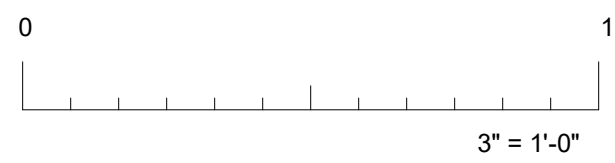
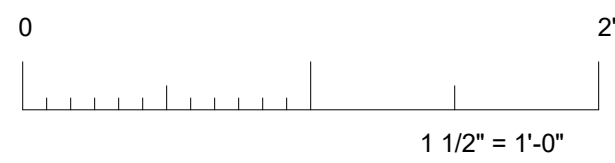
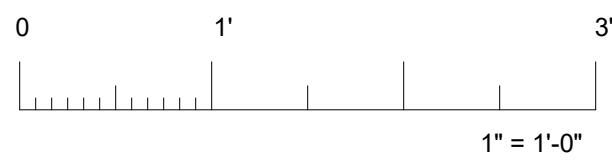
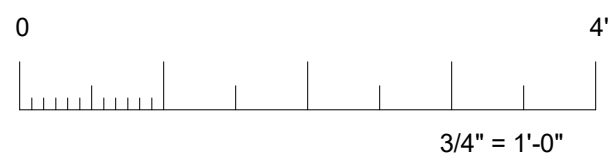
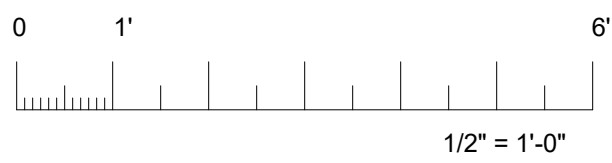
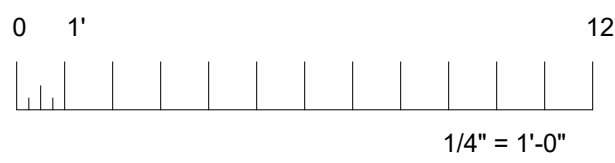
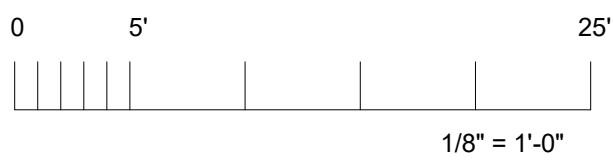


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DUCT LEGEND

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
		RECTANGULAR DUCT - WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)
		1" ACOUSTICALLY LINED RECTANGULAR DUCT-DIMENSIONS ARE OUTSIDE
		2" ACOUSTICALLY LINED RECTANGULAR DUCT-DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
		RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
		RECTANGULAR TO RECTANGULAR TRANSITION, MAX. SLOPE OF 1:3
		RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3
		ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
		SQUARE RECTANGULAR DUCT ELBOW WITH TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
		CONICAL DUCT TAKE OFF FROM RECTANGULAR VIA SPIN-IN WIDAMPER AND SCOOP
		ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT TEE, MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP
		3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S ON THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT, DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. FOR EXPOSED DUCT, DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
		SUPPLY AIR, SUPPLY AIR DUCT IN SECTION, SUPPLY DROP
		RETURN AIR, RETURN AND OUTSIDE AIR DUCT IN SECTION, RETURN AIR DROP
		EXHAUST AIR, EXHAUST AIR DUCT IN SECTION, EXHAUST AIR DROP
		FLEXIBLE DUCT (ROUND)
		45° REDUCING LATERAL FITTING
		90° REDUCING TEE FITTING

MECHANICAL GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
- VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
- COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
- COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE AND EQUIPMENT PRIOR TO COMMENCING WORK.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
- FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.
- FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.
- ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
- (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED ("X") OUT. SEE LEGEND, COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
- WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9" DIA. & 9x9) CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM TO ACCOMMODATE THE ROUND DUCT CONNECTION.
- THERMOSTAT TO BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TOP OF THERMOSTAT), DO NOT INSTALL THERMOSTAT OVER CASEWORK OR SHELVING OVER 24" IN DEPTH & 34" IN HEIGHT. REFER TO CBC SECTION 11B-308 FOR ADDITIONAL REQUIREMENTS.

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE
	AF	ABOVE FLOOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AD, AP	ACCESS DOOR, ACCESS PANEL
	AC	AIR CONDITIONING
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	AB	ANCHOR BOLT
	BDD	BACK DRAFT DAMPER
	BF	BELOW FLOOR
	BHP	BRAKE HORSE POWER
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	BPT	BYPASS TIMER
	CC	CENTER TO CENTER
	CLG	CEILING
	CEF	CEILING EXHAUST FAN
	CLR	CLEAR
	CONC	CONCRETE
	CD	CONCENTRIC REDUCER
	COND	CONDENSATE DRAIN
	CONDN	CONDENSER
	CONN	CONNECT OR CONNECTION
	CONT	CONTINUATION
	CONTR	CONTRACTOR
	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	DPR	DAMPER
	DIA	DEGREES FAHRENHEIT
	DL	DIAMETER, PHASE
	DN	DOOR LOUVER
	DR	DRAIN
	DB	DRY BULB (DEGREES FAHRENHEIT)
	DS	DYNAMIC SENSOR
	EP	ECCENTRIC REDUCER
	EL	ELEVATION
	ENT	ENTERING
	EDB	ENTERING DRY BULB
	EW	ENTERING WATER
	EWT	ENTERING WATER TEMPERATURE
	EWB	ENTERING WET BULB
	EVAP	EVAPORATOR
	EC	EVAPORATIVE COOLER
	EA	EXHAUST AIR
	EAD	EXHAUST AIR DAMPER
	EF	EXHAUST FAN
	(E), EXIST	EXISTING
	(E)	EXISTING TO BE REMOVED
	(E)	EXISTING TO BE ABANDONED
	(E)	EXISTING TO BE CAPPED
	ESP	EXTERNAL STATIC PRESSURE
	FFM	FEET PER MINUTE
	FIN	FINISH
	FD	FIRE DAMPER
	FS	FIRE/SMOKE DAMPER
	FC	FLEXIBLE CONNECTION
	FLR	FLOOR
	FLV	FLOW IN DIRECTION OF ARROW
	FA	FLOW LIMITING VALVE
	FB	FROM ABOVE
	FLA	FROM BELOW
	GALV	FULL LOAD AMPS
	GI	GALVANIZED
	GA	GALVANIZED IRON
		GAUGE

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

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

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

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E).

MP ☐ MD ☐ PP ☐ E ☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP ☒ MD ☒ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13.

MECHANICAL LEGEND cont'd

SYMBOL	ABBREVIATION	DESCRIPTION
	HTG	HEATING
	H	HUMIDISTAT, "X" INDICATES DEVICE CONTROLLED
	IE	INVERT ELEVATION
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	LDB	LEAVING DRY BULB IN DEGREES FAHRENHEIT
	LWB	LEAVING WET BULB IN DEGREES FAHRENHEIT
	LRA	LOCKED ROTOR AMPERES
	LVR	LOUVER
	MAD, MD	MANUAL AIR DAMPER
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	MCC	MOTOR CONTROL CENTER
	(N)	NEW
	OC	ON CENTER
	OA	OUTSIDE AIR
	OAD	OUTSIDE AIR DAMPER
	OD	OUTSIDE DIAMETER
	OV	OUTLET VELOCITY
	OH	OVERHEAD
		PIPE DROP
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
		POINT OF CONNECTION
	PBS	POUNDS
	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
	PD	PRESSURE DROP
	PRV	PRESSURE REDUCING VALVE
	RG	REFRIGERANT GAS PIPING
	RS	REFRIGERANT SUCTION PIPING
	RL	REFRIGERANT LIQUID PIPING
	RA	RETURN AIR
	RAD	RETURN AIR DAMPER
	RFM	REVOLUTIONS PER MINUTE
	RLA	RUNNING LOAD AMPERES
	SB	SECURITY BARS
	SM	SHEET METAL
	SD	SMOKE DAMPER
	SKD	SMOKE DETECTOR
	SD	SPLITTER DAMPER
	SQFT, FT2	SQUARE FEET
	SQIN, IN2	SQUARE INCHES
	SP	STATIC PRESSURE
	SPD	STATIC PRESSURE DROP
	SA	SUPPLY AIR
	SF	SUPPLY FAN
	TCP	TEMPERATURE CONTROL PANEL
	TCV	TEMPERATURE CONTROL VALVE
		TEMPERATURE SENSOR, "X" INDICATES DEVICE CONTROLLED
	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE
	TSP	TOTAL STATIC PRESSURE
	TYP	TYPICAL
	UG	UNDERGROUND
	UCD	UNDER CUT DOOR
	UN	UNLESS OTHERWISE NOTED
	WPD	WATER PRESSURE DROP
	W	WATTS
	WT	WEIGHT
	WB	WET BULB
	WMS	WIRE MESH SCREEN

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

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

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

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

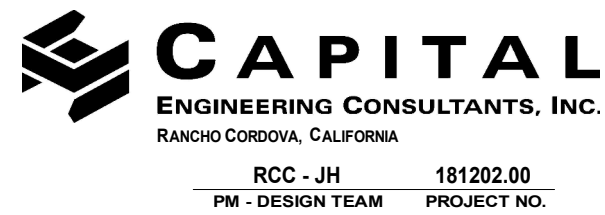


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Architect/Engineer Of Record:



HY Architects Project number: 5241

Facility
WALNUT CREEK SCHOOL DISTRICT
2425 WALNUT BOULEVARD, WALNUT CREEK, CA 94597

Project

MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

Sheet Title HVAC LEGENDS AND NOTES

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Scale: 12" = 1'-0"

Drawn By: RC/JH

Checked By: TD

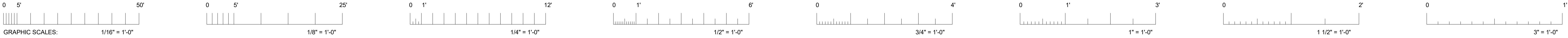
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EXHAUST FAN SCHEDULE

UNIT	SERVES	"GREENHECK" MODEL NO. U.N.C.	CFM	SP (IN. W.G.)	DUTY	STYLE	RPM	HP (WATTS)	VOLT/PH	OPER. WT. (LBS.)	INTERLOCK TO RUN WITH	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
REF 601A	WORK ROOM 601A	G-095-VG	200	0.375	E	RED	1,240	0.1	120/1	30	TIMECLOCK	1 MS.1C	4 MS.1C	1 3 5
REF 603A	LIBRARY/ PRACTICE 603A	G-095-VG	200	0.375	E	RED	1,240	0.1	120/1	30	TIMECLOCK	1 MS.1C	4 MS.1C	1 3 5
REF 604	KILN 604	G-095-VG	200	0.375	E	RED	1,240	0.1	120/1	30	TIMECLOCK	1 MS.1C	4 MS.1C	1 3 5
REF 605	GIRLS 605	G-103-VG	450	0.375	E	RED	1,080	0.25	120/1	35	TIMECLOCK	2 MS.1C	4 MS.1C	1 3 5
CEF 608	CUST 608	G-095-VG	200	0.375	E	RED	1,240	0.1	120/1	30	TIMECLOCK	1 MS.1C	4 MS.1C	1 3 5
CEF 610	STAFF 610	SP-A200	125	0.375	E	CE	760	(30)	120/1	25	OCC SENSOR	1 MS.1C	4 MS.1C	1 2 4
REF 611	BOYS 611	G-103-VG	450	0.375	E	RED	1,080	0.25	120/1	35	TIMECLOCK	2 MS.1C	4 MS.1C	1 3 5

DUTY: E- EXHAUST
STYLE: CE- CEILING, RED- ROOF EXHAUST DOWNBLAST

- NOTES: 1 PROVIDE WITH THERMAL OVERLOAD PROTECTED MOTOR. 4 INTERLOCK FAN TO OCCUPANCY SENSOR, BY DIV. 26.
2 PROVIDE WITH FACTORY BACKDRAFT DAMPER & SPEED CONTROLLER. 5 CONTROL FAN WITH EMS SYSTEM SCHEDULING.
3 PROVIDE WITH FACTORY ROOF CURB, BACKDRAFT DAMPER & SPEED CONTROLLER.

DIFFUSER, REGISTER & GRILLE SCHEDULE

SYMBOL	DESCRIPTION	KRUEGER	METALAIRE	NAILOR	TITUS	TUTTLE & BAILEY
CD 	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER BEVEL FRAME 3/4" DROP	1240 FRAME 21 - 1-1/4"	9000-2	7500-S	MCD BORDER TYPE 6	SQD-SB
CR & CE 	CEILING RETURN OR EXHAUST WITH 1/2" EGG CRATE CORE FOR SURFACE MOUNT	EGC-5	CCSD	61 EC-S	MODEL 50 F BORDER TYPE 1	CRE600-SF
S * 	DOUBLE DEFLECTION SUPPLY GRILLE WITH VERTICAL FRONT BARS, 3/4" SPACING	880 V	V 4004 S	61 DV	300 RS	T54
R & E * 	RETURN OR EXHAUST GRILLE WITH 35" OR 45" HORIZONTAL BARS.	S 80 H	SRH	7145 H	350 RL	T700
SH 	HEAVY DUTY DOUBLE DEFLECTION SUPPLY GRILLE WITH VERTICAL FRONT BARS, 3/4" SPACING.	EQUAL	4502	61 HD	EQUAL	T155
RH & EH 	HEAVY DUTY RETURN OR EXHAUST GRILLE WITH 35" OR 45" HORIZONTAL BARS	S 480 H	HDRH	6145 HD	33 RL	T115H-40

- NOTES: 1. ALL SYMBOLS NOTED MAY NOT BE USED.
REFER TO PLANS FOR SIZE AND QUANTITY.
2. ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW
UNLESS SHOWN OTHERWISE.
3. FURNISH ALL PRODUCTS OF A SINGLE
MANUFACTURER.
4. COORDINATE DIFFUSER TYPE WITH
REFLECTED CEILING PLAN.
5. OPPOSED BLADE DAMPERS ARE NOT
REQUIRED AT DIFFUSERS, REGISTERS OR
GRILLES.
6. PROVIDE MANUAL AIR DAMPERS AT EACH
BRANCH DUCT TO A SINGLE DIFFUSER,
REGISTER OR GRILLE.
- * ALUMINUM REGISTERS
FOR SHOWERS AND
DAMP AREAS

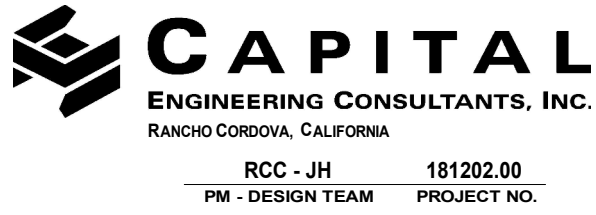


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2425 WALNUT BOULEVARD, WALNUT
CREEK, CA 94597

Project
MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III

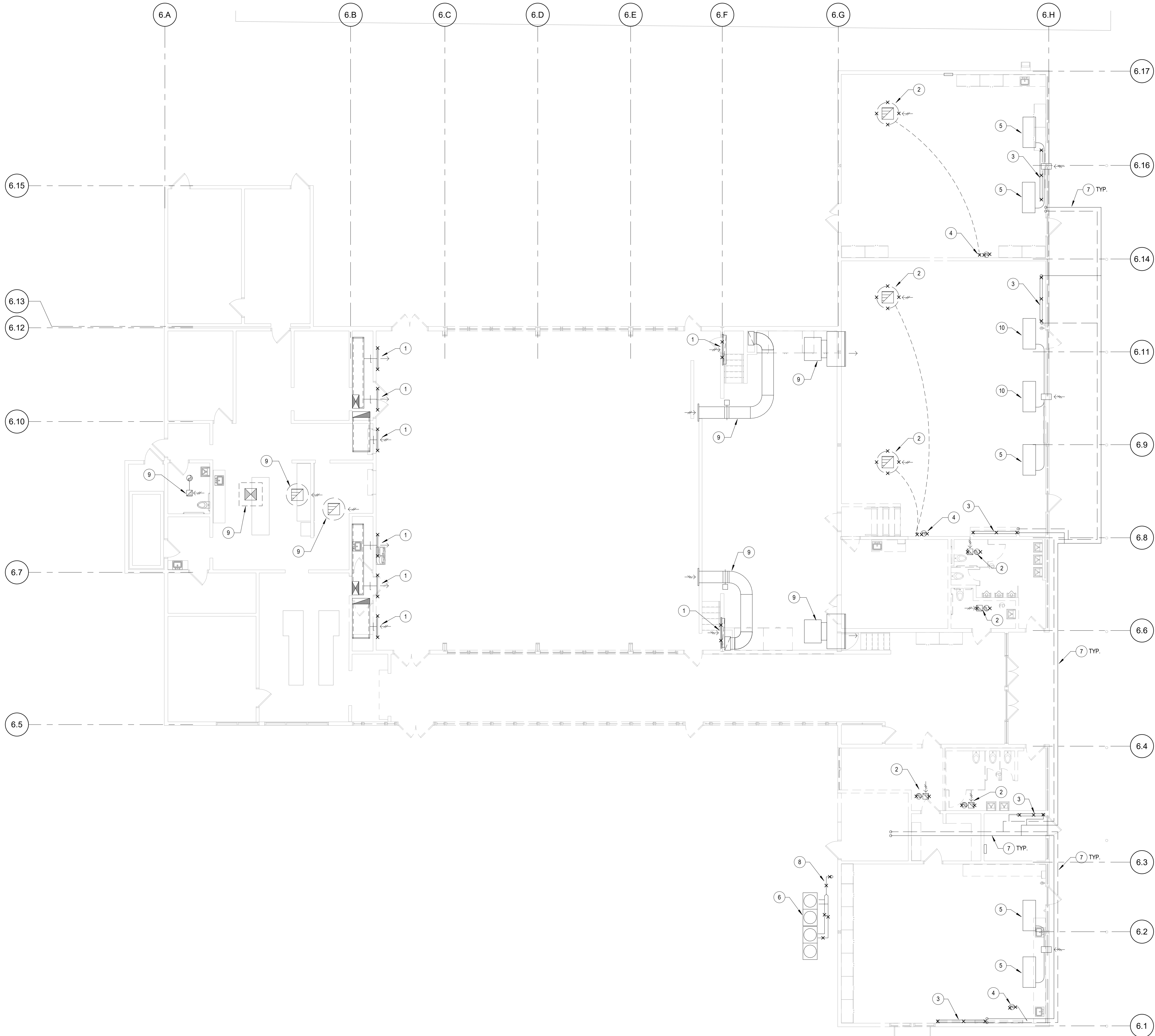
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HVAC SCHEDULES

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DEMOLITION SHEET NOTES:

1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. RECORD THE EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 230000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.
3. WHERE INSTALLED AT EXISTING CLASSROOMS, REMOVE WIRELESS HVAC DOOR CONTACT AT EXTERIOR DOORS.

DEMOLITION KEYNOTES:

- 1 REMOVE EXISTING WALL GRILLES. PREPARE DUCTWORK FOR CONNECTION TO NEW GRILLES SHOWN ON SHEET M2.6.
- 2 REMOVE EXISTING EXHAUST FAN, CONTROLS AND SUPPORTS.
- 3 REMOVE EXISTING UNIT VENTILATOR AND CAP PIPING BEHIND ARCHITECTURAL FINISHES.
- 4 REMOVE EXISTING THERMOSTAT AND EXHAUST FAN SWITCHES.
- 5 EXISTING INDOOR HEAT PUMP, PIPING AND OUTSIDE AIR DUCTWORK TO REMAIN.
- 6 EXISTING OUTDOOR HEAT PUMP TO BE RELOCATED, REFER TO SHEET M3.6.
- 7 EXISTING HEATING HOT WATER PIPING BELOW GRADE TO BE ABANDONED.
- 8 REMOVE EXISTING REFRIGERANT PIPING UP TO ROOF, REFER TO 1/M2.6 FOR CONTINUATION OF PIPING TO BE REMOVED UP TO NEW POINT OF CONNECTION.
- 9 EXISTING HVAC EQUIPMENT & DUCTWORK TO REMAIN, TYP.
- 10 RELOCATE EXISTING INDOOR HEAT PUMP TO LOCATION SHOWN ON SHEET M2.6. PREPARE EXISTING REFRIGERANT PIPING, 8" OUTSIDE AIR DUCTS AND CONTROL WIRING FOR NEW CONNECTION.

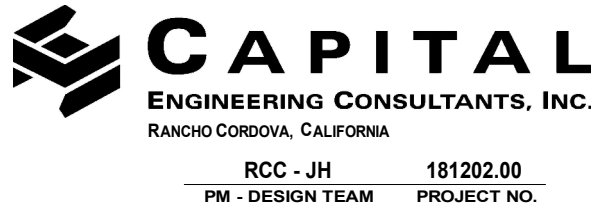


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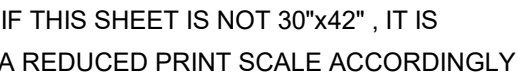
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2425 WALNUT BOULEVARD, WALNUT CREEK, CA 94597

Project
MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

Sheet Title
BUILDING 600 - HVAC DEMOLITION PLAN

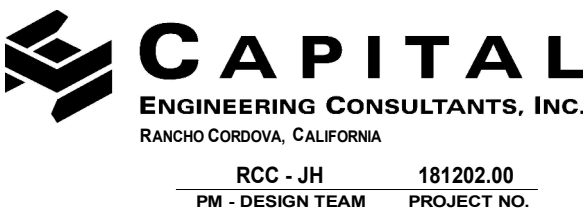
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Revit Version: 2019	Sheet 59 of 95



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Facility

WALNUT CREEK SCHOOL DISTRICT
2425 WALNUT BOULEVARD, WALNUT
CREEK, CA 94597

Project

MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III

Sheet Title

BUILDING 600 - HVAC FLOOR
PLAN

Client Project Number:	Client Proj. #
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Scale: $1/8" = 1'-0"$

Drawn By: RCUH

Checked By: TD

Revit Version: 2019

Sheet

M2.6

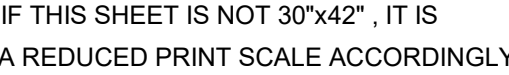
Sheet 60 of 95



1
M2.6

BUILDING 600 - HVAC FLOOR PLAN

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



1. COORDINATE OUTSIDE AIR INTAKE LOCATIONS W/ PLUMBING VENT(S) THRU ROOF, EXHAUST AIR DISCHARGE(S), FLUE VENT(S), ETC. TO MAINTAIN A MINIMUM WORKING CLEARANCE OF 10'-0", TYP.

KEYNOTES:

- 1 MANUFACTURER'S ROOF CAP.
- 2 EXISTING REFRIGERANT PIPING TO REMAIN.
- 3 RELOCATED OUTDOOR HEAT PUMP. REFER TO 5M5.1C FOR MOUNTING DETAILS. CONNECT REFRIGERANT PIPING AND CONTROL WIRING TO EXISTING SYSTEM.
- 4 PROVIDE "MASON" U/LCS FLEXIBLE HOSE CONNECTORS FOR REFRIGERANT PIPING CONNECTION TO OUTDOOR HEAT PUMP.
- 5 REFRIGERANT PIPING MOUNTED ON ROOF, REFER TO 6M5.1C FOR DETAIL.
- 6 EXISTING REFRIGERANT PIPING SERVING INDOOR HEAT PUMP UNITS TO REMAIN.
- 7 EXISTING REFRIGERANT PIPING ON THE ROOF TO BE REMOVED. REFER TO NOTES ON M1.6 FOR ADDITIONAL INFORMATION.



Revisions			
Delta	Date	Revisions	By

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PROGRESS DRAWINGS

INCREMENT III

ISSUE DATE: 11/3/20 BY: MH



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Architect/Engineer Of Record:



HY Architects Project number:	5241
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Facility

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CREEK, CA 94597

Projec

MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

Sheet Title

BUILDING 600 HVAC ROOF
PLAN

Client Project Number:

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

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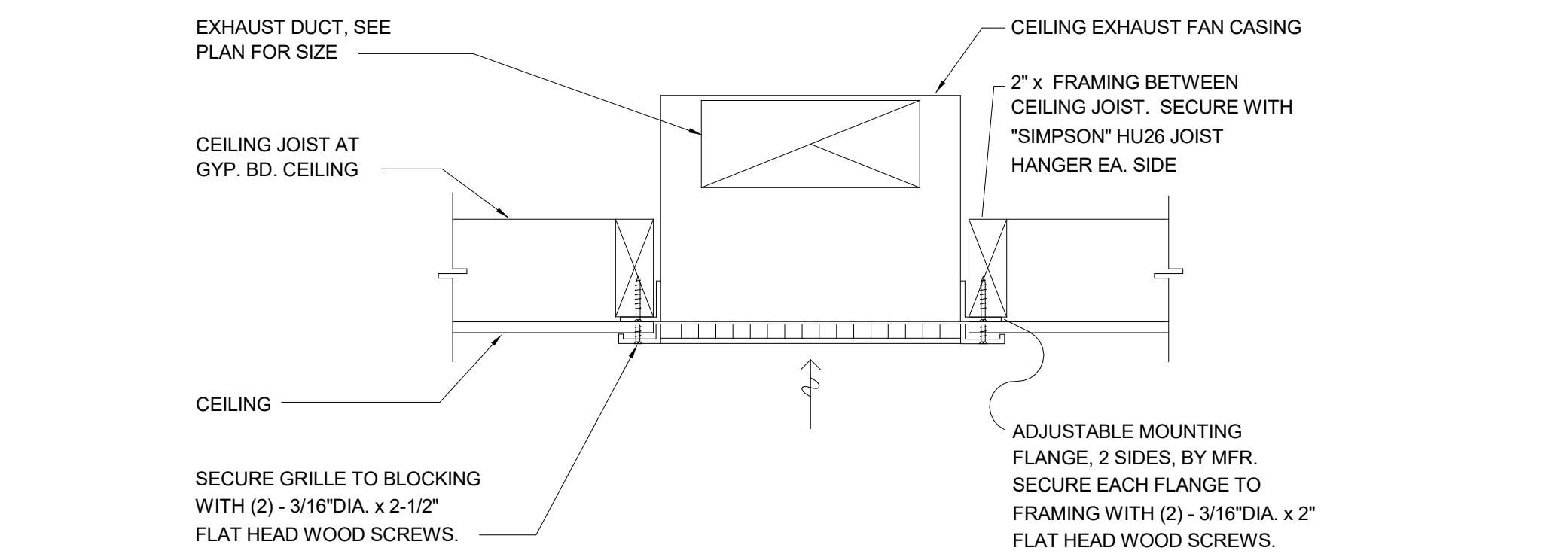
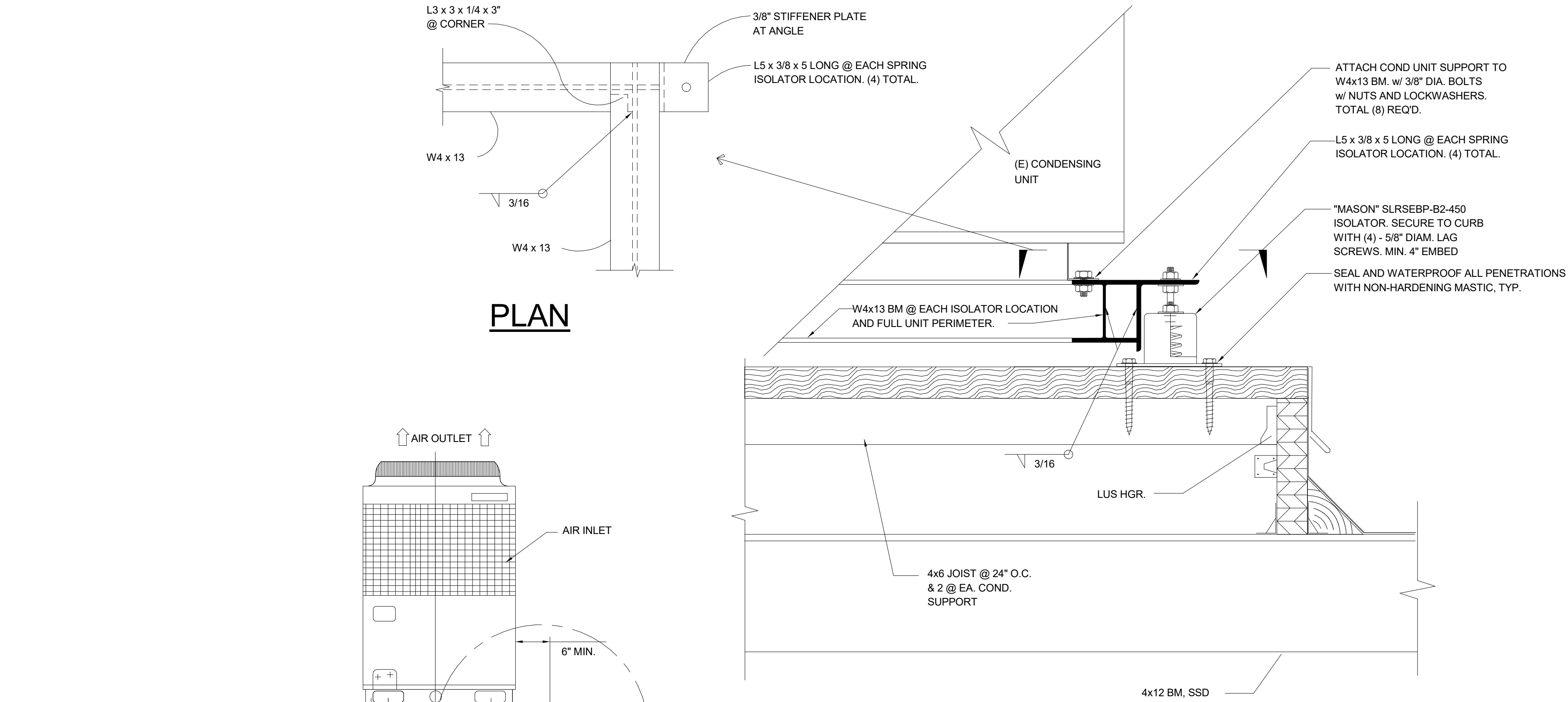
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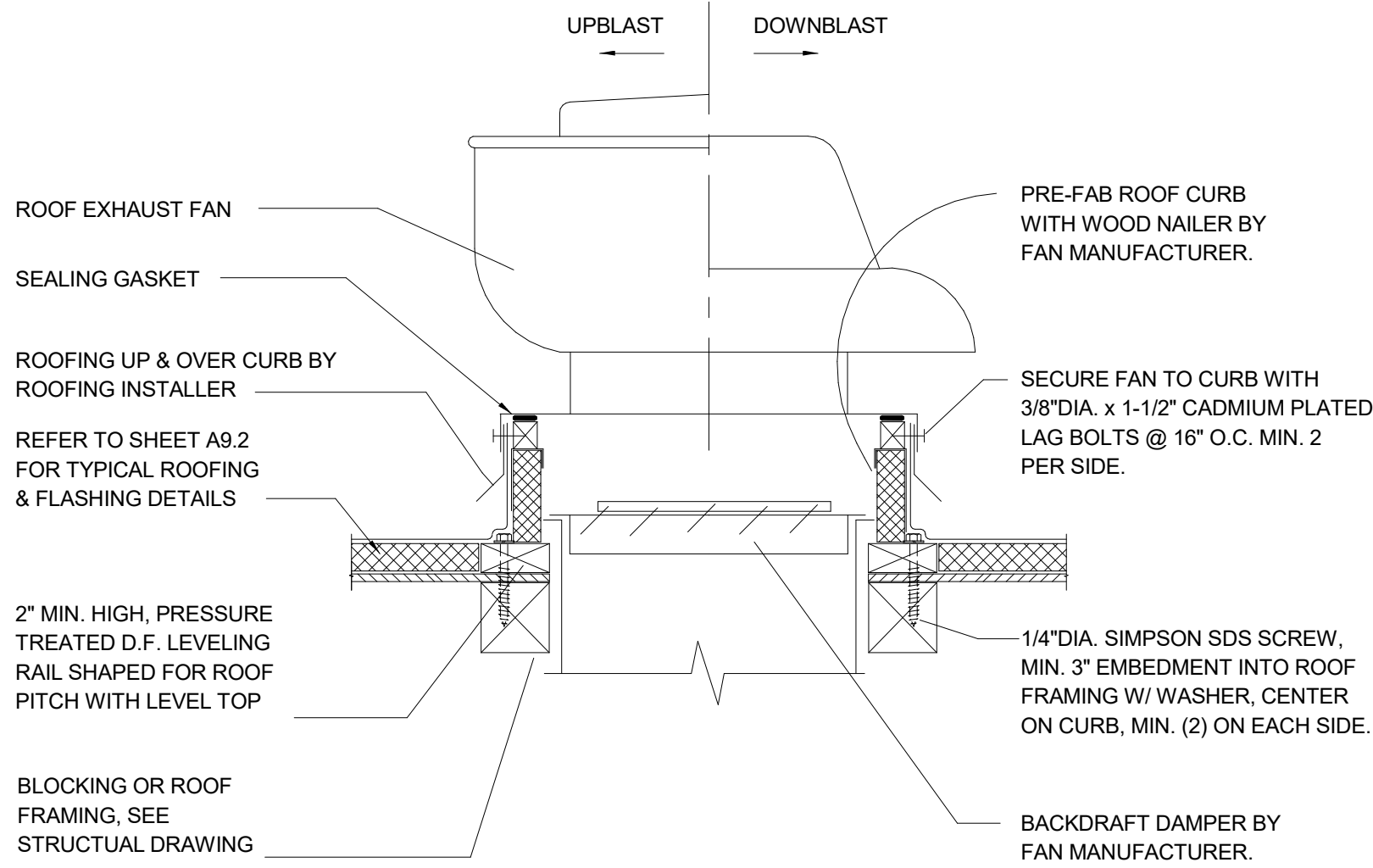
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CEILING EXHAUST FAN MOUNTING

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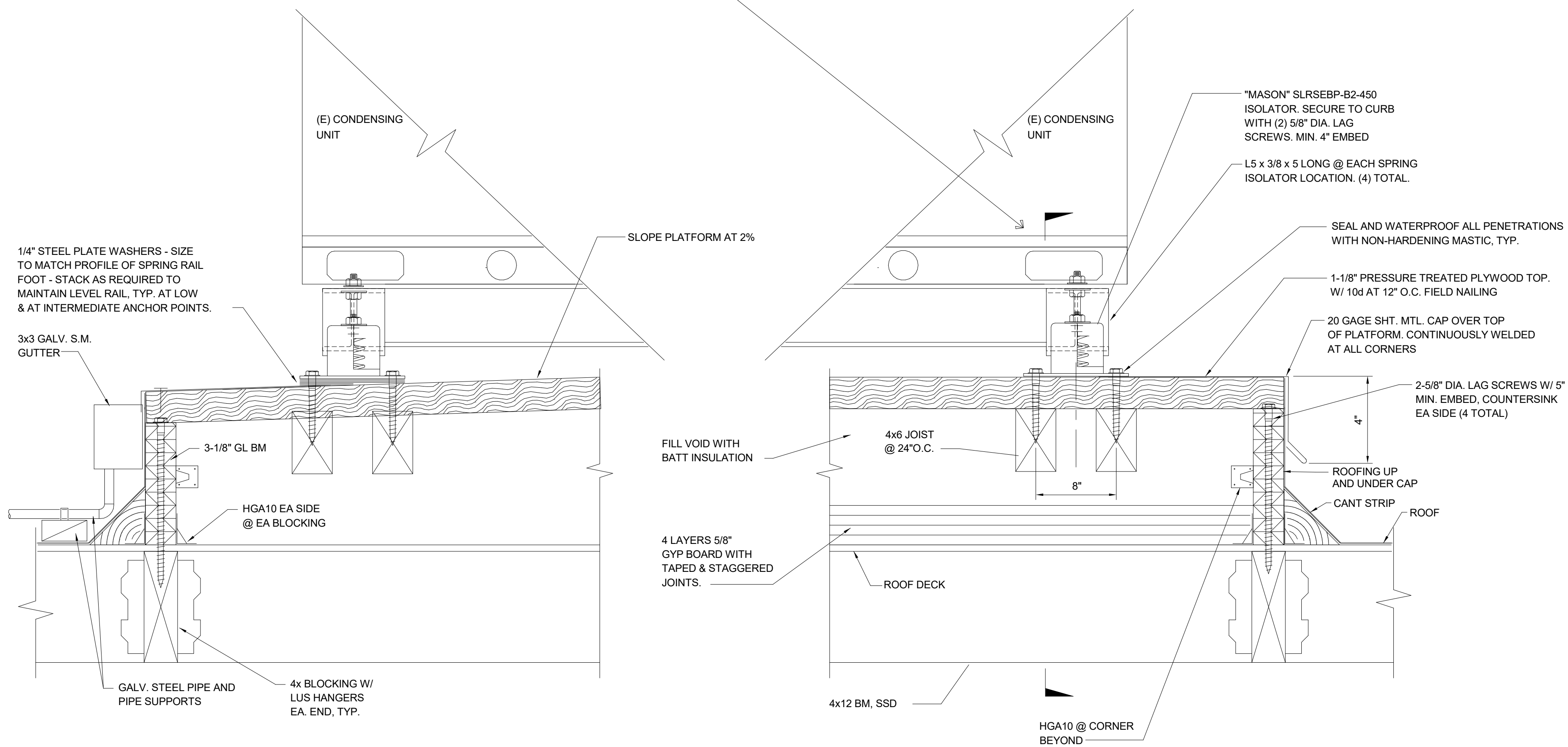
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REF MOUNTING

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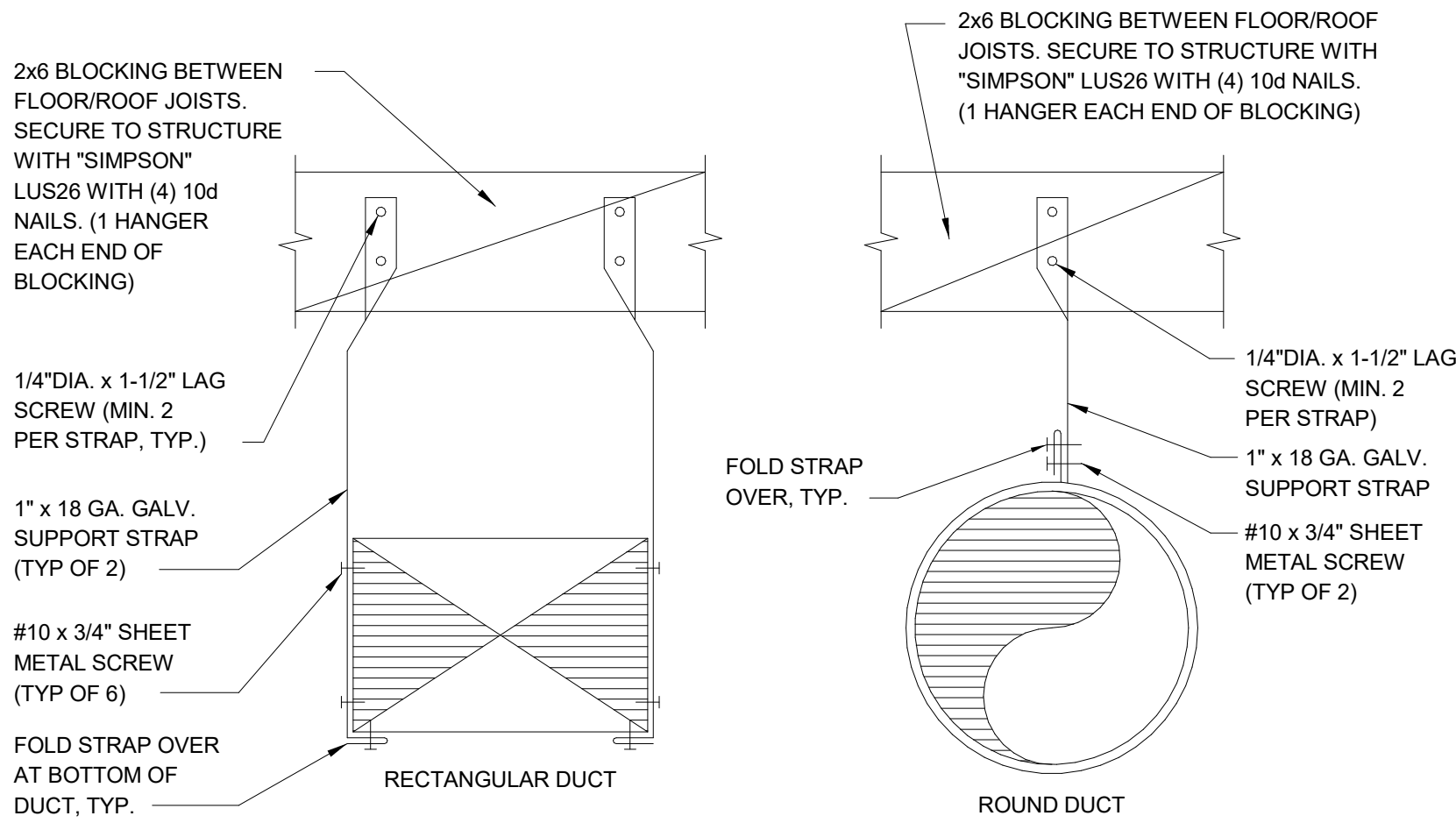
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CONDENSING UNIT MOUNTING

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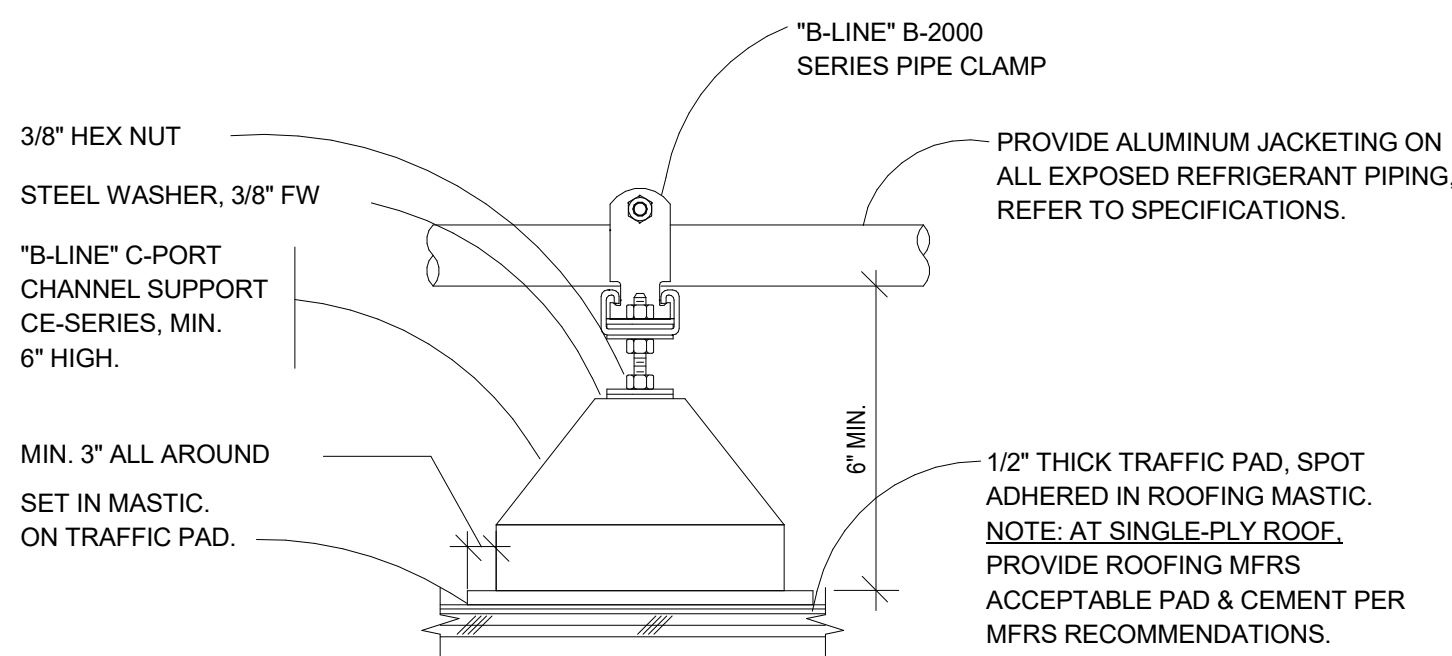
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TYPICAL DUCT SUPPORT

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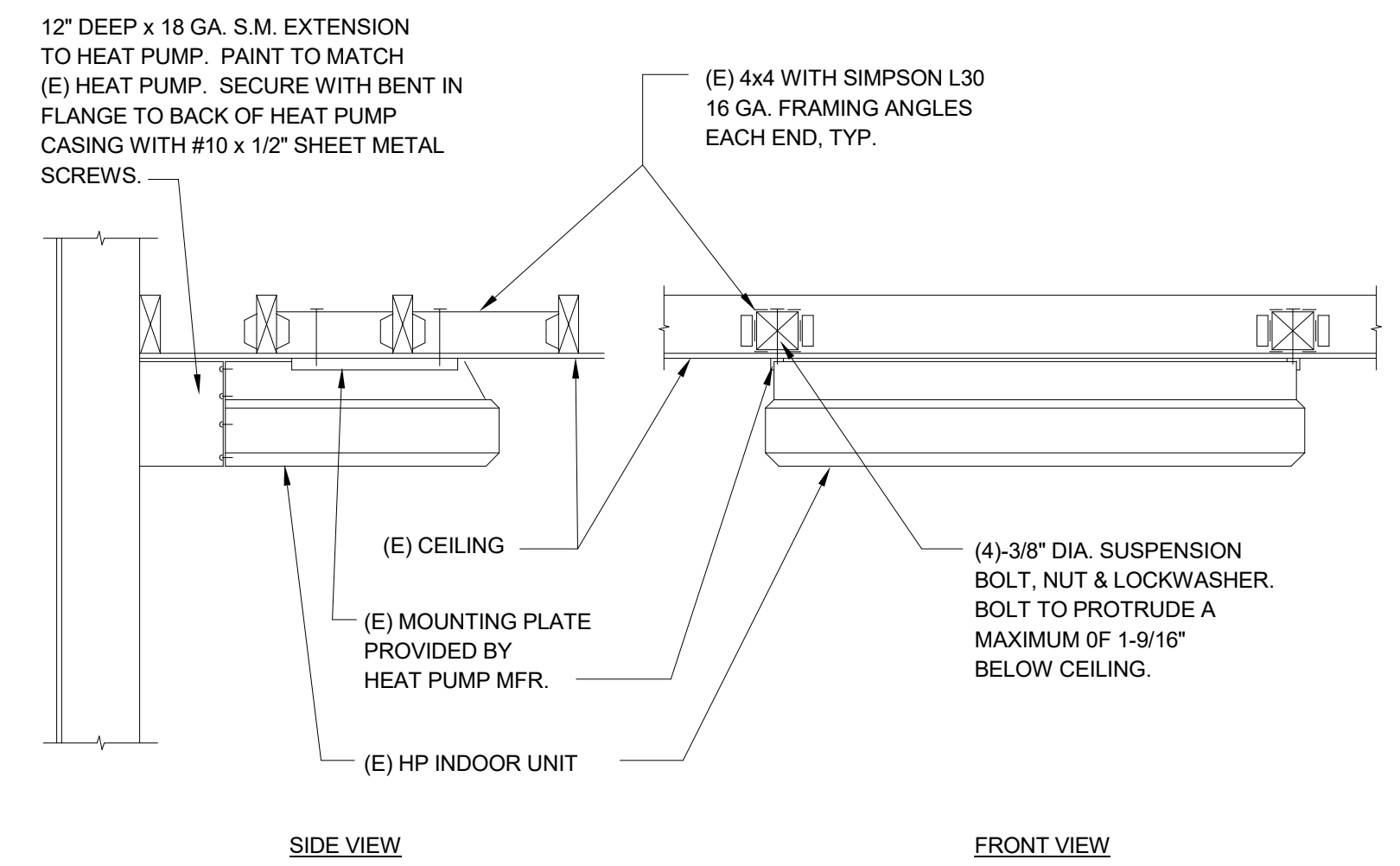
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M5.1C



PIPE ON ROOF MOUNTING DETAIL

SCALE : NONE

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M5.1C



HP INDOOR UNIT MOUNTING DETAIL

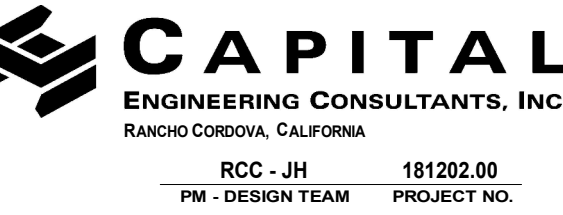
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M5.1C



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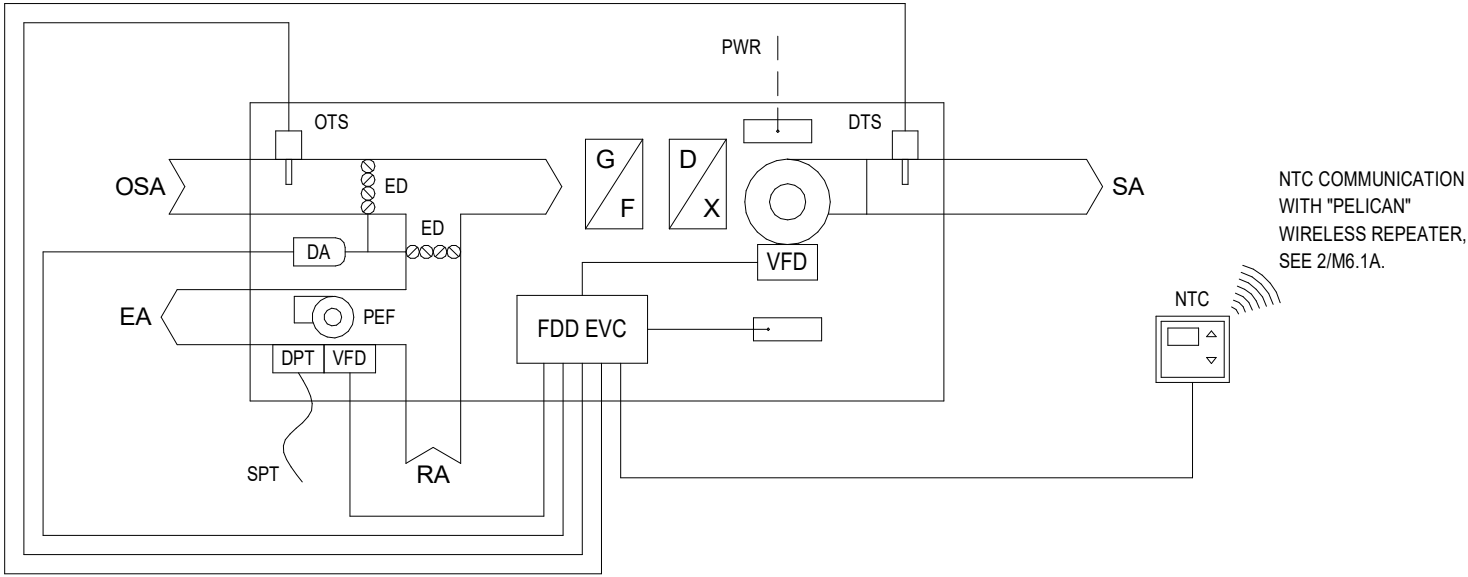
HY Architects Project number: 5241

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WALNUT CREEK SCHOOL DISTRICT
2425 WALNUT BOULEVARD, WALNUT CREEK, CA 94597

Project
MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

Sheet Title
HVAC DETAILS

Client Project Number:	Client Proj. #
Scale: 12" = 1'-0"	Sheet
Drawn By: RC/JH	M5.1C
Checked By: TD	
Issue Date: 11/3/20	
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SEQUENCE OF OPERATION

GENERAL:
THE NETWORK THERMOSTAT SHALL BE PROGRAMMED AS DIRECTED BY THE DISTRICT FOR OCCUPIED PERIODS, UNOCCUPIED PERIODS, AND HOLIDAYS. THE NETWORK THERMOSTAT SHALL BE CAPABLE OF RECEIVING A UTILITY COMPANY 'AUTOMATED DEMAND RESPONSE' (ADR) SIGNAL, VIA WIRELESS SIGNAL FROM INTERNET CONNECTED WIRELESS GATEWAY. THE AC UNIT SHALL PROVIDE MINIMUM OUTSIDE AIR VENTILATION FOR 1 HOUR PRIOR TO SCHEDULED OCCUPANCY. DURING PERIODS OF OCCUPANCY, OR IF THE NETWORK THERMOSTAT OVERRIDE BUTTON IS PUSHED, THE SUPPLY FAN VFD SHALL BE ENABLED AND STAGED HEATING OR COOLING SHALL BE PROVIDED TO MAINTAIN ROOM TEMPERATURE SETPOINT. TCC SHALL INSTALL IN EACH AC UNIT THE 'FAULT DETECTION & DIAGNOSTICS' (FDD) ECONOMIZER/VENTILATION CONTROLLER AND TEMPERATURE SENSORS. THE POWER EXHAUST FAN VFD SHALL BE ENABLED WHENEVER THE AC UNIT SUPPLY FAN IS RUNNING. THE POWER EXHAUST DIFFERENTIAL PRESSURE TRANSDUCER SHALL AUTOMATICALLY MODULATE THE POWER EXHAUST FAN VFD TO MAINTAIN A SLIGHT POSITIVE PRESSURE IN THE ROOMS SERVED. CONTRACTOR SHALL COMMISSION THE POWER EXHAUST SYSTEM TO MAINTAIN ROOM PRESSURE BETWEEN 0.01" AND 0.03" POSITIVE UNDER ALL OPERATING CONDITIONS. THE OUTSIDE AIR DAMPER SHALL MODULATE FULLY CLOSED WHENEVER THE AC UNIT IS DISABLED.

COOLING:
ON A CALL FOR COOLING, IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE ECONOMIZER LOCKOUT TEMPERATURE SET AT 75 DEG F (ADJUSTABLE), THE ECONOMIZER DAMPERS SHALL MODULATE AND THE SUPPLY FAN VFD SHALL MODULATE AS NEEDED TO OPERATE AS THE FIRST STAGE OF COOLING. ON AN ADDITIONAL CALL FOR COOLING, IF THE OUTSIDE AIR TEMPERATURE IS ABOVE THE COOLING LOCKOUT TEMPERATURE SET AT 60 DEG F (ADJUSTABLE), STAGES OF DX COOLING SHALL BE ENABLED IN CONJUNCTION WITH THE ECONOMIZER TO MAINTAIN ROOM COOLING SETPOINT (INTEGRATED ECONOMIZER OPERATION). IF ROOM SETPOINT STILL CANNOT BE MAINTAINED, OR IF THE OUTSIDE AIR TEMPERATURE RISES ABOVE THE ECONOMIZER LOCKOUT TEMPERATURE, THE ECONOMIZER DAMPERS SHALL MODULATE TO LOWER MINIMUM POSITION, STAGES OF DX COOLING SHALL BE ENABLED, AND SUPPLY FAN VFD SHALL MODULATE AS NEEDED TO MAINTAIN ROOM COOLING SETPOINT. SUPPLY FAN AIRFLOW SHALL NEVER BE LESS THAN 66% OF FULL AIRFLOW.

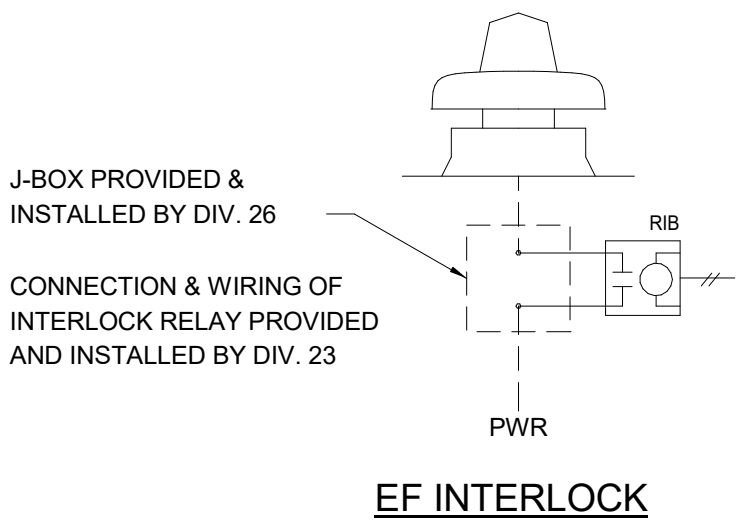
HEATING:
ON A CALL FOR HEATING, IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE HEATING LOCKOUT TEMPERATURE SET AT 65 DEG F (ADJUSTABLE), THE ECONOMIZER DAMPERS SHALL MODULATE TO LOWER MINIMUM POSITION, STAGES OF HEATING SHALL BE ENABLED, AND THE SUPPLY FAN VFD SHALL MODULATE AS NEEDED TO MAINTAIN ROOM HEATING SETPOINT. SUPPLY FAN AIRFLOW SHALL NEVER BE LESS THAN 66% OF FULL AIRFLOW.

DEMAND CONTROLLED VENTILATION:
CO2 CONTROL OVER THE ECONOMIZER SHALL ALWAYS TAKE PRECEDENCE OVER HEATING OR COOLING TO MAINTAIN A ZONE CO2 LEVEL LESS THEN 800 PPM (ADJUSTABLE). WHEN CO2 LEVELS RISE ABOVE 750 PPM (ADJUSTABLE), THE ECONOMIZER SHALL MODULATE OPEN AS NEEDED TO MAINTAIN CO2 LEVELS BETWEEN 750-800 PPM (ADJUSTABLE). IF THE OUTSIDE AIR DAMPER REACHES ITS 'UPPER MINIMUM' POSITION AND CO2 LEVELS ARE STILL RISING, THE OUTSIDE AIR DAMPER SHALL MAINTAIN THIS 'UPPER MINIMUM' POSITION UNTIL ZONE CO2 LEVELS DROP BELOW 700 PPM (ADJUSTABLE). ONCE CO2 LEVELS HAVE DROPPED BELOW 700 PPM (ADJUSTABLE), THE ECONOMIZER SHALL RETURN TO THE POSITION AS DETERMINED BY THE CALL FOR HEATING OR COOLING.

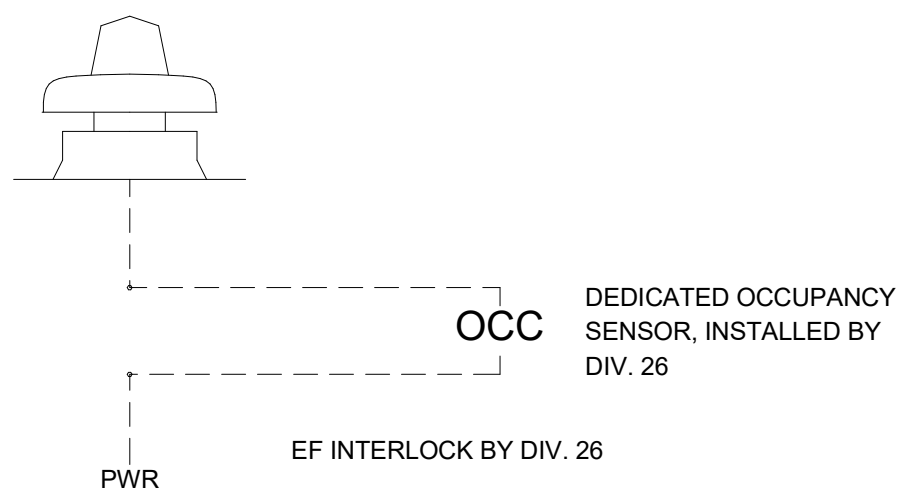
SHELTER IN PLACE OVERRIDE:
UPON ACTIVATION OF 'SHELTER IN PLACE' OVERRIDE AT EMS, ECONOMIZER DAMPER SHALL BE CLOSED TO OUTSIDE AIR BUT THE UNIT SHALL REMAIN IN OPERATION.

AC UNIT CONTROL DIAGRAM

SCALE : NONE (SINGLE ZONE VARIABLE AIR VOLUME w/ CO2 DEMAND CONTROL VENTILATION)



EF INTERLOCK



EF CONTROL W/ OCCUPANCY SENSOR

EF CONTROL DIAGRAMS

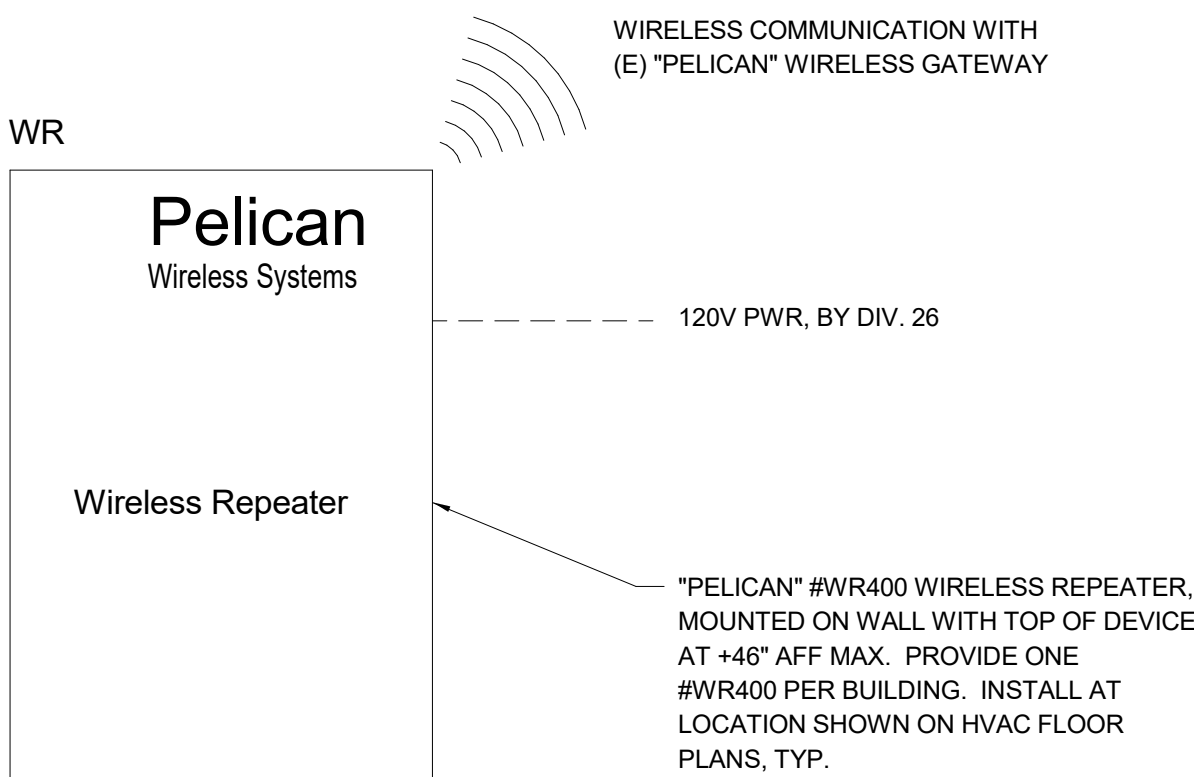
SCALE : NONE

CONTROLS LEGEND	
SYMBOL	DESCRIPTION
NT	*PELICAN* #TS200 NETWORK THERMOSTAT WITH OVERRIDE BUTTON
NTC	*PELICAN* #TS250 NETWORK THERMOSTAT WITH INTEGRAL CO2 SENSOR AND OVERRIDE BUTTON
FDD EVC	*PELICAN* PEARL FAULT DETECTION & DIAGNOSTICS ECONOMIZER/VENTILATION CONTROLLER
WR	*PELICAN* #WR400 EXTENDED RANGE WIRELESS REPEATER
PCM	*PELICAN* #PM5-230 WIRELESS POWER CONTROL MODULE
DS	*PELICAN* #PRX1 WIRELESS DOOR SENSOR
RT	*PELICAN* #RT1-AC WIRELESS REMOTE THERMOSTAT (TEMPERATURE ONLY MODE)
TAS	*PELICAN* #TA1 TEMPERATURE/ALARM SENSOR (INSTALLED NEXT TO OCCUPANCY SENSOR)
OCS	*LUTRON* #LOS-CDT-500R-WH (OR EQUAL) OCCUPANCY SENSOR
DCV	DEMAND CONTROLLED VENTILATION
ADR	AUTOMATED DEMAND RESPONSE
DTS	DISCHARGE TEMPERATURE SENSOR
OTS	OUTSIDE AIR TEMPERATURE SENSOR
DA	DAMPER ACTUATOR
ED	ECONOMIZER DAMPER
PEF	POWER EXHAUST FAN
VFD	VARIABLE FREQUENCY DRIVE
DPT	POWER EXHAUST DIFFERENTIAL PRESSURE TRANSDUCER
SPT	SPACE STATIC PRESSURE TUBING (INSTALLED BY TCC)
DSD	DUCT SMOKE DETECTOR BY DIV. 26
RIB	RELAY IN BOX
J-BOX	JUNCTION BOX
PWR	POWER WIRING BY DIV. 16
FAPWR	FIRE ALARM WIRING AND POWER WIRING BY DIV. 16
RA	RETURN AIR
OSA	OUTSIDE AIR
EA	EXHAUST AIR
SA	SUPPLY AIR
TCC	TEMPERATURE CONTROLS CONTRACTOR
EC	ELECTRICAL CONTRACTOR

WIRING BY TEMPERATURE CONTROL CONTRACTOR (TCC)

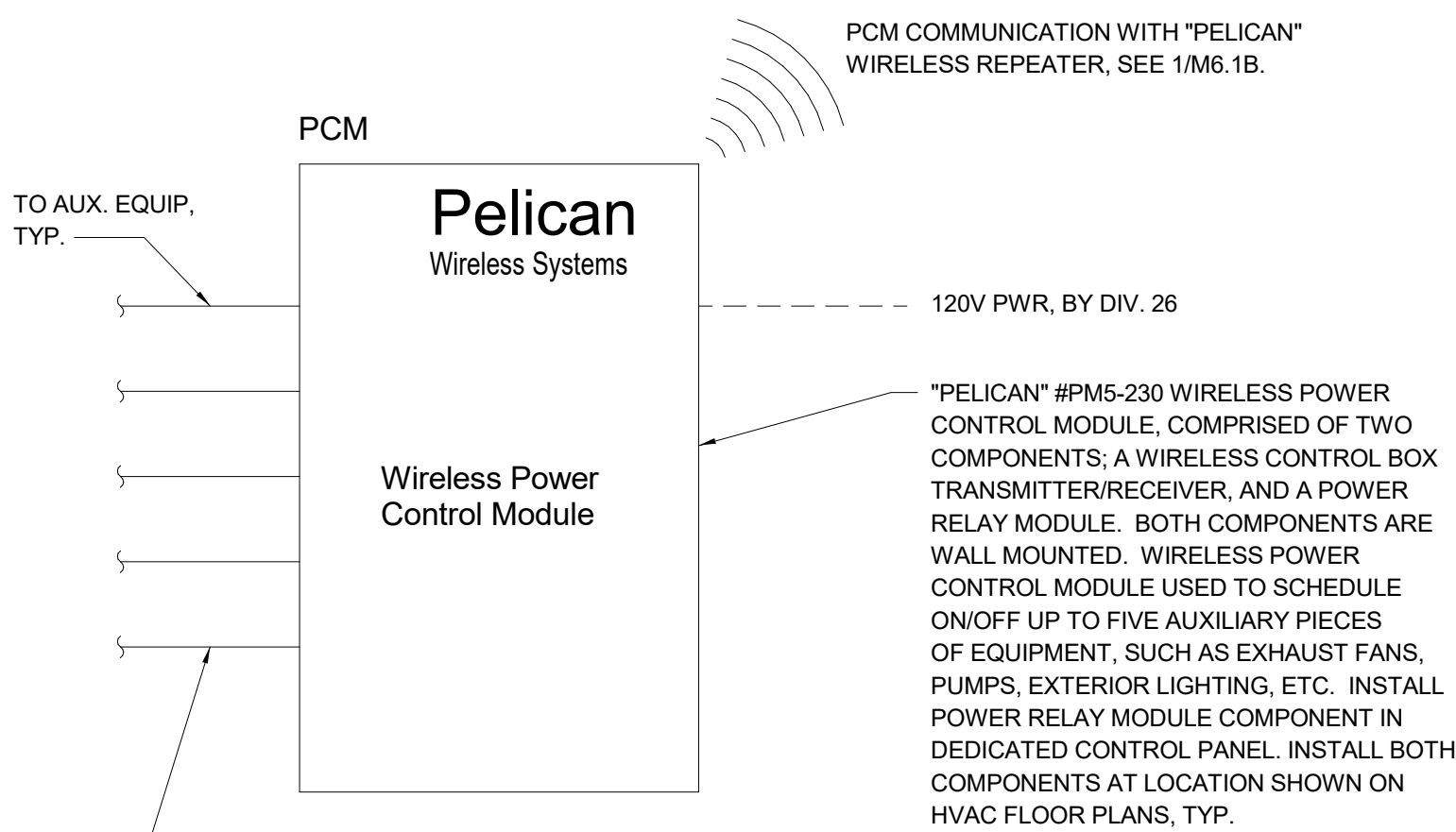
WIRING BY ELECTRICAL CONTRACTOR (EC)

THESE CONTROL DIAGRAMS ARE DIAGRAMMATIC AND DO NOT DEPICT ALL CONTROL WIRES, RELAYS OR COMPONENTS OF A COMPLETE SYSTEM. IT IS THE RESPONSIBILITY OF THE TEMPERATURE CONTROLS CONTRACTOR TO PROVIDE A COMPLETE AND FUNCTIONAL CONTROL SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
NOTE: ALL CONTROL WIRING SHALL BE RUN IN CONDUIT.



WIRELESS REPEATER

SCALE : NONE



WIRELESS POWER CONTROL MODULE

SCALE : NONE

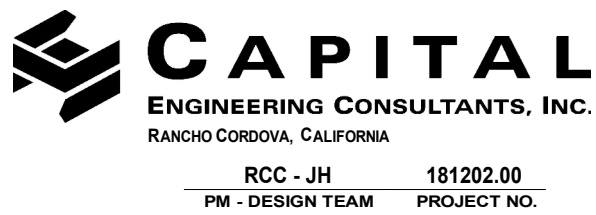


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MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III

Sheet Title
HVAC CONTROL DIAGRAMS

Client Project Number: Client Proj. #

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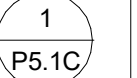
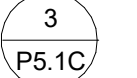
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ELECTRIC WATER HEATER SCHEDULE

UNIT	LOCATION	"BOOK" MODEL NO.	STORAGE CAPACITY	RECOVERY GALLONS @ 100 F RISE	MAX. TEMP SETTING	TOTAL WATTAGE	KW	VOLTAGE	AMPS	WEIGHT (FULL)	PIPING DETAIL	MOUNTING DETAIL	NOTES
 EWH 1	CUST 608	LCE30-2	30	43	120°F	3KW	3.0	120V/1□	35.0	400	 1 P5.1C	 3 P5.1C	SINGLE ELEMENT OPERATION

INSTANTANEOUS WATER HEATER SCHEDULE

UNIT	LOCATION	"CHRONOMITE" MODEL NO.	△ T TEMP. RISE AT FLOW RATE	MAX. TEMP SETTING	VOLTAGE WATTS	AMPS	DETAIL
 IWH 1	STAFF 610	E-46L/208	63°F 5 GPM	110°F	208V/1□ 4600	22	 1 P5.1C

EXPANSION TANK SCHEDULE

UNIT	LOCATION	"WATTS" MODEL NO.	TANK VOLUME GALLONS	MIN. ACCEPT. VOLUME	NOTES
 ET 1	CUST 415A	PLT-5	2.1	1.26	8"□ x 111", 6 LBS. SUPPORT W/QUICK STRAP #QS-5

PLUMBING GENERAL NOTES

- SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.
- COORDINATE LOCATION OF PIPING WITH OTHER TRADES ON THIS PROJECT.
- CONCEAL ALL PIPING IN WALL, FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
- PROVIDE BALL VALVES ON WATER PIPE BRANCHES TO EQUIPMENT AND PLUMBING FIXTURES. PROVIDE ACCESS PANELS WHEN LOCATED IN FURRED SPACES OR ABOVE NON-REMOVABLE CEILINGS. ALL VALVES SHALL BE FULL LINE SIZE.
- SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
- PROVIDE GAS SHUT-OFF VALVE, UNION AND DIRT LEG AT EACH GAS CONNECTION TO MECHANICAL EQUIPMENT.
- DOMESTIC HOT WATER HEATERS SHALL BE SEISMICALLY SECURED TO BUILDING STRUCTURE WITH ADEQUATE STRUCTURAL SUPPORT WITH ANCHOR BOLTS.
- PRIOR TO ANY SOLENOID VALVE, QUICK CLOSING VALVE, ETC. PROVIDE AND INSTALL SHOCK ABSORBER OF REQUIRED SIZE.
- PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL OF THE ENFORCING AGENCY.
- OFFSET VENTS THRU ROOF 10 FEET MINIMUM FROM AIR INTAKES AND 4 FEET FROM OUTSIDE WALLS.
- CONDENSATE DRAIN LINE CONNECTIONS TO MECHANICAL UNITS SHALL INCLUDE MINIMUM 4" DEEP "P" TRAP AND CLEANOUTS AT ALL OFFSETS.
- ALL MECHANICAL UNITS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE "M" SHEETS.
- OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
- FIELD VERIFY EXACT SIZES, LOCATIONS AND ELEVATIONS OF ALL PIPING CONNECTIONS, OTHER WORK, ETC., PRIOR TO TRENCHING OR INSTALLING OF ANY NEW WORK.
- BUILDING SEWER, WATER AND STORM DRAIN RUN APPROXIMATELY 5' MIN. FROM BUILDING. SECTION 22 10 00 APPLIES TO UTILITIES IN THE BUILDING, UNDER THE BUILDING AND TO 5' OUTSIDE THE BUILDING, BEYOND THE 5' OUTSIDE OF THE BUILDING SECTION 02700 GOVERNS.
- ALL FLOOR MOUNTED FIXTURES, CLEAN OUTS & FLOOR DRAINS TO BE FLUSH MOUNTED WITH 2% MAX. SLOPE.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

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

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

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

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

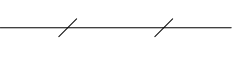



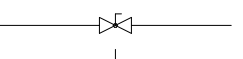
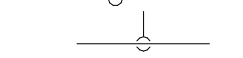
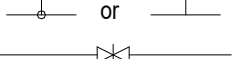
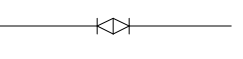

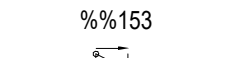
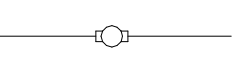
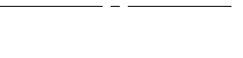

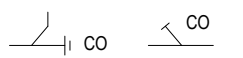
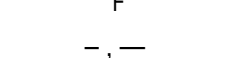
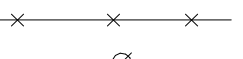
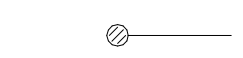

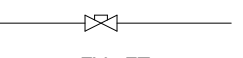
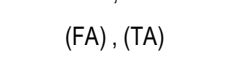
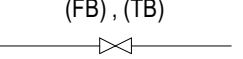
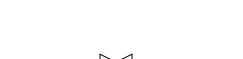



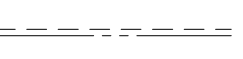



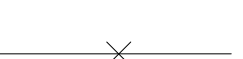
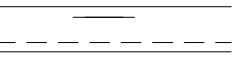



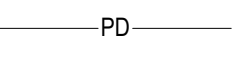



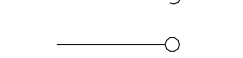
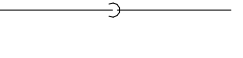

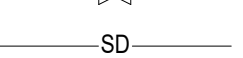
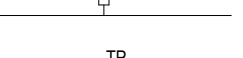


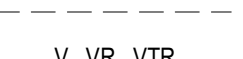
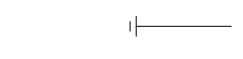


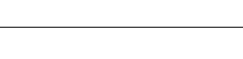

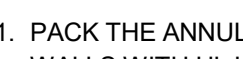
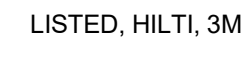
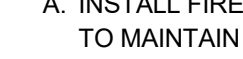

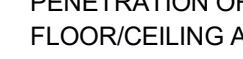
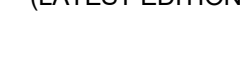

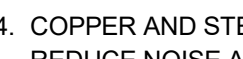

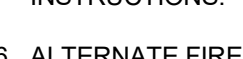
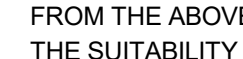
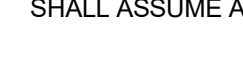





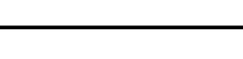

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL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

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP□ MD□ PP□ E□ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP□ MD□ PP□ E□ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13.

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
		TO BE ABANDONED
	ABC	ABOVE CEILING
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AF, BF	ABOVE FLOOR, BELOW FLOOR
	AD, AP	ACCESS DOOR, ACCESS PANEL
	BFG	BELOW FINISHED GRADE
	BV	BALL VALVE
		BRANCH - TOP CONNECTION
		BRANCH - BOTTOM CONNECTION
		BRANCH - SIDE CONNECTION
		BUTTERFLY VALVE
	CBV	CALIBRATED BALANCE VALVE
	COP	CAP ON END OF PIPE
	CB, RD	CATCH BASIN, ROOF DRAIN
		CENTER LINE
	CKV	CHECK VALVE
	CP	CIRCULATING PUMP
	CW	COLD WATER
	CWR	COLD WATER RISE
	CWD	COLD WATER DROP
	CD	CONDENSATE DRAIN LINE
	CO	CLEANOUT
	°F	DEGREES FAHRENHEIT
	□	DIAMETER, SQUARE (FEET)
	(E)	EXISTING TO BE REMOVED
	CO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	FS	FLOOR SINK
		FLOW IN DIRECTION OF ARROW
	FLV	FLOW LIMITING VALVE
	FV, FT	FLUSH VALVE, FLUSH TANK
	(FA), (TA)	FROM ABOVE, TO ABOVE
	(FB), (TB)	FROM BELOW, TO BELOW
	GV	GATE VALVE
	GPM	GALLONS PER MINUTE
	GLV	GLOBE VALVE
	CO	GRADE CLEANOUT
	HB	HOSE BIBB
	HW	HOT WATER PIPING
	HWR	HOT WATER PIPING RISE
	HWD	HOT WATER PIPING DROP
	HW	HOT WATER PIPING WITH HEAT TRACE TAPE
	HWRET	HOT WATER RETURN
	HWRET(R)	HOT WATER RETURN RISE
	HWRET(D)	HOT WATER RETURN DROP
	(N), (E)	NEW, EXISTING
	(NTS)	NOT TO SCALE
	OH	OVERHEAD
	AN	PIPE ANCHOR
		PIPE GUIDE
		PIPE IN SLEEVE
		PITCH DOWN IN DIRECTION OF FLOW
	POC	POINT OF CONNECTION, NEW TO EXISTING
	PG	PRESSURE GAUGE
	P & TRV	PRESSURE & TEMPERATURE RELIEF VALVE PIPING
	PRV	PRESSURE REDUCING VALVE
	PD	PUMP DISCHARGE LINE
	RV or P&TRV	RELIEF VALVE OR PRESSURE & TEMPERATURE RELIEF VALVE
	RET	RETURN
	RE, IE	RIM ELEVATION, INVERT ELEVATION
	(R), (D)	RISE, DROP
		RISER DOWN (ELBOW)
		RISER UP (ELBOW)
	R, D	RISE OR DROP
	RD	ROOF DRAIN
	S, W	SOIL, WASTE OR SANITARY SEWER BELOW FLOOR
	SD	SOLENOID VALVE WITH MOTOR ACTUATOR
	TP	STORM DRAIN
	TYP	TRAP PRIMER
		TRAP PRIMER PIPING
		TYPICAL
	VB	VALVE IN VALVE BOX (VALVE TYPE SYMBOL AS REQUIRED FOR VALVE TYPE USED)
	V	VENT PIPING
	V, VR, VTR	VENT, VENT RISER, VENT THRU ROOF
	WCO	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTER

FIRESTOPPING

- PACK THE ANNULAR SPACE BETWEEN THE PIPE SLEEVES AND THE PIPE THROUGH ALL FLOORS AND WALLS WITH UL LISTED FIRE STOP, AND SEALED AT THE ENDS. ALL PIPE PENETRATIONS SHALL BE UL LISTED, HILTI, 3M PRO-SET, OR EQUAL.
 - INSTALL FIRE CAULKING BEHIND MECHANICAL SERVICES INSTALLED WITHIN FIRE RATED WALLS, TO MAINTAIN CONTINUOUS RATING OF WALL CONSTRUCTION.
- PROVIDE SPECSEAL SYSTEMS UL FIRE RATED SLEEVE/COUPLING PENETRATORS FOR EACH PIPE PENETRATION OR FIXTURE OPENING PASSING THROUGH FLOORS, WALLS, PARTITIONS OR FLOOR/CEILING ASSEMBLIES. ALL PENETRATORS SHALL COMPLY WITH UL FIRE RESISTANCE DIRECTORY (LATEST EDITION), AND IN ACCORDANCE WITH CHAPTER 7, CBC REQUIREMENTS.
- SLEEVE PENETRATORS SHALL HAVE A BUILT IN ANCHOR RING FOR WATERPROOFING AND ANCHORING INTO CONCRETE POURS OR USE THE SPECIAL FIT CORED HOLE PENETRATOR FOR CORED HOLES.
- COPPER AND STEEL PIPING SHALL HAVE SPECSEAL PLUGS ON BOTH SIDES OF THE PENETRATOR TO REDUCE NOISE AND TO PROVIDE WATERPROOFING.
- ALL ABOVE SYSTEMS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- ALTERNATE FIRESTOPPING SYSTEMS ARE ACCEPTABLE IF APPROVED EQUAL. HOWEVER, ANY DEVIATION FROM THE ABOVE SPECIFICATION REQUIRES THE CONTRACTOR TO BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE PROPOSED PRODUCTS AND THEIR INTENDED USE, AND THE CONTRACTOR SHALL ASSUME ALL RISKS AND LIABILITIES WHATSOEVER IN CONNECTION THEREWITH.

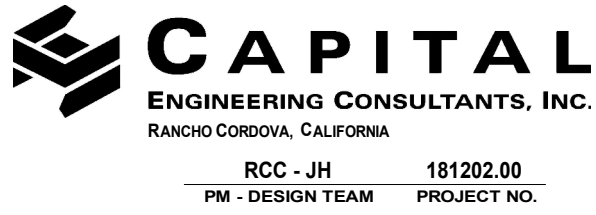


Revisions			
Delta	Date	Revisions	By

NOT FOR CONSTRUCTION

PROGRESS DRAWINGS INCREMENT III

ISSUE DATE: 11/3/20 BY: MH



RCC - JH 181202.00
PM - DESIGN TEAM PROJECT NO.

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Architect/Engineer Of Record:



HY Architects Project number: 5241

Facility
WALNUT CREEK SCHOOL DISTRICT
2425 WALNUT BOULEVARD, WALNUT CREEK, CA 94597

Project
MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

Sheet Title
PLUMBING LEGENDS, SCHEDULES, AND NOTES

Client Project Number: Client Proj. #

Scale: 12" = 1'-0"

Drawn By: Author

Checked By: Checker

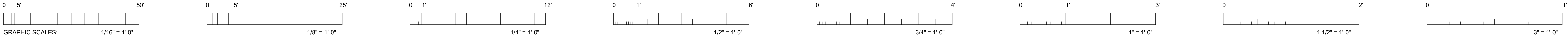
Issue Date: 11/3/20

Revit Version: 2019

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Sheet 64 of 95

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IF THIS SHEET IS NOT 30"x42", IT IS
A REDUCED PRINT SCALE ACCORDINGLY

PLUMBING FIXTURE SPECIFICATION & CONNECTION SCHEDULE

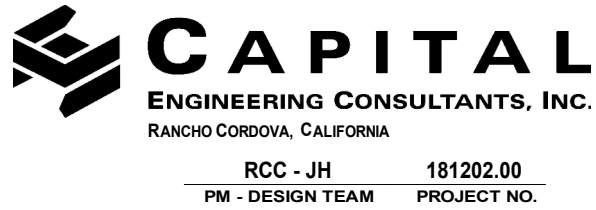
ADA	SYMBOL	FIXTURE	FIXTURE MANUFACTURER AND MODEL No.	FAUCET OR VALVE MANUFACTURER AND MODEL No.	TRIM MANUFACTURER AND MODEL No.	REMARKS	VENT	WASTE		COLD WATER		HOT WATER	
								BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
	WC-1	WATER CLOSET WALL MOUNTED FLUSH VALVE STD/ACCESSIBLE	"AMERICAN STANDARD" AFWALL NO. 3351.101, 1.28 GPF WALL HUNG, VITREOUS CHINA, ELONGATED, SIPHON JET ACTION, 1-1/2" TOP SPUD.	"SLOAN" ROYAL 111 HET 1.28, ADA COMPLIANT, 1.28 GPF (MANUAL)	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1965SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR. CARRIER: "J.R. SMITH" 100 OR 200 SERIES OR "ZURN" Z1203 AND Z1204 SERIES PROVIDE REAR SUPPORT LUG AND ANCHOR FOOT ASSEMBLY.	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	--	--
	UR-1	URINAL WALL MOUNTED FLUSH VALVE ACCESSIBLE	"AMERICAN STANDARD" WASHBROOK NO. 6590.001, 0.125 GPF, WALL HUNG, VITREOUS CHINA, SIPHON JET ACTION. 3/4" TOP SPUD, 2" THREADED OUTLET.	"SLOAN" ROYAL 186-0.125, 0.125 GPF (MANUAL)	CARRIER: "J.R. SMITH" 637 SERIES OR "ZURN" Z1222	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS.	1-1/2"	2"	2"	1"	3/4"	--	--
	L-1	LAVATORY WALL MOUNTED HOT AND COLD WATER STD/ACCESSIBLE	"AMERICAN STANDARD" LUCERNE NO. 0355.012, WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 20" x 18" D SHAPED BOWL.	"CHICAGO" 3600-E2805AB FAUCET, PUSH LEVER WITH AERATOR WITH 0.5 GPM FLOW RATE. WITH VANDAL RESISTANT ECONO-FLO SPRAY OUTLET. WITH IPS CONNECTIONS, ADA COMPLIANT. SET MAXIMUM WATER TEMPERATURE STOP TO RESTRICT WATER TEMPERATURE TO 110° F.	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.016, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. CARRIER: "J.R. SMITH" 0700 OR ZURN Z1231	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	L-2	LAVATORY WALL MOUNTED COLD WATER ONLY STD/ACCESSIBLE	"AMERICAN STANDARD" LUCERNE NO. 0355.012, WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 20" x 18" D SHAPED BOWL.	"CHICAGO" 857-EE2805-66SPSHABCP "TAPERED HANDLE FAUCET, PUSH-BUTTON TYPE. MODEL E2805 VANDAL RESISTANT ECONO-FLO SPRAY OUTLET, 0.5 GPM FLOW RESTRICTOR. ADA COMPLIANT	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1-1/2"	2"	1-1/2"	3/4"	1/2"	-	-
	S-1	SINK COUNTER MOUNTED COLD WATER ONLY W/BUBBLER	"JUST" CRAF-ADA-1931-16-GR-VRL STAINLESS STEEL, 19" FRONT TO BACK, 31" WIDE x 6-1/2" DEPTH OVERALL, 18 GAUGE STAINLESS STEEL, SIDE LEDGES WITH SELF- RIM. PROVIDE REAR DRAIN LOCATION, VANDAL RESISTANT BACKING PLATE AT BUBBLER AND FAUCET FOR VANDAL RESISTANT PINS. BACKING PLATE SHALL BE 14 GAUGE SS FORMED AS A CHANNEL.	"CHICAGO" ECAST MODEL 350-E35ABCP(VAV/VP) GOOSENECK FAUCET, "HAWS" 5054LF BUBBLER, VANDAL RESISTANT. PROVIDE VANDAL PROOF PIN (VPP) IN BUBBLER AND FAUCET, ARRANGE TO MATE WITH SLOTS IN SINK. PROVIDE 1.5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR.	"JUST" J-ADA-35-SSF-VR DRAIN SYSTEM. INSTALL P-TRAP FLUSH TO WALL. "JUST" JTS-150 P-TRAP, SWIVEL STYLE WITH CLEAN OUT	ARRANGE FINAL INSTALLATION OF SINK SUCH THAT THE BUBBLER WILL BE WITHIN 5" OF THE EDGE OF THE COUNTERTOP. INSTALL FAUCET IN CENTER OF SIDE SPLASH. PROVIDE SLOT FOR BUBBLER AT 15° ANGLE FROM FRONT OF THE SINK, AND INSTALL THE BUBBLER AT 15° ANGLE.	1-1/2"	2"	1-1/2"	3/4"	1/2"	-	-
	S-2	SINK COUNTER MOUNTED COLD WATER ONLY	"JUST" SLX-1621-A-GR, STAINLESS STEEL, 18-1/4" FRONT TO BACK, 210-114" WIDE x 10-1/2" DEPTH OVERALL, 18 GAUGE STAINLESS STEEL, SIDE LEDGES WITH SELF-RIM. PROVIDE REAR DRAIN LOCATION, VANDAL RESISTANT BACKING PLATE AT BUBBLER AND FAUCET FOR VANDAL RESISTANT PINS. BACKING PLATE SHALL BE 14 GAUGE SS FORMED AS A CHANNEL.	"CHICAGO" ECAST MODEL 350-E35ABCP(VAV/VP) GOOSENECK FAUCET, "HAWS" 5054LF BUBBLER, VANDAL RESISTANT. PROVIDE VANDAL PROOF PIN (VPP) IN BUBBLER AND FAUCET, ARRANGE TO MATE WITH SLOTS IN SINK. PROVIDE 1.5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR.	"JUST" J-ADA-35-SSF-VR DRAIN SYSTEM. INSTALL P-TRAP FLUSH TO WALL. "JUST" JTS-150 P-TRAP, SWIVEL STYLE WITH CLEAN OUT	ARRANGE FINAL INSTALLATION OF SINK SUCH THAT THE BUBBLER WILL BE WITHIN 5" OF THE EDGE OF THE COUNTERTOP. INSTALL FAUCET IN CENTER OF SIDE SPLASH.	1-1/2"	2"	1-1/2"	3/4"	1/2"	-	-
	DF-1	DRINKING FOUNTAIN WALL MOUNTED STD/ACCESSIBLE DUAL HEIGHT W/BOTTLE FILLER	"HAWS" 1117L, STAINLESS STEEL DUAL HEIGHT, WALL MOUNTED STAINLESS STEEL BACK PANEL MODEL 6700R, WITH MODEL 1920 BOTTLE FILLER	INTEGRAL	WITH P-TRAP	SURPORT SYSTEM. MODEL 6717 MOUNTING PLATE AND 6800 SUPPORT CARRIER. PROVIDE MANUFACTURER'S INTERNAL SUPPORT SYSTEM. WHERE INSTALLED ON CONCRETE OR CMU WALL, PROVIDE TWO MODEL 6700 MOUNTING PLATES AND INSTALL WITH ONE PLATE ON EACH SIDE OF WALL. SET AT HEIGHT INDICATED ON ARCH DRAWINGS.	1-1/2"	2"	1-1/2"	3/4"	1/2"	-	-
	SS-1	SERVICE SINK FLOOR MOUNTED HOT AND COLD WATER JANITORS	"ACORN" TNC-24-TF2, 24" x 24" x 12" FLOOR MOUNTED, TERRAZZO, WITH STAINLESS STEEL CAP. UNIT SHALL INCLUDE MODEL KH36 36" LONG HOSE WITH WALL HANGER AND MODEL KM1 MOP HANGER WITH 3 GRIPS ON A STAINLESS STEEL BRACKET.	"T&S" MODEL B-0665-BSTP WALL MOUNTED POLISHED CHROME FAUCET WITH INLET STOPS, SPRING CHECK CARTRIDGES, VACUUM BREAKER, LEVER HANDLES, ADJUSTABLE TOP BRACE AND 3/4" MALE THREADED HOSE OUTLET.		AS PART OF ROUGH-IN FOR FAUCET, PROVIDE SUITABLE BLOCKING FOR TOP BRACE. PROVIDE CAP WITH FLANGE ON SIDES ADJACENT TO WALLS.	2"	3"	3"	3/4"	3/4"	3/4"	3/4"
	SS-2	SERVICE SINK WALL MOUNTED HOT AND COLD WATER JANITORS	"KOHLER" BANNON K-6714, 22-1/4" x 18-1/4" x 12" DEEP WALL MOUNTED WITH MODEL 6451S STAINLESS STEEL CAP ON ALL FOUR TOP SURFACES.	"KHOHLER" KNOXFORD K-8907 DOUBLE HANDLE POLISHED CHROME FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE AND 3/4" MALE THREADED HOSE OUTLET.		AS PART OF ROUGH-IN FOR FAUCET, PROVIDE SUITABLE BLOCKING FOR TOP BRACE. PROVIDE CAP WITH FLANGE ON SIDES ADJACENT TO WALLS.	2"	3"	3"	3/4"	3/4"	--	--
	SI	SOLIDS INTERCEPTOR	"ZURN" Z1180", FLOOR MOUNTED				-	-	2"	-	-	-	-
	HB	HOSE BIBB	INTERIOR WALL MOUNTED - "WOODFORD" B24P(BR), 3/4", NON-REMOVABLE VACUUM BREAKER, ROUGH BRASS FINISH. LOOSE KEY HANDLE, FLUSH MOUNTED LOCKING BOX	WITH INTEGRAL VACUUM BREAKER PROTECTED, CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND REMOVABLE LOOSE KEY HANDLE.			-	-	-	3/4"	3/4"	-	-
	TP	TRAP PRIMER	MIFAB "M-500" SERIES, PRECISION PLUMBING PRODUCTS				-	-	-	1/2"	1/2"	-	-
	FD	FLOOR DRAIN	"ZURN" FD-2321 NO HUB, FOOT TRAFFIC AND LIGHT CART APPLICATION, CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE HEAD AND 5" DIAMETER NICKLE BRONZE TOP W/ 1/2" TRAP PRIMER CONNECTION, TYPE "B" STRAINER				2"	2"	2"	-	-	-	-
<p>GENERAL NOTES:</p> <p>1. WATER SUPPLIES AND STOPS</p> <p>A. PROVIDE 85 PERCENT IPS RED BRASS PIPE, SECURELY ANCHORED TO BUILDING CONSTRUCTION. FOR EACH CONNECTION TO FAUCETS, STOPS, HOSE BIBBS, ETC, EACH FIXTURE, EXCEPT HOSE BIBBS, SHALL HAVE A STOP VALVE INSTALLED ON WATER SUPPLY LINES TO PERMIT REPAIRS WITHOUT SHUTTING OFF WATER MAINS.</p> <p>B. PROVIDE ALL WATER SUPPLIES TO FIXTURES WITH COMPRESSION SHUT-OFF STOPS WITH IPS INLETS WITH THREADED BRASS NIPPLES AT PIPE CONNECTION AND LOCK SHIELD LOOSE KEY. PROVIDE COMBINATION FIXTURES WITH COMPRESSION STOP AND IPS INLET ON EACH WATER SUPPLY FITTING. PROVIDE LOOSE KEY HANDLE FOR EACH STOP.</p> <p>C. PROVIDE 1/2 INCH RISER TUBES WITH REDUCING COUPLING FOR ALL FIXTURES, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION SECTION, 15440 OR 22 40 00.</p> <p>2. PIPE, PLUMBING FITTINGS, FIXTURES, SOLDER AND FLUX SHALL COMPLY WITH LEAD FREE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH NSF 61, ANNEX G, OR PROVIDE OTHER EVIDENCE OF COMPLIANCE WITH THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCT SUBMITTAL INFORMATION PROVING COMPLIANCE WITH LEAD FREE REQUIREMENTS.</p>													



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HY Architects Project number: 5241

Facility
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2425 WALNUT BOULEVARD, WALNUT
CREEK, CA 94597

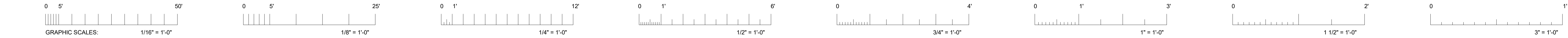
Project
MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III

Sheet Title
PLUMBING FIXTURE
SPECIFICATION AND
CONNECTION SCHEDULE

Client Project Number: Client Proj. #

Scale: 12" = 1'-0"
Drawn By: Author
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Sheet
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Sheet 65 of 95



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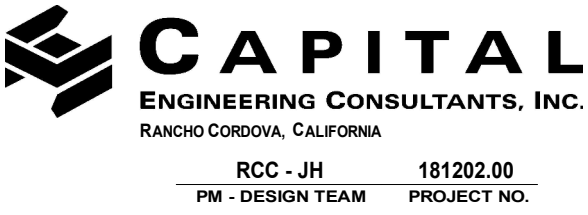
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Project
**MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III**

Sheet Title
**BUILDING 600 - PLUMBING
DEMOLITION PLAN**

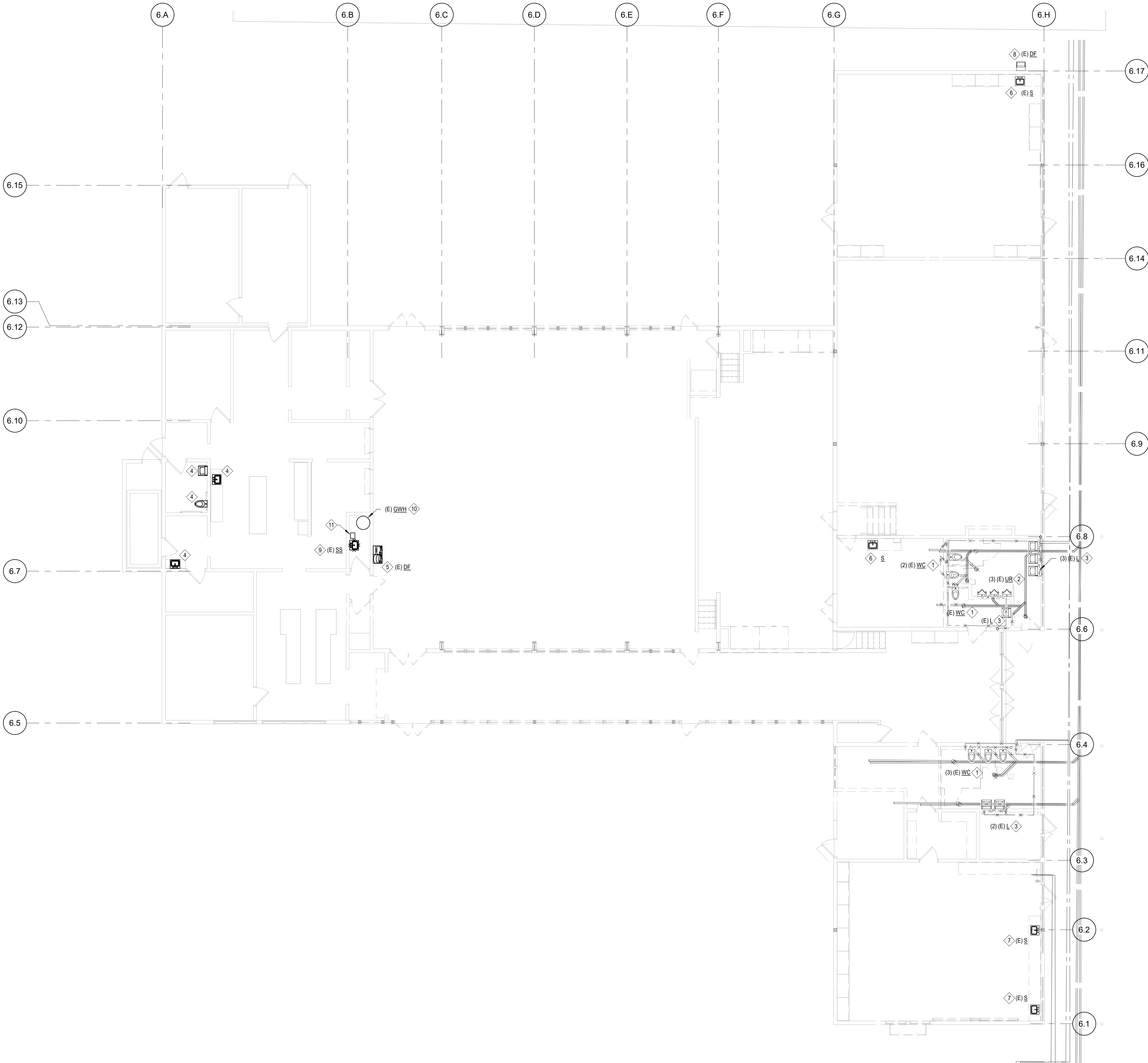
Client Project Number:	Client Proj. #
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Drawn By: Author	P1.6
Checked By: Checker	
Issue Date: 11/3/20	
Revit Version: 2019	Sheet 66 of 95

SHEET NOTES:

1. PLUMBING DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES. RECORD DRAWINGS OF EXISTING PLUMBING LINES WERE NOT AVAILABLE FOR MANY OF THE AREAS. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF CONNECTING NEW FIXTURES TO EXISTING FIXTURE UTILITIES. FIELD INVESTIGATION OF EXISTING CONDITIONS, SELECTIVE DEMOLITION, AND CONCEALED UTILITY LOCATING REVEALED BY DEMOLITION. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERABLE PLUMBING SYSTEM WHICH COMPLIES WITH THE SPECIFICATIONS AND THE 2018 CPC. CONTRACTOR SHALL PERFORM INVESTIGATION OF EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW FIXTURES AS SHOWN.
2. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS, SIZES, ROUTING, AND INVERTS OF ALL PIPING PRIOR TO CONSTRUCTION.
3. ALL PIPING SHALL BE INSTALLED BEHIND FINISHED SURFACES EXCEPT AS NOTED OTHERWISE. SAW CUT AND REMOVE PORTIONS OF ARCHITECTURAL FINISHES AS REQUIRED TO RUN NEW PIPING OR CAP EXISTING PIPING BEHIND ARCHITECTURAL FINISHES. PATCH FINISHES TO MATCH EXISTING ADJACENT SURFACES.
4. SEE SHEET P0.1 FOR ADDITIONAL NOTES.

KEYNOTES:

1. EXISTING WATER CLOSET TO BE REMOVED AND REPLACED WITH NEW FIXTURE. ADJUST EXISTING PIPING TO ACCOMMODATE FOR NEW ROUGH-IN REQUIREMENTS OF REPLACEMENT.
2. EXISTING URINAL TO BE REMOVED AND REPLACED WITH NEW FIXTURE. ADJUST EXISTING PIPING TO ACCOMMODATE FOR NEW ROUGH-IN REQUIREMENTS OF REPLACEMENT.
3. EXISTING LAVATORY TO BE REMOVED AND REPLACED WITH NEW FIXTURE. ADJUST EXISTING PIPING TO ACCOMMODATE FOR NEW ROUGH-IN REQUIREMENTS OF REPLACEMENT.
4. EXISTING FIXTURE TO REMAIN.
5. EXISTING DRINKING FOUNTAIN TO REMOVED AND REUSED. PREPARE EXISTING PIPING TO ACCOMMODATE FOR NEW ROUGH-IN REQUIREMENTS.
6. EXISTING SINK TO BE REMOVED. CAP PIPING ABOVE, BEHIND, OR BELOW ARCHITECTURAL FINISHES.
7. EXISTING SINK TO BE REMOVED AND REPLACED WITH NEW FIXTURE. ADJUST EXISTING PIPING TO ACCOMMODATE FOR NEW ROUGH-IN REQUIREMENTS OF REPLACEMENT.
8. EXISTING DRINKING FOUNTAIN TO BE REMOVED. CAP PIPING ABOVE, BEHIND, OR BELOW ARCHITECTURAL FINISHES.
9. EXISTING SERVICE SINK TO BE REMOVED AND REPLACED WITH NEW FIXTURE. ADJUST EXISTING PIPING TO ACCOMMODATE FOR NEW ROUGH-IN REQUIREMENTS OF REPLACEMENT.
10. EXISTING GAS WATER HEATER TO BE REMOVED AND REUSED. PREPARE EXISTING PIPING TO ACCOMMODATE FOR NEW ROUGH-IN REQUIREMENTS.
11. EXISTING "HATCO" BOOSTER WATER HEATER TO BE REMOVED AND REUSED. PREPARE EXISTING PIPING TO ACCOMMODATE FOR NEW ROUGH-IN REQUIREMENTS.



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P1.6

BUILDING 600 - PLUMBING DEMOLITION PLAN

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

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SHEET NOTES:

1. PLUMBING DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES. RECORD DRAWINGS OF EXISTING PLUMBING LINES WERE NOT AVAILABLE FOR MANY OF THE AREAS. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF CONNECTING NEW FIXTURES TO EXISTING FIXTURE UTILITIES. FIELD INVESTIGATION OF EXISTING CONDITIONS, SELECTIVE DEMOLITION, AND CONCEALED UTILITY LOCATING REVEALED BY DEMOLITION, THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERABLE PLUMBING SYSTEM WHICH COMPLIES WITH THE SPECIFICATIONS AND THE 2016 UPC. CONTRACTOR SHALL PERFORM INVESTIGATION OF EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW FIXTURES AS SHOWN.
2. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS, SIZES, ROUTING, AND INVERTS OF ALL PIPING PRIOR TO CONSTRUCTION.
3. ALL PIPING SHALL BE INSTALLED BEHIND FINISHED SURFACES EXCEPT AS NOTED OTHERWISE. SAW CUT AND REMOVE PORTIONS OF ARCHITECTURAL FINISHES AS REQUIRED TO RUN NEW PIPING OR CAP EXISTING PIPING BEHIND ARCHITECTURAL FINISHES. PATCH FINISHES TO MATCH EXISTING ADJACENT SURFACES.
4. SAWCUT AND REMOVE (E) CONCRETE AS REQUIRED FOR CONNECTION OF NEW SERVICES TO EXISTING SERVICES. REPLACE CONCRETE TO MATCH EXISTING. PROVIDE ALL HARDWARE MATERIALS, AND FITTINGS AS REQUIRED TO CONNECT TO EXISTING SYSTEMS. ALL PIPING SHALL BE BEHIND FINISHED SURFACES.
5. SEE SHEET P0.1 FOR ADDITIONAL NOTES.

KEYNOTES:

1. NEW SERVICE SINK TO BE CONNECTED TO EXISTING DOMESTIC HOT & COLD WATER, WASTE AND VENT SYSTEMS. EXTEND EXISTING PLUMBING SERVICES AS REQUIRED TO MAKE NEW CONNECTIONS. ALL PIPING SHALL BE BEHIND ARCHITECTURAL FINISHES.
2. EXISTING DRINKING FOUNTAIN TO BE REINSTALLED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. EXTEND EXISTING PLUMBING SERVICES AS REQUIRED TO MAKE NEW CONNECTIONS. ALL PIPING SHALL BE BEHIND ARCHITECTURAL FINISHES.
3. EXISTING GAS WATER HEATER TO BE RECONNECTED TO DOMESTIC COLD WATER, HOT WATER, HOT WATER RETURN, AND GAS SYSTEMS. PROVIDE NEW LINE SIZE GAS SHUTOFF VALVE, UNION, AND 6" DIRT LEG. FIELD VERIFY SIZES. EXTEND EXISTING PLUMBING SERVICES AS REQUIRED TO MAKE NEW CONNECTIONS.
4. EXISTING "HATCO" WATER BOOSTER HEATER TO BE RECONNECTED TO DOMESTIC COLD & HOT WATER SYSTEMS. EXTEND EXISTING PLUMBING SERVICES AS REQUIRED TO MAKE NEW CONNECTIONS.

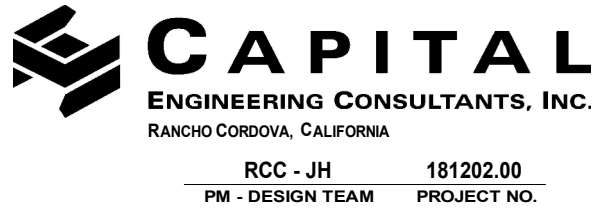


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Project
MODERNIZATION AND RECONFIGURATION PROJECT
INCREMENT III

Sheet Title
BUILDING 600 - PLUMBING FLOOR PLAN

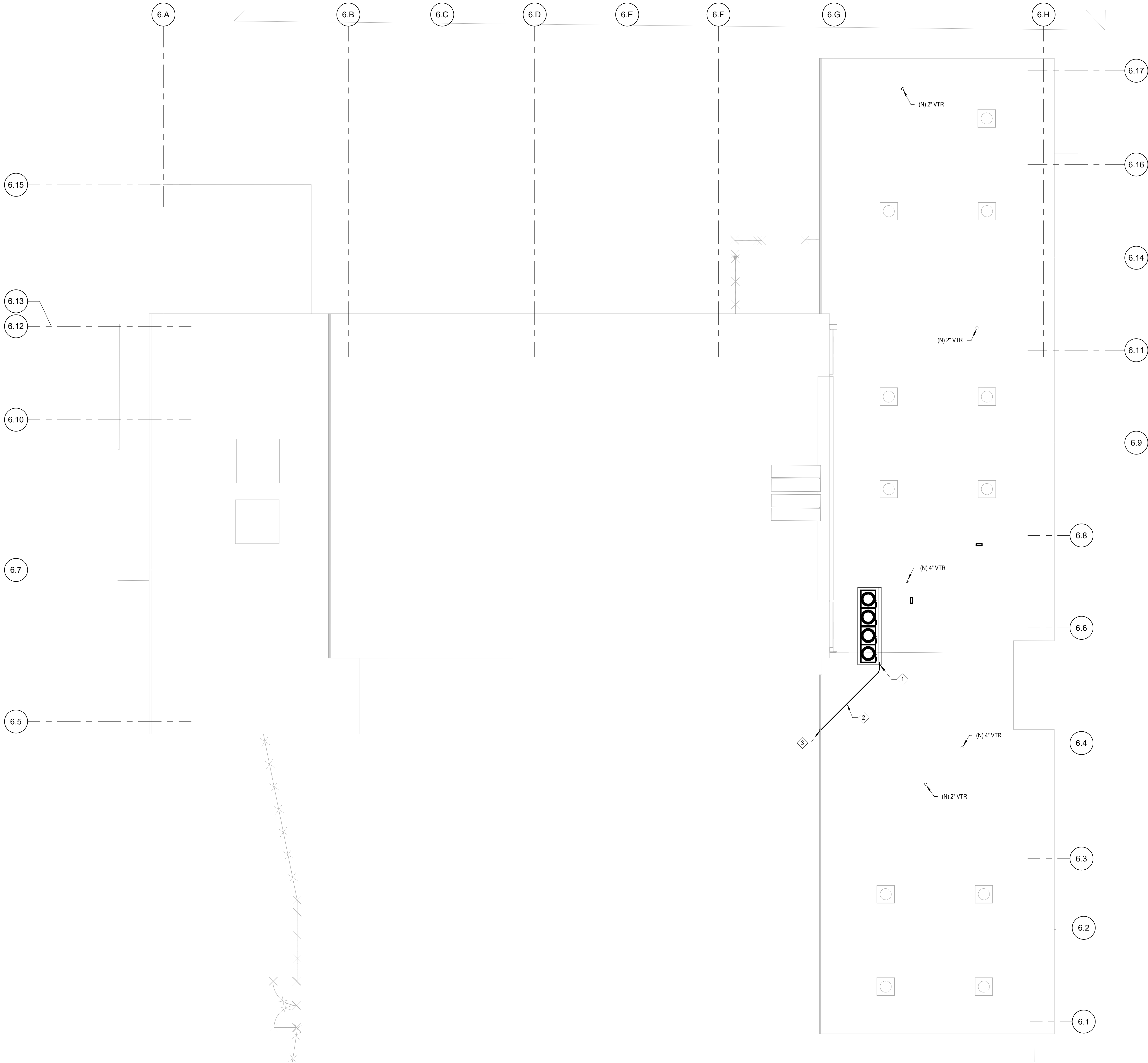
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SHEET NOTES:

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2. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS, SIZES, ROUTING, AND INVERTS OF ALL PIPING PRIOR TO CONSTRUCTION.
3. SEE SHEET P0.1 FOR ADDITIONAL NOTES.

KEYNOTES:

- ① RELOCATED OUTDOOR HEAT PUMP. CONNECT CONDENSATE DRAIN PIPE TO GUTTER SYSTEM. REFER TO 5MS.1C FOR CONTINUATION.
- ② CONDENSATE DRAIN PIPE ON ROOF. SEE DETAIL 6PS.1C.
- ③ 2\" CONDENSATE DRAIN PIPE, ROUTE TO AND TERMINATE AT GUTTER WITH TURNED DOWN ELL WHILE MAINTAINING MINIMUM 1\" AIR GAP.

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P3.6

BUILDING 600 - PLUMBING FLOOR PLAN

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



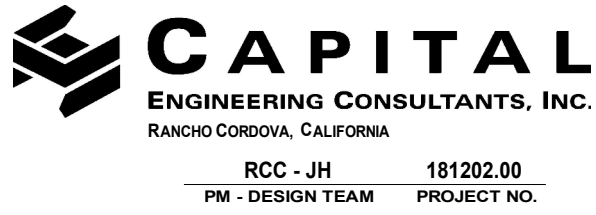
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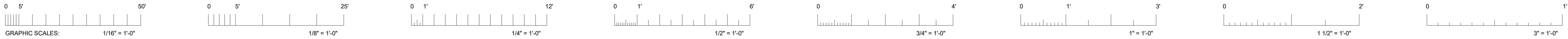
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Project
MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

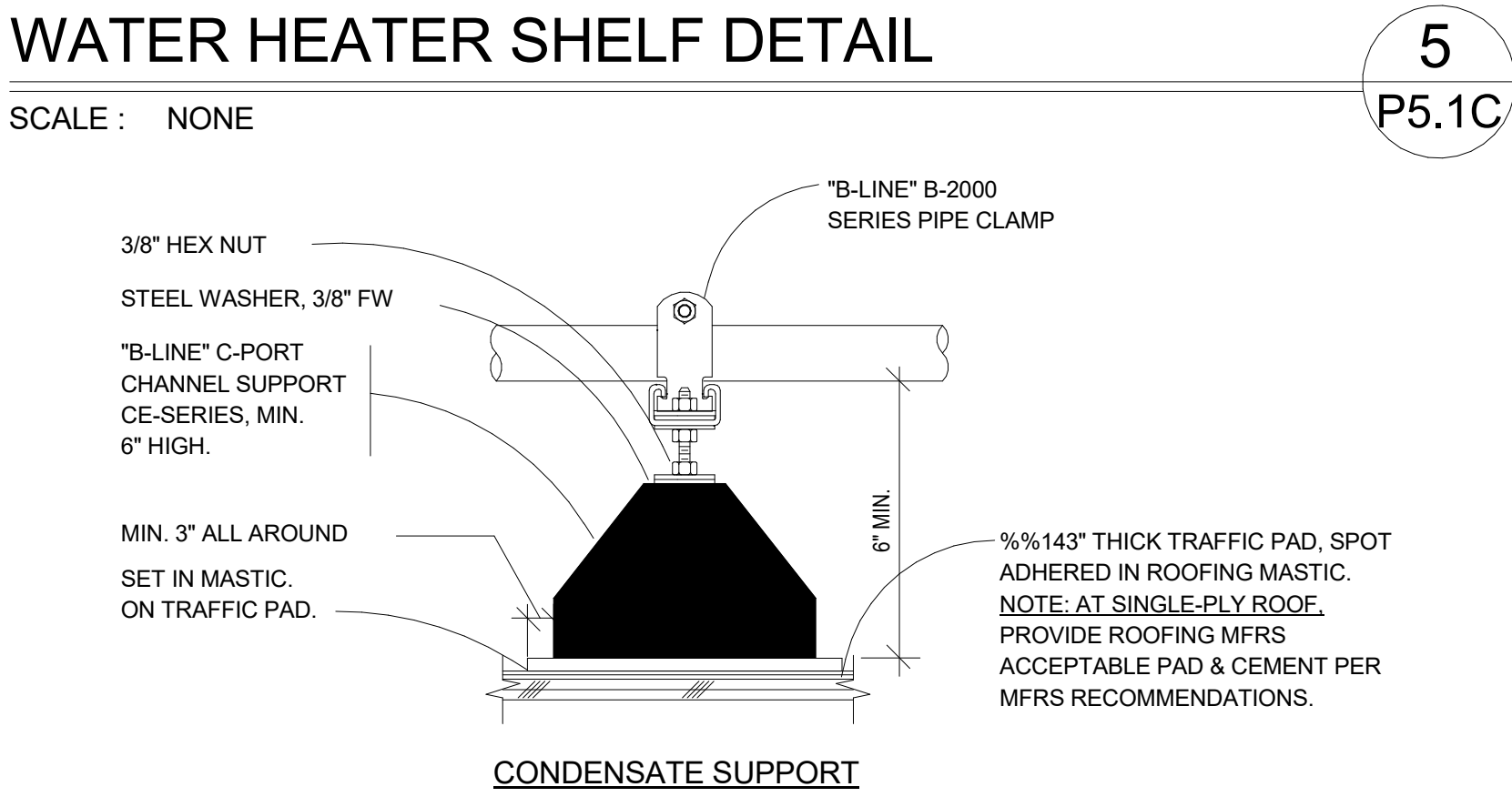
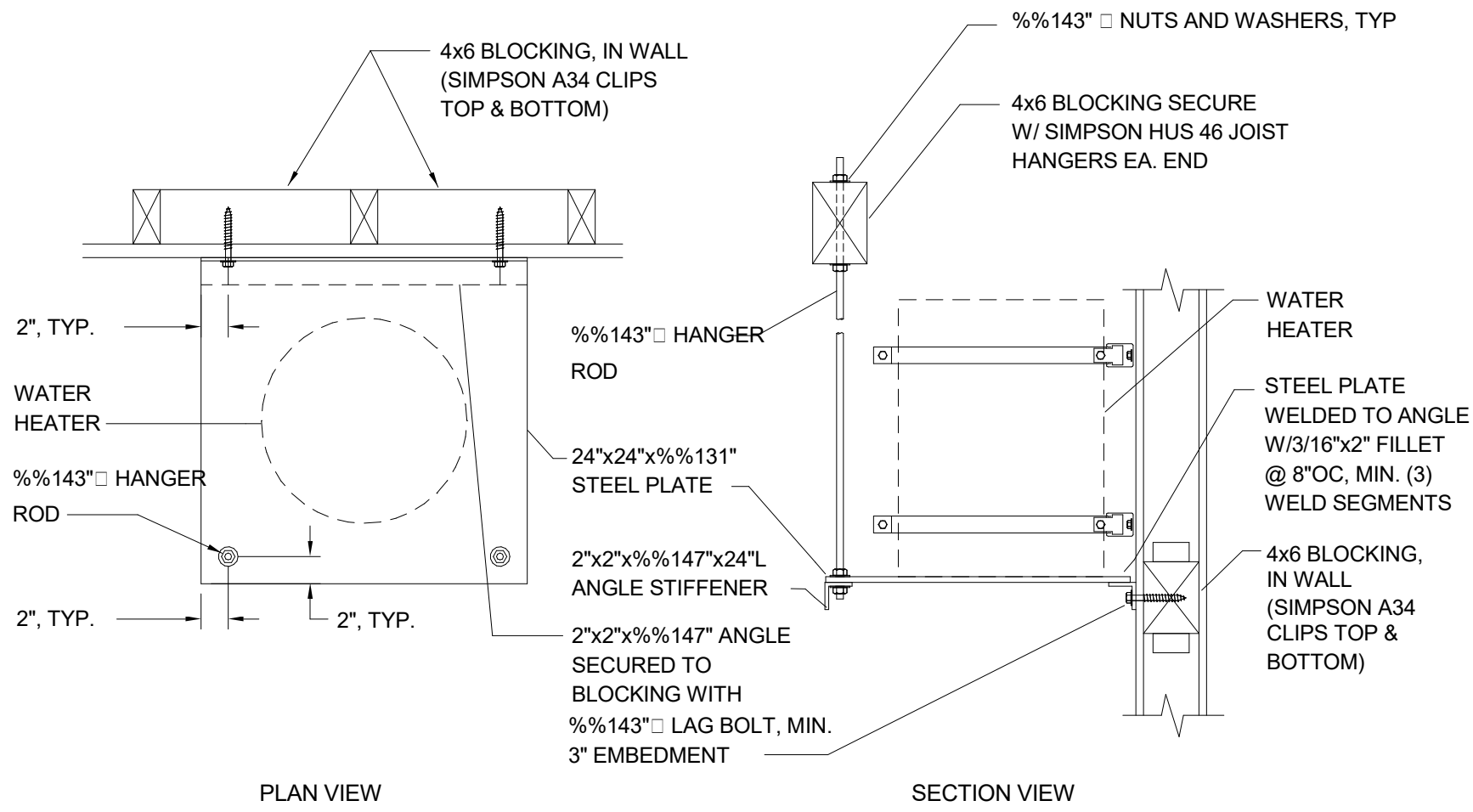
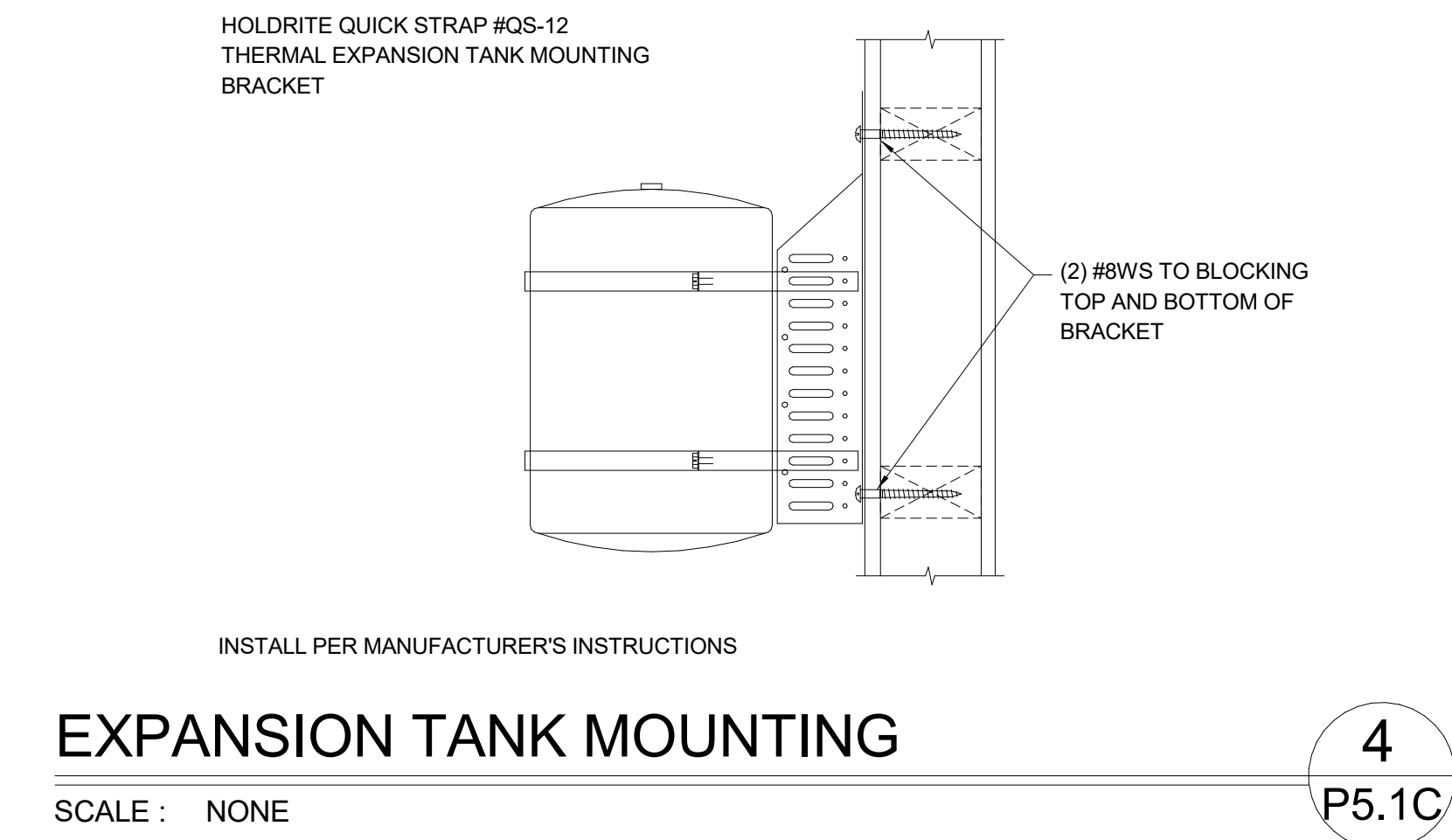
Sheet Title
BUILDING 600 PLUMBING ROOF PLAN

Client Project Number:		Client Proj. #
Scale:	1/8" = 1'-0"	P3.6
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Issue Date:	11/3/20	
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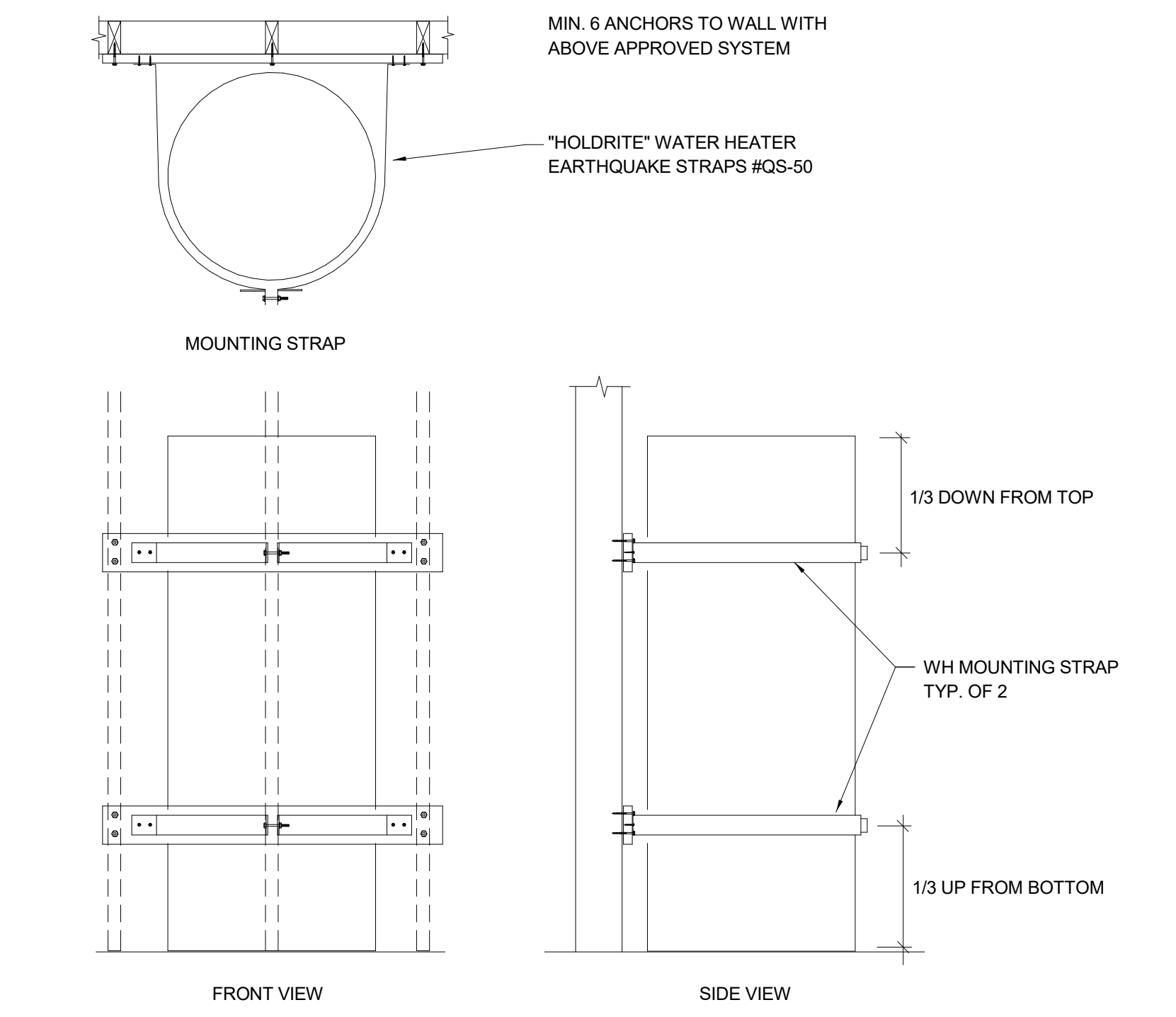
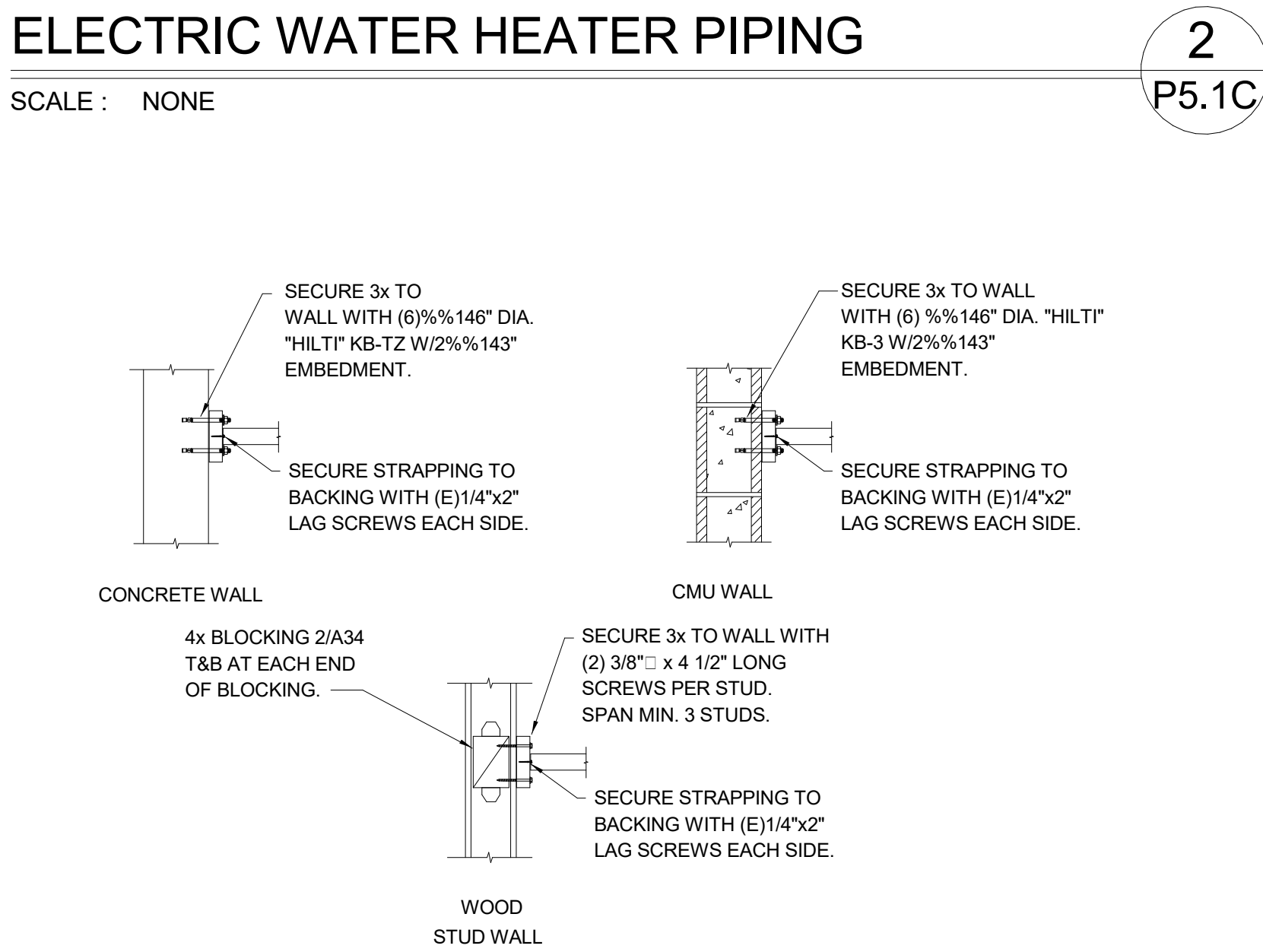
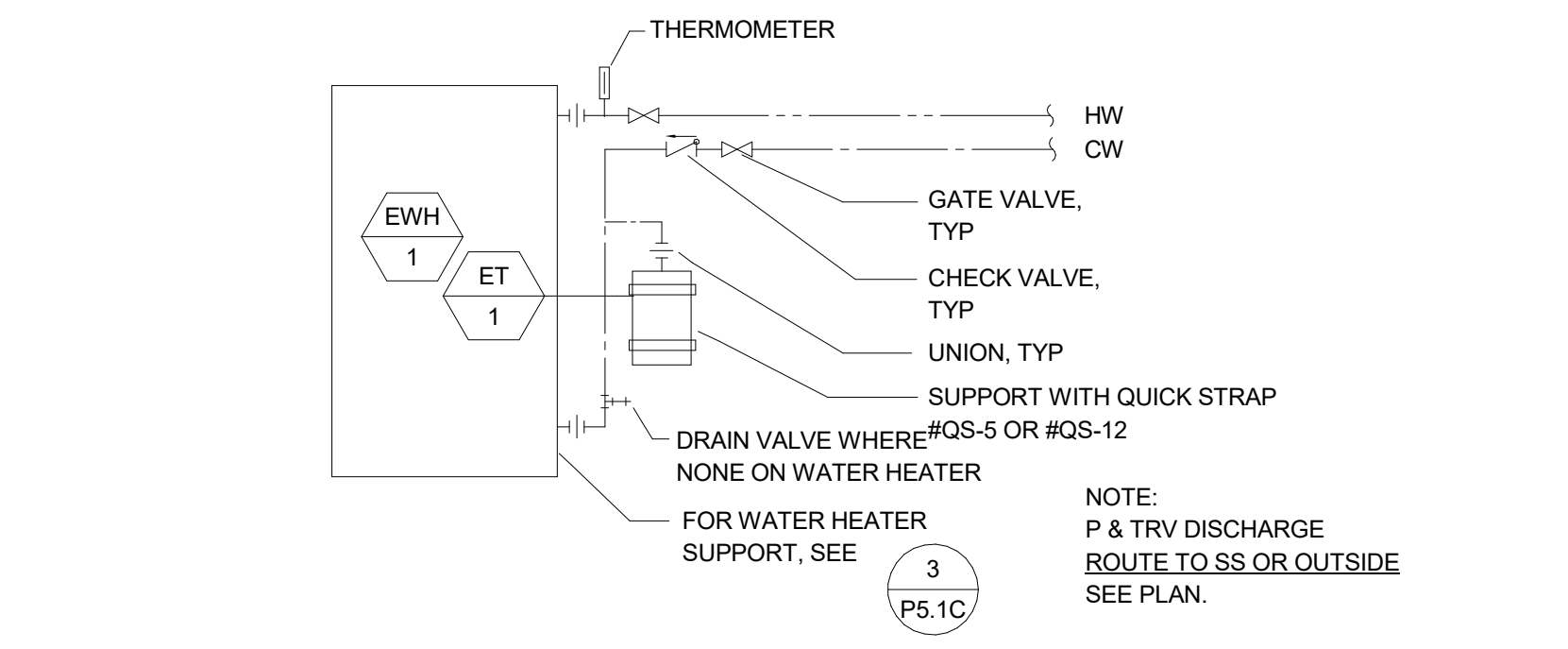
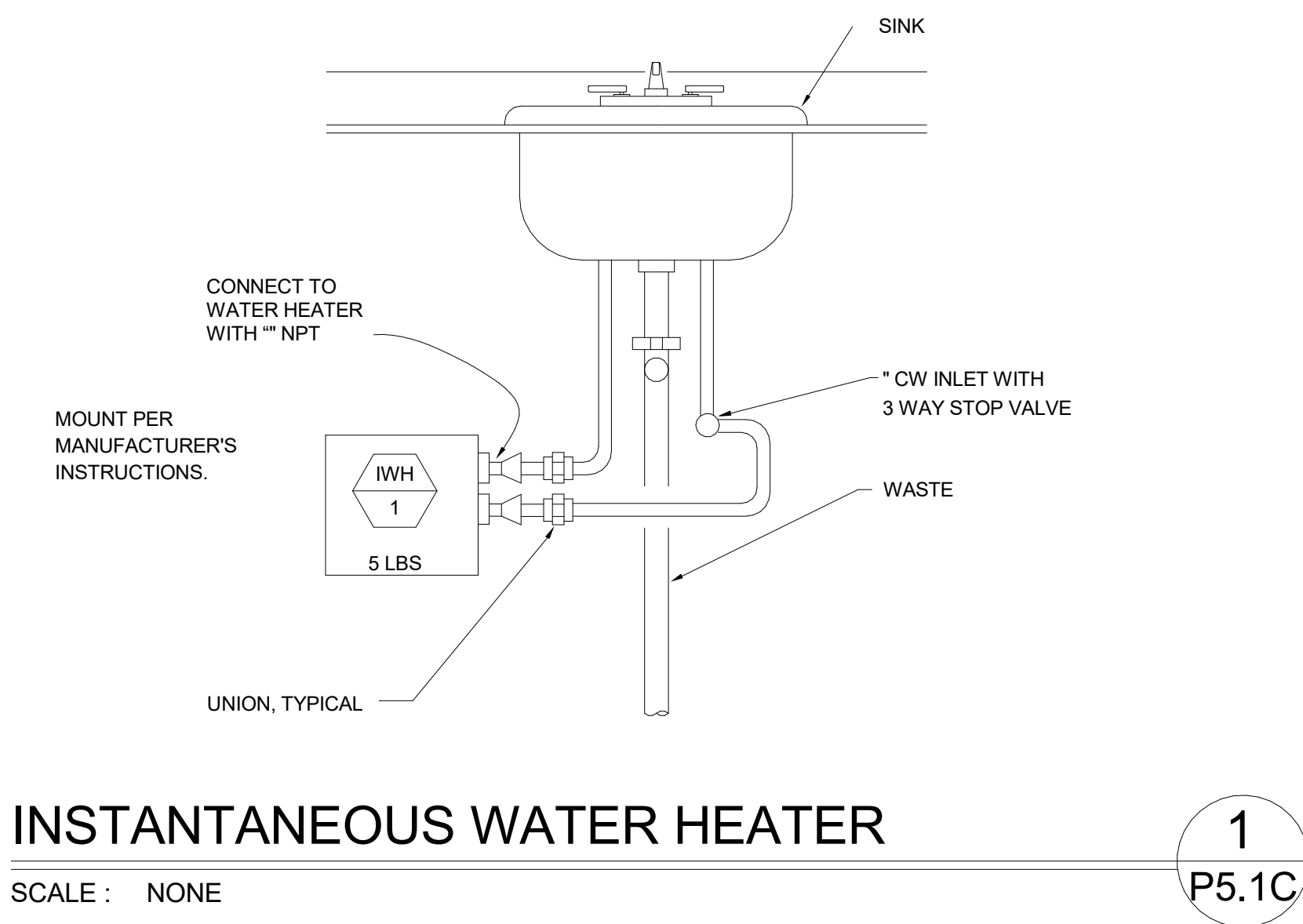
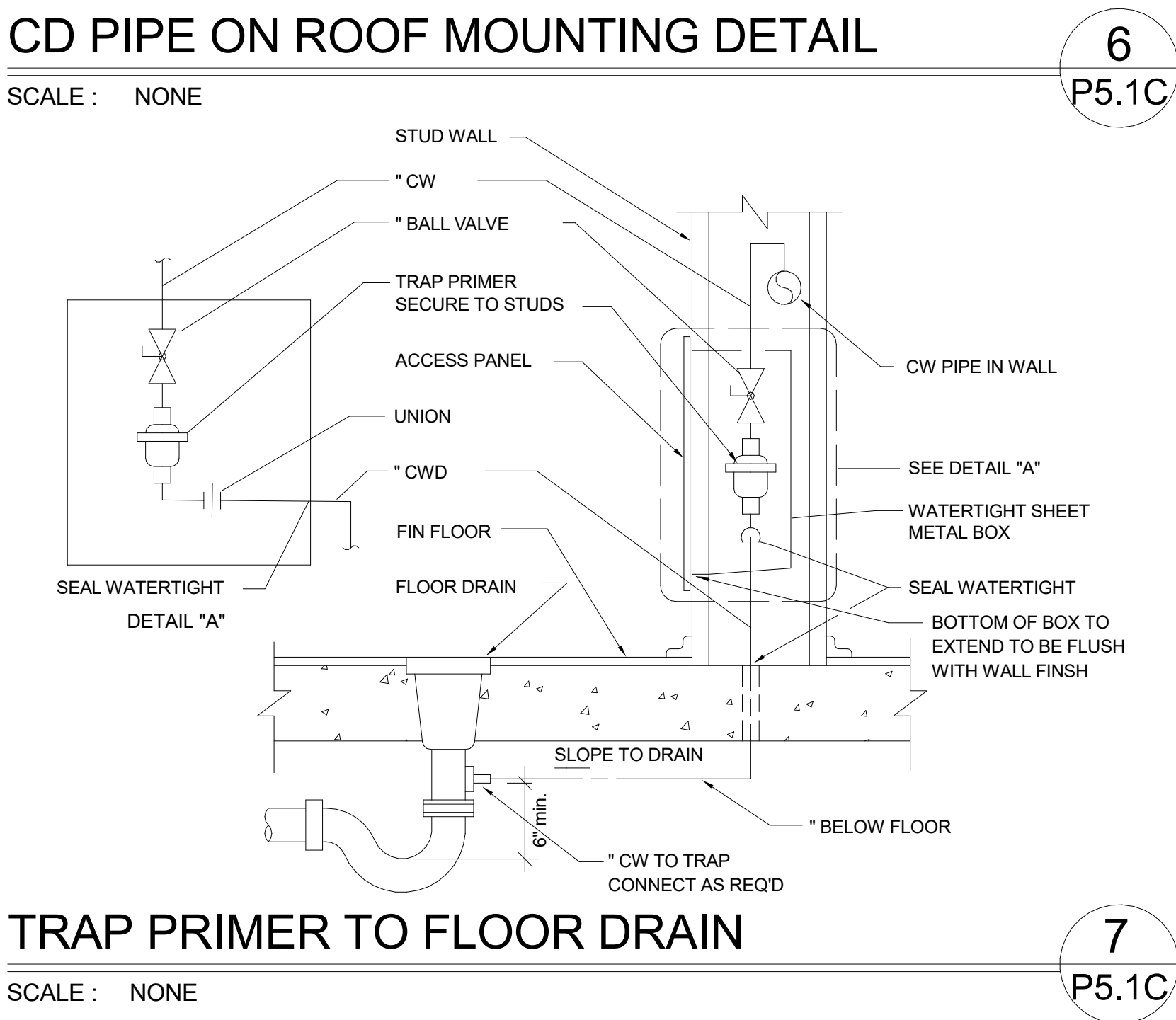
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STEEL PIPE, NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)	NFA 54.7.2.5.1 TABLE 7.2.5.2 SUPPORT OF PIPING	
		NOMINAL SIZE OF TUBING SMOOTH-WALL (IN. O.D.)	SPACING OF SUPPORTS (FT.)
1/2	6	1/2	4
3/4 OR 1	8	5/8 OR 3/4	6
1 1/4 OR LARGER (HORZ.)	10	7/8 OR 1 (HORZ.)	8
1 1/4 OR LARGER (VERT.)	EVERY FLOOR LEVEL	1 OR LARGER (VERT.)	EVERY FLOOR LEVEL



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Project
**MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III**

Sheet Title
PLUMBING DETAILS

Client Project Number:		Client Proj. #	
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Issue Date:	11/3/20		
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GENERAL ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR IS TO PROVIDE LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, RELATED HAND TOOLS, SPECIAL AND OCCASIONAL SERVICES TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED AND SHOWN ON THE PLANS.
2. MOUNTING HEIGHTS SHALL BE A MAXIMUM +48" TO TOP OF BOX OR MINIMUM 15" TO BOTTOM OF BOX PER CBC 1142A. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON SYMBOL LIST UNLESS OTHERWISE NOTED ON DRAWINGS.
3. BONDING JUMPERS SHALL BE INSTALLED TO INSURE CONTINUITY WHERE CONDUIT CONNECTIONS AT CONCENTRIC KNOCKOUTS ARE TO SERVE AS A GROUND.
4. PROVIDE GREEN THWN COPPER GROUND WIRE FROM PANELBOARD GROUND BUS TO ALL BRANCH CIRCUITS.
5. THE ELECTRICIAN SHALL CHECK THE TIGHTNESS OF ALL PANELBOARD BUSES AND CIRCUIT BREAKER LUGS. COMPLETELY VACUUM AND CLEAN INTERIOR OF EQUIPMENT PRIOR TO TURN OVER TO THE OWNER.
6. ALL NEW AND EXISTING PANELBOARDS AND SWITCHBOARDS SHALL BE PROVIDED WITH NEW TYPEWRITTEN DIRECTORIES TO IDENTIFY THE LOCATION OF EACH LOAD SERVED.
7. ALL EQUIPMENT SHALL BE U.L. LISTED AND INSTALLED AS PER LISTING OR LABELING (I.E. MAX. FUSE SIZES MEAN FUSE PROTECTION REQUIRED).
8. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL LAYOUTS OF ALL LIGHTING FIXTURES AND EQUIPMENT.
9. CONTRACTOR TO COORDINATE ALL NEW WORK WITH ALL OTHER TRADES FOR A SMOOTH FLOW OF INSTALLATION WORK.
10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO ALL WALLS, FLOORS AND CEILINGS INCURRED DURING ELECTRICAL CONSTRUCTION. IF DAMAGE OCCURS DURING ELECTRICAL CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PATCH, PAINT AND REPAIR TO MATCH EXISTING CONDITIONS.
11. COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH CONTRACTOR RESPONSIBLE FOR PROVIDING EQUIPMENT AND EQUIPMENT MANUFACTURER DATA SHEETS.
12. COORDINATE ELECTRICAL OUTLET LOCATIONS WITH ARCHITECTURAL ELEVATIONS (I.E. CABINETRY). AVOID ALL COUNTER SUPPORTS, AND LOCATIONS BEHIND INACCESSIBLE FIXED CABINETS.
13. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
14. ALL CORRIDOR AND EXTERIOR WALL PENETRATIONS FOR PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL.
15. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL AND PLUMBING CONTRACT DRAWINGS AND VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS, MOTOR SIZES AND CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SUPPLIERS AND MANUFACTURERS PRIOR TO INSTALLATION OF ELECTRICAL CONNECTIONS.
16. RECEPTACLES SHALL NOT BE INSTALLED BACK TO BACK AND SHALL BE SPACED 24" APART. WHERE RECEPTACLES CANNOT BE SPACED 24" APART, PROVIDE 3M FIRE RATED PUTTY PADS TO MATCH WALL FIRE RATING.
17. PROVIDE AN ISOLATED GROUND WIRE IN ADDITION TO NORMAL EQUIPMENT GROUND IN ALL COMPUTER DEDICATED CIRCUITS.
18. ALL CONTROL DEVICES TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA SHALL BE INSTALLED AT A MINIMUM OF 36" C/L, TO A MAXIMUM OF 48" TO TOP OF BOX FROM THE FINISHED FLOOR.
19. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF MANUFACTURER'S OR OWNER'S DATA AVAILABLE AND/OR VERIFY DATA IN THE FIELD FOR PROVIDING AND INSTALLING CORRECT CABLE LENGTHS.
20. ALL EQUIPMENT MUST BE LISTED, LABELED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY (NRTL).
21. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO KEEP ELECTRICAL ROOMS EXCLUSIVELY DEDICATED TO PANELBOARDS, SIGNAL AND OTHER ELECTRICAL EQUIPMENT. NO PLUMBING, PIPING OR MECHANICAL DUCTS SHALL RUN OVER ELECTRICAL PANEL OR OTHER ELECTRICAL EQUIPMENT PER C.E.C. 110-26(f).
22. ALL SWITCHES AND RECEPTACLES SHALL BE PROVIDED WITH 'BROTHER' LABELING SYSTEM TO IDENTIFY THE PANEL AND CIRCUIT NUMBER OF EACH OUTLET. COLOR TO BE 3/8" HIGH BLACK ON TRANSPARENT TAPE.
23. ALL CABINETS, DISCONNECT SWITCHES, PULLBOXES, AND TERMINAL BOXES SHALL BE PROVIDED WITH LABELING SYSTEM TO IDENTIFY THE PANEL AND ITS USE. SEE SPECIFICATIONS FOR REQUIREMENTS.
24. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE PROJECT MANUAL.
25. DRAWINGS INDICATE THE LOCATION OF DEVICES, FIXTURES AND EQUIPMENT AND THE CIRCUIT NUMBER AND PANEL DESIGNATION WHICH SUPPLIES THEM. THE CONTRACTOR SHALL VERIFY WITH ARCHITECT/VENDORS AND COORDINATE ALL LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
26. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, LATEST EDITION.
27. ALL EXTERIOR CONDUIT ABOVE GRADE INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE RIGID GALVANIZED STEEL, U.O.N. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT.
28. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
29. ALL UNDERGROUND CONDUIT RUNS SHALL BE SEALED TO PREVENT GAS/MOISTURE ENTERING THE PIPE PER ARTICLE 230-8, 300.5 AND 300.50E.
30. PROVIDE EXPANSION FITTINGS AND/OR CONDUIT FLEX TO CONDUITS PASSING THROUGH STRUCTURAL EXPANSION JOINT SYSTEM. VERIFY/COORDINATE WITH ARCHITECT FOR LOCATION.
31. ALL SIGNAL WIRING/CABLING (TELEPHONE/INTERCOM/DATA/FIRE ALARM/CATV/INTRUSION ALARM SYSTEMS) SHALL BE NEATLY TERMINATED WITH TERMINAL BLOCKS AND LABELED WITH WIRE MARKERS AT ITS CABINETS/PANELS.
32. ALL RACEWAY PASSING THROUGH EXPANSION JOINT AREA SHALL BE PROVIDED WITH EXPANSION JOINT FITTINGS AND/OR FLEX CONDUIT AS REQUIRED.
33. ALL FIXTURES WITH EMERGENCY BATTERY PACK SHALL BE PROVIDED WITH UNSWITCHED HOT.
34. ALL EXTERIOR MOUNTED GFI RECEPTACLE OUTLETS TO BE PROVIDED WITH LOCKABLE COVERS, TAYMAC MX3200.
35. FOR POWER AND LIGHTING CIRCUITS, CONTRACTOR SHALL PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT IN THE RACEWAY OR PROVIDE BREAKER TIES TO MEET NEC CODE 210.4.
36. ALL EQUIPMENT/COMPONENTS/DEVICES INSTALLED OUTDOOR SHALL BE U.L. LISTED FOR WET LOCATION.
37. THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.
38. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECTURAL DRAWINGS ALL LOCATIONS AND DIMENSIONS OF DEVICES/EQUIPMENT PRIOR TO ROUGH-IN.
39. ALL EXIT SIGNS SHALL COMPLY WITH SECTIONS 1013 OF THE C.B.C.
40. ALL DIVISION 15 EQUIPMENT LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY DIVISION 15 U.O.N. PROVIDE CONDUIT WHERE REQUIRED BY DIV 15.
41. COORDINATE INSTALLATION OF ALL RECESSED LIGHT FIXTURES WITH DIVISION 15 PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF FIXTURES THAT THERE IS NO CONTACT BETWEEN DUCTS AND FIXTURES TO AVOID VIBRATION IN FIXTURES.
42. ALL CONDUIT STUB OUTS AND CONDUITS TERMINATING TO A J-BOX, CABINET, AND THE LIKE SHALL BE PROVIDED WITH INSULATED THROAT. BOX OR CABINET COVER SHALL BE LABELED AS TO USE.
43. MEP COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

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

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

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 30 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

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

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2023 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP □ MD □ PP □ E □ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP □ MD □ PP □ E □ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # _____.

ELECTRICAL SYMBOL LIST

NOTE: DASHED SYMBOLS ON PLANS DENOTE EXISTING DEVICES

<input checked="" type="checkbox"/>		LIGHT FIXTURE - SEE FIXTURE SCHEDULE	(E)	EXISTING
<input checked="" type="checkbox"/>		EMERGENCY LIGHT FIXTURE WITH BATTERY PACK - SEE FIXTURE SCHEDULE	(N)	NEW
		WALL MOUNTED LIGHT FIXTURE - SEE FIXTURE SCHEDULE	AL	ALUMINUM
		EXIT SIGN - WALL OR CEILING MOUNT WITH DIRECTIONAL ARROWS WHERE INDICATED SEE FIXTURE SCHEDULE	ANN	ANNUNCIATOR
		EMERGENCY LIGHT FIXTURE - SEE FIXTURE SCHEDULE	CL	CENTERLINE
		1PST LIGHT SWITCH +48" U.O.N.	CR	CLASSROOM
		3-WAY LIGHT SWITCH, +48" TO TOP OF BOX U.O.N.	CU	COPPER
		4-WAY LIGHT SWITCH, +48" TO TOP OF BOX U.O.N.	FACP	FIRE ALARM CONTROL PANEL
		KEYED LIGHT SWITCH +48" TO TOP OF BOX U.O.N.	FATC	FIRE ALARM TERMINAL CABINET
		1PST LIGHT SWITCH WITH PILOT LIGHT, +48" TO TOP OF BOX U.O.N.	GFI	GROUND FAULT INTERRUPTER
		CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR, WATTSTOPPER LMDC-100	GFP	GROUND FAULT PROTECTION
		CEILING MOUNT PHOTO SENSOR, WATTSTOPPER LMLS-400	IDF	INTERMEDIATE DISTRIBUTION FRAME
		LIGHTING CONTROLLER WITH DAYLIGHTING, SEE LIGHTING DETAILS	IG	ISOLATED GROUND
		LIGHTING CONTROLLER WITHOUT DAYLIGHTING, SEE SEE LIGHTING DETAILS	IGB	ISOLATED GROUND BUS
		DIMMING SWITCH, WATTSTOPPER #LMSW-SERIES, +48" TO TOP OF BOX	MDF	MAIN DISTRIBUTION FRAME
		MULTI-SCENE DIMMING SWITCH, WATTSTOPPER	MT	EMPTY CONDUIT WITH PULL CORD
		WALL MOUNT OCCUPANCY SENSOR, +48" TO TOP OF BOX	PB	PULL BOX
		DIMMING SWITCH WITH OCC SENSOR, LUTRON MS-Z101-XX	RPS	REMOTE POWER SUPPLY
		20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE, +18" U.O.N.	SAD	SEE ARCHITECTURAL DRAWINGS
		20A, 125V, 4W DUPLEX RECEPTACLE, CEILING MOUNTED	STC	SIGNAL TERMINAL CABINET
		20A, 125V, 3W GROUNDING TYPE, FOURPLEX RECEPTACLE, +18" U.O.N.	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
		20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE, MOUNTED HORIZONTALLY	TTB	TELEPHONE TERMINAL BOARD
		20A, 125V DUPLEX GFI RECEPTACLE, +18" U.O.N.	WP	WEATHERPROOF
		20A, 125V DUPLEX GFI RECEPTACLE WITH ONE SWITCHED PLUG	UG	UNDERGROUND
		SPECIAL RECEPTACLE AS REQUIRED BY EQUIPMENT SPECIFIED	U.O.N.	UNLESS OTHERWISE NOTED
		JUNCTION BOX, CEILING OR WALL MOUNTED - SIZED PER CODE	VIF	VERIFY IN FIELD
		DATA JUNCTION BOX FOR SECURITY CAMERA. WP INDICATES WEATHERPROOF	XFMR	TRANSFORMER
		AV WALL PLATE		FIXTURE TAG - LETTER DENOTES TYPE, NUMBERS INDICATE LAMP QUANTITY AND WATTAGE
		DUPLEX DATA OUTLET +18" U.O.N.		NUMBERED ELECTRICAL NOTE
		FOURPLEX OUTLET +18" U.O.N.		MECHANICAL TAG - LETTER DENOTES TYPE, NUMBER DENOTES EQUIPMENT NUMBER
		TELEPHONE OUTLET +48" TO TOP OF BOX		
		WIRELESS ACCESS POINT		
		INTRUSION ALARM KEYPAD BACKBOX WITH 3/4" CONDUIT TO IACP LOCATION		
		INTRUSION ALARM MOTION SENSOR BACKBOX WITH 3/4" CONDUIT TO IACP LOCATION		
		INTERCOM SYSTEM CLOCK/SPEAKER UNIT		
		PAGING SPEAKER - CEILING OR WALL MOUNTED		
		FIRE ALARM CONTROL PANEL (FACP)		
		FIRE ALARM REMOTE POWER SUPPLY		
		FIRE ALARM MANUAL PULL STATION, +48" TO TOP OF BOX, U.O.N.		
		FIRE ALARM SMOKE DETECTOR		
		200° FIXED HEAT DETECTOR		
		135° FIXED HEAT DETECTOR		
		DUCT SMOKE DETECTOR		
		CARBON MONOXIDE DETECTOR		
		FLOW SWITCH		
		TAMPER SWITCH		
		FIRE ALARM SPEAKER/STROBE, CANDELA AS NOTED		
		FIRE ALARM SPEAKER WITH WEATHER PROOF BACK BOX		
		FIRE ALARM STROBE, CANDELA AS NOTED		
		ADDRESSABLE MONITOR MODULE		
		ADDRESSABLE CONTROL RELAY		
		END OF LINE RESISTOR		
		ISOLATED GROUND BUS		
		DISCONNECT SWITCH - FUSED AS REQUIRED, WEATHERPROOF FOR OUTDOORS, SIZED PER MANUFACTURER'S REQUIREMENTS		
		MOTOR CONNECTION		
		THERMAL OVERLOAD SWITCH		
		MANUAL MOTOR STARTING SWITCH, HORSE POWER RATED WITH OVERLOADS		
		EXISTING CONDUIT		
		BRANCH CIRCUIT CONDUIT CONCEALED IN WALL OR CEILING		
		BRANCH CIRCUIT CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND		
		HOMERUN TO PANELBOARD OR OTHER TERMINATION POINT		
		STUB CONDUIT TO ACCESSIBLE SPACE		
		CONDUIT UP		
		CONDUIT DOWN		
		ANY BRANCH CIRCUIT CONDUIT SHALL BE MINIMUM 3/4" C - 2#12, 1#12 GREEN GROUND UNLESS OTHERWISE NOTED. FOR A GREATER NUMBER OF #12 WIRES: (1#4" C - 3#12, 1#12G) ETC. FOR WIRE SIZES OTHER THAN #12: (1#4" C - 1#12G), (GROUND SIZED PER CEC, IN CODE SIZE CONDUIT) ETC.		



No.	Revisions	By	Date	Appr.

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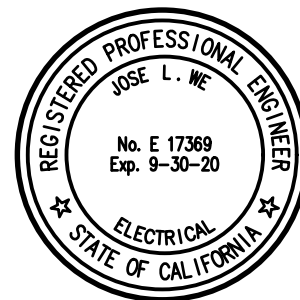
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ISSUE DATE: 8/25/20 BY: MH

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2425 WALNUT BOULEVARD, WALNUT
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Project

MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III

Sheet Title

ELECTRICAL SYMBOLS, NOTES AND
SCHEDULES

Client Project Number: Client Proj. #

Scale: AS NOTED

Drawn By: DAM

Checked By: TLK

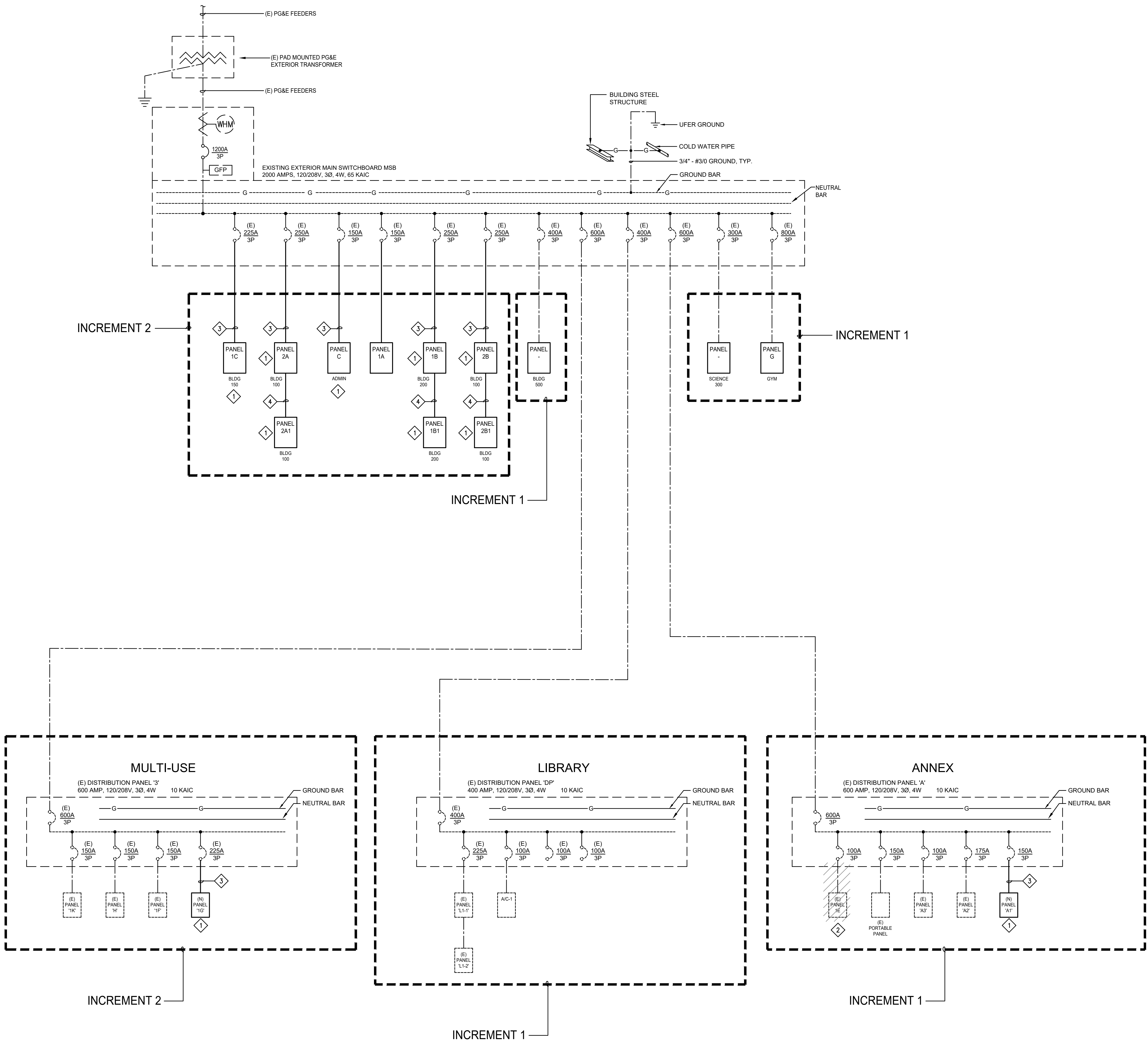
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Sheet 71 of 95



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SHEET NOTES

- EXISTING PANEL TO BE REPLACED WITH NEW.
- EXISTING PANEL TO BE DISCONNECTED AND REMOVED.
- EXISTING FEEDER TO BE INTERCEPTED, EXTENDED AND RECONNECTED.
- NEW FEEDER.



Revisions				
No.	Revisions	By	Date	Appr.

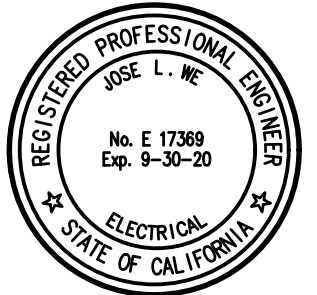
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Project
MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III

Sheet Title
ELECTRICAL ONE-LINE DIAGRAM

Client Project Number: Client Proj. #

Scale: AS NOTED
Drawn By: DAM
Checked By: TLK
Issue Date: 8/25/20

Sheet
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Sheet 72 of 95



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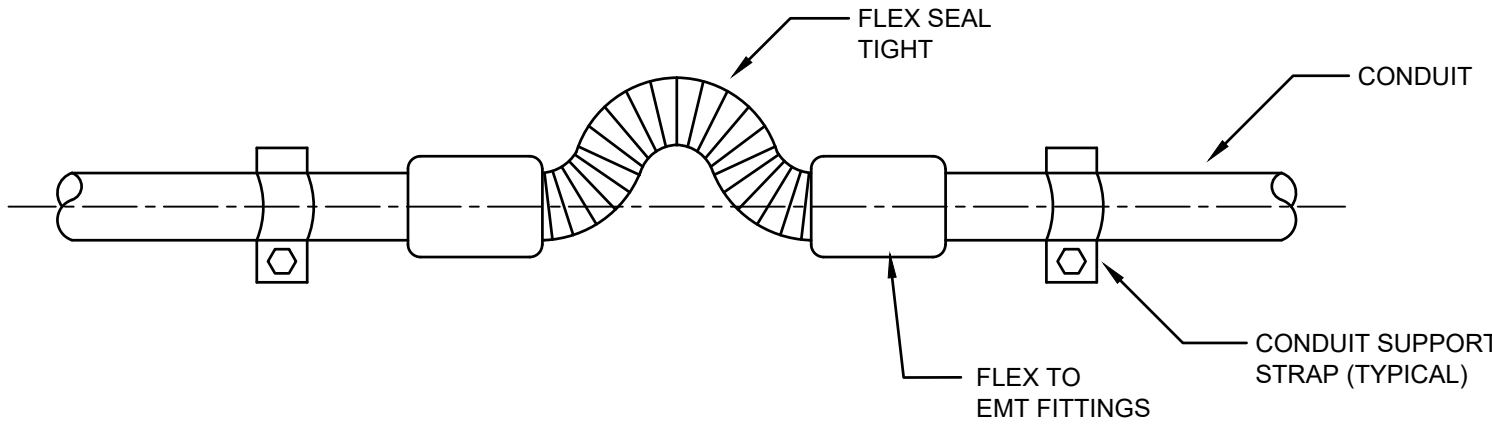
NEW PANEL 1G														MULTI-USE			
DESCRIPTION	LOAD (KVA)				CB	CKT	SN	CKT	CB	LOAD (KVA)				DESCRIPTION			
	LTG.	REC.	RES.	MOT.						LTG.	REC.	RES.	MOT.				
RECEPT - CHARGING CART - MUSIC		1.00			20/1	1	*	2	20/1					RECEPT - STAGE SCREEN			
RECEPT - PRINTER/TEACHER - MUSIC		0.54			20/1	3	*	4	20/1					RECEPT - STAGE PROJECTOR			
RECEPT - CHARGING CART - MUSIC		1.00			20/1	5	*	6	20/1		1.10			RECEPT - LOBBY VENDING			
RECEPT - MUSIC		0.72			20/1	7	*	8	20/1		1.10			RECEPT - LOBBY VENDING			
RECEPT - MUSIC		0.72			20/1	9	*	10	20/1					MECHO SHADES			
RECEPT - PRACTICE ROOM		0.36			20/1	11	*	12	20/1					MECHO SHADES			
RECEPT - DRAMA		0.54			20/1	13	*	14	20/1					MECHO SHADES			
RECEPT - CHARGING CART - DRAMA		1.00			20/1	15	*	16	20/1					MENU BOARD			
RECEPT - PRINTER/TEACHER - DRAMA		0.54			20/1	17	*	18	20/1		0.80			DOOR HOLDERS			
RECEPT - CHARGING CART - DRAMA		1.00			20/1	19	*	20	20/1								
RECEPT					20/1	21	*	22	20/1								
					20/1	23	*	24	20/1								
					20/1	25	*	26	20/1								
					20/1	27	*	28	20/1								
					20/1	29	*	30	20/1								
					20/1	31	*	32	20/1								
					20/1	33	*	34	20/1								
					20/1	35	*	36	20/1								
					20/1	37	*	38	20/1								
					20/1	39	*	40	20/1								
					20/1	41	*	42	20/1								
TOTAL		7.42									2.20	0.80					
VOLTS:	120/208V, 3ø, 4W	MTG:		SURFACE													
BUS:	225 AMP	TYPE:		N2		CONNECTED KVA:				10.42							
MAIN:	225A MB	KAIC:				CONNECTED AMPS:				28.94							

EXISTING PANEL 1K														MULTI-USE			
DESCRIPTION	LOAD (KVA)				CB	CKT	SN	CKT	CB	LOAD (KVA)				DESCRIPTION			
	LTG.	REC.	RES.	MOT.						LTG.	REC.	RES.	MOT.				
					30/1	1	*	2									
					30/1	3	*	4	40/3								
					30/1	5	*	6									
RECEPT KILN					20/1	7	*	8	20/1					KILN LIGHTS			
IDF RACK UPS					20/1	9	*	10	20/1					BRIDGE LITES			
					20/1	11	*	12	20/1					CAFETERIA QUAD LIGHTS			
					20/1	13	*	14	20/1					BALER			
					20/1	15	*	16	20/1					DRAFT FAN			
						17	*	18									
AC-2					15/3	19	*	20	15/3								
						21	*	22									
						23	*	24									
					15/3	25	*	26	15/3								
						27	*	28									
KILN					20/1	29	*	30	50/2								
KILN					20/1	31	*	32									
SERVING ROOM PANEL					100/2	33	*	34	30/1								
						35	*	36	20/1								
TOTAL																	
VOLTS:	120/208V, 3ø, 4W	MTG:												CONNECTED KVA: _____ CONNECTED AMPS: _____			
BUS:	_____	TYPE:															
MAIN:	_____	KAIC:															

EXISTING PANEL 2K														OFFICE 604			
DESCRIPTION	LOAD (KVA)				CB	CKT	SN	CKT	CB	LOAD (KVA)				DESCRIPTION			
	LTG.	REC.	RES.	MOT.						LTG.	REC.	RES.	MOT.				
AC-601					15/2	1	*	2	20/1					RECEPTACLES			
						3	*	4	20/1					RECEPTACLES			
AC-602					15/2	5	*	6	20/1					RECEPTACLES			
						7	*	8	20/1					BRIDGE LIGHTS			
AC-603					15/2	9	*	10	20/1					EF-3			
						11	*	12	20/1					RECEPT - KILN ROOM			
					15/2	13	*	14	20/1					STAFF BATH			
						15	*	16	20/1					STAFF BATH			
					15/2	17	*	18	20/1								
						19	*	20									
					15/2	21	*	22	60/3								
						23	*	24									
					15/2	25	*	26									
						27	*	28	60/3								
					20/1	29	*	30									
TOTAL																	
VOLTS:	120/208V,3ø,4W				MTG:				SURFACE								
BUS:					TYPE:												
MAIN:					KAIC:												
									CONNECTED KVA: _____								
									CONNECTED AMPS: _____								

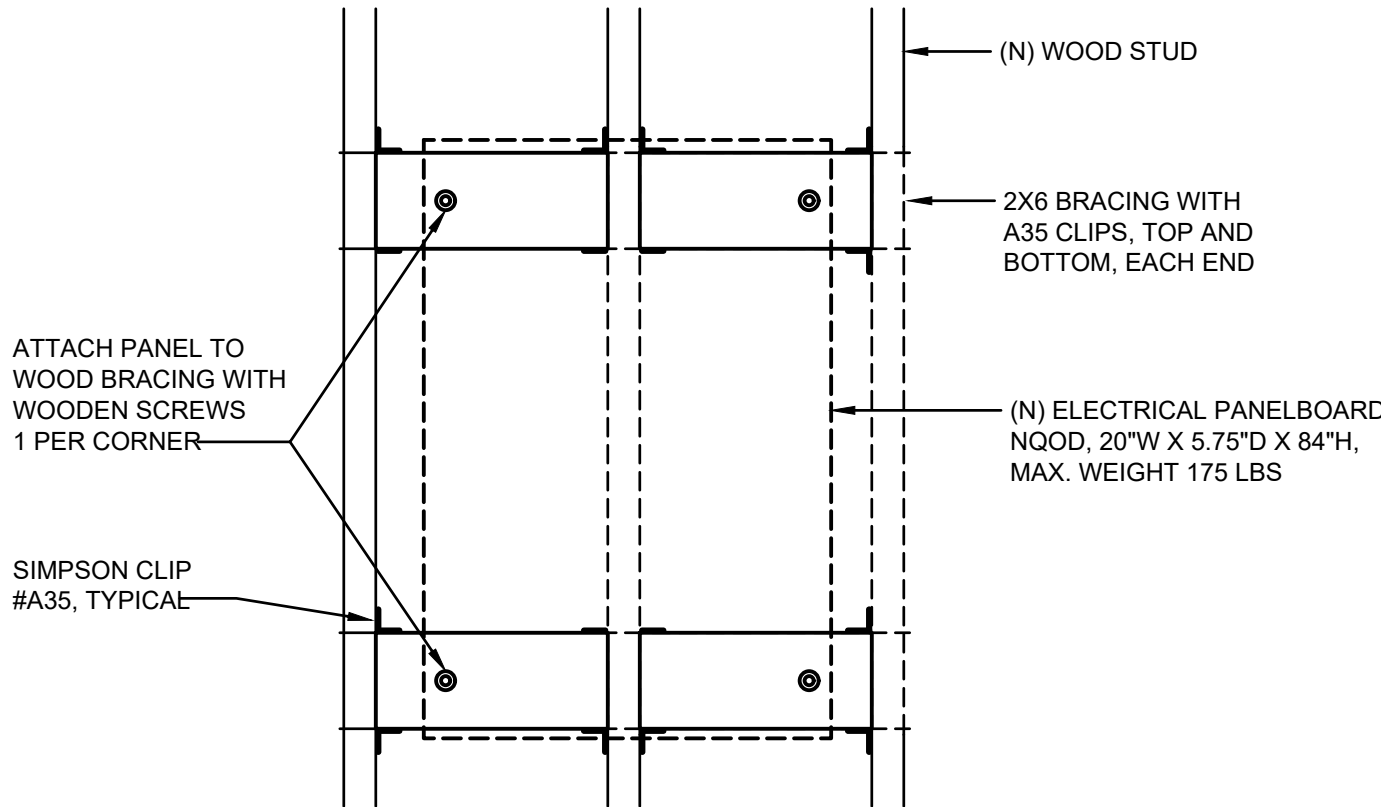


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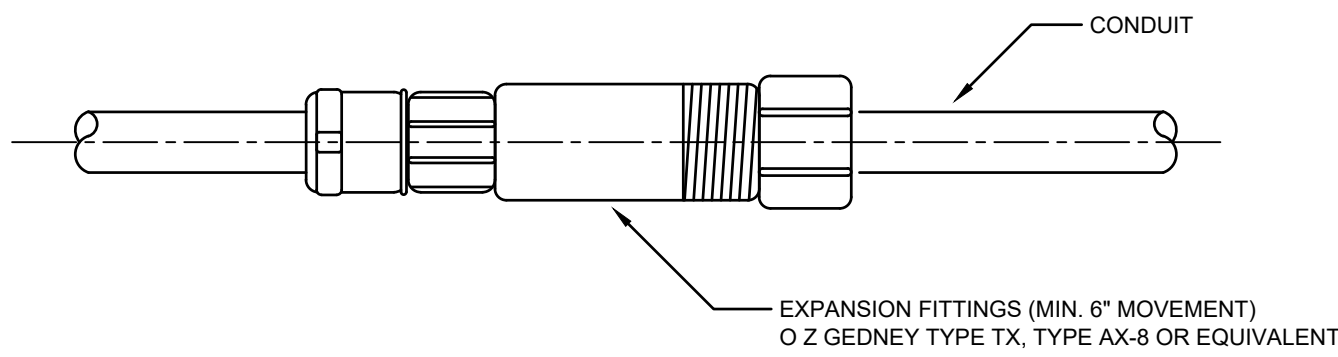
EXPOSED CONDUIT EXPANSION FITTING DETAIL - FLEX JOINT

NTS 8



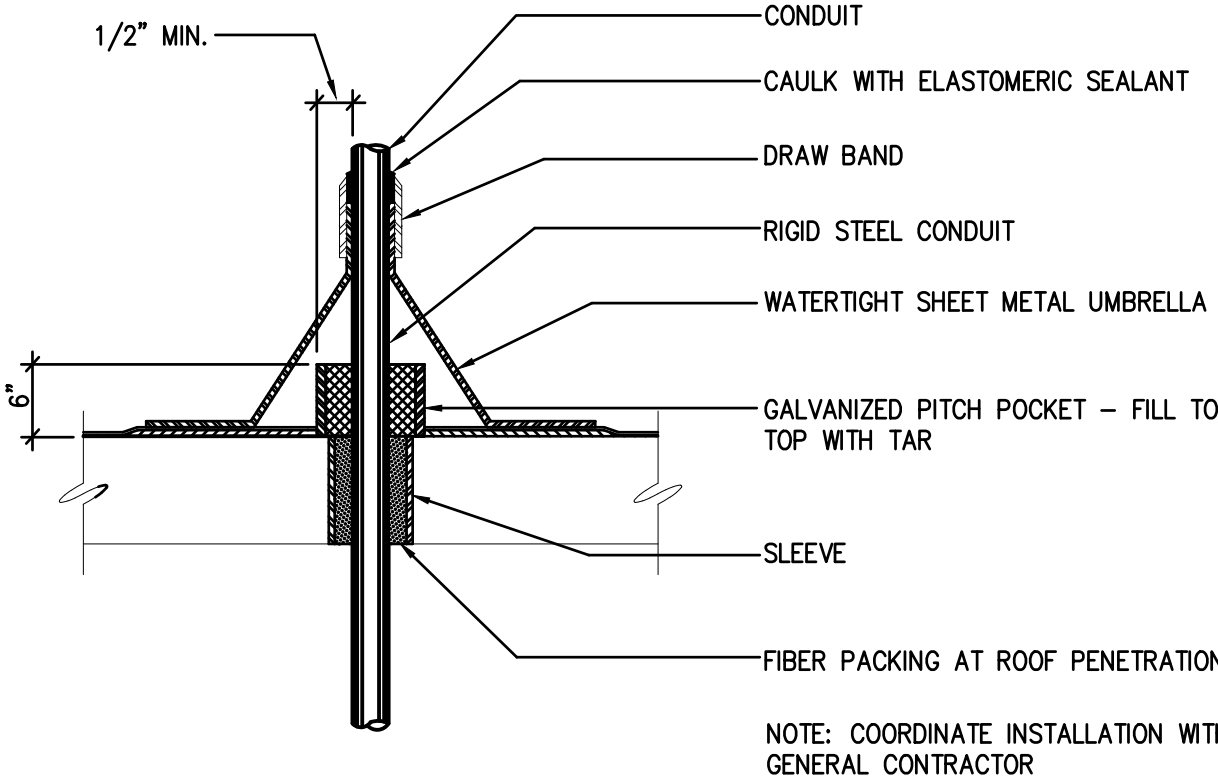
SURFACE PANELBOARD MOUNTING DETAIL - WOOD

NTS 4



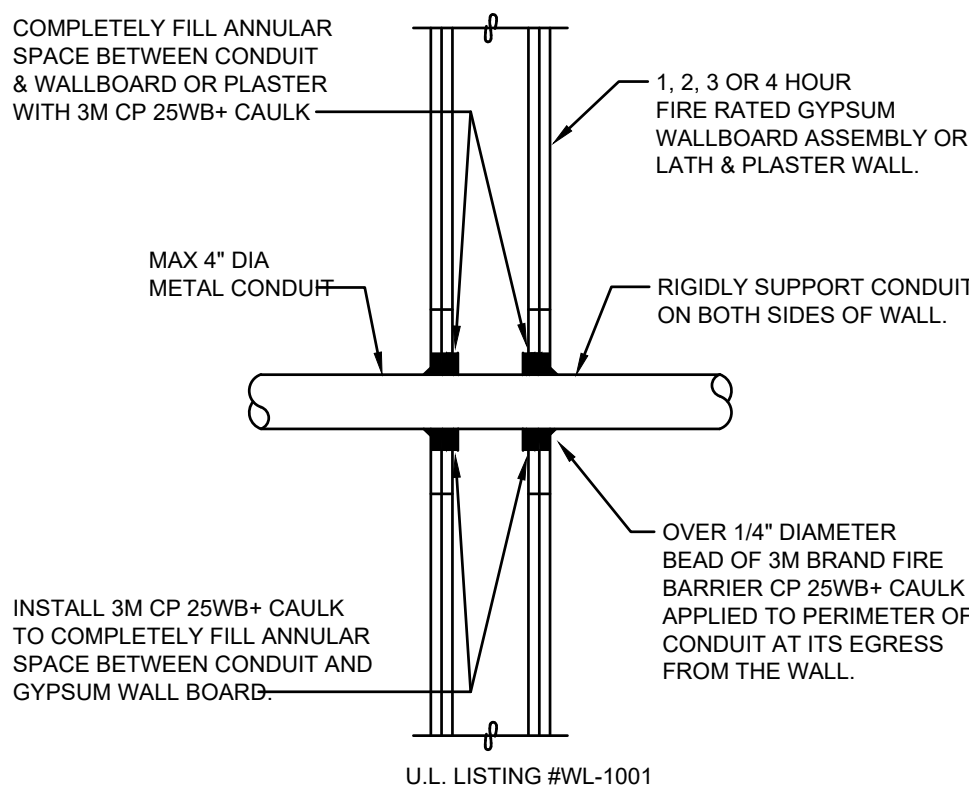
EXPOSED CONDUIT EXPANSION FITTING DETAIL - WALL

NTS 9



CONDUIT ROOF PENETRATION DETAIL

NTS 6



CONDUIT PENETRATION DETAIL - FIRE RATED WALL

NTS 7



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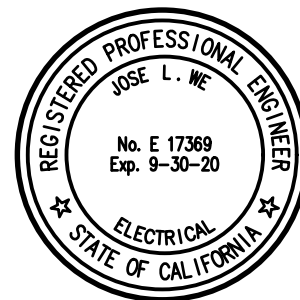
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Project

**MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III**

Sheet Title

ELECTRICAL DETAILS

Client Project Number: Client Proj. #

Scale: AS NOTED

Drawn By: DAM

Checked By: TLK

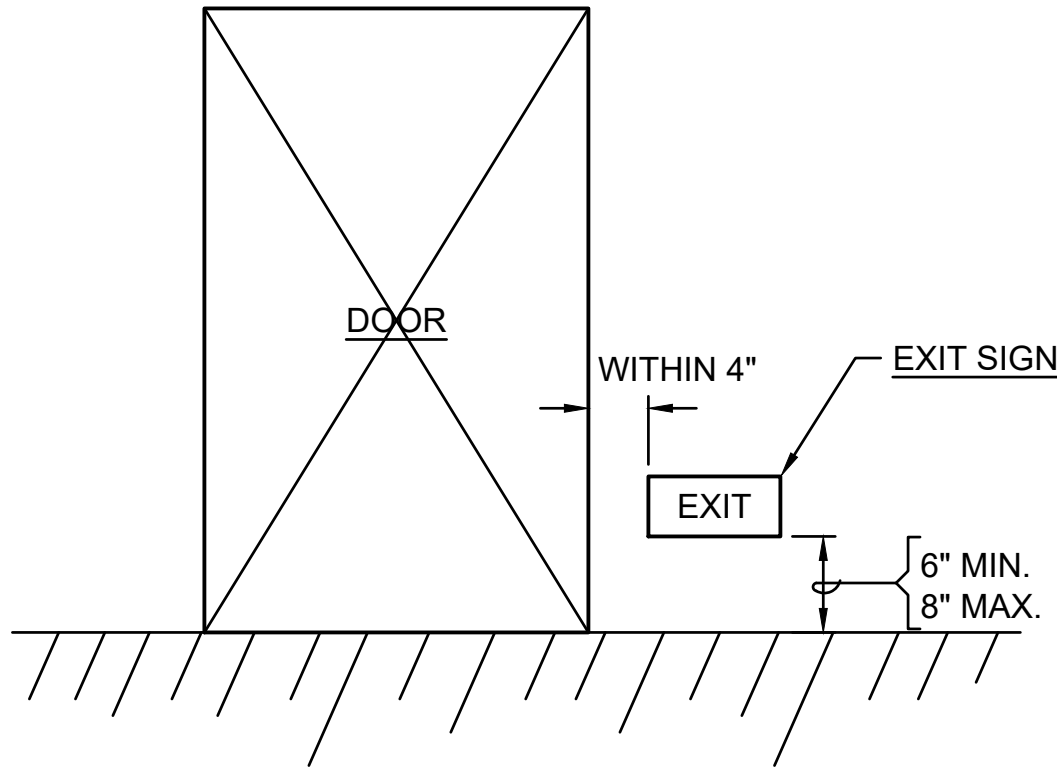
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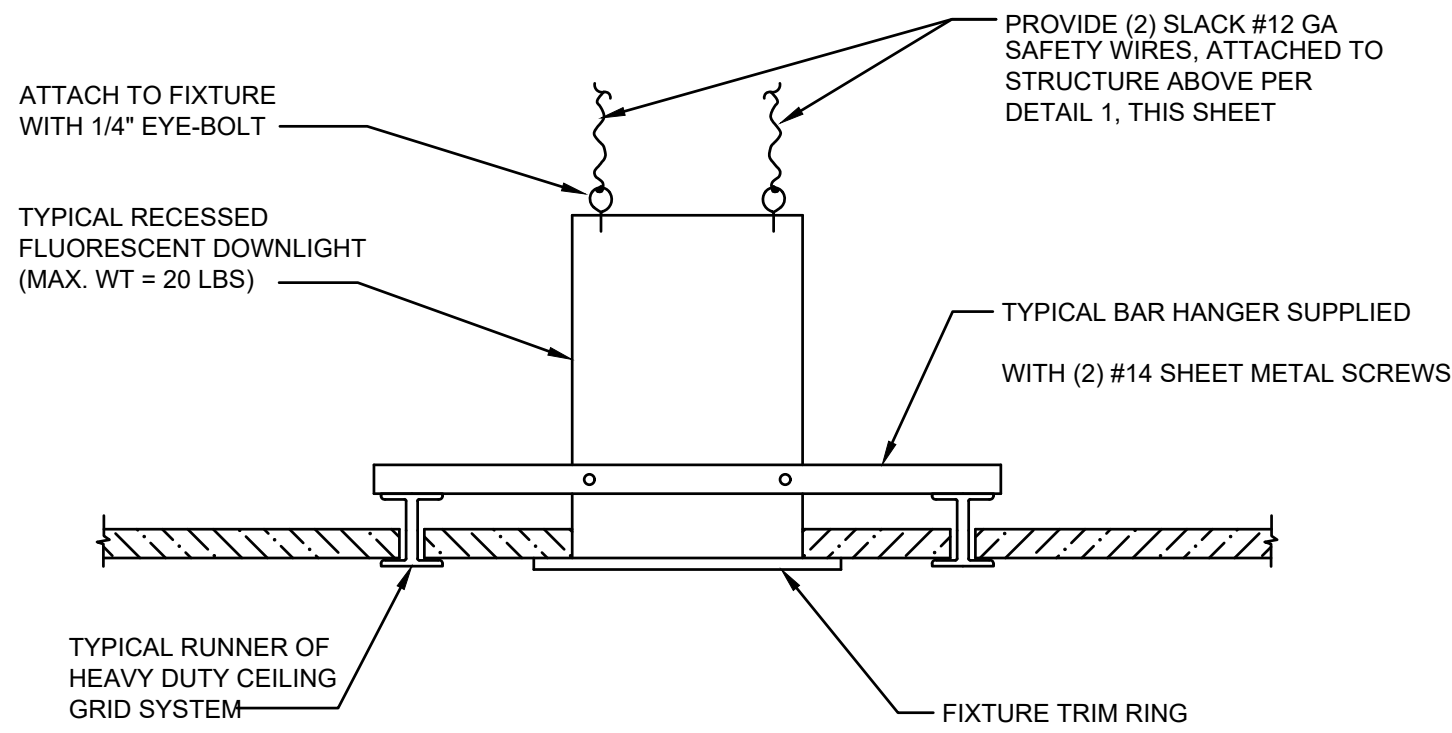


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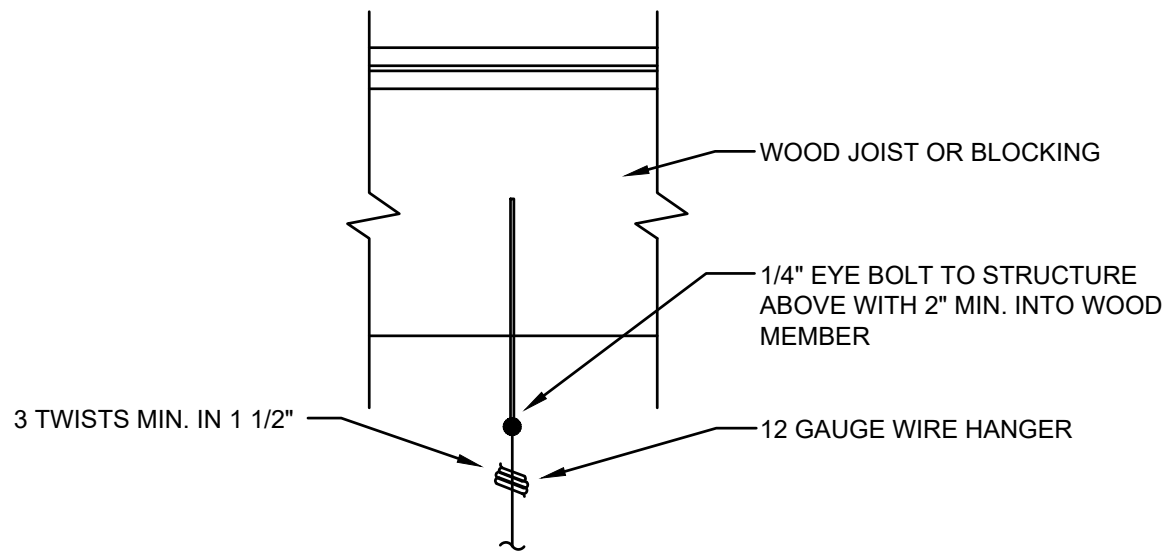
LOW LEVEL EXIT SIGN DETAIL

NTS 8



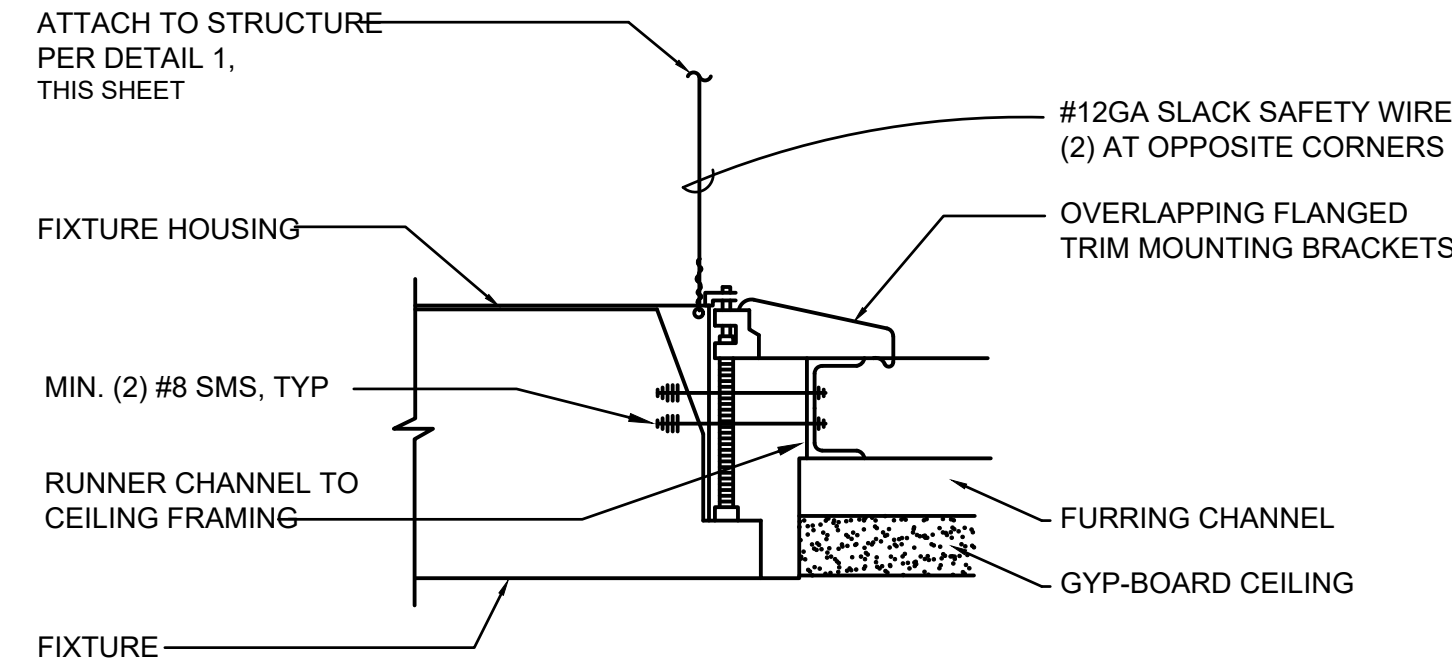
RECESSED FIXTURE MOUNTING DETAIL - T-BAR

NTS 5



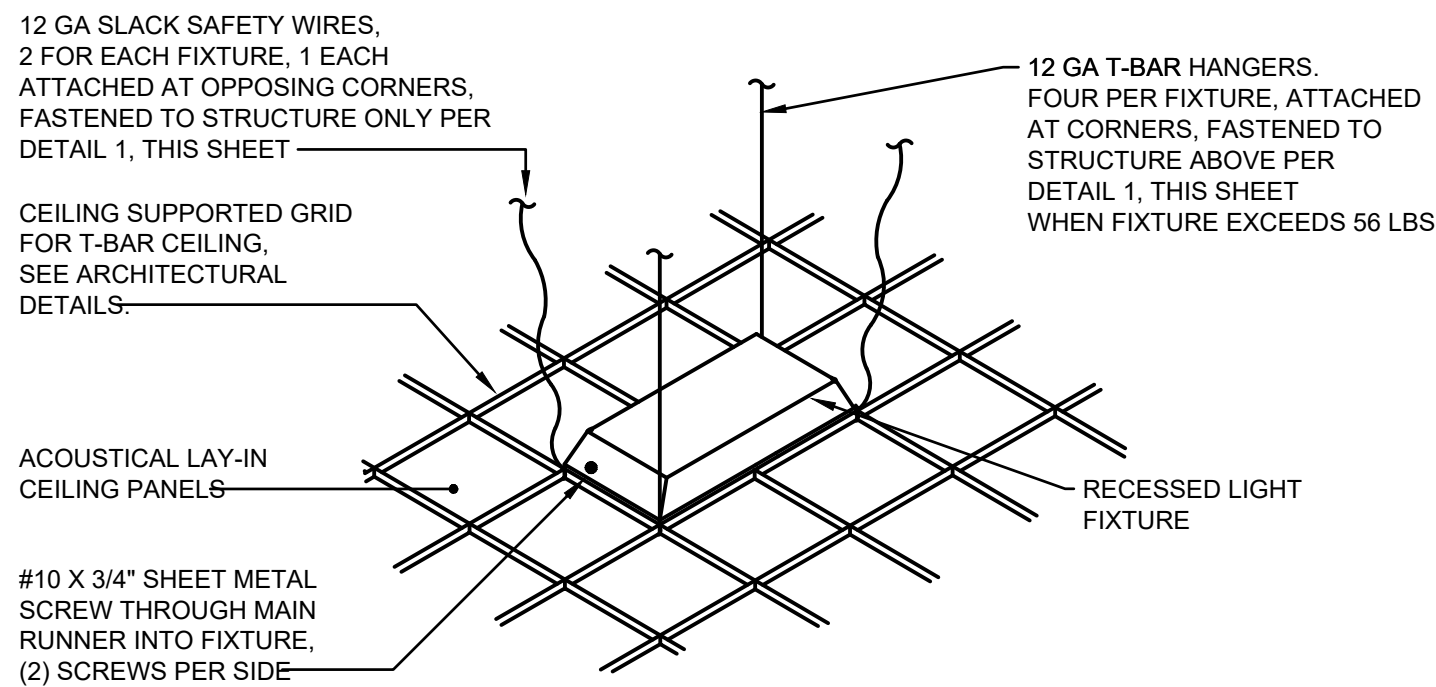
TYPICAL SAFETY WIRE CONNECTION

NTS 1



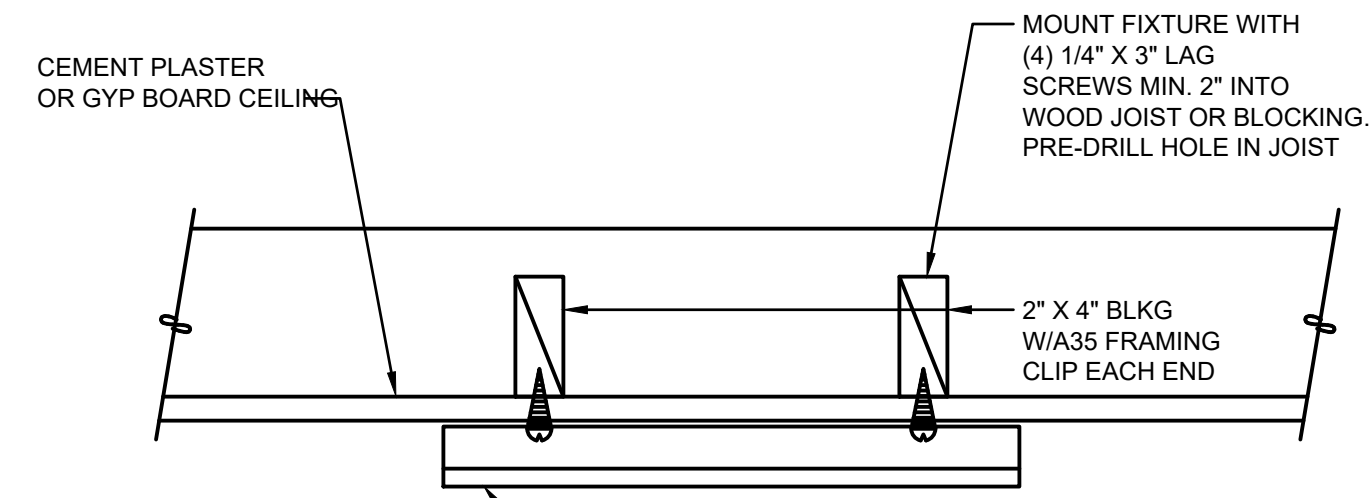
RECESSED FIXTURE MOUNTING DETAIL

NTS 6

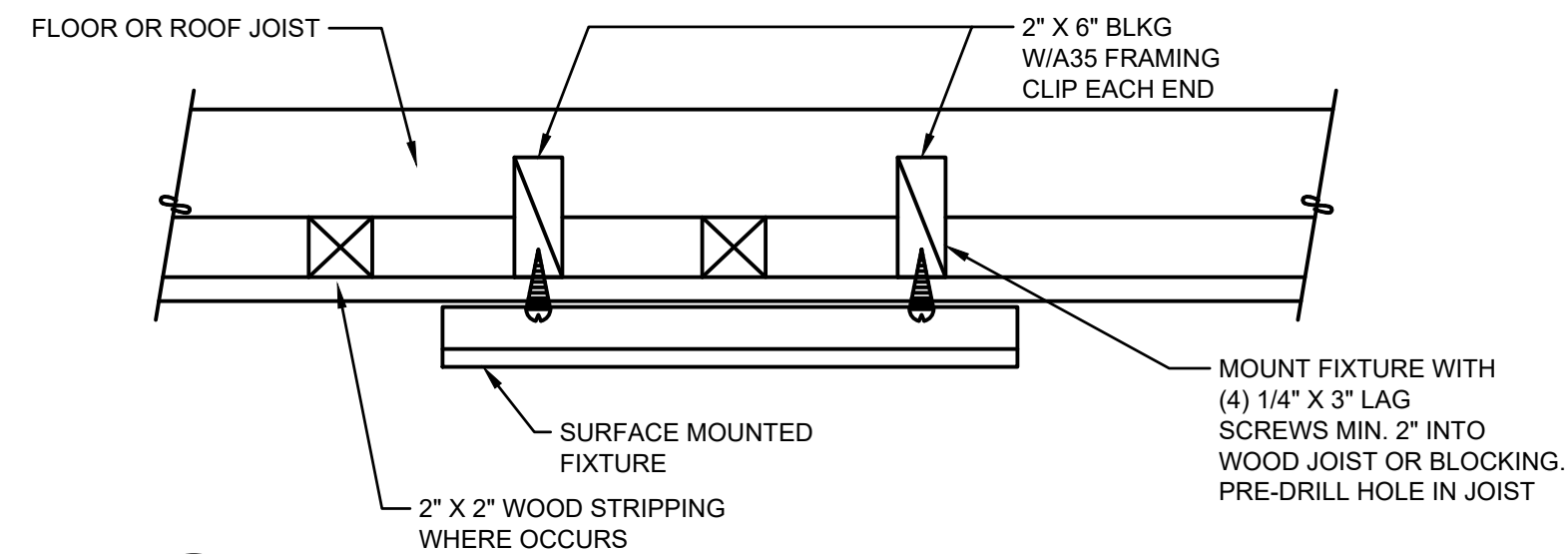


RECESSED FIXTURE MOUNTING DETAIL - T-BAR

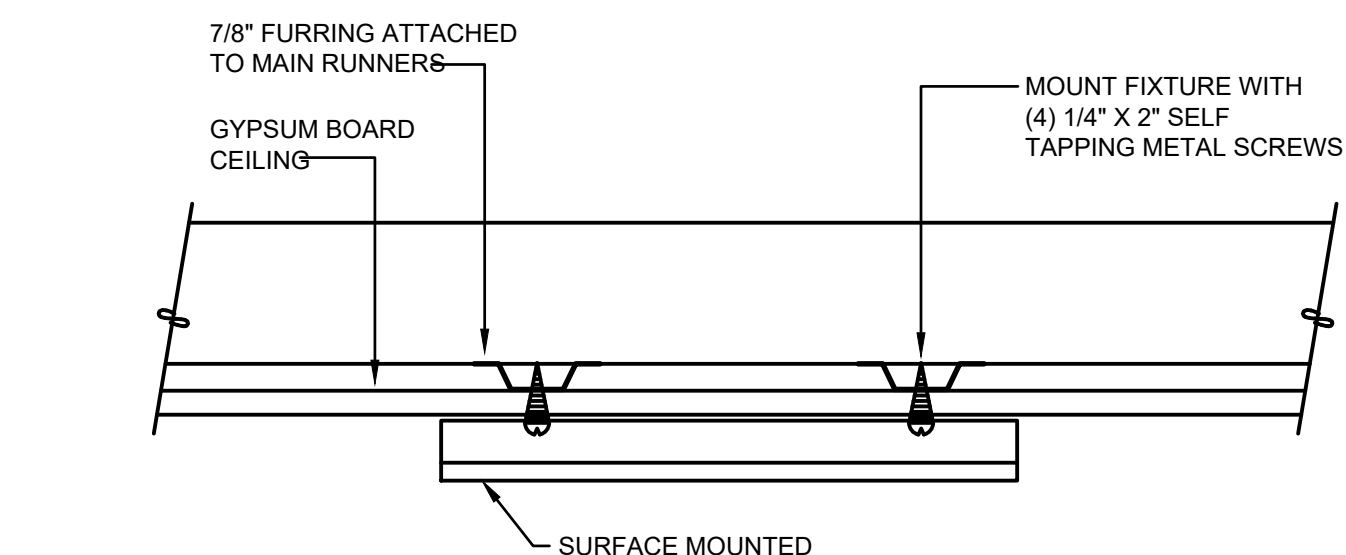
NTS 2



A WOOD STUD CEILINGS



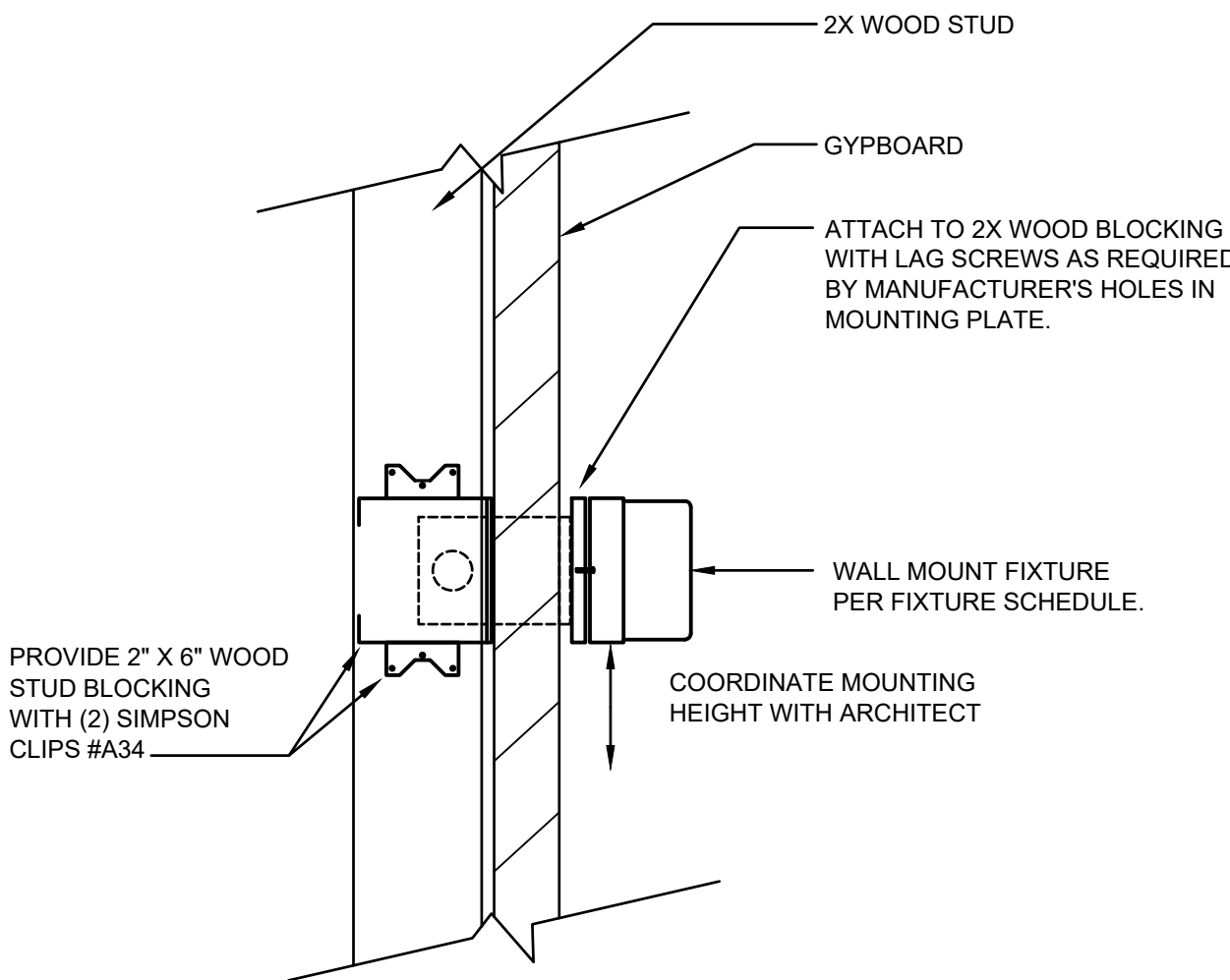
B WOOD STUD CEILINGS



C METAL STUD CEILINGS

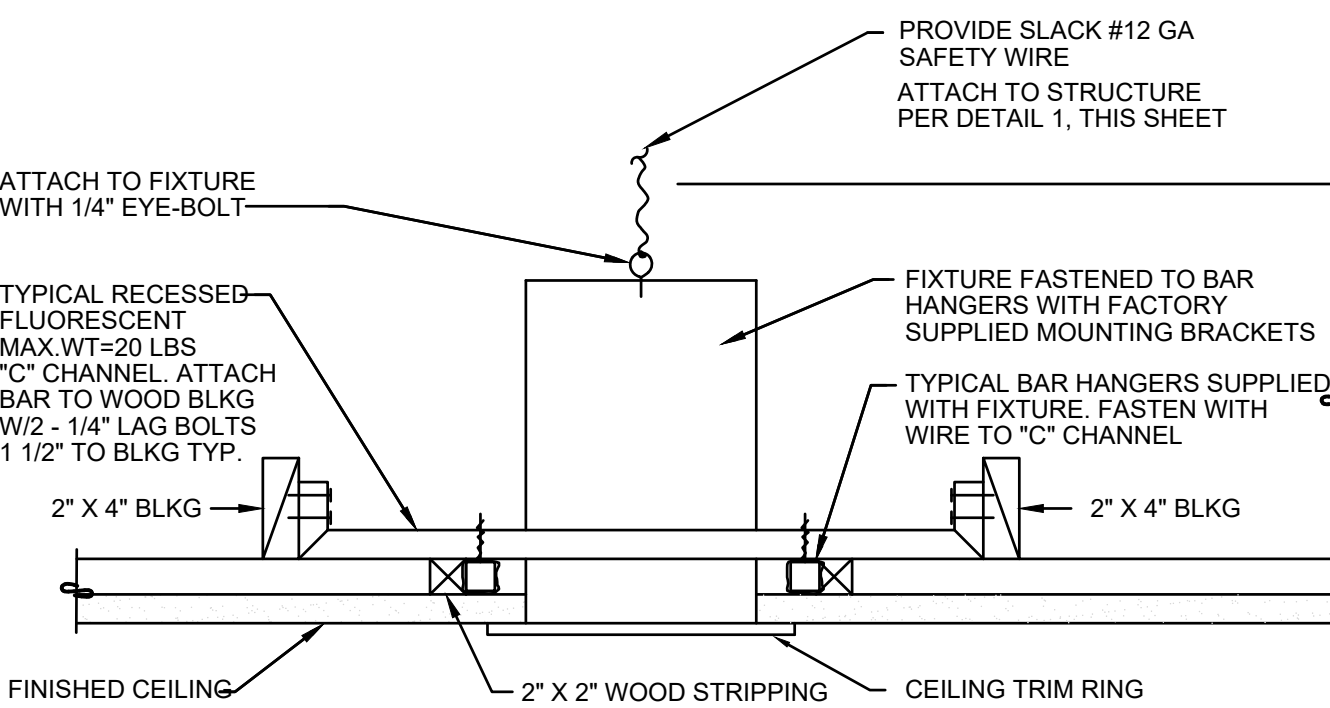
SURFACE MOUNT FIXTURE MOUNTING DETAIL

NTS 7



WALL MOUNTED FIXTURE MOUNTING DETAIL - WOOD

NTS 3



RECESSED FIXTURE MOUNTING DETAIL - GYP BOARD

NTS 4



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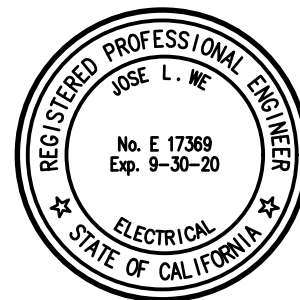
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HY ARCHITECTS JOB NUMBER 5241

Facility
WALNUT CREEK SCHOOL DISTRICT
2425 WALNUT BOULEVARD, WALNUT
CREEK, CA 94597

Project
**MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III**

Sheet Title
ELECTRICAL DETAILS

Client Project Number: Client Proj. #

Scale: AS NOTED

Drawn By: DAM

Checked By: TLK

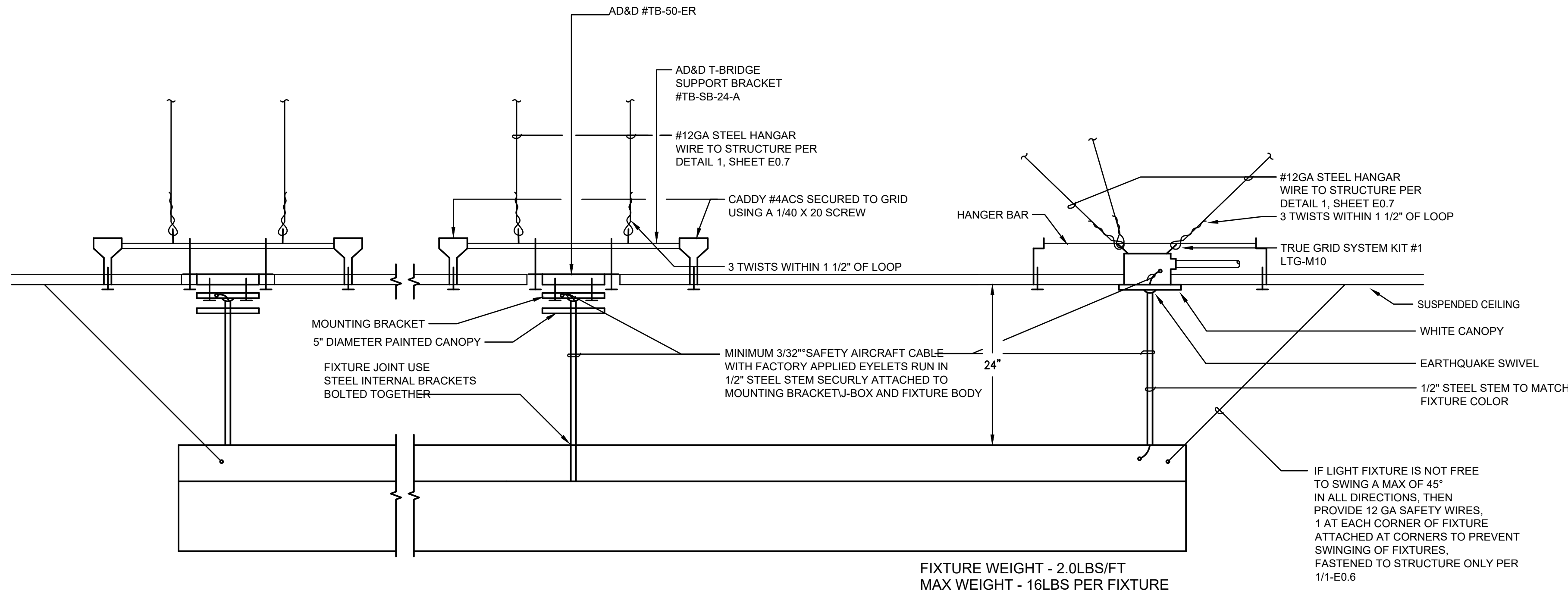
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Sheet 75 of 95

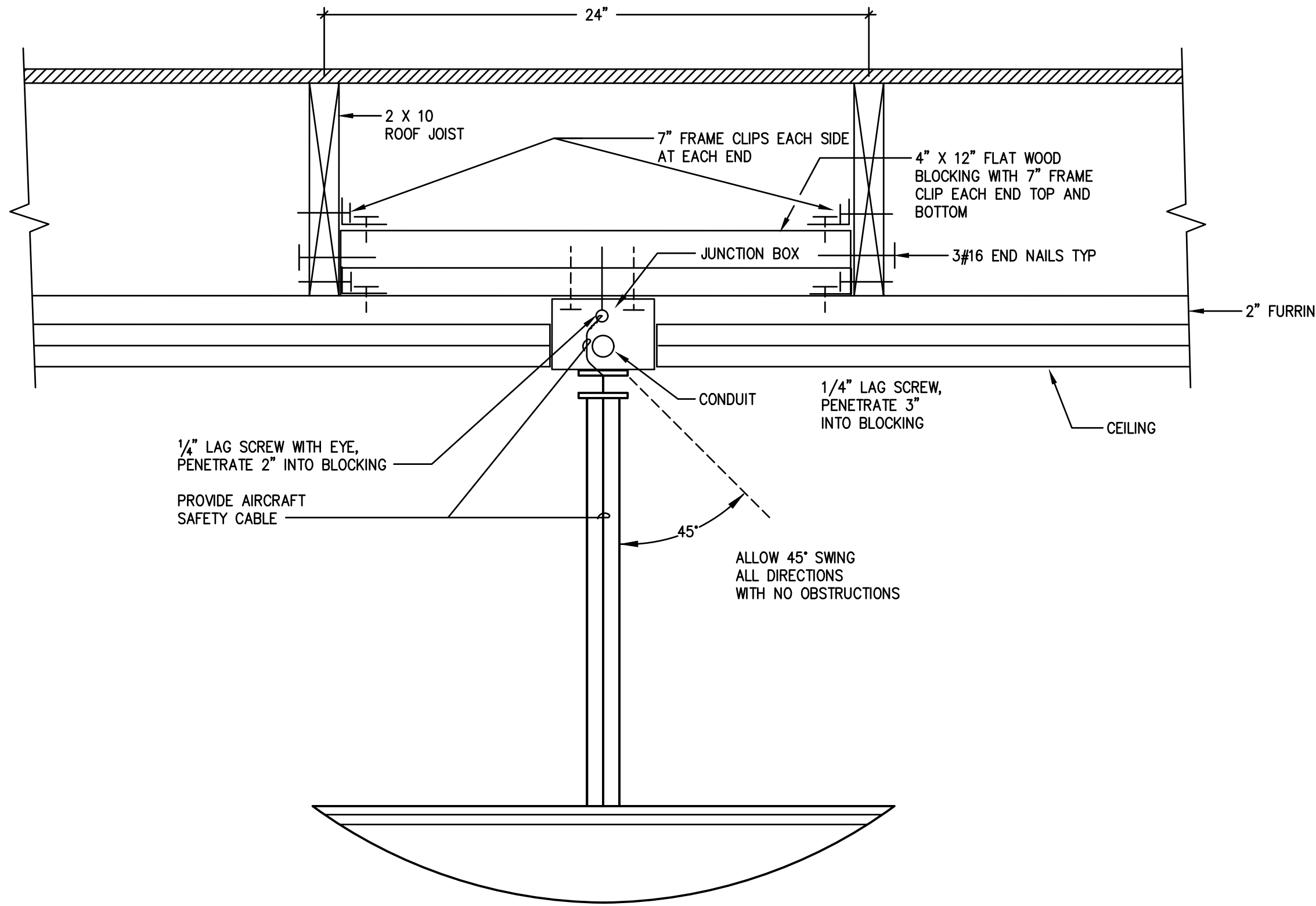


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8 SUSPENDED FIXTURE MOUNTING DETAIL - T-BAR CEILING
NOT TO SCALE

SUSPENDED FIXTURE MOUNTING DETAIL - T-BAR NTS 3



PENDANT MOUNTED FIXTURE DETAIL - MULTI-USE NTS 2



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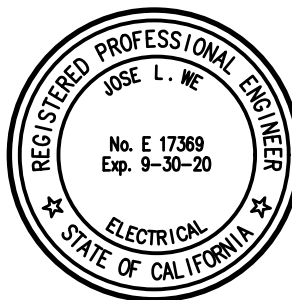
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2425 WALNUT BOULEVARD, WALNUT
CREEK, CA 94597

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RECONFIGURATION PROJECT
INCREMENT III**

Sheet Title
ELECTRICAL DETAILS

Client Project Number: Client Proj. #

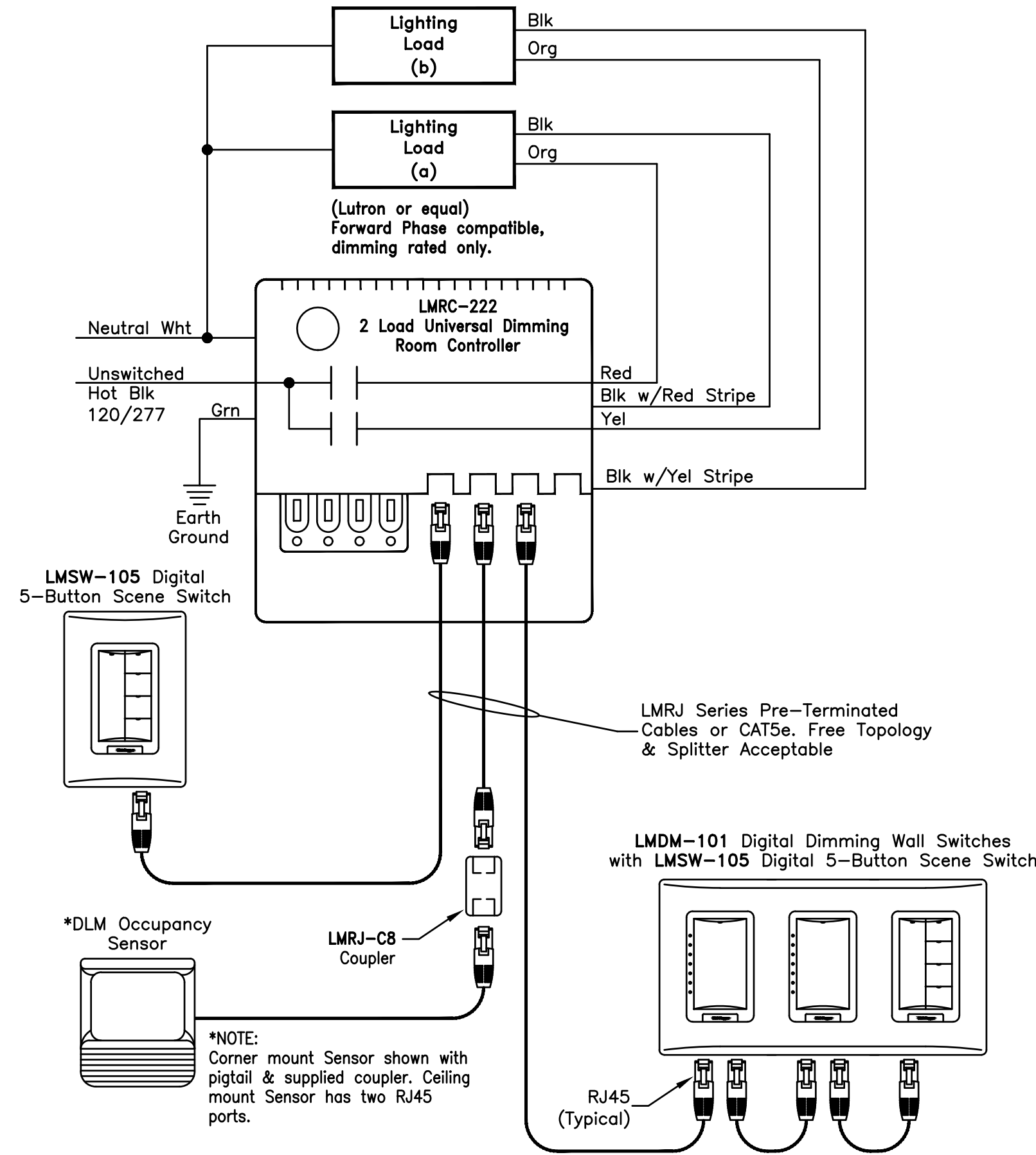
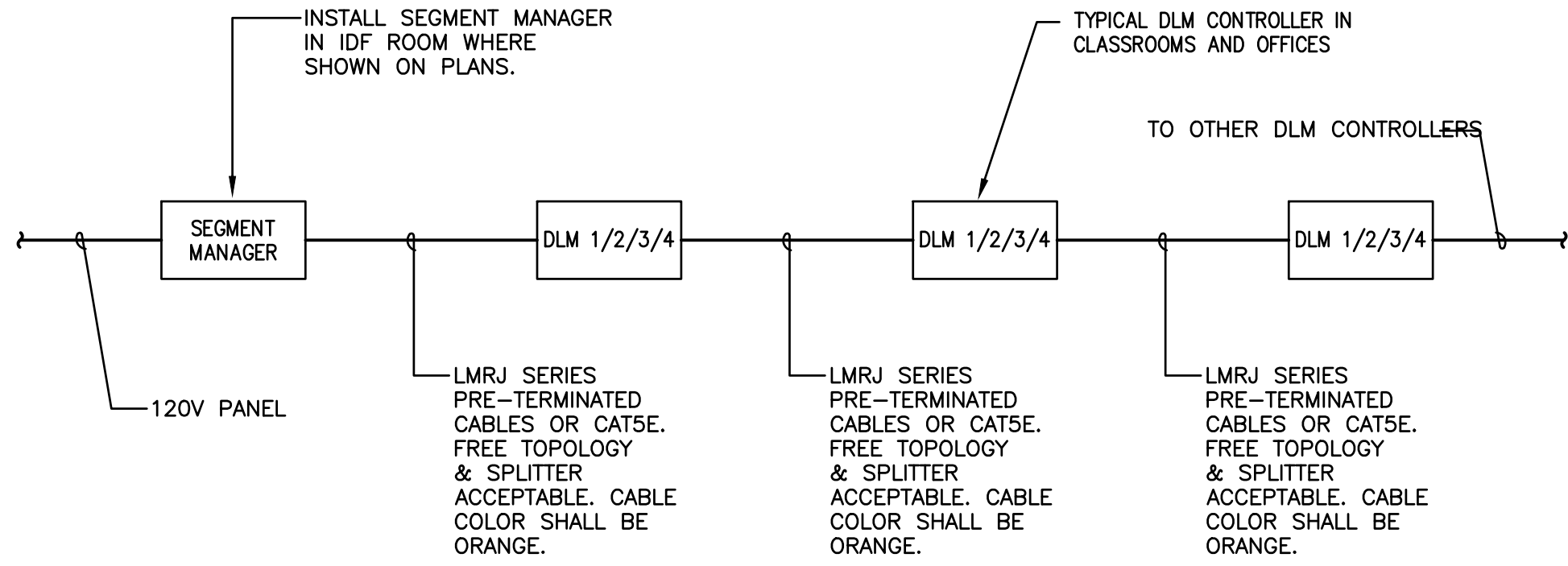
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DEVICES ARE PRESET FOR PLUG n' GO™ OPERATION. ADJUSTMENT IS OPTIONAL. Sequence of Operation: In this configuration the LMRC-222 defaults to multi-level automatic-on/automatic-off operation. Load (a) on the LMRC-222 turns on automatically, while Load (b) defaults to manual-on control; all relays turn off automatically. Enhanced room controllers support up to 64 loads and 48 devices per DLM local network. At system startup, default dimming parameters are established including: levels for presets 1-4; fade times; and fade and ramp rates. Dimming and system parameters may be customized. For full operational details, adjustments and more features of the product, see the DLM System Installation Guide at www.wattstopper.com

LMRC-222 Two Load Universal Dimming Room Controller (3 Wire)

DLM3

OVERALL LOW VOLTAGE WIRING DIAGRAM

NTS 3

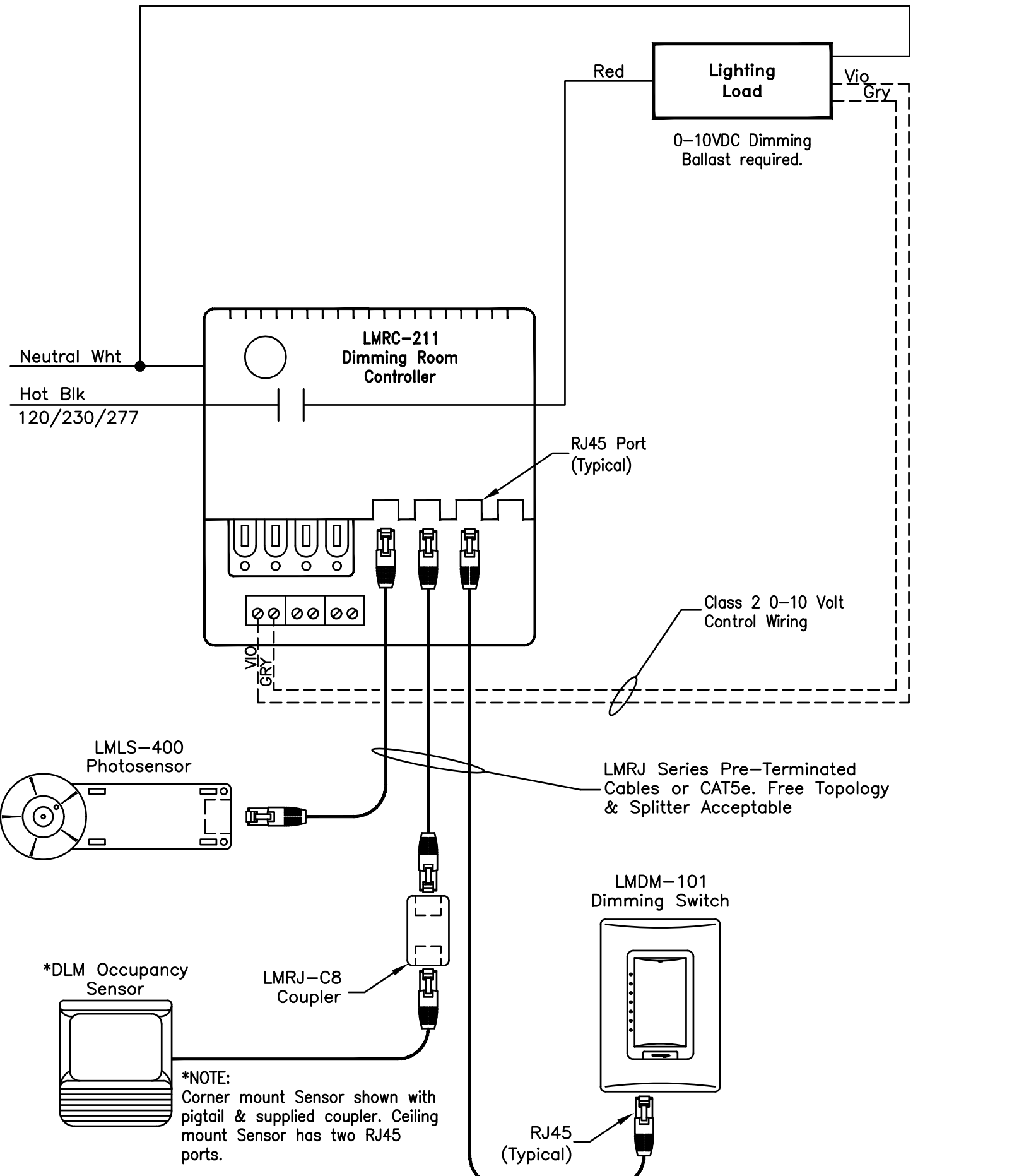
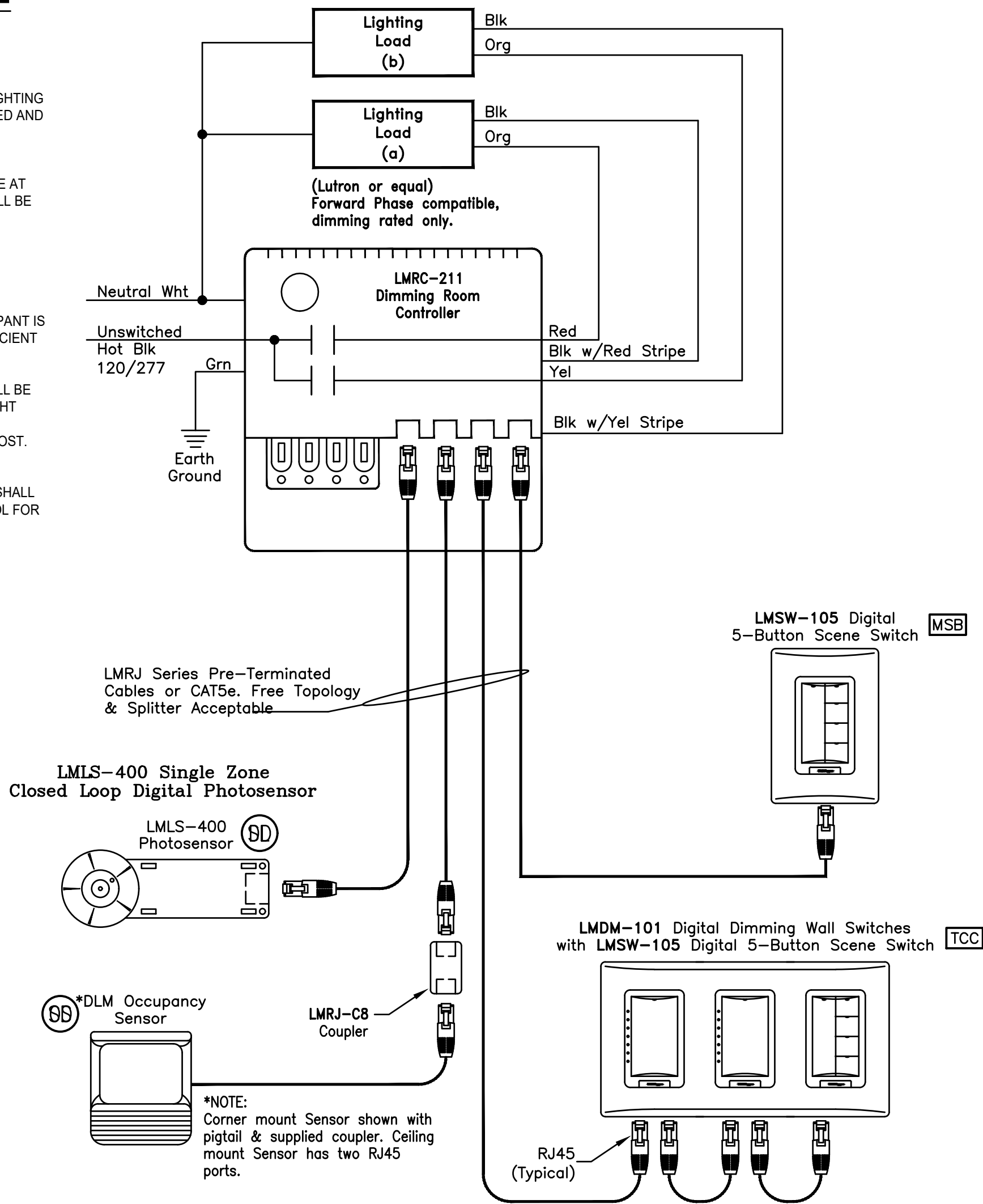
LIGHTING CONTROL WIRING DIAGRAM - NO DAYLIGHTING

NTS 1

TYPICAL CLASSROOM LIGHTING CONTROL

1. EACH CLASSROOM IS TO BE PROVIDED WITH (2) OR (3) ROWS OF DIMMABLE LUMINAIRES AND WHITEBOARD LUMINAIRES.
2. FIXTURES UTILIZE LED DIMMING FOR GENERAL LIGHTING AND FOR 'AV' MODE OPERATION. THE AUTOMATIC LIGHTING CONTROLS INCLUDE INTEGRAL OCCUPANCY SENSORS THAT TURN ON AND OFF WHEN OCCUPANT IS DETECTED AND INTEGRAL CONTINUOUS DAYLIGHTING CONTROLS THAT AUTOMATICALLY DIM THE LIGHTS WHEN SUFFICIENT NATURAL DAYLIGHT IS MORE THAN THE FOOTCANDLE SET POINT.
3. FIXTURES CAN BE MANUALLY CONTROLLED WHEN ROOM IS OCCUPIED FOR GENERAL LIGHTING AND 'AV' MODE AT THE MAIN SWITCH BANK(MSB) AT THE MAIN ENTRANCE AND AT THE TEACHER CONTROL CENTER(TCC). IT SHALL BE CAPABLE OF MANUALLY DIMMING THE FIXTURES AT ANYTIME.
4. GENERAL LIGHTING SHALL UTILIZE UP AND DOWN LIGHTING IN FIXTURES FOR MAXIMUM OUTPUT.
5. WHITEBOARD LUMINAIRES SHALL BE CONTROLLED BY THE 'TCC' AT THE FRONT OF THE CLASSROOM.
6. THE AUTOMATIC LIGHTING CONTROLS INCLUDE OCCUPANCY SENSORS THAT TURN ON AND OFF WHEN OCCUPANT IS DETECTED AND CONTINUOUS DAYLIGHTING CONTROLS THAT AUTOMATICALLY DIMM THE LIGHTS WHEN SUFFICIENT NATURAL DAYLIGHT IS MORE THAN THE FOOTCANDLE SET POINT.
7. FOOTCANDLE LEVEL SHALL BE SET BETWEEN 35-60 FC PER THE DISTRICT REQUIREMENTS. CALIBRATION SHALL BE ACCOMPLISHED WITHOUT A LADDER AND WITHOUT ANY SPECIAL EQUIPMENT OTHER THAN AN ACCURATE LIGHT METER. NIGHTTIME LEVELS SHALL CLOSELY MATCH THE DAYTIME SETPOINTS. FINAL CALIBRATION SHALL BE PROVIDED BY AN AUTHORIZED REPRESENTATIVE OF FINELITE INC AND SHALL BE INCLUDED IN THE SYSTEM COST. CLOSED-LOOP CONTINUOUS DIMMING FOR DAYLIGHTING AND AV CONTROL.
8. THE CONTINUOUS DAYLIGHT DIMMING(CDD) SHALL MEASURE LIGHT AT WORKPLANE WITHIN A 60° CONE AND SHALL MAINTAIN A CONSTANT LIGHT LEVEL. A MINUTE TIME CONSTANT SHALL PROVIDE JUMP-FREE LEVEL CONTROL FOR ENERGY USE REDUCTION WHENEVER DAYLIGHT IS PRESENT IN THE AREA LIGHTED BY EACH FIXTURE ROW.

DEVICES ARE PRESET FOR PLUG n' GO™ OPERATION. ADJUSTMENT IS OPTIONAL. Sequence of Operation: The LMLS-400 monitors the ambient light in the controlled space and works with the room controller(s) to maintain the design light level. WattStopper's exclusive control algorithm uses on/off or dimming setpoints and other control parameters to establish the correct light levels throughout the day regardless of changing daylight contribution. For full operational details, adjustments and more features of the product, see the DLM System Installation Guide at www.wattstopper.com



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LMLS-400 Single Zone Closed Loop Digital Photosensor

DLM1

CLASSROOM LIGHTING CONTROL WIRING DIAGRAM

NTS 4

LIGHTING CONTROL WIRING DIAGRAM - WITH DAYLIGHTING

NTS 2



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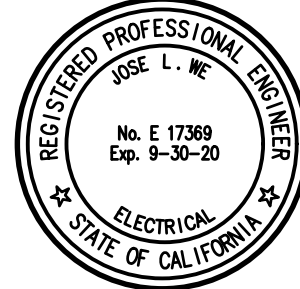
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HY ARCHITECTS JOB NUMBER 5241

Facility

WALNUT CREEK SCHOOL DISTRICT
2425 WALNUT BOULEVARD, WALNUT CREEK, CA 94597

Project

MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

Sheet Title

ELECTRICAL DETAILS

Client Project Number: Client Proj. #

Scale: AS NOTED

Drawn By: DAM

Checked By: TLK

Issue Date: 8/25/20

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Sheet 77 of 95



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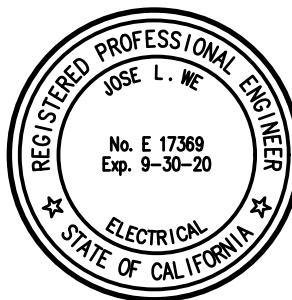
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Project

MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

Sheet Title
ELECTRICAL TITLE 24
POWER

Client Project Number:	Client Proj.
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Project Name: WALNUT CREEK INTERMEDIATE SCHOOL, INC. 3 Date Prepared: 01-31-20

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

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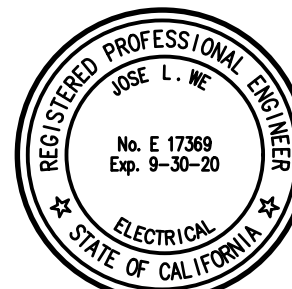
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Project
MODERNIZATION AND RECONFIGURATION PROJECT
INCREMENT III

Sheet Title
ELECTRICAL TITLE 24
INTERIOR LIGHTING

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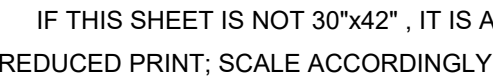
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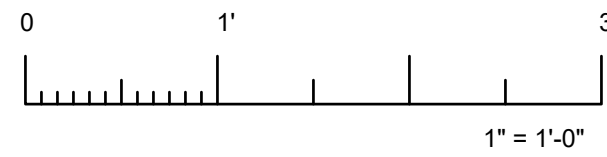
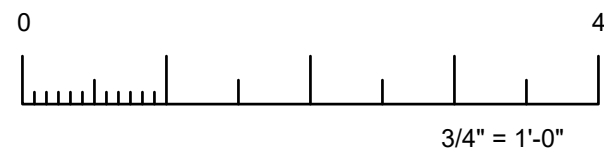
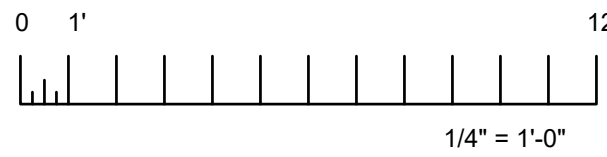
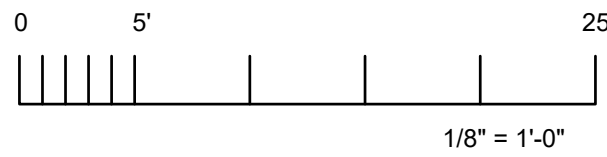
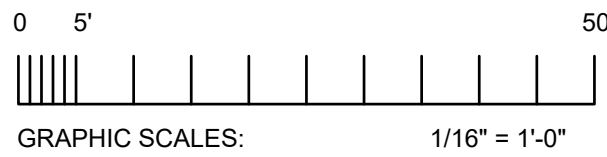
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MODERNIZATION AND
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INCREMENT III

Sheet Title

ELECTRICAL TITLE 24
EXTERIOR LIGHTING

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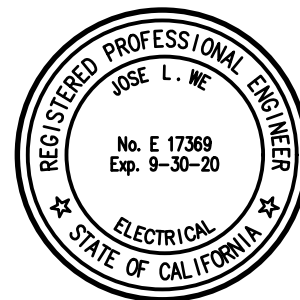
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Project
**MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III**

Sheet Title
**ELECTRICAL EXISTING SITE
LIGHTING AND POWER PLAN**

Client Project Number: Client Proj. #

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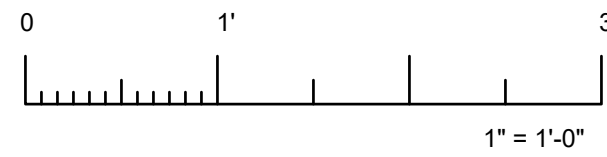
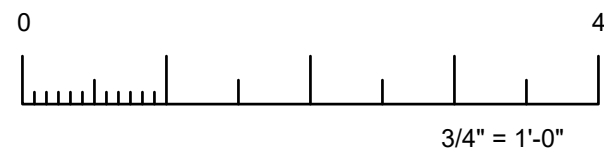
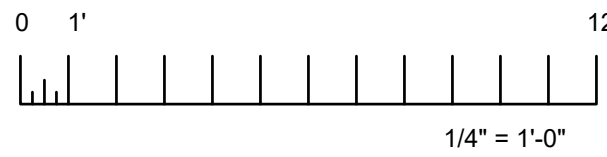
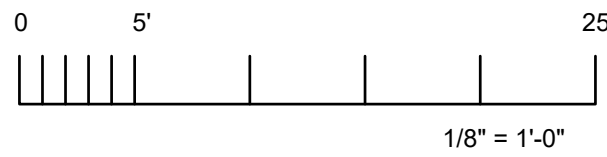
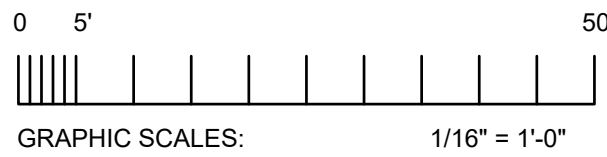
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ELECTRICAL EXISTING SITE LIGHTING AND POWER PLAN

1" = 40'-0"

1



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GENERAL NOTES

1.

SHEET NOTES

- EXTEND EXISTING LOW VOLTAGE CONDUITS TO NEW IDF ROOM.
- EXISTING FIBER OPTIC CABLE TO IDF 600 TO BE REPLACED WITH NEW.



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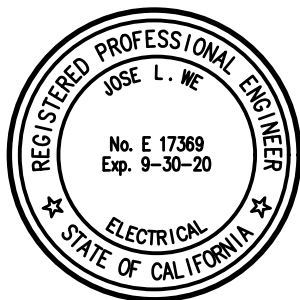
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Project
MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III

Sheet Title
ELECTRICAL EXISTING SITE
SIGNAL PLAN

Client Project Number: Client Proj. #

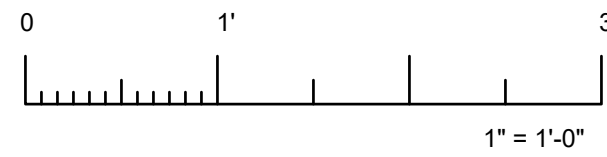
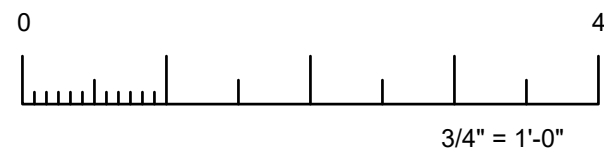
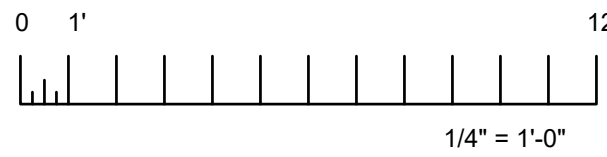
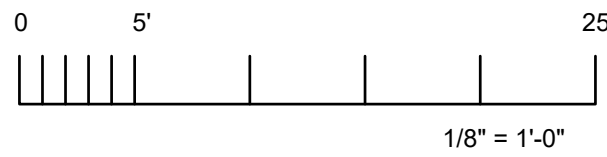
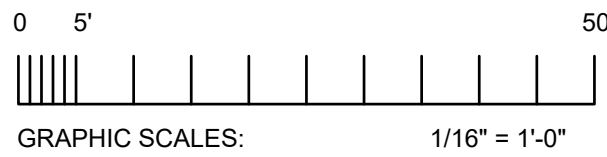
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ELECTRICAL EXISTING SITE SIGNAL PLAN

1" = 40'-0"

1



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GENERAL NOTES

1.

SHEET NOTES

- REPLACE EXISTING FIBER OPTIC CABLE TO BUILDING 600 WITH NEW.
- PROVIDE NEW 2" CONDUIT AND FIBER OPTIC CABLE FROM NEW IDF 600 TO KITCHEN IDF.
- PULL NEW FIRE ALARM CABLE IN EXISTING CONDUIT.



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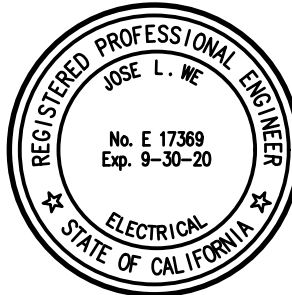
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HY ARCHITECTS JOB NUMBER 5241

Facility

WALNUT CREEK SCHOOL DISTRICT
2425 WALNUT BOULEVARD, WALNUT
CREEK, CA 94597

Project

MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III

Sheet Title

ELECTRICAL REVISED SITE
SIGNAL PLAN

Client Project Number:

Client Proj. #

Scale: AS NOTED

Sheet

Drawn By: DAM

Checked By: TLK

Issue Date: 8/25/20

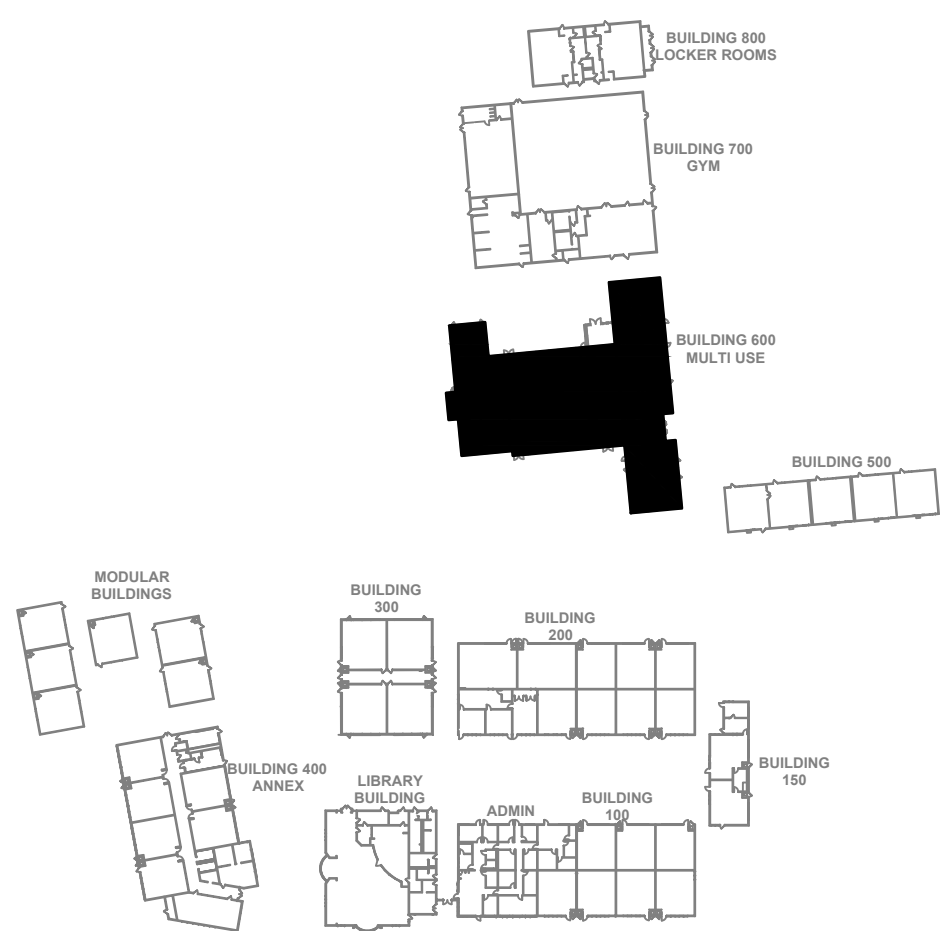
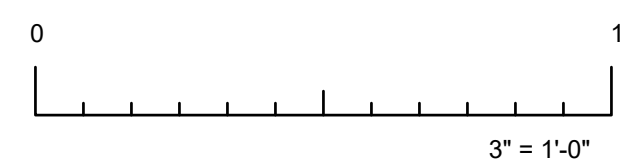
E1.04Sc

Sheet 83 of 95

ELECTRICAL REVISED SITE SIGNAL PLAN

1" = 40'-0"

1



1. ALL LIGHT FIXTURES AND CONTROLS ARE TO REMAIN, U.O.N.

- 1 ALL LIGHT FIXTURES, SWITCHES AND CONTROLS IN THIS AREA ARE TO BE REPLACED WITH NEW. U.O.N.



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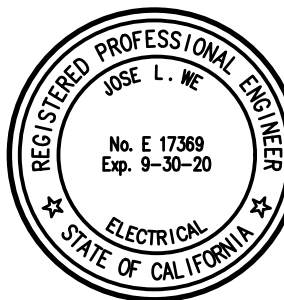
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Facility

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Project

MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

Sheet Title

ELECTRICAL DEMOLITION
LIGHTING PLAN
BUILDING 600

Client Project Number:	
------------------------	--

Client Proj

Scale: AS NOTED

Drawn By: DAM

Checked By: TUK

E2.08c

Sheet 84 of 95

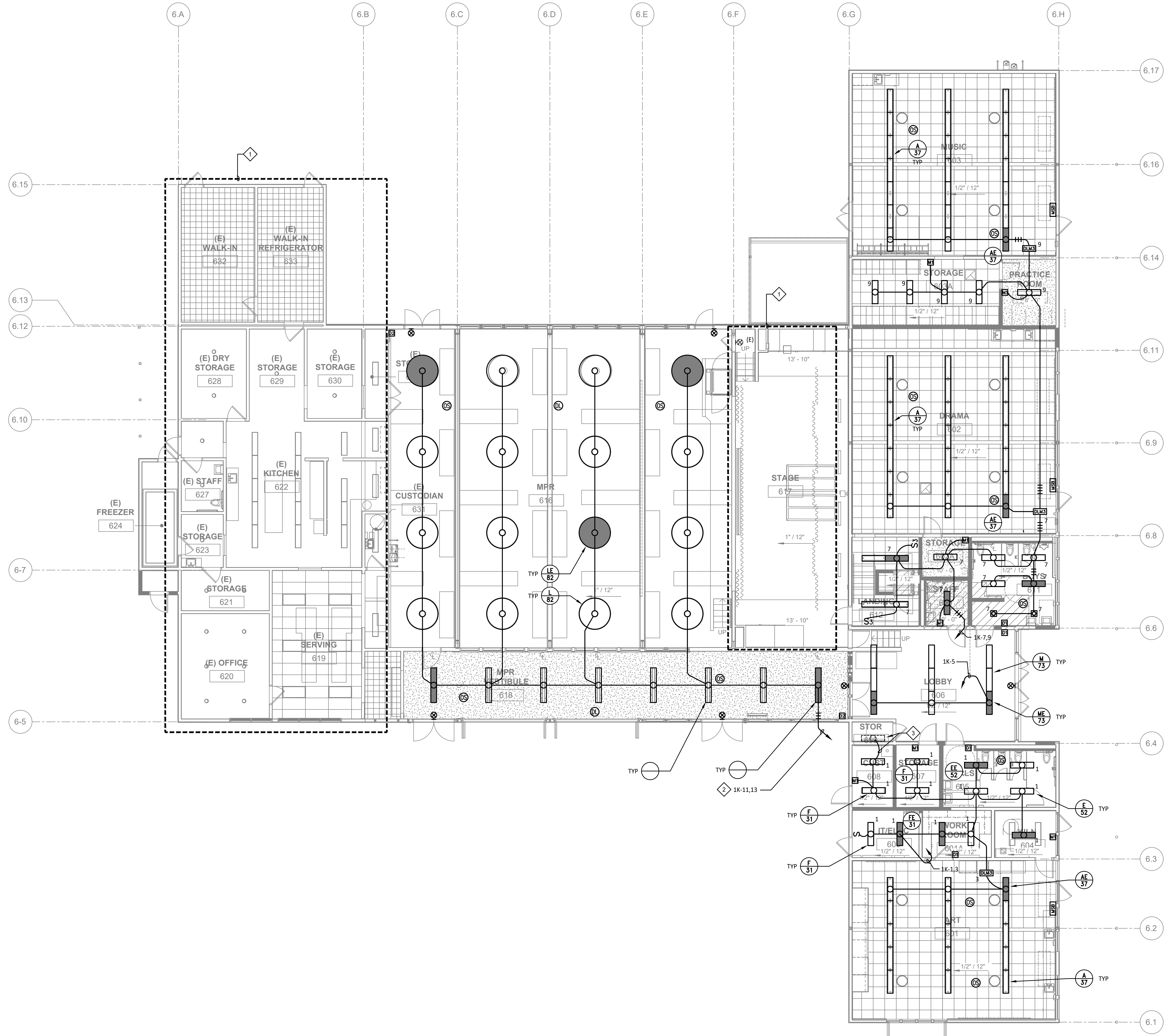
ELECTRICAL DEMOLITION LIGHTING PLAN - BUILDING 600

$$1/8'' = 1'-0''$$

1



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GENERAL NOTES

- ALL LIGHT FIXTURES AND CONTROLS ARE TO REMAIN, U.O.N.

SHEET NOTES

- EXISTING LIGHTING AND CONTROLS IN THIS AREA TO REMAIN.
- CONNECT NEW FIXTURES TO EXISTING CIRCUITS.
- RECONNECT EXISTING LIGHT FIXTURE TO NEW CIRCUITING.



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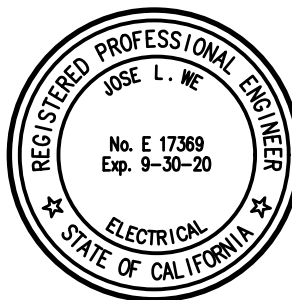
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Project

**MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III**

Sheet Title

**ELECTRICAL REVISED LIGHTING
PLAN
BUILDING 600**

Client Project Number:

Client Proj. #

Scale: AS NOTED

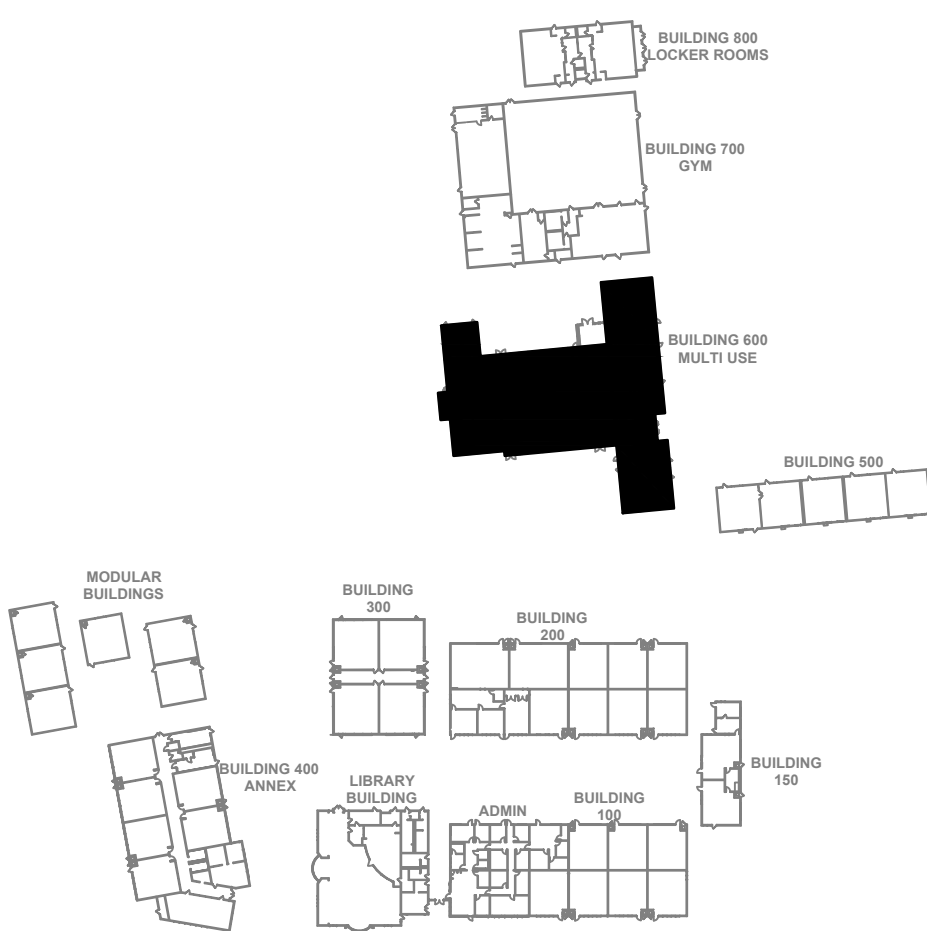
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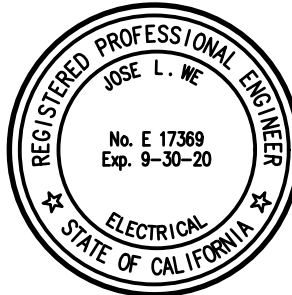
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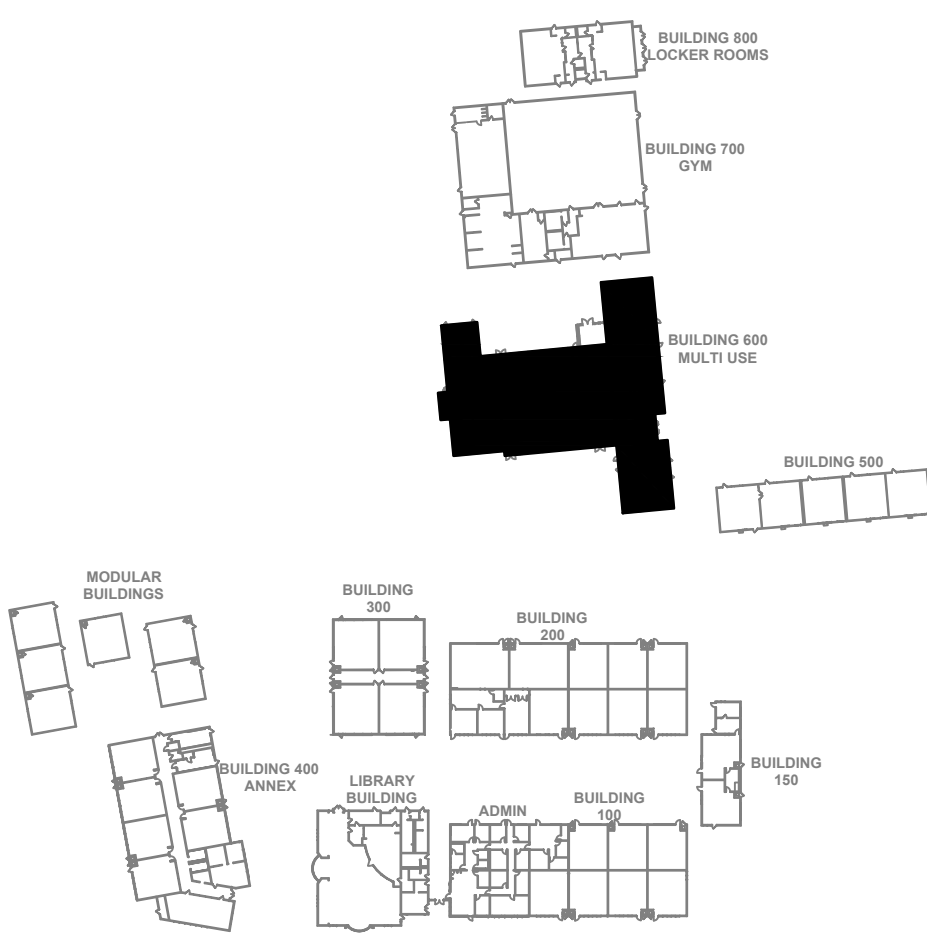
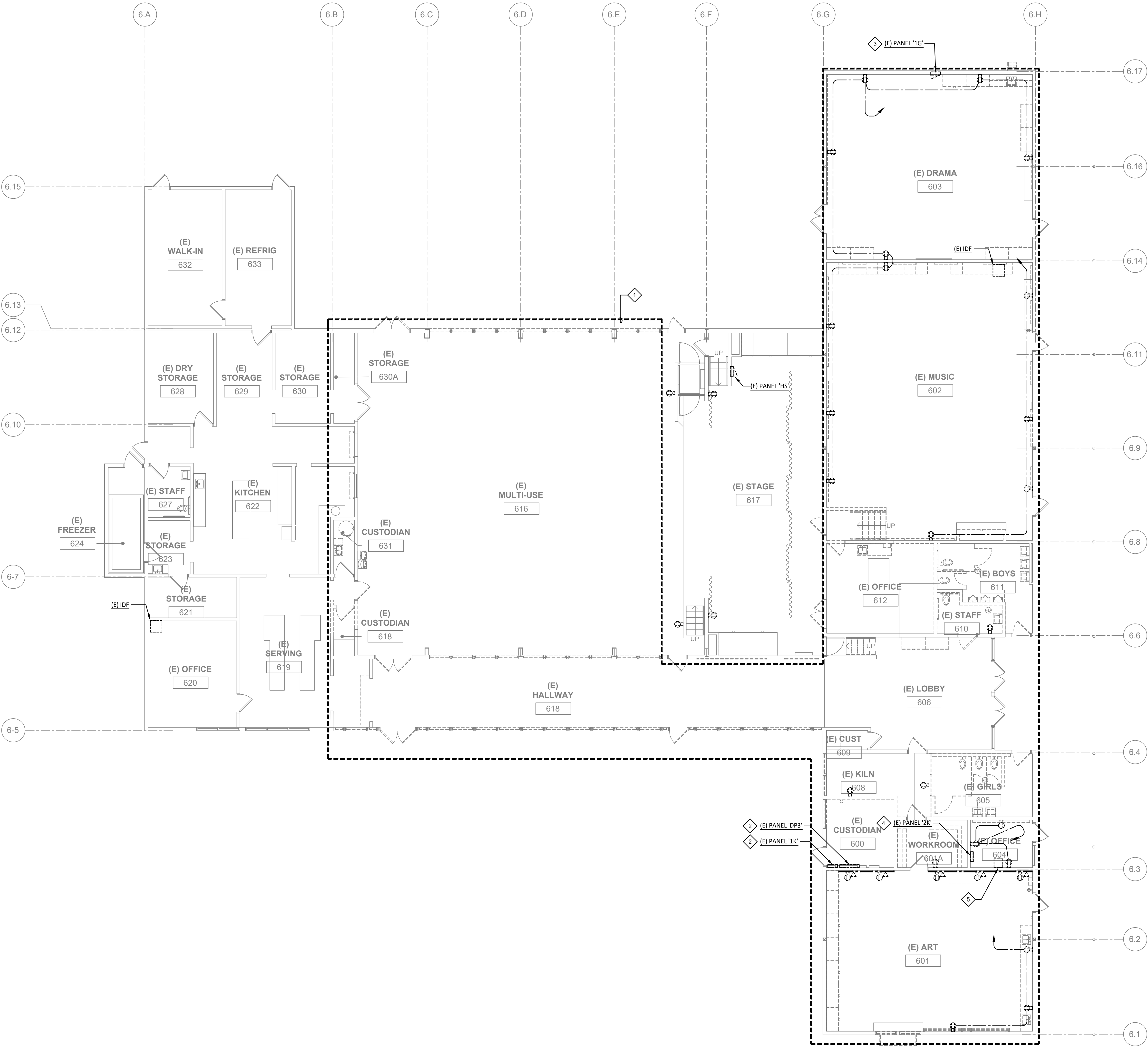
Project
**MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III**

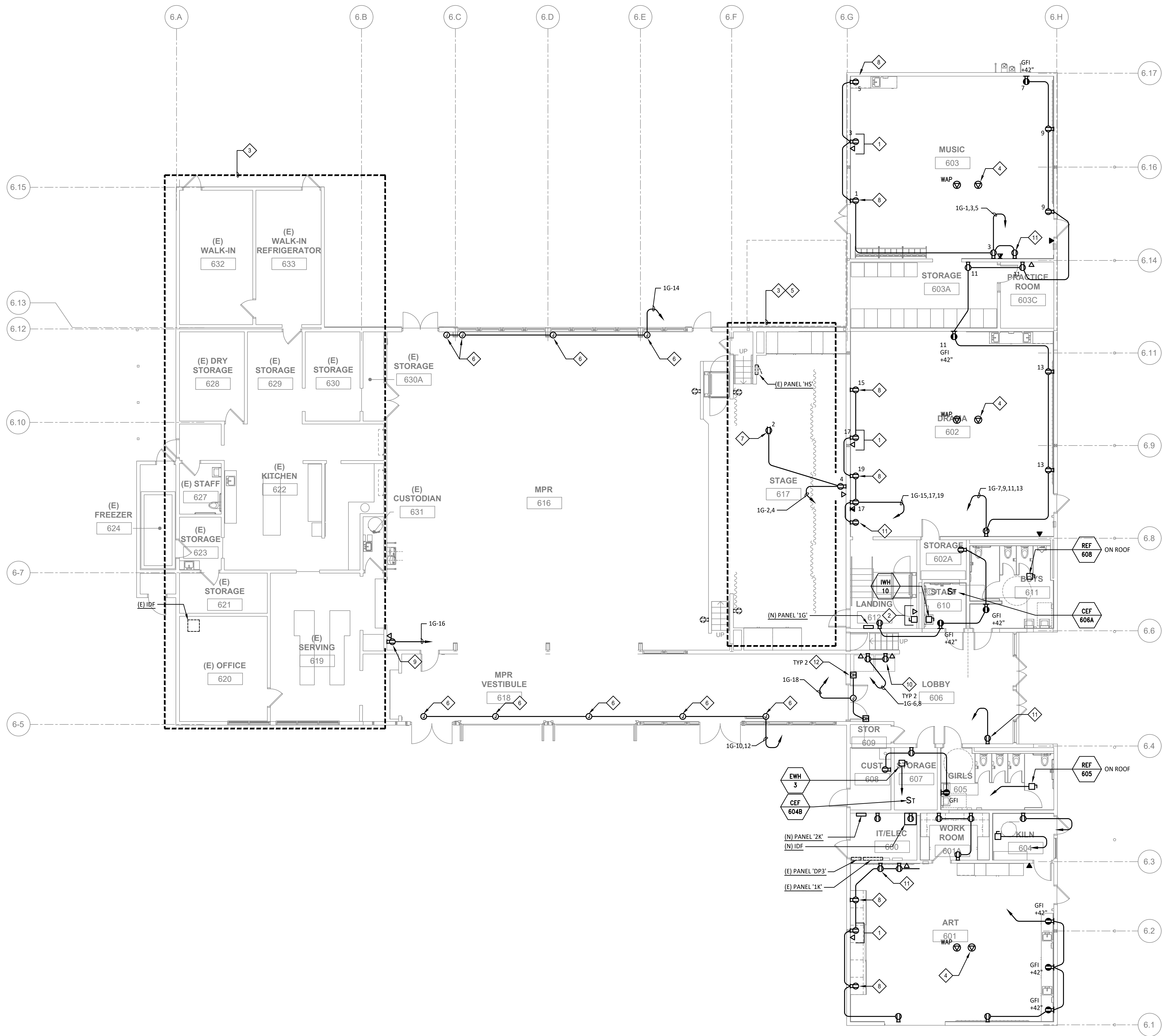
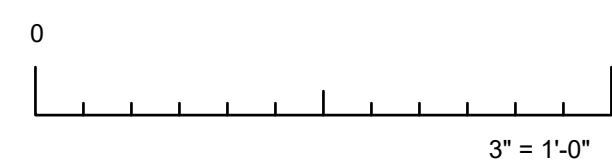
Sheet Title
**ELECTRICAL DEMOLITION POWER
AND DATA PLAN
BUILDING 600**

Client Project Number: Client Proj. #

Scale: AS NOTED
Drawn By: DAM
Checked By: TLK
Issue Date: 8/25/20

Sheet
E3.09c
Sheet 86 of 95





GENERAL NOTES

1. ALL POWER, DATA, CLOCK/PAGING, INTRUSION ALARM AND FIRE ALARM SYSTEMS IN THESE BUILDINGS ARE TO BE REPLACED WITH NEW.

SHEET NOTES

- 1 POWER AND DATA IN TEACHING CABINET FOR PRINTER.
- 2 POWER AND TELEPHONE FOR LIFT.
- 3 EXISTING POWER AND DATA IN THIS AREA TO REMAIN.
- 4 (2) 20' CAT 6 COILS FOR FUTURE.
- 5 PROVIDE INFRASTRUCTURE FOR NEW AV SYSTEM TO INCLUDE CONDUIT AND BOXES FOR SPEAKERS IN MPR SPACE, PROJECTOR, PROJECTION SCREEN. ALSO PROVIDE FOR NEW AV CABINET ON STAGE FOR CONTROLS OF SYSTEM.
- 6 PROVIDE POWER FOR MECHOSHADES.
- 7 PROVIDE POWER FOR PROJECTION SCREEN.
- 8 DEDICATED POWER FOR CHARGING CART IN CABINET.
- 9 POWER AND DATA FOR MENU BOARD AT +5'-0" AFF.
- 10 POWER AND DATA FOR VENDING.
- 11 POWER FOR MONITOR AT +5'-0".
- 12 PROVIDE 120V POWER FOR DOOR HOLDERS.



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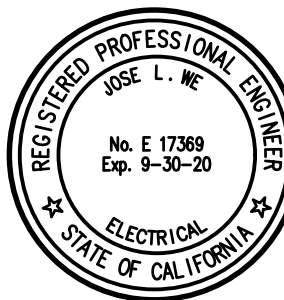
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Project

MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

Sheet Title

ELECTRICAL REVISED POWER AND
DATA PLAN
BUILDING 600

Client Project Number:	
------------------------	--

Client Proj

Scale: AS NOTED

DAM

Checked By: TUK

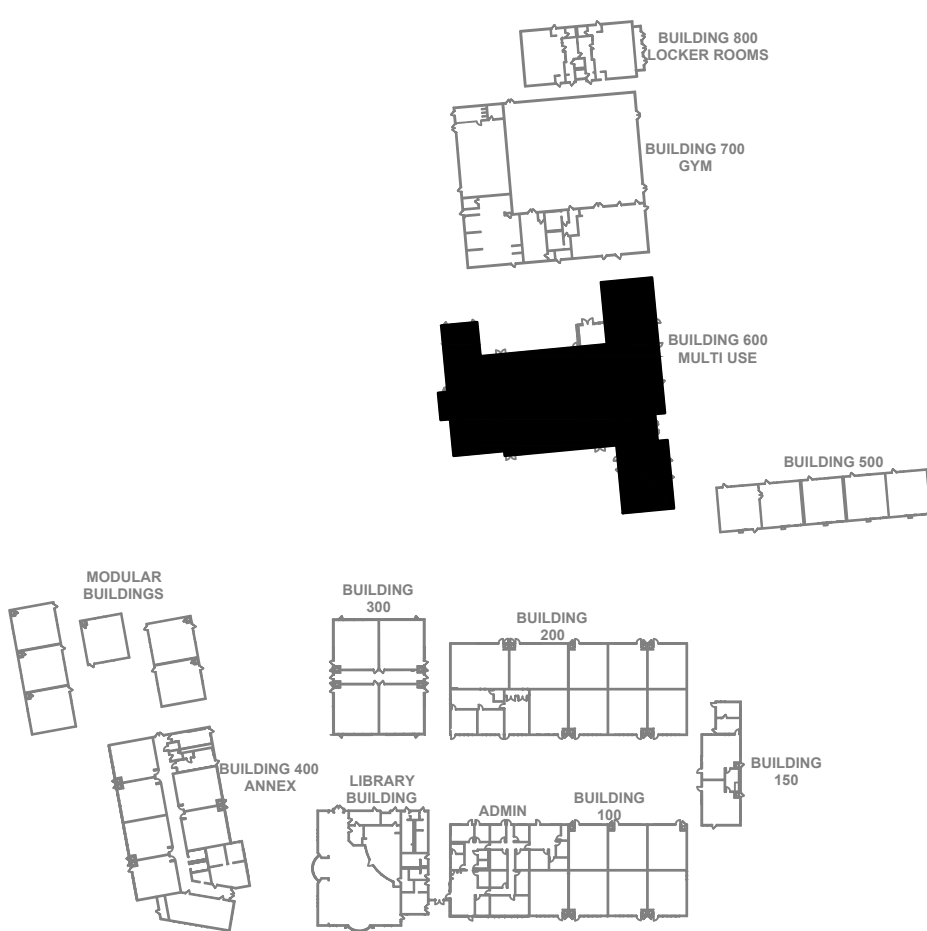
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ELECTRICAL REVISED POWER AND DATA PLAN - BUILDING 600

$$1/8'' = 1'-0''$$

1





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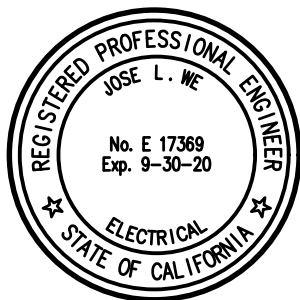
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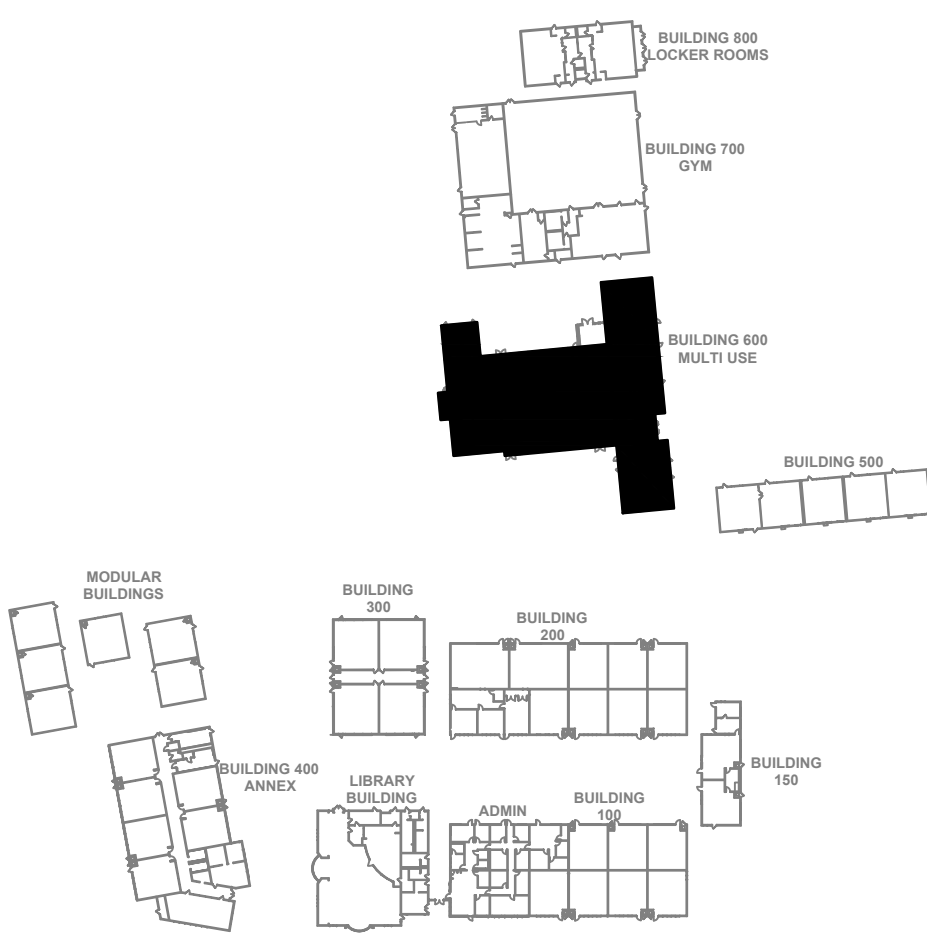
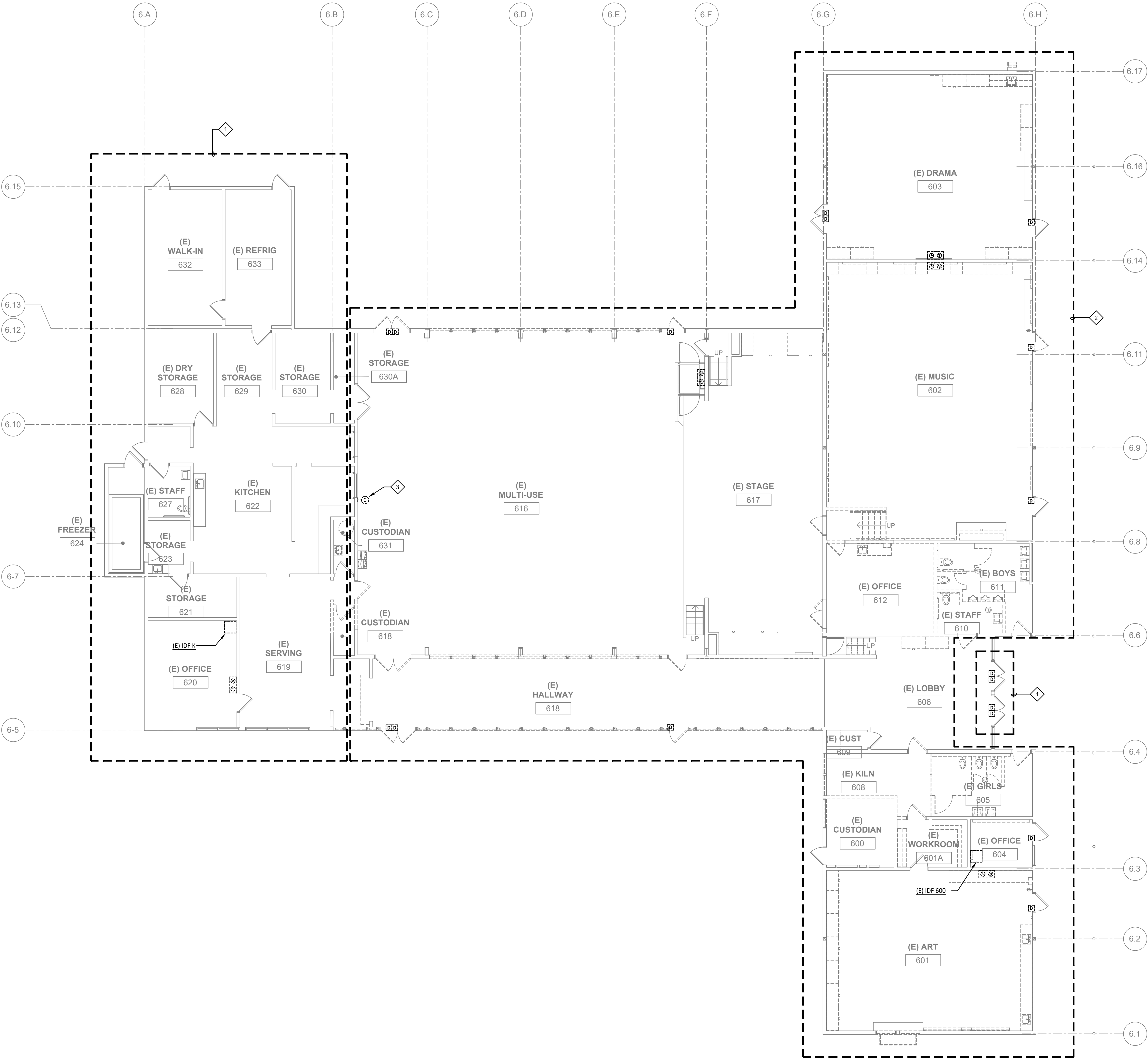
Project
**MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III**

Sheet Title
**ELECTRICAL DEMOLITION SIGNAL
PLAN
BUILDING 600**

Client Project Number: Client Proj. #

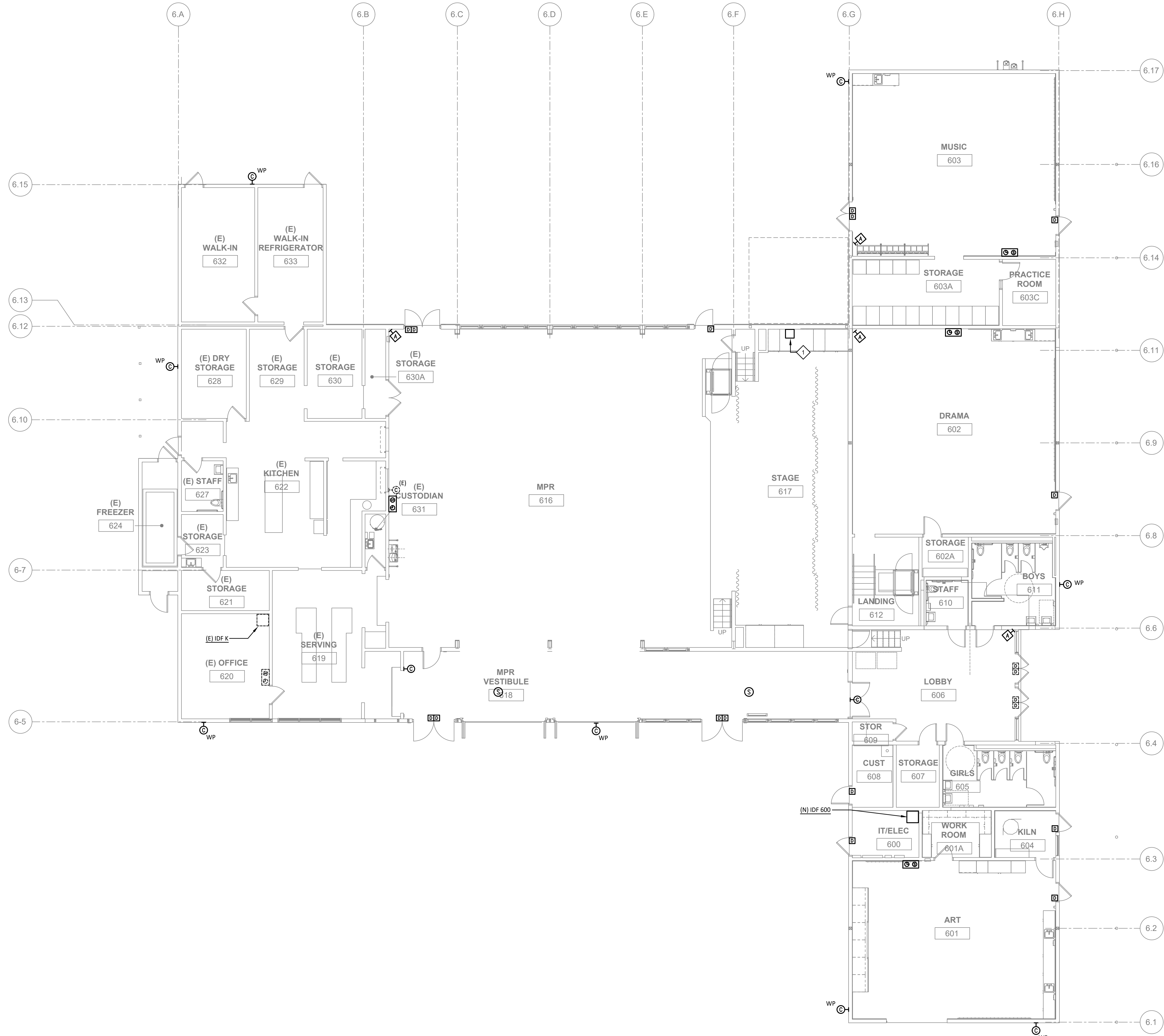
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GENERAL NOTES

- SEE WIRING DIAGRAMS FOR CABLING REQUIREMENTS.

SHEET NOTES

- ◇ PROVIDE NEW AUDIO/VISUAL CONTROLS IN EXISTING CABINET,



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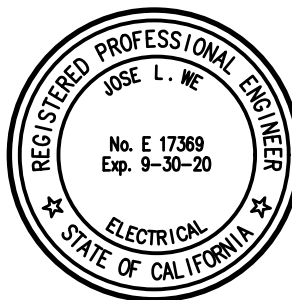
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Project

MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

Sheet Title

ELECTRICAL REVISED SIGNAL PLAN BUILDING 600

Client Project Number: Client Proj. #

Scale: AS NOTED

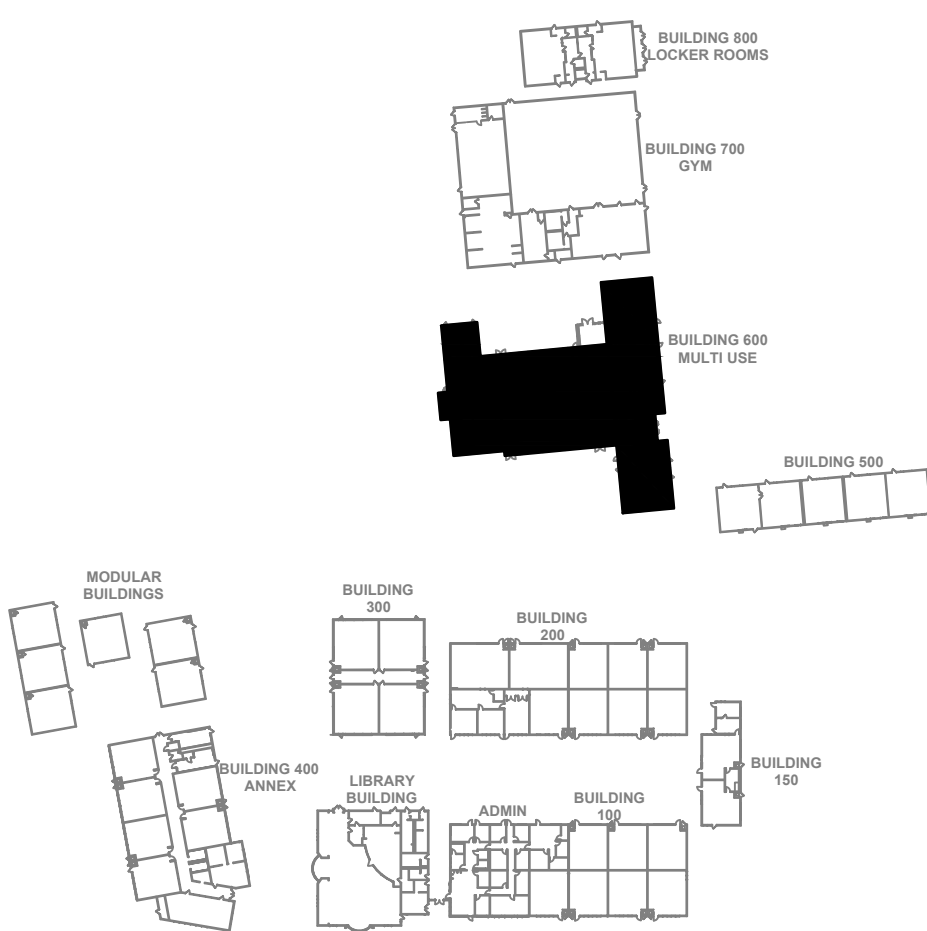
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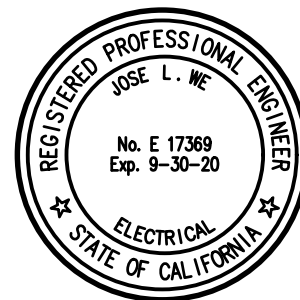
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2425 WALNUT BOULEVARD, WALNUT
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Project
**MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III**

Sheet Title
**ELECTRICAL DEMOLITION FIRE
ALARM PLAN
BUILDING 600**

Client Project Number: Client Proj. #

Scale: AS NOTED

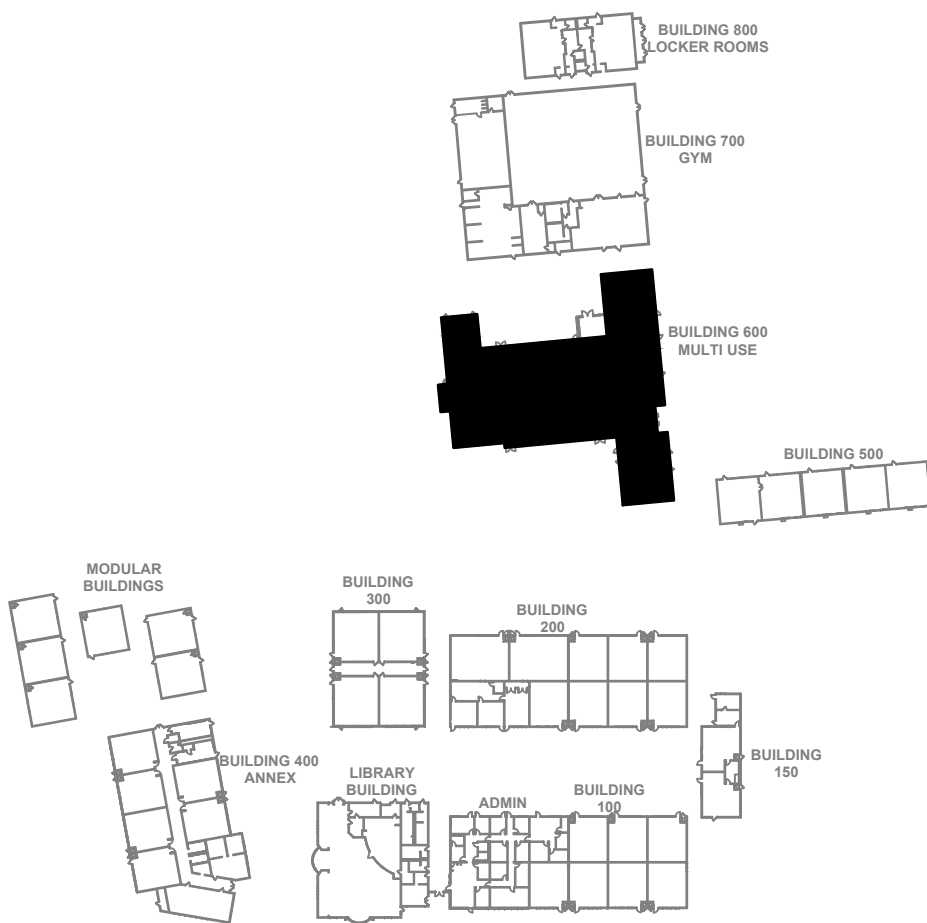
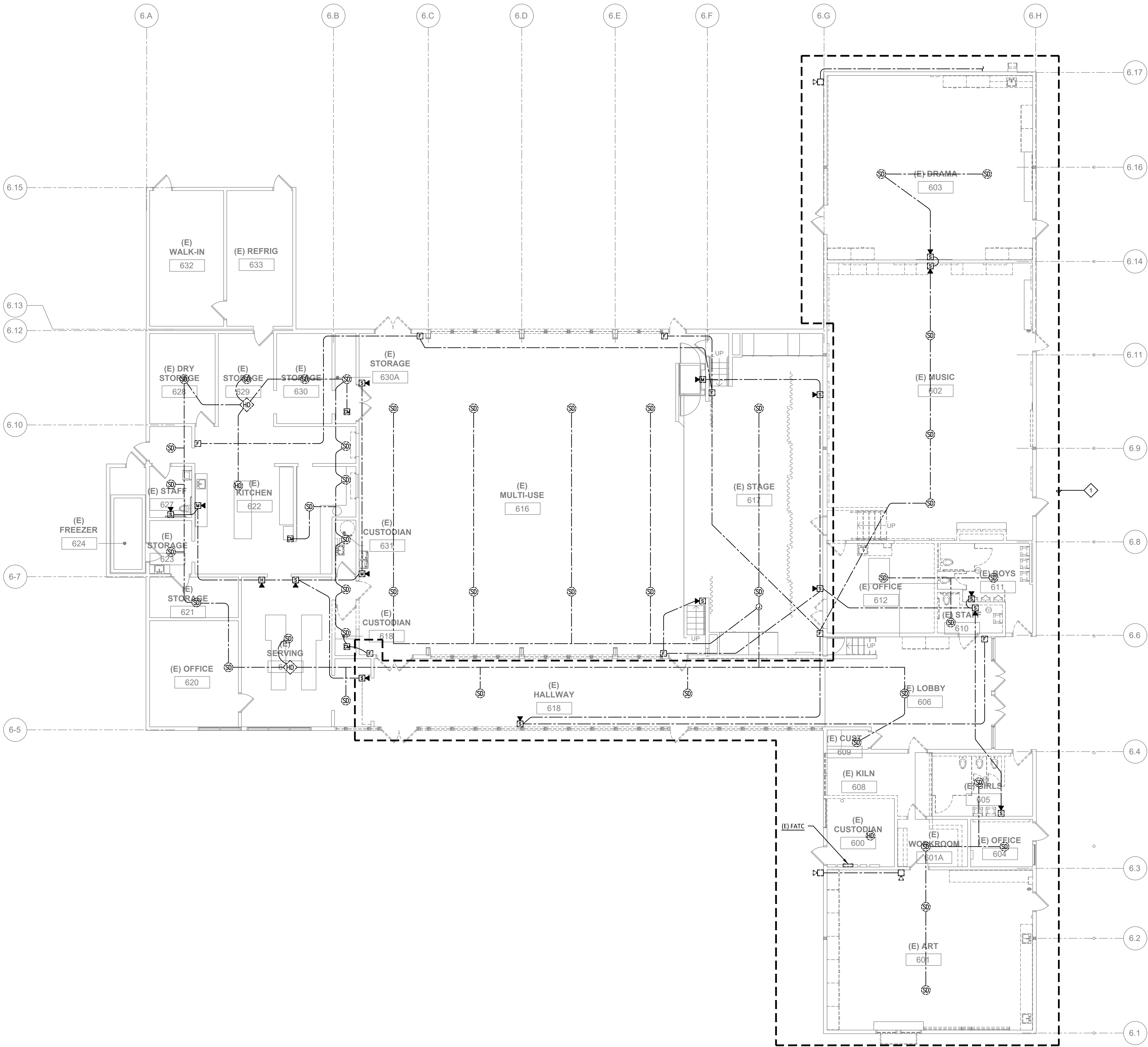
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GENERAL NOTES

- ALL FIRE ALARM DEVICES, SURFACE RACEWAY AND WIRING TO BE REMOVED.



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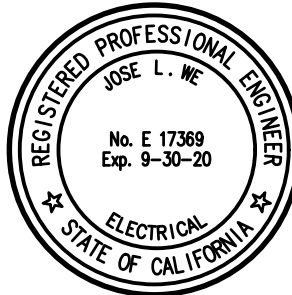
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Project
**MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III**

Sheet Title
**ELECTRICAL REVISED FIRE ALARM
PLAN
BUILDING 600**

Client Project Number: Client Proj. #

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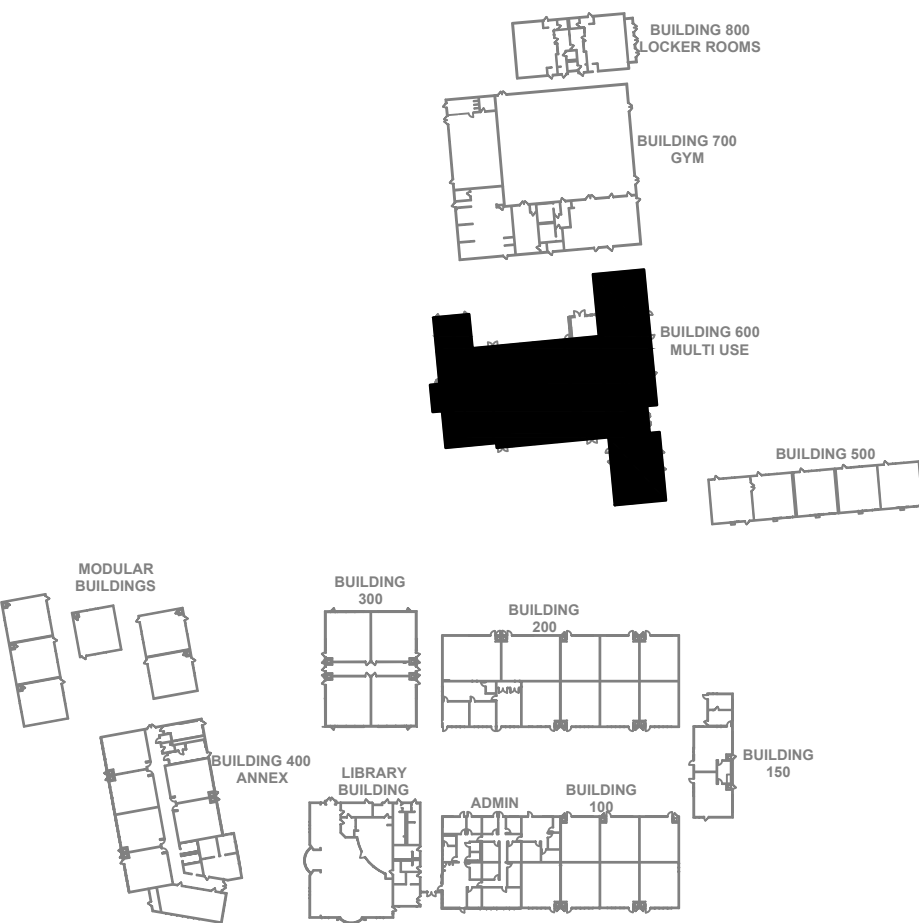
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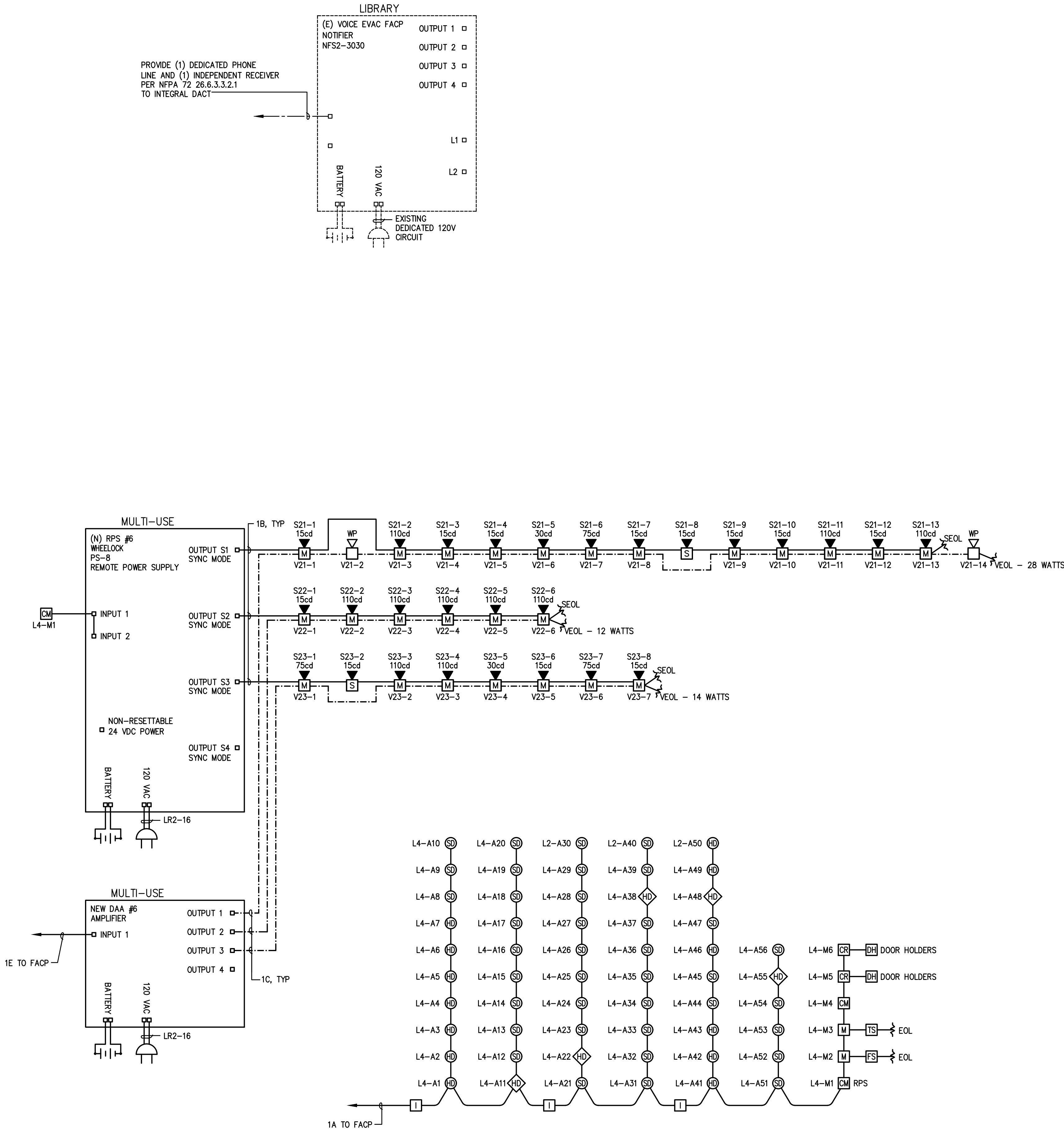
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VOLTAGE DROP (VD) CALCULATION

PROJECT NAME: WALNUT CREEK INTERMEDIATE
SIGNAL CIRCUIT #: S21

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	10	15	10	15	15	35	10	5	10	10
AMPS OF DEVICE	0.06	0.22	0.06	0.06	0.092	0.165	0.06	0.06	0.06	0.06
TOTAL_AMPS@DEV.	1.397	1.337	1.117	1.057	0.997	0.905	0.74	0.68	0.62	0.56
VOLT. DROP @ DEV.	0.04621	0.066338	0.036948	0.052445	0.049468	0.104775	0.024478	0.011247	0.020508	0.018524

DEVICE #	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	15	40	5							
AMPS OF DEVICE	0.22	0.06	0.22							
TOTAL_AMPS@DEV.	0.5	0.28	0.22	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0.024809	0.037047	0.003639							

TOTAL CKT. AMPS	1.397 AMPS	WIRE SIZE	10	RESIS. /M FT.	1.24	CIRC. MILS.	10380
TOTAL CKT V DROP =	0.4964 VDC	12	1.59	6530	** FORMULA **		
CKT VOLTAGE =	20.4	14	2.52	4110			
% VOLTAGE DROP=	2.4%	16	4.02	2580	I * FEET * 21.6		
		18	6.39	1620	C.M.		
		20	10.1	1020			

VOLTAGE DROP (VD) CALCULATION

PROJECT NAME: WALNUT CREEK INTERMEDIATE
SIGNAL CIRCUIT #: S22

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	15	45	15	30	50	25				
AMPS OF DEVICE	0.06	0.22	0.22	0.22	0.22	0.22				
TOTAL_AMPS@DEV.	1.16	1.1	0.88	0.66	0.44	0.22	0	0	0	0
VOLT. DROP @ DEV.	0.057556	0.163737	0.043663	0.065495	0.072772	0.018193	0	0	0	0

DEVICE #	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)										
AMPS OF DEVICE	0	0	0	0	0	0	0	0	0	0
TOTAL_AMPS@DEV.	0	0	0	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0	0	0	0	0	0	0	0	0	0

TOTAL CKT. AMPS	1.16 AMPS	WIRE SIZE	10	RESIS. /M FT.	1.24	CIRC. MILS.	10380
TOTAL CKT V DROP =	0.4214 VDC	12	1.59	6530	** FORMULA **		
CKT VOLTAGE =	20.4	14	2.52	4110			
% VOLTAGE DROP=	2.1%	16	4.02	2580	I * FEET * 21.6		
		18	6.39	1620	C.M.		
		20	10.1	1020			

VOLTAGE DROP (VD) CALCULATION

PROJECT NAME: WALNUT CREEK INTERMEDIATE
SIGNAL CIRCUIT #: S23

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	65	30	10	35	60	20	50	5		
AMPS OF DEVICE	0.165	0.06	0.22	0.22	0.092	0.06	0.165	0.06	0	0
TOTAL_AMPS@DEV.	1.042	0.877	0.817	0.597	0.377	0.285	0.225	0.06	0	0
VOLT. DROP @ DEV.	0.224038	0.067028	0.027025	0.069117	0.074823	0.018555	0.037213	0.000692	0	0

DEVICE #	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)										
AMPS OF DEVICE	0	0	0	0	0	0	0	0	0	0
TOTAL_AMPS@DEV.	0	0	0	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0	0	0	0	0	0	0	0	0	0

TOTAL CKT. AMPS	1.042 AMPS	WIRE SIZE	10	RESIS. /M FT.	1.24	CIRC. MILS.	10380
TOTAL CKT V DROP =	0.5391 VDC	12	1.59	6530	** FORMULA **		
CKT VOLTAGE =	20.4	14	2.52	4110			
% VOLTAGE DROP=	2.6%	16	4.02	2580	I * FEET * 21.6		
		18	6.39	1620	C.M.		
		20	10.1	1020			



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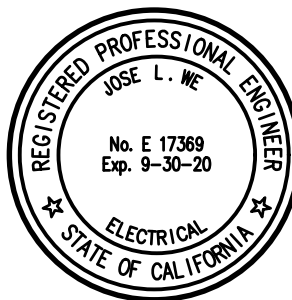
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ISSUE DATE: 8/25/20 BY: MH

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Architect/Engineer Of Record:



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HY ARCHITECTS JOB NUMBER 5241

Facility
WALNUT CREEK SCHOOL DISTRICT
2425 WALNUT BOULEVARD, WALNUT CREEK, CA 94597

Project
MODERNIZATION AND RECONFIGURATION PROJECT
INCREMENT III

Sheet Title
ELECTRICAL FIRE ALARM RISER
DIAGRAM AND CALCULATIONS

Client Project Number: Client Proj. #

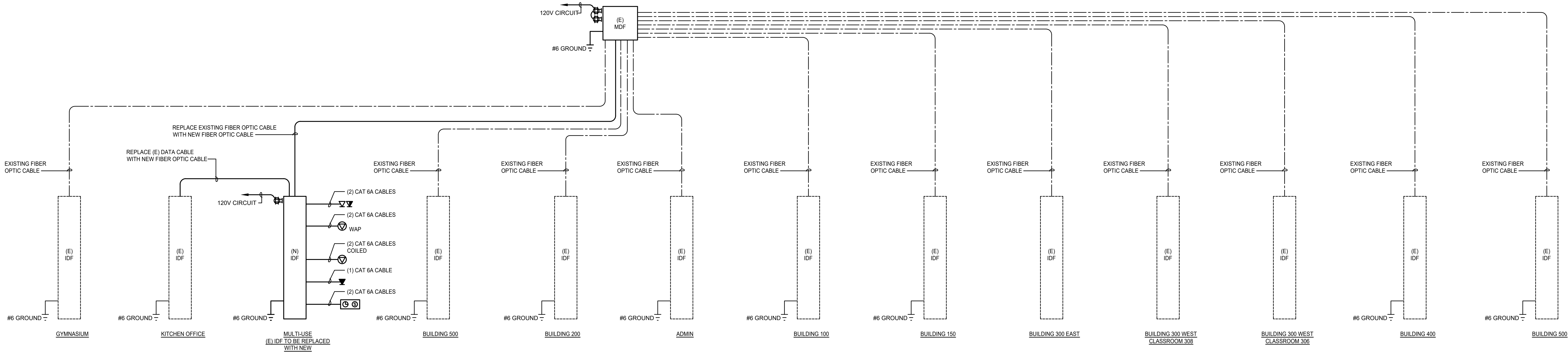
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Sheet 93 of 95



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Revisions				
No.	Revisions	By	Date	Appr.

WCKM

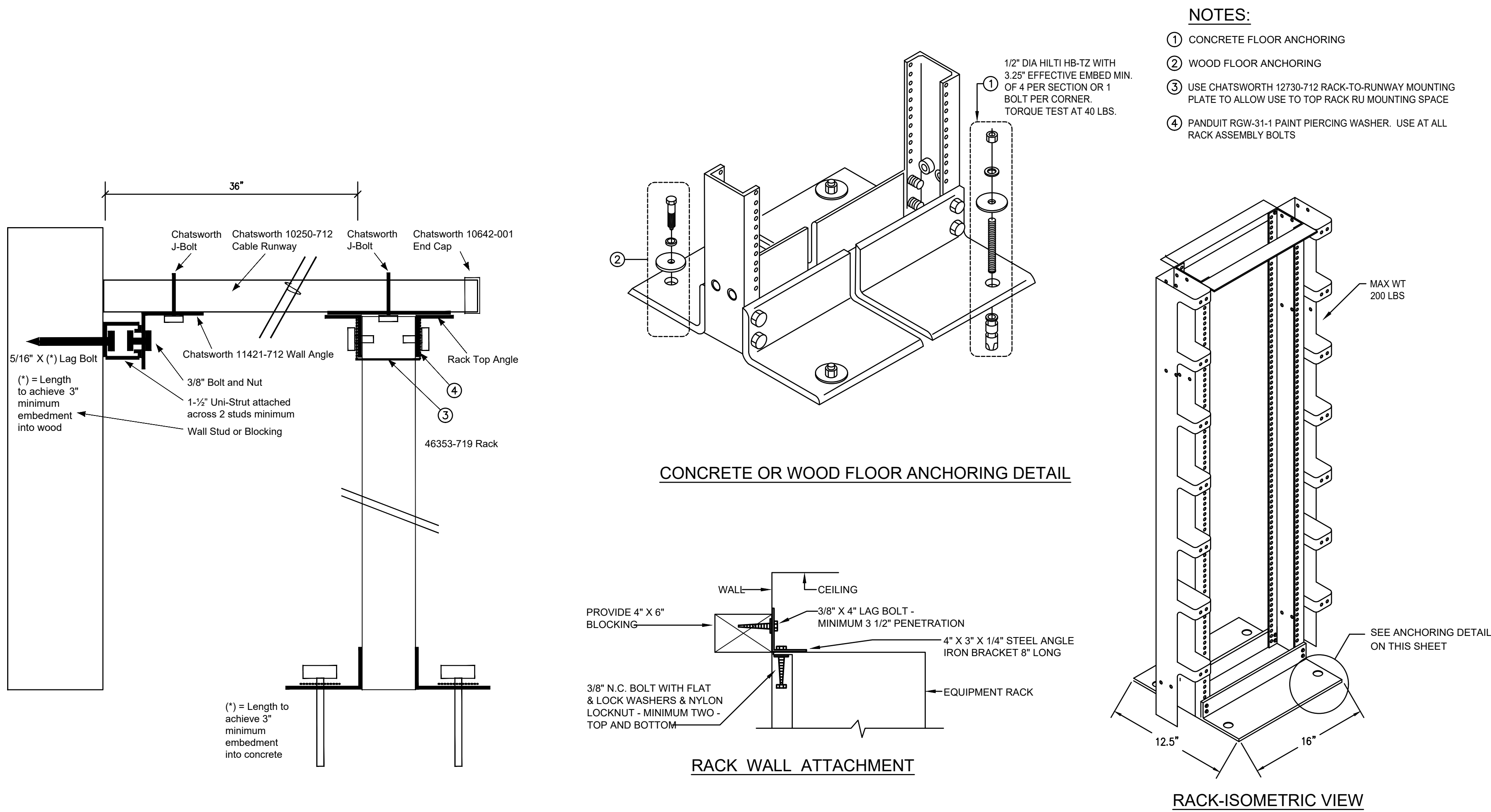
Electrical Consultants Incorporated
3397 Mt. Diablo Blvd., Suite C
Lafayette, CA 94549
Tel: 925.385.0649
19-002 INC 1

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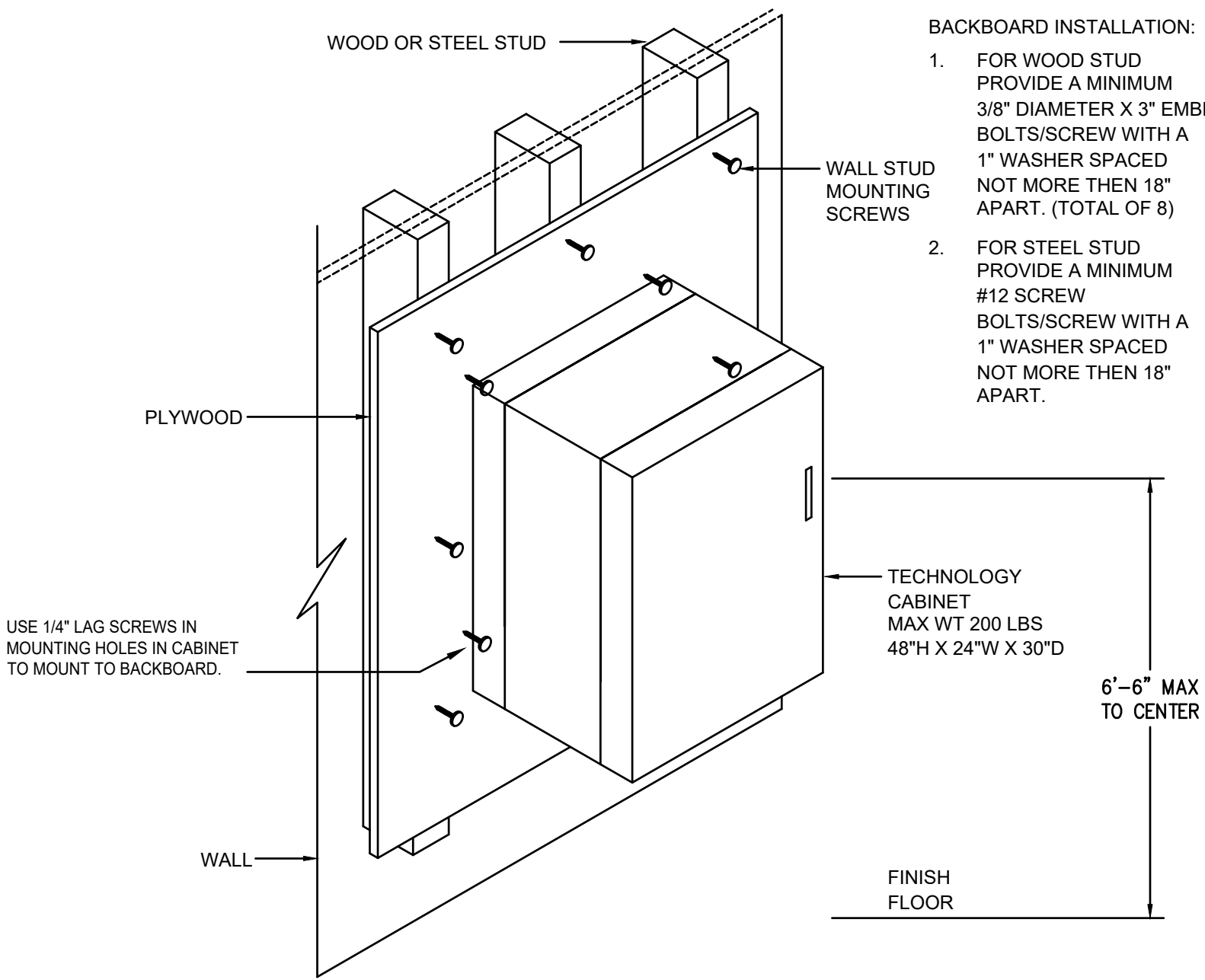
DATA/TELEPHONE DISTRIBUTION RISER DIAGRAM NTS 1



- NOTES:
- 1 CONCRETE FLOOR ANCHORING
 - 2 WOOD FLOOR ANCHORING
 - 3 USE CHATSWORTH 12730-712 RACK-TO-RUNWAY MOUNTING PLATE TO ALLOW USE TO TOP RACK RU MOUNTING SPACE
 - 4 PANDUIT RGW-31-1 PAINT PIERCING WASHER. USE AT ALL RACK ASSEMBLY BOLTS

GENERAL NOTE:

- BACKBOARD INSTALLATION:
1. FOR WOOD STUD PROVIDE A MINIMUM 3/8" DIAMETER X 3" EMBED DEPTH BOLTS/SCREW WITH A 1" WASHER SPACED NOT MORE THEN 18" APART. (TOTAL OF 8)
 2. FOR STEEL STUD PROVIDE A MINIMUM #12 SCREW BOLTS/SCREW WITH A 1" WASHER SPACED NOT MORE THEN 18" APART.



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Project
MODERNIZATION AND RECONFIGURATION PROJECT INCREMENT III

Sheet Title
ELECTRICAL DATA DETAILS

Client Project Number: Client Proj. #

Scale: AS NOTED Sheet

Drawn By: DAM

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Issue Date: 8/25/20

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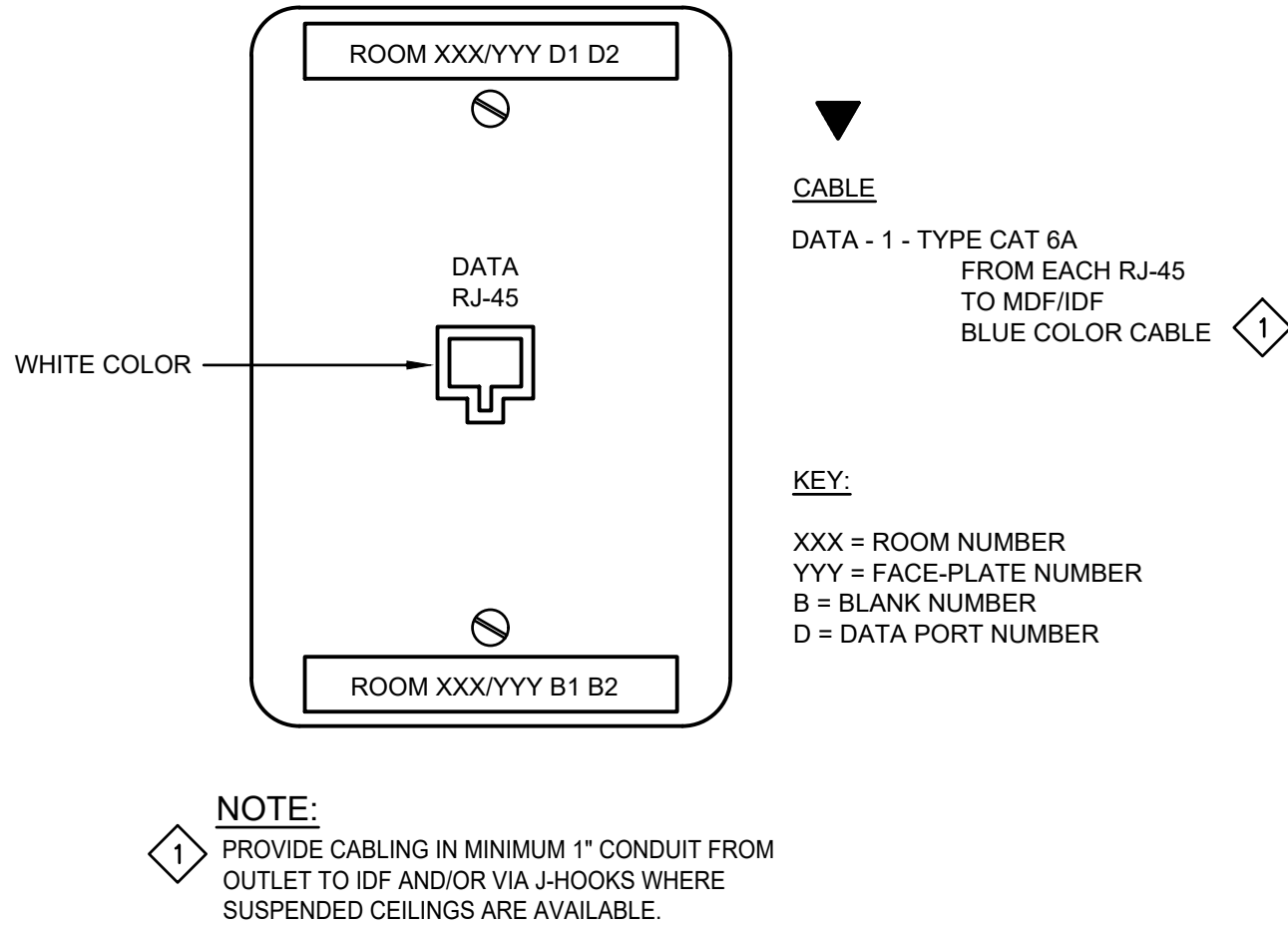
Sheet 94 of 95

CABLE RUNWAY/DATA RACK ANCHORING DETAILS NTS 3

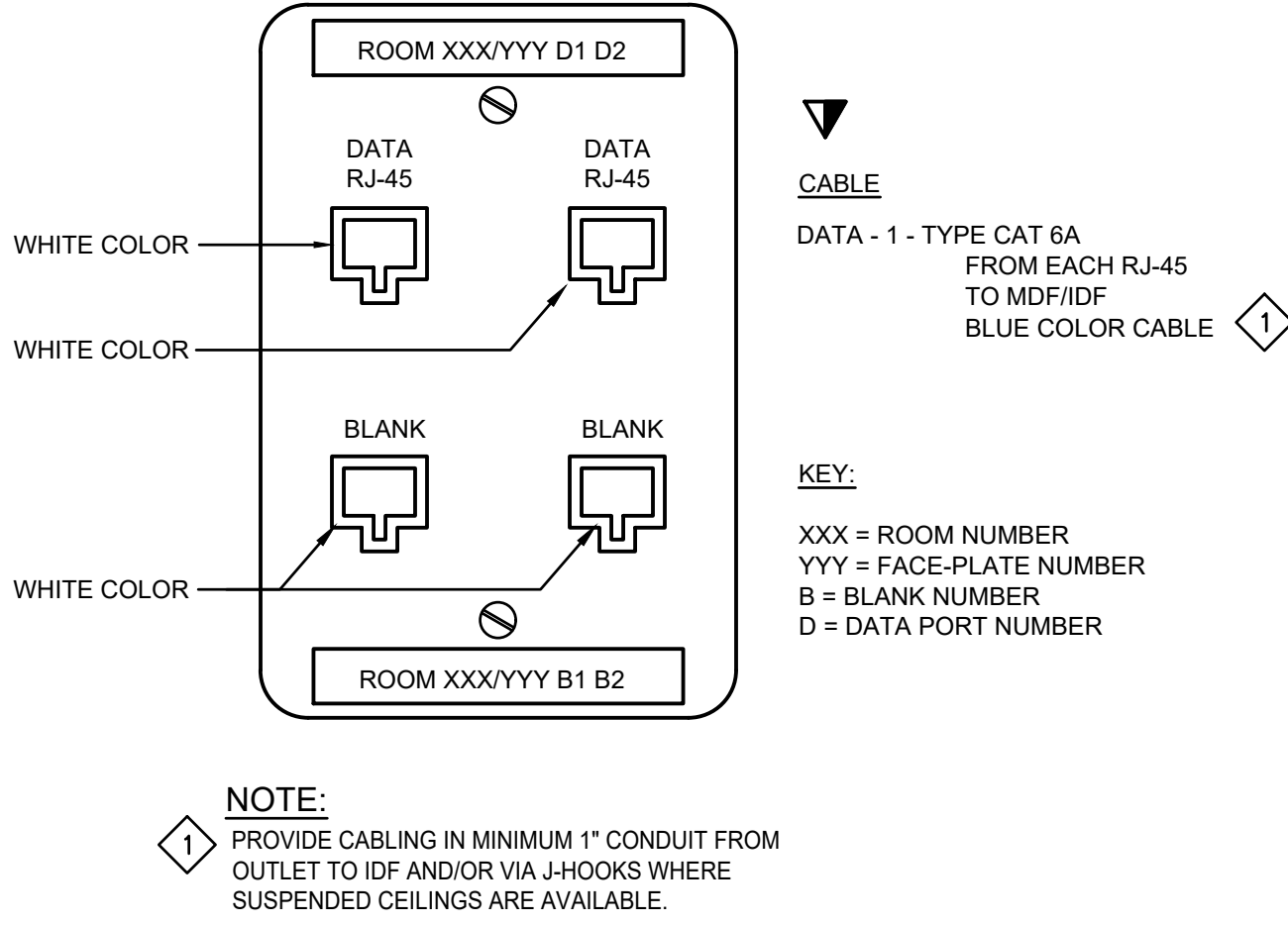
CABINET MOUNTING DETAIL NTS 2



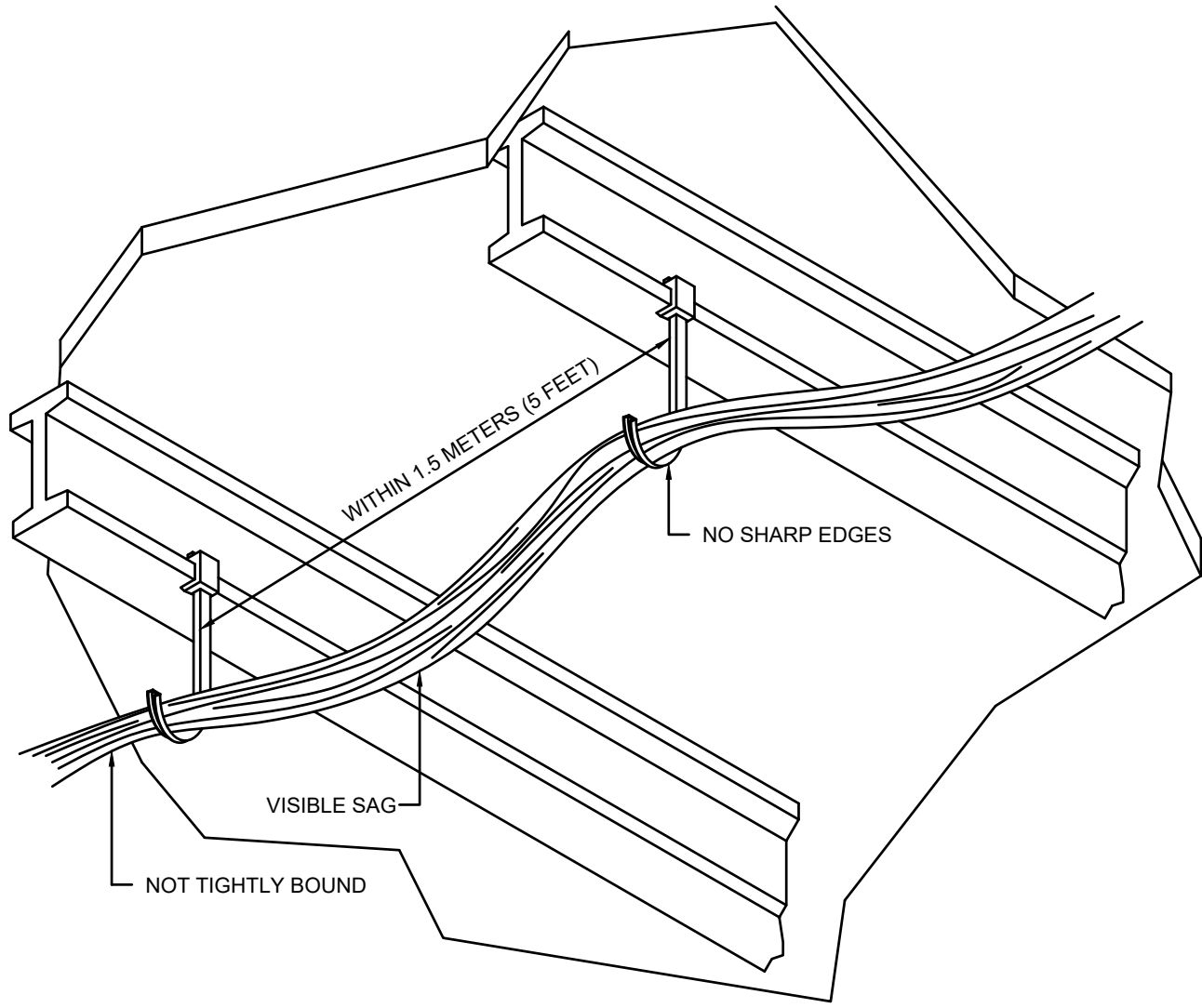
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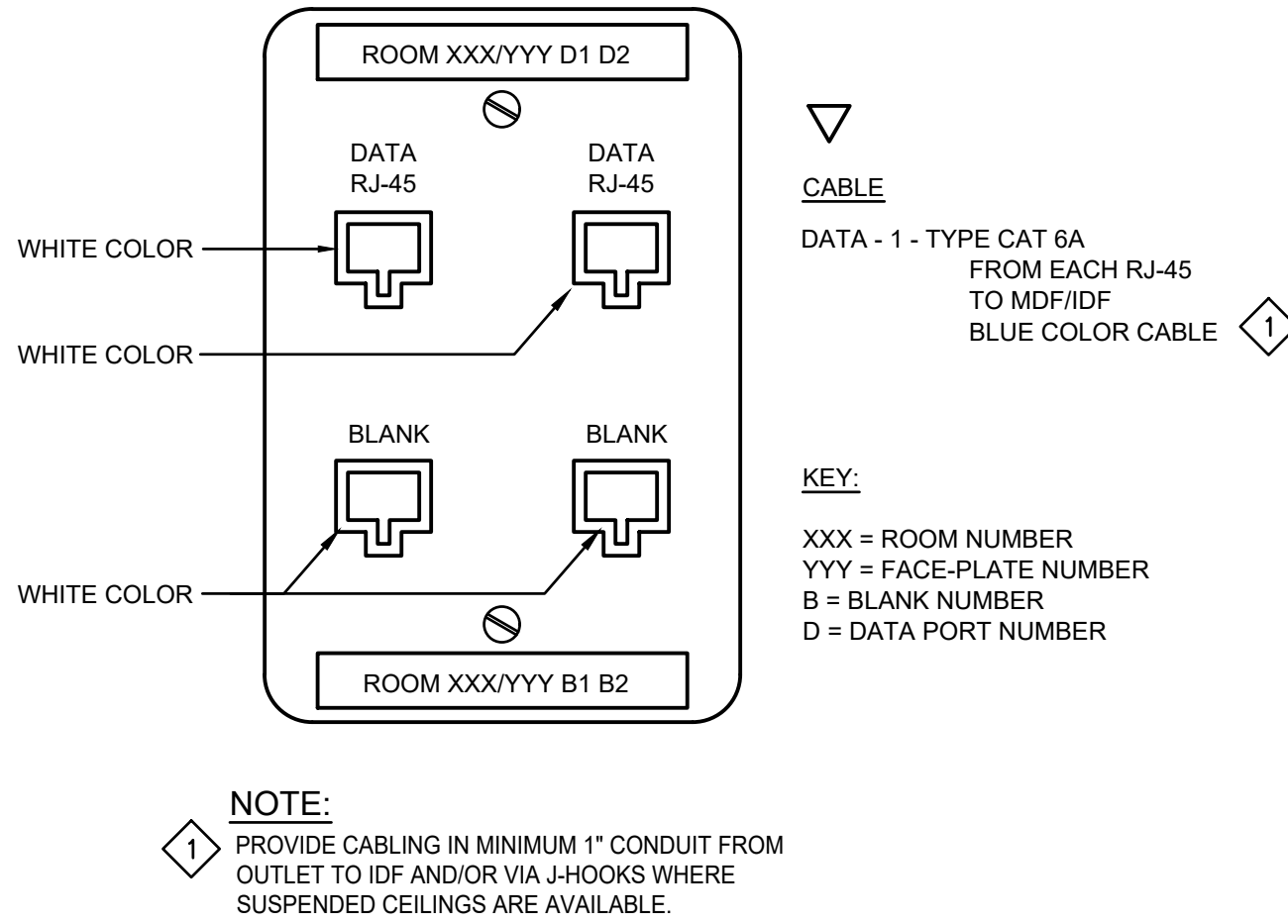
TYPICAL WALL PHONE OUTLET NTS 7



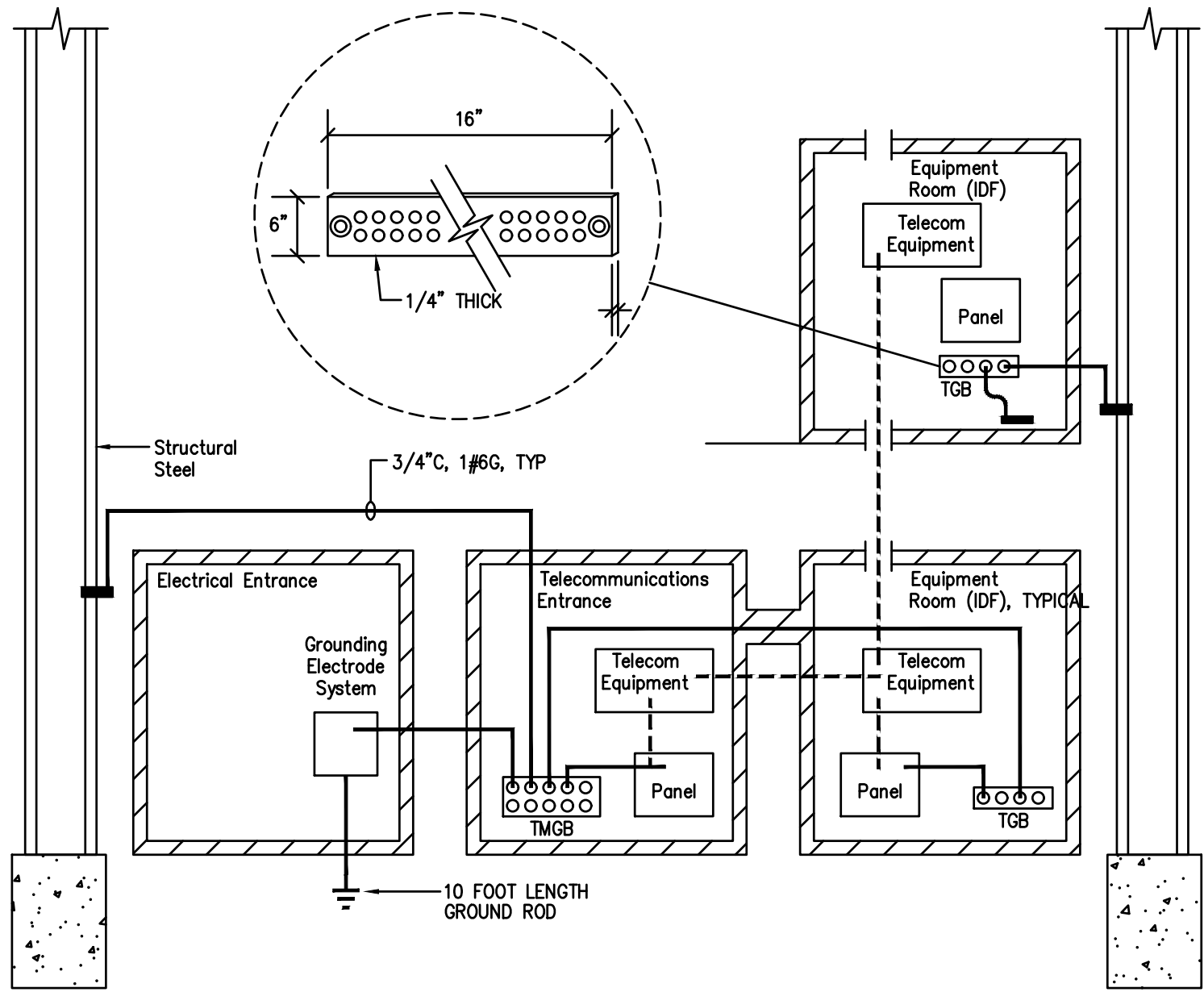
TYPICAL ADMIN/TEACHER'S VOICE/DATA OUTLET NTS 4



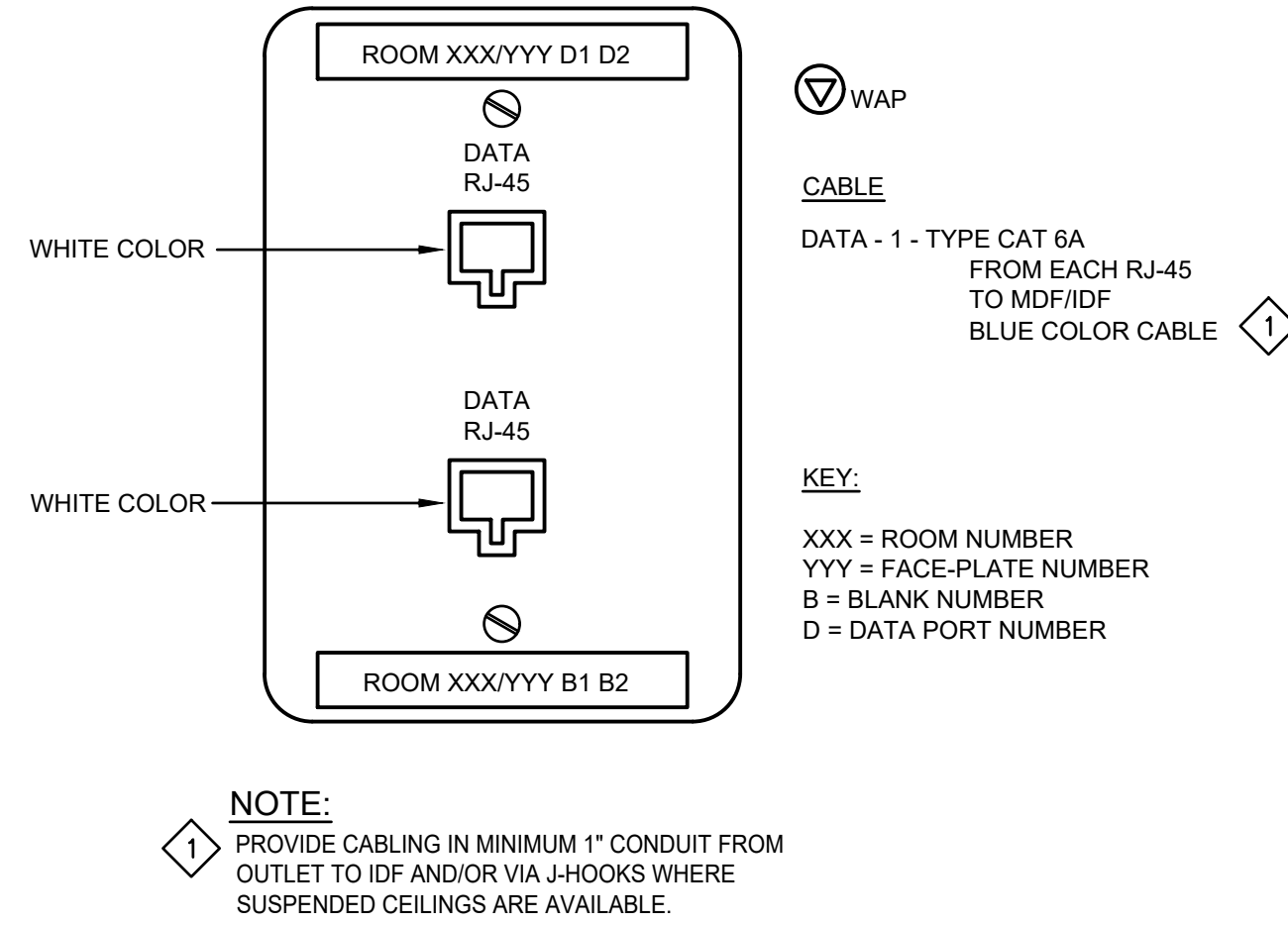
CABLE PATHWAYS DETAIL NTS 1



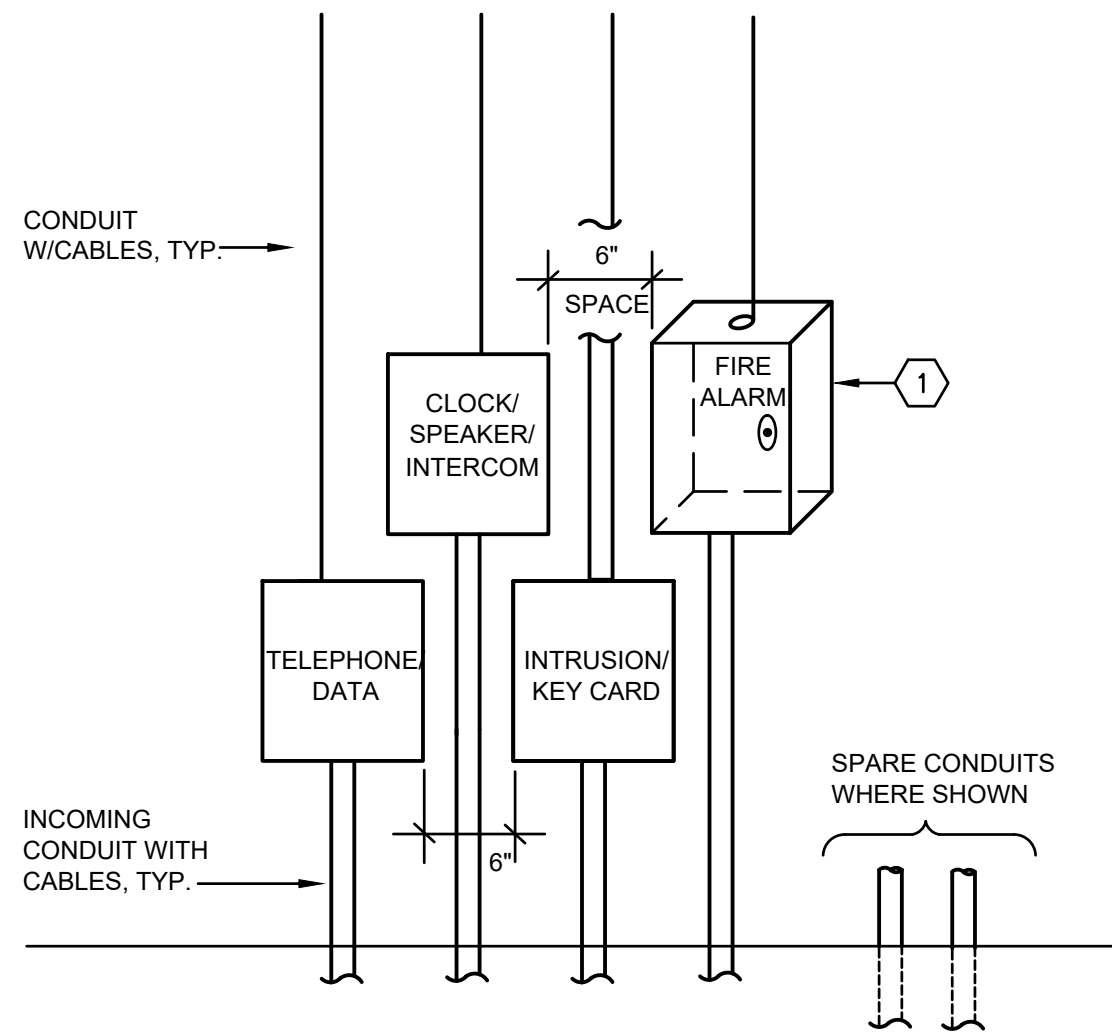
TYPICAL STUDENT DATA OUTLET NTS 5



BUILDING GROUND DETAIL NTS 2



TYPICAL WIRELESS DATA OUTLET NTS 6



TYPICAL STC LAYOUT NTS 3



Revisions				
No.	Revisions	By	Date	Appr.

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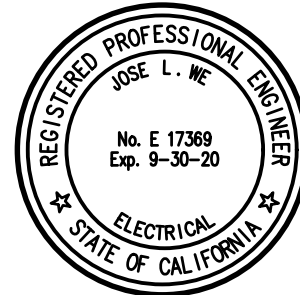
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Facility

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2425 WALNUT BOULEVARD, WALNUT
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Project

**MODERNIZATION AND
RECONFIGURATION PROJECT
INCREMENT III**

Sheet Title

ELECTRICAL DATA DETAILS

Client Project Number: Client Proj. #

Scale: AS NOTED

Drawn By: DAM

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Issue Date: 8/25/20

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Sheet 95 of 95