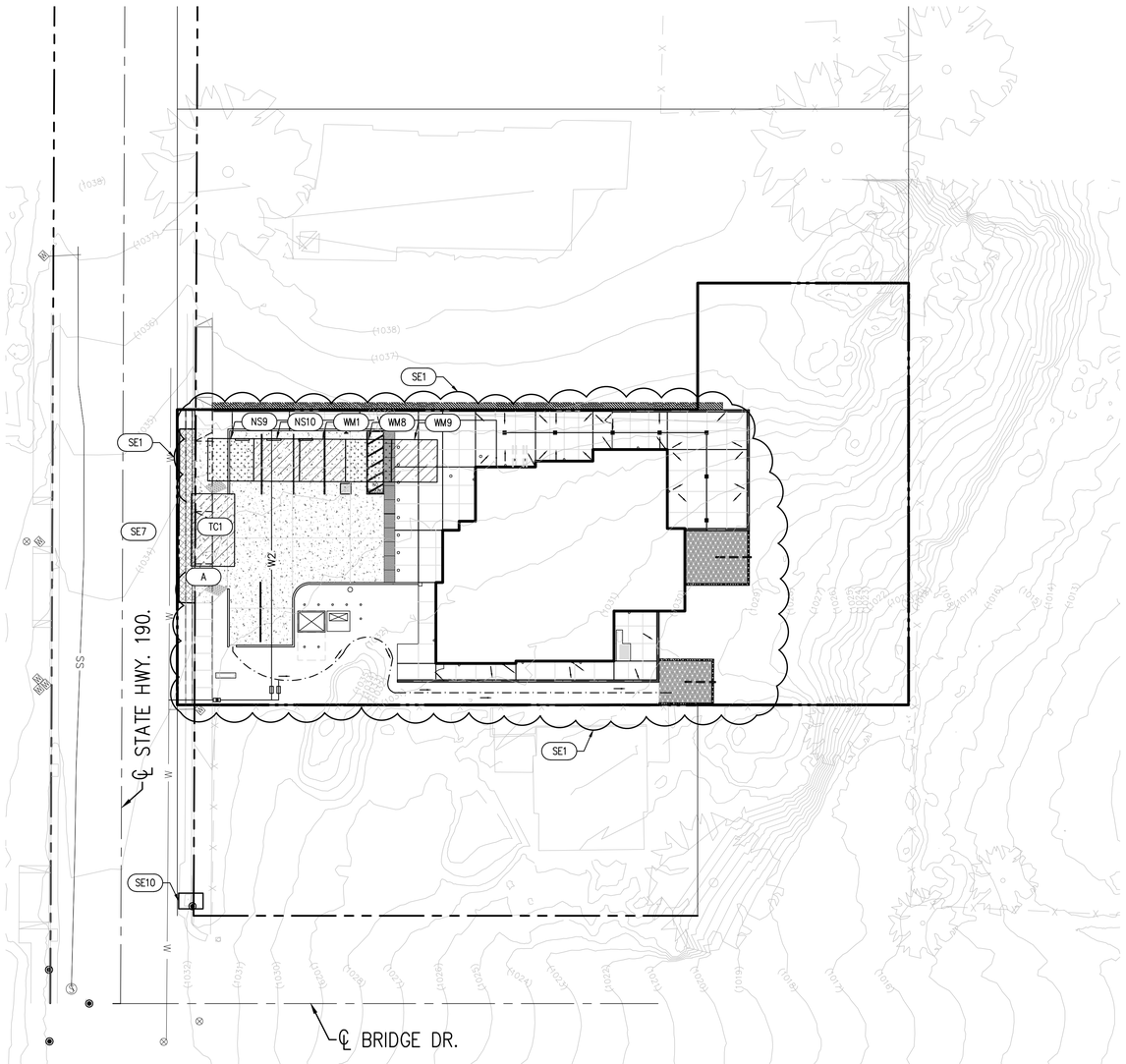

EROSION LEGEND

- SE1 — CONSTRUCT SILT FENCE IN ACCORDANCE WITH BMP FACTS SHEET SE-1. SEE BMP "H" ON SHEET C-2.2; FIBER ROLL MAY BE USED ALTERNATIVELY.
- SE5 — CONSTRUCT FIBER ROLL IN ACCORDANCE WITH BMP FACTS SHEET SE-5. SEE BMP "I" ON SHEET C-2.2; SILT FENCE MAY BE USED ALTERNATIVELY.
- SE7 — STREET SWEEPING IN ACCORDANCE WITH BMP FACTS SHEET SE-7
- SE10 — INSTALL FILTER FABRIC INLET PROTECTION OVER INLETS IN ACCORDANCE WITH BMP SE-10, SEE BMP "A" ON SHEET C-2.2
- TC1 — STABILIZED CONSTRUCTION ENTRY/EXIT POINT IN ACCORDANCE WITH BMP FACTS SHEET TC-1, SEE BMP "C" ON SHEET C-2.2
- WM1 — CONSTRUCT MATERIALS STORAGE AREA IN ACCORDANCE WITH BMP FACTS SHEET WM-1, SEE BMP "E" ON SHEET C-2.2
- WM8 — CONSTRUCT CONCRETE WASH OUT AREA. SEE BMP "F" ON SHEET C-2.2
- WM9 — CONSTRUCT SANITARY WASTE MANAGEMENT AREA IN ACCORDANCE WITH BMP FACTS SHEET WM-9.
- NS-9 — CONSTRUCT VEHICLE/EQUIPMENT REFUELING AREA IN ACCORDANCE WITH BMP FACTS SHEET NS-9, SEE BMP "G" ON SHEET C-2.2
- NS-10 — CONSTRUCT VEHICLE/EQUIPMENT MAINTENANCE AREA IN ACCORDANCE WITH BMP FACTS SHEET NS-10, SEE BMP "B" ON SHEET C-2.2
- A — SPEED LIMIT SIGN: 15 MPH

EROSION CONTROL NOTES:

1. IN CASE OF EMERGENCY, CALL CORNERSTONE ENGINEERING, INC. (661) 325-9474.
2. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
4. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL NOT BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECASE EXCEEDS 40%
5. AFTER A RAINSTORM ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS AND BASINS.
6. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE TO BE DIRECTED TOWARD DESILTING FACILITIES.
7. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATED A HAZARDOUS CONDITION.
8. THE UNDERSIGNED CIVIL ENGINEER SHALL INSPECT THE EROSION CONTROL WORK AND ENSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.

GRAPHIC SCALE
10' 5' 0' 5' 10'
(IN FEET)
1 inch = 10 ft.

NO.	DATE:	REVISION:	BY:

REGISTERED PROFESSIONAL ENGINEER
DERRILL C. WHITTEN JR.
No. C-051930
CIVIL
STATE OF CALIFORNIA
12/12/23

CORNERSTONE ENGINEERING
CONSULTANTS • ENGINEERS • LAND SURVEYORS
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DEVELOPMENT BY:
SPRINGVILLE LIBRARY
35707 HWY 190
SPRINGVILLE, CA 93265

SITE GRADING, DRAINAGE AND UTILITY PLAN
SPRINGVILLE LIBRARY
APN: 285-060-034

EROSION CONTROL PLAN

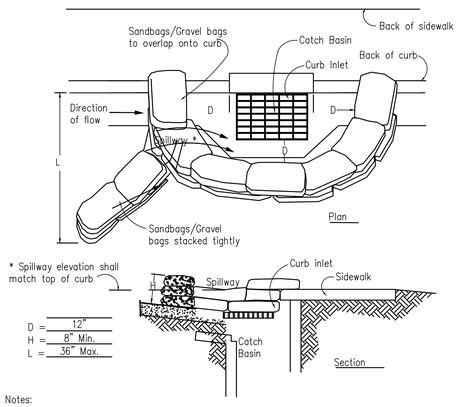
DESIGNER:	DGW
CHECKED BY:	DGW
DATE:	12/12/2023
DRAFTER	RAC
SCALE:	AS SHOWN
COMP. NO:	7650400_GRD
JOB NO.:	765-04-00

C-2.2 | SHEET 4 OF 6

BEST MANAGEMENT PRACTICES (BMP's)

General Notes

1. Best Management Practices (BMP's) contained herein reflect minimum requirements. Alternate methods providing equal or greater protection may be utilized. For additional BMP's refer to California Stormwater BMP Handbooks, available at WWW.CABMPHANDBOOKS.COM.
2. All construction activity shall be performed in accordance with a Stormwater Pollution Prevention Plan (SWPPP) developed and implemented in compliance with requirements of the Kern County Stormwater Management Program, National Pollution Discharge Elimination System (NPDES) Permit.
3. The SWPPP shall:
   a. Identify potential pollutant sources and include the design and placement of BMP's to effectively prohibit the entry of pollutants from the construction site into and onto the street and storm drain system during construction.
   b. Be kept on site and amended to reflect changing conditions throughout the coarse of construction.
   c. Be kept up to date. Any additional updates requested by agency representative are to be made immediately.
4. Non-Stormwater discharges are prohibited from entering any storm drain system and/or street.
5. Discharges of pumped ground water require a discharge permit from the State of California Regional Water Quality Control Board (RWQCB).
6. Pollutants shall be removed from stormwater discharges to the Maximum Extent Practicable (MEP) through design & implementation of the SWPPP.
7. A standby crew for emergency work shall be available at all times during the rainy season (Nov. 1 to Apr. 15). Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of emergency devices when rain is imminent.
8. Portable sanitary facilities shall be located on relatively level ground away from traffic areas, drainage courses, and storm drain inlets.
9. Employees, subcontractors and suppliers shall be educated on all BMP's including concrete waste storage and disposal procedures.
10. Sediment control practices shall effectively prevent a net increase of sediment load in stormwater discharge.



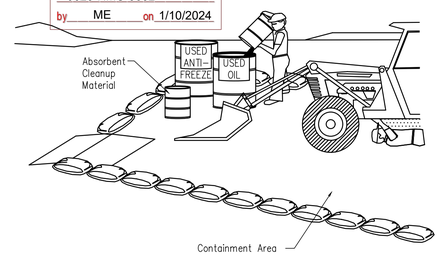
D = 12"
H = 8" Min.
L = 36" Max.

Notes:

1. Catch Basin/Inlet protection shall be installed wherever there is a potential of stormwater or non-stormwater being discharged into it.
2. Inlet protection is required along with other pollution prevention measures such as; erosion control, soil stabilization, and measures to prevent tracking onto paved surfaces.
3. Modify inlet protection as needed to avoid creating traffic hazards.
4. Include inlet protection measures at hillside v-ditches and misc. drainage swales.
5. Inlet protection shall be inspected and accumulated sediments removed. Sediment shall be disposed of properly and in a manner that assures that the sediment does not enter the storm drain system
6. Damaged bags shall be replaced immediately.
7. Additional sandbag sediment traps shall be placed at intervals as indicated on site plan.

A CATCH BASIN / INLET PROTECTION

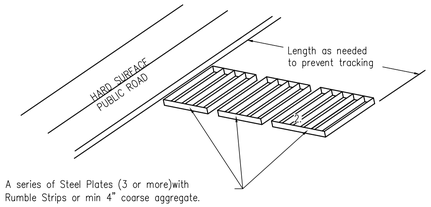
These plans have been accepted for Encroachment Permit No. 0623-NMC-0662 by ME on 1/10/2024



Notes:

1. Leaking vehicles and equipment shall not be allowed on-site. Equipment and vehicles shall be inspected frequently for leaks and shall be repaired immediately. Clean up spills and leaks promptly with absorbent materials; do not flush with water.
2. Vehicles and equipment shall be maintained, and repaired on-site only in designated areas.
3. Prevent run-on and run-off from designated areas. Containment devices shall be provided and areas shall be covered if necessary.
4. Designate on-site vehicle and equipment maintenance areas, away from storm drain inlets and watercourses.
5. Always use secondary containment, such as a drain pan or drop cloth, to catch spills and leaks when removing or changing fluids.
6. Legally dispose of used oils, fluids, and lubricants.
7. Provide spill containment dikes or secondary containment around stored oil, fuel, and chemical drums.
8. Maintain an adequate supply of absorbent spill cleanup materials in designated area.

B EQUIPMENT MAINTENANCE AREAS

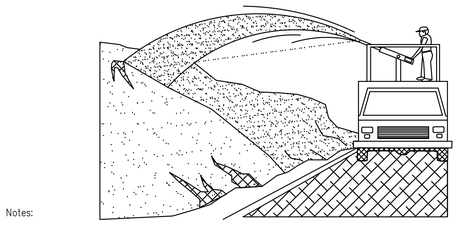


Notes:

1. Sediments and other materials shall not be tracked from the site by vehicle traffic. The construction entrance roadways shall be stabilized so as to prevent sediments from being deposited into the public roads. Depositions must be swept up immediately and may not be washed down by rain or other means into the storm drain system.
2. Stabilized construction entrance shall be:
   2.a. Located at any point where traffic will be entering or leaving a construction site to or from a public right of way, street, alley, and sidewalk or parking area.
   2.b. A series of steel plates with "rumble strips", and/or min 4" coarse aggregate with length, width & thickness as needed to adequatly prevent any tracking onto paved surfaces.
3. Adding a wash rack with a sediment trap large enough to collect all wash water can greatly improve efficiency.
4. All vehicles accessing the construction site shall utilize the stabilized construction entrance sites.

1. Remove all sediment deposited on paved roadways immediately.
2. Sweep paved areas that receive construction traffic whenever sediment becomes visible.
3. Pavement washing with water is prohibited if it results in a discharge to the storm drain system.

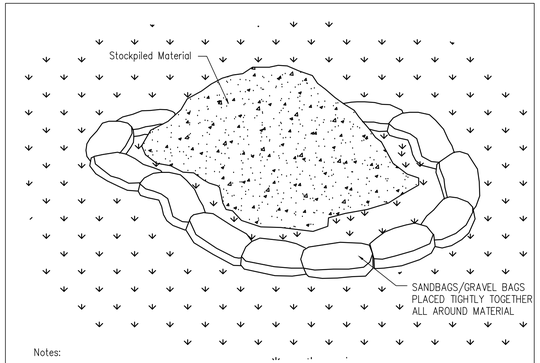
C STABILIZED CONSTRUCTION ENTRANCE



Notes:

1. Soil/Slope stabilization practices shall be designed to preserve existing vegetation where feasible and to revegetate open areas as soon as feasible after grading. These control practices shall include temporary seeding, permanent seeding, mulching, sod stabilization, vegetative buffer strips, protection of trees, or other soil stabilization practices.
2. Soil stabilization shall be implemented on all inactive disturbed areas from November 1 thru April 15 and on all disturbed areas during a rain event or potential rain.
3. Stabilization practices shall control/prevent erosion from the forces of wind and water.
4. Stabilization practices shall be implemented in conjunction with sediment trapping/filtering practices and practices to reduce the tracking of sediment onto paved roads.
5. When using straw mulching, the minimum application shall be 2 tons/acre. Mulch must be anchored immediately to minimize loss by wind or water.
6. When using hydroseeding/mulching, the minimum application of wood fiber shall be 1,500 lbs/acre, that does not contain more than 50 percent newsprint.
7. For seeding recommendations, contact: USDA, Natural Resources Conservation Service at 5000 California Avenue, Bakersfield, CA 93309-0725. Phone: (661) 336-0967.

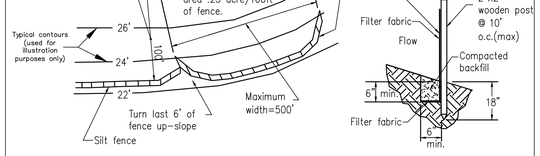
D EROSION CONTROL



Notes:

1. Dirt and other construction related materials placed in the street or on other impervious surfaces must be contained with sandbags or other measures to prevent transport to the stormdrain system.
2. Any construction material stored or stockpiled on-site shall be protected from being transported by the force of wind or water.

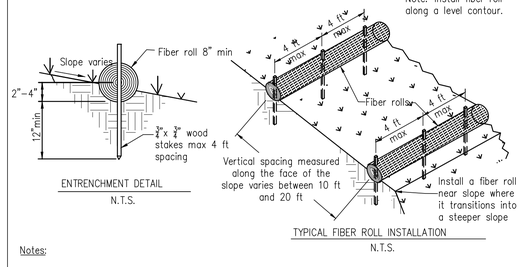
E MATERIAL STORAGE



Notes:

1. Construct the silt fence along a level contour.
2. Silt fences shall remain in place until the disturbed area is permanently stabilized.
3. Provide sufficient room for runoff to pond behind the fence and allow sediment removal equipment to pass between the silt fence and toe of slope or other obstructions. About 1200 sq. ft. of ponding area shall be provided for every acre draining to the fence.
4. Turn the ends of the filter fence uphill to prevent stormwater from flowing around the fence.
5. Leave an undisturbed or stabilized area immediately downslope from the fence.
6. Do not place in live stream or intermittently flowing channels.
7. When standard filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy-duty (0.6 inch) wire staples at least 1.75 inches long, tie wires or hog rings.
8. Filter fabric shall be woven polypropylene geotextile with a minimum width of 36 inches and a minimum tensile strength of 100 lb force.
9. Wood stakes shall be commercial quality lumber no less than 2 inch by 2 inch. Wood stakes shall be driven to a depth of no less than 18 inches from surface.

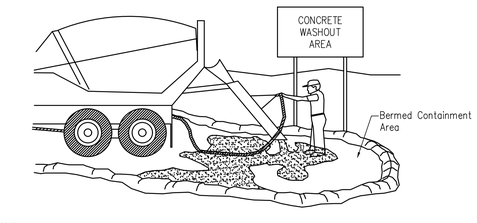
H SILT FENCE



Notes:

1. Place along the toe, top, face, and at grade breaks of exposed and erodible slopes.
2. Place on the down-slope of exposed soil areas.
3. Place around temporary stockpiles.
4. Place along the perimeter of a project.
5. Slopes greater than 1:5 may require the use of 20 inch diameter fiber rolls at the top of slopes.
6. Fiber rolls shall be either prefabricated or rolled tubes of erosion control blankets with a minimum 8 inch diameter.
7. Slopes 1:4 or flatter require fiber rolls to be placed no more than 20 feet apart.
8. Slopes 1:4 to 1:2 require fiber rolls to be placed no more than 15 feet apart.
9. Slopes 1:2 or greater require fiber rolls to be placed no more than 10 feet apart.
10. Fiber rolls shall be placed in a 2 to 4 inch deep trench.
11. Wooden commercial grade stakes, $\frac{3}{4}$" X $\frac{3}{4}$", shall be used to secure the fiber roll to the ground surface. Stakes shall be a minimum length of 24 inches and driven a minimum of 12 inches.
12. A single-stake installation requires the stakes to be placed no more than 2 feet apart.
13. If more than one fiber roll is placed in a row, the rolls shall be overlapped, not abutted, a minimum of 1 foot.

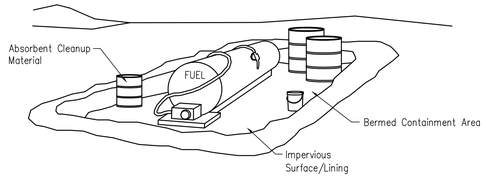
I FIBER ROLL



Notes:

1. Excess and waste concrete shall not be washed into the street or into a drainage system.
2. For washout of concrete and mortar products, a designated containment facility of sufficient capacity to retain liquid and solid waste shall be provided on site.
3. Slurry from concrete and asphalt saw cutting shall be vacuumed or contained, dried, picked up and disposed of properly.

F CONCRETE WASTE MANAGEMENT



Notes:

1. Fueling shall be performed in a designated area, away from drainage courses.
2. Absorbent cleanup material shall be on site and used immediately in the event of a spill.

G VEHICLE / EQUIPMENT FUELING

NO. | DATE: | REVISION: | BY:

CORNERSTONE ENGINEERING
CONSULTANTS • ENGINEERS • LAND SURVEYORS
5509 YOUNG STREET, BAKERSFIELD CA 93311
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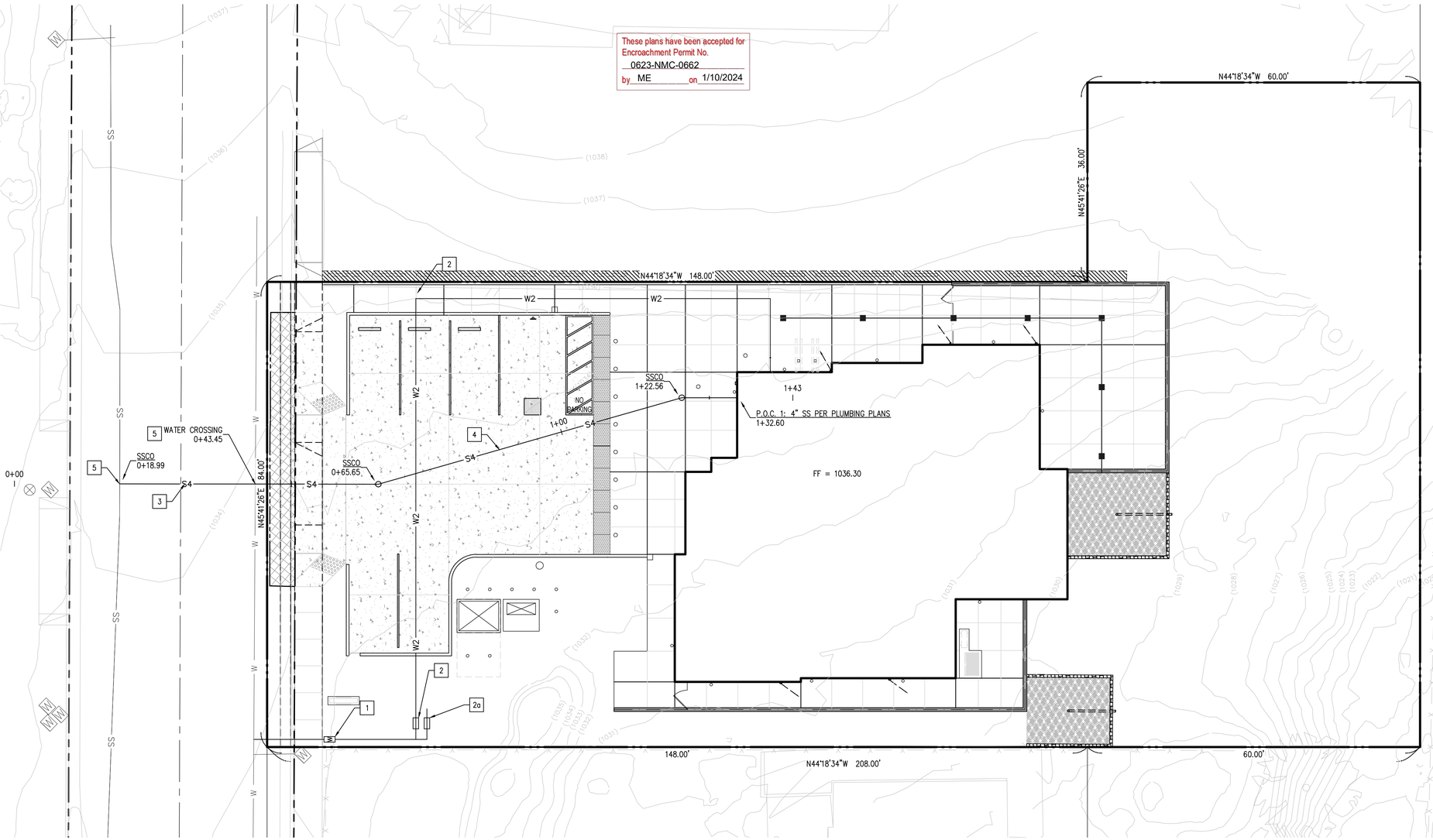
REGISTERED PROFESSIONAL ENGINEER
DERRILL C. WHITTEN JR.
No. C-051930
CIVIL
STATE OF CALIFORNIA
12/12/23

DEVELOPMENT BY:
SPRINGVILLE LIBRARY
35707 HWY 190
SPRINGVILLE, CA 93265

SITE GRADING, DRAINAGE AND UTILITY PLAN
SPRINGVILLE LIBRARY
BEST MANAGEMENT PRACTICES (BMPs)

DESIGNER:	DGW
CHECKED BY:	DGW
DATE:	12/12/2023
DRAFTER	RAC
SCALE:	AS SHOWN
COMP. NO:	7650400_GRD
JOB NO.:	765-04-00
C-2.3	SHEET 5 OF 6

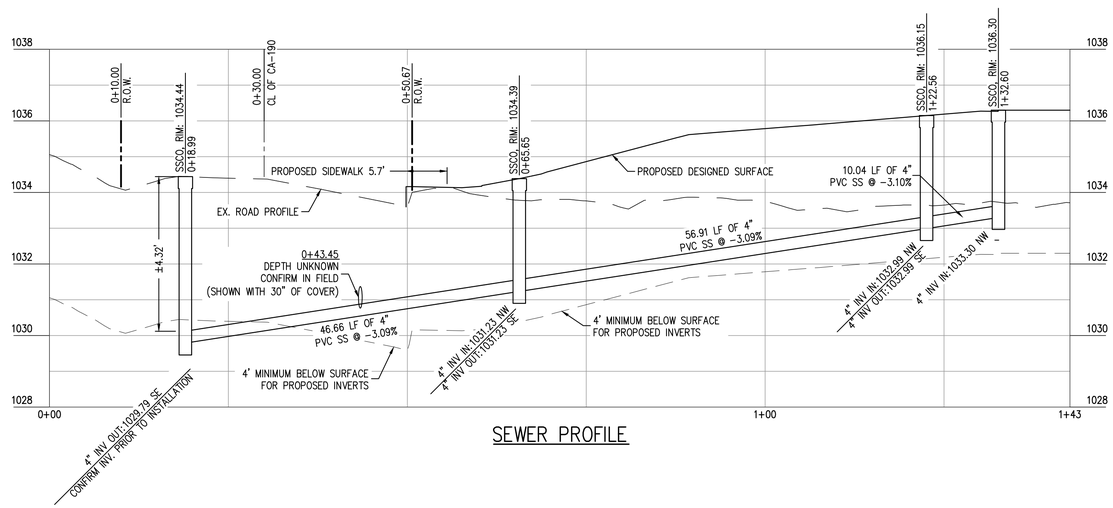


LEGEND

W12	EXISTING WATER MAIN & SIZE
S12	EXISTING SANITARY SEWER PIPE & SIZE
	EXISTING POWER POLE
T	EXISTING TELEPHONE LINE
OE	EXISTING OVERHEAD ELECTRICAL LINE
G	EXISTING BURIED GAS PIPE
TV	EXISTING BURIED CABLE TV
	EXISTING UTILITY VAULT
	EXISTING TELEPHONE POLE w/GUY WIRE
	EXISTING STREET LIGHT
D S	EXISTING STORM DRAIN/SEWER MANHOLE
	EXISTING FENCELINE
	EXISTING FIRE HYDRANT
	EXISTING VALVE BOX
W	EXISTING WATER METER
G	EXISTING GAS METER
CO	EXISTING SEWER CLEANOUT
(303)	EXISTING CONTOUR W/ELEVATION
	SITE BOUNDARY
S6	NEW SANITARY SEWER LINE & SIZE
W8	NEW WATER LINE & SIZE
D12	NEW STORM DRAIN LINE & SIZE
	NEW WATER VALVE
W	NEW WATER METER
FS 305.50	= PROPOSED GRADE ELEVATION
2.0%	= PROPOSED GRADIENT
FL	= FLOWLINE
FS	= FINISHED SURFACE
FF	= FINISHED FLOOR
FG	= FINISHED GRADE
FP	= FINISHED PAD
INV	= INVERT OF PIPE
TC	= TOP OF CONCRETE
TG	= TOP OF GRATE
TP	= TOP OF PAVEMENT
GB	= GRADE BREAK
LS	= LANDSCAPE
C.O.B.	= CITY OF BAKERSFIELD

UTILITY CONSTRUCTION NOTES

1. UNDER AN ENCROACHMENT PERMIT, INSTALL 1" WATER SERVICE WITH A 1" METER PER SPRINGVILLE P.U.D. STANDARDS.
2. INSTALL 1 ½" SCH 40 PVC WATER SERVICE WITH BACKFLOW DEVICE ON LINE TO P.O.C. ON BUILDING PLANS.
2a. INSTALL 1" SCH 40 PVC WATER SERVICE WITH BACKFLOW DEVICE FOR LS SERVICE AT P.O.C. ON LS PLANS.
3. UNDER ENCROACHMENT PERMIT, INSTALL SEWER MAIN CONNCECTION INTO EXISTING SPRINGVILLE P.U.V. SEWER MAIN.
4. INSTALL 56.9' OF 4" SEWER MAIN WITH 1 C.O. @ ANGLE POINT.
5. PRIOR TO INSTALLATION CONTRACTOR SHALL POTHOLE THE SEWER P.O.C AND WATER POINT OF CROSSING TO CONFIRM INSTLLATION APPROACH.



SEWER PROFILE

GRAPHIC SCALE
10' 0' 10'
HORIZ: 1"=10'
VERT: 1"=2'

GRAPHIC SCALE
10' 5' 0' 5' 10'
(IN FEET)
1 inch = 10 ft.

NO.	DATE:	REVISION:	BY:

REGISTERED PROFESSIONAL ENGINEER
DERRILL C. WHITTEN JR.
No. C-051930
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STATE OF CALIFORNIA
12/12/23

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DEVELOPMENT BY:
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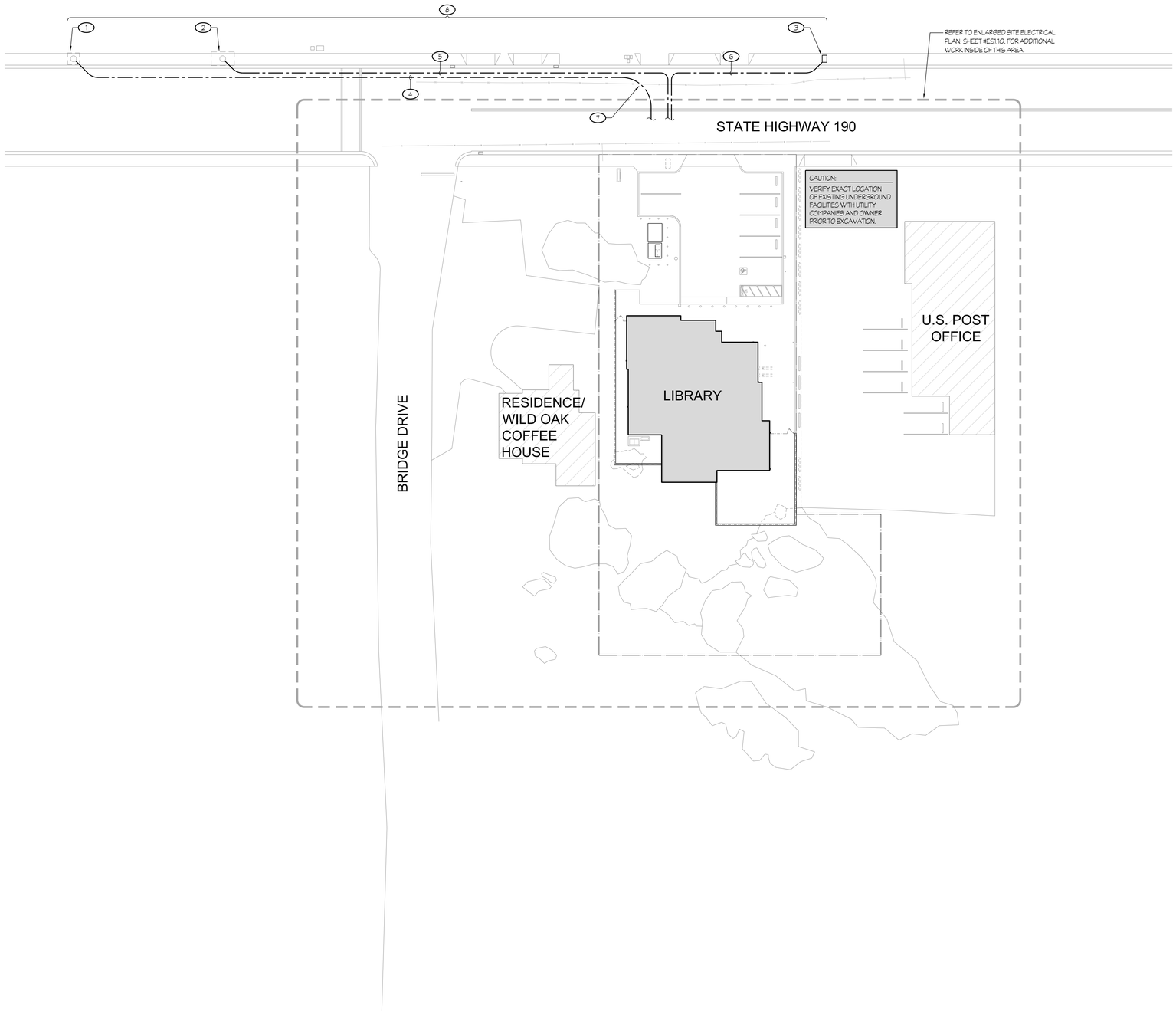
SITE GRADING, DRAINAGE AND UTILITY PLAN
SPRINGVILLE LIBRARY
APN: 285-060-034
SEWER AND WATER

DESIGNER:	DGW
CHECKED BY:	DGW
DATE:	12/12/2023
DRAFTER	RAC
SCALE:	AS SHOWN
COMP. NO:	7650400_GRD
JOB NO.:	765-04-00

C-2.4 SHEET 6 OF 6

These plans have been accepted for Encroachment Permit No.
0623-NMC-0662
by ME on 1/10/2024



SITE ELECTRICAL PLAN

Scale: 1" = 20'-0"

WORKING NORTH

NOTES (THIS SHEET ONLY):

1. APPROXIMATE LOCATION OF EXISTING S.C.E. MANHOLE BELOW SIDEWALK. COORDINATE THE EXACT LOCATION WITH S.C.E.. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT 'POINT-OF-CONNECTION' WITH S.C.E. PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL TRENCH TO THE EXISTING S.C.E. MANHOLE AND INSTALL THE 'PRIMARY' CONDUIT WITHIN 5' OF THE EXISTING S.C.E. MANHOLE. PROVIDE ADDITIONAL CONDUIT AND FITTINGS AS REQUIRED FOR TERMINATION INTO THE EXISTING S.C.E. MANHOLE BY S.C.E. OR THEIR 'COST-PLUS' CREW. THE ELECTRICAL CONTRACTOR SHALL BACKFILL AND COMPACT THE ENTIRE TRENCH PER S.C.E. AND CALTRANS STANDARDS.
2. APPROXIMATE LOCATION OF EXISTING ATT MANHOLE BELOW SIDEWALK. COORDINATE THE EXACT LOCATION WITH ATT.
3. APPROXIMATE LOCATION OF EXISTING CATV SERVICE BOX. COORDINATE THE EXACT LOCATION WITH CHARTER SPECTRUM.
4. ONE 5"C (S.C.E. 'PRIMARY') PER S.C.E. REQUIREMENTS.
5. ONE 4"C (ATT FACILITES) PER ATT REQUIREMENTS.
6. ONE 2"C (CHARTER SPECTRUM FACILITIES) PER CHARTER SPECTRUM FACILITIES REQUIREMENTS.
7. PROVIDE A 12'-6" RADIUS SWEEP BEND PER S.C.E. REQUIREMENTS.
8. SAWCUT AND PATCH EXISTING AC PAVING PER S.C.E. AND CALTRANS STANDARDS. BACKFILL AND COMPACT TRENCH PER S.C.E. AND CALTRANS STANDARDS.

UTILITY COMPANY REQUIREMENTS (1)

VERIFY AND COMPLY WITH ALL UTILITY COMPANY REQUIREMENTS BEFORE BIDDING JOB AND OBTAIN ENGINEERED DOCUMENTS BEFORE CONSTRUCTION:

POWER CO.
S.C.E. DANIEL FILLA — OFFICE: (559) 685-3295 — EMAIL: Daniel.Filla@sce.com

PHONE CO. (2)
ATT JASON McCOY — OFFICE: (559) 304-7307 — EMAIL: jm2914@att.com

C.A.T.V. CO.
CHARTER SPECTRUM DAN NAUYOKS — OFFICE: (559) 920-9669 — EMAIL: Dan.nauyoks@charter.com

NOTE:

(1) VERIFY EXACT PUBLIC UTILITY EASEMENT AND/OR RIGHT OF WAY WITH RESPECTIVE UTILITY COMPANIES PRIOR TO PLACEMENT OF CONDUIT, SUB-STRUCTURES, ETC.

(2) A.T.T. HAS STANDARDIZED ON PVC CONDUIT AND FITTINGS MANUFACTURED BY CANTEX. THE CONDUIT WILL BE WHITE IN COLOR WITH A.T.T. BRANDING. THE AUTHORIZED DISTRIBUTOR/SUPPLIER IS SAF-T-CO (714) 547-9975 OR WWW.SAFTCO.COM.

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER — ROSEMARY K. EASTHAM — No. E-18786 Exp. 6/30/23 — ELECTRICAL — STATE OF CALIFORNIA

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA, 93301
www.aparchitects.net

COUNTY OF TULARE SPRINGVILLE BRANCH LIBRARY

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT — JAMES PATRICK FOGARTY — No. C-19670 — Exp. 11-30-25 — STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

REVISIONS

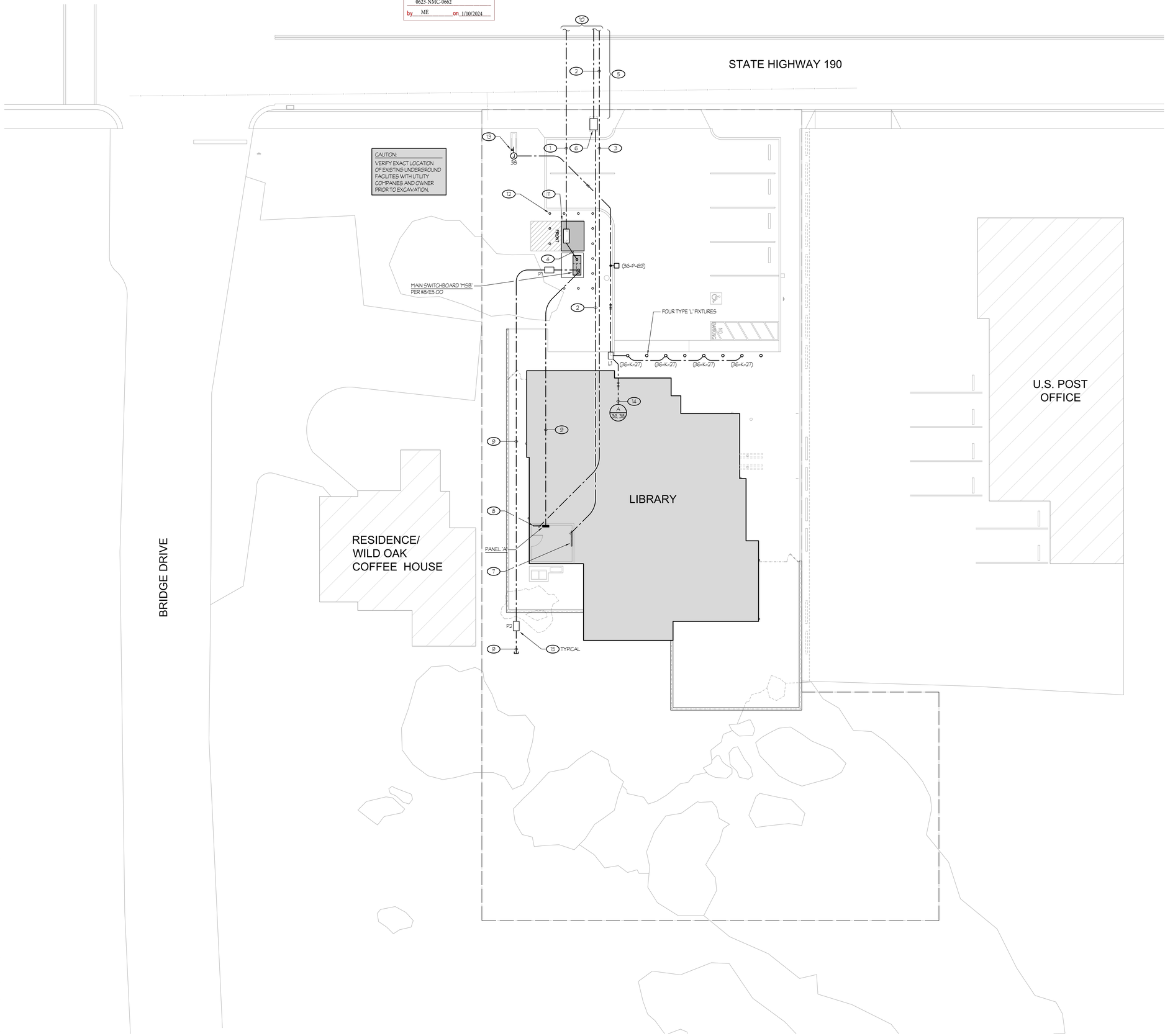
No	Date	Item

SITE ELECTRICAL PLAN

ES1.00

Z:\Drafting\Jobs\0621\Tulare County\New Public Library - Springville\ES1.00.dwg DATE: SHEET: 09/28/23 BY: Nicole DATE PLOTTED: 09/29/23 JOB #: 22-087-05

These plans have been accepted for Encroachment Permit No. 0623-NMC-0662 by ME on 1/10/2024



NOTES (THIS SHEET ONLY):

1. ONE 5"C (S.C.E. 'PRIMARY') PER S.C.E. REQUIREMENTS.
2. ONE 4"C (ATT FACILITES) PER ATT REQUIREMENTS.
3. ONE 2"C (CHARTER SPECTRUM FACILITIES) PER CHARTER SPECTRUM FACILITIES REQUIREMENTS.
4. ONE 4"C (S.C.E. 'SECONDARY') PER S.C.E. REQUIREMENTS.
5. SAWCUT AND PATCH EXISTING AC PAVING PER CALTRANS STANDARDS. BACKFILL AND COMPACT TRENCH PER CALTRANS STANDARDS.
6. PROVIDE 17" x 30" PULL BOX PER ATT REQUIREMENTS. COORDINATE EXACT LOCATION WITH ATT PRIOR TO ROUGH-IN.
7. PLYWOOD BACKBOARD FOR ATT FACILITIES.
8. PLYWOOD BACKBOARD FOR CHARTER SPECTRUM FACILITIES.
9. REFER TO ONE LINE DIAGRAM, DETAIL #1/E4.00, FOR ALL POWER FEEDER AND/OR 'SPARE' CONDUIT REQUIREMENTS, TYPICAL.
10. REFER TO SITE ELECTRICAL PLAN, SHEET #ES1.00, FOR CONTINUATION.
11. PROVIDE A 72" x 84" CONCRETE TRANSFORMER PAD, GROUNDING AND BARRIER POSTS PER S.C.E. REQUIREMENTS.
12. PROVIDE GUARD POST PER DETAIL #14/E5.00. TYPICAL OF FOUR.
13. CONNECT THE CUSTOM BACKLIT METAL STANDOFF SIGN MOUNTED ON THE MONUMENT. VERIFY THE EXACT 'POINT-OF-CONNECTION(S)' WITH THE SIGN SUPPLIER PRIOR TO ROUGH-IN.
14. HOMERUN VIA RESPECTIVE RELAY IN LIGHTING CONTROL PANEL 'L.C.P.'.
15. REFER TO DETAIL #18/E5.00 FOR PULL BOX REQUIREMENTS. TYPICAL. U.O.N., WHERE FEEDER OR BRANCH CIRCUIT CONDUCTORS ARE ROUTING THRU THE PULL BOX, PROVIDE GROUNDING AND BONDING OF THE STEEL CHECKER-PLATE COVER PER DETAIL #17/E5.00.

ENLARGED SITE ELECTRICAL PLAN

Scale: 1" = 10'-0"

WORKING NORTH

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth ~ (559)733-2671
Visalia, California 93292-6705

PROFESSIONAL ENGINEER KIRK A. EASTHAM No. E-18786 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

ap architects
3434 Truxtun Avenue, #240
Bakersfield, CA, 93301
www.aparchitects.net

COUNTY OF TULARE SPRINGVILLE BRANCH LIBRARY

35707 CA-190 . Springville . CA . 93265

ARCHITECT

LICENSED ARCHITECT JAMES PATRICK FOGARTY C-19670 11-30-25 STATE OF CALIFORNIA

JAMES PATRICK FOGARTY, AIA
ARCHITECT C-19670

CONSULTANT

AGENCY APPROVAL

PROJECT INFO

Project No	569-0003
Date	11.30.21

REVISIONS

No	Date	Item

ENLARGED SITE ELECTRICAL PLAN

ES1.10

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