

GENERAL NOTES

1.

CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:

A.

CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2016 CALIFORNIA ELECTRICAL CODE, 2016 CALIFORNIA FIRE CODE, 2016 CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE.

B.

AMERICANS WITH DISABILITIES ACT (ADA).
2.

SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
3.

FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
4.

MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

+15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS. (MEASURED BOTTOM OF OUTLET BOX)

+46" AFF: OUTLET ABOVE COUNTER (MEASURED TOP OF OUTLET BOX)

+48" AFF: LIGHT SWITCHES. (MEASURED TOP OF OUTLET BOX)

+48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS. (MEASURED TOP OF OUTLET BOX)

THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.

CALIFORNIA BUILDING CODE 1136A ELECTRICAL RECEPTACLE, SWITCH AND CONTROL HEIGHTS:
[1136A.1] RECEPTACLE HEIGHTS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES FROM THE TOP OF THE RECEPTACLE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. IF THE REACH IS OVER A PHYSICAL BARRIER OR AN OBSTRUCTION (FOR EXAMPLE, A KITCHEN BASE CABINET), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH SPECIFIED IN SECTION 118A.3. PHYSICAL BARRIERS AND OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25 INCHES FROM THE WALL BENEATH THE RECEPTACLE.

RECEPTACLE OUTLETS THAT DO NOT SATISFY THESE SPECIFICATIONS ARE ACCEPTABLE PROVIDED THAT COMPARABLE RECEPTACLES OUTLETS, THAT PERFORM THE SAME FUNCTIONS, ARE PROVIDED WITHIN THE SAME AREA AND ARE ACCESSIBLE. EXCEPTIONS:

1.

RECEPTACLE OUTLETS INSTALLED AS PART OF PERMANENTLY INSTALLED BASEBOARD HEATERS ARE EXEMPT
2.

REQUIRED RECEPTACLE OUTLETS SHALL BE PERMITTED IN FLOORS WHEN ADJACENT TO SLIDING PANELS OR WALLS.
3.

BASEBOARD ELECTRICAL OUTLETS USED IN A RELOCATABLE PARTITIONS, WINDOW WALLS OR OTHER ELECTRICAL CONVENIENCE FLOOR OUTLETS ARE NOT SUBJECT TO THE MINIMUM HEIGHT REQUIREMENTS.

5.

THIS SECTION SHALL NOT APPLY TO EXISTING BUILDINGS WHEN THE ENFORCING AGENCY DETERMINES THAT COMPLIANCE WITH THESE STANDARDS WOULD CREATE AN UNREASONABLE HARDSHIP.

[1136A.2] SWITCH AND CONTROL HEIGHTS: CONTROLS OR SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, ALARMS OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX OR NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING FLAT FORM. IF THE REACH IS OVER A PHYSICAL BARRIER OR AN OBSTRUCTION (FOR EXAMPLE, A KITCHEN BASE CABINET) SWITCHES AND CONTROLS SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN SECTION 1136A.3. PHYSICAL BARRIERS OR OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25 INCHES FROM THE WALL BENEATH A CONTROL

SWITCHES AND CONTROLS THAT DO NOT SATISFY THESE SPECIFICATIONS ARE ACCEPTABLE PROVIDED THAT COMPARABLE CONTROLS OR OUTLETS, THAT PERFORM THE SAME FUNCTIONS, ARE PROVIDED WITHIN THE SAME AREA AND ARE ACCESSIBLE. EXCEPTIONS:

APPLIANCES (E.G. KITCHEN STOVES, DISHWASHERS, RANGE HOODS, MICROWAVE OVENS, AND SIMILAR APPLIANCES WHICH HAVE CONTROLS LOCATED ON THE APPLIANCES.

BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.

6.

LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

POWER PLAN NOTES

- A.

FUSING: ALL FUSIBLE SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL-ELEMENT TIME DELAY TYPE FUSES SIZED AND RATED PER EQUIPMENT MANUFACTURERS' RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.
- B.

INSTALL SEPARATE NEUTRALS FOR EACH 120V BRANCH CIRCUIT.
- C.

MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY NEC ARTICLE 430 PART C AND NOT SHOWN ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.
- D.

SPARE CONDUIT FOR RECESSED PANELS: PROVIDE (1) 3/4" SPARE CONDUIT STUB UP TO ACCESSIBLE ABOVE CEILING SPACE AND/OR ACCESSIBLE SPACE BELOW FOR EVERY (3) SPARE BREAKER SPACES AS INDICATED ON PANEL SCHEDULES.
- E.

DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.
- F.

ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

LIGHTING PLAN NOTES

- A.

NIGHT LIGHT "NL" DESIGNATED LUMINAIRES IN INTERIOR LOCATIONS SHALL HAVE ONE BALLAST CONTINUOUSLY ENERGIZED. LUMINAIRES IN EXTERIOR LOCATIONS SHALL BE AUTOMATICALLY CONTROLLED TO BE ON FROM DUSK TO DAWN.
- B.

LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
- C.

REFER TO ARCHITECT'S REFLECTED CEILING PLAN(S) FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA. VERIFY FLANGE TYPES, TRIM KITS, STEM LENGTHS, ETC. FOR ALL FIXTURES PRIOR TO SUBMITTALS.
- D.

CONFIRM LOCATION OF ALL DOORS SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN OF SWITCHES.
- E.

PROVIDE UNSWITCHED HOT LEG OF ROOM LIGHTING BRANCH CIRCUIT TO EACH BATTERY POWERED EMERGENCY LIGHT AND EXIT SIGN FOR CONTINUOUS CHARGING.

COMMUNICATION PLAN NOTES

- A.

BEFORE CONSTRUCTION, COORDINATE AND VERIFY ALL DATA AND TELEPHONE LOCATIONS WITH OWNER OR ARCHITECT.
- B.

DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.
- C.

ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

CONDUIT SYSTEMS NOTES

CONDUIT SYSTEMS USED ON THIS PROJECT SHALL BE AS FOLLOWS

1.

PVC SCHEDULE 40 OR 80 - underground/below slab with GRS elbows and risers tape wrapped).
2.

ELECTRICAL METALLIC CONDUIT (EMT) - above grade/slab in building construction and where exposed above 8'-0" aff.
3.

GALVANIZED RIGID STEEL (GRS) - where exposed below 8'-0" aff. and/or where subject to physical damage.
4.

FLEXIBLE STEEL CONDUIT - above ceilings and/or concealed in building construction (seal tight flex rquired in exterior locations).
5.

MC CABLE ALLOWED FOR LIGHTING BRANCH CIRCUIT ABOVE T-BAR CEILING SPACE

REFER TO SECTIONS 16110 & 16120 OF SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONDUITS SHALL BE MINIMUM 1/2" UNLESS OTHERWISE NOTED, 3/4" FOR ALL HOME RUN CONDUITS AND WHERE ROUTED BELOW SLAB OR UNDERGROUND. CONDUIT SIZES, WHERE NOT NOTED ON THE DRAWINGS, SHALL BE SIZED FOR MAXIMUM 40% FILL PER CEC 310-6.

ADDITIONAL CONDUIT REQUIREMENTS.

- PROVIDE WHITE DECORA STYLE OUTLETS WITH WHITE COVER PLATES
- REFER TO ELECTRICAL DETAILS FOR METAL PIPE PENETRATION THRU FIRE RATED WALL. PENTRATION OF FIRE-RESISTIVE WALLS AND FLOOR CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTION 714.
- REFER TO ELECTRICAL DETAIL FOR DEVICE INSTALLATION FOR FIRE RATED WALLS.
- NO CONDUITS OR PIPING IN ANY SPACE SHALL BE EXPOSED AT THE CEILING AND WALL (COORDINATE WITH ALL DISCIPLINES PRIOR TO CONSTRUCTION).

MECHANICAL SYSTEMS

1.

MECHANICAL UNIT CONDUITS: TO PREVENT DAMAGE DUE TO VIBRATION, BOTH POWER AND CONTROL WIRING CONDUITS FEEDING EXTERIOR MECHANICAL UNITS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR WITH LIQUID TIGHT FLEXIBLE TYPE AT FINAL CONNECTION TO UNIT AND BETWEEN ROOF JACK AND DISCONNECT SWITCH WHERE DISCONNECT IS MOUNTED ON UNIT.
2.

MECHANICAL CONTROLS ROUGH-IN: PROVIDE AND INSTALL J-BOX, RING AND CONDUIT (SIZE ALL AS REQUIRED) FROM EACH MECHANICAL CONTROLS LOCATION TO CONTROLLED MECHANICAL UNITS.
3.

T-STAT J-BOXES: PROVIDE AND INSTALL 4" SQUARE JUNCTION BOX WITH 1-GANG RING AND 1/2" CONDUIT TO ACCESSIBLE CEILING SPACE ABOVE AT EACH THERMOSTAT LOCATION.
4.

EXHAUST FANS SHALL BE PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR WITH WIRING CONNECTIONS MADE BY ELECTRICAL CONTRACTOR.
5.

MECHANICAL EQUIPMENT CONTROLS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRE AND CONNECTIONS (BELOW 120 VOLT) TO AND FROM ALL MECHANICAL CONTROL DEVICES. ALL LOW VOLTAGE CONTROL WIRE SHALL BE IN CONDUIT, UNLESS OTHERWISE NOTED.
6.

PULLROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER IF REQUIRED BY SERVING UTILITY COMPANY. ANY NEW OR EXISTING COMMUNICATION OR SIGNAL RACEWAY ROUTED BETWEEN BUILDINGS, SIGNAL CABINETS, AND/OR SIGNAL CLOSETS WITH FUTURE CAPACITY SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AS WELL AS THE CALLED FOR CABLE.
7.

PROVIDE SEALTITE POWER & CONTROL CONNECTIONS TO ALL AC UNITS.
8.

ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.
9.

VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
10.

FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING.

FIRE SPRINKLER AND ALARM SYSTEMS NOTES

(DEFERRED APPROVAL)

FIRE SPRINKLER MONITORING ALARM SYSTEM IS A DEFERRED APPROVAL AND DEVICES SHOWN ON PLANS ARE FOR REFERENCE ONLY. FULL DESIGN-BUILD SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW, UPON FAVORABLE REVIEW BY THE ARCHITECT AND ENGINEER, SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE LOCAL FIRE AUTHORITY FOR APPROVAL. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BEGIN UNTIL THE LOCAL FIRE AUTHORITY HAS APPROVED THE SHOP DRAWINGS

1.

PROVIDE ALL WORK AND MATERIAL REQUIRED FOR A COMPLETE AND OPERATING FIRE ALARM SYSTEM. WORK SHALL INCLUDE (BUT NOT BE LIMITED TO):

A.

SHOP DRAWINGS

B.

SUBMITTAL FOR APPROVAL

C.

COMPLETE INSTALLATION AND TESTING

D.

SYSTEM TRAINING FOR OWNER'S REPRESENTATIVE

E.

WARRANTY
2.

SUBMIT A SEPARATE SET OF DETAILED FIRE ALARM PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS INCLUDING BUT NOT NECESSARILY LIMITED TO:

A.

CSFM LISTING #S AND MANUFACTURER MODEL #S FOR EVERY SYSTEM COMPONENT WHICH IS TO BE INTERCONNECTED AS A PART OF THIS PROJECT.

B.

SINGLE LINE, RISER AND POINT TO POINT WIRING DIAGRAMS INCLUDING BATTERY AND VOLTAGE DROP CALCULATIONS FOR THE ENTIRE SYSTEM.

C.

INDICATION OF CONDUCTOR TYPE(S), POWER-LIMITED OR NON-POWER-LIMITED SYSTEM.

D.

SCALED ELEVATION OF REMOTE GRAPHIC ANNUNCIATOR PANEL AT ENTRY. (IF REQUIRED).

E.

LIST OF PROPOSED ZONES FOR ALL INITIATING DEVICES.

F.

MATRIX OF SYSTEM OPERATION.

G.

INFORMATION AS REQUIRED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODE(S) AND GAIN APPROVAL OF AUTHORITY(IES) HAVING JURISDICTION.

FIRE ALARM SYSTEM INSTALLATION SHALL NOT BEGIN UNTIL SEPARATE PERMIT HAS BEEN OBTAINED AND ALL OF THE ABOVE HAS BEEN ACCEPTED AND SIGNED BY THE AUTHORITY(IES) HAVING JURISDICTION AND THE ARCHITECT. AFTER CONSTRUCTION, PROVIDE ACCURATE FIELD RECORD DRAWINGS TO OWNER.

3.

AS A MINIMUM, UNLESS OTHERWISE NOTED, FIRE ALARM CONTROL PANEL SHALL BE PROVIDED WITH BATTERY BACKUP, 4 ZONES AND 1 SIGNAL CIRCUIT WITH PROVISIONS FOR FUTURE EXPANSION. PROVIDE WITH DIALER (DACT) AND CONNECT TO COMMUNICATIONS SYSTEM WITH (2) DEDICATED VOICE LINES AS REQUIRED TO SEND SEPARATE AND DISTINCT SIGNALS (AS REQUIRED BY THE FIRE DEPARTMENT) TO AN APPROVED CENTRAL STATION. FIRE SPRINKLER RISER WATER FLOW AND / OR VALVE TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED BY THE SPRINKLER SYSTEM CONTRACTOR, AND WIRED BACK TO THE FACP BY THE FIRE ALARM CONTRACTOR. COORDINATE FOR PROPER VOLTAGE. ALL FIRE ALARM COMPONENTS SHALL BE CALIFORNIA STATE FIRE MARSHAL LISTED.
4.

DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. DETECTOR POWER AND SUPERVISORY WIRING AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR. MECHANICAL UNIT CONTROL (SHUTDOWN UPON DETECTOR ALARM) WIRING AND CONNECTIONS SHALL BE MADE BY MECHANICAL CONTRACTOR.
5.

APPROVED NOTIFICATION APPLIANCES FOR THE HEARING IMPAIRED SHALL BE INSTALLED IN ACCORDANCE WITH NFPA REQUIREMENTS IN THE FOLLOWING AREA: RESTROOMS, CORRIDORS, OCCUPIED ROOMS WHERE AMBIENT NOISE IMPAIRS HEARING OF THE FIRE ALARM, LOBBIES, MEETING ROOMS, AND OTHER AREA FOR COMMON USE. (ONLY REQUIRED IF PROJECT COMPLY TO ITEM 6 BELOW)

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E2.2	ENLARGED UPS POWER AND COMMUNICATION FLOOR PLAN
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E4.1-E4.3	ELECTRICAL DETAILS
E5.1	LIGHTING ENERGY COMPLIANCE FORMS



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Drawing Status:

Contract Document

Revision Summary:

Project:

New Dispatch Center

Tulare County Sheriff & Fire

5300 West Tulare Avenue

Visalia, California

Sheet Description:

Electrical General Notes

Date:

8/8/2020

Project:

19-700

Scale:

NOTED

Sheet No.:

E0.1

Of x Sheets

120/208V, 3PH, 4W

MAIN: MAIN LUG ONLY

SPACES: FULL SIZE BOLT-ON CB SPACES

AIC RATING: 10 KAIC PANEL

(N) PANEL

PD

SURFACE MOUNT, NEMA 1

LOCATION: ELECTROOM ROOM 05

WITH EQUIPMENT GND BUS

CKT	%VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT	%VD
1.04%	50			L	1	LIGHTING INVERTER	20	1	12	1500 2080			10	2	20	FIRE DISPATCH WATER HEATER WH-1	2	M		25	0.52%	
0.16%	50			L	3	SHERIFF DISPATCH, SUPERVISOR OFFICE	20	1	12		771 2080		10				*	4	M		25	0.52%
0.66%	55			L	5	FIRE DISPATCH SUPERVISOR OFFICE	20	1	12			435 2080	10	2	20	SHERIFF DISPATCH WATER HEATER, WH-2	6	M		65	1.34%	
1.14%	75			L	7	HALL STAFF, QUIET, STORAGE	20	1	12	553 2080			10				*	8	M		65	1.34%
1.78%	45			R	8	CONVENIENCE OUTLETS - SHERIFF DISPATCH	20	1	12		1440 2080		10	2	20	BREAK ROOM NORTH WATER HEATER, WH-3	10	M		75	1.55%	
3.30%	80			R	11	SHERIFF DISPATCH - PRINTER	20	1	12			1500 2080	10				12	M		75	1.55%	
2.60%	75			R	13	CONVENIENCE OUTLETS - HALL STAFF, STORAGE, QUIET ROOM	20	1	12	1260 2080			10	2	20	BREAK ROOM SOUTH WATER HEATER, WH-4	14	M		95	1.96%	
2.27%	55			N	15	CONVENIENCE OUTLETS - FIRE DISPATCH	20	1	12		1500 2080		10				16	M		95	1.96%	
2.48%	60			N	17	FIRE DISPATCH - PRINTER	20	1	12			1500 3453	8	2	35	DS-1 UNIT	18	M	2	50	1.08%	
2.48%	60			N	19	SHERIFF DISPATCH COUNTER	20	1	12	1500 3453			8				20	M		50	1.08%	
2.48%	60			N	21	SHERIFF DISPATCH COUNTER	20	1	12		1500 1820		10	2	20	DS-2 UNIT	22	M		100	1.81%	
1.24%	30			N	23	FIRE DISPATCH COUNTER	20	1	12		1500 1820		10				24	M		100	1.81%	
1.24%	30			N	25	FIRE DISPATCH COUNTER	20	1	12	1500 100			12	1	20	SMOKE DUCT DETECTORS	26	M		100	0.28%	
0.89%	90	1		R	27	STAFF ROOM CONTROLLED RECEIPTACLE	20	1	12		560 900		12	1	20	VAU UNITS	28	M	2	55	0.91%	
2.23%	75			R	29	SHERIFF DISPATCH SUPERVISOR OFFICE	20	1	12		1080 2100		10	2	20	DS-3 UNIT (RADIO ROOM 2ND FLOOR)	30	M	2	105	2.19%	
1.19%	40			N	31	FIRE DISPATCH, SUPERVISOR OFFICE	20	1	12	1080 2100			10				32	M		105	2.19%	
2.33%	90			N	33	STAFF ROOM NORTH COUNTER	20	1	10		1500			1	20	SPARE	34					
0.03%	1			N	35	STAFF ROOM NORTH COUNTER	20	1	10		1500 360		12	1	20	ELECTRICAL ROOM	36	R		20	0.20%	
2.33%	90			N	37	STAFF ROOM SOUTH COUNTER	20	1	10	1500 20100			3/0	3	200	60KW UPS	38			25	0.27%	
2.33%	90			N	39	STAFF ROOM SOUTH COUNTER	20	1	10		1500 21700		3/0				40			25	0.33%	
2.97%	90			N	41	STAFF ROOM REFRIGERATORS	20	1	12			1200 17800	3/0				42			25	0.27%	
1.86%	75			R	43	SHERIFF SUPERVISOR WORKSTATION	20	1	12	900 900			12	1	20	FIRE SUPERVISOR WORKSTATION	44	R		40	0.99%	
0.99%	40			R	45	SHERIFF WORKSTATION 1	20	1	12		900 900		12	1	20	FIRE WORKSTATION 1	46	R		45	1.11%	
0.99%	40			R	47	SHERIFF WORKSTATION 2	20	1	12			900 900	12	1	20	FIRE WORKSTATION 2	48	R		45	1.11%	
1.24%	50			R	49	SHERIFF WORKSTATION 3	20	1	12	900 900			12	1	20	FIRE WORKSTATION 3	50	R		60	1.49%	
1.24%	50			R	51	SHERIFF WORKSTATION 4	20	1	12		900 900		12	1	20	FIRE WORKSTATION 4	52	R		60	1.49%	
1.61%	65			R	53	SHERIFF WORKSTATION 5	20	1	12			900 900	12	1	20	FIRE WORKSTATION 5	54	R		60	1.49%	
0.62%	25			R	55	SHERIFF WORKSTATION 6	20	1	12	900 900			12	1	20	FIRE WORKSTATION 6	56	R		70	1.73%	
0.62%	25			R	57	SHERIFF WORKSTATION 7	20	1	12		900 900		12	1	20	SHERIFF WORKSTATION 8	58	R		40	0.99%	
0.99%	40			R	59	SHERIFF WORKSTATION 9	20	1	12			900 900	12	1	20	SHERIFF WORKSTATION 10	60	R		55	1.36%	
1.36%	55			R	61	SHERIFF WORKSTATION 11	20	1	12	900							62					
					63	SPACE											64					
					65	SPACE											66					
					67	SPACE											68					
					69	SPACE											70					
					71	SPACE											72					

PANEL NOTES:

1. PROVIDE GFCI BREAKER

2. PROVIDE SHUNT TRIP BREAKER

VOLTAGE DROP AT PANEL = 2.04%
BRANCH CIRCUIT VD TO BE <= 2.06%
TO MAINTAIN LESS THAN 5% VD TOTAL

CON: 46688 44331 43811

25%: 388 193 110

SUB: 0 0 0

TOT: 47074 44524 43921

AMPB: 392 371 365

LOAD (VA) LOAD TYPE LEGEND

23100 R RECEPTACLE

2792 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)

32096 M MECHANICAL

0 K KITCHEN APPLIANCE

17280 N NON-CONTINUOUS MISC.

0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

BUS RATING: 200 120/208V, 3PH, 4W										(N) PANEL										SURFACE MOUNT, NEMA 1									
MAIN: MAIN LUG ONLY										PRR										LOCATION: 2ND FLOOR RADIO ROOM									
SPACES: 18 FULL SIZE BOLT-ON CB SPACES																				WITH EQUIPMENT GND BUS									
AIC RATING: 10 KAIC PANEL										CONNECTED VA																			
CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD									
0.55%	20		N	1	RADIO OUTLET	20	1	12	1000			12	1	20	RADIO OUTLET	2	N		20	0.55%									
									1000																				
0.66%	25		N	3	RADIO OUTLET	20	1	12		1000		12	1	20	RADIO OUTLET	4	N		30	0.83%									
										1000																			
1.29%	30		N	5	RADIO OUTLET	30	1	10			2500	10	1	30	RADIO OUTLET	6	N		30	1.29%									
											2500																		
				7	SPACE				2500			10	1	30	RADIO OUTLET	8	N		30										
1.29%	30		N	9	RADIO OUTLET	30	1	10			2500					SPACE	10												
				11	SPACE											SPACE	12												
				13	SPACE											SPACE	14												
				15	SPACE											SPACE	16												
				17	SPACE											SPACE	18												
								CON:	4500	4500	5000																		
								25K:	0	0	0																		
								SUB:	0	0	0																		
								TOT:	4500	4500	5000																		
								AMPS:	38	38	42																		
<div>VOLTAGE DROP AT PANEL = 2.84% BRANCH CIRCUIT VD TO BE <= 2.16% TO MAINTAIN LESS THAN 5% VD TOTAL</div>																													
										<div>LOAD (VA) LOAD TYPE LEGEND 0 R RECEPTACLE 0 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2) 0 M MECHANICAL 0 K KITCHEN APPLIANCE 11500 N NON-CONTINUOUS MISC. 0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)</div>																			

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EXPIRES: 06/30/21
THOMA #19-8135

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Drawing Status:

Contract Document

Revision Summary

Project

**New Dispatch Center
Tulare County Sheriff & Fire
5300 West Tulare Avenue
Visalia, California**

Sheet Description

Panel Schedule

Date: 8/8/2020

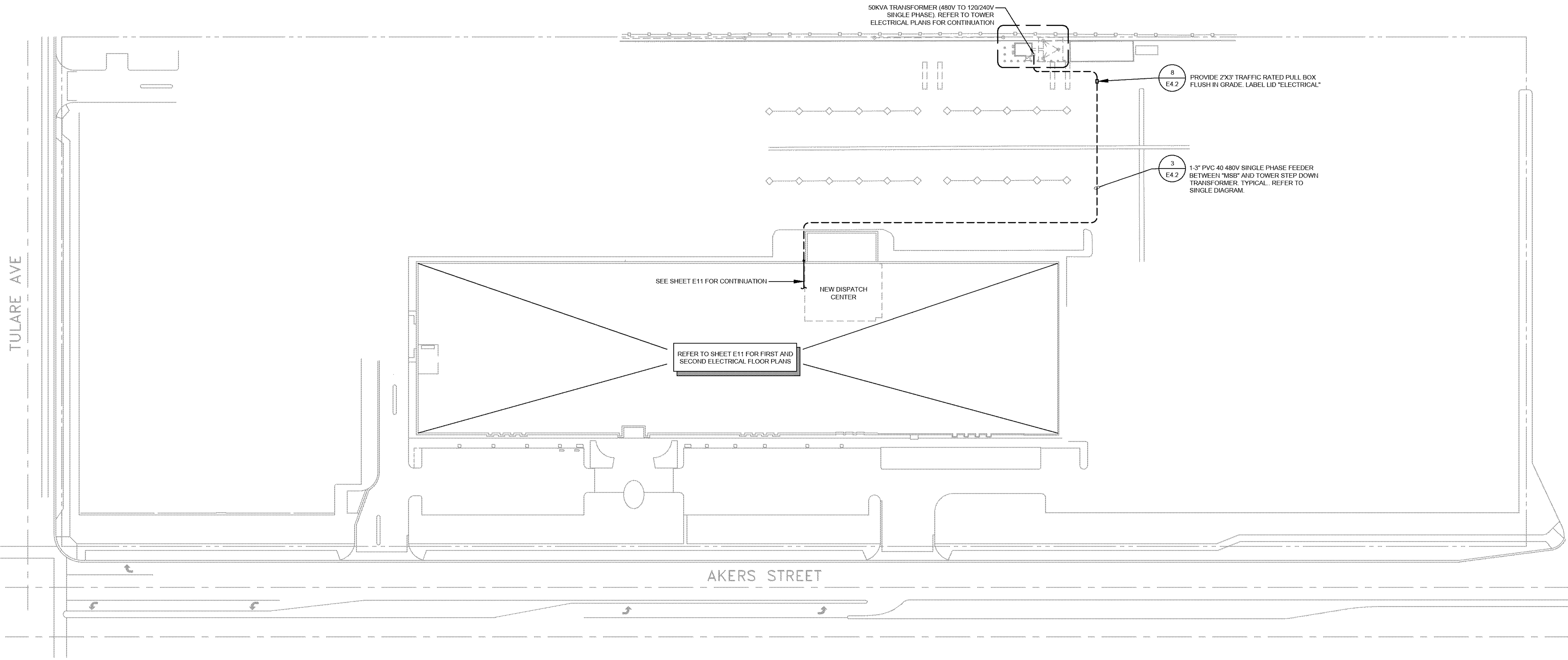
Project: 19-700

Scale: NOTED

Sheet No.

EO.3

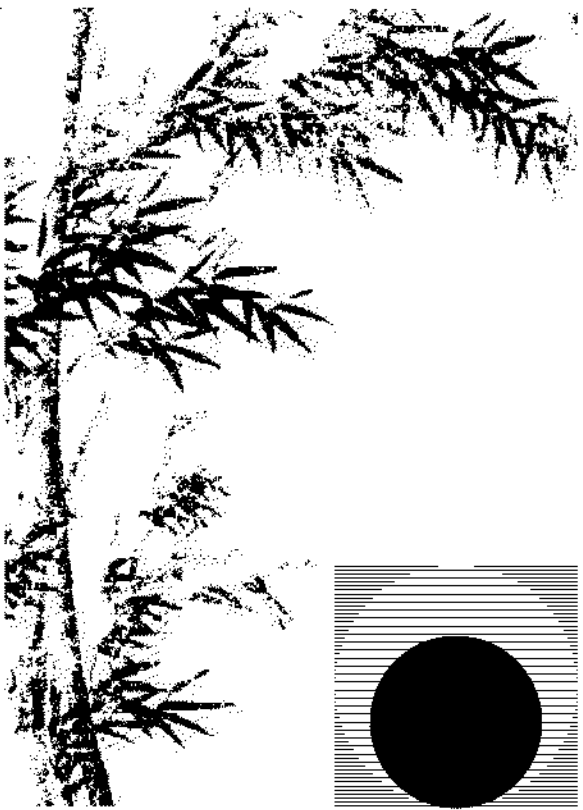
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ELECTRICAL SITE PLAN

SCALE: 1" = 50'-0"

NOTE: REFER TO SHEET SD1 AND SD2 FOR ADDITIONAL REQUIREMENTS

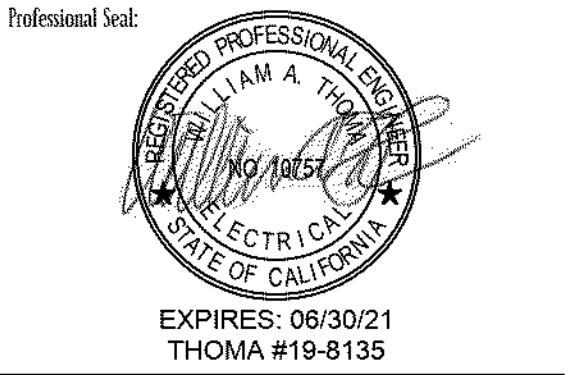


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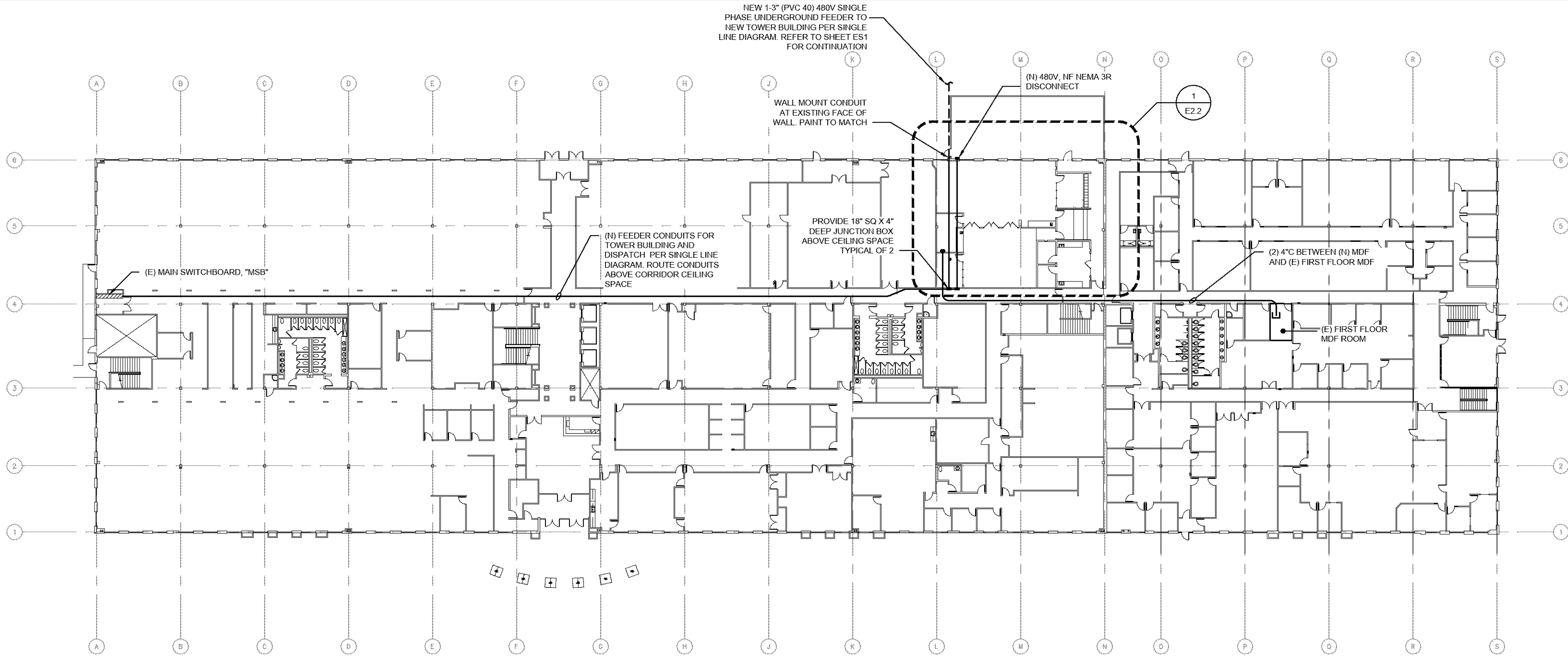
Drawing Status:
Contract Document
Revision Summary:

Project:
New Dispatch Center
Tulare County Sheriff & Fire
5300 West Tulare Avenue
Visalia, California

Sheet Description:
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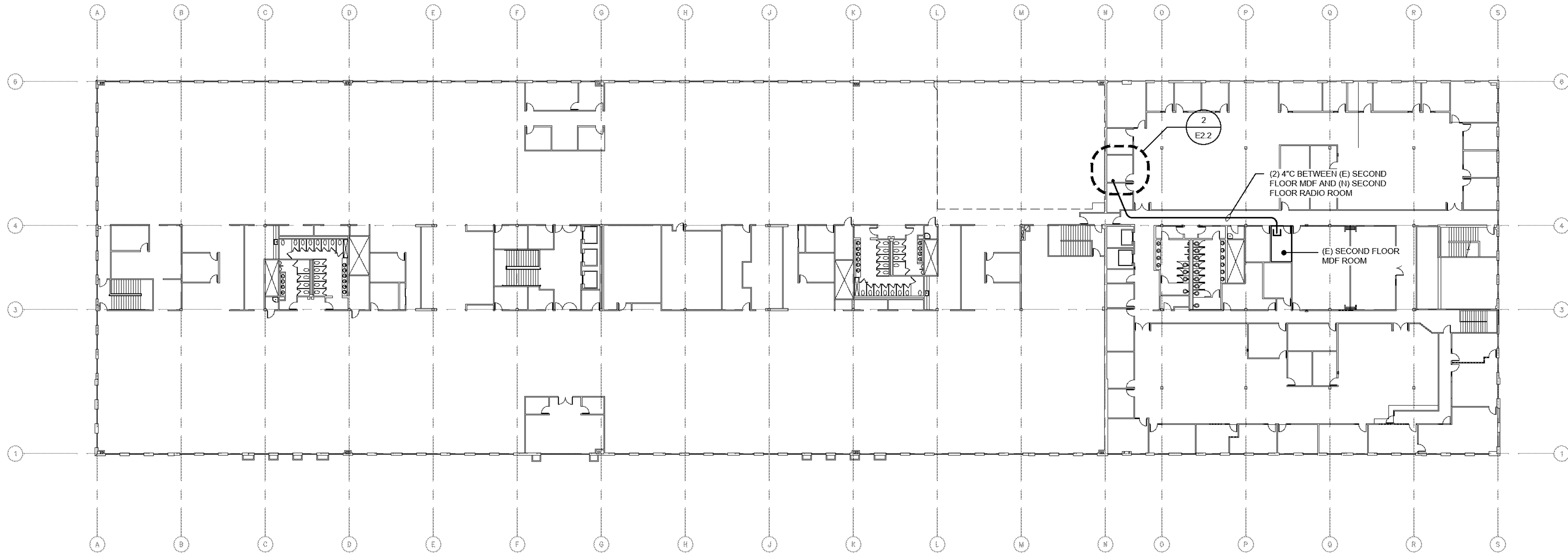
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Project:	19-700
Scale:	NOTED
Sheet No.:	ES.1
Of x Sheets	

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OVERALL ELECTRICAL FIRST FLOOR PLAN

SCALE: 1" = 30'-0"



OVERALL ELECTRICAL SECOND FLOOR PLAN

SCALE: 1" = 30'-0"



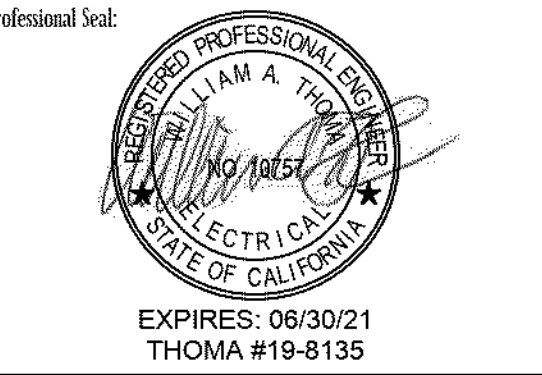
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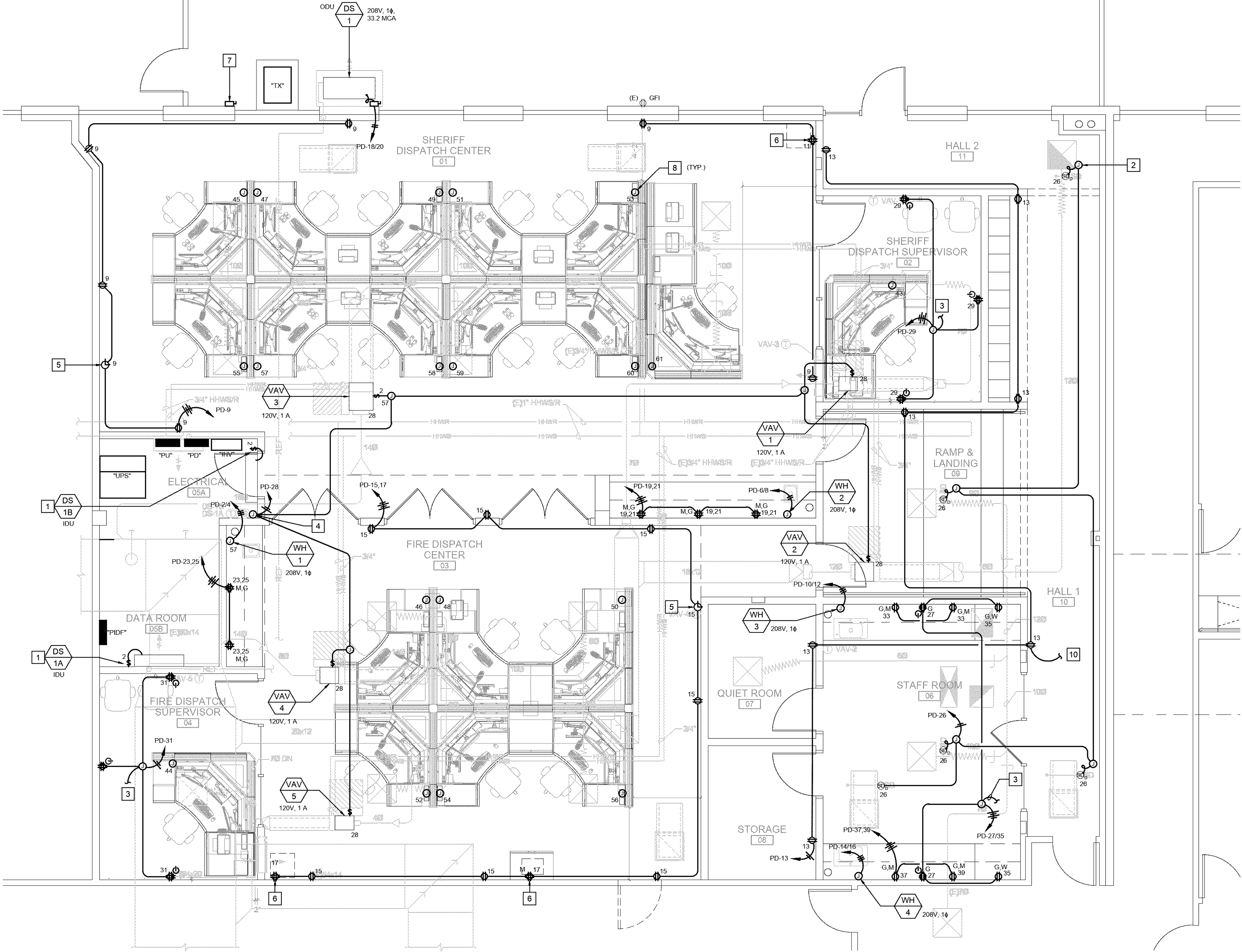
Drawing Status:
Contract Document
Revision Summary:

Project:
New Dispatch Center
Tulare County Sheriff & Fire
5300 West Tulare Avenue
Visalia, California

Sheet Description:
Overall Electrical Floor Plans

Date:	8/8/2020
Project:	19-700
Scale:	NOTED

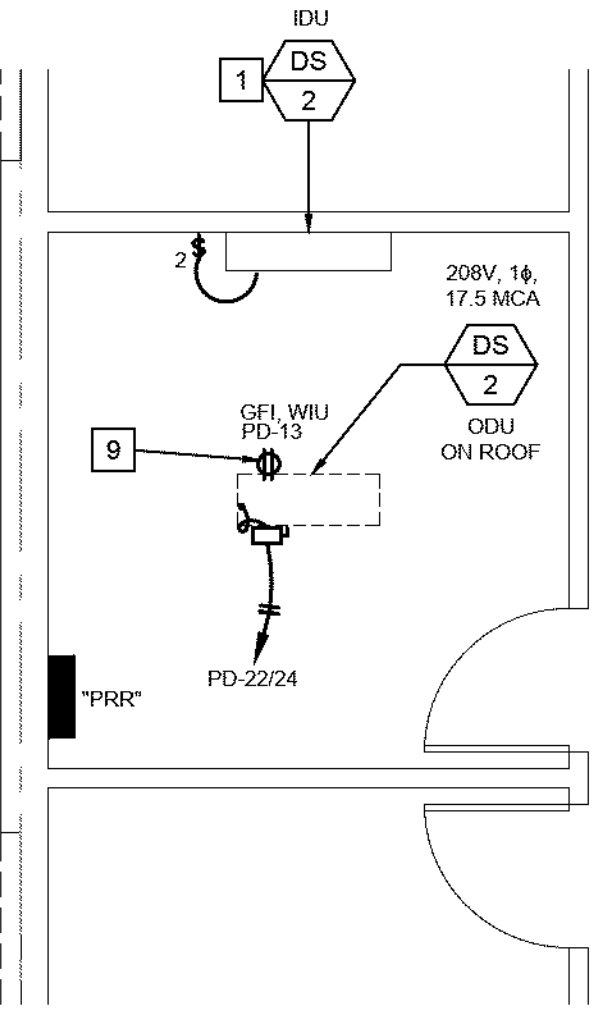
Sheet No.:
E1.1
Of x Sheets



1 ENLARGED POWER, MECHANICAL, PLUMBING CONNECTION PLAN
SCALE: 1/4" = 1'-0"

REFERENCE NOTES

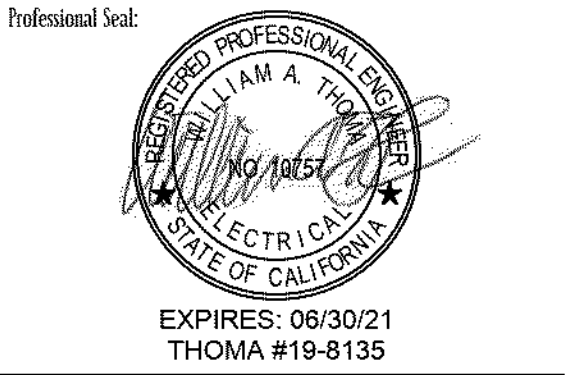
1. OUTDOOR UNIT POWERS INDOOR UNIT. PROVIDE LINE VOLTAGE WIRES BETWEEN INDOOR AND OUTDOOR UNIT.
2. PROVIDE 120V AND FIRE ALARM CONNECTION TO SMOKE DUCT DETECTOR PER MECHANICAL PLANS.
3. TO POWER SUPPLY FOR CONTROLLED RECEPTACLE. REFER TO LIGHTING CONTROL PLANS.
4. PROVIDE 120V CONNECTION TO TEMPERATURE SENSOR PER MECHANICAL PLANS.
5. CLOCK OUTLET. REFER TO ARCHITECT ELEVATION FOR EXACT LOCATION PRIOR TO ROUGH-IN.
6. CONNECTION TO PRINTER.
7. 480V, 3Ø DISCONNECT WITH LOCKABLE HANDLE PER SINGLE LINE DIAGRAM.
8. VERIFY POINT OF CONNECTION AT WORK STATION. ROUTE CONDUITS UNDER RAISE FLOOR. HOMERUN BRANCH CIRCUIT TO PANEL "PD." THIS CONNECTION IS FOR (2) CONVENIENCE OUTLETS AND (1) CONSOLE POWER STRIP. COORDINATE WITH OWNER'S VENDOR.
9. MOUNT TO OUTLET TO OUTDOOR UNIT.
10. BRANCH CIRCUIT UP TO ROOF MOUNTED OUTLET.



2 ELECTRICAL ENLARGED PLAN AT RADIO ROOM [21]
SCALE: 1/4" = 1'-0"

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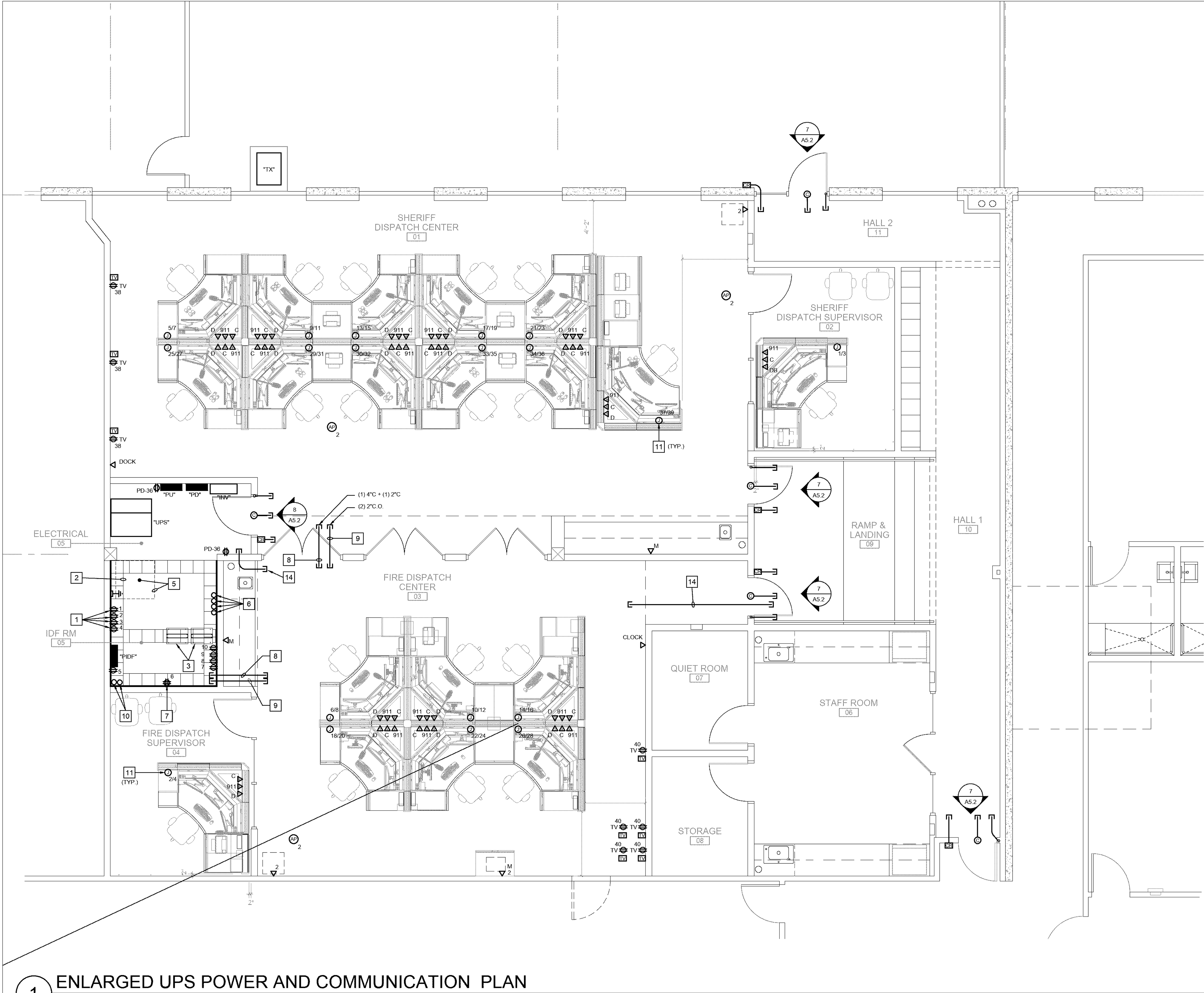
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Contract Document
Revision Summary:

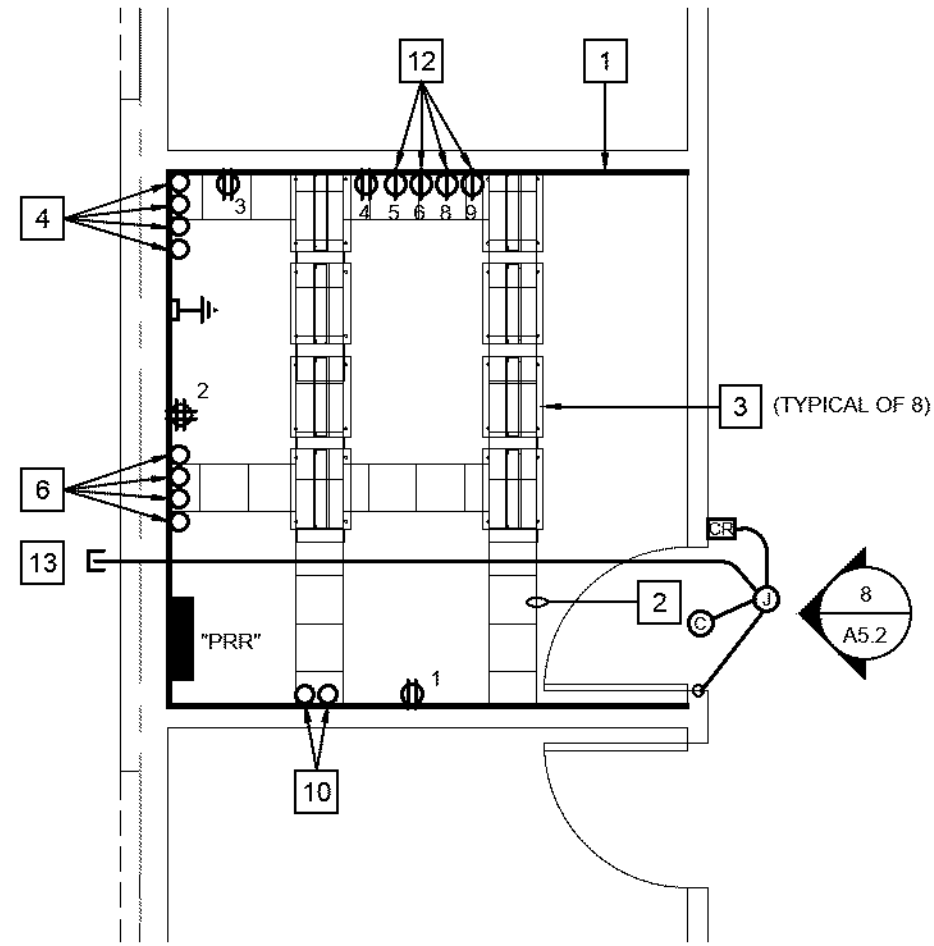
Project:
New Dispatch Center
Tulare County Sheriff & Fire
5300 West Tulare Avenue
Visalia, California
Sheet Description:
Enlarged Power, Mechanical,
& Plumbing Connection Plan

Date:	8/8/2020
Project:	19-700
Scale:	NOTED
Sheet No.:	E2.1
Of x Sheets	



REFERENCE NOTES

1. PROVIDE 3/4" FIRE RATED BACKBOARD (PAINTED) PLYWOOD 8FT HEIGHT INSTALLED ON THREE WALL AS SHOWN.
2. 12" WIDE OVERHEAD LADDER TRY. INSTALLED/FURNISHED BY OWNER'S VENDOR.
3. STANDARD 7FT UNIVERSAL TWO POST RACK WITH VERTICAL WIRE MANAGEMENT. INSTALLED/FURNISHED BY OWNER'S VENDOR.
4. STUB (4) 4" (EMT) TO ROOF FOR COAXIAL FEED LINE PROVIDE WEATHERHEAD CAP.
5. AT&T VIPR CABINET BY AT&T.
6. (4) 4" (EMT) CONDUIT BETWEEN SECOND FLOOR RADIO ROOM AND IDF.
7. CONNECTION TO DOOR ACCESS CONTROL. REFER TO DETAILS 7 AND 8 ON SHEET
8. EMT CONDUIT SLEEVE(S) STUB TO RAISE FLOOR.
9. EMT CONDUIT SLEEVES UP TO ACCESSIBLE CEILING SPACE.
10. (2) 4" (EMT) TO SECOND FLOOR DATA ROOM.
11. VERIFY POINT OF CONNECTION AT EACH WORK STATION. PROVIDE (2) DEDICATED CIRCUITS EACH FOR CUSTOMER EQUIPMENT (5) POWER STRIPS. ROUTE BRANCH BELOW RAISE FLOOR. HOMERUN BRANCH CIRCUIT TO PANEL UP "PU."
12. PROVIDE NEMA 15-30R OUTLETS.
13. STUB 1" CONDUIT DOWN TO HALL 1 ROOM 10 ACCESSIBLE CEILING SPACE FOR DOOR ACCESS LOW VOLTAGE WIRING TO ROOM 21.
14. STUB 2" CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING SPACE FOR DOOR ACCESS LOW VOLTAGE WIRING.

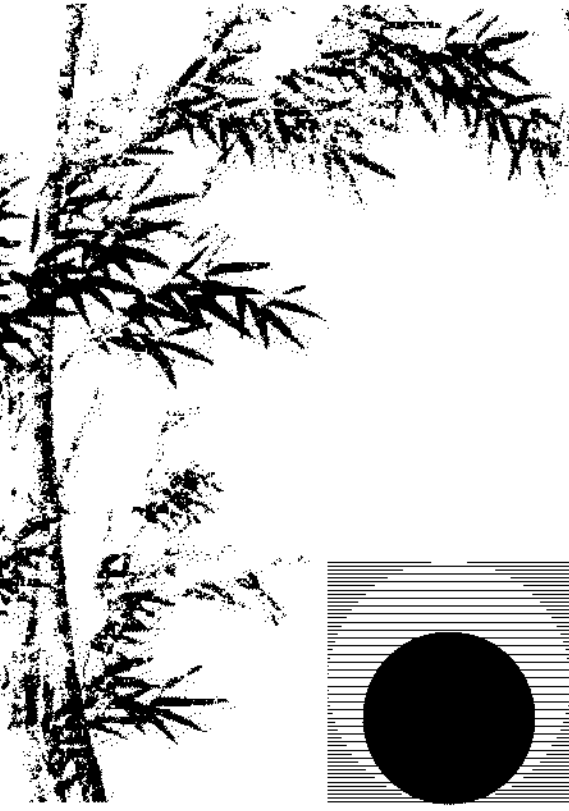


ELECTRICAL
ENLARGED PLAN AT RADIO ROOM [21]

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

1 ENLARGED UPS POWER AND COMMUNICATION PLAN

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



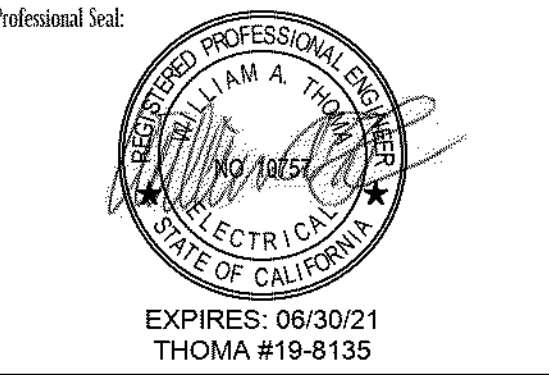
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Contract Document

Revision Summary:

Project:
New Dispatch Center
Tulare County Sheriff & Fire
5300 West Tulare Avenue
Visalia, California

Sheet Description:
Enlarged UPS Power and
Communication Plan

Date: 8/8/2020
Project: 19-700
Scale: NOTED

Sheet No:

E2.2

Of x Sheets

LIGHTING CONTROLS SEQUENCE OF OPERATIONS

SPACE	LIGHTING CONTROL SEQUENCE
HALLWAYS	<ul style="list-style-type: none">OCCUPANCY: LIGHTS AUTOMATICALLY TURN ONTO 100% WHEN THE USER ENTERS THE ROOM AND 15 MINUTES AFTER SPACE HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY GO TO 50%.MANUAL DIMMER WILL ALLOW OCCUPANT TO CONTROL EACH ZONE. WALL STATION SHALL HAVE ONE BUTTON PER ZONE AS CALLED OUT ON PLAN.EMERGENCY LIGHTING SHALL TURN ON WHEN NORMAL POWER SHUTS OFF OR UPON ACTIVATION OF EMERGENCY ALARM
QUIET AND STAFF ROOM	<ul style="list-style-type: none">OCCUPANCY: LIGHTS AUTOMATICALLY TURN ONTO 100% WHEN THE USER ENTERS THE ROOM AND 15 MINUTES AFTER THE ROOM HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF.MANUAL DIMMER WILL ALLOW OCCUPANT TO CONTROL THE LIGHTS
OFFICES	<ul style="list-style-type: none">ALL OTHER LIGHTS MUST BE TURNED ON MANUALLY BY OCCUPANTMANUAL DIMMER WILL ALLOW OCCUPANT TO CONTROLLIGHTS WILL SHUT-OFF WHEN SPACES VACATED VIA OCCUPANCY SENSOR.
STORAGE	<ul style="list-style-type: none">OCCUPANCY: USER MANUALLY TURNS ON LIGHTS UPON ENTRY. 15 MINUTES AFTER THE ROOM HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF.MANUAL DIMMER WILL ALLOW OCCUPANT TO CONTROL THE LIGHTS
DISPATCH ROOMS	<ul style="list-style-type: none">ALL OTHER LIGHTS MUST BE TURNED ON MANUALLY BY OCCUPANTNUMBER OF ZONES OF LIGHTING CONTROL AS NOTED ON PLANSMANUAL DIMMER WILL ALLOW OCCUPANT TO CONTROL EACH ZONE.LIGHTS IN DAYLIGHT ZONES (WHERE NOTED ON PLANS) WILL AUTOMATICALLY DIM A MINIMUM OF 85% WHEN AVAILABLE DAYLIGHT IS 150% OF DESIGN ILLUMINATION.LIGHTS WILL SHUT-OFF WHEN SPACES VACATED VIA OCCUPANCY SENSOR.

LUTRON SERVICE DESCRIPTION:

THE COUNTS OF SERVICES BELOW ARE TO BE INCLUDED AS PART OOF THE PROJECTS SCOPE OF WORK AND SPECIFIED INTO THE WRITTEN SPEC DOCUMENTS.

- ON SITE PRE-WIRE VISIT (LSC-PREWIRE): ONSITE VISIT WITH ELECTRICAL CONTRACTOR TO DISCUSS LOGISTICAL CONSTRUCTION CONSIDERATION INCLUDING WIRING AND MOUNTING OF SYSTEM DEVICES, CONSTRUCTION SCHEDULE, AND LUTRON DOCUMENTATION.
- TITLE 24 ACCEPTANCE TEST VISIT (LSC-SPV-DOC-T24): ACCEPTANCE TESTING BY A LUTRON CERTIFIED LIGHTING CONTROL ACCEPTANCE TEST TECHNICIAN (CLCATT) TO FULFILL THE REQUIRED TITLE 24 INTERIOR LIGHTING CONTROL TEST.
- FACTORY ONSITE START UP FOR STANDALONE QS (LSC-OS-SU-QS)
- FACTORY ONSITE START UP FOR VIVE SYSTEM (LSC-OS-SU-VIVE)

QUANTITY AND LOCATION OF ALL SENSORS ARE SHOWN FOR DESIGN INTENT. LIGHTING CONTROL MANUFACTURER SHALL SUBMIT COMPLETE SHOP DRAWING SHOWING PREFERRED LOCATION AND QUANTITY OF SENSORS REQUIRED FOR OPTIMUM SYSTEM PERFORMANCE.

PROVIDE OCCUPANCY SENSOR, WALL OR CEILING MOUNTED AS SHOWN ON THIS PLAN WITH TYPE AND MODEL THAT CAN ACCOMMODATE THE SPACE REQUIREMENT FOR THE ROOM OR AREA.

(EM) LIGHTS AND EXIT SIGNS SHOWN ARE CONNECTED TO EMERGENCY LIGHTING INVERTER. PROVIDE SEPARATE BRANCH CIRCUIT RACEWAY.

LUTRON LEGEND

- 4T
16

4T
16
- LUTRON #QSN-4T16-S ENERGI SAVR NODE 0-10V AND SOFTSWITCH (MOUNT ABOVE ACCESSIBLE CEILING SPACE)
- 4T
16

4T
16
- LUTRON #QSMX-4W-C QS SENSOR MODULE WIRED INPUTS ONLY (CEILING MOUNT)
- 4T
16

4T
16
- LUTRON #MSCL-OP153M-WH MAESTRO PASSIVE INFRARED SENSOR OCCUPANCY SENSOR WITH C.L. WALL DIMMER (600W INCANDESCENT/HALOGEN, 150W CFL/LED)
- 4T
16

4T
16
- LUTRON #MS-Z101-WH MAESTRO PASSIVE INFRARED SENSOR OCCUPANCY SENSOR WITH DIMMER (0-10V), (WALL MOUNT)
- 4T
16

4T
16
- LUTRON #QSW2-2BRL-WH QS 2-BUTTON WITH RAISE/LOWER (WALL MOUNT)
- 4T
16

4T
16
- LUTRON #QSW2-2BRL-WH QS 5-BUTTONS WITH RAISE/LOWER (WALL MOUNT)
- 4T
16

4T
16
- LUTRON #EC-DR-WH CEILING MOUNT DAYLIGHT SENSOR WITH INFRARED RECEIVER
- 4T
16

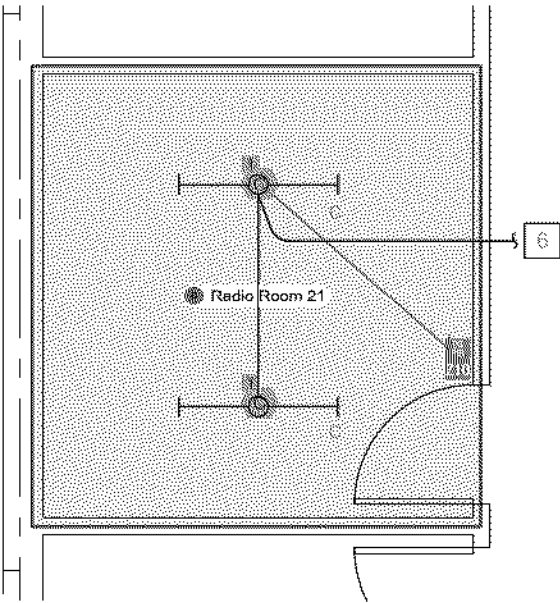
4T
16
- LUTRON #LOX-CDT-500-WH CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR 500SF
- 4T
16

4T
16
- LUTRON #LRF2-OC42B-P RADIO PWR SAVR WIRELESS CEILING OCCUPANCY SENSOR
- 4T
16

4T
16
- LVS, INC. #LUT-ALCR-D UL924 EMERGENCY BYPASS RELAY FOR 0-10V FIXTURES. MOUNT ABOVE ACCESSIBLE CEILING SPACE.
- 4T
16

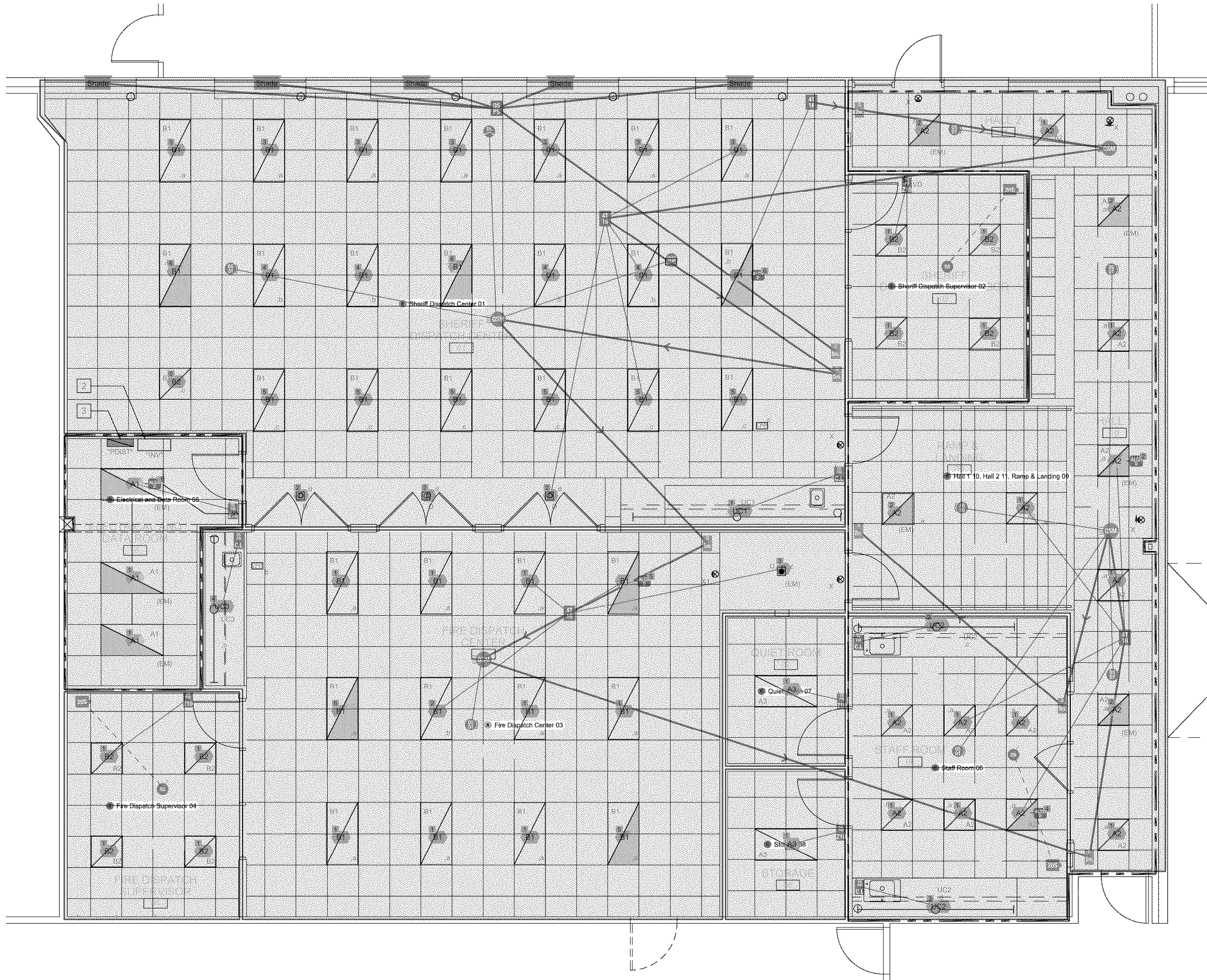
4T
16
- LUTRON #RMS-20R-DV-B PWP/PAK RELAY MODULE TO CONTROL 20A RECEPTACLES. (MOUNT ABOVE ACCESSIBLE CEILING SPACE)
- 4T
16

4T
16
- LUTRON #QSPS-10P/NL SMART PANEL FOR SIVOIA QS WINDOW SHADES. (MOUNT ABOVE T-BAR CEILING)



LIGHTING ENLARGED PLAN AT RADIO ROOM [21]

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



1 ENLARGED LIGHTING CONTROL PLAN

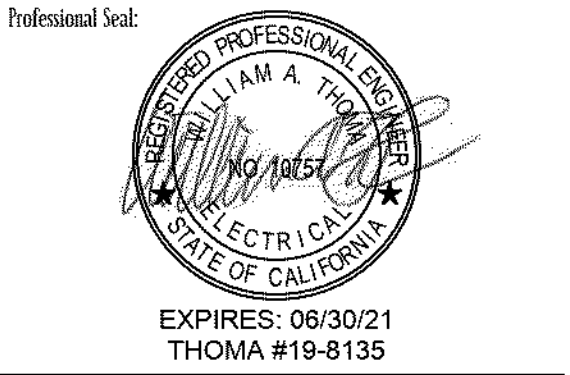
SCALE: 1/4" = 1'-0"

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Revision Summary:

Project:

New Dispatch Center
Tulare County Sheriff & Fire

5300 West Tulare Avenue
Visalia, California

Sheet Description:

Enlarged Lighting Control Plan

Date:	8/8/2020
Project:	19-700
Scale:	NOTED
Sheet No.:	E2.3

Of x Sheets

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1

ENLARGED LIGHTING PLAN

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

2

LIGHTING ENLARGED PLAN AT RADIO ROOM [21]

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

REFERENCE NOTES

- REFER TO LIGHTING CONTROL PLANS FOR CONTROLLED RECEPTACLE CONTROLS FOR THIS ROOM.
- 1000W LIGHTING INVERTER, INV. (LVS #CEPS-A-1000)
- SUB-PANEL.
- NOT USED.
- PROVIDE LOW VOLTAGE CONNECTION TO WINDOW BLINDS PER MANUFACTURER INSTALLATION. REFER TO LIGHTING CONTROL PANELS FOR SWITCH CONTROL AND ADDITIONAL ACCESSORIES.
- EXTEND EXISTING BRANCH CIRCUIT TO NEW LIGHTS.

DAYLIT ZONE LEGEND

- PRIMARY DAYLIT ZONE
- SECONDARY DAYLIT ZONE

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	VOLTAGE	MAX. VA.	LAMPING	MOUNTING	DESCRIPTION
A1	CREE INC	C TR B FP24 50L 40K WH	120	50	LED 40K	T-BAR CEILING	2'X4' LED FLAT PANEL 0-10V DIMMING
A2	CREE INC	C TR B FP22 40L 40K WH	120	40	LED 40K	T-BAR CEILING	2'X2' LED FLAT PANEL 0-10V DIMMING TO 10% WHITE FINISH
A3	LA LIGHTING	GHL320 40L 4L FSW PA1DRDM UNV 2 840	120	31.4	LED 40K	T-BAR CEILING	2'X2' LED FLAT PANEL 0-10V DIMMING TO 10%
B1	LA LIGHTING	GIC (2X4) 4 4L PDA DRDM UNV 2 840	120	28.5	LED 40K	T-BAR CEILING	2'X4' LED BASKET TROFFER 0-10V DIMMING TO 10% ALUMINIUM/SILVER FINISH
B2	LA LIGHTING	GIC (2X2) 4 2L PDA DRDM UNV 2 840	120	24.3	LED 40K	T-BAR CEILING	2'X2' LED BASKET TROFFER 0-10V DIMMING TO 10% ALUMINIUM/SILVER FINISH
C	CREE INC	C-STRIP A LIN4 43L 40K WH	120	38	LED 40K	STEP LIGHT	4' LINEAR STRIP LIGHT 0-10V DIMMING TO 10%
D	CREE INC	S DL6 15L 40K W/ S DL6T M SS C	120	15	LED 40K	SURFACE	6" SURFACE EXTERIOR DOWNLIGHT 0-10V DIMMING TO 10%
UC 1	CREATIVE SYSTEMS LIGHTING	(5)ECL-32" WH	120	120	LED 30K	UNDER CABINET	160" LED UNDERCABINET LIGHT
UC 2	CREATIVE SYSTEMS LIGHTING	(3)ECL-32" WH + (1)ECL-24	120	90	LED 30K	UNDER CABINET	120" LED UNDERCABINET LIGHT
UC 3	CREATIVE SYSTEMS LIGHTING	(3)ECL-32" WH + (1)ECL-16	120	84	LED 30K	UNDER CABINET	112" LED UNDERCABINET LIGHT
X	MOBERN LIGHTING	MEBELX W G W AC 1 2C	120	84	LED	CEILING	LED EDGE LIT EXIT SIGN WITH DUAL CIRCUIT OPTION. REFER TO CHEVRON DIRECTION ON PLANS
XM	COLE LIGHTING	L2600W 1 WHT FG 40K SC	120	9	LED	SURFACE	EMERGENCY LIGHTING.

LIGHTING FIXTURE SCHEDULE NOTES

- A. EXACT LOCATIONS: BEFORE CONSTRUCTION, VERIFY WITH ARCHITECT EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT FIXTURES. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS AS APPLICABLE.
- B. FIXTURE BRANCH CIRCUIT THROUGH-WIRING: VERIFY AND COMPLY WITH FIXTURE MANUFACTURER RESTRICTIONS AS DETERMINED BY UL. & NEC.

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Consultant:



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New Dispatch Center
Tulare County Sheriff & Fire
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Sheet Description:

Enlarged Lighting Plan &
Fixture Schedule

Date: 8/8/2020

Project: 19-700

Scale: NOTED

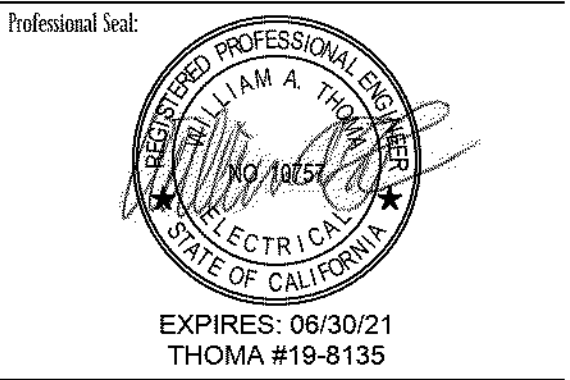
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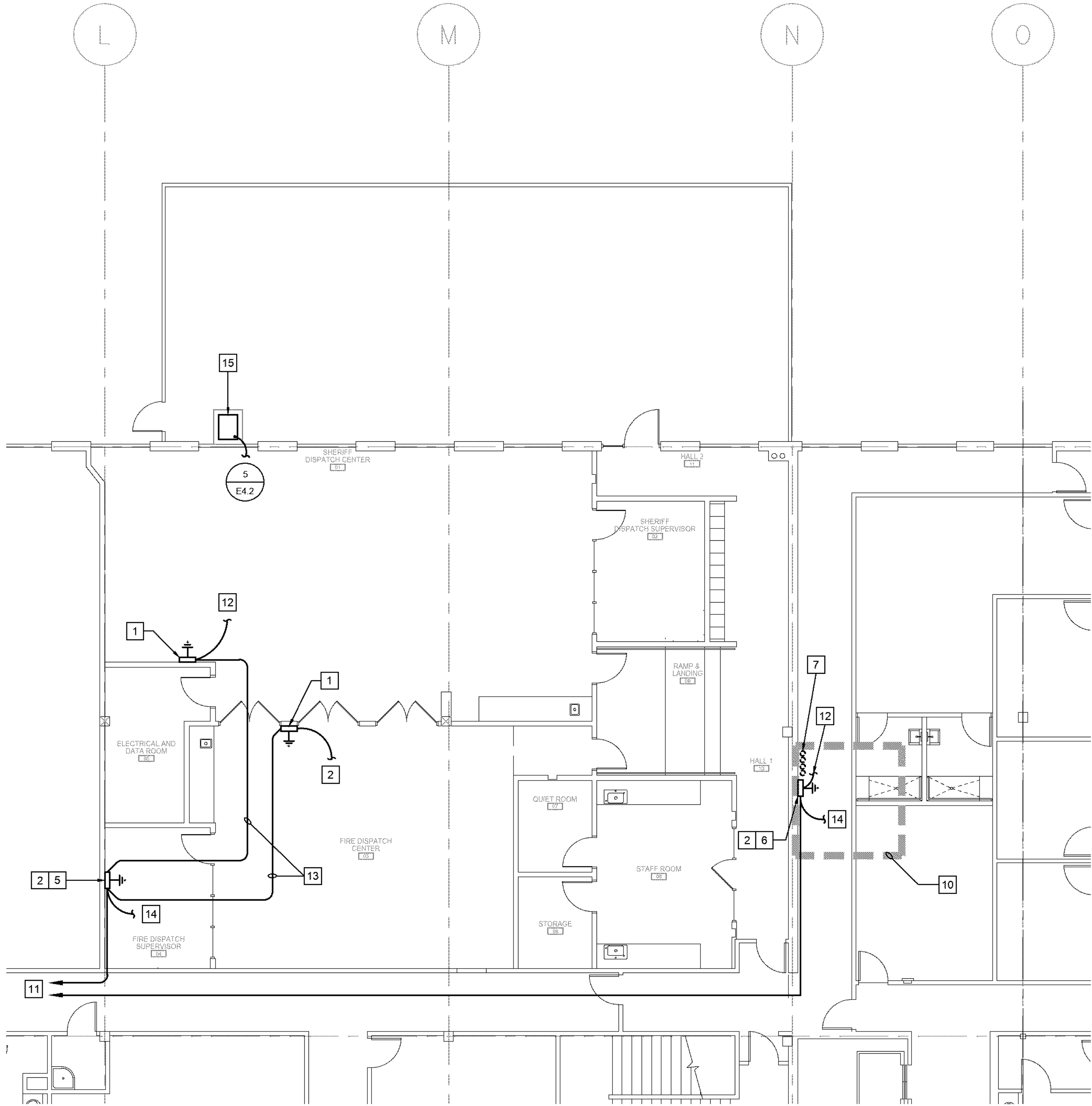
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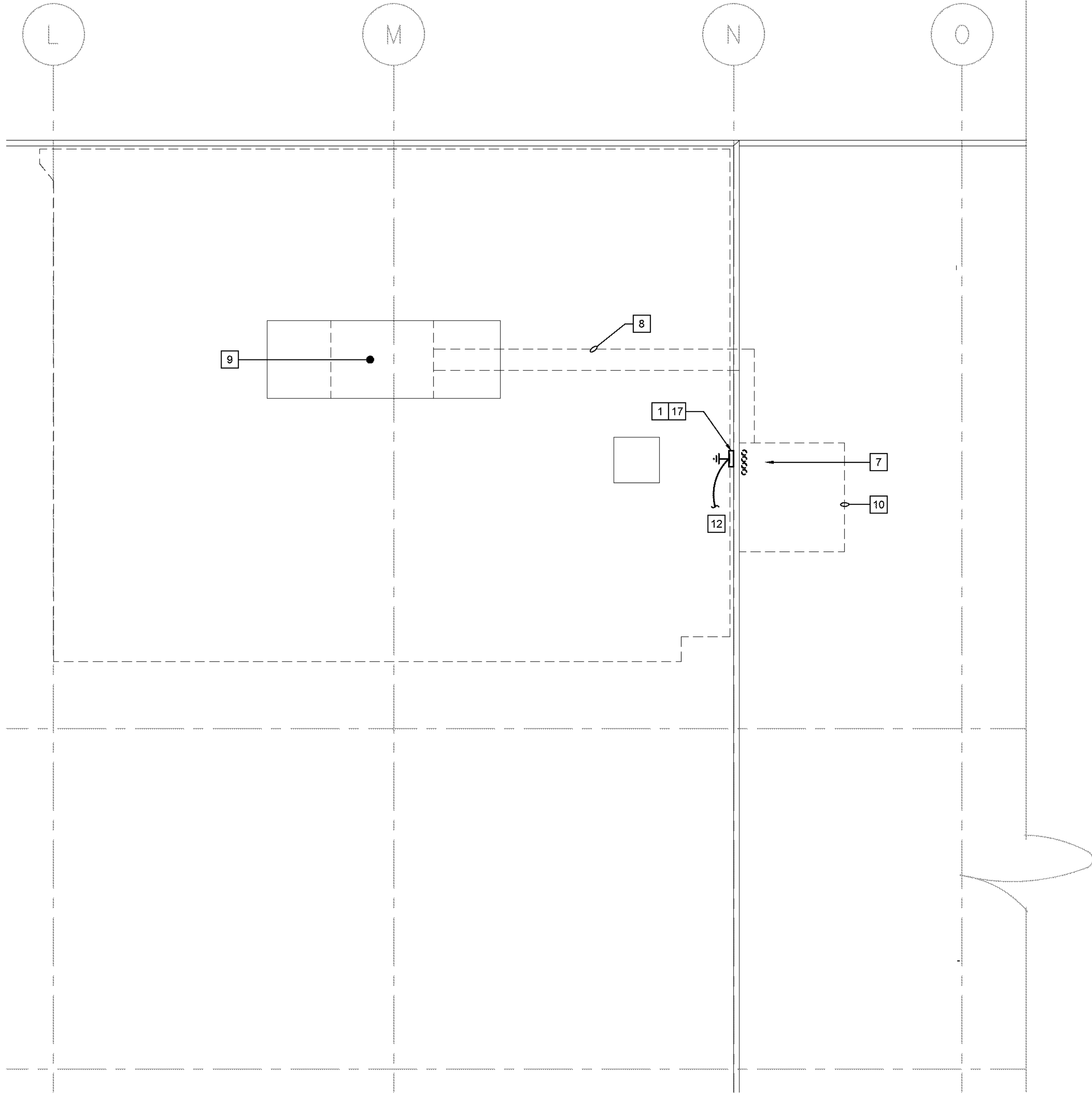
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Tulare County Sheriff & Fire
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Sheet Description:
Partial Electrical Roof &
Grounding/Bonding Plans

Date: 8/8/2020
Project: 19-700
Scale: NOTED
Sheet No.: E3.1
Of x Sheets



2 GROUND/BONDING PLAN
SCALE: 1/8" = 1'-0"



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

LIGHTNING PROTECTION
PERFORMANCE SPECIFICATIONS

PART 1 - GENERAL

1.1 SCOPE

- PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM THAT CONFORMS TO UL780 FOR THE BUILDING. CONTRACTOR RESPONSIBLE FOR A COMPLETE/FUNCTIONAL SYSTEM. SHOW DRAWINGS WITH BUILDING OF MATERIALS, DETAILS, ETC.
- THE LIGHTNING PROTECTION SYSTEM SHALL CONSIST OF AIR TERMINALS, ROOF CONDUCTORS, DOWN CONDUCTORS, GROUND CONNECTIONS, AND GROUNDS, ELECTRICALLY INTERCONNECTED TO FORM THE SHORTEST DISTANCE TO GROUND. ALL CONDUCTORS ON THE STRUCTURES SHALL BE EXPOSED EXCEPT WHERE CONDUCTORS ARE IN PROTECTIVE SLEEVES EXPOSED ON THE OUTSIDE WALLS. SECONDARY CONDUCTORS SHALL INTERCONNECT WITH GROUNDED METALLIC PARTS WITHIN THE BUILDING. INTERCONNECTIONS MADE WITHIN SIDE-FLASH DISTANCES SHALL BE AT OR ABOVE THE LEVEL OF THE GROUNDED METALLIC PARTS. ITEMS TO BE INTERCONNECTED INCLUDE METALLIC PARTS SUCH AS METAL DOORS, WINDOWS, AND GUTTERS.
- ITEMS TO BE GROUNDED OR BONDED AS OCCURRING;
 - STEEL FRAME BUILDINGS.
 - RAMPS.
 - TANKS AND TOWERS.
 - METAL STACKS.
 - NONMETALLIC STACKS.
 - POST TENSIONING SYSTEMS.
 - INTERCONNECTION OF METAL BODIES.
 - FENCES.
 - EXTERIOR OVERHEAD PIPE LINES.
 - SEPARATELY MOUNTED SHIELDING SYSTEMS "MAST TYPE".
 - SEPARATELY MOUNTED SHIELDING SYSTEMS "OVERHEAD GROUND-WIRE TYPE".
 - METAL ROOFS.
 - PARAPET (BACKSIDE) TIED TO STRUCTURAL STEEL REBAR AND SLAB.

1.2 REFERENCES

- THE PUBLICATIONS REFERENCED BLOW ESTABLISH MINIMUM REQUIREMENTS FOR MATERIALS, SYSTEMS AND EXECUTION THAT MAY BE SPECIFIED IN THIS SECTION.
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
NFPA 780 INSTALLATION OF LIGHTNING PROTECTION SYSTEMS

1.3 SUBMITTALS

- SHOP DRAWINGS.
- CERTIFICATES OF COMPLIANCE.

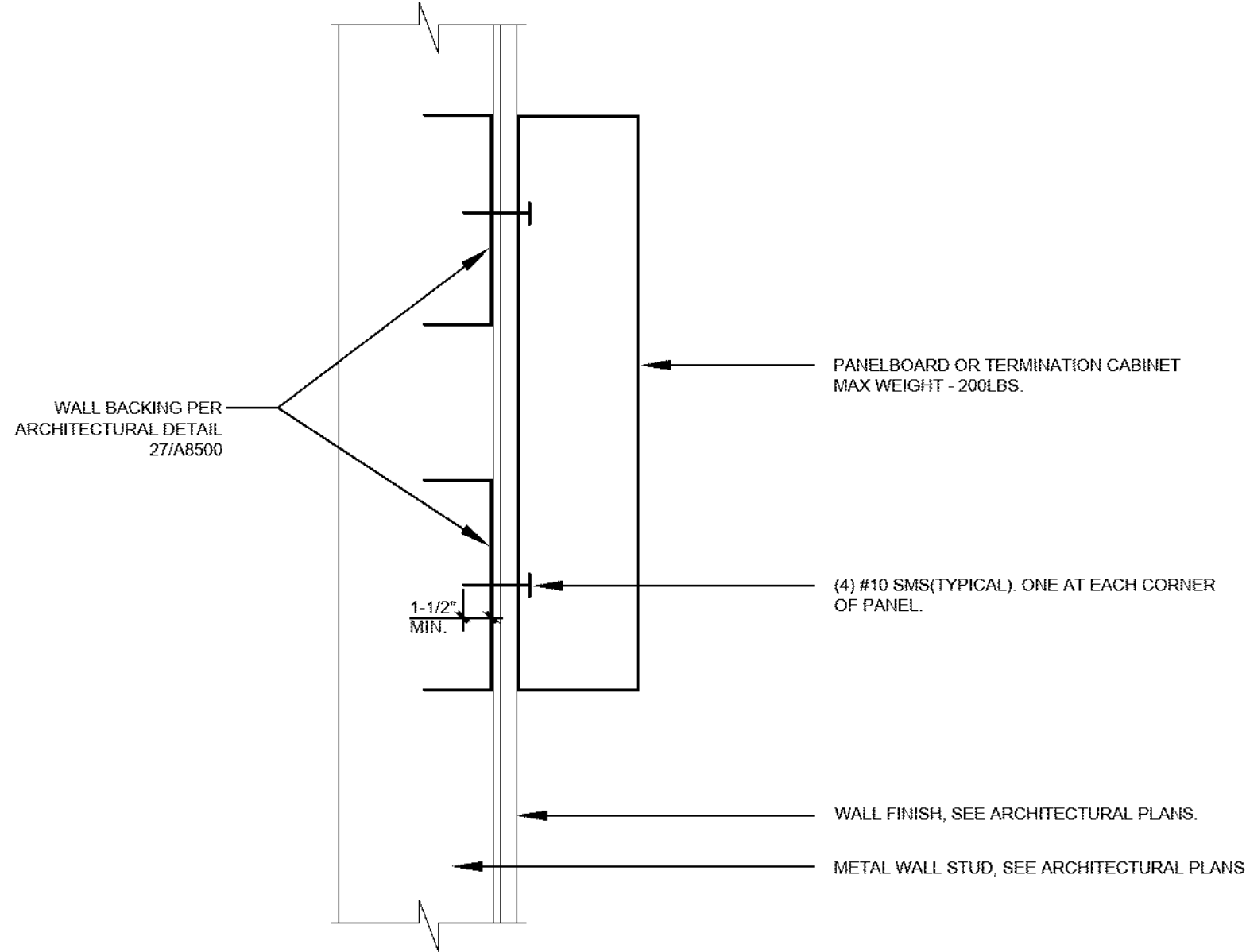
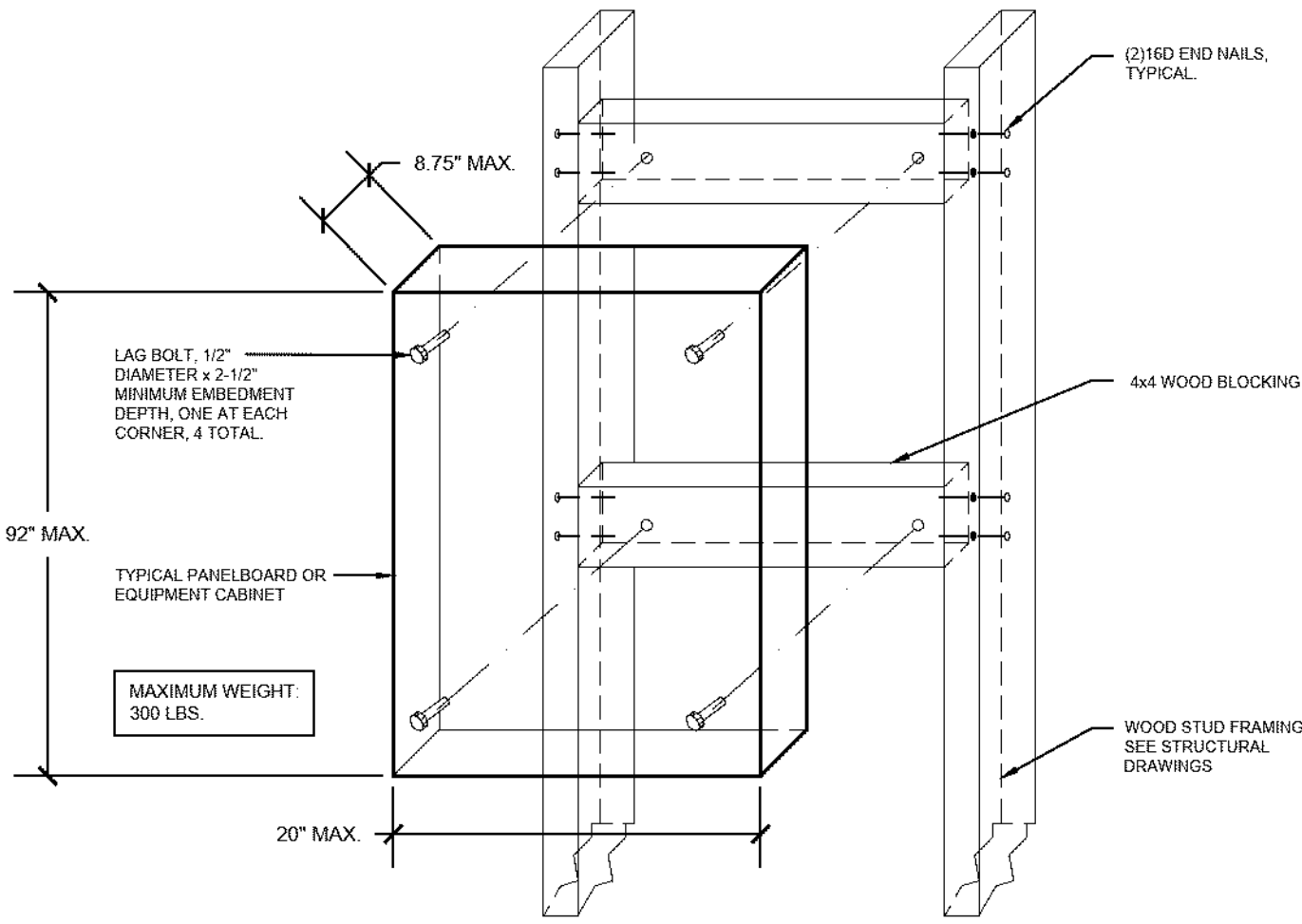
PART 2 - PRODUCTS

2.1 PRODUCTS

- NO COMBINATION OF MATERIALS SHALL BE USED THAT FORMS AN ELECTROLYTIC COUPLE OF SUCH NATURE THAT CORROSION IS ACCELERATED IN THE PRESENCE OF MOISTURE UNLESS MOISTURE IS PERMANENTLY EXCLUDED FROM THE JUNCTION OF SUCH METALS.
- COPPER CONDUCTORS 375 POUNDS PER THOUSAND FEET AND MINIMUM SIZE WIRE NOT LESS THAN NO. 16 AWG.
- COPPER CONDUCTOR RIBBON OR WEBB MINIMUM SIZE OF NO. 1/0 AWG.
- ALUMINUM STRIPS FOR MINIMUM SIZE OF NO. 12 AWG IN THICKNESS AND AT LEAST 1.5" WIDE.
- GROUND RODS: MINIMUM SIZE OF 3/4 INCH IN DIAMETER AND 10 FEET IN LENGTH, COPPER CLAD STEEL.
- CONNECTORS: CLAMP-TYPE CONNECTORS FOR SPLICING CONDUCTORS.

REFERENCE NOTES

- WALL MOUNTED BUS BAR KIT INCLUDES 10"x1/4" COPPER GROUND BAR WITH TAPPED HOLES, INSULATORS, AND STAND-OFF BRACKETS.
- WALL MOUNTED BUS BAR KIT INCLUDES 20"x1/4" COPPER GROUND BAR WITH TAPPED HOLES, INSULATORS, AND STAND-OFF BRACKETS.
- PROVIDE #2 INSULATED GREEN JACKET BONDING CONNECTION TO RAISED FLOOR SUPPORT PEDESTAL. CONNECT TO PEDESTAL WITH UL LISTED GROUND CLAMP. GROUND ALL RAISE FLOOR PEDESTAL TOGETHER PER MANUFACTURER REQUIREMENTS.
- REFER TO TIA/EIA J-STD-607-A FOR ADDITIONAL GROUNDING/BONDING REQUIREMENTS.
- GROUND BAR AT IT ROOM.
- GROUND BAR AT 2ND FLOOR RADIO ROOM.
- LOCATION OF FOUR 4" CONDUIT WITH CABLE ACCESS WEATHERHEAD.
- CABLE TRANSMISSION BRIDGE BY OTHERS.
- PROSPECTIVE LOCATION OF 20 FT TOWER.
- OUTLINE OF 2ND FLOOR RADIO ROOM.
- 3/4"C (1) 3/0 THWN CU GROUND TO MSB GROUND BAR.
- 3/4"C (1) 3/0 THWN GROUND BETWEEN ROOF GROUND BAR AND RADIO ROOM GROUND BAR.
- 3/4"C (2) 3/0 THWN GROUND BETWEEN IT GROUND BAR AND RAISED FLOOR GROUND BAR.
- PROVIDE #6 CU INSULATED GREEN JACKET GROUND CABLE. GROUND ALL METAL EQUIPMENT IN ROOM (I.E. DATA RACK, LADDER TRY, CONDUITS, METAL EQUIPMENTS, ETC.) PROVIDE APPROVED COMPRESSION CONNECTOR, TYPICAL.
- STEP DOWN TRANSFORMER PER SINGE LINE DIAGRAM.
- PER CEC 250.50 GROUNDING ELECTRODES PRESENT AT STRUCTURE.
- VERIFY EXACT LOCATION OF GROUND BAR AT ROOF WITH OWNER'S VENDOR.





WARNING

ARC FLASH HAZARD

LINE SIDE of MAIN	FLASH PROTECTION BOUNDARY: 40 inches
	HAZARD RISK CATEGORY: CLASS 2
	INCIDENT ENERGY RANGE: 4 - 8 cal/cm ²

LINE SIDE of MAIN	FLASH PROTECTION BOUNDARY: 20 inches
	HAZARD RISK CATEGORY: CLASS 0
	INCIDENT ENERGY RANGE: 0 - 2 cal/cm ²

PSE TQS#: #####

Date Issued: April 2004

Study Rev. :0

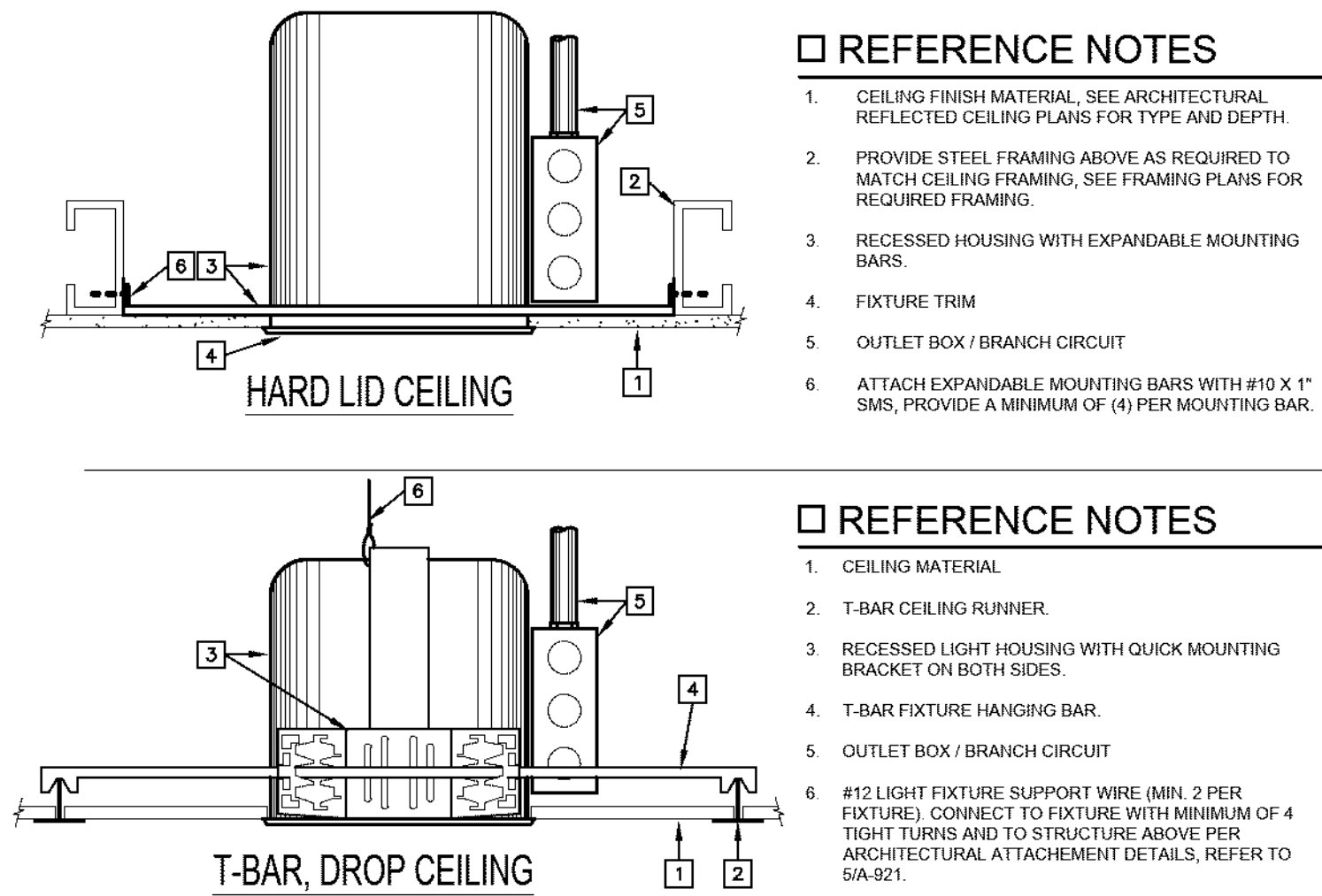
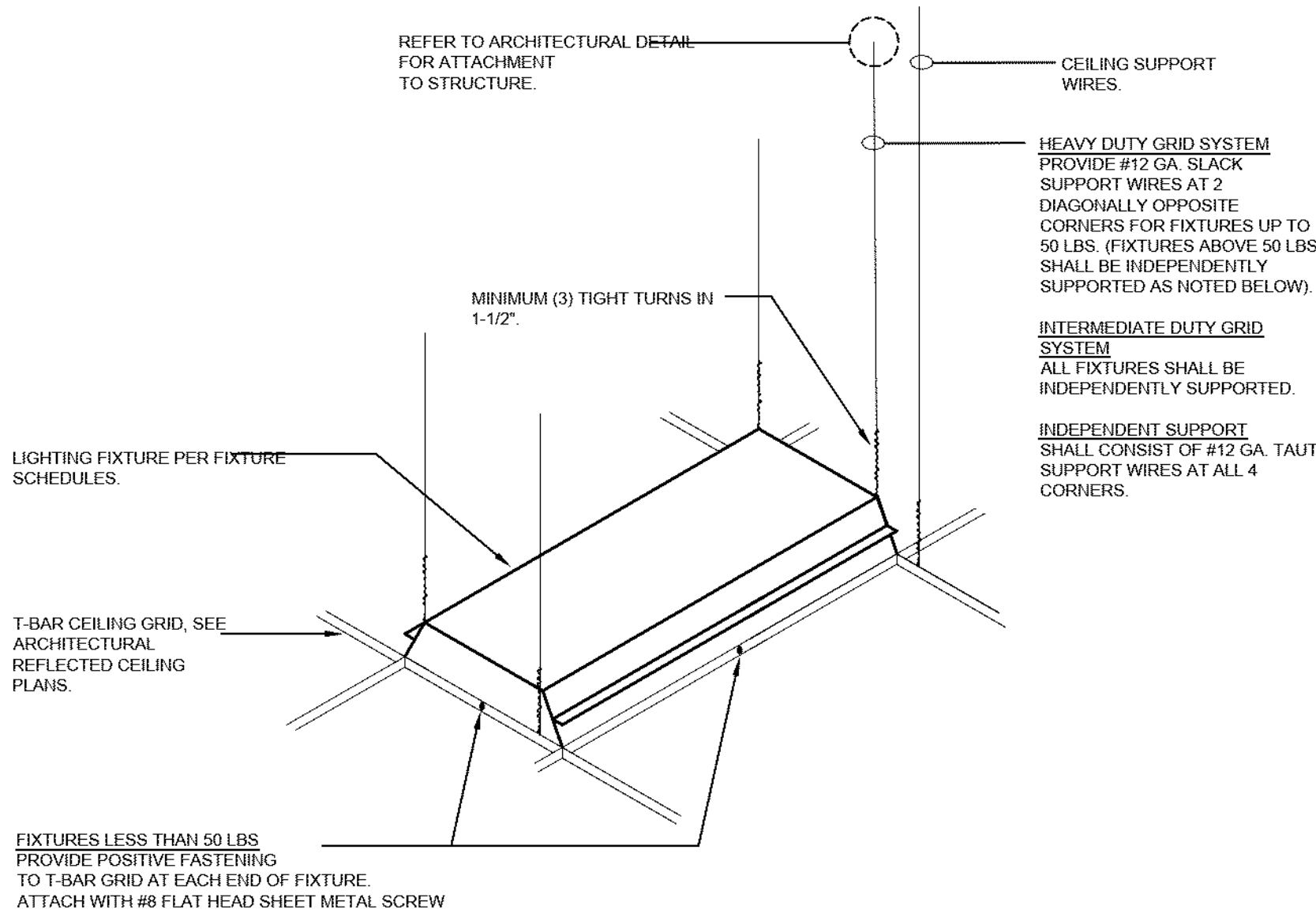
LOCATION: BUS NAME	PROTECTIVE DEVICE: UPSTREAM DEVICE
--------------------	------------------------------------

NOTE:
IN ACCORDANCE WITH CEC 110.16, PROVIDE ARC FLASH PROTECTION WARNING LABELS ON EACH SWITCHBOARD, PANELBOARD, AND TRANSFORMER. LABELS SHALL BE PER ANSI Z39.4 GUIDELINES PER THE ABOVE EXAMPLE.

7 TYPICAL SURFACE MTD. PANEL
SCALE: NTS

4 TYPICAL SURFACE MTD. PANEL/CABINET
SCALE: NTS

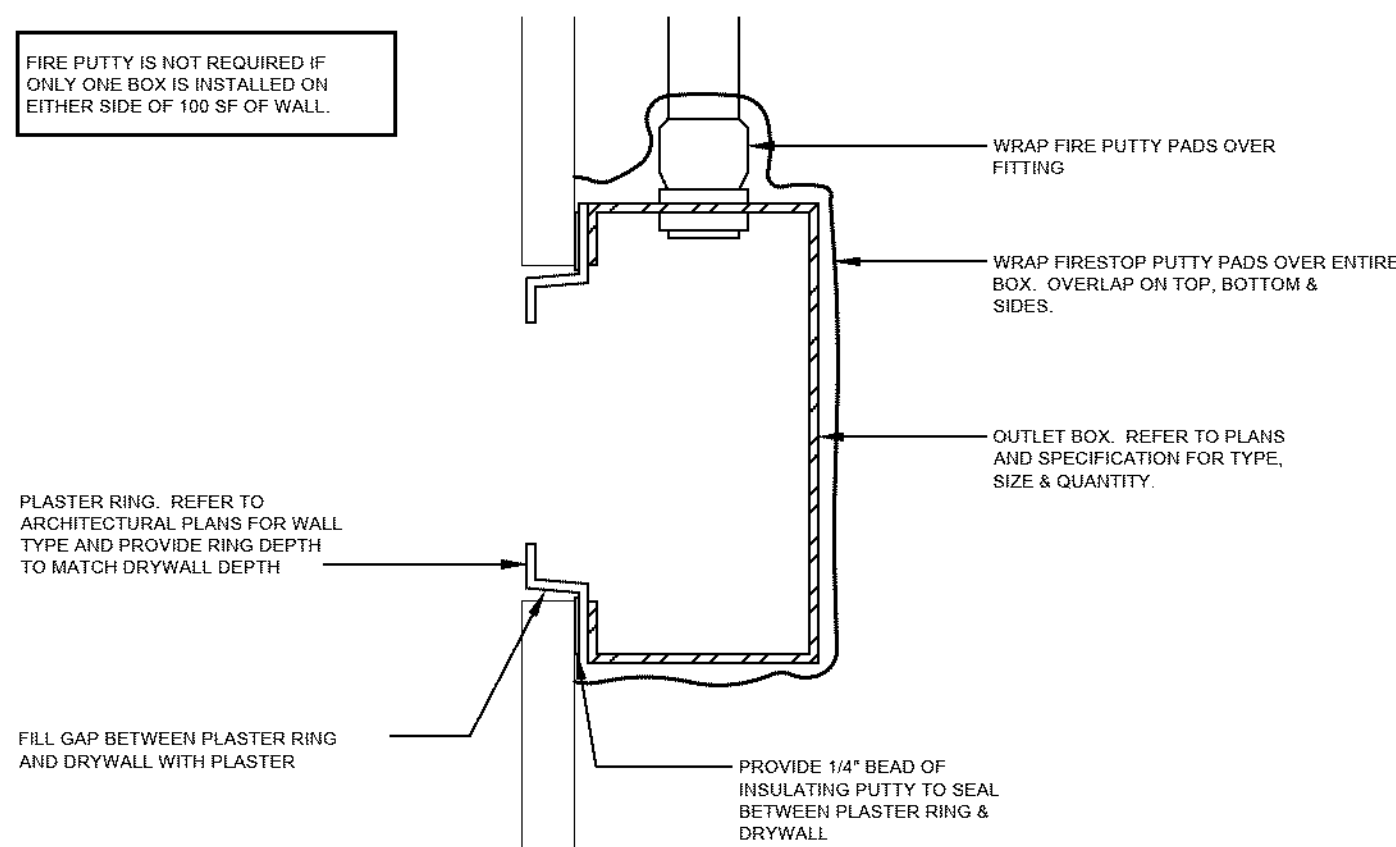
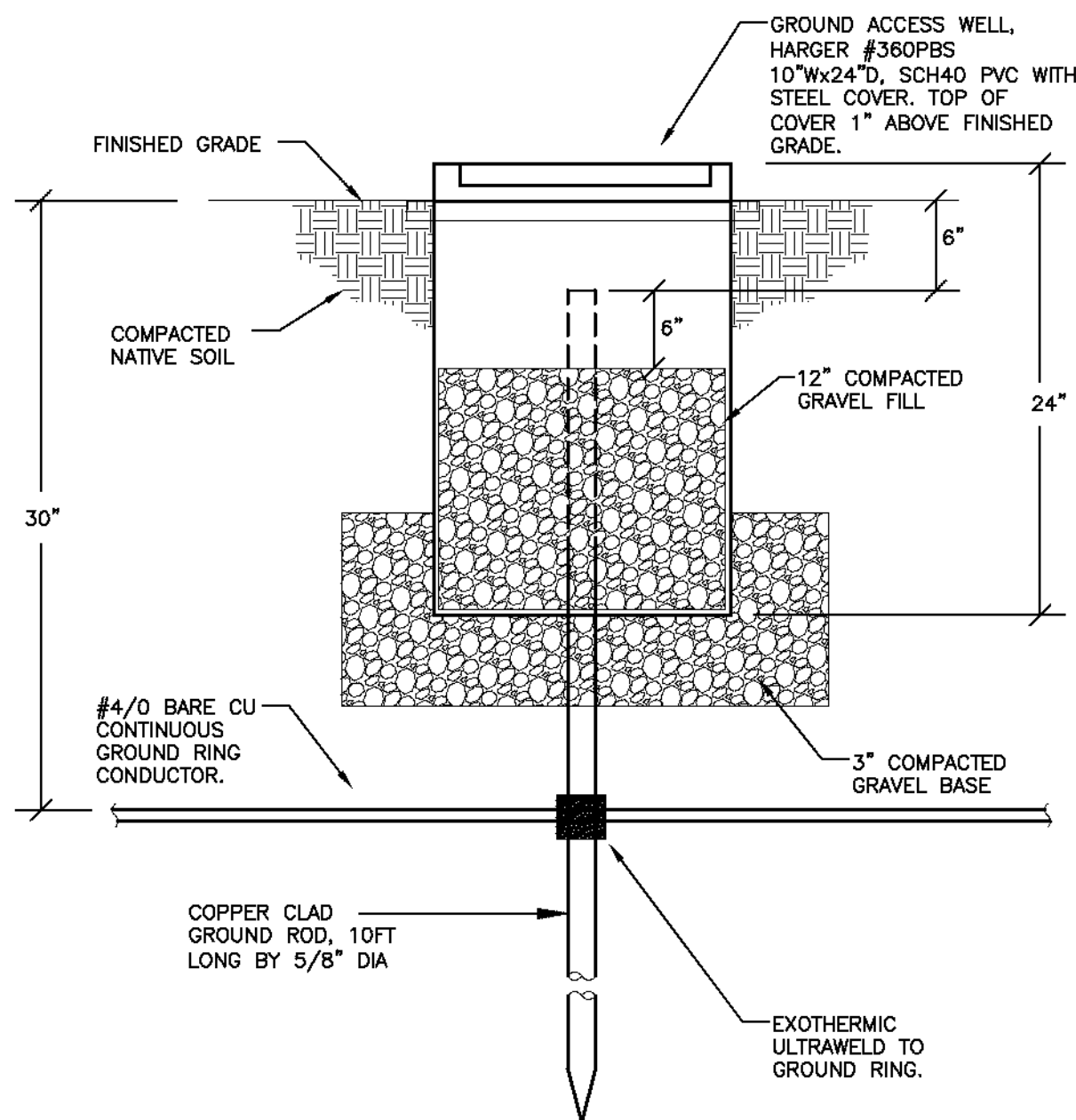
1 TYPICAL ARC FLASH SIGNAGE
SCALE:



8 TYPICAL LAY-IN T-BAR FIXTURE FOR TROFFERS
SCALE: NTS

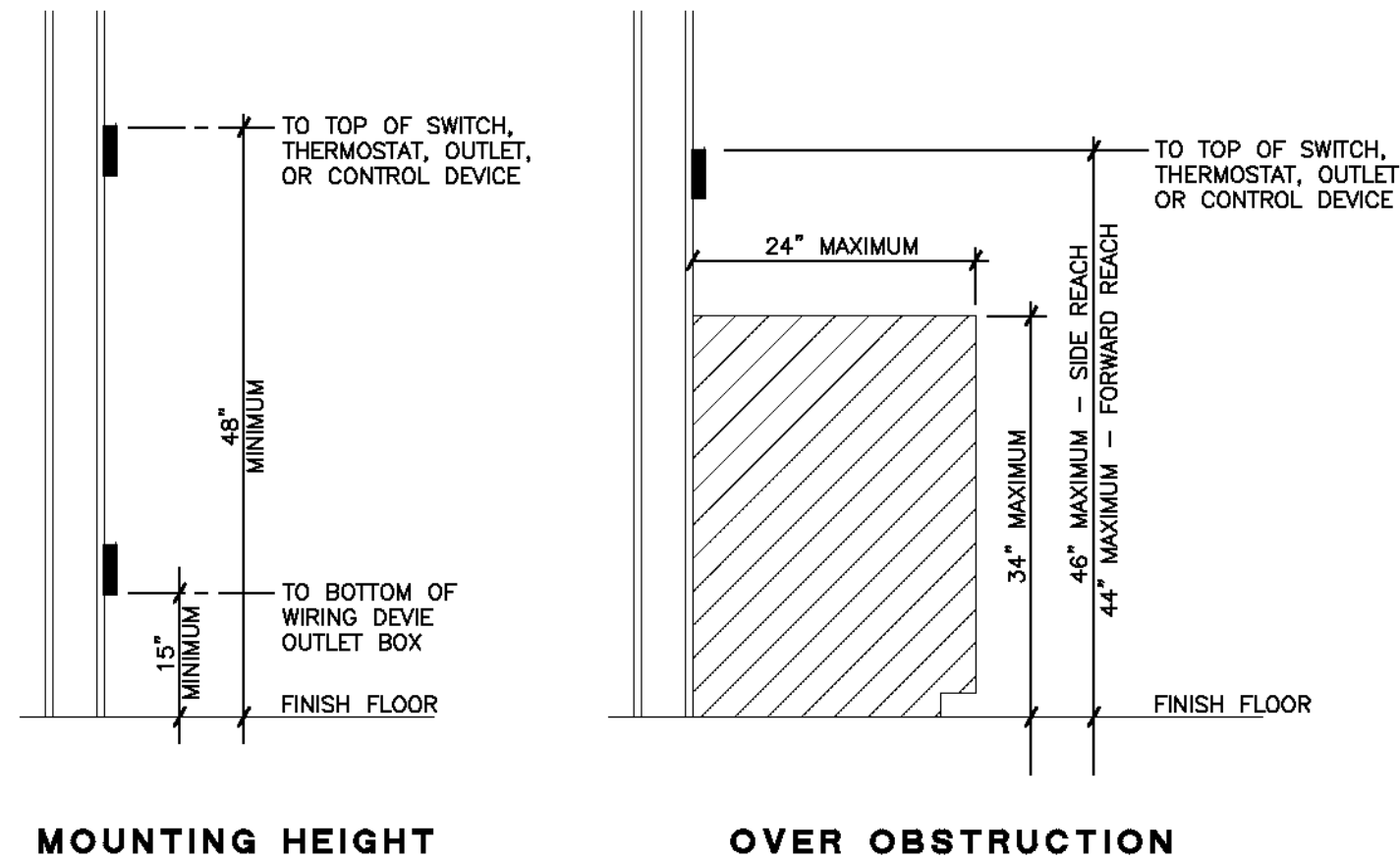
5 RECESSED DOWNLIGHT MOUNTING
SCALE: NTS

2 NOT USED

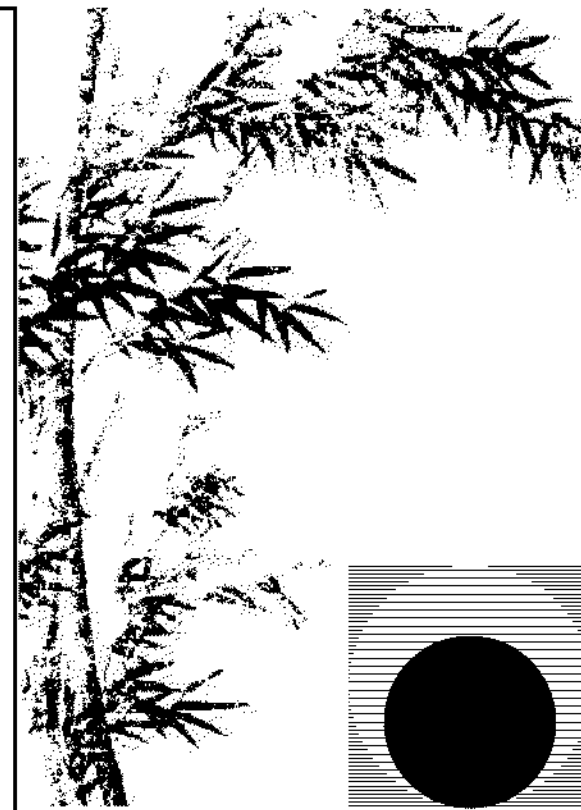


9 TYPICAL ROD/GROUND ACCESS WELL
SCALE: NTS

6 TYPICAL DEVICE INSTALLATION - RATED WALLS
SCALE: NTS



3 TYPICAL DEVICE ADA MOUNTING HEIGHTS
SCALE: NTS

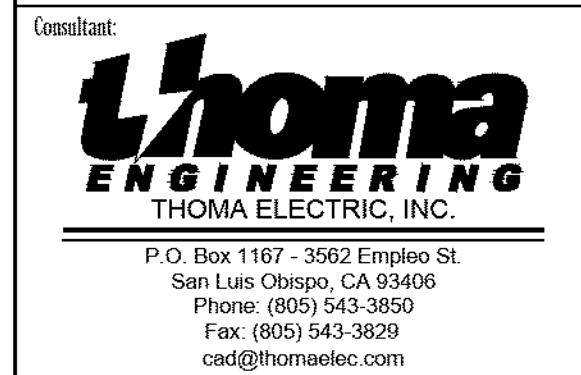
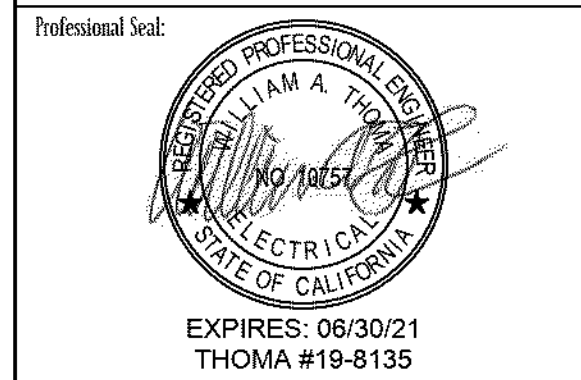


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Drawing Status:

Contract Document

Revision Summary:

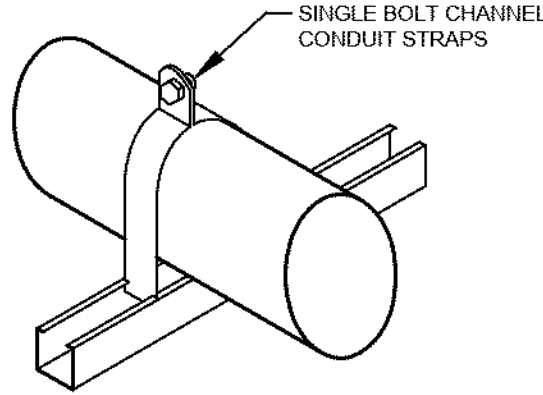
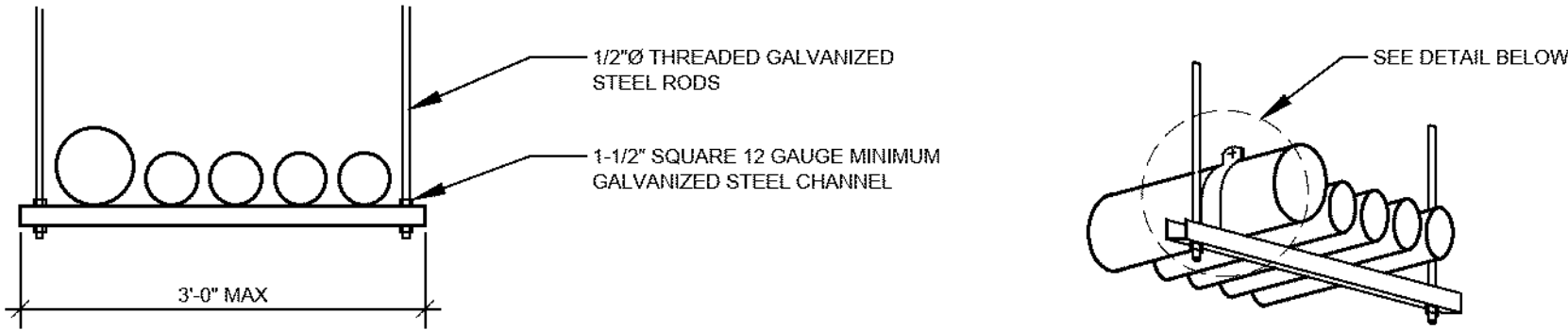
Project:
New Dispatch Center
Tulare County Sheriff & Fire
5300 West Tulare Avenue
Visalia, California

Sheet Description:
Electrical Details

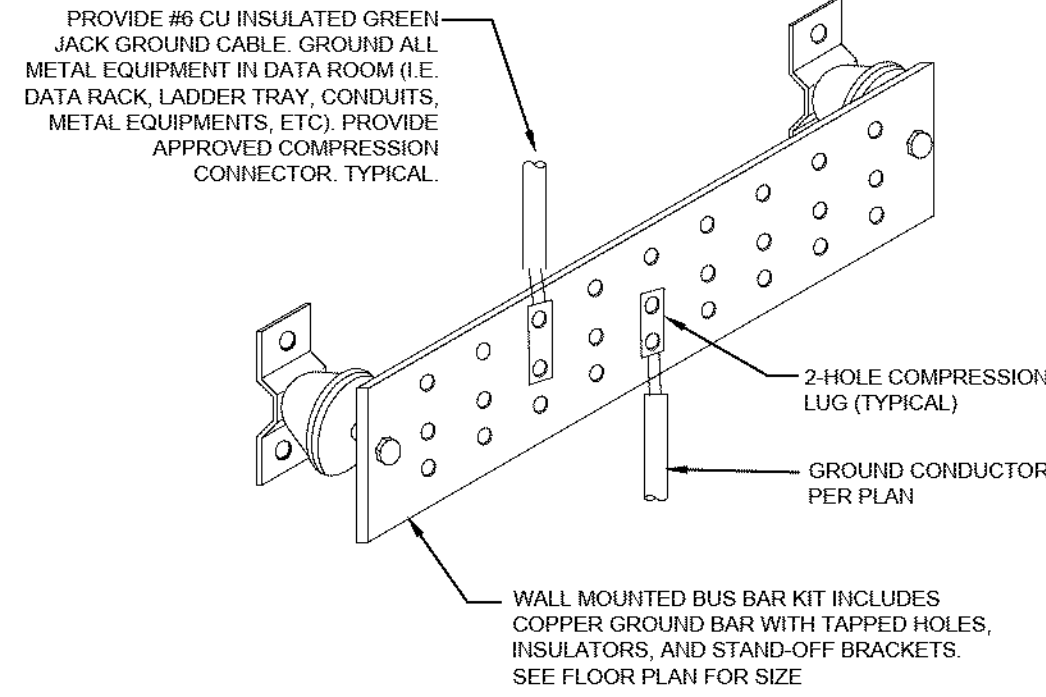
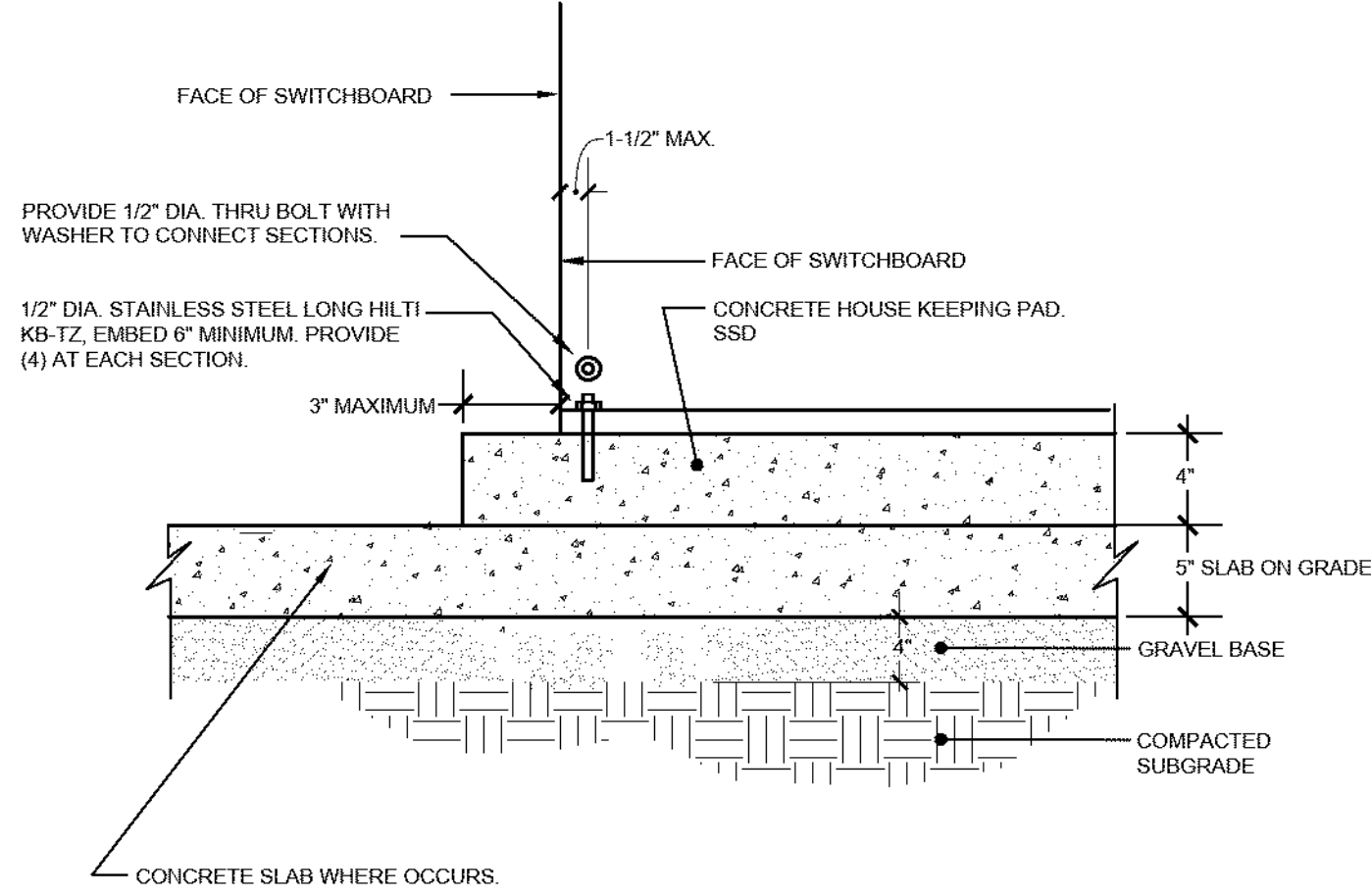
Date: 8/8/2020
Project: 19-700
Scale: NOTED
Sheet No:

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Of x Sheets



- NOTES:
1. CONTRACTOR MAY USE A CONDUIT SUSPENSION SYSTEM EQUIVALENT TO THAT WHICH IS DETAILED, HAVING THE FEATURES SHOWN AND APPROVED IN ADVANCE BY THE RESIDENT ENGINEER.
 2. PROVIDE A SAMPLE SUPPORT SYSTEM TO KEEP ON JOB SITE FOR CONSTRUCTION GUIDE PURPOSES.
 3. CONDUIT SUSPENSION SYSTEM SHALL BE INDEPENDENT OF ANY OTHER SUSPENSION SYSTEM.



7 TYPICAL CONDUIT SUPPORT SYSTEM DETAIL

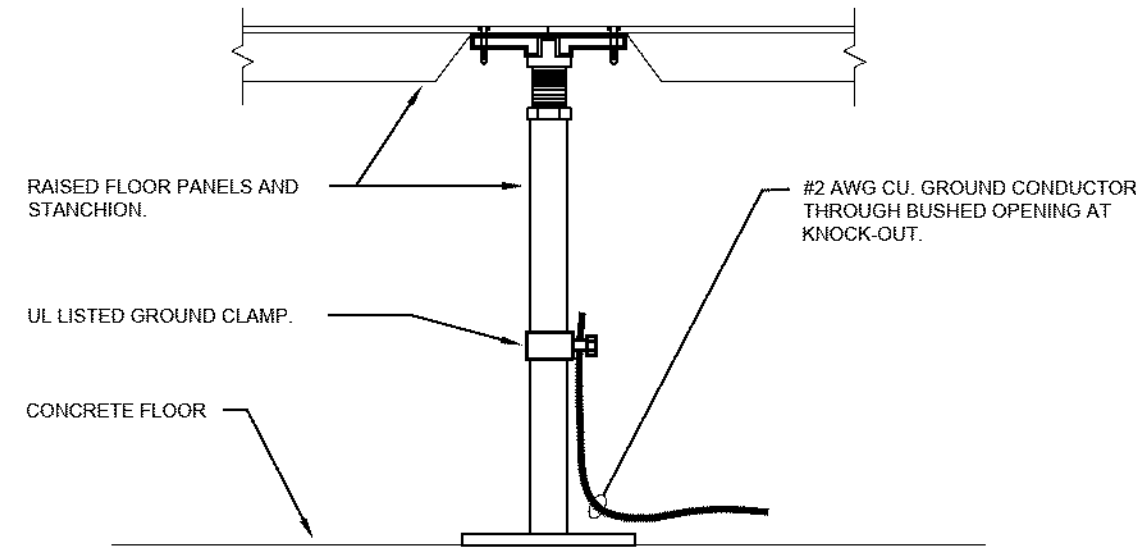
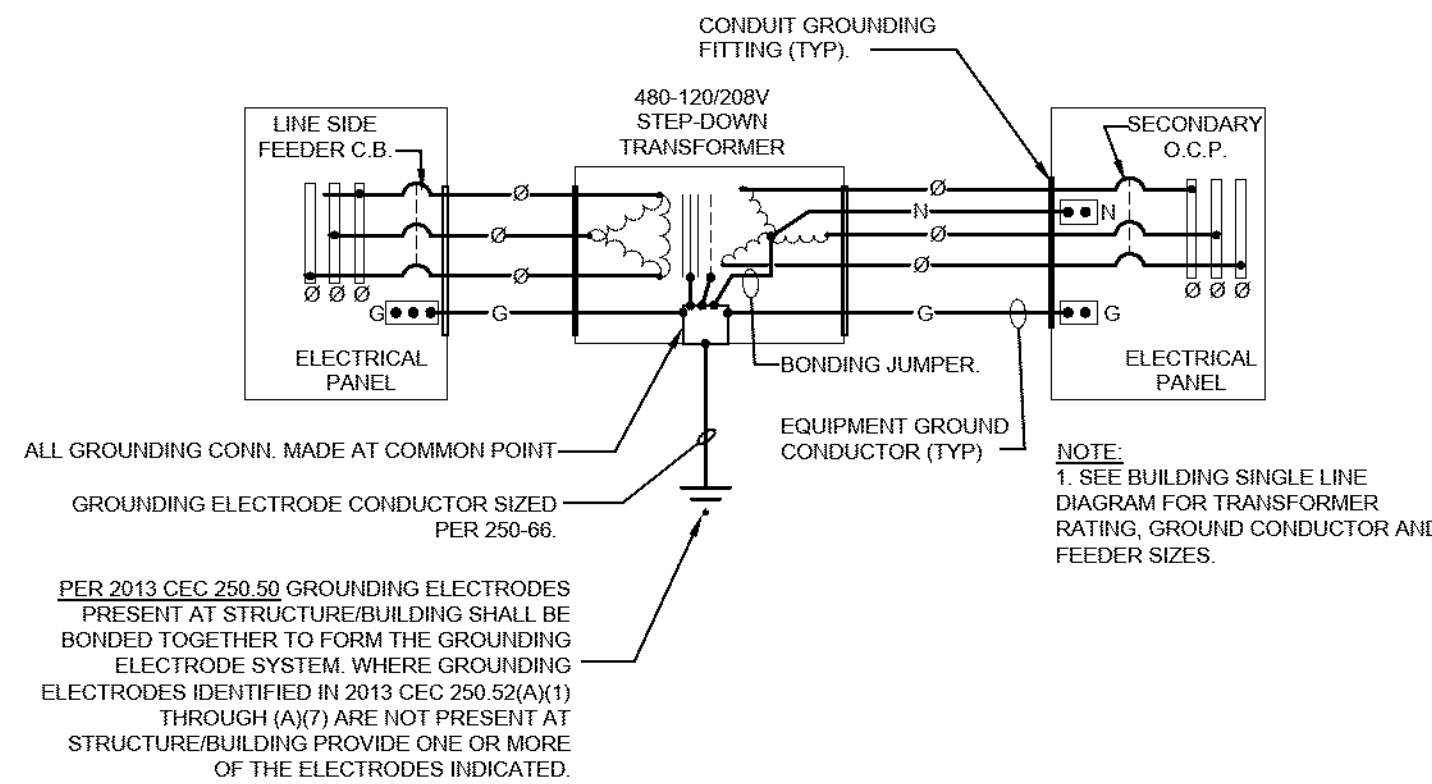
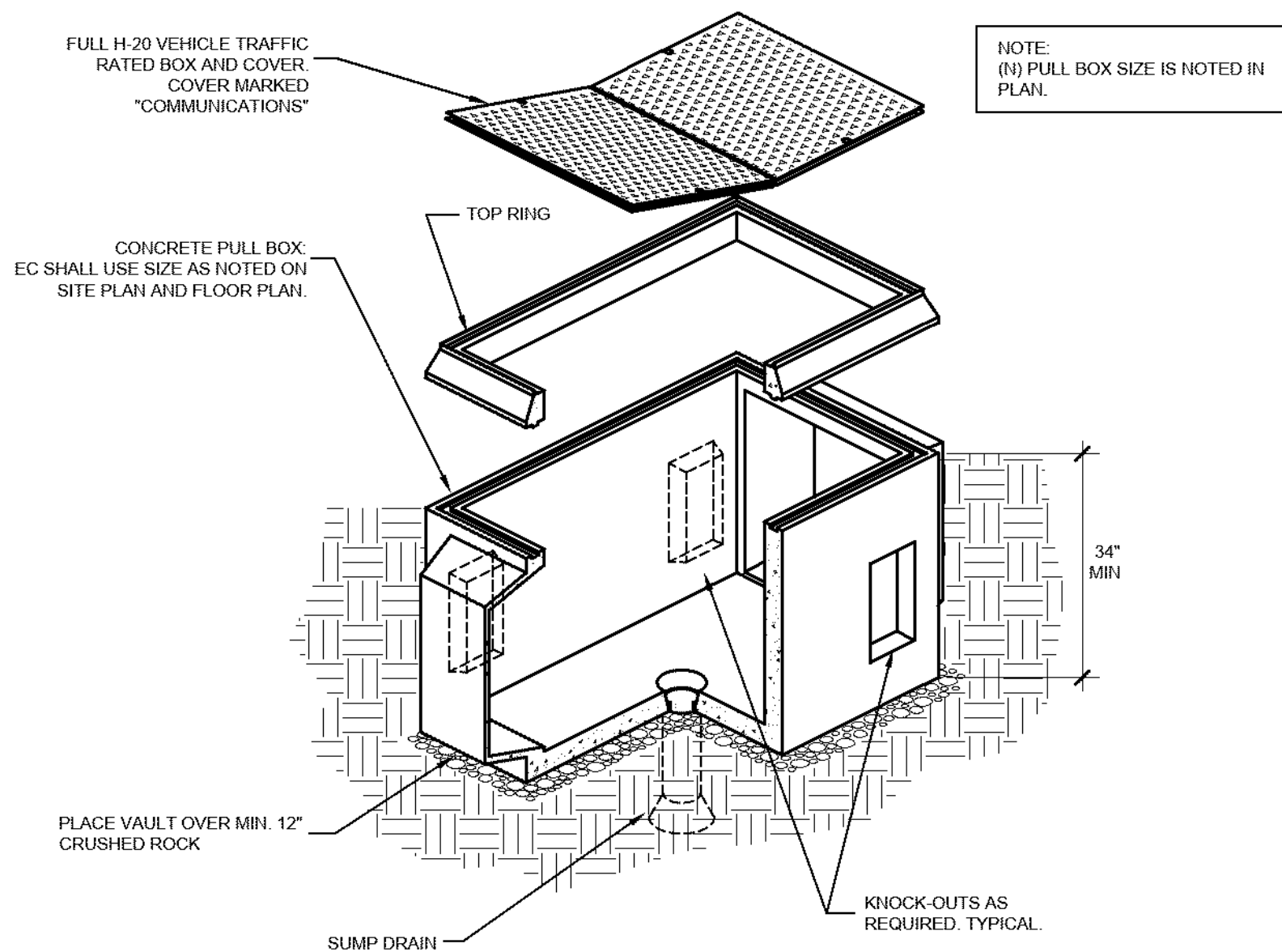
SCALE:

4 UPS MOUNTING DETAIL

SCALE: NTS

1 TYPICAL GROUND BAR DETAIL

SCALE: NTS



8 TRAFFIC RATED PULL BOX DETAIL

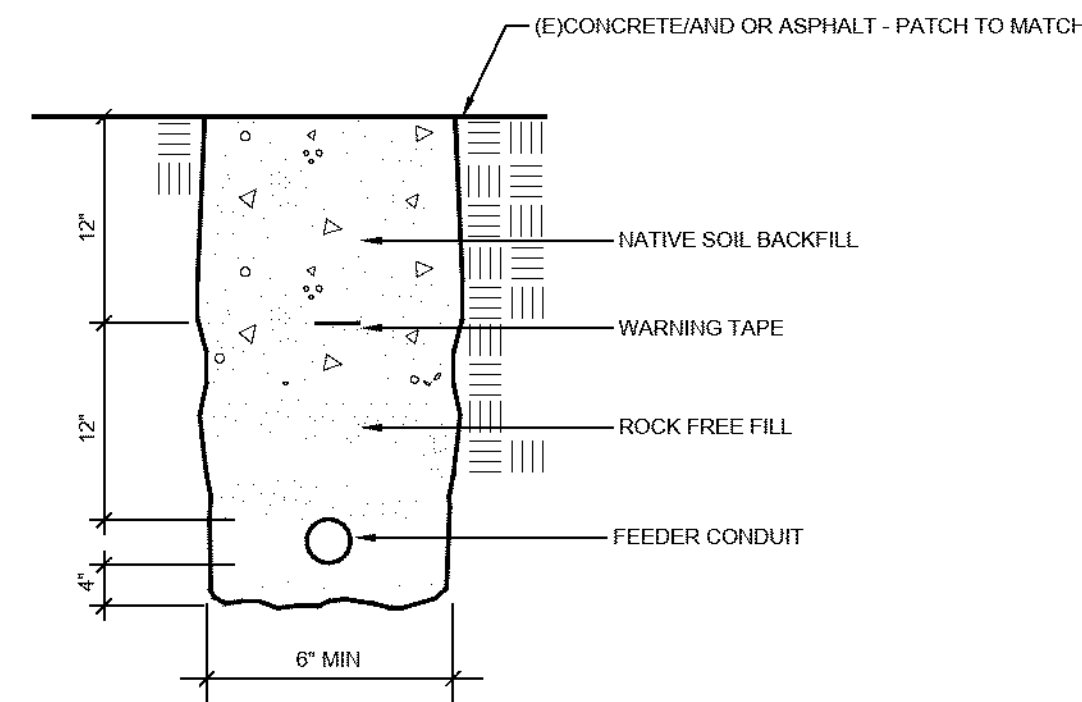
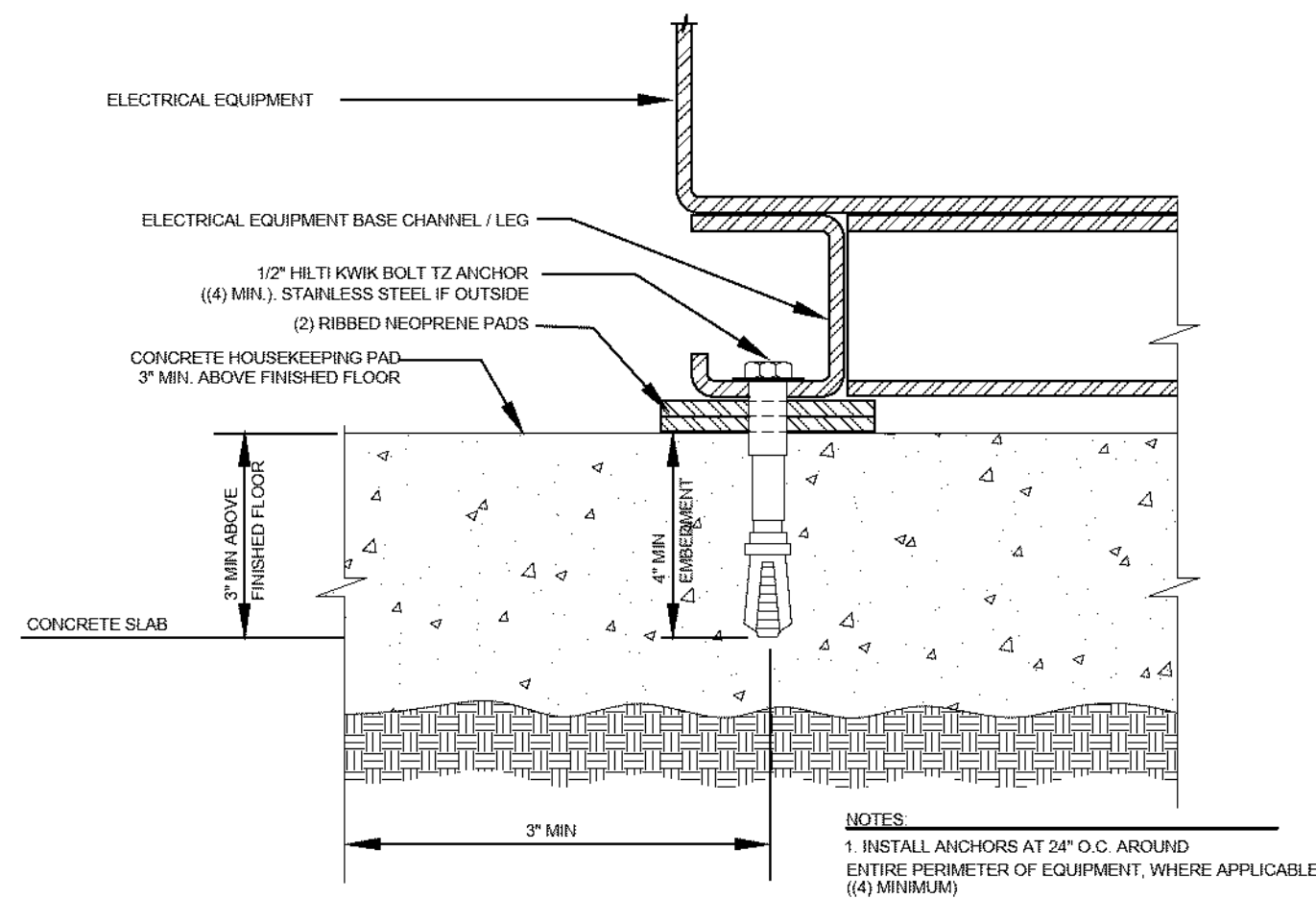
SCALE:

5 TRANSFORMER GROUNDING DETAIL

SCALE: NTS

2 GROUND/BOND CONNECTION AT RAISED FLOOR

SCALE: NTS



6 TRANSFORMER MOUNTING DETAIL

SCALE: NTS

3 FEEDER TRENCH DETAIL

SCALE:

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Email: chasrhoads@sbcglobal.net

Professional Seal:
THOMAS A. THOMA
REGISTERED PROFESSIONAL
ELECTRICIAN
STATE OF CALIFORNIA
EXPIRES: 08/30/21
THOMA #19-8135

Consultant:
Thoma
ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empele St
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

Drawing Status:

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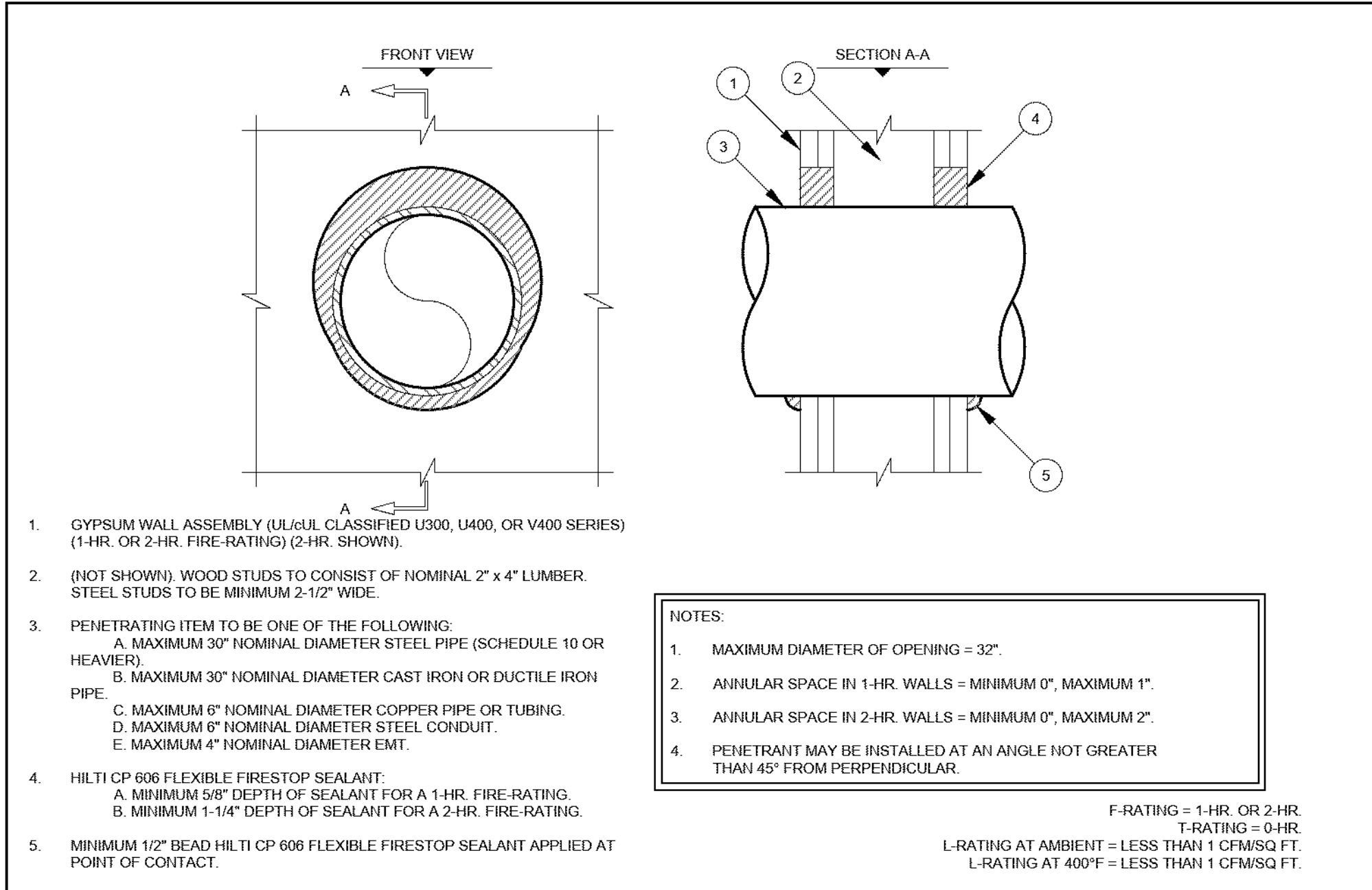
Revision Summary:

Project:
New Dispatch Center
Tulare County Sheriff & Fire
5300 West Tulare Avenue
Visalia, California

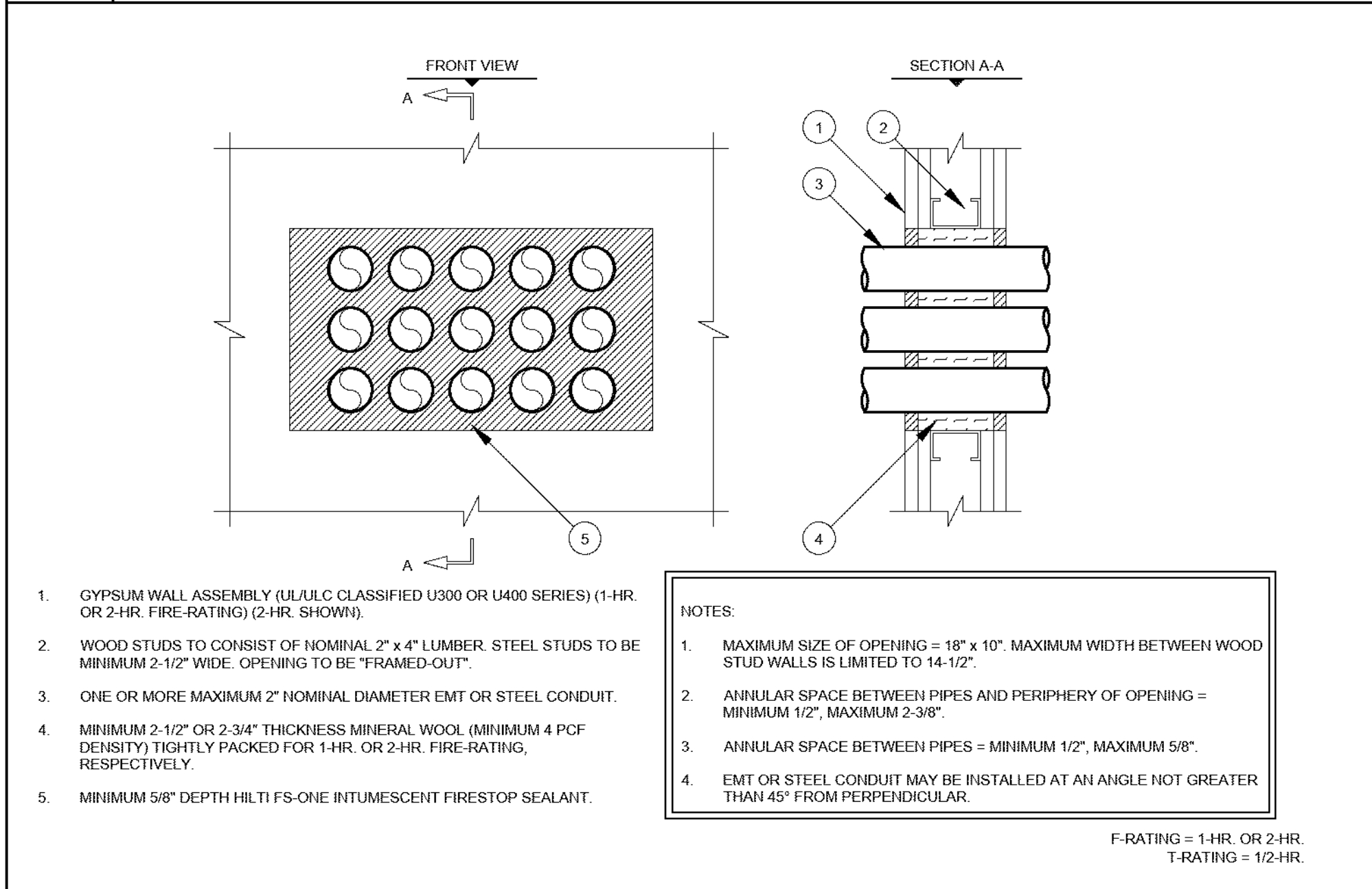
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Date: 8/8/2020
Project: 19-700
Scale: NOTED

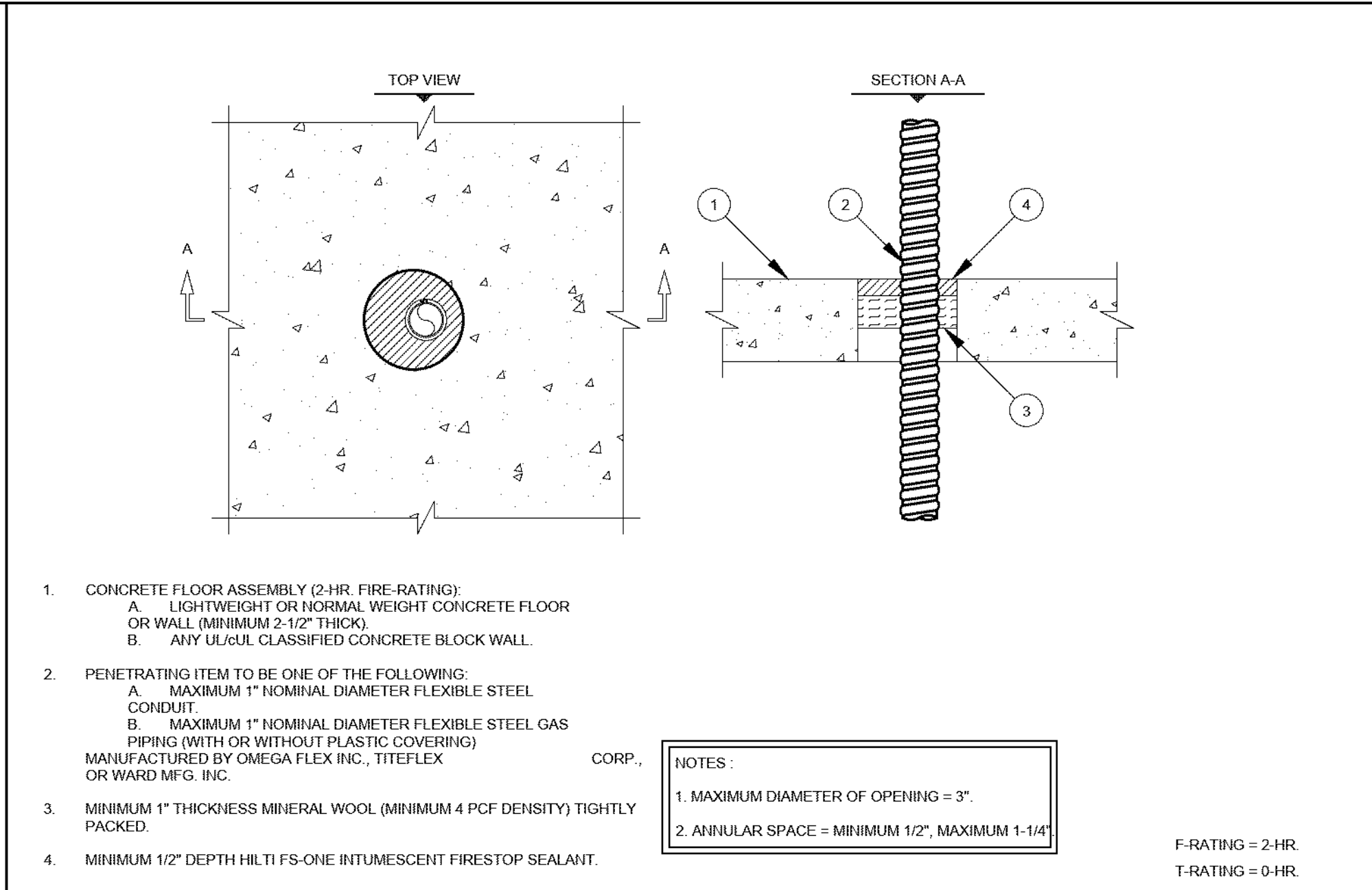
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Of x Sheets



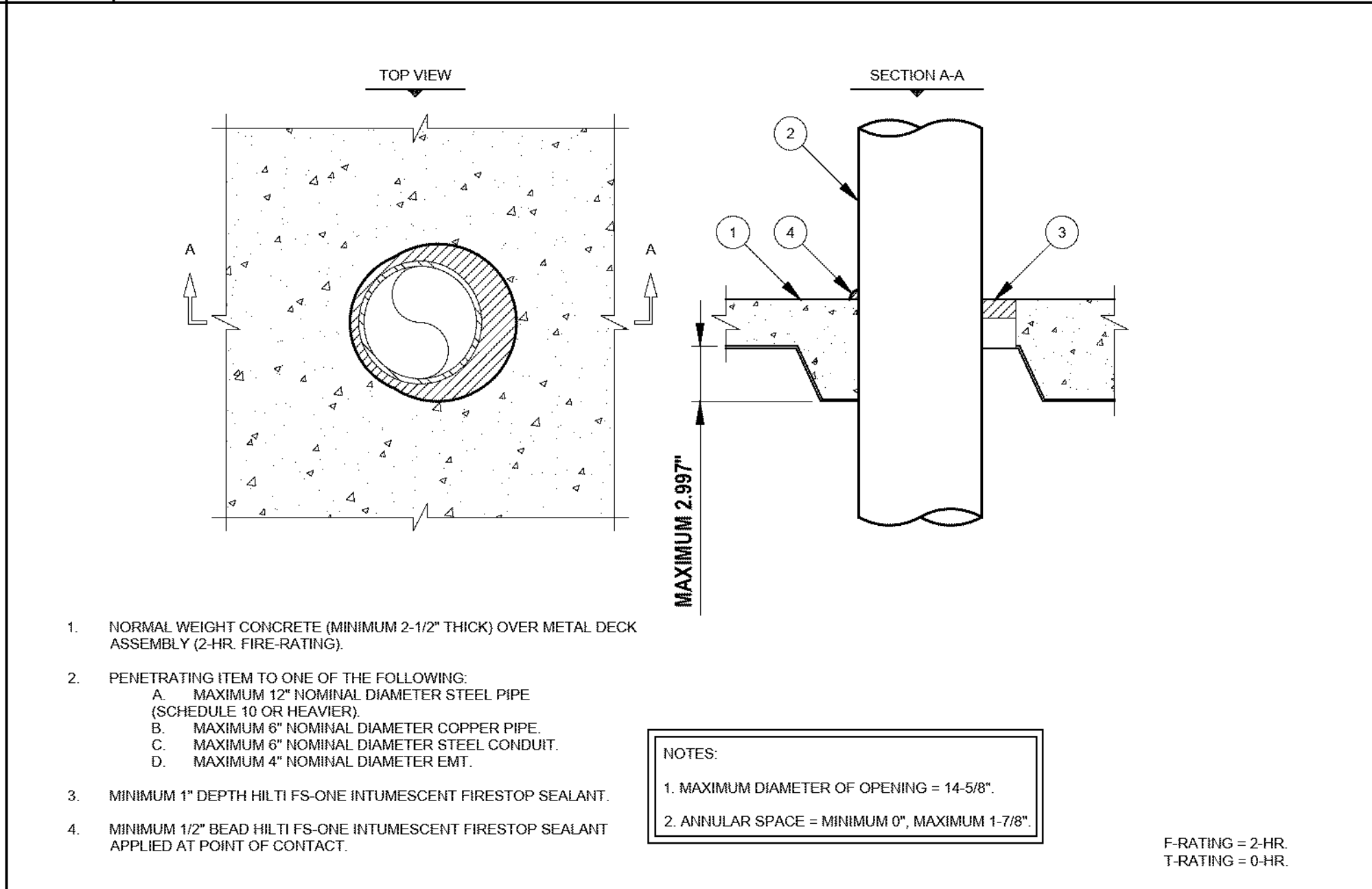
7 METAL PIPE THROUGH 1HR OR 2HR GYPSUM WALL ASSEMBLY
SCALE: NTS



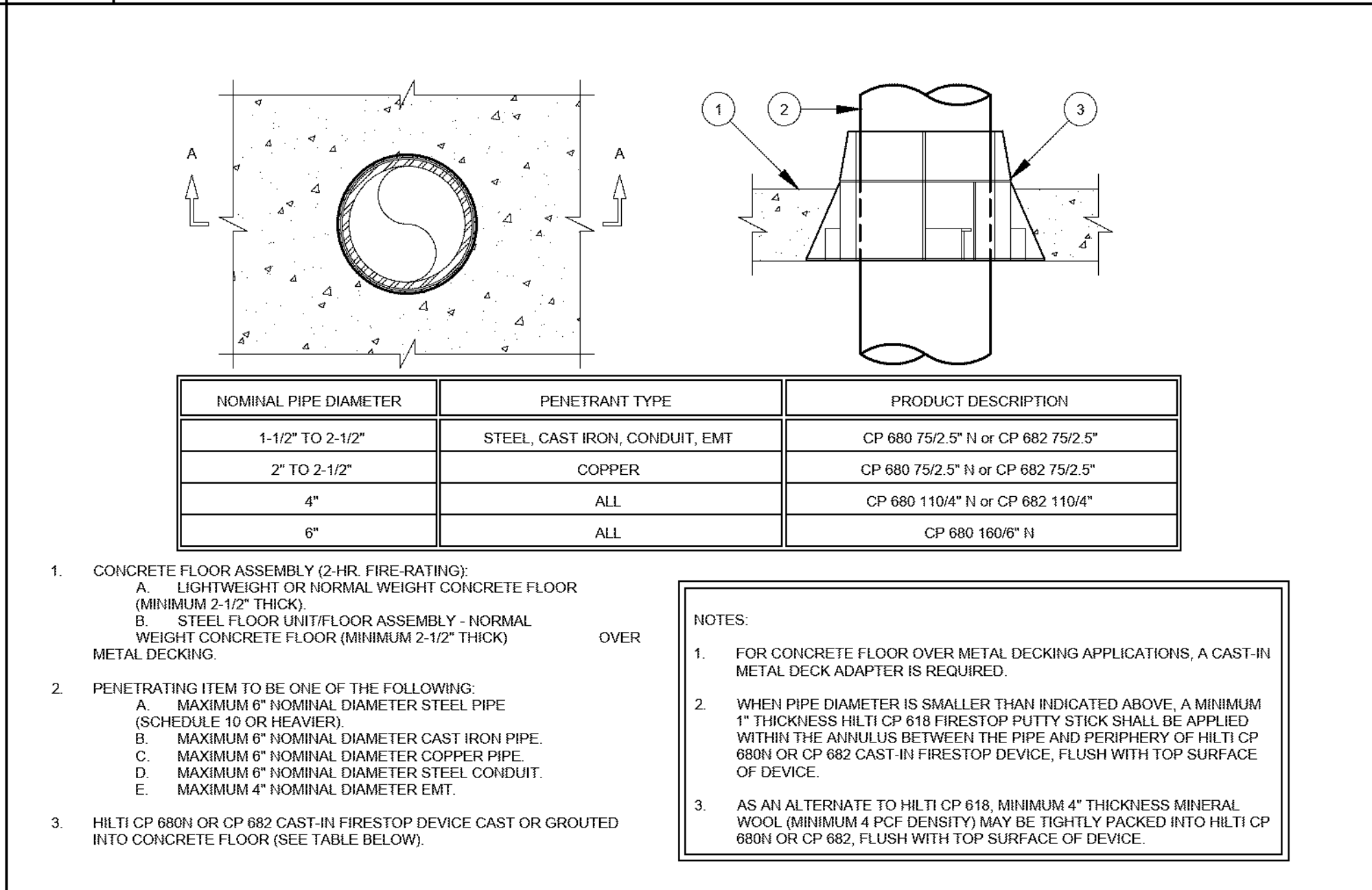
8 MULTIPLE METAL PIPE THROUGH 1HR OR 2HR GYPSUM WALL ASSEMBLY
SCALE: NTS



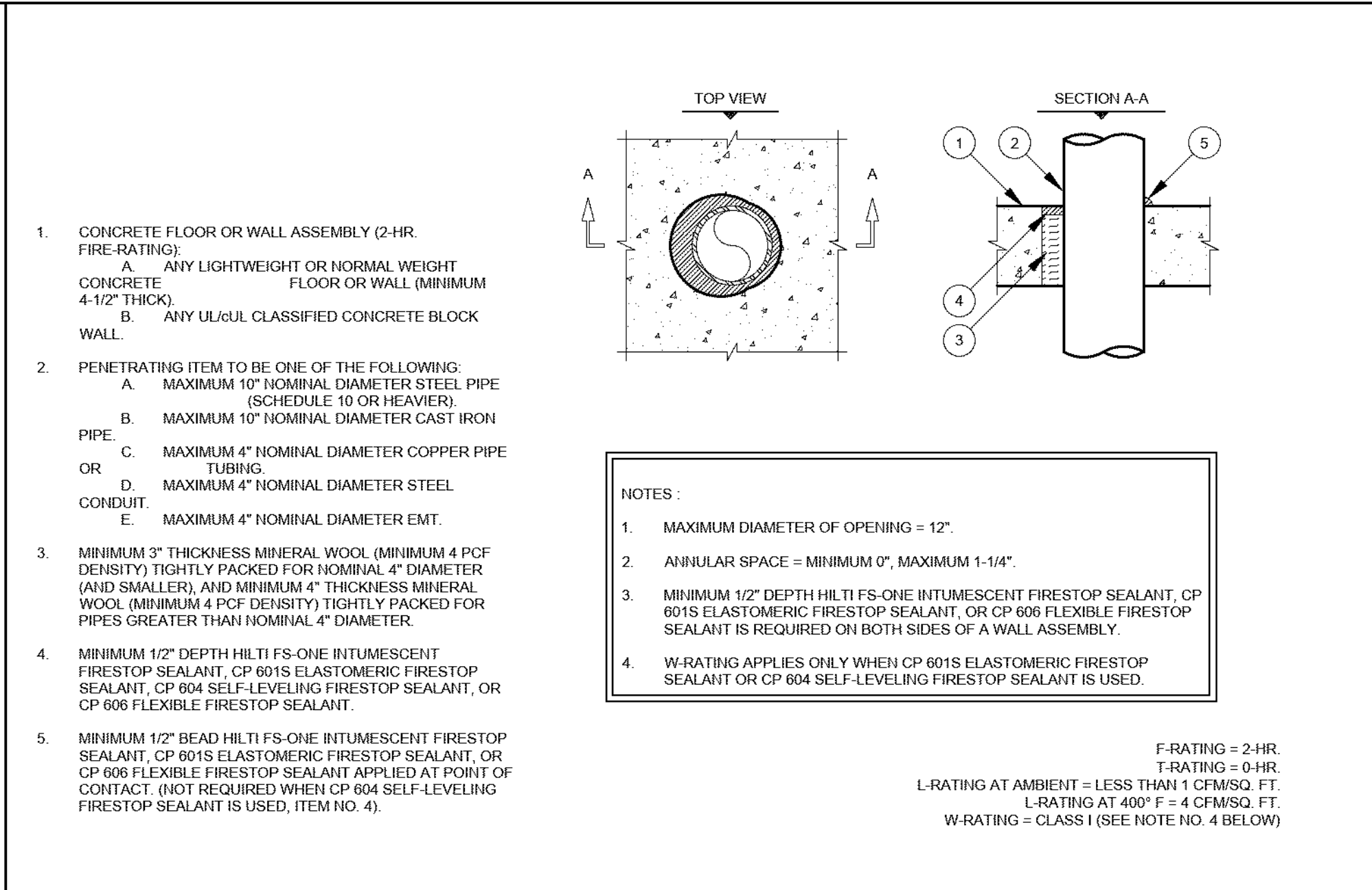
4 FLEXIBLE STEEL CONDUIT THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL
SCALE: NTS



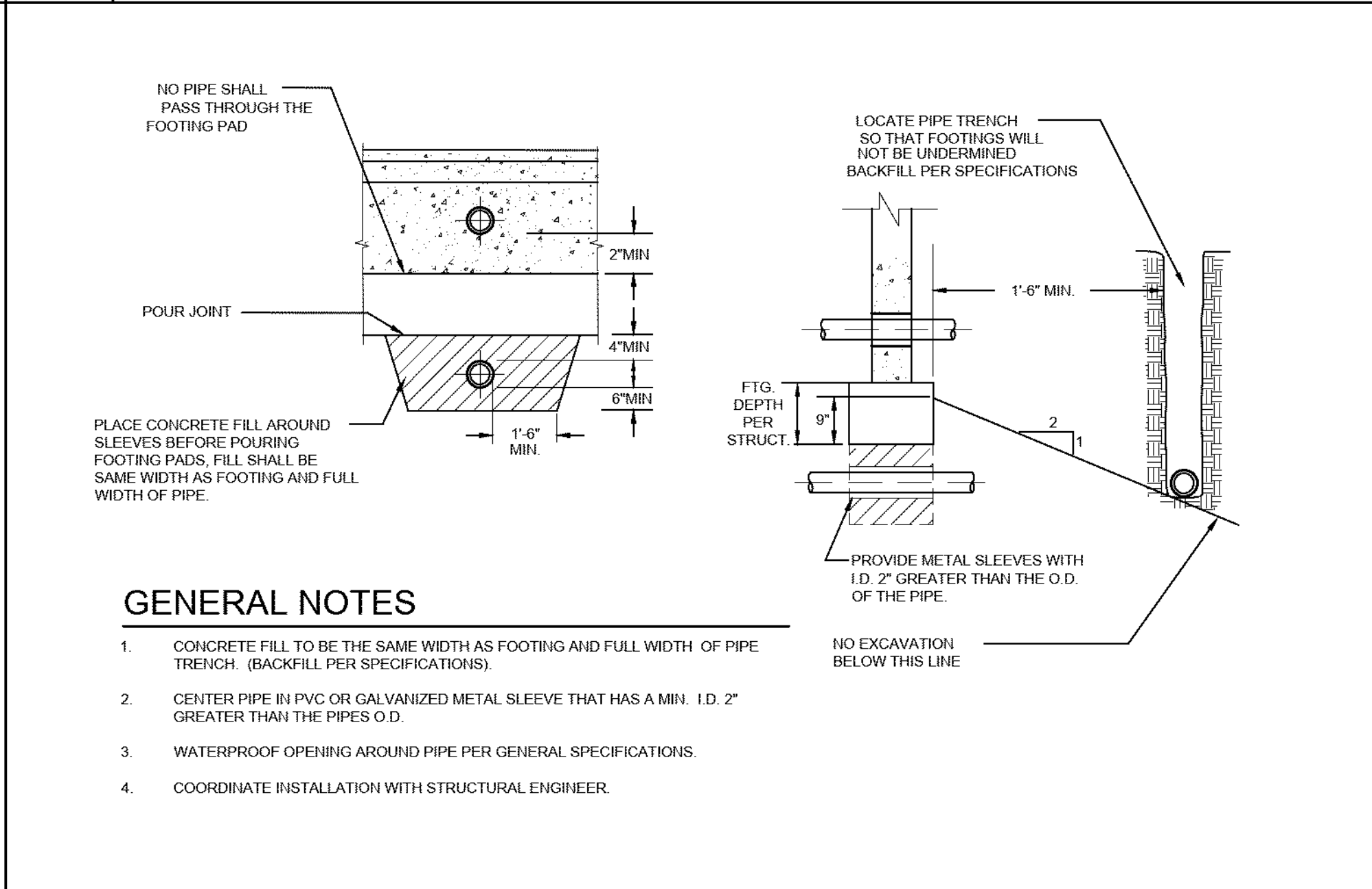
5 METAL PIPE THROUGH CONCRETE FLOOR OVER METAL DECK ASSEMBLY
SCALE: NTS



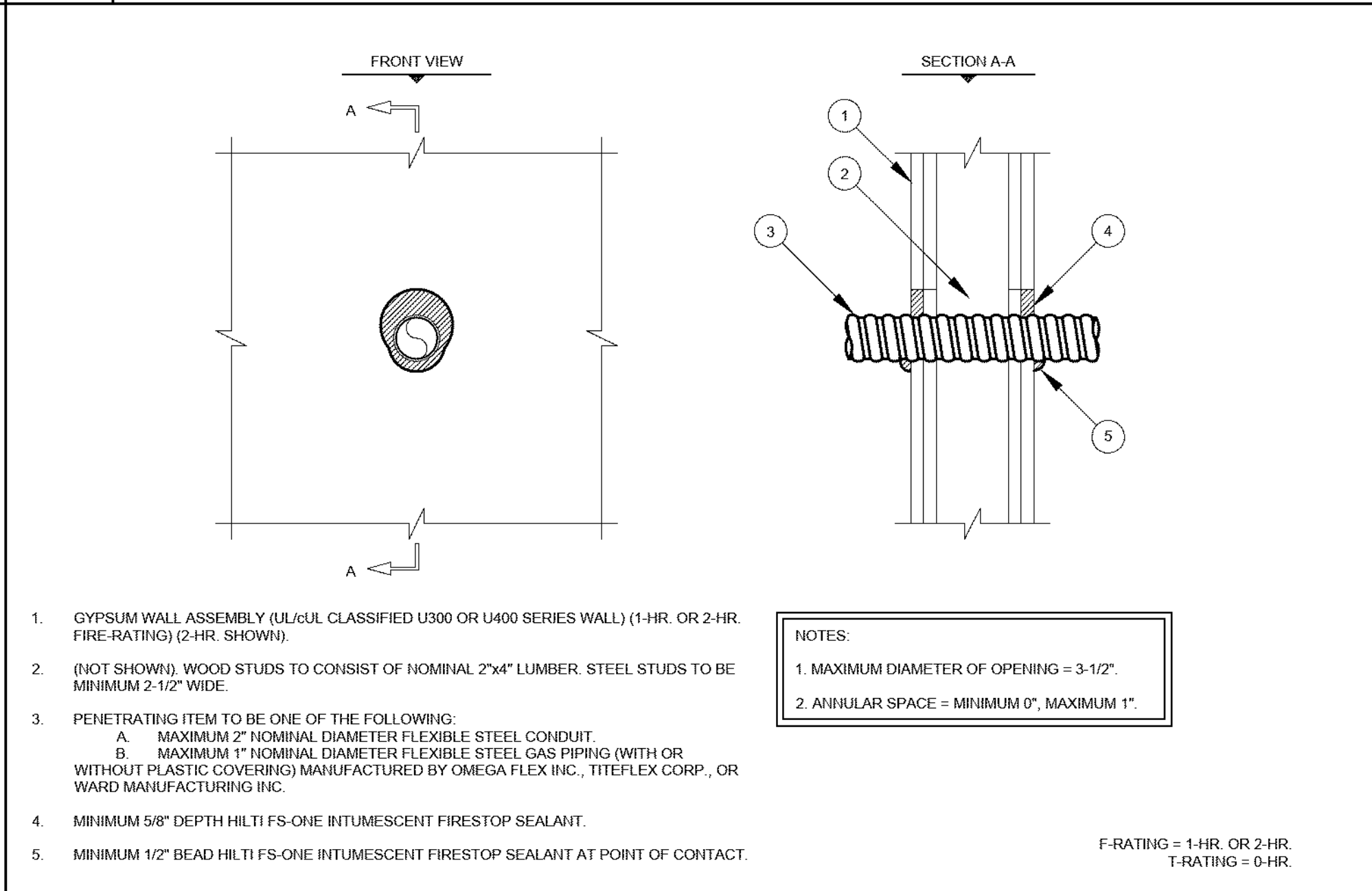
6 METAL PIPE THROUGH CONCRETE FLOOR OR CONCRETE OVER METAL DECKING
SCALE: NTS



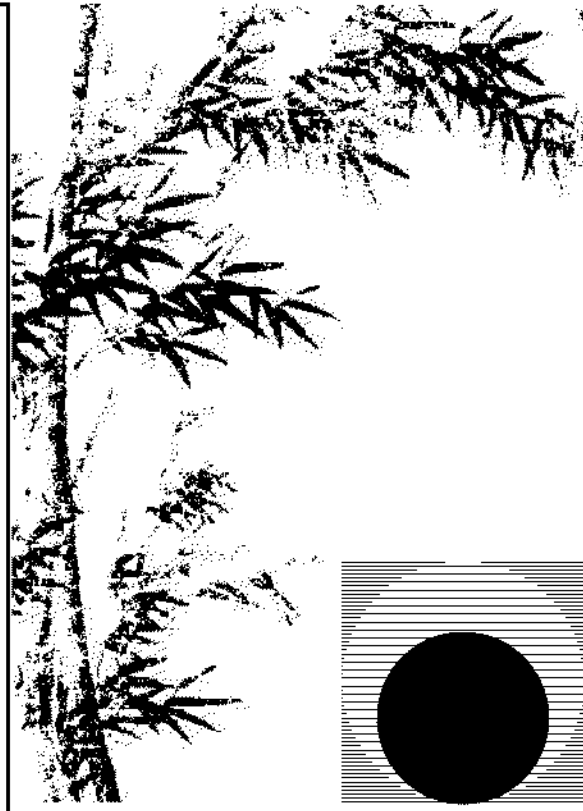
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SCALE: NTS



2 CONDUIT NEAR/THRU FOOTING
SCALE: NTS

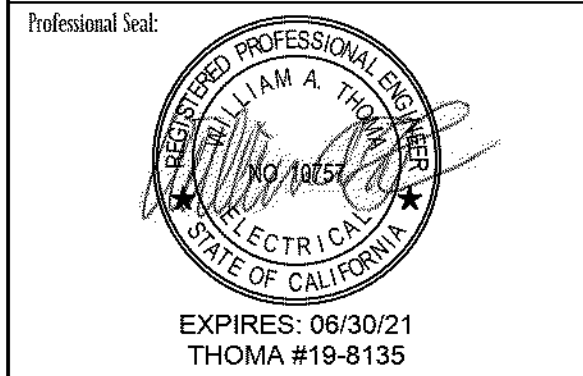


3 FLEXIBLE CONDUIT THROUGH 1HR OR 2HR GYPSUM WALL ASSEMBLY
SCALE: NTS



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New Dispatch Center
Tulare County Sheriff & Fire
5300 West Tulare Avenue
Visalia, California

Sheet Description:
Electrical Details
Date: 8/8/2020
Project: 19-700
Scale: NOTED
Sheet No.:

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Of x Sheets

STATE OF CALIFORNIA

Indoor Lighting

NRCA-LTI-E (revised 7/18)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: New Dispatch Center-Tulare County Sheriff & Fire

Report Page: Page 4 of 6

Project Address: 5300 West Tulare Avenue

Date Prepared: 12/13/2019

L. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED SPECIAL FUNCTION AREAS

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

P. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

Q. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

R. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (PAF)

This Section Does Not Apply

S. RATED POWER REDUCTION COMPLIANCE BY SPACE

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards>

July 2018

STATE OF CALIFORNIA

Indoor Lighting

NRCA-LTI-E (revised 7/18)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: New Dispatch Center Tulare County Sheriff & Fire

Report Page: Page 5 of 6

Project Address: 5300 West Tulare Avenue

Date Prepared: 12/13/2019

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <http://www.energy.ca.gov/2013updates/CDC-400-2015-033/supplies/cecforms/0602>.

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-01-E - Must be submitted for all buildings.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/title24/2016standards>.

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards>

July 2018

STATE OF CALIFORNIA

Indoor Lighting

NRCA-LTI-E (revised 7/18)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: New Dispatch Center Tulare County Sheriff & Fire


Report Page: Page 6 of 6

Project Address: 5300 West Tulare Avenue

Date Prepared: 12/13/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name: William Thoma

Documentation Author Signature: 

Company: Thoma Electric, Inc.

Signature Date: 12/13/2019

Address: 3562 Empleo, Suite C

CEA/HERS Certification Identification (if applicable): E10757

City/State/Zip: San Luis Obispo, CA 93401

Phone: 805-543-3850

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.

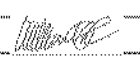
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

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: William Thoma

Responsible Designer Signature: 

Company: Thoma Electric, Inc.

Date Signed: 12/13/2019

Address: 3562 Empleo, Suite C

License: E10757

City/State/Zip: San Luis Obispo, CA 93401

Phone: 805-543-3850

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards>

July 2018

STATE OF CALIFORNIA

Indoor Lighting

NRCA-LTI-E (revised 7/18)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: New Dispatch Center Tulare County Sheriff & Fire

Report Page: Page 1 of 6

Project Address: 5300 West Tulare Avenue

Date Prepared: 12/13/2019

A. GENERAL INFORMATION

01 Project Location (city): Visalia

04 Total Conditioned Floor Area (ft²): 3,934

02 Climate Zone: 13

03 Total Unconditioned Floor Area (ft²): 0

03 Occupancy Types Within Project (select all that apply):

06 # of Stories (Habitable Above Grade): 1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas

☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☒ Other (write in):

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.5 or §140.10(a) for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

01 My Project Consists of (check all that apply):

02 Calculation Method:

03 Area (ft²):

04 Calculation Method:

05 Area (ft²):

☐ New Lighting System

☒ Altered Lighting System

Entire Luminaire Alteration

Area Category:

3,934

Area Category:

0

Total Area of Work (ft²):

3,934

0

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)(3).	Allowed Lighting Power per §140.6(b) (Watts)					Actual Lighting Power per §140.6(a) (Watts)					Compliance Results
	01 Complete Building	02 Area Category	03 Area Category Footcandles	04 Tailored Footcandles (F)	05 Total Allowed (Watts)	06 Total Designed (Watts)	07 Portable Lighting (Watts)	08 PAF Control Credit (Watts)	09 Total Actual (Watts)		
(See Table I)	(See Table I)	(See Table K)	(See Table L)	=	3,540.6	≥	2,458.5	=	2,458.5	05 Must be ≥ 09 §140.6	
Unconditioned:				=		≥		=		COMPLIES	
Conditioned:				=		≥		=		COMPLIES	
Unconditioned:				=		≥		=		COMPLIES	
Conditioned:				=		≥		=		COMPLIES	
Unconditioned:				=		≥		=		COMPLIES	
Conditioned:				=		≥		=		COMPLIES	
Unconditioned:				=		≥		=		COMPLIES	
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Conditioned:				=		≥		=		COMPLIES	
Unconditioned:				=		≥		=		COMPLIES	
Conditioned:				=		≥		=		COMPLIES	
Unconditioned:				=		≥		=		COMPLIES	
Conditioned:				=		≥		=		COMPLIES	
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Conditioned:				=		≥		=		COMPLIES	
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Conditioned:				=		≥		=		COMPLIES	
Unconditioned:				=		≥		=		COMPLIES	
Conditioned:				=		≥		=		COMPLIES	
Unconditioned:				=		≥		=		COMPLIES	
Conditioned:				=		≥		=		COMPLIES	
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Conditioned:				=		≥		=		COMPLIES	
Unconditioned:				=		≥		=		COMPLIES	
Conditioned:				=		≥		=		COMPLIES	
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Conditioned:				=		≥		=		COMPLIES	
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Conditioned:				=		≥		=		COMPLIES	
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Conditioned:				=		≥		=		COMPLIES	
Unconditioned:				=		≥		=		COMPLIES	
Conditioned:											