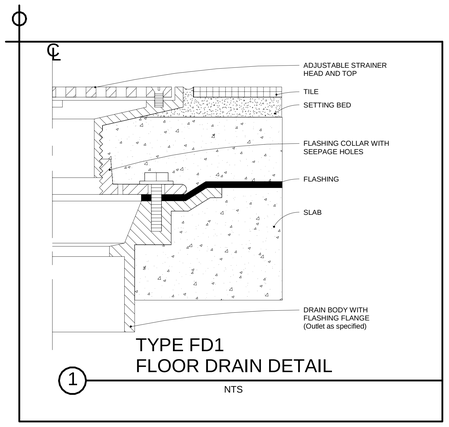
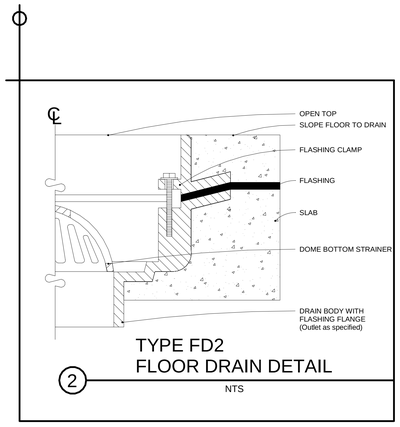


TYPE FD1
FLOOR DRAIN DETAIL

1

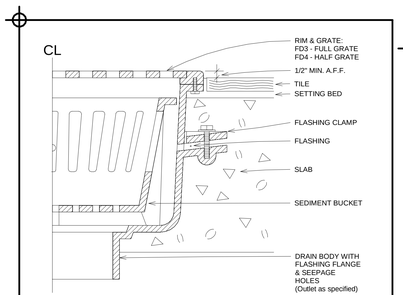
NTS



TYPE FD2
FLOOR DRAIN DETAIL

2

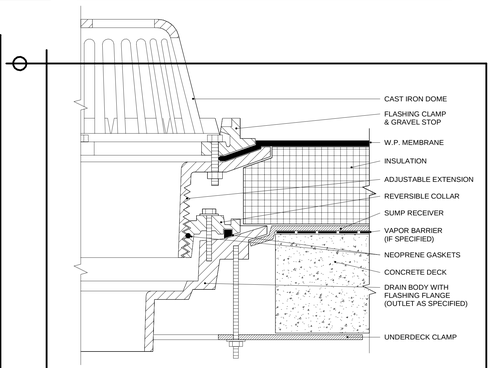
NTS



TYPE FD4 (FD3 SIM.)
FLOOR SINK DETAIL

3

SCALE: NONE



TYPE RD
ROOF DRAIN DETAIL

4

NTS

SYMBOL LIST		SYMBOL LIST		SYMBOL LIST		SYMBOL LIST	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GATE VALVES		BUTTERFLY VALVE	DF	DRINKING FOUNTAIN	TOS	TOP OF SLAB
			DRAIN VALVE	DFU	DRAINAGE FIXTURE UNITS	TPA	TRAP PRIMER ASSEMBLY
	CHECK VALVES		GAS SERVICE STOP VALVE	DIA, Ø	DIAMETER	TR	TO REMAIN
			SERVICE STOP VALVE	DIV	DIVISION	TRP	TRAP
	STRAINERS		GLOBE VALVE	DRP	DROP	TYP	TYPICAL
			OS&Y GATE VALVE	DS	DOWNSPOUT	UI	URINAL, TYPE
	BALL VALVES		PRESSURE & TEMPERATURE RELIEF VALVE	DTS	DOWN THRU SLAB	UG	UNDERGROUND
			SOLENOID VALVE	ES	EMERGENCY SHOWER	VA	VALVE
	BALANCING VALVES		STRAINER W/ DRAIN VALVE	ET#	THERMAL EXPANSION TANK, DESIGNATION	VB	VACUUM BREAKER
			UNION	EX	EXISTING	VIF	VERIFY IN FIELD
	UNIONS	AD	AREA DRAIN	F#	DRINKING FOUNTAIN/WATER COOLER, TYPE	WI#	WATERCLOSET, TYPE
HWR	HOT WATER RETURN	AFF	ABOVE FINISHED FLOOR	FLR	FLOOR	WSFU	WATER SUPPLY FIXTURE UNITS
CW	COLD WATER SUPPLY	BFP	BACKFLOW PREVENTER	FRS	FLUSHING RIM SINK	YD	YARD DRAIN
HW	HOT WATER SUPPLY	BI	BIDET	FTG	FOOTING		
S	SANITARY DRAIN PIPE	BLDG	BUILDING	FTTP	FLUSH TANK TRAP PRIMER ASSEMBLY		
ST	STORM DRAIN PIPE	BI	BIDET	FVTP	FLUSH VALVE TRAP PRIMER ASSEMBLY		
PD	PUMP DISCHARGE PIPING	CO	CLEANOUT	GA	GAUGE		
V	VENT PIPING	CONN	CONNECT	GD	GUTTER DRAIN		
W	WASTE PIPING	CONT	CONTINUATION	H'C, HC, H	HANDICAP ACCESSIBLE FIXTURE		
IW	INDIRECT WASTE PIPING	DI	DRAIN, TYPE	HB#	HOSE BIBB, TYPE		
OST	OVERFLOW STORM PIPING	DN	DOWN	HT	HOUSE TRAP		
	ELBOW DOWN - ELBOW UP	DW	DISHWASHER	KEC	KITCHEN EQUIPMENT CONTRACTOR		
	EXISTING PIPE TO REMAIN	DWG	DRAWING	L#	LAVATORY, TYPE		
	EXISTING PIPE TO BE REMOVED	DPCO	DECKPLATE CLEANOUT	LDR	LEADER		
	CONNECT NEW TO EXISTING	EL	ELEVATION	LS	LAUNDRY SINK		
AV	ACID VENT PIPING	EW	EMERGENCY EYEWASH	MECH	MECHANICAL		
AW	ACID WASTE PIPING	EWC	ELECTRIC WATER COOLER	MER	MECHANICAL EQUIPMENT ROOM		
CA	COMPRESSED AIR PIPING	EWSH	EMERGENCY EYEWASH/ SHOWER COMBINATION	MH	MANHOLE		
CD	CONDENSATE DRAIN PIPING	FAI	FRESH AIR INTAKE	MTD	MOUNTED		
CHS,R	COOLER CHILLED WATER SUPPLY/RETURN PIPING	FD	FLOOR DRAIN	NC	NORMALLY CLOSED		
CS	COMBINED SEWER, ABOVE FINISHED FLOOR	FFD	FUNNEL FLOOR DRAIN	NIC	NOT IN CONTRACT		
CS	COMBINED SEWER, BELOW FINISHED FLOOR	FP	FIRE PROTECTION	NTS	NOT TO SCALE		
DI	DEIONIZED WATER PIPING	FPHB	FREEZE PROOF HOSE BIBB	OC	ON CENTER		
DR	DRAIN PIPING	FS	FLOOR SINK	OD	OUTSIDE DIAMETER		
DW	DISTILLED WATER PIPING	GPM	GALLONS PER MINUTE	ORD	OVERFLOW ROOF DRAIN		
FM	FORCED MAIN PIPING	HB	HOSE BIBB	P#	PUMP, DESIGNATION		
FTG	FOOTING DRAIN PIPING	IE, INV	INVERT ELEVATION	PLBG	PLUMBING		
G	GAS PIPING	KS	KITCHEN SINK	PLD	PLANTER DRAIN		
GW	GREASE WASTE PIPING	LAV	LAVATORY	PMP	PUMP		
IRR	IRRIGATION PIPING	MR	MOP RECEPTOR	POC	POINT OF CONNECTION		
LA	LAB COMPRESSED AIR PIPING	RD	ROOF DRAIN	PSI	POUNDS PER SQUARE INCH		
LV	LAB VACUUM PIPING	RPZ	REDUCED PRESSURE ZONE	RAC	RUN ABOVE CEILING		
MU	MAKE -UP WATER PIPING	SH	SHOWER	R@C	RUN AT CEILING		
S	SANITARY DRAIN PIPE (BELOW FINISHED FLOOR)	SK	SINK	RBF	RUN BELOW FLOOR		
SA	SHOP COMPRESSED AIR PIPING	SS	SERVICE SINK	RBG	RUN BELOW GRADE		
ST	STORM DRAIN PIPE (BELOW FINISHED FLOOR)	UR	URINAL	RBS	RUN BELOW SLAB		
TP	TRAP PRIMER PIPING	VTR	VENT THRU ROOF	RP#	RECIRC. PUMP, DESIGNATION		
UD	UNDER DRAIN PIPING	WC	WATER CLOSET	RPZBFP	REDUCED PRESSURE ZONE BACKFLOW PREVENTER		
W	WASTE DRAIN PIPING (BELOW FINISHED FLOOR)	WCO	WALLPLATE CLEANOUT	RSE	RISE		
WPD	WELL PUMP DISCHARGE PIPING	A/C	AIR CONDITIONING	RSR	RISER		
WW	WELL WATER PIPING	AP	ACCESS PANEL TO SERVICE VALVES	RT	RUNNING TRAP		
	COLD WATER SUPPLY	ASSY	ASSEMBLY	S#	SINK, TYPE		
	HOT WATER SUPPLY	AVTR	ACID VENT THRU ROOF	SD	SCUPPER DRAIN		
	HOT WATER 140 °F SUPPLY	BE	BOTTOM ELEVATION	SE#	SEWAGE EJECTOR PUMP, DESIGNATION		
	HOT WATER RETURN	BS	BAR SINK	SF, FT ²	SQUARE FEET		
	EXISTING PIPING AND/OR EQUIPMENT TO BE REMOVED	BT	BATHTUB	SH#	SHOWER,TYPE		
	EXISTING PIPING AND/OR EQUIPMENT TO REMAIN	BTISH	BATHTUB & SHOWER	SHD	SHOWER DRAIN		
	PIPING TO BE ELECTRICALLY HEAT TRACED	BTUH	BRITISH THERMAL UNITS PER HOUR	SMH	SANITARY MANHOLE		
	CONCENTRIC REDUCER	BT/WP	BATHTUB & WHIRLPOOL	SOG	SLAB -ON -GRADE		
	ECCENTRIC REDUCER	C#	CLEANOUT, TYPE	SOV	SHUT -OFF VALVE		
	AQUASTAT	CFH	CUBIC FEET PER HOUR	SP#	STORM SUMP PUMP, DESIGNATION		
	PRESSURE GAUGE W/ TEST COCK	CFM	CUBIC FEET PER MINUTE	ST/STL	STAINLESS STEEL		
	PRESSURE SWITCH	CFS	CUBIC FEET PER SECOND	SVC	SERVICE		
	THERMOMETER	CLD	CLOTHES DRYER	TBR	TO BE REMOVED		
	WATERTIGHT WALL SLEEVE	℄ EL	CENTER LINE ELEVATION	TD	TERRACE DRAIN		
	ANGLE VALVE	CLG	CEILING	TE	TOP ELEVATION		
	CHECK/BACKWATER VALVE	CLW	CLOTHES WASHER	TLT	TOILET		
	BALANCING VALVE	CS	CUP SINK	TMV#	THERMOSTATIC MIXING VALVE, DESIGNATION		
	BALL VALVE	DD	DECK DRAIN	TOF	TOP OF FOOTING		

PLUMBING GENERAL NOTES

1. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL EQUIPMENT AND PIPING LOCATIONS WITH OTHER TRADES AND STRUCTURES.

2. THESE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC ONLY, THE LOCATION AND ELEVATIONS OF EXISTING EQUIPMENT AND PIPING INDICATED ON THE DRAWINGS HAS BEEN TAKEN FROM AVAILABLE DRAWINGS AND/OR FIELD SURVEYS, BUT MAY VARY SLIGHTLY FROM ACTUAL CONDITIONS. THE PLUMBING CONTRACTOR SHALL VERIFY ALL TRUE SIZES, LOCATIONS AND ELEVATIONS OF EQUIPMENT AND PIPING (INCLUDING PIPING RUN BELOW SLAB) IN THE FIELD PRIOR TO CONSTRUCTION.

3. NO EXISTING SERVICE MAY BE CUT OR DAMAGED WHEN ENCOUNTERED ALONG THE ROUTE DESIGNED FOR NEW SERVICES WITHOUT CONSENT OF THE ARCHITECT. ANY EXISTING SERVICE SEVERED OR DAMAGED SHALL BE REPLACED (WITH NEW OR TO ITS ORIGINAL WORKING CONDITION) AT NO ADDITIONAL COST TO THE OWNER.

4. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AT THE TIME OF BID TO EXAMINE CONDITIONS AND FAMILIARIZE HIMSELF WITH THE JOB NOTING DEGREE OF DIFFICULTY IN GETTING EQUIPMENT IN AND OUT OF THE CONSTRUCTION AREA.

5. THE PLUMBING CONTRACTOR SHALL VERIFY ALL PIPING IN THE FIELD EITHER BY DYE OR FLOW TESTING BEFORE MAKING NEW CONNECTIONS TO EXISTING PIPING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER BEFORE ANY CONNECTIONS ARE MADE.

6. THE PLUMBING CONTRACTOR SHALL VERIFY THE SIZES AND LOCATIONS OF ALL EXISTING PIPING IN THE FIELD BEFORE MAKING NEW CONNECTIONS TO EXISTING PIPING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER BEFORE ANY CONNECTIONS ARE MADE.

7. THE PLUMBING CONTRACTOR SHALL SEAL AROUND ALL NEW PIPE PENETRATIONS THROUGH NEW AND EXISTING STRUCTURES WITH SEALANT OF FIRE RETARDANT TYPE EQUAL IN FIRE RATING TO STRUCTURE PENETRATED. SEALANT SHALL EXTEND FULL THICKNESS OF STRUCTURE. CONTRACTOR SHALL VERIFY FIRE RATED WALLS, IF WALLS ARE NOT FIRE RATED THEN FIRE SEALANT SHALL NOT BE REQUIRED.

8. THE CONTRACTOR SHALL VERIFY CONDITION OF EXISTING PIPING PRIOR TO MAKING NEW CONNECTIONS. ALL PIPING FOUND TO BE DETERIORATED AND/OR UNSUITABLE FOR USE SHALL BE REPORTED TO THE ENGINEER FOR EVALUATION.

9. ALL CUTTING, ROUGH PATCHING AND PRIME PAINTING REQUIRED FOR WORK OF THIS SECTION SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. ALL FINISHED PATCHING AND PAINTING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

10. ALL EXCAVATION AND BACKFILLING REQUIRED FOR WORK OF THIS SECTION SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

11. ALL FEES FOR PERMITS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

12. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION AND WITH THE PROVISIONS OF ALL STATE AND FEDERAL CODES AND LAWS.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE AND APPROVED POTABLE WATER SERVICE (AND FIRE SERVICE) FROM STREET MAIN TO THE BUILDING. HE SHALL PROVIDE ALL NECESSARY COMPONENTS, SUCH AS STREET TAP(S), PIPING, WATER METER(S), DETECTOR CHECK(S), ROUGHING-IN AND CURB STOP(S). HE SHALL CONSULT WITH LOCAL AUTHORITIES HAVING JURISDICTION AT THE TIME OF BID MAKING ALL NECESSARY ARRANGEMENTS, BEARING ALL COSTS AND FEES SOLELY FOR THE COMPLETE INSTALLATION OF THE WATER SERVICE(S) AT NO ADDITIONAL COST TO THE OWNER.

14. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE AND APPROVED GAS SERVICE FROM THE STREET MAIN TO THE BUILDING. HE SHALL BE RESPONSIBLE FOR ARRANGING WITH THE GAS COMPANY THE INSTALLATION OF A COMPLETE SERVICE INCLUDING ALL NECESSARY COMPONENTS SUCH AS STREET TAP(S), PIPING AND METER, ROUGHING-IN, AND CURB STOP(S). HE SHALL CONSULT WITH LOCAL AUTHORITIES HAVING JURISDICTION AT THE TIME OF BID MAKING ALL NECESSARY ARRANGEMENTS, BEARING ALL COSTS AND FEES SOLELY FOR THE COMPLETE INSTALLATION OF THE GAS SERVICE, AT NO ADDITIONAL COST TO THE OWNER.

15. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE AND APPROVED SEWER SYSTEM FROM BUILDING TO STREET MAIN. HE SHALL CONSULT WITH LOCAL AUTHORITIES HAVING JURISDICTION AT THE TIME OF BID MAKING ALL NECESSARY ARRANGEMENTS, BEARING ALL COSTS AND FEES SOLELY FOR THE COMPLETE INSTALLATION OF THE SEWER SERVICE AT NO ADDITIONAL COST TO THE OWNER.

FIXTURE BRANCH SIZES

FIXTURE	COLD	HOT	WASTE	VENT
WATER CLOSET (flush valve)	1"	---	4"	2"
WATER CLOSET (flush tank)	1/2"	---	3"	2"
URINAL (flush valve)	3/4"	---	2"	2"
LAVATORIES	1/2"	1/2"	1 1/2"	1 1/2"
SINKS	1/2"	1/2"	2"	2"
DRINKING FOUNTAINS/WATER COOLERS	1/2"	---	1 1/2"	1 1/2"
HOSE BIBBS (interior)	1/2"	---	---	---
HOSE BIBBS (exterior)	3/4"	---	---	---
SERVICE SINKS	1/2"	1/2"	3"	2"
MOP RECEPTORS	1/2"	1/2"	3"	2"
SHOWERS	1/2"	1/2"	2"	2"
BATHTUBS	1/2"	1/2"	2"	2"
CLOTHES WASHERS	1/2"	1/2"	2"	2"

DRAWING INDEX

Sheet Number	Sheet Name
P0.00	NOTES, SYMBOLS & DETAILS
P2.00	PLUMBING UNDERSLAB PIPING PLAN
P2.01	PLUMBING 1ST FLOOR PLAN
P2.02	PLUMBING 2ND FLOOR AND LOW ROOF PLAN
P2.03	PLUMBING HIGH ROOF PLAN
P2.12	PLUMBING STORM RISER DIAGRAM
P2.13	PLUMBING WATER RISER DIAGRAM

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PLAN NORTH

ISSUE DATE: 08 -01-2023
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CHECKED BY: Checker

HOLD FOR CIVIL DESIGN

8"ST CONT BY DIV 33
INV 4' -6" BELOW GRADE

2"W UP

4" SANITARY
I.E. -5'-1"

4" Grease Waste
I.E. -4'-3.5/8"

140dfs Tot

2"W UP W/TRAP

3"GW UP W/TRAP TO FD4

3"GW UP W/TRAP TO FD4

2"W UP

HOLD FOR CIVIL DESIGN

NEW GAS SERVICE
BY PIEDMONT

4" DOMESTIC WATER SERVICE REFER
TO SITE FOR CONTINUATION.

HOLD FOR CIVIL DESIGN

3"W UP
90°

HOLD FOR CIVIL DESIGN

4" STORM
I.E. -4'-8"

4"S UP

2"W UP

2"W UP

4"S UP

4"S UP

3"W UP
24

10" STORM, TERMINATE
5'-0" FROM BLDG WALL
FOR EXTENSION BY
OTHER DIVISION
I.E. -4'-6"

HOLD FOR CIVIL DESIGN

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PLUMBING UNDERSLAB PIPING PLAN

P2.00

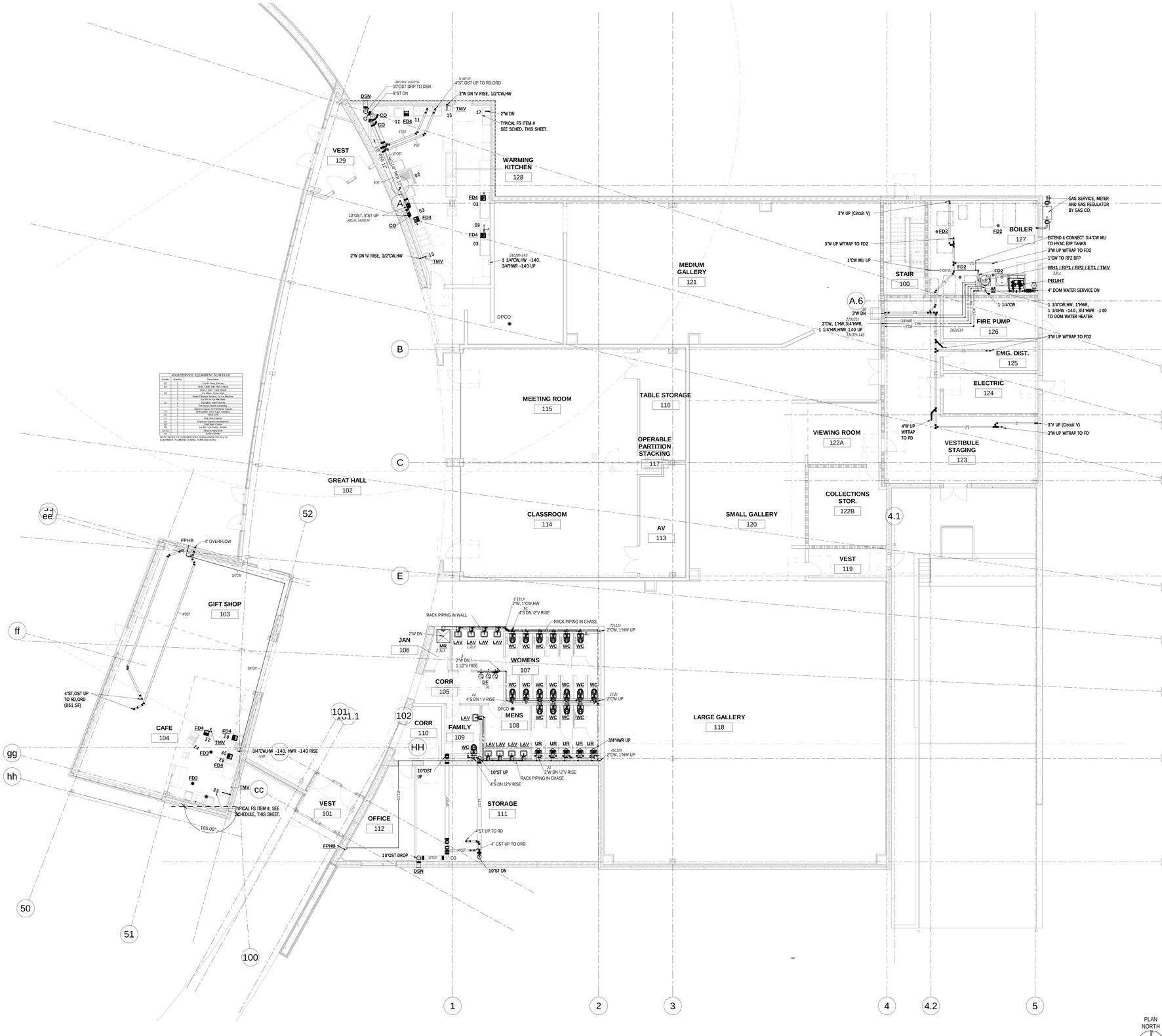
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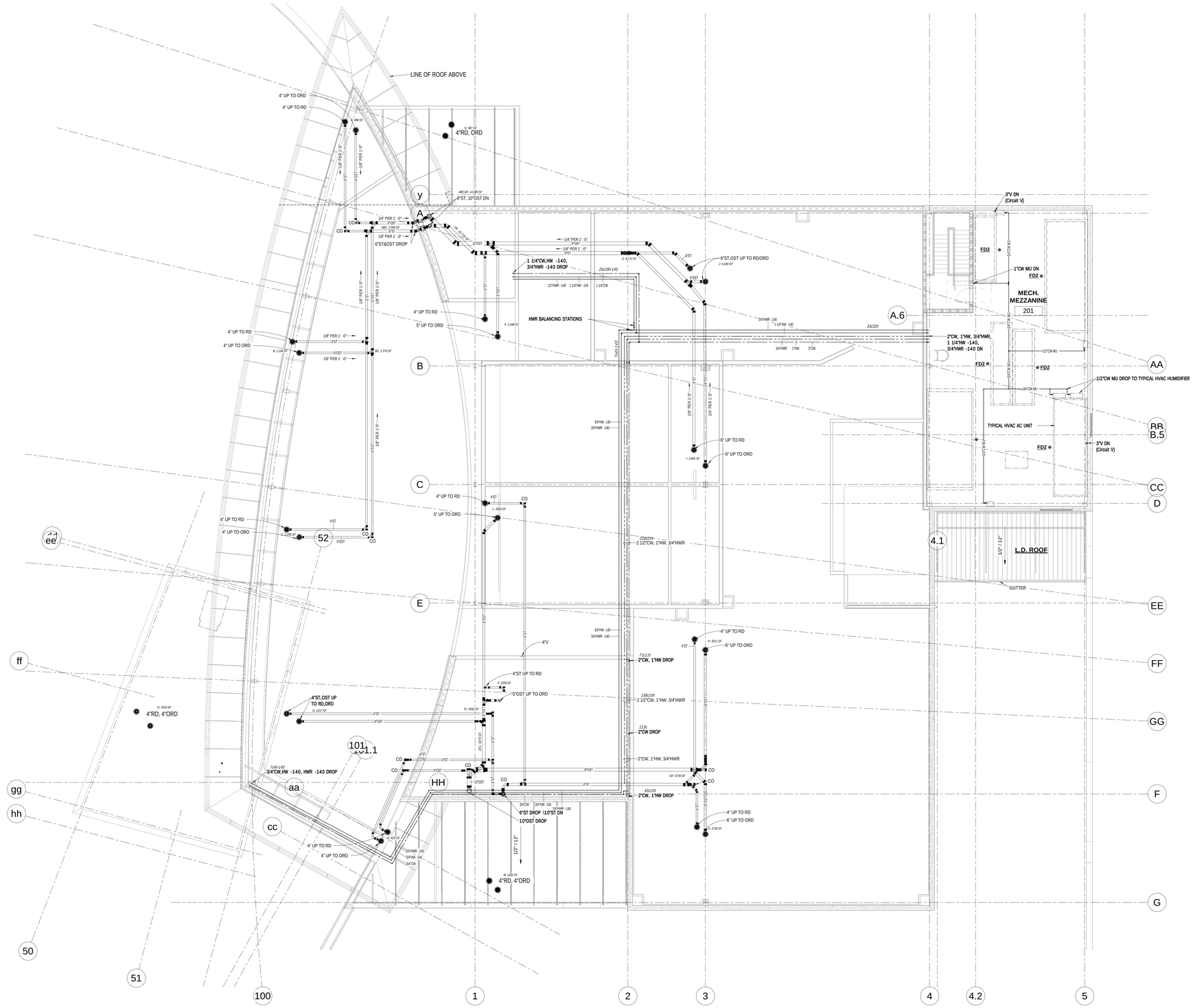
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PLUMBING 1ST FLOOR PLAN

P2.01

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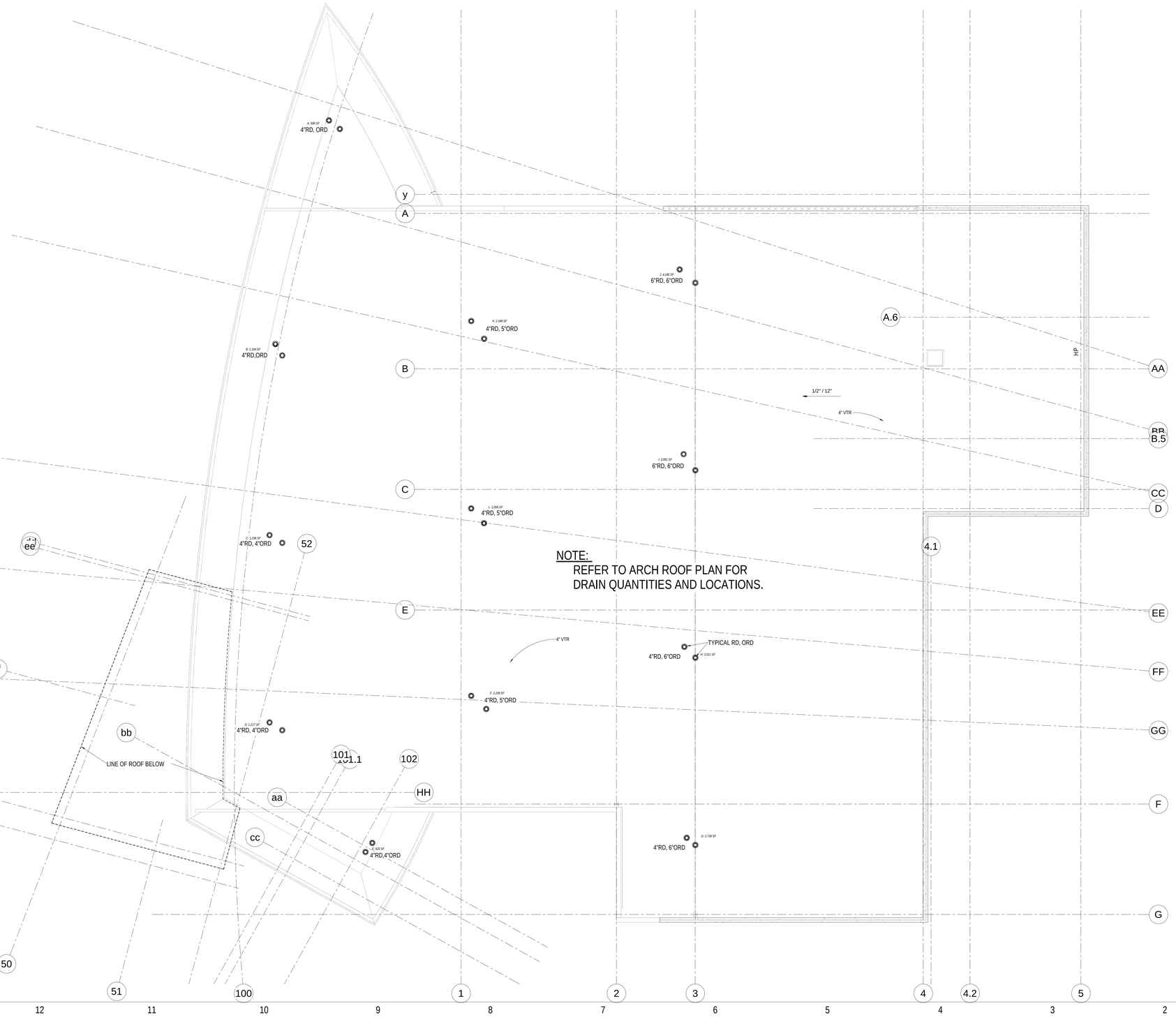
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PLUMBING 2ND FLOOR AND LOW ROOF PLAN

P2.02

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PLAN NORTH



NOTE:
REFER TO ARCH ROOF PLAN FOR
DRAIN QUANTITIES AND LOCATIONS.

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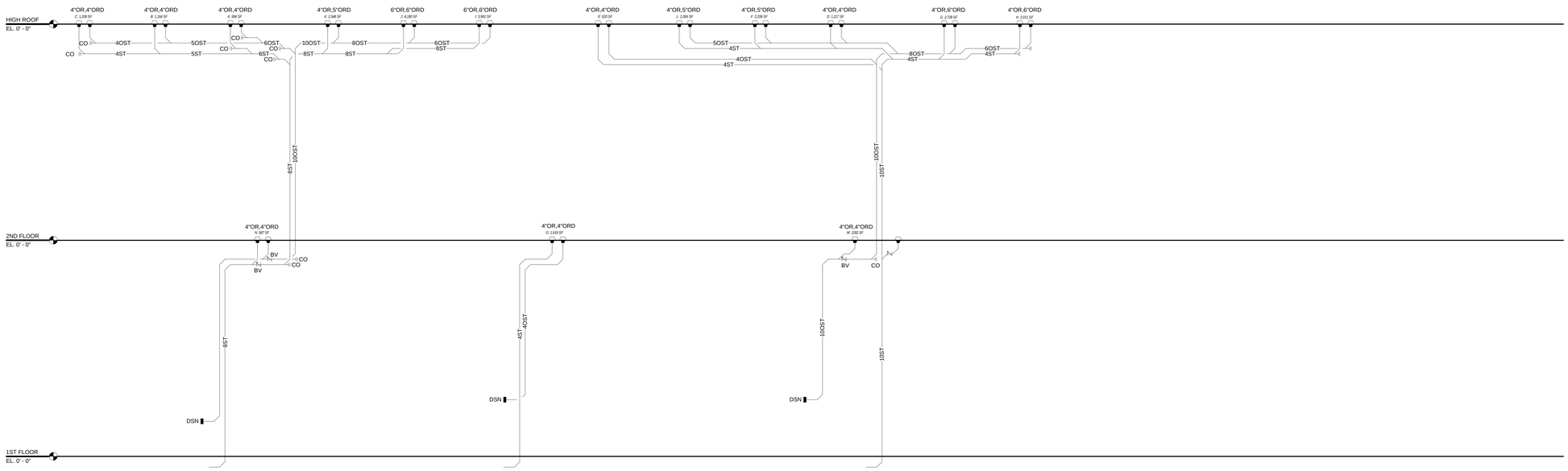
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PLUMBING HIGH ROOF PLAN

P2.03

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PLUMBING STORM RISER DIAGRAM

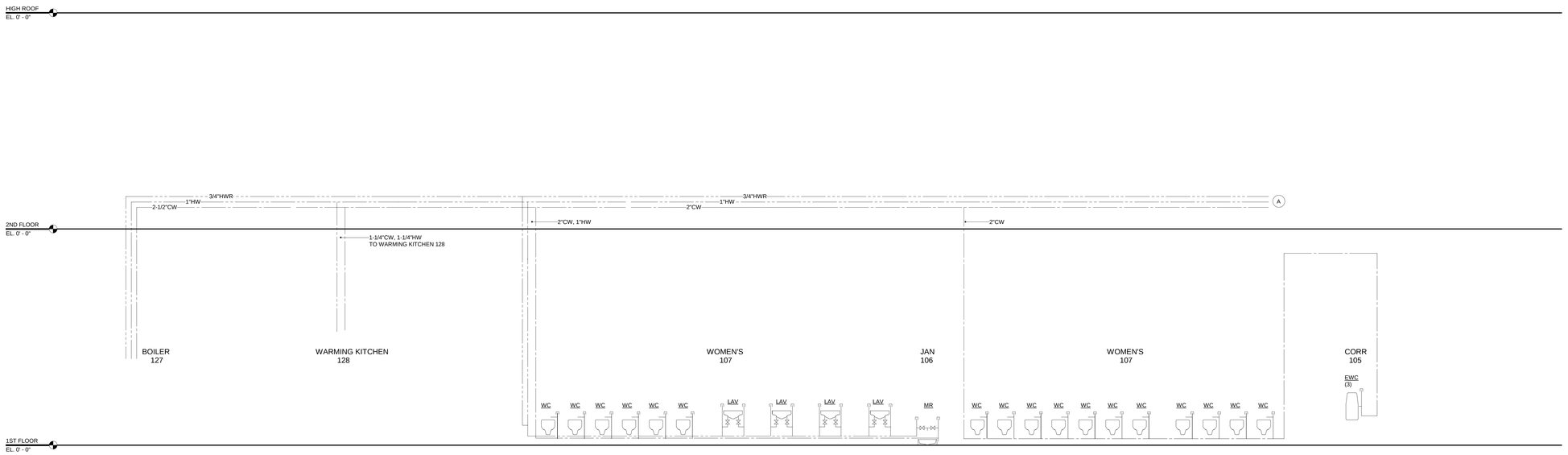
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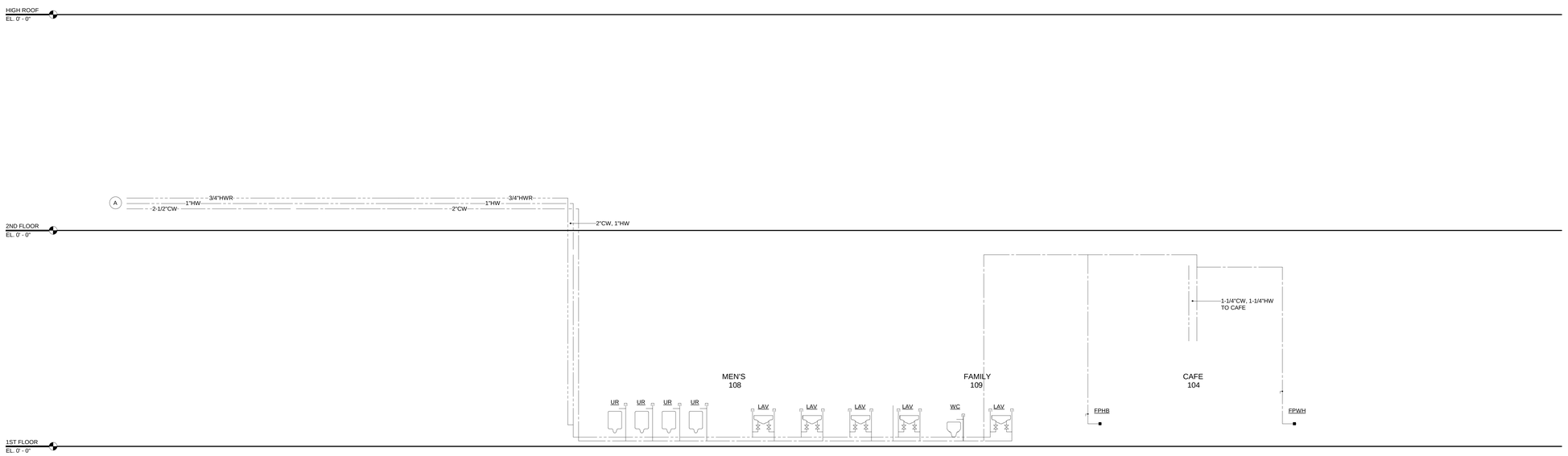
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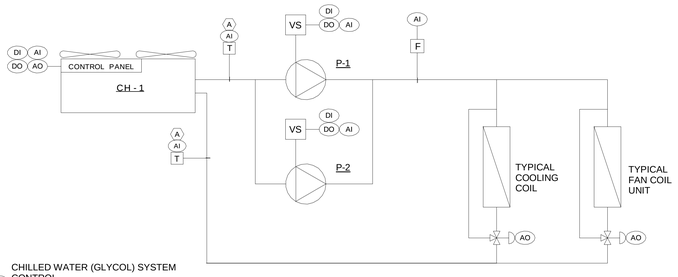
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PLUMBING WATER RISER DIAGRAM

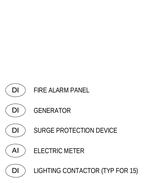
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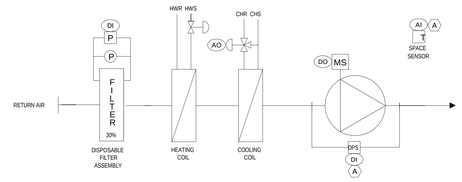
PLAN NORTH



1 CHILLED WATER (GLYCOL) SYSTEM CONTROL
N.T.S



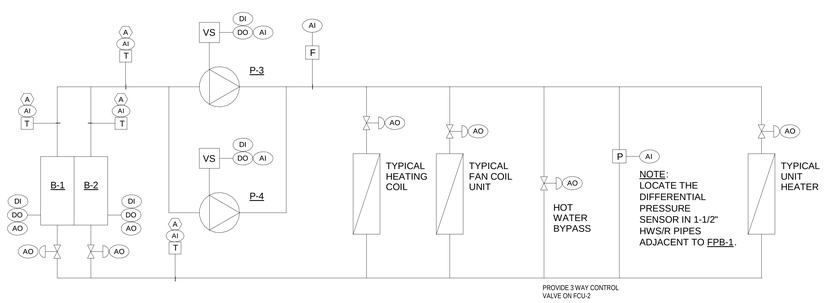
2 ELECTRICAL POINTS
N.T.S



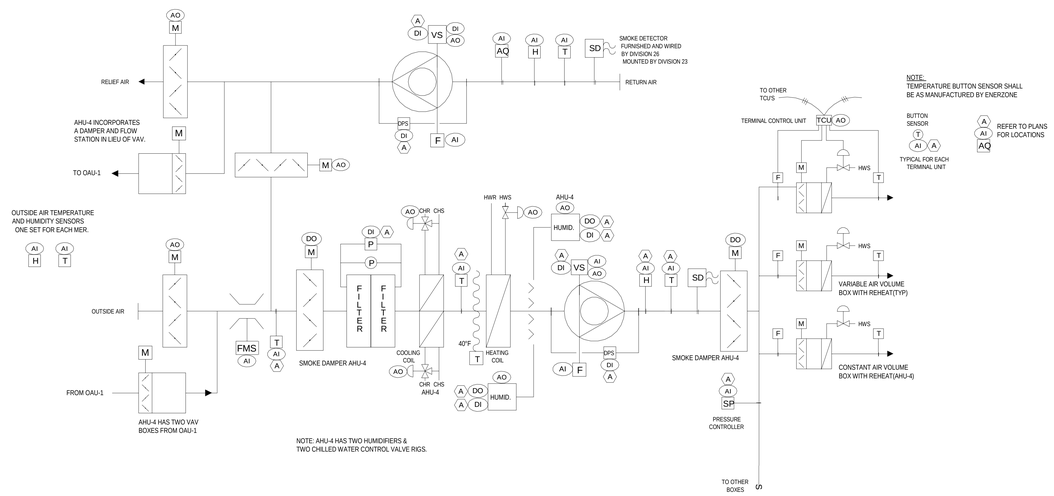
3 FAN COIL SYSTEM CONTROL
N.T.S

SYMBOL LIST	
SYMBOL	DESCRIPTION
	FAN (OR PUMP)
	OPPOSED BLADE DAMPER
	HEATING (OR COOLING) COIL
	HUMIDIFIER
	AUTOMATIC 2 - WAY VALVE
	AUTOMATIC 3 - WAY VALVE
MS	MOTOR STARTER
VS	VARIABLE SPEED DRIVE UNIT
SD	SMOKE DETECTOR
DI	DDC DIGITAL INPUT POINT
DO	DDC DIGITAL OUTPUT POINT
AI	DDC ANALOG INPUT POINT
AO	DDC ANALOG OUTPUT POINT
A	DDC ALARM POINT
T	TEMPERATURE TRANSMITTER
H	HUMIDITY TRANSMITTER
P	DIFFERENTIAL PRESSURE TRANSMITTER
F	FLOW TRANSMITTER
SP	PRESSURE TRANSMITTER
M	MOTOR
AQ CO2	AIR QUALITY TRANSMITTER(CO2)
FMS	AIR FLOW MEASURING STATION

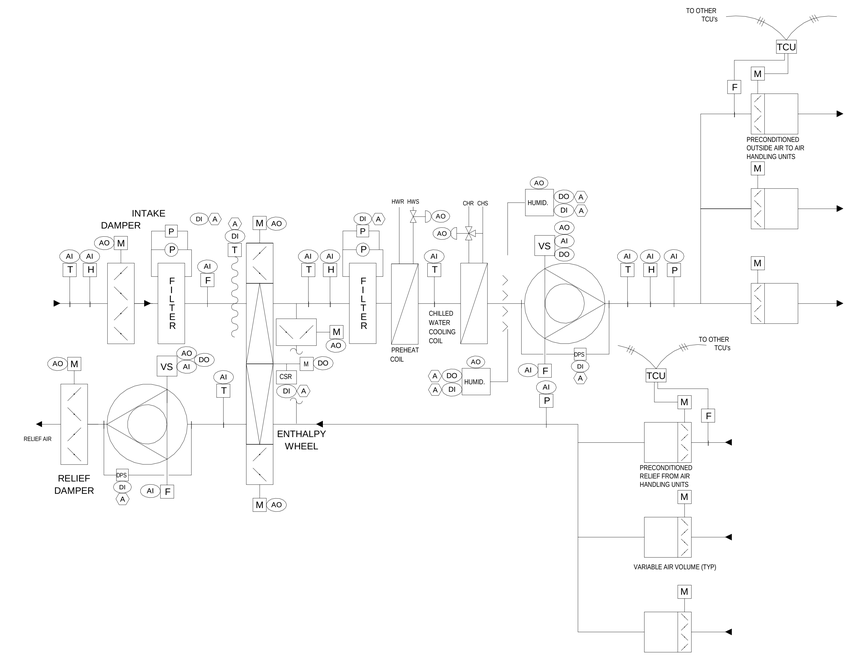
4 FLOW & CONTROL SYMBOL LIST
N.T.S



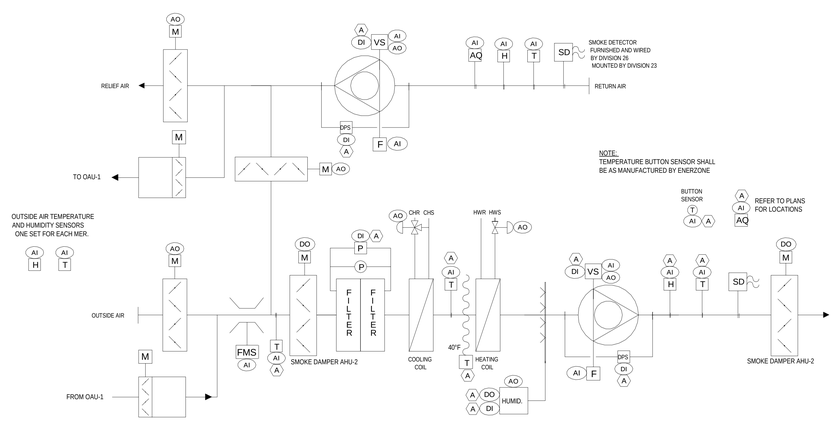
5 HOT WATER SYSTEM CONTROL
N.T.S



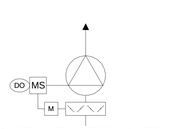
7 MUTIPLE ZONE AHU (AHU-1,4a)
N.T.S



8 OUTSIDE AIR PROCESSING UNIT OAU-1
N.T.S



9 SINGLE ZONE AHU SYSTEM (AHU-2,3,5)
N.T.S



10 TYPICAL EXAHUST FAN CONTROL
N.T.S

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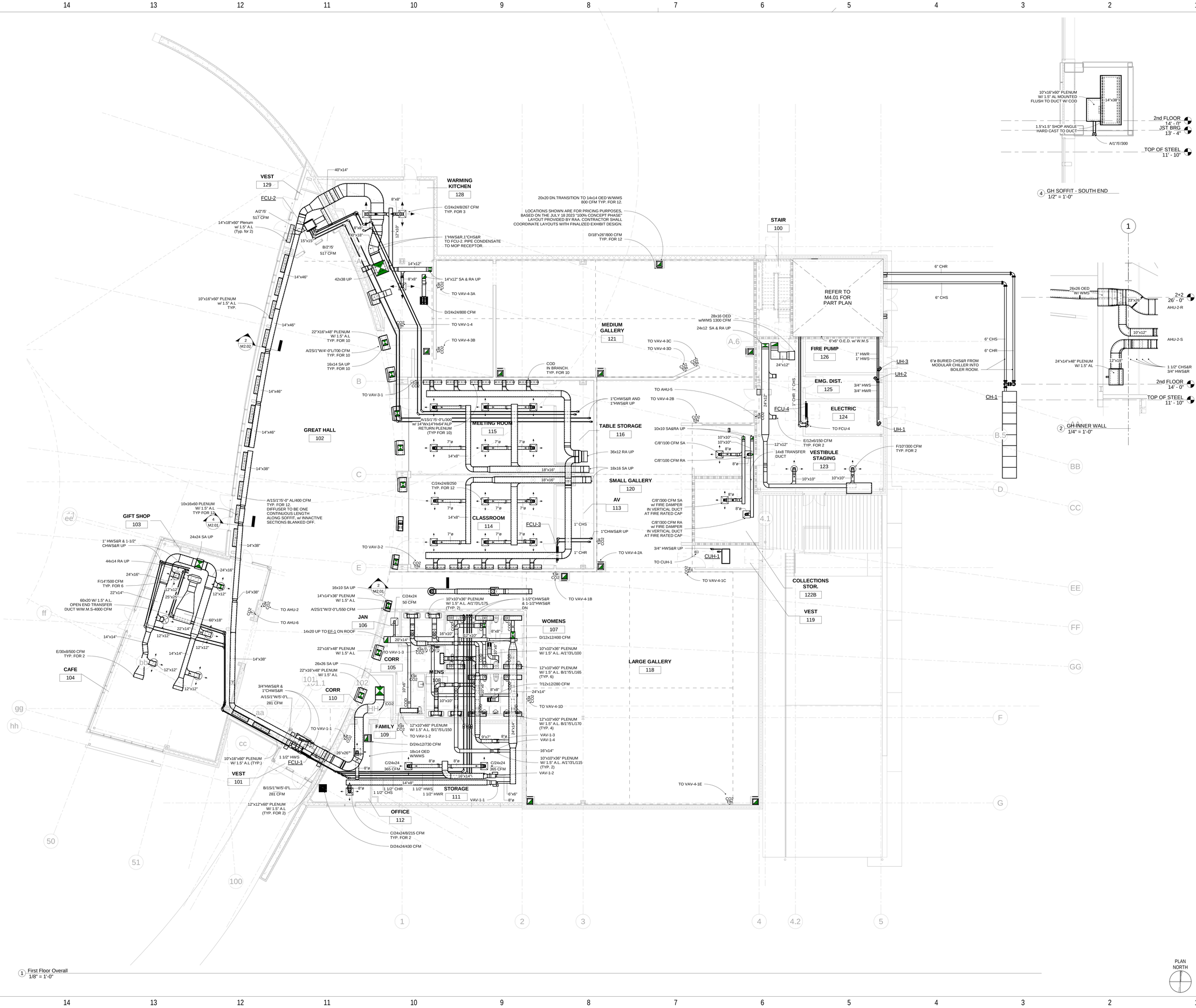
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Flow & Control Sheet

M0.01

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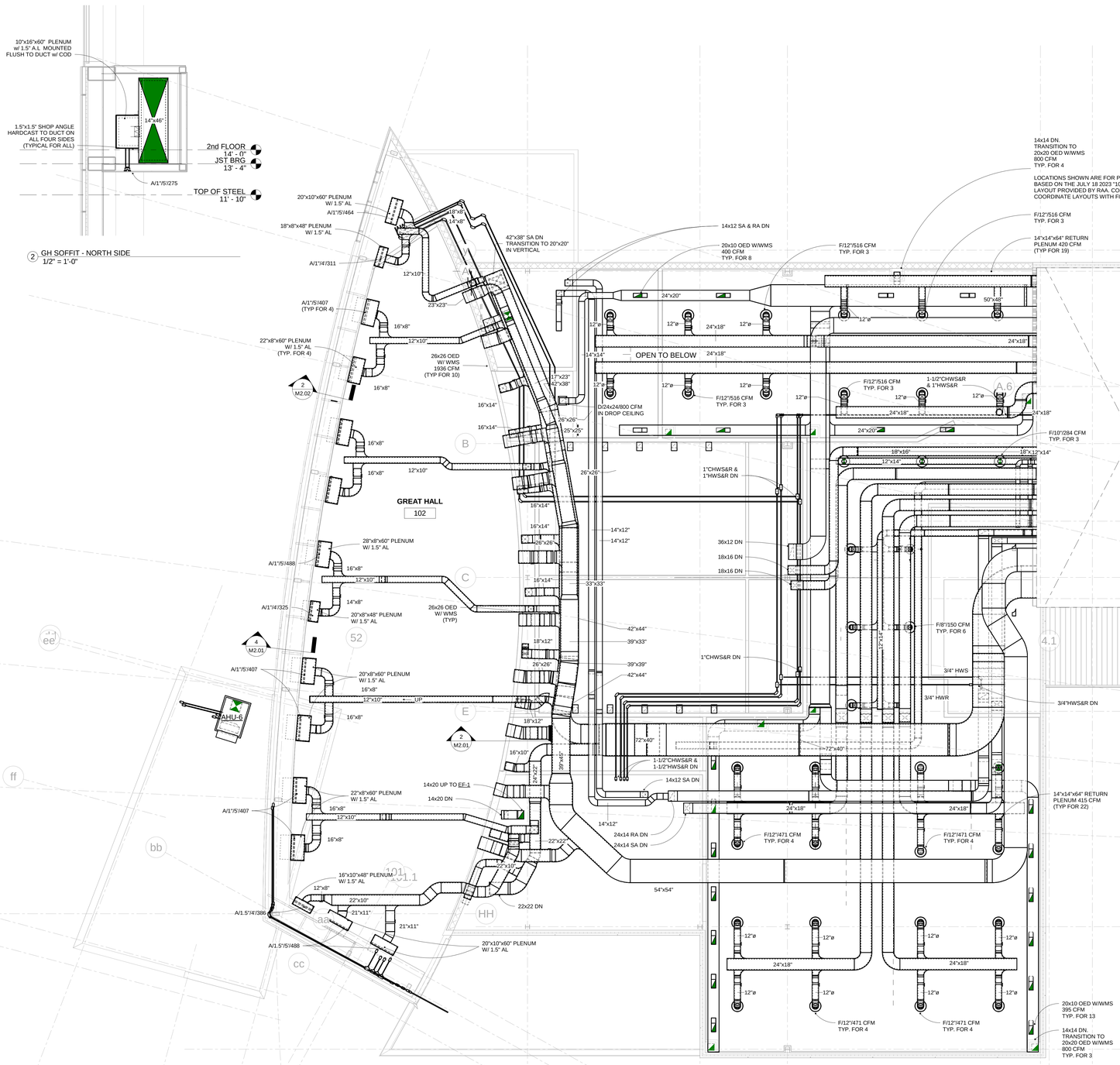
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Mechanical 1st Floor Plan

M2.01

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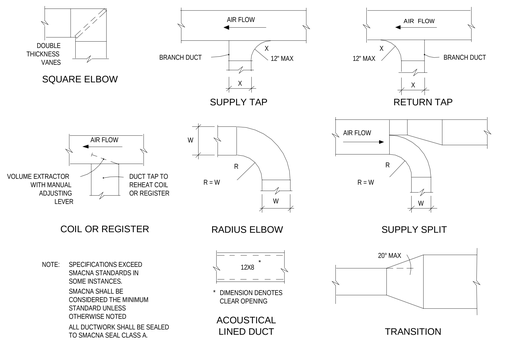
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Mechanical 2nd Floor Plan

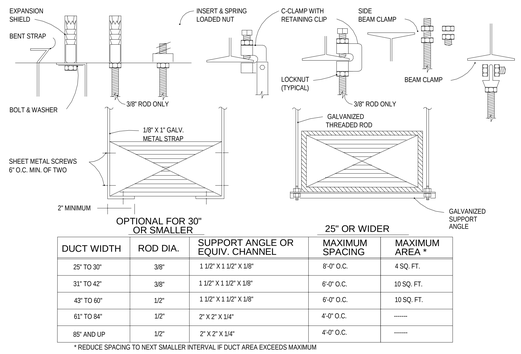
M2.02

ISSUE DATE: JULY 31, 2023
PROJECT NUMBER: Altieri 2246
DRAWN BY: NC
CHECKED BY: Altieri

PLAN NORTH



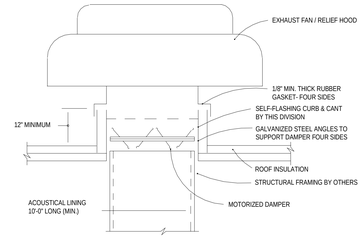
1 DUCT CONSTRUCTION DETAIL
N.T.S



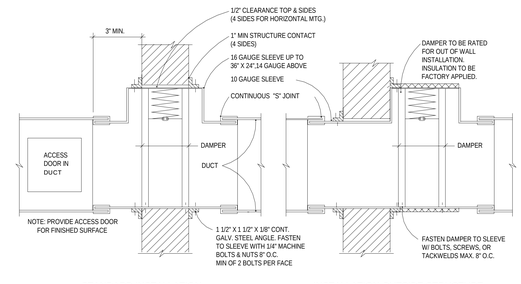
DUCT WIDTH	ROD DIA.	SUPPORT ANGLE OR EQUIV. CHANNEL	MAXIMUM SPACING	MAXIMUM AREA *
25" TO 30"	3/8"	1 1/2" X 1 1/2" X 1/8"	8'-0" O.C.	4 SQ. FT.
31" TO 42"	3/8"	1 1/2" X 1 1/2" X 1/8"	6'-0" O.C.	10 SQ. FT.
43" TO 60"	1/2"	1 1/2" X 1 1/2" X 1/8"	6'-0" O.C.	10 SQ. FT.
61" TO 84"	1/2"	2" X 2" X 1/4"	4'-0" O.C.	-------
85" AND UP	1/2"	2" X 2" X 1/4"	4'-0" O.C.	-------

* REDUCE SPACING TO NEXT SMALLER INTERVAL IF DUCT AREA EXCEEDS MAXIMUM

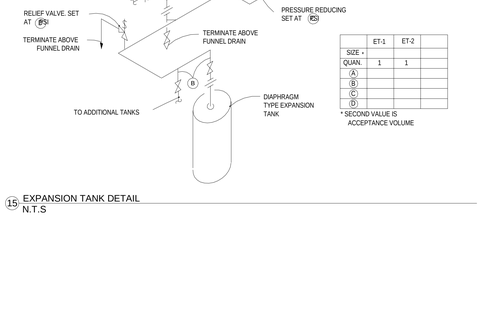
2 DUCT SUPPORT DETAIL
N.T.S



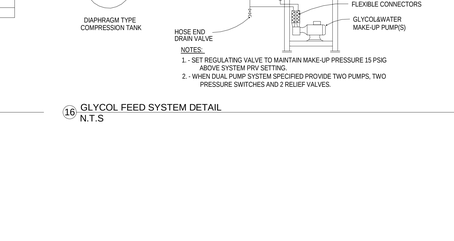
3 EXHAUST FAN/RELIEF HOOD DETAIL
N.T.S



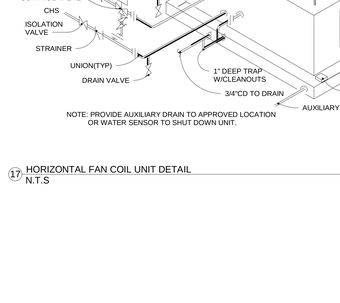
4 FIRE DAMPER MOUNTING DETAIL
N.T.S



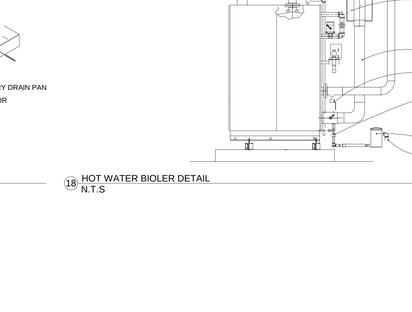
5 FLUE PIPING ROOF PENETRATION DETAIL
N.T.S



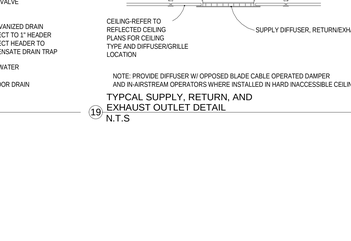
6 LINEAR DIFFUSER DETAIL
N.T.S



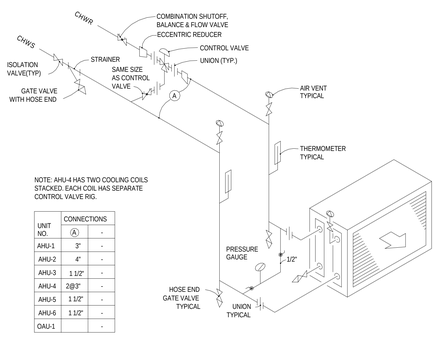
7 LOUVER PLENUM DETAIL
N.T.S



8 VARIABLE AIR VOLUME BOX INSTALLATION DETAIL
N.T.S

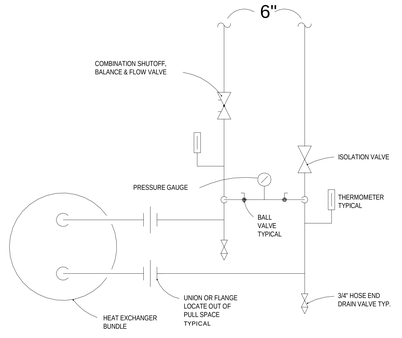


9 CHEMICAL SHOT FEEDER DETAIL
N.T.S

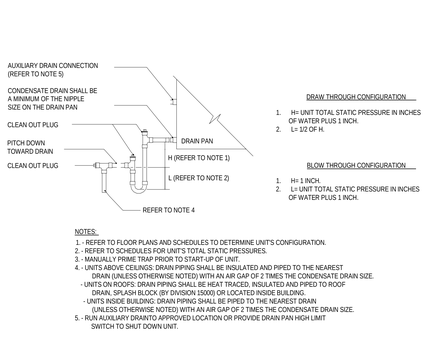


UNIT NO.	CONNECTIONS Ⓐ	
AHU-1	3"	-
AHU-2	4"	-
AHU-3	1 1/2"	-
AHU-4	2@3"	-
AHU-5	1 1/2"	-
AHU-6	1 1/2"	-
OAU-1		-

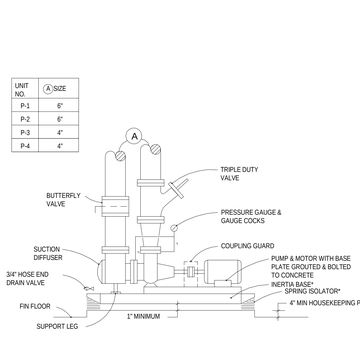
10 CHILLED WATER COOLING COIL DETAIL
N.T.S



11 CHILLER CONNECTIONS DETAIL
N.T.S

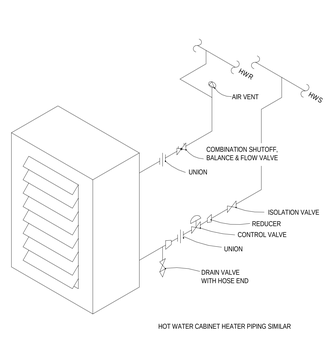


12 COOLING COIL DRAIN TRAP DETAIL
N.T.S



UNIT NO.	Ⓐ SIZE
P-1	6"
P-2	6"
P-3	4"
P-4	4"

13 END SUCTION PUMP DETAIL
N.T.S

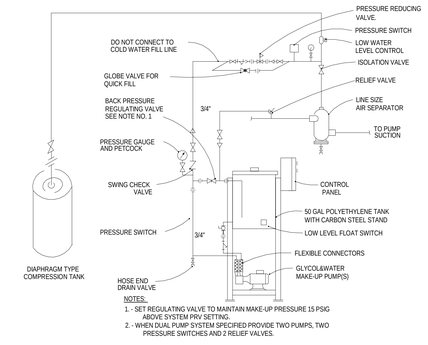


14 HOT WATER UNIT HEATER DETAIL
N.T.S

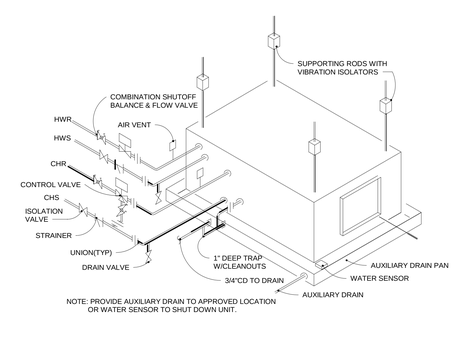
	ET-1	ET-2
SIZE *		
QUAN.	1	1
Ⓐ		
Ⓑ		
Ⓒ		
Ⓓ		

* SECOND VALUE IS ACCEPTANCE VOLUME

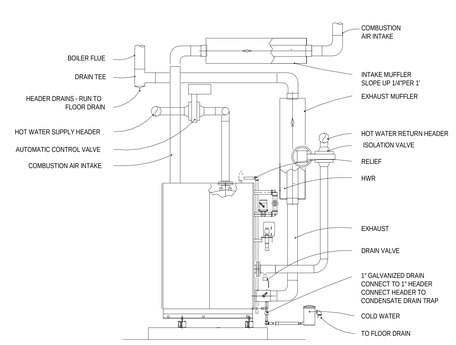
15 EXPANSION TANK DETAIL
N.T.S



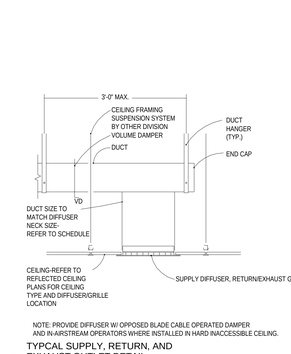
16 GLYCOL FEED SYSTEM DETAIL
N.T.S



17 HORIZONTAL FAN COIL UNIT DETAIL
N.T.S



18 HOT WATER BIOLER DETAIL
N.T.S



NOTE: PROVIDE DIFFUSER W/ OPPOSED BLADE CABLE OPERATED DAMPER AND IN-AIRSTREAM OPERATORS WHERE INSTALLED IN HARD INACCESSIBLE CEILING.

19 TYPCAL SUPPLY, RETURN, AND EXHAUST OUTLET DETAIL
N.T.S

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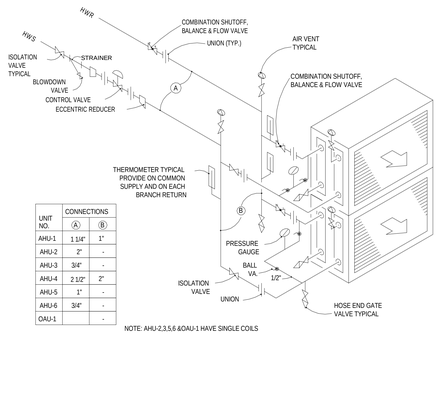
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Mechanical Detail Sheet No. 1

M3.01

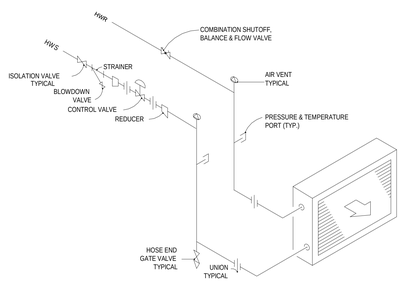
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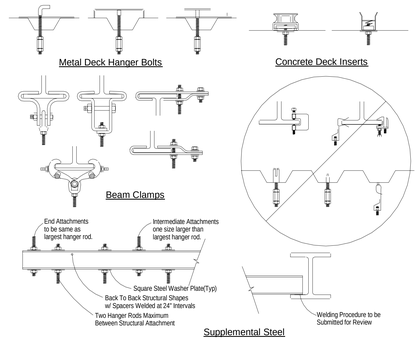
UNIT NO.	CONNECTIONS Ⓐ	CONNECTIONS Ⓑ
AHU-1	1 1/4"	1"
AHU-2	2"	-
AHU-3	3/4"	-
AHU-4	2 1/2"	2"
AHU-5	1"	-
AHU-6	3/4"	-
OAU-1		-

NOTE: AHU-2,3,5,6 &OAU-1 HAVE SINGLE COILS

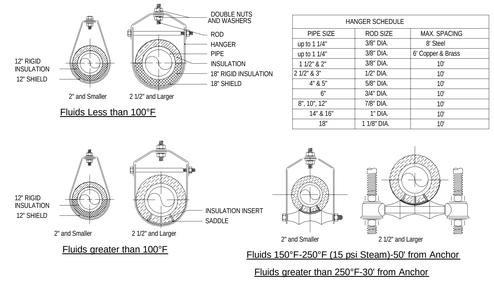
1 HOT WATER HEATING COIL DETAIL
N.T.S



2 HOT WATER REHEAT COIL DETAIL
N.T.S



3 PIPE HANGER ATTACHEMENT DETAIL
N.T.S



HANGER SCHEDULE		
PIPE SIZE	ROD SIZE	MAX. SPACING
up to 1 1/4"	3/8" DIA.	8' Steel
up to 1 1/4"	3/8" DIA.	6' Copper & Brass
1 1/2" & 2"	3/8" DIA.	10'
2 1/2" & 3"	1/2" DIA.	10'
4" & 5"	5/8" DIA.	10'
6"	3/4" DIA.	10'
8", 10", 12"	7/8" DIA.	10'
14" & 16"	1" DIA.	10'
18"	1 1/8" DIA.	10'

4 PIPE HANGER DETAIL
N.T.S

SYMBOL LIST	
SYMBOL	DESCRIPTION
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
PD	PUMP DISCHARGE
CD	CONDENSATE DRAIN
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BALANCING VALVE
	PNEUMATIC CONTROL VALVE
	THREE WAY VALVE
	HOSE END DRAIN VALVE
	STRAINER WITH BLOW DOWN VALVE
MV	MOTORIZED VALVE
	UNION
	TOP TAKE OFF
	BOTTOM TAKE OFF
	ECCENTRIC REDUCER
	AIR VENT
	PRESSURE GAUGE
	THERMOMETER
	PIPE GUIDE
	ANCHOR POINT
EJ	EXPANSION JOINT
	FLEXIBLE PIPE CONNECTION
EOM	END OF MAIN DRIP
LD,CD	LINEAR, CEILING DIFFUSER
LR,CR,TR,BR	LINEAR, CEILING, TOP, BOTTOM REGISTER
LG,CG,TG,BG	LINEAR, CEILING, TOP, BOTTOM GRILLE
M	MOTORIZED DAMPER
SD	SMOKE DAMPER
V.D., C.O.D.	VOLUME DAMPER, CORD OPERATED DAMPER
	VOLUME DAMPER
F	FIRE DAMPER
S	COMBINATION FIRE / SMOKE DAMPER
N, NK	NECK
FC	FLEXIBLE CONNECTION
RA	RETURN AIR
	RETURN OR EXHAUST AIR
OAI	OUTSIDE AIR INTAKE
AD	ACCESS DOOR
ID	INSIDE DIMENSION
12 X 8	LINED DUCT - SIZE IS CLEAR INSIDE DIM.

5 PLAN SYMBOL LIST
N.T.S

6 STEAM HUMIDIFIER DETAIL
N.T.S

7 FIRE DAMPER DETAIL
N.T.S

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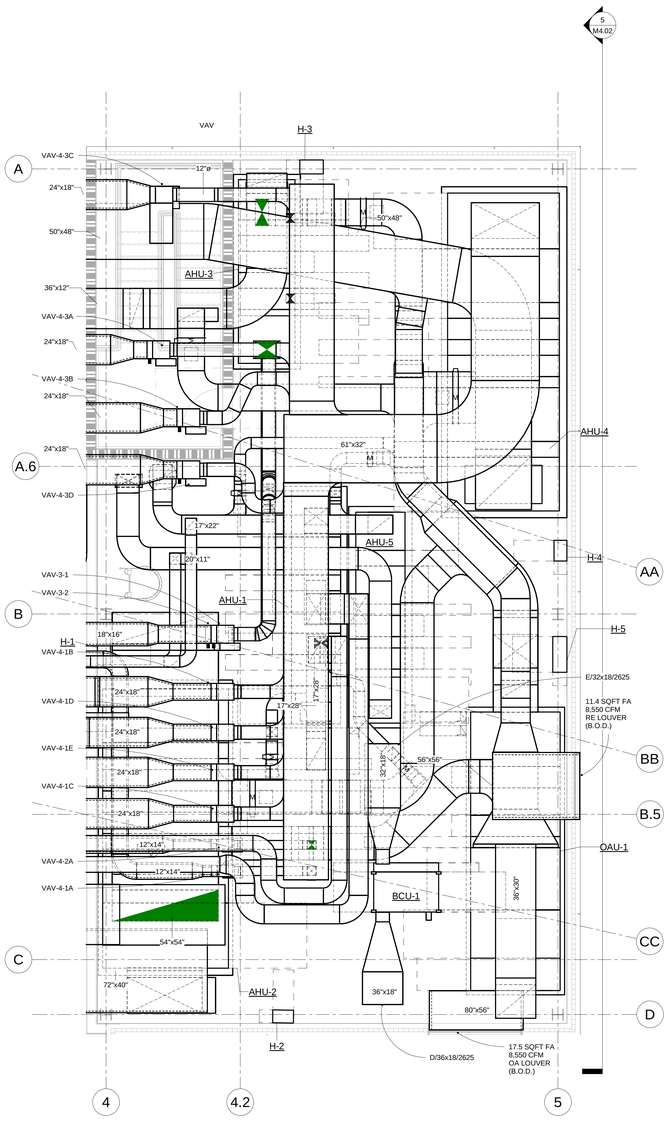
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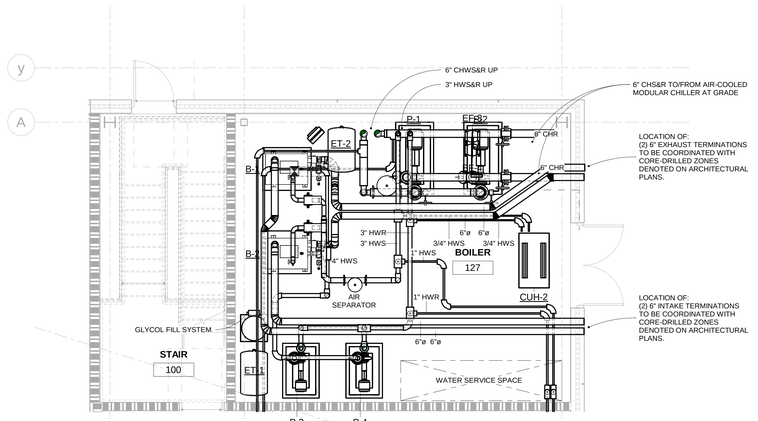
Mechanical Detail Sheet No. 2

M3.02

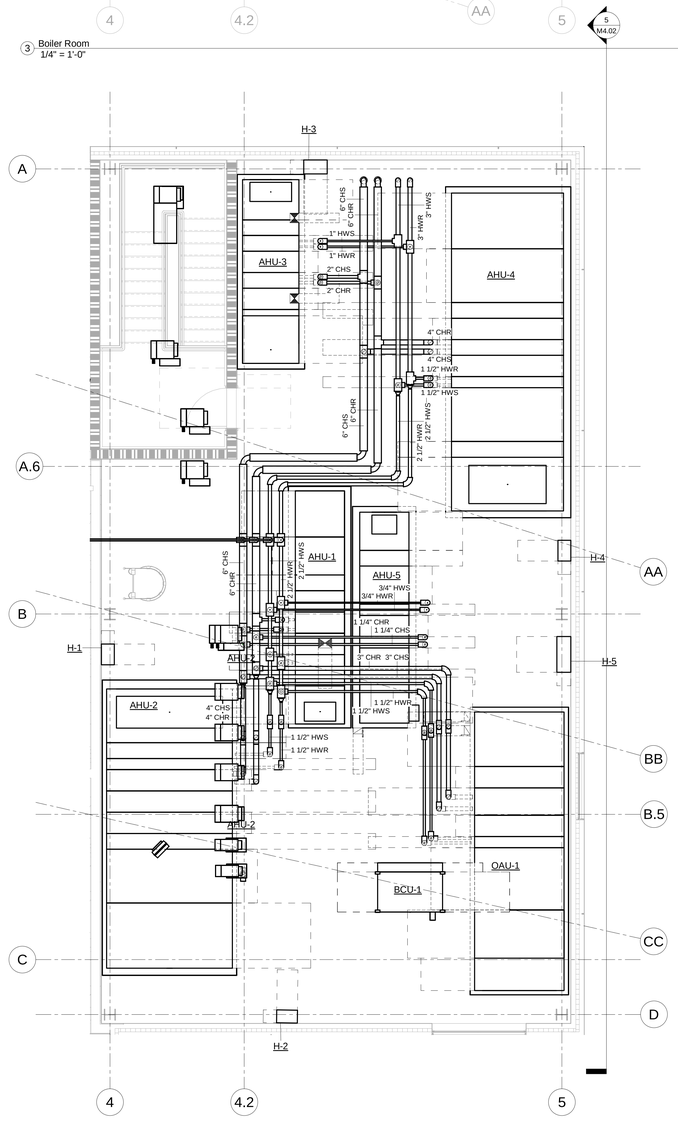
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1 Mechanical Mezzanine - Ductwork
1/4" = 1'-0"



3 Boiler Room
1/4" = 1'-0"



2 Mechanical Mezzanine - Piping
1/4" = 1'-0"

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Mechanical Room Part Plans

M4.01

PLAN NORTH

ISSUE DATE: JULY 31, 2023
PROJECT NUMBER: Alteri 2246
DRAWN BY: NC
CHECKED BY: Alteri

AIR HANDLING UNITS

UNIT NO	LOCATION	SERVES	FAN SECTION: VENT AIR	CFM	TOTAL SP	WHEEL TYPE	QUANTITY	MAX BHP	ELECTRICAL: HP	VOLTS	PH	RPM	CHILLED WATER COIL: CAP MBH	AIR DATA: EAT	LAT	WATER DATA: EWT	LWT	GPM	VEL FPM	AIR PD	WATER PD	ROWS FINS	HOT WATER COIL: CAP MBH	AIR DATA: EAT	LAT	WATER DATA: EWT	LWT	GPM	VEL FPM	AIR PD	WATER PD	ROWS FINS	MAKE/MODEL	REMARKS
AHU-1	MEZZANINE MECH. ROOM	CATERING / GENERAL	287	2700	4.36" TSP 1.5" ESP	PLENUM	1		5	460	3	1800	88.3 TOT 67.45 SEN	76.7°F DB 64.7°F WB	54°F DB 53.76°F WB	42°F	52°F	19.12	506	.734"	1.64'	6 ROWS .124 FPF	155.0	50.0°F	103°F	140°F	100°F	7.78	506	0.37"	0.5%	4 ROWS 119 FPF	TRANE / CSAA 006	30% P.G. CHILLED WATER
AHU-2	MEZZANINE MECH. ROOM	GREAT HALL	5639	19500	4.54" TSP 1.5" ESP	PLENUM	2		(2) 15	460	3	1800	903 TOT 524 SEN	79.3°F DB 78.8°F WB	54°F DB 53.9°F WB	42°F	52°F	375.2	506	1.19"	19.29'	8 ROWS 139 FPF	422.9	55°F	75°F	140°F	100°F	21.2	520	.125"	.98'	1 ROWS 131 FPF	TRANE / CSAA 040	30% P.G. CHILLED WATER
AHU-3	MEZZANINE MECH. ROOM	MEETING/ CLASSROOM	1277	3145	3.92" TSP 1.5" ESP	AIRFOIL	1		8.05	460	3	1750	181.6 TOT 97.87 SEN	81.6°F DB 71.3°F WB	54°F DB 53.76°F WB	42°F	52°F	39.37	401	.520"	10.6'	6 ROWS 101 FPF	125	55°F	91°F	140°F	100°F	6.26	438	.251"	0.06'	4 ROWS 118 FPF	TRANE / CSAA 008	30% P.G. CHILLED WATER
AHU-4A	MEZZANINE MECH. ROOM	GALLERIES	2881	15500	4.52" TSP 1.5" ESP	PLENUM	2		(2) 10	460	3	1750	619.14 TOT 410.3 SEN	78°F DB 66.8°F WB	54°F DB 53.76°F WB	42°F	52°F	134	444	.628"	22.6'	6 ROWS 118 FPF	362.0	55°F	77°F	140°F	100°F	18.53	475	.097"	1.45'	1 ROWS 120 FPF	TRANE / CSAA 035	30% P.G. CHILLED WATER
AHU-5	MEZZANINE MECH. ROOM	COLLECTIONS	178	1500	3.58" TSP 1.5" ESP	AIRFOIL	1		4.02	460	3	1750	46.83 TOT 37.77 SEN	76.9°F DB 64°F WB	54°F DB 53.43°F WB	42°F	52°F	10.14	332	0.29"	3.11'	4 ROWS 134 FPF	32.53	60°F	80	140°F	100°F	1.63	375	0.085"	0.38'	1 ROWS 143 FPF	TRANE /CSAA 004	30% P.G. CHILLED WATER
AHU-6	LOW WEST ROOF	RETAIL SHOP	662	4000	.-" TSP .5" ESP	AIRFOIL	1		2	460	3	1750	137 TOT 100 SEN	80°F DB 67F WB	56°F DB 55°F WB	42°F	52°F	25	< 500	<1"	6.8'	4 ROWS - FPF	135	55°F	85.21	140°F	112°F	10	<500	<1"	1.36'	2 ROWS - FPF	MAGICAIRE / BR-40	30% P.G. CHILLED WATER
OAU-1	MEZZANINE MECH. ROOM	-	8550	8550	.-" TSP 1" ESP	AIRFOIL	2		5	460	3	1750		91°F DB 78°F WB		42°F	52°F	TBD	< 500	<1"	<7'	- ROWS - FPF		26.0°F		140°F	100°F	TBD	<500	<1"	<5'	- ROWS - FPF	TRANE / CSAA 30	30% P.G. CHILLED WATER

CHILLER

UNIT NO	LOCATION	TYPE	CAP TONS	EVAPORATOR: GPM	EWT	LWT	PD	COMPRESSORS: TYPE	NO	STEP	SDT	ELECTRICAL: KW	VOLTS	PH	MCA	MAKE/MODEL	REMARKS
CH-1	NEAR LOADING DOCK	AIR COOLED	150	428	54°F	42°F	10.8'	-	2	-	-	261	460	3	444	MULTISTACK ASF240	

BOILERS

UNIT NO	LOCATION	TYPE	GROSS MBH	EFFICIENCY	FUEL	FIRING RATE	OPER PRESS	ELECTRICAL: HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
B-1	BOILER ROOM	CONDENSING	750	94%	NAT. GAS	-	7" W.C.	4.2AMPS	120	1	-	AERCO / BMKP750	
				97%									
B-2	BOILER ROOM	CONDENSING	750	94%	NAT. GAS	-	7" W.C.	4.2AMPS	120	1	-	AERCO / BMKP750	
				97%									

PUMPS

UNIT NO	LOCATION	SYSTEM SERVED	FLUID	GPM	MAX TEMP	HEAD FT	MAX BHP	ELECTRICAL: HP	VOLTS	PH	RPM	TYPE	MAKE/MODEL	REMARKS
P-1	BOILER ROOM	CHILLED WATER	20% P.G.	430	100°	60'	8.53	15	460	3	1750	END SUCTION	BELL&GOSSETT / 1510-3BC	79.57% PUMP EFF.
P-2	BOILER ROOM	CHILLED WATER	20% P.G.	430	100°	60'	8.53	15	460	3	1750	END SUCTION	BELL&GOSSETT / 1510-3BC	79.57% PUMP EFF.
P-3	BOILER ROOM	HEATING HOT WATER	WATER	200	200°	50'	3.51	7.5	460	3	1750	END SUCTION	BELL&GOSSETT / 1510-3E	72.79% PUMP EFF.
P-4	BOILER ROOM	HEATING HOT WATER	WATER	200	200°	50'	3.51	7.5	460	3	1750	END SUCTION	BELL&GOSSETT / 1510-3E	72.79% PUMP EFF.

FAN COIL UNITS

UNIT NO	CFM	EXT SP	COOLING COIL: MBH	EAT	LAT	EWT	LWT	GPM	PD	HEATING COIL: MBH	EAT	LAT	EWT	LWT	GPM	PD	ELECTRICAL: HP	VLT	PH	RPM	MAKE/MODEL	REMARKS
FCU-1	281	.5"	9.5	80°F DB 67°F WB	57.1°F DB 55.5°F WB	42°F	52°F	1.97	5.78	7.0	-°F	82.6°F	140°F	115°F	.55	.86	82 W	120	1	1750	TRANE / UNI 30	S. VESTIBULE 101
FCU-2	517	.5"	14.5	80°F DB 67°F WB	57.9°F DB 56.8°F WB	42°F	52°F	2.37	2.45	7.8	-°F	81.6°F	140°F	100°F	.55	1.34	55 W	120	1	1750	TRANE / UNI 60	N. VESTIBULE 129
FCU-3	1623	.5"	37.5 (T) 25.1 (S)	80°F DB 67°F WB	55°F DB 56°F WB	42°F	52°F	8	17.9								1/12	208	1	1750	MHQWW-36-H-1	A/V 114
FCU-4	600	0"	26.5 (T) 17.7 (S)	80°F DB 67°F WB	55°F DB 56°F WB	42°F	52°F	6	14.4								1/20	208	1	1750	MHQWW-24-H-1	ELECTRICAL 123
BCU-1	2625	1"	62.59	75°F DB 50.9°F WB	62.2°F DB 60.2°F WB	42°F	52°F	1.3	2.56	4.2	-°F	104°F	140°F	100°F	1.23	4.6	55 W	120	1	1750	TRANE / BCHE072	MECH MEZZ

CABINET & UNIT HEATERS

UNIT NO	LOCATION	CFM	MBH	AIR DATA: EAT	LAT	WATER DATA: GPM	EWT	LWT	PD	ELECTRICAL: HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
UH-1	ELECTRIC 124	-	2.4	65°F	-					750W	208	1	-	Q-MARK / CBD758	PROVIDE WALL BRACKET
UH-2	EMG. DIST. 125	-	2.4	65°F	-					750W	208	1	-	Q-MARK / CBD758	PROVIDE WALL BRACKET
UH-3	FIRE PUMP ROOM 126	185	5.82	65°F	-	.2	140°F	100°F	.02	1/15	120	1	-	STERLING / RC02	
UH-4	MECHANICAL ROOM	668	38.7	65°F	95.7	1.96	140°F	100°F	1.65	176 W	120	1	-	TRANE / UHSB120	PROVIDE 3 UNITS
CUH-1	E. VESTIBULE 119	350	3.9	70°F	-					3000W	208	1	-	Q-MARK / MUH0381	
CUH-2	BOILER ROOM	850	35.9	65°F	-	3.6	140°F	110°F	.3	1/20	208	3	-	TRANE / UHSA36	

REGISTERS, GRILLES & DIFFUSERS

PLAN DESIGNATION
Symbol
Face Size, Width, Number of Slots
Neck Size, Length
CFM
A ####

PLAN DESIGNATION LEGEND
#S - Number of Slots
#W - Width in Inches
C - Continuous Length
ALP- Acoustical Lined Plenum

SYM	SERVICE	TYPE	MAKE	MODEL	MATERIAL: FINISH	REMARKS	SYM	SERVICE	TYPE	MAKE	MODEL	MATERIAL: FINISH	REMARKS
A	SUPPLY	FLOW BAR	TITUS	FL	ARCHITECT TO CONFIRM ARCHITECT TO CONFIRM	JET THROW	B	RETURN	FLOW BAR	TITUS	FL	ARCHITECT TO CONFIRM ARCHITECT TO CONFIRM	JET THROW
C	SUPPLY	T-BAR	TITUS	OMNI	ARCHITECT TO CONFIRM ARCHITECT TO CONFIRM		D	RETURN OR EXHAUST	GRILLE	TITUS	350FL	ARCHITECT TO CONFIRM ARCHITECT TO CONFIRM	
E	SUPPLY	GRILLE	TITUS	300FL	ARCHITECT TO CONFIRM ARCHITECT TO CONFIRM		F	SUPPLY	CEILING DIFFUSER	TITUS	TMRA	ARCHITECT TO CONFIRM ARCHITECT TO CONFIRM	

FANS

UNIT NO	LOCATION	SYSTEM SERVED	TYPE	CFM	SP	MAX BHP	FAN RPM	TIP SPEED	SOUND	ELECTRICAL: HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
EF-1	HIGH ROOF	TOILET EXHAUST	UPBLAST	1,650	.75"	.19	1501	-	8.7 SONES	1/4	120	1	1750	GREENHECK / CUE-120-VG	

VOLUME BOXES

UNIT NO	LOCATION	SERVES	CFM: DES	MIN	SP	DUCT CONN: INLET	OUTLET	REHEAT COIL: MBH	EAT	LAT	PD	EWT	LWT	GPM	PD	MAKE/MODEL	REMARKS
VAV-1-1	STORAGE 111	OFFICE 112	430	129	-	6"Ø	12x8	13.9	50°F	80°F	-	140°F	101°F	0.7	-	TITUS / DESV08	
VAV-1-2	STORAGE 111	STORAGE 111	730	219	-	8" Ø	12x10	23.6	50°F	80°F	-	140°F	101°F	1.2	-	TITUS / DESV08	
VAV-1-3	STORAGE 111	MENS 108 WOMENS 107	680	204	-	8" Ø	12x10	22.1	50°F	80°F	-	140°F	101°F	1.1	-	TITUS / DESV08	
VAV-1-4	STORAGE 111	WARMING KITCHEN 128	801	241	-	8" Ø	12x10	26	50°F	80°F	-	140°F	101°F	1.3	-	TITUS / DESV08	
VAV-3-1	MECH RM	MEETING RM 115	1500	450	-	12" Ø	16x15	48.6	50°F	80°F	-	140°F	101°F	2.5	-	TITUS / DESV12	
VAV-3-2	MECH RM	CLASSROOM 114	1500	450	-	12" Ø	16x15	48.6	50°F	80°F	-	140°F	101°F	2.5	-	TITUS / DESV12	
CV/RH-4-1A	MECH RM	LARGE GALLERY 121	820	820	-	10" Ø	14x12	26.6	50°F	80°F	-	140°F	101°F	1.4	-	TITUS / DESV10	
CV/RH-4-1B	MECH RM	LARGE GALLERY 121	1,845	1,845	-	12" Ø	16x15	59.8	50°F	80°F	-	140°F	101°F	3.1	-	TITUS / DESV12	
CV/RH-4-1C	MECH RM	LARGE GALLERY 121	1,845	1,845	-	12" Ø	16x15	59.8	50°F	80°F	-	140°F	101°F	3.1	-	TITUS / DESV12	
CV/RH-4-1D	MECH RM	LARGE GALLERY 121	1,845	1,845	-	12" Ø	16x15	59.8	50°F	80°F	-	140°F	101°F	3.1	-	TITUS / DESV12	
CV/RH-4-1E	MECH RM	LARGE GALLERY 121	1,845	1,845	-	12" Ø	16x15	59.8	50°F	80°F	-	140°F	101°F	3.1	-	TITUS / DESV12	
CV/RH-4-2A	MECH RM	SMALL GALLERY 121	850	850	-	10" Ø	14x12	27.6	50°F	80°F	-	140°F	101°F	1.4	-	TITUS / DESV10	
CV/RH-4-2B	MECH RM	SMALL GALLERY 121	850	850	-	10" Ø	14x12	27.6	50°F	80°F	-	140°F	101°F	1.4	-	TITUS / DESV10	
CV/RH-4-3A	MECH RM	MEDIUM GALLERY 121	1,550	1,550	-	12" Ø	16x15	50.2	50°F	80°F	-	140°F	101°F	2.6	-	TITUS / DESV12	
CV/RH-4-3B	MECH RM	MEDIUM GALLERY 121	1,550	1,550	-	12" Ø	16x15	50.2	50°F	80°F	-	140°F	101°F	2.6	-	TITUS / DESV12	
CV/RH-4-3C	MECH RM	MEDIUM GALLERY 121	1,550	1,550	-	12" Ø	16x15	50.2	50°F	80°F	-	140°F	101°F	2.6	-	TITUS / DESV12	
CV/RH-4-3D	MECH RM	MEDIUM GALLERY 121	1,550	1,550	-	12" Ø	16x15	50.2	50°F	80°F	-	140°F	101°F	2.6	-	TITUS / DESV12	

HUMIDIFIERS

UNIT NO	LOCATION	SERVES	CFM	CAP LBS/HR	EAT °F/%RH	LAT °F/%RH	W x H	MAX LEN ABSORB.	STEAM PRESS	ELECTRICAL: KW	VOLT	PH	AMPS	MAKE/MODEL	REMARKS
H-1	MEZZANINE, MECH. ROOM	AHU-1	7110	75	-	-	MATCH AHU SIZE	12"	ATM.	20	460	3	25	NEPTRONIC / SKE4-N20	MODULATING CONTROL
H-2	MEZZANINE, MECH. ROOM	AHU-2	16800	105	-	-	MATCH AHU SIZE	12"	ATM.	40	460	3	50	NEPTRONIC / SKE4-N40	MODULATING CONTROL
H-3	MEZZANINE, MECH. ROOM	AHU-3	1270	22	-	-	MATCH AHU SIZE	12"	ATM.	10	460	3	12	NEPTRONIC / SKE4-N10	MODULATING CONTROL
H-4	MEZZANINE, MECH. ROOM	AHU-4	27000	225	-	-	MATCH AHU SIZE	12"	ATM.	80	460	3	96	NEPTRONIC / SKE4-N80	MODULATING CONTROL
H-5	MEZZANINE, MECH. ROOM	AHU-5	2780	12	-	-	MATCH AHU SIZE	12"	ATM.	4	460	3	5	NEPTRONIC / SKE4-04	MODULATING CONTROL
H-OAU	MEZZANINE, MECH. ROOM	OAU-1	10,000	200	-	-	MATCH DUCT SIZE	12"	ATM.	80	460	3	96	NEPTRONIC / SKE4-N80	MODULATING CONTROL

1 SCHEDULE SHEET#1
N.T.S

CJMW ARCHITECTURE
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Winston-Salem, NC 27101
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HICAPS

RAA

SAMET

99% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

#	Description	Date

Museum of the MARINE Community•Corps•Carolinas

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Mechanical Schedule Sheet

M5.01

ISSUE DATE: JULY 31, 2023
PROJECT NUMBER: Altieri 2246
DRAWN BY: NC
CHECKED BY: Altieri

ELECTRICAL SYMBOLS

A	RECESSED FLUORESCENT LIGHTING FIXTURE (LETTER INDICATES TYPE)		POWER OR LIGHTING PANEL
	RECESSED FLUORESCENT LIGHTING FIXTURE ON EMERGENCY CIRCUIT		TELEPHONE TERMINAL BACKBOARD
	SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE	30/20	DISCONNECT SWITCH (SWITCH SIZE/FUSE SIZE; NF = NON-FUSED)
	SURFACE MOUNTED FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT		MOTOR LOCATION
	WALL MOUNTED FLUORESCENT LIGHTING FIXTURE		COMBINATION MOTOR STARTER / MOTOR CIRCUIT PROTECTOR LOCATION
	WALL MOUNTED FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT		VARIABLE FREQUENCY DRIVE / VARIABLE SPEED CONTROLLER
	RECESSED WALL WASH LIGHTING FIXTURE		MISCELLANEOUS CONTROL PANEL
	RECESSED WALL WASH LIGHTING FIXTURE ON EMERGENCY CIRCUIT	R	RELAY OR CONTACTOR FOR LIGHTING CONTROL
	CEILING MOUNTED LIGHTING OUTLET (SEE SCHEDULE)	F	FIRE ALARM STROBE LIGHT - 80"AFF U.O.N.
	CEILING MOUNTED LIGHTING OUTLET ON EMERGENCY CIRCUIT	FS	RECESSED CLG-MTD FIRE ALARM VOICE COMM. SPEAKER
	WALL MOUNTED LIGHTING OUTLET (SEE SCHEDULE)	C ∗	CONCEALITE SPEAKER/STROBE
	WALL MOUNTED LIGHTING OUTLET ON EMERGENCY CIRCUIT	FS	RECESSED WALL-MTD FIRE ALARM VOICE COMM. SPEAKER / STROBE
	WALL MOUNTED STEP LIGHT	FS	SURFACE CLG-MTD FIRE ALARM VOICE COMM. SPEAKER
	SURFACE/PENDANT MOUNTED LIGHTING OUTLET	FS	SURFACE WALL-MTD FIRE ALARM VOICE COMM. SPEAKER
	LIGHTING TRACK WITH JUNCTION BOX	FS	SURFACE WALL-MTD FIRE ALARM VOICE COMM. SPEAKER / STROBE
	EXIT LIGHT CEILING MOUNTED, (ARROWS AS INDICATED)	F	FIRE ALARM MANUAL PULL STATION - 48"AFF U.O.N.
	EXIT LIGHT WALL MTD. (SHADING INDICATES LIGHTED FACE)		SMOKE DETECTOR (PHOTOELECTRIC U.O.N.)
	EXIT LIGHT END MTD. (SHADING INDICATES LIGHTED FACE(S))		135F HEAT DETECTOR UNLESS OTHERWISE NOTED
	DUPLEX CONVENIENCE RECEPTACLE - 16"AFF U.O.N.		DUCT MOUNTED SMOKE DETECTOR (S=SUPPLY; R=RETURN)
	DOUBLE DUPLEX CONVENIENCE RECEPTACLE - 16"AFF U.O.N.	CO	CARBON MONOXIDE DETECTOR - 60"AFF U.O.N.
	SINGLE CONVENIENCE RECEPTACLE - 16"AFF U.O.N.		SMOKE DETECTOR REMOTE INDICATOR LIGHT AND TEST SWITCH
	GROUND FAULT INTERRUPTING RECEPTACLE - 16"AFF U.O.N.	FSR	FAN SHUTDOWN RELAY
	SPECIAL OUTLET CONFIGURATION - SEE NEMA #	FCR	FAN CONTROL RELAY - ADDRESSABLE RELAY MODULE
	FLOOR BOX WITH DUPLEX RECEPTACLE (1) = TYPE-SEE 16100	FAI	FIRE ALARM INTERFACE - ADDRESSABLE RELAY MODULE
	FLOOR BOX WITH DOUBLE DUPLEX RECEPTACLE (1) = TYPE-SEE 16100	FSI	FIRE / SECURITY SYSTEM INTERFACE
	FLOOR BOX WITH COMBINATION TELE/DATA OUTLET	FS	FLOW SWITCH
XF	POWER TRANSFORMER	TS	TAMPER SWITCH
J	WALL MOUNTED JUNCTION BOX	PS	PRESSURE SWITCH
J	CEILING MOUNTED JUNCTION BOX		MAGNETIC DOOR HOLDER
	TELEPHONE OUTLET - 16"AFF U.O.N.		BELL
	COMMUNICATIONS OUTLET - 16"AFF U.O.N.		BUZZER
	COMBINATION TELE/DATA OUTLET - 16"AFF U.O.N.	TC	TIME CLOCK
S	SINGLE POLE SWITCH - 48"AFF U.O.N.	PC	PHOTO CELL
S_3	3 - WAY SWITCH - 48"AFF U.O.N.		EQUIPMENT / OUTLET CONTROL GROUP WIRING
S_4	4 - WAY SWITCH - 48"AFF U.O.N.		EMERGENCY EQUIPMENT / OUTLET CONTROL GROUP WIRING
S_a	SINGLE POLE SWITCH, LETTER INDICATES CONTROL - 48"AFF U.O.N.		UNSWITCHED BRANCH CIRCUIT WIRING
S_D	DIMMER (SWITCH) OR CONTROL - 48"AFF U.O.N.		UNSWITCHED EMERGENCY BRANCH CIRCUIT WIRING
S_{D3}	3-WAY DIMMER (SWITCH) OR CONTROL - 48"AFF U.O.N.	LP/#	HOMERUN TO PANEL (LP = PANEL NAME; # = CIRCUIT #)
S_K	KEY SWITCH - 48"AFF U.O.N.	LP/#RN	HOMERUN TO PANEL VIA RELAY OR CONTACTOR (RN = RELAY NUMBER)
S_P	SWITCH WITH PILOT LIGHT - 48"AFF U.O.N.		BRANCH CIRCUIT ARROW
$S_{R/L}$	MOMENTARY CONTACT RAISE / LOWER SWITCH - 48"AFF U.O.N.		MISCELLANEOUS SYSTEM ARROW (AS DEFINED)
	BREAK GLASS EMERGENCY SWITCH - 48"AFF U.O.N.		TELECOMM. OR MISCELLANEOUS SIGNAL CONDUIT
S_M	MOTOR DISCONNECT SWITCH - SNAP TYPE (SEE SPECS.)	WP	WEATHERPROOF
HC	PUSH BUTTON (HC=HANDICAP)	B.O.	BY OTHERS
S_O	OCCUPANCY SENSOR SWITCH - WALL MOUNTED - 48"AFF U.O.N.	PB	PULL BOX
OC	360° CEILING-MOUNTED OCCUPANCY SENSOR SWITCH	JB	JUNCTION BOX
CKT	CIRCUIT	CB	CIRCUIT BREAKER
PNL	PANEL	E	EMERGENCY
AFF	ABOVE FINISHED FLOOR	C	CONDUIT
U.O.N.	UNLESS OTHERWISE NOTED	CH	DEVICE MOUNTED ABOVE/AT COUNTER HEIGHT
		EWH	ELECTRIC WATER HEATER
		H	DEVICE HORIZONTALLY MOUNTED
		HD	HAND DRYER
		VESDA	VERY EARLY SMOKE DETECTION APPERATUS

GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR GENERAL REQUIREMENTS OF ALL ELECTRICAL EQUIPMENT, RACEWAYS, AND GROUNDING SYSTEMS.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATION DETAILS FOR EXACT LOCATIONS, MOUNTING, AND ORIENTATION OF ALL LIGHTING FIXTURES, EQUIPMENT, DEVICES, AND OUTLETS.
3. REFER TO ARCHTECTURAL DRAWINGS AND ELEVATION DETAILS FOR EXACT LOCATION AND MOUNTING OF ALL RECEPTACLES, SWITCHES, TELEPHONE AND DATA OUTLETS. CONFIRM WITH ARCHITECT EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES PRIOR TO INSTALLATION OF ANY WORK.
4. PROVIDE A SUITABLE JUNCTION BOX AT EACH RECESSED FIXTURE, WHETHER SPECIFICALLY INDICATED OR NOT.
5. ALL CONDUITS SHALL BE RUN CONCEALED IN WALLS AND ABOVE HUNG CEILINGS. STUB-OUT OF WALLS AND FLOORS AS REQUIRED FOR CONNECTIONS TO EQUIPMENT AND/OR DEVICES.
6. ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE A SEPARATE, INSULATED GREEN GROUND CONDUCTOR, SIZED AS INDICATED AND PER NEC REQUIREMENTS.
7. COORDINATE WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ARCHITECTURAL, IRRIGATION, AND LANDSCAPE DRAWINGS FOR EXACT LOCATIONS, MOUNTING HEIGHTS, AND MOUNTING DETAILS FOR ALL EQUIPMENT INSTALLED ON THIS PROJECT. WORK UNDER THIS DIVISION (26) SHALL INCLUDE ALL ELECTRICAL WORK DETAILED, SPECIFIED, OR OTHERWISE REQUIRED FOR THE SUPPORT OF OTHER TRADES, UNLESS OTHERWISE SPECIFICALLY INDICATED.
8. COORDINATE WITH MECHANICAL CONTRACTOR AND THE REQUIREMENTS OF DIVISION 23 FOR LOCATIONS OF ALL TEMPERATURE CONTROL PANELS, DUCT-MOUNTED SMOKE DETECTORS, MOTOR STARTERS, AND OTHER EQUIPMENT. POWER FOR THE SAME SHALL BE PROVIDED AND INSTALLED BY DIVISION 26.
9. A MAINTENANCE LABEL SHALL BE AFFIXED TO ALL EQUIPMENT REQUIRING PREVENTIVE MAINTENANCE AND 3 COPIES OF ALL MAINTENANCE INSTRUCTIONS SHALL BE PROVIDED FOR THE OWNER'S USE.
10. COORDINATE CONSTRUCTION AND DESIGN OF TRIM AND SUPPORTS FOR ALL LIGHTING UNITS FOR CONFORMITY WITH THE CEILINGS IN WHICH THE UNITS ARE TO BE INSTALLED. ANY SPECIAL WORK OR COMPONENTS THAT MAY BE REQUIRED TO OVERCOME UNUSUAL DIFFICULTIES IN FITTING DESIGNS TO PARTICULAR LOCATIONS, OR TO CLEAR UNFORSEEN OBSTACLES, ETC., SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.
11. ALL LIGHTING FIXTURES LOCATED AT THE EXTERIOR OF THE BUILDNG SHALL BE LISTED AND LABELED FOR WET LOCATIONS, AND SHALL BE FULLY GASKETED AND TAMPER-RESISTANT. PROVIDE WITH TAMPER-RESISTANT HARDWARE AND 3 SETS OF ASSOCIATED TOOLS TO OWNER.
12. COORDINATE LOCATIONS OF DEVICES AND OUTLETS IN ALL STORAGE AREAS WITH ARCHITECT AND FURNITURE/SHELVING BEING PROVIDED IN THESE AREAS.
13. DIVISION 23 TEMPERATURE CONTROL / MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER AND CONTROL WIRING TO VAV BOXES AND TERMINAL CONTROL UNITS AS NOTED ON THE MECHANICAL DRAWINGS AND IN SECTION 23900. POWER SHALL BE FROM NORMAL SOURCES AS SCHEDULED ON THE ELECTRICAL DRAWINGS U.O.N.
14. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING TO, BETWEEN, AND FROM ALL DISCONNECT SWITCHES AND MOTOR STARTERS, WHETHER IN THE SAME ENCLOSURE OR MOUNTED AS SEPARATE UNITS. ALL VARIABLE FREQUENCY DRIVES (VFD'S), COMBINATION STARTERS, AND MANUAL MOTOR STARTERS SHALL BE FURNISHED BY DIVISION 23 AND SHALL BE INSTALLED BY DIVISION 26. REFER TO SECTION 230513.
15. ALL SAFETY DISCONNECT SWITCHES SHALL BE SUPPLIED AND INSTALLED BY DIVISION 26. REFER TO SECTION 260500. REFER TO MECHANICAL AND ELECTRICAL PLANS FOR UNIT AND DEVICE LOCATIONS. SAFETY DISCONNECTS ON THE LOAD SIDE OF VFD'S SHALL BE EQUIPPED WITH AUXULLARY CONTACTS AND WIRING BACK TO "RUN-ALLOW" TERMINALS ON THE VFD TO PREVENT THE VFD FROM STARTING WITH THE DISCONNECT SWITCH IN THE OPEN POSITION.
16. WIRING BETWEEN MOTOR CONTROLLERS AND 2-SPEED MOTORS AND WYE-DELTA TYPE MOTORS SHALL INCLUDE 6 WIRES. WIRE SIZES SHALL MATCH FEEDER TO CONTROLLER UNLESS OTHERWISE NOTED.
17. ELECTRICAL CONTRACTOR SHALL PROVIDE 120 VOLT POWER WIRING TO ALL TEMPERATURE CONTROL PANELS, IRRIGATION CONTROL PANELS, AND OTHER CONTROLLERS SUPPLIED BY OTHER DIVISIONS.
18. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS NOT INDICATED. CONSULT WITH ARCHITECT FOR RESOLTION OF ANY DIMENSIONS NOT INDICATED.
19. LIGHT SWITCHES, RECEPTACLES, TELEPHONES, AND DATA OUTLETS, AS WELL AS FIRE ALARM PULL STATIONS, HORN/STROBES, AND OTHER DEVICES, SHALL BE MOUNTED AT HEIGHTS TO COMPLY WITH THE LATEST EDITION OF THE AMERICANS WITH DISABILITIES ACT (ADA), THE APPLICABLE STATE AND LOCAL BUILDING CODES, AND PER ALL AUTHORITIES HAVING JURISDICTION. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL MOUNTING LOCATION INFORMATION.

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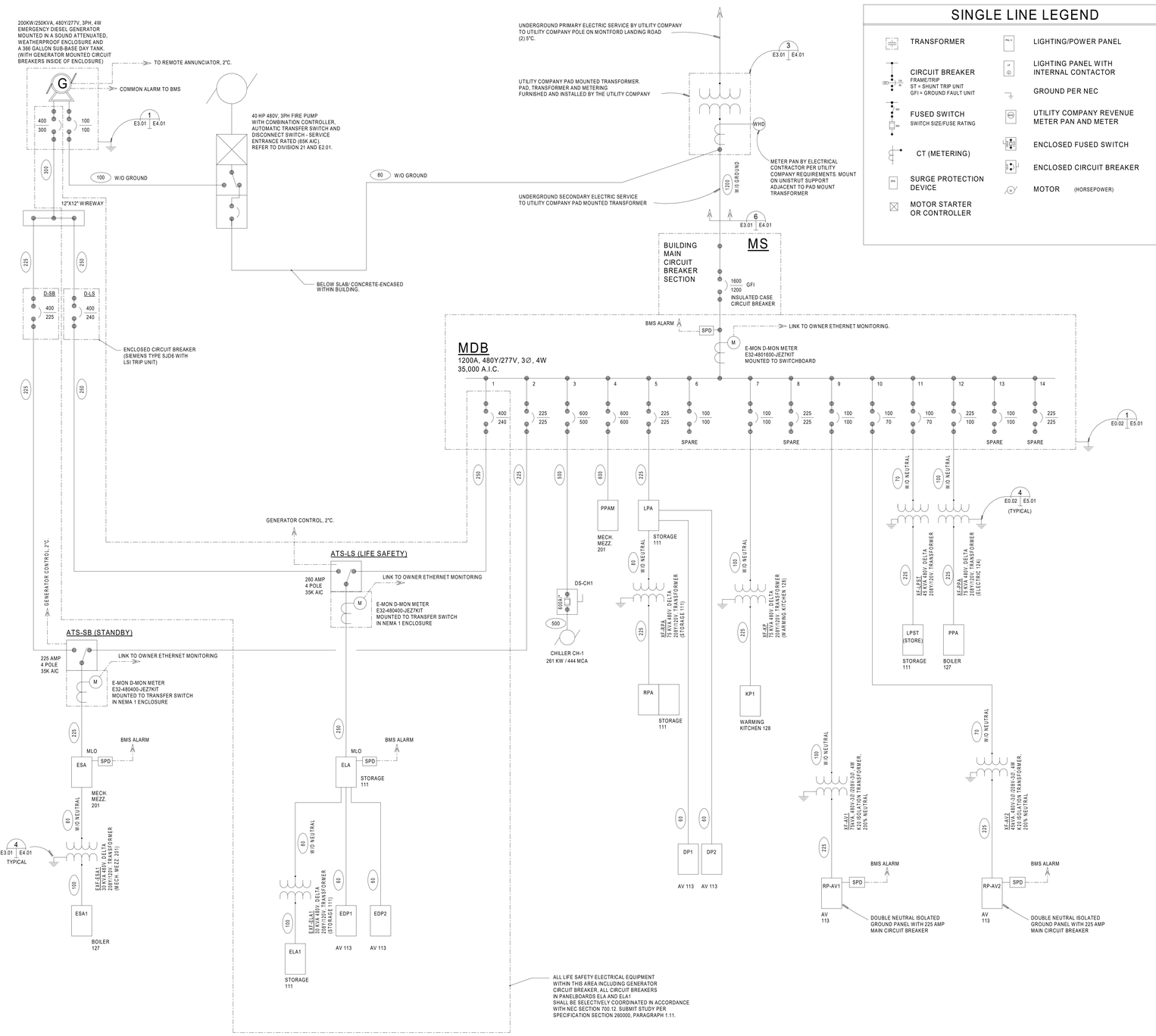
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ELECTRICAL SYMBOLS AND NOTES

E0.01

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SINGLE LINE LEGEND

- TRANSFORMER
- CIRCUIT BREAKER — FRAME/TRIP; ST = SHUNT TRIP UNIT; GFI = GROUND FAULT UNIT
- FUSED SWITCH — SWITCH SIZE/FUSE RATING
- CT (METERING)
- SURGE PROTECTION DEVICE
- MOTOR STARTER OR CONTROLLER
- LIGHTING/POWER PANEL
- LIGHTING PANEL WITH INTERNAL CONTACTOR
- GROUND PER NEC
- UTILITY COMPANY REVENUE METER PAN AND METER
- ENCLOSED FUSED SWITCH
- ENCLOSED CIRCUIT BREAKER
- MOTOR (HORSEPOWER)

CONDUCTOR & CONDUIT SCHEDULE

FEEDER SYMBOL	CONDUCTORS (3PH,4W) WITH GROUND	CONDUIT SIZE
RS	REFER TO PANEL SCHEDULE	
20	4#12 + 1#12 G	(1) 3/4"
30	4#10 + 1#10 G	(1) 3/4"
40	4#8 + 1#10 G	(1) 3/4"
50	4#6 + 1#10 G	(1) 1"
60	4#6 + 1#10 G	(1) 1"
70	4#4 + 1#8 G	(1) 1 1/4"
80	4#4 + 1#8 G	(1) 1 1/4"
100	4#2 + 1#8 G	(1) 1 1/4"
125	4#1 + 1#6 G	(1) 1 1/2"
150	4#1/0 + 1#6 G	(1) 2"
175	4#2/0 + 1#6 G	(1) 2"
200	4#3/0 + 1#6 G	(1) 2"
225	4#4/0 + 1#4 G	(1) 2 1/2"
250	4#250KCM + 1#4 G	(1) 2 1/2"
300	4#350KCM + 1#4 G	(1) 3"
350	4#500KCM + 1#2 G	(1) 3 1/2"
400	4#500KCM + 1#2 G	(1) 3 1/2"
420	4#600KCM + 1#2 G	(1) 4"
450	8#4/0 + 2#2 G	(2) 2 1/2"
500	8#250KCM + 2#2 G	(2) 2 1/2"
600	8#350KCM + 2#1 G	(2) 3"
700	8#500KCM + 2#1/0 G	(2) 3 1/2"
800	8#500KCM + 2#1/0 G	(2) 3 1/2"
840	8#600KCM + 2#2/0 G	(2) 4"
900	12#350KCM + 3#2/0 G	(3) 3"
1000	12#500KCM + 3#2/0 G	(3) 3 1/2"
1200	12#600KCM + 3#3/0 G	(3) 4"
1600	16#600KCM + 4#4/0 G	(4) 4"
2000	20#600KCM + 5#250KCM G	(5) 4"
2500	24#600KCM + 6#350KCM G	(6) 4"
3000	32#600KCM + 8#400KCM G	(8) 4"

NOTES:

1. PROVIDE 4-WIRE CIRCUIT, UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL CONNECTION.
2. ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS, WITH 90 DEGREE INSULATION RATING.
3. FOR AN OVERCURRENT PROTECTION DEVICE OF INTERMEDIATE RATING OF THOSE LISTED, PROVIDE WIRING INDICATED FOR THE NEXT HIGHER RATED DEVICE.
4. VD=FEEDER UPSIZED DUE TO VOLTAGE DROP 3W=3WIRE FEEDER (NO NEUTRAL) REQUIRED 5W=5WIRE FEEDER (2X NEUTRAL) REQUIRED
5. FEEDERS ON TRANSFORMER SECONDARY SIDE SHALL CONTAIN SYSTEM BONDING JUMPER SIZED PER NEC 250-30(A)(1). & NEC TABLE 250-66.

1 ELECTRICAL SINGLE LINE DIAGRAM

E3.01 | E3.01 SCALE: NONE

BASIS OF DESIGN OF EQUIPMENT AND CIRCUIT BREAKERS IS BY SIEMENS INDUSTRY, INC.

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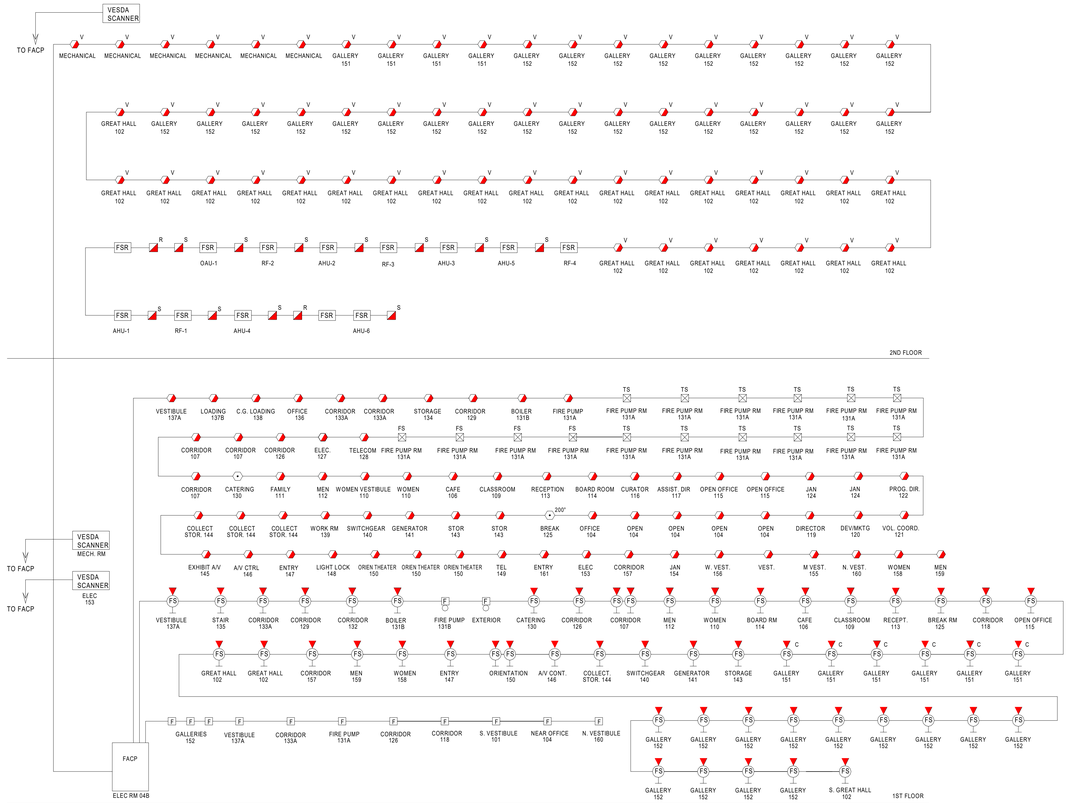
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ELECTRICAL SINGLE LINE DIAGRAM

E0.02

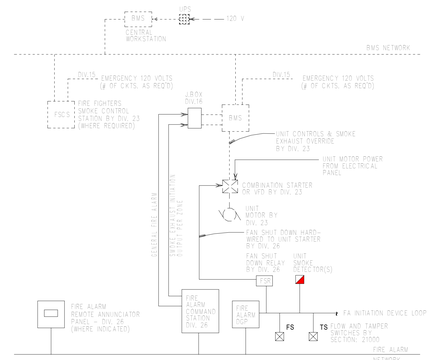
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3 FIRE ALARM RISER DIAGRAM
E3.02 | E3.02 SCALE: NONE

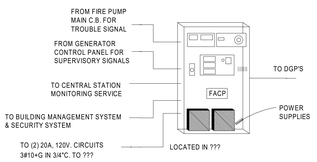
FIRE ALARM SYSTEM SEQUENCE OF OPERATION

		OUTPUTS																							
		DISPLAY & SOUND FIRST AT FA CONTROL PANEL	SEND SMOKE/HEAT ALARM SIGNAL TO CENTRAL STATION	ACTIVATE ANNUNCIATION DEVICES (SPEAKERS/STROBES) THROUGHOUT	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM	SENDS SHUTDOWN SIGNAL TO AIR HANDLING SYSTEMS	RELEASES DOOR HOLD-OPEN DEVICES	SEND PULL STATION ALARM SIGNAL TO CENTRAL STATION	SEND WATERFLOW ALARM TO CENTRAL STATION	SEND VALVE SUPERVISORY SIGNAL TO CENTRAL STATION	SEND FIRE PUMP SUPERVISORY SIGNAL TO CENTRAL STATION	SEND SYSTEM TROUBLE TO CENTRAL STATION	SEND SUPERVISORY SIGNAL TO FA CONTROL PANEL	SEND SIGNAL TO RECALL ELEVATORS TO DESIGNATED LEVEL	SEND SIGNAL TO SHUT OFF POWER TO ELEVATOR EQUIPMENT	SEND SIGNAL TO SHUT DOWN THEATER SOUND & PROJECTION SYSTEMS	SEND SIGNAL TO RAISE THEATER HOUSE LIGHTING SYSTEMS TO FULL "ON"
INPUTS	AREA SMOKE DETECTOR	X	X	X	X	X	X										X	X	X
	DUCT SMOKE DETECTOR	X	X	X	X	X	X										X	X	X
	AREA HEAT DETECTOR	X	X	X	X	X	X										X	X	X
	MANUAL PULL STATION	X		X	X	X	X	X									X	X	X
	SPRINKLER WATER FLOW SWITCH	X		X	X	X	X		X						X		X	X	X
	SPRINKLER VALVE TAMPER SWITCH									X									
	FIRE PUMP SUPERVISORY											X							
	SYSTEM TROUBLE CONDITION													X					
	LOSS OF PRIMARY AC POWER													X					
	EMERGENCY GENERATOR ALARM OR TROUBLE														X				
	CARBON MONOXIDE DETECTOR														X				



ASW NOTE - THIS DETAIL MUST BE EDITED FOR EACH PROJECT

2 MECH. EQUIP. / FIRE ALARM INTERFACE
E3.02 | E3.02 SCALE: NONE



1 FIRE COMMAND STATION
E3.02 | E3.02 SCALE: NONE

FIRE ALARM DEVICE WIRING KEY



TYPICAL SMOKE DETECTOR WIRING



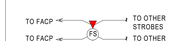
TYPICAL FLOW SWITCH WIRING



TYPICAL TAMPER SWITCH WIRING



TYPICAL DUCT SMOKE DETECTOR WIRING



TYPICAL SPEAKER/STROBE WIRING



TYPICAL STROBE WIRING



TYPICAL MANUAL STATION WIRING



TYPICAL FAN SHUT DOWN RELAY WIRING



TYPICAL ALARM INTERFACE RELAY WIRING

REFER TO SECTION 283100 OF SPECIFICATIONS FOR WIRING SIZES AND QUANTITIES SERVING EACH TYPE OF DEVICE ABOVE

FIRE ALARM NOTES:

1. FIRE SPEAKERS AND STROBES SHALL BE WIRED VIA VOICE EVACUATION LOOPS AS SCHEDULED ON THIS DRAWING.
2. SPEAKER TAP SETTINGS SHALL BE PER SCHEDULE ON THIS DRAWING. ALLOW SUFFICIENT AMPLIFIER WATTAGE SO THAT SEVERAL SPEAKER TAPS CAN BE INCREASED IN THE FIELD IF REQUIRED TO MEET SOUND OUTPUT REQUIREMENTS.
3. VOICE COMMUNICATIONS SPEAKERS SHALL BE WIRED ALTERNATELY, WITH EVERY OTHER SPEAKER ON THE SAME CIRCUIT, SO THAT THE FAILURE OF ONE CIRCUIT WILL NOT LEAVE AN ENTIRE AREA WITHOUT COMMUNICATIONS.
4. REFER TO PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL DEVICES. IF A DISCREPANCY BETWEEN THE PLANS AND THE RISER IS FOUND, PROVIDE THE GREATER/MORE STRINGENT QUANTITY OF DEVICES.
5. ALL FIRE ALARM DEVICES SHALL BE WIRED VIA ADDRESSABLE LOOPS FROM THE FIRE ALARM DGP'S PER MANUFACTURER'S RECOMMENDATIONS. LEAVE SPACE FOR THE ADDITION OF 10 FUTURE DEVICES PER LOOP MINIMUM.
6. PROVIDE A SEPARATE RACEWAY SYSTEM FOR FIRE ALARM WIRING. POWER SHALL NOT BE INSTALLED IN RACEWAYS WITH LOW VOLTAGE WIRING. RACEWAY SHALL BE ELECTRICAL METALLIC TUBING (EMT); MINIMUM 3/4-INCH SIZE, MAXIMUM 40% FILL AND AS INDICATED ON DRAWINGS. REFER TO SECTION 260500 FOR RACEWAY AND INSTALLATION REQUIREMENTS.
7. SMOKE DETECTORS NOTED WITH "FSS" = TOP OF SHAFT/STAIR. SUCH DETECTORS SHALL BE WIRED AND PROGRAMMED TO OPEN SHAFT HATCH UPON DETECTION OF SMOKE. DETECTORS SHALL RECEIVE THEIR CONTROL POWER FROM THE FACP AND SHALL REPORT ALL ALARMS TO THE FACP.
8. ALL DOORS ON MAGNETIC HOLD-OPENS SHALL BE RELEASED AUTOMATICALLY UPON ANY FIRE ALARM CONDITION.
9. ALL AC UNITS, AHU'S, AND RF'S RATED GREATER THAN 2000 CFM SHALL AUTOMATICALLY SHUTDOWN UPON ANY FIRE ALARM CONDITION.
10. ALL EF'S WITH FAN SHUTDOWN RELAYS ( ) SHALL BE AUTOMATICALLY SHUTDOWN UPON ANY FIRE ALARM CONDITIONS.
11. ALL SMOKE DETECTORS LOCATED WITHIN SPRINKLER ZONE #??? AS INDICATED ON DRAWING FP-??? SHALL SIGNAL SPRINKLER PRE-ACTION SYSTEM CONTROL PANEL LOCATED IN ROOM 131B VIA CONTACT FROM FIRE ALARM DGP UPON DETECTION OF SMOKE. COORDINATE WITH DIVISION 21 SPRINKLER CONTRACTOR.
12. ALL FIRE ALARM SYSTEM POWER SUPPLIES SHALL BE POWERED VIA CIRCUIT BREAKERS IN PANEL ??? AS INDICATED IN PANEL SCHEDULES. PROVIDE ALL SUCH CIRCUIT BREAKERS WITH HANDLE LOCKING DEVICES.
13. GENERATOR COMMON ALARM AND TROUBLE SIGNALS SHALL REPORT AS SUPERVISORIES TO FACP FROM GENERATOR REMOTE ANNUNCIATOR PANEL.
14. THE FIRE ALARM PANEL SHALL SEND A SIGNAL TO THE BMS SYSTEM INDICATING THAT A FIRE ALARM CONDITION HAS OCCURRED.
15. SMOKE DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR FLOW NOR CLOSER THAN THREE (3) FEET FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. INCREASE SEPARATION AS REQUIRED BY NFPA 72.

SPEAKER TAP SETTINGS

TAP (W)	AREA SERVED
1/8	-
1/4	-
1/2	TOILET ROOMS, STAIRWAYS
1	OPEN OFFICE AREAS, GALLERIES
2	MECHANICAL ROOMS
4	LOADING DOCK & CATERING KITCHEN
8	NONE

STROBE UNIT CANDELA RATINGS

CANDELA	MOUNTING	AREA SERVED
15	WALL	CORRIDORS, & AREAS THAT ARE 20'X20' AND SMALLER
30	WALL	LARGE TOILET ROOMS AND AREAS 28'X28' MAXIMUM
75	WALL	MECHANICAL ROOMS
110	WALL	GALLERIES & ORIENTATION THEATER

VOICE EVACUATION ZONE SCHEDULE

ZONE	AREA SERVED
A	1ST FLOOR
B	2ND FLOOR
C	ALL FIRE STAIRS
D	SPARE
E	SPARE
F	SPARE

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ELECTRICAL FIRE ALARM RISER DIAGRAM

E0.03

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1 ELECTRICAL 1ST FLOOR POWER PLAN
1/8" = 1'-0"

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ELECTRICAL 1ST FLOOR POWER PLAN

E2.01

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PLAN NORTH



ELECTRICAL 2ND FLOOR, HIGH BAY AND LOW ROOF POWER PLAN
1/8" = 1'-0"

PLAN NORTH

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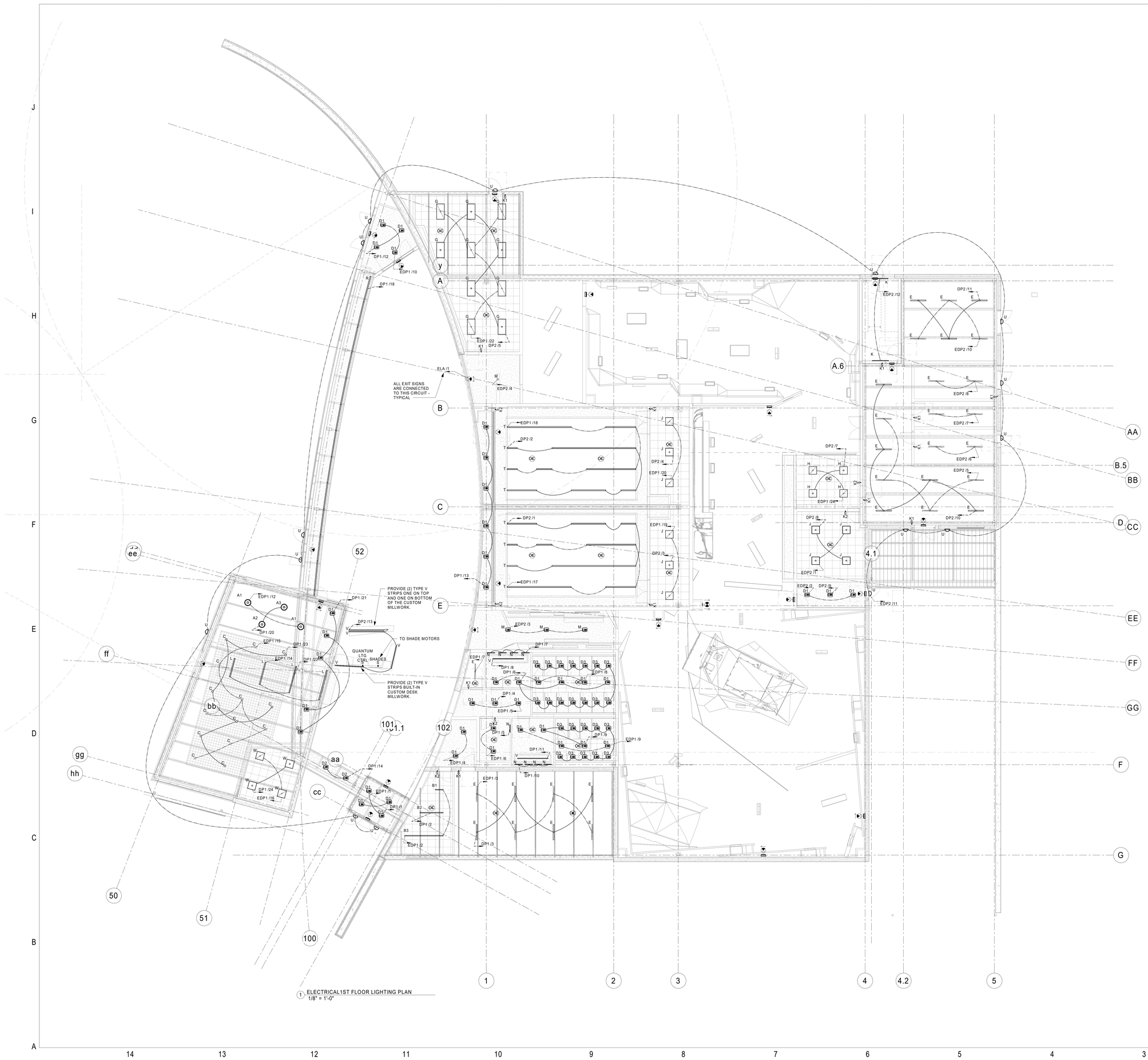
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ELECTRICAL 2ND FLOOR, HIGH BAY AND LOW ROOF POWER PLAN

E2.02

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PROJECT NUMBER: 2246
DRAWN BY: AL
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1 ELECTRICAL1ST FLOOR LIGHTING PLAN
1/8" = 1'-0"

NOTES:
1. REFER TO GENERAL NOTES ON DRAWING E0.01.
2. REFER TO SPECIFICATIONS SECTION 265000 FOR LIGHTING FIXTURE SCHEDULES AND DESCRIPTIONS.
3. TYPICAL FOR ALL EXIT SIGNS: PROVIDE CEILING OR WALL MOUNTED, RECESSED OR SURFACE, SELF-POWERED, EDGE-LIT EXIT SIGN WITH 6" HIGH RED LETTERS ON CLEAR OR MIRRORED BACKGROUND. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR CEILING AND/OR WALL TYPES AND MOUNTING CONDITIONS. COOPER ATLITE MARATHON SERIES MTA-C/W-1/2-6-RC/RM-SA-IHS HOUSING WITH ARROWS AS REQUIRED.

PLAN NORTH

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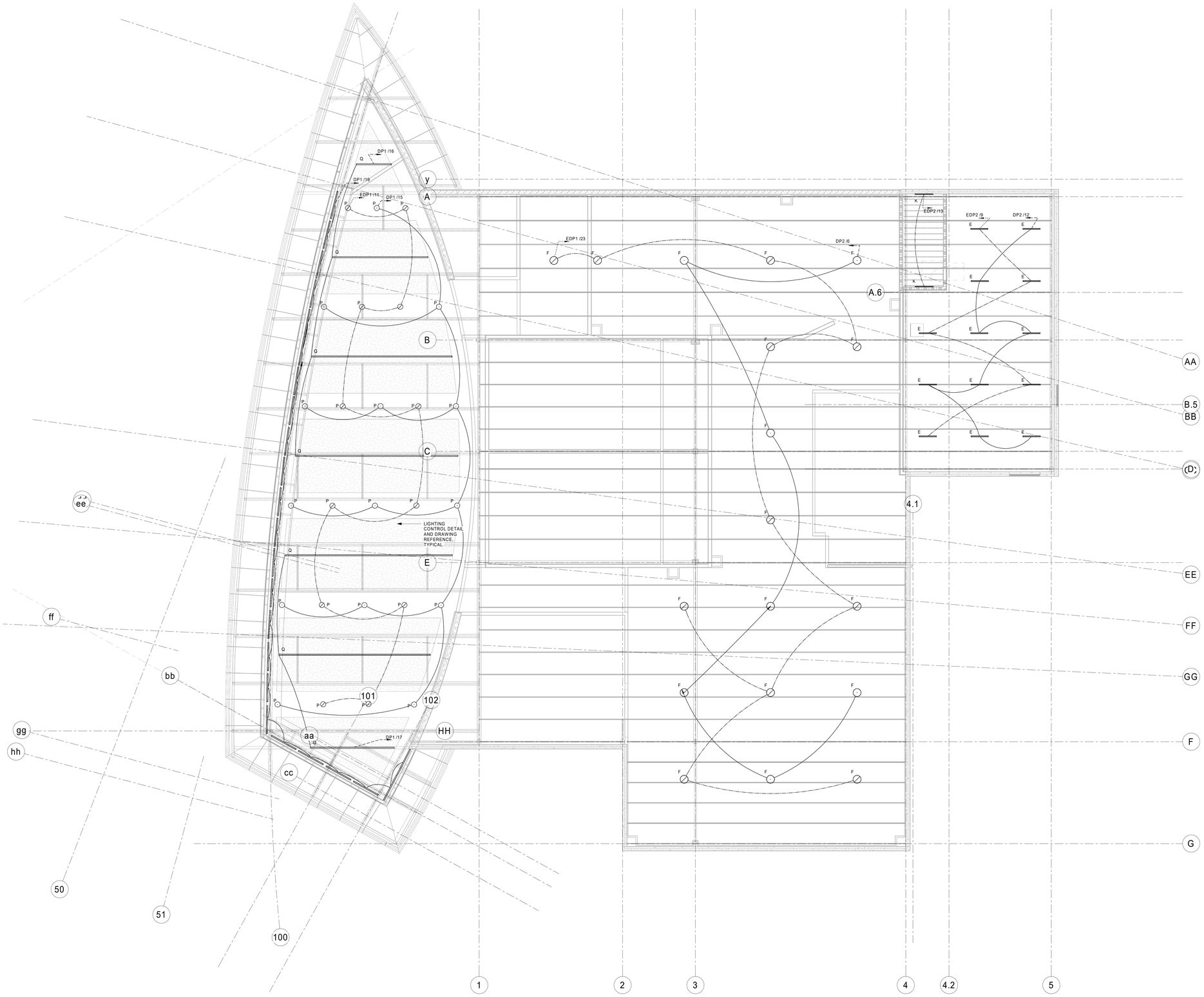
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ELECTRICAL 1ST FLOOR LIGHTING PLAN

E3.01

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ELECTRICAL 2ND FLOOR HIGH BAY AND LOW ROOF LIGHTING PLAN
1/8" = 1'-0"

PLAN NORTH

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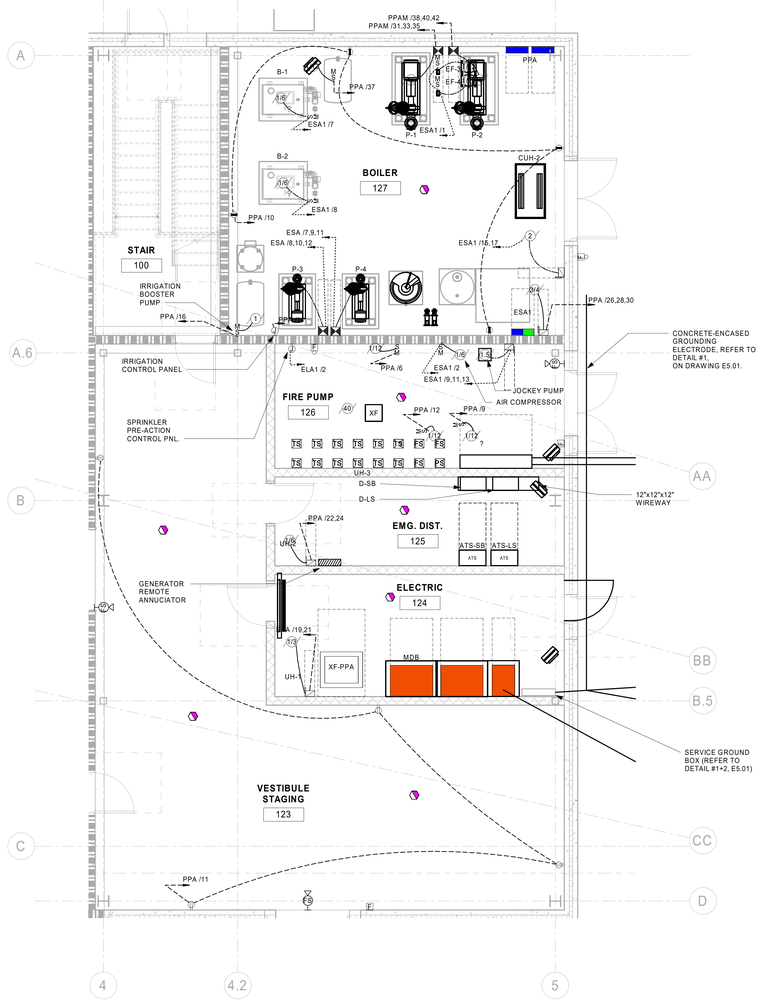
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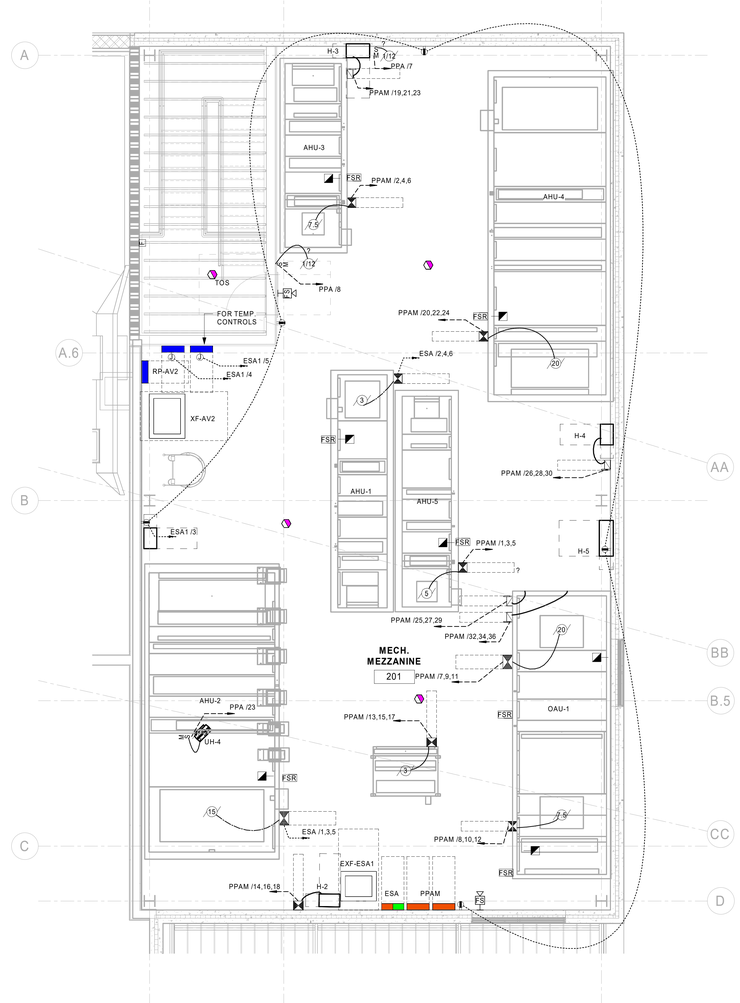
ELECTRICAL 2ND FLOOR, HIGH BAY AND LOW ROOF LIGHTING PLAN

E3.02

ISSUE DATE: 08-01-2023
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1 ELECTRICAL 1ST FLOOR POWER PART PLAN - BACK OF HOUSE
1/4" = 1'-0"



2 ELECTRICAL 2ND FLOOR POWER PART PLAN - MECH. MEZZANINE
1/4" = 1'-0"

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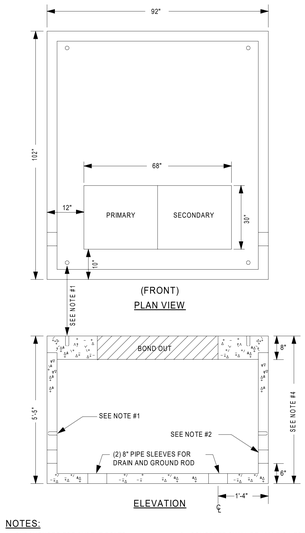
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ELECTRICAL PART PLANS

E4.01

PLAN NORTH

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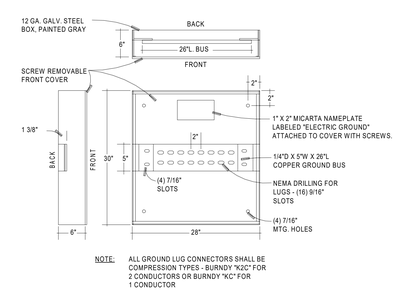


NOTES:

1. 3/4" ANCHORS FOR 3/4" EYE BOLTS. (A) 4 AT 90° ANGLES FOR CABLE PULLING (B) 4 FOR LIFTING COVER
2. PROVIDE CABLE OPENINGS AT BASE OF WALL AS NEEDED.
3. "FRONT" DENOTES THE SIDE ON WHICH THE ACCESS DOORS SHALL BE LOCATED. FRONT SHALL BE READILY ACCESSIBLE.
4. OVERALL HEIGHT MAY BE DECREASED PER UTILITY CO. ENGINEERING APPROVAL.
5. CONCRETE SHALL BE 4000 P.S.I FOR 28 DAY TEST WITH MAX. 3/4" BROKEN STONE.
6. REINFORCEMENT SHALL BE 6"X6", #10 WELDED WIRE MESH WITH #4 VERTICAL WIRE.
7. WALL THICKNESS SHALL BE 4"; BASE THICKNESS SHALL BE 5".
8. COORDINATE ALL DIMENSIONS AND REQUIREMENTS WITH UTILITY COMPANY STANDARDS.

3 PRECAST EXTERIOR TRANSFORMER PAD & VAULT DETAIL

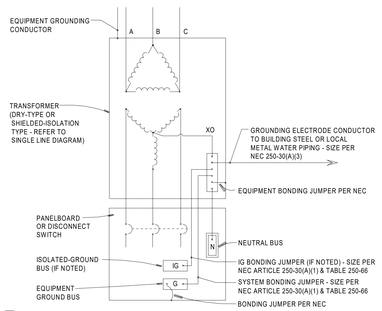
E4.01 | E4.01 SCALE: NONE



NOTE: ALL GROUND LUG CONNECTORS SHALL BE COMPRESSION TYPES - BURNDY "K2C" FOR 2 CONDUCTORS OR BURNDY "KC" FOR 1 CONDUCTOR

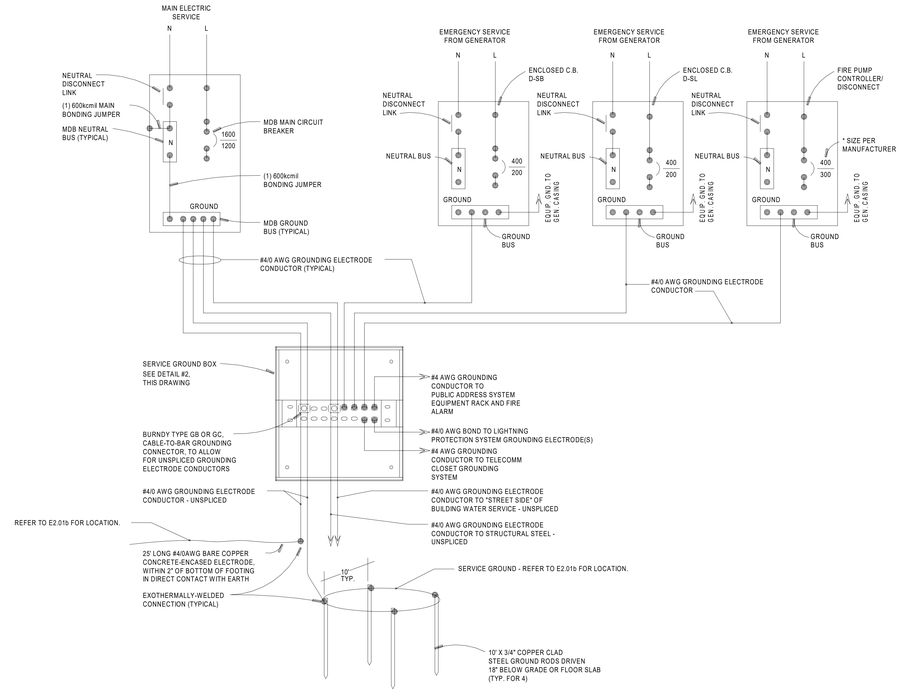
2 SERVICE GROUND BOX DETAIL

E4.01 | E4.01 SCALE: NONE



4 TRANSFORMER GROUNDING DETAIL

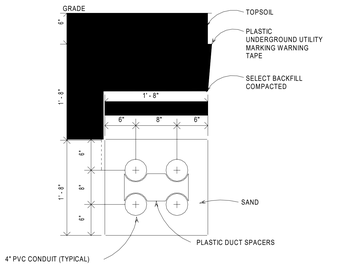
E4.01 | E4.01 SCALE: NONE



1 SERVICE GROUNDING & INTERCONNECTION DETAIL

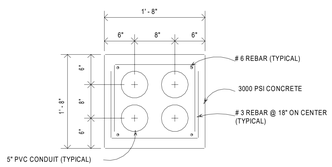
E4.01 | E4.01 SCALE: NONE

NOTE: PROVIDE GROUNDING BUSHINGS WITH BONDING JUMPERS AT ALL ENCLOSURES WHERE GROUNDING ELECTRODE CONDUCTOR IS ENCLOSED WITHIN METALLIC CONDUIT. PROVIDE CONDUIT SLEEVE(S) WHERE GROUNDING ELECTRODE CONDUCTOR(S) PENETRATES FLOOR SLAB AND/OR FOOTING. PROVIDE BONDING JUMPERS AS DESCRIBED ABOVE.



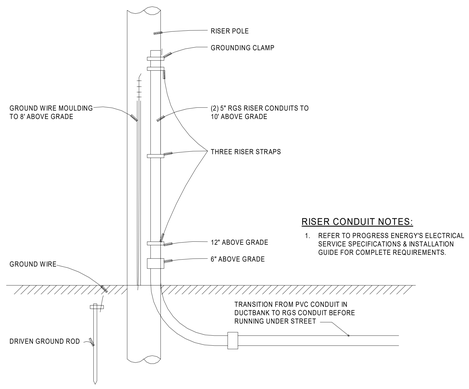
5 TRENCH DETAIL

E4.01 | E4.01 SCALE: NONE



6 DUCTBANK DETAIL

E3.01 | E4.01 SCALE: NONE

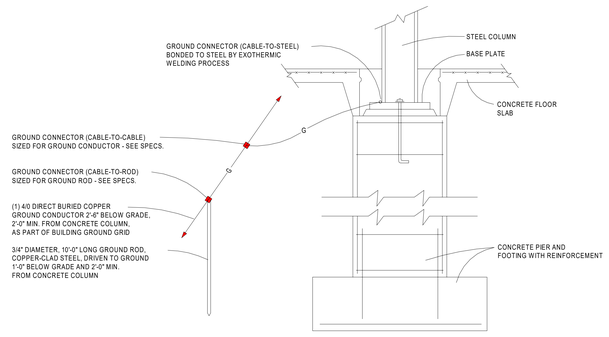


RISER CONDUIT NOTES:

1. REFER TO PROGRESS ENERGY'S ELECTRICAL SERVICE SPECIFICATIONS & INSTALLATION GUIDE FOR COMPLETE REQUIREMENTS.

7 RISER CONDUIT DETAIL

E4.01 | E4.01 SCALE: NONE



8 STRUCTURAL COLUMN GROUNDING DETAIL

E4.01 | E4.01 SCALE: NONE

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#	Description	Date

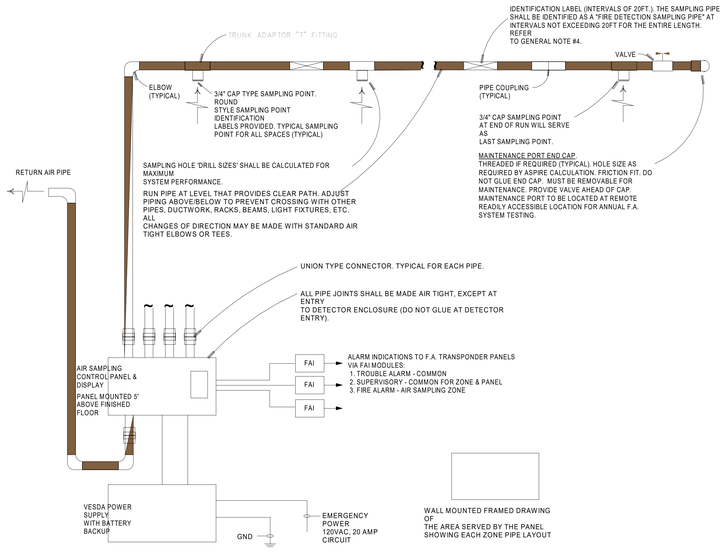
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ELECTRICAL DETAILS

E5.01

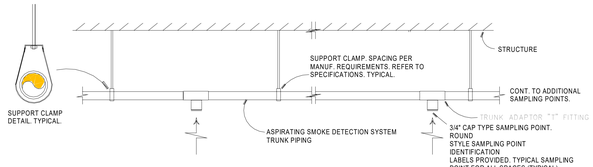
ISSUE DATE: 08-01-2023
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4 TYPICAL AIR SAMPLING SYSTEM LAYOUT

E4.02 | E4.02 SCALE: NTS

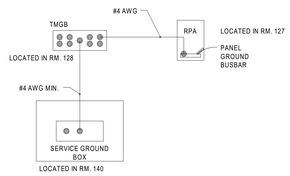
NOTE: PROVIDE WALL MOUNTED FRAMED DRAWING OF THE AREA SERVED BY THE PANEL SHOWING EACH ZONE PIPE LAYOUT



5 TYPICAL ASPIRATING SMOKE DETECTION SYSTEM SAMPLING POINT/PIPING DETAIL.

E4.02 | E4.02 SCALE: NONE

NOTE: REFER TO FIRE ALARM SPECIFICATIONS AND ABOVE DETAIL FOR ADDITIONAL INFORMATION.
PROVIDE DETAILED COORDINATION DRAWINGS OF THE EXACT ROUTING, MOUNTING DETAILS & SYSTEM LAYOUT PRIOR TO ANY INSTALLATION FOR APPROVAL.



6 TELECOMM. GROUNDING RISER

E4.02 | E4.02 SCALE: NONE

TMGB = TELECOMM. MAIN GROUNDING BUSBAR (4"H. X 1/4"D. X 24"L. PER TIA/EIA-607)

ALL GROUNDING CONDUCTORS SHALL BE PROVIDED WITH GREEN INSULATION AND SHALL BE RUN IN METALLIC CONDUIT WITH BONDING JUMPERS.

AIR SAMPLING SYSTEM GENERAL NOTES:

1. ALL SAMPLING PIPE SHALL BE 3/4" DIAMETER PIPE AND FITTINGS. SEE FLOOR PLANS FOR LENGTHS IN EACH BRANCH.
2. IF REQUIRED, PIPE JOINTS SHALL BE PERMANENTLY SEALED BY APPROVED SEAL TYPE EPOXY, EXCEPT AT ENTRY TO THE DETECTOR ENCLOSURE.
3. ALL ELBOWS SHALL HAVE LONG RADIUS BENDS (SWEEP ELBOWS) TO ENHANCE AIR SAMPLING SYSTEM PERFORMANCE.
4. THE PIPE SHALL BE IDENTIFIED AS A 'FIRE DETECTION SAMPLING PIPE' AT INTERVALS NOT EXCEEDING 20 FEET FOR THE ENTIRE LENGTH. PLACE IDENTIFICATION LABELS INDISCREETLY WHERE NOT VISIBLE FROM BELOW.
5. TO MINIMIZE FLEXING FOR THE PIPING IT SHALL BE SUPPORTED AT NOT LESS THAN 4 FEET ON CENTER.
6. PIPE LENGTH SHOW IS APPROXIMATE. ADJUST LENGTH TO SUIT FIELD CONDITIONS. NOTE: ADJUST PIPE RUNS AT PROPER LEVEL TO AVOID CROSSING OF PIPES. RUN VESDA PIPE TIGHT TO SLAB AS POSSIBLE.
7. FIELD VERIFY EXACT LENGTH WITH EQUIPMENT LINEUP AND PROJECT SUPERVISOR.
8. SAMPLING NOTE 'DRILL SIZES' SHALL BE CALCULATED FOR MAXIMUM SYSTEM PERFORMANCE. PROVIDE WINDOWS ASPIRE CALCULATIONS FOR THESE VALUES. REFER TO SPECIFICATIONS.

VESDA AIR SAMPLING SYSTEM SEQUENCE OF OPERATIONS:

GENERAL OPERATION: VESDA - VERY EARLY SMOKE DETECTION APPARATUS

1. THE VESDA UNIT CONSTANTLY SAMPLES AIR VIA A HIGH EFFICIENCY ASPIRATOR. WHEN THE UNIT REACHES AN ADAPTIVE THRESHOLD IT SHALL REPORT THE STATUS AT THE DETECTOR.
2. INFORMATION IS DISPLAYED VISUALLY ON A BAR GRAPH THAT INDICATES THE OVERALL SMOKE LEVEL, ALARM THRESHOLDS (ALERT, PRE-ALARM OR FIRE), SERVICE OR FAULT EVENTS THAT EXIST, VIA ADDRESSABLE MONITOR POINTS, VESDA ALARM THRESHOLDS AND FAULT EVENTS ARE TRANSMITTED TO THE FIRE ALARM CONTROL PANEL AND WILL RESPECTIVELY ACTIVATE PROGRAMMED FUNCTIONS.

ACTIVATION OF A VESDA 'FIRE ALARM TROUBLE (FAULT) SIGNAL' SHALL:

1. ILLUMINATE THE COMMON TROUBLE LED AND SOUND THE LOCAL ALARM AT THE FIRE COMMAND STATION.
2. DISPLAY LOCATION OF ACTIVATED DEVICE AT THE FIRE COMMAND STATION AND AT THE REMOTE ANNUNCIATOR(S).
3. REFER TO FIRE ALARM SEQUENCE OF OPERATION MATRIX ON E3.02 FOR ADDITIONAL REQUIREMENTS.

ACTIVATION OF A VESDA 'FIRST THRESHOLD LEVEL 'ALERT' SHALL:

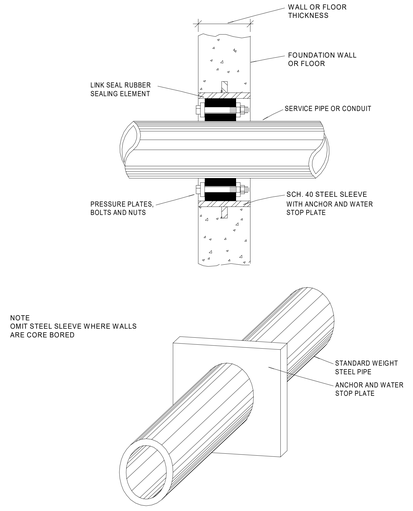
1. ILLUMINATE THE COMMON SUPERVISORY LED AND SOUND THE LOCAL ALARM AT THE FIRE COMMAND STATION.
2. DISPLAY LOCATION OF ACTIVATED DEVICE AT THE FIRE COMMAND STATION AND AT THE REMOTE ANNUNCIATOR(S).
3. REFER TO FIRE ALARM SEQUENCE OF OPERATION MATRIX ON E3.02 FOR ADDITIONAL REQUIREMENTS.

ACTIVATION OF VESDA SECOND THRESHOLD LEVEL 'PRE-ALARM' SHALL:

1. ILLUMINATE THE COMMON SUPERVISORY LED AND SOUND THE LOCAL ALARM AT THE FIRE COMMAND STATION.
2. DISPLAY LOCATION OF ACTIVATED DEVICE AT THE FIRE COMMAND STATION AT THE REMOTE ANNUNCIATOR(S).
3. REFER TO FIRE ALARM SEQUENCE OF OPERATION MATRIX ON E3.02 FOR ADDITIONAL REQUIREMENTS.

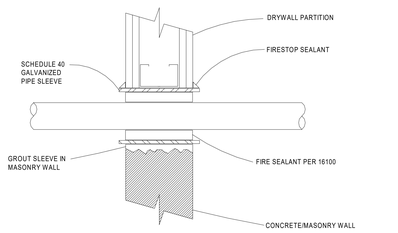
ACTIVATION OF A VESDA THIRD THRESHOLD LEVEL 'FIRE ALARM' SIGNAL SHALL:

1. ILLUMINATE THE COMMON ALARM LED AND SOUND THE LOCAL ALARM AT THE FIRE COMMAND STATION.
2. DISPLAY LOCATION OF THE ACTIVATED DEVICE AT THE FIRE COMMAND STATION AND AT THE REMOTE ANNUNCIATOR(S).
3. REFER TO FIRE ALARM SEQUENCE OF OPERATION MATRIX ON E3.02 FOR ADDITIONAL REQUIREMENTS.



1 WATER TIGHT WALL/FLOOR SLEEVE DETAIL

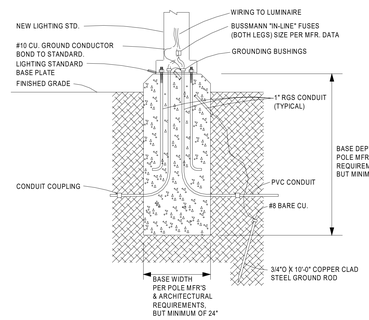
E4.02 | E4.02 SCALE: NONE



NOTE: FIRE STOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL BEING PENETRATED - SEE 16100. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS AND LOCATIONS.

2 FIRE-RATED WALL PENETRATION

E4.02 | E4.02 SCALE: NONE



3 LIGHTING STANDARD (FOUNDATION) DETAIL

E4.02 | E4.02 SCALE: NONE

NOTE: FOR ELECTRICAL REQUIREMENTS ONLY REFER TO L SERIES DRAWINGS FOR LIGHTING STANDARD (FOUNDATION) REQUIREMENTS.

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NOTES ON WIRING

QS CONTROL LINK

THE QS CONTROL LINK HAS A FREE WIRING TOPOLOGY (DAISY CHAIN, T-TAP, ETC). THE SYSTEM WIRING ILLUSTRATED BY THIS DRAWING HAS BEEN LAID OUT TO ENSURE APPROPRIATE POWER TO EACH DEVICE. IF FOR ANY REASON THE SYSTEM IS TO BE WIRED DIFFERENTLY THAN WHAT IS SHOWN, PLEASE CONFIRM ALL DEVICE POWER REQUIREMENTS ARE MET (PLEASE REFER TO "QS LINK POWER REQUIREMENTS" FOR INDIVIDUAL DEVICE POWER REQUIREMENTS).
FOR QS CONTROL WIRE LENGTHS TOTALING LESS THAN 500 FT (153 M), USE LUTRON CABLE GRX-CBL-346S (4 CONDUCTOR NON-PLENUM), OR GRX-PCBL-346S (4 CONDUCTOR PLENUM). OTHERWISE USE 2 #18 AWG (1.0 SQ MM) + 2 #22 AWG (0.5 SQ MM) TWISTED AND SHIELDED OR EQUIVALENT (BELDEN #9461). FOR QS CONTROL WIRE LENGTHS TOTALING UP TO 2,000 FT, USE GRX-CBL-46L (5 CONDUCTOR NON-PLENUM) OR GRX-PCBL-46L (5 CONDUCTOR PLENUM). TOTAL QS CONTROL WIRE LENGTH MUST NOT EXCEED 2,000 FT (600 M).

PANEL LINK RULES

PANELS ARE DAISY CHAINED ON ONE OF THE CONFIGURABLE LINKS PER LUTRON'S DRAWING, HOWEVER THEY DO NOT HAVE TO BE IN THE ORDER SHOWN. DO NOT HOME-RUN OR T-TAP THIS WIRING LINK. ALL CIRCUITS NEED TO BE LANDED IN THESE PANELS PER LUTRON'S PANEL SCHEDULES. THE MAXIMUM WIRE LENGTH OF A PANEL LINK IS 2,000FT (600M). IF A PANEL IS MOVED TO ANOTHER LINK, OR THE LOADS ARE NOT WIRED AS SHOWN IN LUTRON'S PANEL SCHEDULES, LUTRON MUST BE NOTIFIED AS THIS INFORMATION IS IMPORTANT FOR PROGRAMMING THE SYSTEM. LT-1 LINK TERMINATORS ARE NEEDED ON EACH END OF THE LINK.
USE LUTRON CABLE GRX-CBL-46L (5 CONDUCTOR NON-PLENUM) OR GRX-PCBL-46L (5 CONDUCTOR PLENUM RATED). OTHERWISE, USE 2 #12 AWG (4 SQ MM)+ 2 #22 AWG (0.5 SQ MM) TWISTED AND SHIELDED AND BETWEEN THE PANELS ADD 1 #18 AWG (1.0 SQ MM) FOR EMERGENCY SENSING CABLE BY OTHERS.

QS LINK POWER REQUIREMENTS	
DEVICE	PDUS
QS DEVICES THAT SUPPLY PDU	
DIN RAIL POWER SUPPLY	+75
MYROOM DIN RAIL POWER SUPPLY	+30
QS PLUG-IN POWER SUPPLY, QS J-BOX POWER SUPPLY	+8
ENERGI SAVR NODE WITH ECOSYSTEM, ENERGI SAVR NODE WITH DALI, ENERGI SAVR NODE WITH T-SERIES TUNABLE-WHITE	+30
ENERGI SAVR NODE FOR 0–10 V, ENERGI SAVR NODE WITH SOFTSWITCH, ENERGI SAVR NODE FOR 0–10 V (DIN RAIL), ENERGI SAVR NODE WITH SOFTSWITCH (DIN RAIL)	+14
1 A MYROOM DIN RAIL POWER MODULE SWITCHING, 1 A MYROOM DIN RAIL POWER MODULE PHASE ADAPTIVE	+4
ENERGI SAVR NODE WITH DALI (DIN RAIL), ENERGI SAVR NODE WITH ECOSYSTEM (DIN RAIL)	+3
ENERGI SAVR NODE PHASE ADAPTIVE (DIN RAIL), QS MOTOR GROUP CONTROLLER (DIN RAIL), HOMEWORKS QS DIN RAIL POWER MODULES	0
GRAFIK EYE QS (ALL MODELS EXCEPT GRAFIK EYE QS DALI WITH KNX), QS TIMECLOCK	+3
QP2 QUANTUM LIGHTING HUB	LINK A : 0 LINKS B,C,D : +33 EACH
QP3 QUANTUM LIGHTING HUB	LINKS A,B : +33 EACH
TWO PROCESSOR LIGHTING HUB (QP5)	LINKS A,B,C,D : +33 EACH
SINGLE PROCESSOR LIGHTING HUB (QP5), 2-LINK PROCESSOR (QP-2L)	LINKS A,B : +33 EACH
1-LINK PROCESSOR LIGHTING HUB (QP6), 1-LINK PROCESSOR LIGHTING HUB (QP5), 1-LINK PROCESSOR (QP-1L)	LINKS A : +33 EACH
QS DEVICES THAT CONSUME PDU	
QS WALLSTATION (SEETOUCH, ARCHITRAVE, SIGNATURE SERIES, Q5 PICO, KEYSWITCH, SINGLE COLUMN PALLADIOM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE	-1
QS NETWORK INTERFACE, QS DMX INTERFACE, ENERGI SAVR NODE PROGRAMMING INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIOM)	-2
QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS CONTACT CLOSURE INTERFACE, PALLADIOM ROOM THERMOSTAT	-3
GUESTROOM CONTROL UNIT	-8
SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM	
LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER	-0.5
ECOSYSTEM WALLSTATION	-1
LOS C SERIES OCCUPANCY SENSOR, HIGH BAY OCCUPANCY SENSOR	-2

LUTRON SERVICES		
QTY	SERVICE TITLE (MODEL NUMBER)	SERVICE DESCRIPTION
		THE QUANTITY OF SERVICES BELOW ARE TO BE INCLUDED AS PART OF THIS PROJECT'S SCOPE OF WORK AND SPECIFIED INTO THE WRITTEN SPEC DOCUMENTS
	PRE-STARTUP ELECTIVE SERVICES	
	REMOTE PRE-WIRE SESSION (LSC-PREWIRE-RMTE)	A REMOTE SESSION WHERE THE LUTRON FIELD SERVICE ENGINEER REVIEWS THE LUTRON SUBMITTAL PACKAGE (PARTICULARLY THE ONE LINE AND DEVICE SPECIFICATIONS) WITH THE ELECTRICAL CONTRACTOR, ANSWERS QUESTIONS, AND REVIEWS THE CONSTRUCTION TIMELINE ALONG WITH BEST PRACTICES FOR INSTALLATION. THIS SESSION
	ONSITE PRE-WIRE VISIT (LSC-PREWIRE-ONST)	AN ONSITE VISIT WHERE THE LUTRON FIELD SERVICE ENGINEER REVIEWS THE LUTRON SUBMITTAL PACKAGE (PARTICULARLY THE ONE LINE AND DEVICE SPECIFICATIONS) WHEN ENTERED USING A VIRTUAL SCREEN SHARING PLATFORM AND SHOULD NOT EXCEED 4 HOURS. THE ELECTRICAL CONTRACTOR, ANSWERS QUESTIONS, AND REVIEWS THE CONSTRUCTION TIMELINE ALONG WITH BEST PRACTICES FOR INSTALLATION.
	POST-WIRE TERMINATION VISIT (LSC-POSTWIRE-VST)	AN ON-SITE WALK THROUGH BY A LUTRON FIELD SERVICE ENGINEER WITH THE ELECTRICAL CONTRACTOR TO CONFIRM THE PROCESSORS ARE ONLINE, THE DEVICES ARE INSTALLED AND WIRED PROPERLY, AND THE SYSTEM IS COMMUNICATING EFFICIENTLY PRIOR TO LUTRON RETURNING TO SITE FOR THE PHYSICAL STARTUP OF THE SYSTEM. THIS VISIT IS INTENDED AS A HIGH LEVEL VERIFICATION/CONFIRMATION THAT THE LUTRON EQUIPMENT IS WIRED AND POWERED; IT DOES NOT INCLUDE WIRING TROUBLESHOOTING, OR VALIDATION THAT THE ENTIRE SYSTEM WAS INSTALLED PER THE APPROVED SUBMITTAL. LUTRON WILL WORK TO CONFIRM OVERALL WIRING READINESS AND BASIC SYSTEM FUNCTIONALITY PRIOR TO START-UP AND WILL NOTE ANY DEFICIENCIES FOR THE ELECTRICAL CONTRACTOR. THE LUTRON SYSTEM MUST BE
	SENSOR LAYOUT & TUNING (LSC-SENS-LT)	LUTRON WILL TAKE RESPONSIBILITY FOR LUTRON-PROVIDED SENSOR PLACEMENT AND PERFORMANCE BY CREATING SENSOR LAYOUTS AND COORDINATING SENSOR PLACEMENT BEFORE AND AFTER INSTALLATION. ONCE THE BUILDING IS OCCUPIED, LUTRON WILL RETURN UP TO TWO TIMES TO PERFORM SENSOR FINE-TUNING.
	SYSTEM & NETWORK INTEGRATION CONSULTATION (LSC-INT-VISIT)	A CONSULTATIVE VISIT WITH THIRD PARTY INTEGRATORS TO CONFIRM THE SPECIFIED SEQUENCE OF OPERATION AND DISCUSS INTEGRATION PROCEDURES NEEDED IN ORDER TO INTEGRATE WITH THE LUTRON EQUIPMENT. THIS MAY INCLUDE ANY OF THE FOLLOWING THIRD PARTY SYSTEMS: BMS, BAS, IT, NON-LUTRON SHADES, BACNET, AV, OR ENERGY DASHBOARDS.
	STARTUP ELECTIVE SERVICES (THESE SERVICES ARE ADDITIONAL TO YOUR SPECIFIED STARTUP BASED ON YOUR REQUIREMENTS)	
	ONSITE SCENE & LEVEL TUNING (LSC-AF-VISIT)	AN ONSITE VISIT WITH THE SPECIFIER OR CUSTOMER REPRESENTATIVE TO REVIEW THE DESIGN INTENT, FINE-TUNE THE SCENE LEVEL PROGRAMMING, AND MAKE ADJUSTMENTS TO TIMECLOCKS.
	DYNAMIC WHITE PROGRAMMING PACKAGE (LSC-DWP-PKG)	A SPECIFIER DRIVEN PACKAGE WHICH INCLUDES ONE (1) POST WIRE TERMINATION VISIT (FOR WIRE VERIFICATION), TWO (2) VISITS TO PERFORM FINE TUNING OF FIXTURES AND PROGRAMMING ADJUSTMENTS PER THE DIRECTION OF A LIGHTING DESIGNER AND/OR A PRE-DETERMINED SEQUENCE OF OPERATIONS PROVIDED BY THE SPECIFIER. THE FIRST FINE-TUNING VISIT IS DURING NORMAL BUSINESS HOURS AND THE SECOND VISIT IS AN AFTER HOUR SITE VISIT. ALSO INCLUDED IN THIS PACKAGE IS A TWO-HOUR REMOTE SESSION FOR WHICH ADJUSTMENTS REMOTELY ACCESS INSTRUCTIONS FOR THIS REMOTE TWO HOUR SESSION AND THE JOBSITE MUST BE ABLE TO CONNECT TO THE LUTRON NETWORK THROUGH PORT 22
	ONSITE PERFORMANCE-VERIFICATION WALKTHROUGH (LSC-WALK)	AN ONSITE WALK THROUGH WITH A LUTRON SYSTEMS PROJECT COMMISSIONING AGENT TO DEMONSTRATE THAT THE SYSTEM FUNCTIONALITY MEETS THE CLIENT'S INTENT. THIS MAY INCLUDE ANY OF THE FOLLOWING ONSITE ACTIVITIES – CONSULTATION/TRAINING DEMOS, FUNCTIONAL TESTING ASSISTANCE, OR INVENTORY OF LUTRON EQUIPMENT.
	SYSTEM PERFORMANCE-VERIFICATION DOCUMENTATION (LSC-SPV-DOC)	COMPLETION OF DOCUMENTATION WHICH PROVIDES PERFORMANCE VERIFICATION CERTIFYING THE LUTRON EQUIPMENT HAS BEEN THOROUGHLY TESTED. IT SUPPORTS THE DOCUMENTATION REQUIREMENTS OF MANY BUILDING STANDARDS.
	SYSTEM PERFORMANCE-VERIFICATION DOCUMENTATION TITLE 24 SUPPLY (LSC-SPV-DOC-T24)	DOCUMENTS THE TITLE 24 ACCEPTANCE TESTS REQUIRED FOR THE LIGHTING CONTROL SYSTEM AND THE TEST'S RESULTS. DOCUMENTATION IS TO BE FILLED OUT AS A SEPARATE VISIT AFTER ONSITE STARTUP BY LUTRON'S CALIFORNIA CERTIFIED CALCTP TECHNICIAN. UPON COMPLETION, A LUTRON SERVICES REPRESENTATIVE WILL THE JOB-SPECIFIC TITLE 24 DOCUMENTATION THAT SHOWS THE RESULTS OF THE LIGHTING CONTROL SYSTEM TESTING.
	AFTER HOURS STARTUP (LSC-AH-SU)	STARTUP PROVIDED BETWEEN THE HOURS OF 5:00PM – 7:00AM, MONDAY - FRIDAY. THIS SCOPE OF WORK DOES NOT INCLUDE HOLIDAY OR WEEKEND WORK. ADDITIONAL FEES MAY APPLY FOR WORK TO BE COMPLETED ON WEEKENDS (FRIDAY 5:00PM – MONDAY 7:00AM).
	POST-STARTUP ELECTIVE SERVICES	
	CUSTOMER SYSTEM ORIENTATION VISIT (LSC-CSO-VST)	AN ON-SITE VISIT WHERE THE LUTRON FIELD SERVICE ENGINEER COMES OUT 30-90 DAYS POST-OCCUPANCY TO GO OVER THE LUTRON SYSTEM COMPONENTS WITH THE SYSTEM USER AND PERFORMS A THOROUGH TRAINING. THE FIELD SERVICE ENGINEER WILL ENSURE THE SYSTEM USER KNOWS HOW TO NAVIGATE WITHIN THEIR SYSTEM AND MAKE APPROPRIATE ADJUSTMENTS. THEY WILL ALSO PROVIDE A LEAVE BEHIND SYSTEM OPTIMIZATION RECOMMENDATION REPORT.
	TRAINING VISIT (LSC-TRAINING-SP)	CUSTOMER-SITE SOLUTION TRAINING – THIS TRAINING VISIT IS PROVIDED BY A LUTRON SERVICES REPRESENTATIVE TO TEACH SYSTEM USERS HOW TO OPERATE AND MAINTAIN THE LIGHTING CONTROL SYSTEM. QUANTITY DICTATES THE NUMBER OF VISITS PURCHASED.
	SYSTEM OPTIMIZATION (LSC-SYSOPT-SP)	AN ONSITE CONSULTATIVE VISIT TO IDENTIFY AND IMPLEMENT LIGHTING CONTROL ADJUSTMENTS TO SAVE ADDITIONAL ENERGY AND CREATE A MORE PRODUCTIVE WORK ENVIRONMENT.
	PREVENTATIVE MAINTENANCE VISIT (LSC-SCHD-MAINT)	VISIT TO PERFORM PREVENTATIVE MAINTENANCE, MINOR REPROGRAMMING, AND CONDUCT SYSTEM TRAINING. THE LUTRON SERVICE REPRESENTATIVE WILL REVIEW SERVICE OPTIONS WITH THE END-USER PRIOR TO BEGINNING ANY WORK. THE END-USER WILL RECEIVE DOCUMENTATION THAT DESCRIBES THE WORK PERFORMED AND ANY RECOMMENDATIONS FOR FUTURE SERVICE. QUANTITY DICTATES THE NUMBER OF DAYS PURCHASED.
	ADDITIONAL DAY OF SERVICE (LSC-DAY-ADDL-CS)	ONSITE DAY OF SERVICE BY A LUTRON SERVICE REPRESENTATIVE.
	REMOTE SUPPLEMENTAL TRAINING (LSC-TRAIN-RMTE)	A SUPPLEMENTAL REMOTE TRAINING FOR SITE PERSONNEL. THIS SERVICE IS AVAILABLE FOR LUTRON QUANTUM AND ATHENA SYSTEMS. THIS TRAINING IS NOT TO EXCEED 4 HOURS. REMOTE NETWORK ACCESS IS REQUIRED FOR THIS VISIT AND THE SYSTEM MUST BE ABLE TO CONNECT TO THE INTERNET.
	REMOTE PROGRAMMING ASSISTANCE (LSC-PRG-AST-RMTE)	ONE 4-HOUR REMOTE PROGRAMMING ASSISTANCE SESSION TO MAKE PROGRAMMING ADJUSTMENTS PER THE DIRECTION OF A FACILITY MANAGER OR SPECIFIER. THIS SERVICE IS AVAILABLE FOR LUTRON QUANTUM AND ATHENA SYSTEMS. REMOTE NETWORK ACCESS IS REQUIRED FOR THIS VISIT AND THE SYSTEM MUST BE ABLE TO CONNECT TO THE INTERNET.
	MAINTENANCE & SUPPORT SERVICES	
	SOFTWARE MAINTENANCE AGREEMENT (LSC-SMA-SD)	PROVIDES COMPATIBILITY TESTING RESULTS OF QUANTUM WITH OPERATING SYSTEM PATCHES AND WEB BROWSER UPDATES. INCLUDES AN ELECTIVE FREE SOFTWARE UPGRADE LICENSE.
	COMMERCIAL SYSTEMS 2-YEAR LIMITED WARRANTY (LSC-B2)	A 2-YEAR SYSTEM WARRANTY PROVIDING 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A FIRST-AVAILABLE RESPONSE TIME.
1	ENHANCED SILVER (LSC-E8S)	YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A FIRST-AVAILABLE RESPONSE TIME; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.
	ENHANCED GOLD (LSC-E8G)	YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 72-HOUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.
	ENHANCED PLATINUM (LSC-E8P)	YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 24-HOUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.
	SILVER TECHNOLOGY SUPPORT PLAN (LSC-SILV-IW)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A FIRST-AVAILABLE ONSITE OR REMOTE RESPONSE TIME.
	GOLD TECHNOLOGY SUPPORT PLAN (LSC-GOLD-IW)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON LABOR WITH A 72-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH YEAR.
	PLATINUM TECHNOLOGY SUPPORT PLAN (LSC-PLAT-IW)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A 24-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH YEAR.
	PREVENTIVE MAINTENANCE VISIT(S) (LSC-SCH-MAINT)	SCHEDULED MAINTENANCE VISIT TO PERFORM PREVENTIVE MAINTENANCE, MINOR PROGRAMMING, AND CONDUCT SYSTEM TRAININGS. QUANTITY IS IN ADDITION TO ANY YEARLY VISITS SPECIFIED WITH AN ENHANCED WARRANTY OR TECHNOLOGY SUPPORT PLAN.
	PLEASE GO TO WWW.LUTRON.COM/SERVICES FOR FURTHER INFORMATION.	

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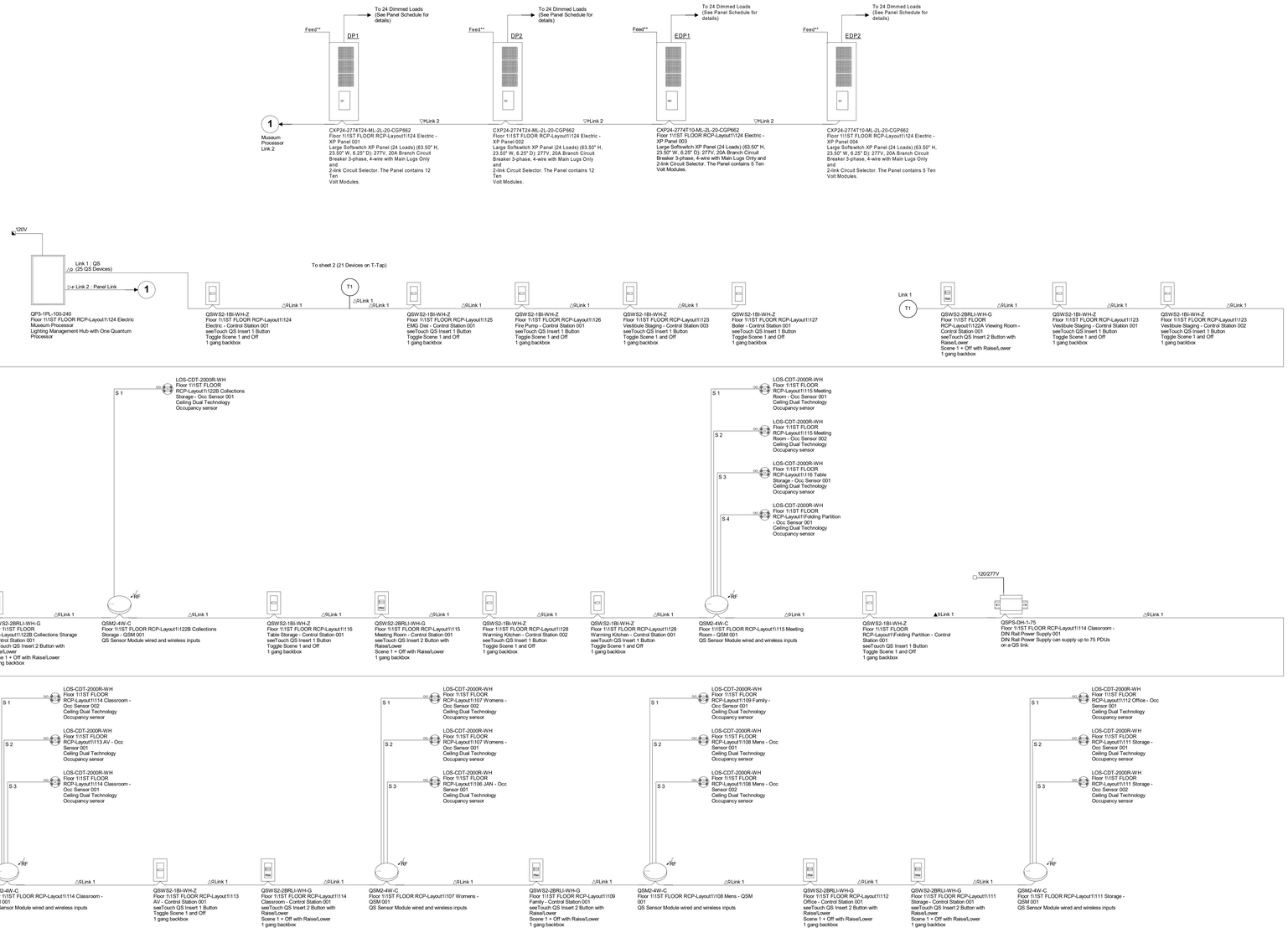
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ELECTRICAL LIGHTING CONTROL DETAILS

E5.03

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 2246
DRAWN BY: LF
CHECKED BY: LF



1 LIGHTING CONTROL DETAILS 2
12" = 1'-0"

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ELECTRICAL LIGHTING CONTROL DETAILS

E5.04

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 2246
DRAWN BY: Author
CHECKED BY: Checker

PLAN NORTH

Switchboard: MDB

Location: ELECTRIC 124 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35000
Supply From: | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 1600 A
Enclosure: | **MCB Rating:** 1200 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	ELA VIA ATS	3	400 A	240 A	13924 VA	
2	ESA VIA ATS	3	225 A	225 A	51591 VA	
3	Chiller CH-1	3	600 A	500 A	261000 VA	
4	PPAM	3	600 A	600 A	236168 VA	
5	LPA	3	225 A	225 A	43738 VA	
6	Spare	3	100 A	100 A	0 VA	Refer to Single Line Drawing E0.02
7	XF-KP	3	100 A	100 A	46789 VA	3#2+#8G-1 1/4"C
8	Spare	3	225 A	225 A	0 VA	Refer to Single Line Drawing E0.02
9	XF-AV1	3	100 A	100 A	55159 VA	
10	XF-AV2	3	100 A	70 A	39750 VA	
11	XF-LPST	3	100 A	70 A	38450 VA	
12	XF-PPA	3	225 A	100 A	13261 VA	
13	Spare	3	100 A	100 A	0 VA	Refer to Single Line Drawing E0.02
14	Spare	3	225 A	225 A	0 VA	Refer to Single Line Drawing E0.02
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	788286 VA	
				Total Amps:	948 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	27159 VA	100.00%	27159 VA		
Other	65425 VA	100.00%	65425 VA	**Total Conn. Load:**	788286 VA
Power	698285 VA	100.00%	698285 VA	**Total Est. Demand:**	788286 VA
				Total Conn. Current:	948 A
				Total Est. Demand Current:	948 A

Notes:

Panel: ESA

Location: MECH. MEZZANINE 201 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 25,000
Supply From: MDB | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** MLO

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A		B		C		#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1					6135	1402									2
3	AHU-2	3#6+G-1"C	60	3			6135	1402			3	15	3#12+G-3/4"C	AHU-1	4
5									6135	1402					6
7					3214	3214									8
9	P-3	3#12+G-3/4"C	20	3			3214	3214			3	20	3#12+G-3/4"C	P-4	10
11									3214	3214					12
13					3306	0									14
15	EXF-ESA1	3#4 + #8G - 1 1/4"C	80	3			3559	0			3	20		Spare	16
17									2878	0					18
19	Spare		20	1	0	0					1	20		Spare	20
21	Spare		20	1			0	0			1	20		Spare	22
23	Spare		20	1					0	0	1	20		Spare	24
25	Spare		20	1	0	0					1	20		Spare	26
27	Spare		20	1			0	0			1	20		Spare	28
29	Spare		20	1					0	0	1	20		Spare	30
31	Spare		20	1	0	0					1	20		Spare	32
33	Spare		20	1			0	0			1	20		Spare	34
35	Spare		20	1					0	0	1	20		Spare	36
37	Spare		0	1	0	0					1	0		Spare	38
39	Spare		0	1			0	0			1	0		Spare	40
41	Spare		0	1					0	0	1	0		Spare	42
	Total VA				17270		17490		16835						

Total Connected Load (VA): 51591 VA
Total Connected Current (Amps): 62 A

Panel: ESA1

Location: Space 299 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: EXF-ESA1 | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** MLO

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A		B		C		#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1	EF-3,4	2#12...	20	1	600	557					1	20	2#12...	Air Compressor	2
3	Mech Rm Recep	2#12...	20	1			900	180			1	20	2#12...	TCP	4
5	TCP	2#12...	20	1					180	180	1	20	2#12...	GENERATOR CTRL.	6
7	B-1	2#12...	20	1	557	557					1	20	2#12...	B-2	8
9							872	180			1	20	2#12...	Block Heater	10
11	Jockey Pump	2#12 +1#12G - 3/4"C	20	3					872	180	1	20	2#12...	Battery Charger	12
13					872	180					1	20	2#12...	TCP	14
15	CUH-2	2#12 +1#12G - 3/4"C	20	2			1510	0			1	20		Spare	16
17									1510	0	1	20		Spare	18
19	Spare		20	1	0	0					1	20		Spare	20
21	Space		--	1			--	--			1	--		Space	22
23	Space		--	1					--	--	1	--		Space	24
25	Space		--	1	--	--					1	--		Space	26
27	Space		--	1			--	--			1	--		Space	28
29	Space		--	1					--	--	1	--		Space	30
31	Space		--	1	--	--					1	--		Space	32
33	Space		--	1			--	--			1	--		Space	34
35	Space		--	1					--	--	1	--		Space	36
37	Space		--	1	--	--					1	--		Space	38
39	Space		--	1			--	--			1	--		Space	40
41	Space		--	1					--	--	1	--		Space	42
	Total VA				3306		3559		2878						

Total Connected Load (VA): 9727 VA
Total Connected Current (Amps): 27 A

Panel: PPAM

Location: MECH. MEZZANINE 201 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 25,000
Supply From: MDB | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 600 A
Enclosure: Type 1 | **MCB Rating:**

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A		B		C		#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1					2220...	3214...									2
3	AHU-5	3#12+G-3/4"C	15	3			2220...	3214...			3	15	3#12+G-3/4"C	AHU-3	4
5									2220...	3214...					6
7					7888...	3214...									8
9	OAU-1	3#8+G-3/4"C	50	3			7888...	3214...			3	20	3#12+G-3/4"C	OAU-R	10
11									7888...	3214...					12
13					1402...	1333...									14
15	BCU-1	3#12+G-3/4"C	15	3			1402...	1333...			3	60	3#6+G-1"C	H-2	16
17									1402...	1333...					18
19					1333...	7888...									20
21	H-3	3#12+G-3/4"C	20	3			1333...	7888...			3	40	3#8+G-3/4"C	AHU-4	22
23									1333...	7888...					24
25					1333...	1333...									26
27	H-OAU-1	3#6+G-1"C	60	3			1333...	1333...			3	15	3#12+G-3/4"C	H-5	28
29									1333...	1333...					30
31					6135...	1333...									32
33	P-1	3#8+G-3/4"C	40	3			6135...	1333...			3	60	3#6+G-1"C	H-OAU-2	34
35									6135...	1333...					36
37					0 VA	6135...									38
39	Spare		20	3			0 VA	6135...			3	40	3#8+G-3/4"C	P-2	40
41									0 VA	6135...					42
43					0 VA	0 VA									44
45	Spare		20	3			0 VA	0 VA			3	60		Spare	46
47									0 VA	0 VA					48
49	Spare		20	1	0 VA	0 VA					1	20		Spare	50
51	Spare		20	1			0 VA	0 VA			1	20		Spare	52
53	Spare		20	1					0 VA	0 VA	1	20		Spare	54
55	Spare		0	1	0 VA	0 VA					1	0		Spare	56
57	Spare		0	1			0 VA	0 VA			1	0		Spare	58
59	Spare		0	1					0 VA	0 VA	1	0		Spare	60
61	Spare		0	1	0 VA	0 VA					1	0		Spare	62
63	Spare		0	1			0 VA	0 VA			1	0		Spare	64
65	Spare		0	1					0 VA	0 VA	1	0		Spare	66
67	Spare		0	1	0 VA	0 VA					1	0		Spare	68
69	Spare		0	1			0 VA	0 VA			1	0		Spare	70
71	Spare		0	1					0 VA	0 VA	1	0		Spare	72
73	Spare		0	1	0 VA	0 VA					1	0		Spare	74
75	Spare		0	1			0 VA	0 VA			1	0		Spare	76
77	Spare		0	1					0 VA	0 VA	1	0		Spare	78
79	Spare		0	1	0 VA	0 VA					1	0		Spare	80
81	Spare		0	1			0 VA	0 VA			1	0		Spare	82
83	Spare		0	1					0 VA	0 VA	1	0		Spare	84
	Total VA				78723		78723		78723						

Total Connected Load (VA): 236168 VA
Total Connected Current (Amps): 284 A

Panel: ELA

Location: Space 281 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 25,000
Supply From: MDB | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 250 A
Enclosure: Type 1 | **MCB Rating:** MLO

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A		B		C		#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1	EXIT SIGNS	2#10 + 1#10G - 3/4"C	20	1	345										2
3							360								4
5	EXF-ELA1	3#4 + #8G - 1 1/4"C	80	3					180						6
7					360	1259									8
9							1046	5967			3	60	3#6 + #10 - 1"C	EDP1	10
11	EDP2	3#6 + #10 - 1"C	60	3					1431	1809					12
13					1286	0									14
15	Spare		20	1			0	0			1	20		Spare	16
17	Spare		20	1					0	0	1	20		Spare	18
19	Spare		20	1	0	0					1	20		Spare	20
21	Spare		20	1			0	0			1	20		Spare	22
23	Spare		20	1					0	--	1	--		Space	24
25	Space		--	1	--	--					1	--		Space	26
27	Space		--	1			--	--			1	--		Space	28
29	Space		--	1					--	--	1	--		Space	30
31	Space		--	1	--	--					1	--		Space	32
33	Space		--	1			--	--			1	--		Space	34
35	Space		--	1					--	--	1	--		Space	36
37	Space		--	1	--	--					1	--		Space	38
39	Space		--	1			--	--			1	--		Space	40
41	Space		--	1					--	--	1	--		Space	42
	Total VA				3215		7369		3409						

Total Connected Load (VA): 13924 VA
Total Connected Current (Amps): 17 A

Panel ELB Feed Thru. Circuit #38,40,42 indicated for load purposes only. Refer to Drawing E3.01.

Panel: ELA1

Location: Space 281 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: EXF-ELA1 | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** MLO

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A		B		C		#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1	VESDA Scanner	2#12...	20	1	180	180					1	20	2#12...	TCP	2
3	Vesda Scanner	2#12...	20	1			180	0			1	20	2#12...	Transformer - 120 -Low...	4
5	Security Gate	2#12...	20	1					180	180	1	20	2#12...	FACP	6
7	Spare		20	1	0	0					1	20		Spare	8
9	Spare		20	1			0	0			1	20		Spare	10
11	Spare		20	1					0	0	1	20		Spare	12
13	Spare		20	1	0	0					1	20		Spare	14
15	Spare		20	1			0	0			1	20		Spare	16
17	Space		--	1					--	--	1	--		Space	18
19	Space		--	1	--	--					1	--		Space	20
21	Space		--	1			--	--			1	--		Space	22
23	Space		--	1					--	--	1	--		Space	24
25	Space		--	1	--	--					1	--		Space	26
27	Space		--	1			--	--			1	--		Space	28
29	Space		--	1					--	--	1	--		Space	30
31	Space		--	1	--	--					1	--		Space	32
33	Space		--	1			--	--			1	--		Space	34
35	Space		--	1					--	--	1	--		Space	36
37	Space		--	1	--	--					1	--		Space	38
39	Space		--	1			--	--			1	--		Space	40
41	Space		--	1					--	--	1	--		Space	42
	Total VA				360		180		360						

Total Connected Load (VA): 900 VA
Total Connected Current (Amps): 2 A

DIMMER PANEL: EDP1

LOCATION: | **MANUFACTURER:**
SUPPLY FROM: ELA | **VOLTS:** 480/277 Wye | **MODEL # :**
A.I.C. RATING: 22,000 | **PHASE:** 3 | **MAIN TYPE:**
WIRE: 4 | **MAIN RATING:**

CKT	LOAD SERVED (ROOM)	CONTROLS	ZONES	DESCRIPTION	# Of LAMPS	Load	DIMMER TYPE	WIRE & CONDUIT	REMARKS/COMMENTS
1	VEST 101	D1	1	MODULE 1	2	160 VA	0-10V	4#12+G-3/4"C	
2	OFFICE 112	B1,B3	2	MODULE 1	2	900 VA	0-10V	4#12+G-3/4"C	
3	STORAGE 111	E	3	MODULE 1	4	248 VA	0-10V	4#12+G-3/4"C	
4	CORR 110	D1	4	MODULE 1	2	160 VA	0-10V	4#12+G-3/4"C	
5	CORR 105	D1	5	MODULE 2	2	160 VA	0-10V	4#12+G-3/4"C	
6	FAMILY 109	D1	6	MODULE 2	2	160 VA	0-10V	4#12+G-3/4"C	
7	JAN 106	E	7	MODULE 2	1	62 VA	0-10V	4#12+G-3/4"C	
8	WOMENS 107	D1	8	MODULE 2	3	240 VA	0-10V	4#12+G-3/4"C	
9	MENS 108	D1	11	MODULE 3	3	240 VA	0-10V	4#12+G-3/4"C	
10	VEST 129	D1	14	MODULE 3	2	160 VA	0-10V	4#12+G-3/4"C	
11	GREAT HALL 102	P	17	MODULE 3	12	1980 VA	0-10V	4#12+G-3/4"C	
12	GIFT SHOP 103	A1	21	MODULE 3	2	200 VA	0-10V	4#12+G-3/4"C	
13	CAFE 104	D1	22	MODULE 4	2	160 VA	0-10V	4#12+G-3/4"C	
14	CAFE 104	L1,L3	23	MODULE 4	2	214 VA	0-10V	4#12+G-3/4"C	
15	CAFE 104	C	24	MODULE 4	7	238 VA	0-10V	4#12+G-3/4"C	
16	KITCHEN 104A	W	25	MODULE 4	2	80 VA	0-10V	4#12+G-3/4"C	
17	CLASSROOM 114	T	26	MODULE 5	5	674 VA	0-10V	4#12+G-3/4"C	
18	MEETING ROOM 115	T	27	MODULE 5	5	674 VA	0-10V	4#12+G-3/4"C	
19	AV 113	J	28	MODULE 5	2	80 VA	0-10V	4#12+G-3/4"C	
20	TABLE STORAGE 116	J	29	MODULE 5	2	80 VA	0-10V	4#12+G-3/4"C	
21	Spare	--	--	--	--	0 VA	--	--	
22	WARMING KITCHEN 128	G	31	MODULE 6	5	400 VA	0-10V	4#12+G-3/4"C	
23	GALLERIES 118, 120, 121	F	32	MODULE 6	11	1760 VA	0-10V	4#12+G-3/4"C	
24	VIEWING ROOM 122A	H	33	MODULE 6	2	80 VA	0-10V	4#12+G-3/4"C	
				Total Load:		8958 VA			
				Total Amps:		11 A			

Notes:

DIMMER PANEL: EDP2

LOCATION: | **MANUFACTURER:**
SUPPLY FROM: ELA | **VOLTS:** 480/277 Wye | **MODEL # :**
A.I.C. RATING: 22,000 | **PHASE:** 3 | **MAIN TYPE:**
WIRE: 4 | **MAIN RATING:**

CKT	LOAD SERVED (ROOM)	CONTROLS	ZONES	DESCRIPTION	# Of LAMPS	Load	DIMMER TYPE	WIRE & CONDUIT	REMARKS/COMMENTS
1	COLL. STOR. 122B	J	34	MODULE 1	2	80 VA	0-10V	4#12+G-3/4"C	
2	VEST 119	D1	35	MODULE 1	2	160 VA	0-10V	4#12+G-3/4"C	
3	GALLERY ENTRIES	M	36	MODULE 1	3	240 VA	0-10V	4#12+G-3/4"C	
4	GALLERY ENTRIES	M	36	MODULE 1	1	34 VA	0-10V	4#12+G-3/4"C	
5	VEST STAGING 123	E	37	MODULE 2	4	248 VA	0-10V	4#12+G-3/4"C	
6	ELECTRIC 124	E	38	MODULE 2	2	124 VA	0-10V	4#12+G-3/4"C	
7	EMG DIST 125	E	39	MODULE 2	2	124 VA	0-10V	4#12+G-3/4"C	
8	FIRE PUMP 126	E	40	MODULE 2	2	124 VA	0-10V	4#12+G-3/4"C	
9	MECH. MEZZANINE 201	E	41	MODULE 3	5	310 VA	0-10V	4#12+G-3/4"C	
10	BOILER 127	E	41	MODULE 3	3	186 VA	0-10V	4#12+G-3/4"C	
11	EXTERIOR ENTRANCES	U	42	MODULE 3	15	900 VA	0-10V	4#12+G-3/4"C	
12	STAIR 100	K	43	MODULE 3	2	635 VA	0-10V	4#12+G-3/4"C	
13	STAIR 100	K	43	MODULE 4	2	635 VA	0-10V	4#12+G-3/4"C	
14	Spare	--	--	--	--	0 VA	--	--	
15	Spare	--	--	--	--	0 VA	--	--	
16	Spare	--	--	--	--	0 VA	--	--	
17	Spare	--	--	--	--	0 VA	--	--	
18	Spare	--	--	--	--	0 VA	--	--	
19	Spare	--	--	--	--	0 VA	--	--	
20	Spare	--	--	--	--	0 VA	--	--	
21	Spare	--	--	--	--	0 VA	--	--	
22	Spare	--	--	--	--	0 VA	--	--	
23	Spare	--	--	--	--	0 VA	--	--	
24	Spare	--	--	--	--	0 VA	--	--	
				Total Load:		3748 VA			
				Total Amps:		5 A			

Notes:

PANEL SCHEDULE NOTES:

ALL BRANCH CIRCUIT WIRE SIZES SHALL BE 2#12+G IN 3/4"C. UNLESS OTHERWISE NOTED. TYPICAL FOR ALL BRANCH PANELBOARDS.

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ELECTRICAL PANEL SCHEDULES

E6.01

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 2246
DRAWN BY: LF
CHECKED BY: LF

Panel: LPA

Location: Space 281 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 25,000
Supply From: MDB | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** MLO

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A	B	C	#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1					10609 5978							2
3	XF-RPA	3#2 + #8G - 1 1/4"C	110	3		5993 3798		3	60	3#6 + #10 - 1"C	DP1	4
5							5786 5333					6
7					3487 0			1	20		Spare	8
9	DP2	3#6 + #10 - 1"C	60	3		1338 0		1	20		Spare	10
11							1554 0	1	20		Spare	12
13	Spare		20	1	0 0			1	20		Spare	14
15	Spare		20	1		0 0		1	20		Spare	16
17	Space		--	1			-- --	1	--		Space	18
19	Space		--	1	-- --			1	--		Space	20
21	Space		--	1		-- --		1	--		Space	22
23	Space		--	1			-- --	1	--		Space	24
25	Space		--	1	-- --			1	--		Space	26
27	Space		--	1		-- --		1	--		Space	28
29	Space		--	1			-- --	1	--		Space	30
31	Space		--	1	-- --			1	--		Space	32
35	Space		--	1		-- --		1	--		Space	36
37	Space		--	1	-- --			1	--		Space	38
39	Space		--	1		-- --		1	--		Space	40
41	Space		--	1			-- --	1	--		Space	42
	Total VA				20005	11118	12617					

Total Connected Load (VA): 43738 VA
Total Connected Current (Amps): 53 A

Panel: RPA

Location: Space 281 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: XF-RPA | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** MLO

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A	B	C	#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1	Electric Flush Valves	2#12 + #10...	20	1	1800... 1260...			1	20	2#12 + #10...	Transformer - 120 ...	2
3	GALLERY REC.	2#12 + #10...	20	1		360 VA 720 VA		1	20	2#12 + #10...	GALLERY REC.	4
5	Great Hall Floorbox	2#12 + #10...	20	1			360 VA 360 VA	1	20	2#12 + #10...	Great Hall Floorbox	6
7	FCU-2	2#12 + #10...	20	1	300 VA 180 VA			1	20	2#12 + #10...	Projector	8
9	CLASSROOM REC.	2#12 + #10...	20	1		360 VA 360 VA		1	20	2#12 + #10...	111 STORAGE...	10
11	CLASSROOM REC.	2#12 + #10...	20	1			360 VA 557 VA	1	20	2#12 + #10...	CLASSROOM REC.	12
13	CLASSROOM REC.	2#12 + #10...	20	1	360 VA 1720...			1	20	2#12 + #10...	Handicap Doors	14
15	Motorized Door	2#12 + #10...	20	1		1720... 300 VA		1	20	2#12 + #10...	FCU-1 & FPB-1	16
17	Sundialer Repeater	2#10+#10...	20	1			180 VA 180 VA	1	20	2#12 + #10...	Sundialer Controller	18
19	Motorized Sunshade	2#10+#10...	20	1	750 VA 1650...			1	20	2#10+#10...	Motorized Sunshade	20
21	Floor Box	2#12 + #10...	20	1		360 VA 540 VA		1	20	2#12 + #10...	112 OFFICE REC.	22
23	CORR REC.	2#12 + #10...	20	1			360 VA 180 VA	1	20	2#12 + #10...	Hand Dryer	24
25	Electric Flush Valves	2#12 + #10...	20	1	1620... 180 VA			1	20	2#12 + #10...	Hand Dryer	26
27	Hand Dryer	2#12 + #10...	20	1		180 VA 180 VA		1	20	2#12 + #10...	Hand Dryer	28
29	Hand Dryer	2#12 + #10...	20	1			180 VA 1080...	1	20	2#12 + #10...	Electric Flush Valves	30
31	Event Power	2#8+#8G-1" C.	50	2	90 VA 60 VA							32
33						90 VA 60 VA		3	40	4#8 + #10G - 3/4"c	Water Feature	34
35	COLLECTIONS &...	2#12 + #10...	20	1			1080... 60 VA					36
37	Roof Receptacle	2#12 + #10...	20	1	180 VA 734 VA			1	20	2#12 + #10...	EF-1	38
39	Projector	2#12 + #10...	20	1		180 VA 720 VA		1	20	2#12 + #10...	Exterior Recep	40
41	MEETING ROOM...	2#12 + #10...	20	1			900 VA 0 VA	1	20		Spare	42
43	Spare		20	1	0 VA 0 VA			1	20		Spare	44
45	Spare		20	1		0 VA 0 VA		1	20		Spare	46
47	Spare		20	1			0 VA 0 VA	1	20		Spare	48
49	Spare		20	1	0 VA 0 VA			1	20		Spare	50
51	Spare		20	1		0 VA 0 VA		1	20		Spare	52
53	Spare		20	1			0 VA 0 VA	1	20		Spare	54
55	Spare		20	1	0 VA 0 VA			1	20		Spare	56
57	Spare		20	1		0 VA 0 VA		1	20		Spare	58
59	Spare		20	1			0 VA 0 VA	1	20		Spare	60
61	Spare		20	1	0 VA 0 VA			1	20		Spare	62
63	Spare		20	1		0 VA 0 VA		1	20		Spare	64
65	Spare		20	1			0 VA 0 VA	1	20		Spare	66
67	Spare		20	1	0 VA 0 VA			1	20		Spare	68
69	Spare		20	1		0 VA 0 VA		1	20		Spare	70
71	Spare		20	1			0 VA 0 VA	1	20		Spare	72
73	Spare		20	1	0 VA 0 VA			1	20		Spare	74
75	Spare		20	1		0 VA 0 VA		1	20		Spare	76
77	Spare		20	1			0 VA 0 VA	1	20		Spare	78
79	Spare		20	1	0 VA 0 VA			1	20		Spare	80
81	Spare		20	1		0 VA 0 VA		1	20		Spare	82
83	Spare		20	1			0 VA 0 VA	1	20		Spare	84
	Total VA				10609	5993	5786					

Total Connected Load (VA): 22334 VA
Total Connected Current (Amps): 62 A

DIMMER PANEL: DP1

LOCATION: | **VOLTS:** 480/277 Wye | **MANUFACTURER:**
SUPPLY FROM: LPA | **PHASE:** 3 | **MODEL # :**
A.I.C. RATING: 22,000 | **WIRE:** 4 | **MAIN TYPE:**
| | **MAIN RATING:**

CKT	LOAD SERVED (ROOM)	CONTROLS	ZONES	DESCRIPTION	# Of LAMPS	Load	DIMMMER TYPE	WIRE & CONDUIT	REMARKS/COMMENTS
1	VEST 101	D1	1	MODULE 1	2	160 VA	0-10V	4#12+G-3/4"C	
2	OFFICE 112	B2	2	MODULE 1	1	450 VA	0-10V	4#12+G-3/4"C	
3	STORAGE 111	E	3	MODULE 1	4	248 VA	0-10V	4#12+G-3/4"C	
4	CORR 105	D1	5	MODULE 1	1	80 VA	0-10V	4#12+G-3/4"C	
5	FAMILY 109	N	6	MODULE 2	1	150 VA	0-10V	4#12+G-3/4"C	
6	WOMENS 107	D1,D3	8	MODULE 2	17	1360 VA	0-10V	4#12+G-3/4"C	
7	WOMENS 107	N	9	MODULE 2	4	600 VA	0-10V	4#12+G-3/4"C	
8	WOMENS 107	V	10	MODULE 2	1	600 VA	0-10V	4#12+G-3/4"C	
9	MENS 108	D1,D3	11	MODULE 3	12	960 VA	0-10V	4#12+G-3/4"C	
10	MENS 108	N	12	MODULE 3	4	600 VA	0-10V	4#12+G-3/4"C	
11	MENS 108	V	13	MODULE 3	1	600 VA	0-10V	4#12+G-3/4"C	
12	VEST 129	D1	14	MODULE 3	2	160 VA	0-10V	4#12+G-3/4"C	
13	GREAT HALL 102	D1	15	MODULE 4	6	480 VA	0-10V	4#12+G-3/4"C	
14	GREAT HALL 102	D2	16	MODULE 4	2	160 VA	0-10V	4#12+G-3/4"C	
15	GREAT HALL 102	P	17	MODULE 4	14	2310 VA	0-10V	4#12+G-3/4"C	
16	GREAT HALL 102	Q	18	MODULE 4	4	1544 VA	0-10V	4#12+G-3/4"C	
17	GREAT HALL 102	Q	18	MODULE 5	3	1433 VA	0-10V	4#12+G-3/4"C	
18	GREAT HALL 102	R	19	MODULE 5	1	105 VA	0-10V	4#12+G-3/4"C	
19	GREAT HALL 102	S	20	MODULE 5	24	2391 VA	0-10V	4#12+G-3/4"C	
20	GIFT SHOP 103	A2,A3	21	MODULE 5	2	200 VA	0-10V	4#12+G-3/4"C	
21	CAFÉ 104	D1	22	MODULE 6	3	240 VA	0-10V	4#12+G-3/4"C	
22	CAFÉ 104	L2,L4	23	MODULE 6	2	186 VA	0-10V	4#12+G-3/4"C	
23	CAFÉ 104	C	24	MODULE 6	8	238 VA	0-10V	4#12+G-3/4"C	
24	KITCHEN 104A	W	25	MODULE 6	2	80 VA	0-10V	4#12+G-3/4"C	
				Total Load:		15046 VA			
				Total Amps:		18 A			

Notes:

Panel: RP-AV1

Location: Space 292 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: XF-AV1 | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:**

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A	B	C	#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1	113 AV REC.	2#12 + 1#10G - 3/4"C	20	1	540 1240			1	20	2#12 + 1#10G - 3/4"C	FCU-3	2
3	AV RACK	2#6 + 1#10G - 3/4"C	40	1		3600 3600		1	40	2#6 + 1#10G - 3/4"C	AV RACK	4
5	AV RACK	2#6 + 1#10G - 3/4"C	40	1			3600 3600	1	40	2#6 + 1#10G - 3/4"C	AV RACK	6
7	GREAT HALL FLOOR...	2#12 + 1#10G - 3/4"C	20	1	800 800			1	20	2#12 + 1#10G - 3/4"C	GREAT HALL FLOOR...	8
9	GREAT HALL FLOOR...	2#12 + 1#10G - 3/4"C	20	1		500 1600		1	20	2#12 + 1#10G - 3/4"C	EXHIBIT AV	10
11	EXHIBIT AV	2#12 + 1#10G - 3/4"C	20	1			1600 1600	1	20	2#12 + 1#10G - 3/4"C	EXHIBIT AV	12
13	EXHIBIT AV	2#12 + 1#10G - 3/4"C	20	1	1600 1600			1	20	2#12 + 1#10G - 3/4"C	EXHIBIT AV	14
15	EXHIBIT AV	2#12 + 1#10G - 3/4"C	20	1		1600 1600		1	20	2#12 + 1#10G - 3/4"C	EXHIBIT AV	16
17	EXHIBIT AV	2#12 + 1#10G - 3/4"C	20	1			1600 1600	1	20	2#12 + 1#10G - 3/4"C	EXHIBIT AV	18
19	EXHIBIT AV	2#12 + 1#10G - 3/4"C	20	1	1600 1600			1	20	2#12 + 1#10G - 3/4"C	EXHIBIT AV	20
21	EXHIBIT AV	2#12 + 1#10G - 3/4"C	20	1		1600 1600		1	20	2#12 + 1#10G - 3/4"C	EXHIBIT AV	22
23	EXHIBIT AV	2#12 + 1#10G - 3/4"C	20	1			1600 1600	1	20	2#12 + 1#10G - 3/4"C	EXHIBIT AV	24
25	EXHIBIT AV	2#12 + 1#10G - 3/4"C	20	1	1600 1600			1	20	2#12 + 1#10G - 3/4"C	EXHIBIT AV	26
27	EXHIBIT AV	2#12 + 1#10G - 3/4"C	20	1		800 1000		1	20	2#12 + 1#10G - 3/4"C	EXHIBIT LTG	28
29	EXHIBIT LTG	2#12 + 1#10G - 3/4"C	20	1			1500 1000	1	20	2#12 + 1#10G - 3/4"C	EXHIBIT LTG	30
31	EXHIBIT LTG	2#12 + 1#10G - 3/4"C	20	1	500 1000			1	20	2#12 + 1#10G - 3/4"C	EXHIBIT LTG	32
33	EXHIBIT LTG	2#12 + 1#10G - 3/4"C	20	1		1000 1000		1	20	2#12 + 1#10G - 3/4"C	EXHIBIT LTG	34
35	EXHIBIT LTG	2#12 + 1#10G - 3/4"C	20	1			1000 1000	1	20	2#12 + 1#10G - 3/4"C	EXHIBIT LTG	36
37	Spare		20	1	0 0			1	20		Spare	38
39	Spare		20	1		0 0		1	20		Spare	40
41	Spare		20	1			0 0	1	20		Spare	42
	Total VA				14366	19500	21300					

Total Connected Load (VA): 55159 VA
Total Connected Current (Amps): 153 A

Panel: RP-AV2

Location: MECH. MEZZANINE 201 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: XF-AV2 | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:**

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A	B	C	#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1	LTG GRID	2#12 + 1#10G - 3/4"C	20	1	1000 1000			1	20	2#12 + 1#10G - 3/4"C	LTG GRID	2
3	LTG GRID	2#12 + 1#10G - 3/4"C	20	1		1000 1000		1	20	2#12 + 1#10G - 3/4"C	LTG GRID	4
5	LTG GRID	2#12 + 1#10G - 3/4"C	20	1			1000 1000	1	20	2#12 + 1#10G - 3/4"C	LTG GRID	6
7	LTG GRID	2#12 + 1#10G - 3/4"C	20	1	1000 1000			1	20	2#12 + 1#10G - 3/4"C	LTG GRID	8
9	LTG GRID	2#12 + 1#10G - 3/4"C	20	1		1000 1000		1	20	2#12 + 1#10G - 3/4"C	LTG GRID	10
11	LTG GRID	2#12 + 1#10G - 3/4"C	20	1			1000 500	1	20	2#12 + 1#10G - 3/4"C	LTG GRID	12
13	LTG GRID	2#12 + 1#10G - 3/4"C	20	1	1000 1000			1	20	2#12 + 1#10G - 3/4"C	LTG GRID	14
15	LTG GRID	2#12 + 1#10G - 3/4"C	20	1		1000 1000		1	20	2#12 + 1#10G - 3/4"C	LTG GRID	16
17	LTG GRID	2#12 + 1#10G - 3/4"C	20	1			1000 1000	1	20	2#12 + 1#10G - 3/4"C	LTG GRID	18
19	LTG GRID	2#12 + 1#10G - 3/4"C	20	1	1000 1000			1	20	2#12 + 1#10G - 3/4"C	LTG GRID	20
21	LTG GRID	2#12 + 1#10G - 3/4"C	20	1		1000 1000		1	20	2#12 + 1#10G - 3/4"C	LTG GRID	22
23	CEIL. PROJECTOR	2#12 + 1#10G - 3/4"C	20	1			1200 1200	1	20	2#12 + 1#10G - 3/4"C	CEIL. PROJECTOR	24
25	CEIL. PROJECTOR	2#12 + 1#10G - 3/4"C	20	1	1200 1200			1	20	2#12 + 1#10G - 3/4"C	CEIL. PROJECTOR	26
27	CEIL. PROJECTOR	2#12 + 1#10G - 3/4"C	20	1		1200 1200		1	20	2#12 + 1#10G - 3/4"C	CEIL. PROJECTOR	28
29	CEIL. PROJECTOR	2#12 + 1#10G - 3/4"C	20	1			1200 1200	1	20	2#12 + 1#10G - 3/4"C	CEIL. PROJECTOR	30
31	CEIL. PROJECTOR	2#12 + 1#10G - 3/4"C	20	1	1200 1200			1	20	2#12 + 1#10G - 3/4"C	CEIL. PROJECTOR	32
33	CEIL. PROJECTOR	2#12 + 1#10G - 3/4"C	20	1		1200 1200		1	20	2#12 + 1#10G - 3/4"C	CEIL. PROJECTOR	34
35	CEIL. PROJECTOR	2#12 + 1#10G - 3/4"C	20	1			1200 1200	1	20	2#12 + 1#10G - 3/4"C	CEIL. PROJECTOR	36
37	CEIL. PROJECTOR	2#12 + 1#10G - 3/4"C	20	1	1200 250			1	20	2#12 + 1#10G - 3/4"C	GREAT HALL CEIL....	38
39	Spare		20	1		0 0		1	20		Spare	40
41	Spare		20	1			0 0	1	20		Spare	42
	Total VA				14250	12800	12700					

Total Connected Load (VA): 39750 VA
Total Connected Current (Amps): 110 A

DIMMER PANEL: DP2

LOCATION: | **VOLTS:** 480/277 Wye | **MANUFACTURER:**
SUPPLY FROM: LPA | **PHASE:** 3 | **MODEL # :**
A.I.C. RATING: 22,000 | **WIRE:** 4 | **MAIN TYPE:**
| | **MAIN RATING:**

CKT	LOAD SERVED (ROOM)	CONTROLS	ZONES	DESCRIPTION	# Of LAMPS	Load	DIMMMER TYPE	WIRE & CONDUIT	REMARKS/COMMENTS
1	CLASSROOM 114	T	26	MODULE 1	5	689 VA	0-10V	4#12+G-3/4"C	
2	MEETING ROOM 115	T	27	MODULE 1	5	689 VA	0-10V	4#12+G-3/4"C	
3	AV 113	E	28	MODULE 1	1	40 VA	0-10V	4#12+G-3/4"C	
4	TABLE STORAGE 116	E	29	MODULE 1	1	40 VA	0-10V	4#12+G-3/4"C	
5	WARMING KITCHEN 128	G	31	MODULE 2	5	400 VA	0-10V	4#12+G-3/4"C	
6	GALLERIES 118,120,121	F	32	MODULE 2	7	960 VA	0-10V	4#12+G-3/4"C	
7	VIEWING ROOM 122A	H	33	MODULE 2	2	80 VA	0-10V	4#12+G-3/4"C	
8	COLL. STOR. 122B	J	34	MODULE 2	2	80 VA	0-10V	4#12+G-3/4"C	
9	VEST 119	D1	35	MODULE 3	1	80 VA	0-10V	4#12+G-3/4"C	
10	VEST STAGING 123	E	37	MODULE 3	5	310 VA	0-10V	4#12+G-3/4"C	
11	BOILER 127	E	41	MODULE 3	3	186 VA	0-10V	4#12+G-3/4"C	
12	MECH. MEZZANINE 201	E	41	MODULE 3	8	496 VA	0-10V	4#12+G-3/4"C	
13	Lighting Space 273	V	44	MODULE 4	4	2387 VA	0-10V	4#12+G-3/4"C	
14	Spare	--	--	--	--	0 VA	--	--	
15	Spare	--	--	--	--	0 VA	--	--	
16	Spare	--	--	--	--	0 VA	--	--	
17	Spare	--	--	--	--	0 VA	--	--	
18	Spare	--	--	--	--	0 VA	--	--	
19	Spare	--	--	--	--	0 VA	--	--	
20	Spare	--	--	--	--	0 VA	--	--	
21	Spare	--	--	--	--	0 VA	--	--	
22	Spare	--	--	--	--	0 VA	--	--	
23	Spare	--	--	--	--	0 VA	--	--	
24	Spare	--	--	--	--	0 VA	--	--	
				Total Load:		6371 VA			
				Total Amps:		8 A			

Notes:

Panel: KP1

Location: Space 255 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: XF-KP | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:**

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A	B	C	#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1	ROLL-IN REF.	2#12 + 1#12G - 3/4"C	20	1	943 2000			1	20	2#12 + 1#12G - 3/4"C	HEATED CABINET	2
3	HEATED CABINET	2#12 + 1#12G - 3/4"C	20	1		2000 368		1	20	2#12 + 1#12G - 3/4"C	REACH-IN FREEZE	4
5	REACH-IN REF.	2#12 + 1#12G - 3/4"C	20	1			495 1403	1	20	2#12 + 1#12G - 3/4"C	ICE MAKER	6
7	128 KITCHEN REC.	2#12 + 1#12G - 3/4"C	20	1	720 7433							8
9						5520 7433		3	80	3#4 + #8G - 1 1/4"C	COMBI OVEN, ELECTRIC	10
11	DISHWASHER	3#6 + #10G - 1"C	60	3			5520 7433					12
13					5520 0			1	20		Spare	14
15	Spare		20	1		0 0		1	20		Spare	16
17	Spare		20	1			0 0	1	20		Spare	18
19	Spare		20	1	0 0			1	20		Spare	20
21	Spare		20	1		0 0		1	20		Spare	22
23	Spare		20	1			0 0	1	20		Spare	24
25	Spare		20	1	0 0			1	20		Spare	26
27	Spare		20	1		0 0		1	20		Spare	28
29	Spare		20	1			0 0	1	20		Spare	30
31	Spare		20	1	0 0			1	20		Spare	32
33	Spare		20	1		0 0		1	20		Spare	34
35	Spare		20	1			0 0	1	20		Spare	36
37	Spare		20	1	0 0			1	20		Spare	38
39	Spare		20	1		0 0		1	20		Spare	40
41	Spare		20	1			0 0	1	20		Spare	42
	Total VA				16616	15321	14851					

Total Connected Load (VA): 46789 VA
Total Connected Current (Amps): 130 A

PANEL SCHEDULE NOTES:

ALL BRANCH CIRCUIT WIRE SIZES SHALL BE 2#12+G IN 3/4"C. UNLESS OTHERWISE NOTED. TYPICAL FOR ALL BRANCH PANELBOARDS.

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HICAPS

RAA

SAMET

99% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

#	Description	Date

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ELECTRICAL PANEL SCHEDULES

E6.02

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 2246
DRAWN BY: LF
CHECKED BY: LF

Panel: LPST

Location: Space 281
Supply From: XF-LPST
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type:
Mains Rating: 225 A
MCB Rating: MLO

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A		B		C		#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1	REACH-IN REF.	2#12...	20	1	644	644					1	20	2#12...	REACH-IN REF.	2
3	REACH-IN HEATED...	2#12...	20	1			850	161			1	20	2#12...	DRAFT BEER COOLER	4
5	REACH-IN UC REF.	2#12...	20	1					230	230	1	20	2#12 +1#12G - 3/4"C	UC REFRIGERATOR	6
7	RAPID COOK OVEN	3#8 + 1#10G - 3/4"C	40	2	3100	518					1	20	2#12 +1#12G - 3/4"C	PREP REFRIGERATOR	8
9							3100	3100			2	40	3#8 + 1#10G - 3/4"C	RAPID COOK OVEN	10
11	DISPLAY CASE REF.	2#12...	20	1					1150	3100					12
13	UC REFRIGERATOR	2#12...	20	1	230	2300					2	30	3#10+1#10G -3/4"C	ESPRESSO MACHINE	14
15	Power Space 277	2#12 +1#12G - 3/4"C	20	1			540	2300							16
17	Floor Box	2#12 +1#12G - 3/4"C	20	1					360	360	1	20	2#12...	Floor Box	18
19	Store Recep	2#12...	20	1	360	360					1	20	2#12...	Floor Box	20
21							317	1080			1	20		RECEPTION REC.	22
23	Overhead Door	3#12 +1#12G - 3/4"C	20	3					317	3300	2	40	3#8 + 1#10G - 3/4"C	COFFEE BREWER	24
25					317	3300									26
27							2206	180			1	20	2#12...	Roof Recep	28
29	AHU-6	3#10+1#10G - 3/4"C	30	3					2206	0	1	20		Spare	30
31					2206	0					1	20		Spare	32
33	Spare		20	1			0	0			1	20		Spare	34
35	Spare		20	1					0	0	1	20		Spare	36
37	Spare		20	1	0	0					1	20		Spare	38
39	Spare		20	1			0	0			1	20		Spare	40
41	Spare		20	1					0	0	1	20		Spare	42
	Total VA				13770		13626		11056						

Total Connected Load (VA):	38450 VA
Total Connected Current (Amps):	107 A

Panel: PPA

Location: Space 299
Supply From: XF-PPA
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type:
Mains Rating: 225 A
MCB Rating:

CKT	Circuit Description	Wire Size (AWG)	Trip	#P	A		B		C		#P	Trip	Wire Size (AWG)	Circuit Description	CKT
1					317 VA	1510...					2	20	2#12 + 1#10G - 3/4"C	CUH-1	2
3	Dock Leveler	3#12 + 1#10G - 3/4"C	20	3			317 VA	1510...							4
5									317 VA	300 VA	1	20	2#12 + 1#10G - 3/4"C	UH-3	6
7	UH-4	2#12 + 1#10G - 3/4"C	20	1	300 VA	300 VA					1	20	2#12 + 1#10G - 3/4"C	UH-4	8
9	EF-6	2#12 + 1#10G - 3/4"C	20	1			300 VA	720 VA			1	20	2#12 + 1#10G - 3/4"C	Corridor Recep	10
11	VESTIBULE 123...	2#12 + 1#10G - 3/4"C	20	1					720 VA	300 VA	1	20	2#12 + 1#10G - 3/4"C	EF-5	12
13	Hot Boxes	2#12 + 1#10G - 3/4"C	20	1	180 VA	180 VA					1	20	2#12 + 1#10G - 3/4"C	Irrigation Control	14
15	VAV Controls	2#12 + 1#10G - 3/4"C	20	1			180 VA	2024...			1	20	2#12 + 1#10G - 3/4"C	Irrigation Booster...	16
17	Heat Trace	2#12 + 1#10G - 3/4"C	20	1					180 VA	180 VA	1	20	2#12 + 1#10G - 3/4"C	Hot Boxes	18
19	UH-1	2#12 + 1#10G - 3/4"C	20	2	458 VA	180 VA					1	20	2#12 + 1#10G - 3/4"C	Hot Boxes	20
21							458 VA	275 VA			2	20	2#12 + 1#10G - 3/4"C	UH-2	22
23	EF-8	2#12 + 1#10G - 3/4"C	20	1					300 VA	275 VA					24
25					0 VA	462 VA									26
27	Spare		20	3			0 VA	462 VA			3	20	3#12+G-3/4"C	Glycol Fill System	28
29									0 VA	462 VA					30
31					0 VA	0 VA									32
33	Spare		20	3			0 VA	0 VA			3	20		Spare	34
35									0 VA	0 VA					36
37	BCU-4		20	1	300 VA	0 VA									38
39	Spare		20	1			0 VA	0 VA			3	20		Spare	40
41	Spare		20	1					0 VA	0 VA					42
43	Spare		20	1	0 VA	0 VA					1	20		Spare	44
45	Spare		20	1			0 VA	0 VA			1	20		Spare	46
47	Spare		20	1					0 VA	0 VA	1	20		Spare	48
49	Spare		20	1	0 VA	0 VA					1	20		Spare	50
51	Spare		20	1			0 VA	0 VA			1	20		Spare	52
53	Spare		20	1					0 VA	0 VA	1	20		Spare	54
55	Spare		20	1	0 VA	0 VA					1	0		Spare	56
57	Spare		0	1			0 VA	0 VA			1	0		Spare	58
59	Spare		0	1					0 VA	0 VA	1	0		Spare	60
61	Spare		0	1	0 VA	0 VA					1	0		Spare	62
63	Spare		0	1			0 VA	0 VA			1	0		Spare	64
65	Spare		0	1					0 VA	0 VA	1	0		Spare	66
67	Space		--	1	--	--					1	--		Space	68
69	Space		--	1			--	--			1	--		Space	70
71	Space		--	1					--	--	1	--		Space	72
73	Space		--	1	--	--					1	--		Space	74
75	Space		--	1			--	--			1	--		Space	76
77	Space		--	1					--	--	1	--		Space	78
79	Space		--	1	--	--					1	--		Space	80
81	Space		--	1			--	--			1	--		Space	82
83	Space		--	1					--	--	1	--		Space	84
	Total VA				4140		6168		2964						

Total Connected Load (VA):	13261 VA
Total Connected Current (Amps):	37 A

PANEL SCHEDULE NOTES:

ALL BRANCH CIRCUIT WIRE SIZES SHALL BE 2#12+G IN 3/4"C. UNLESS OTHERWISE NOTED. TYPICAL FOR ALL BRANCH PANELBOARDS.

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HICAPS

RAA

SAMET

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#	Description	Date

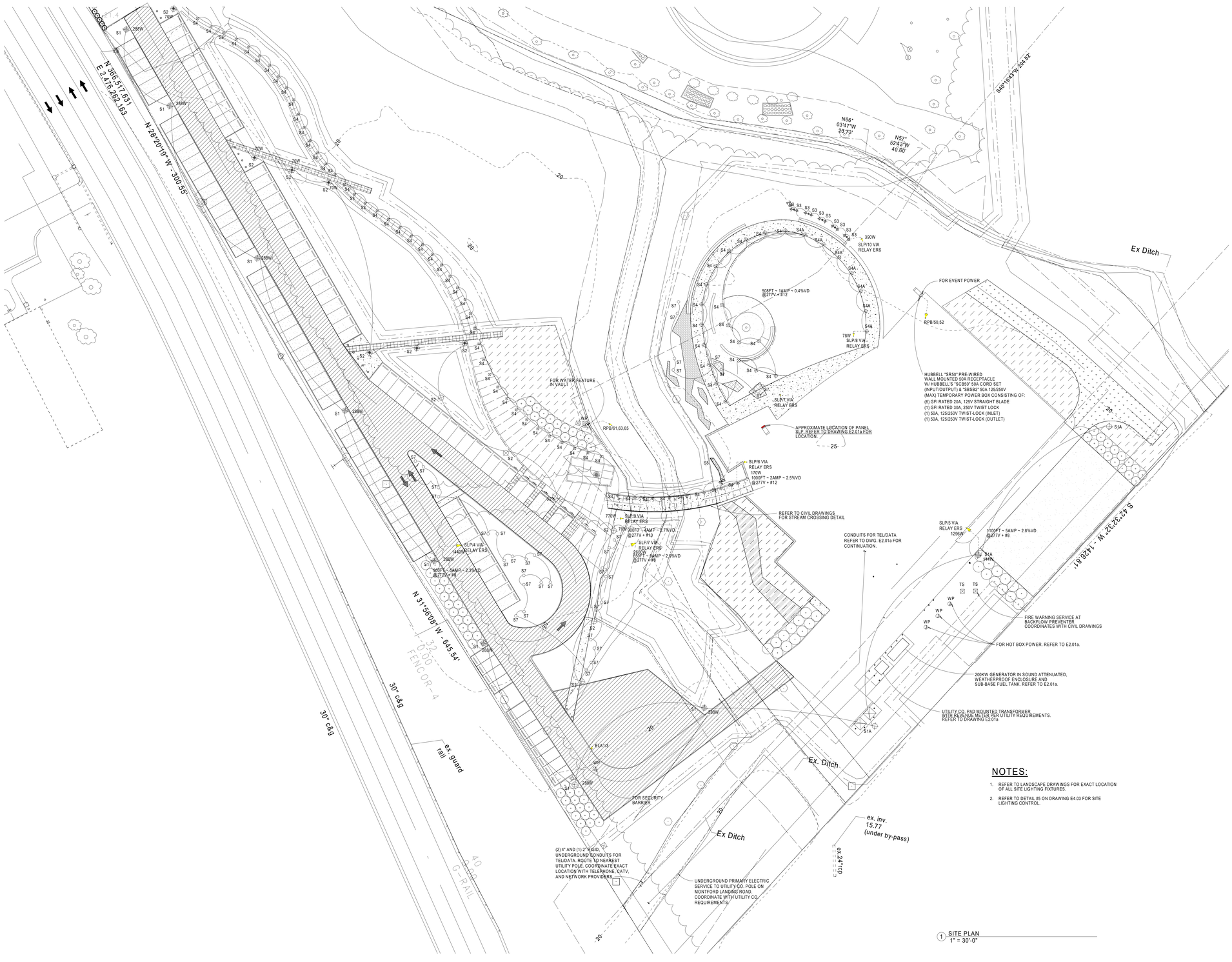
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ELECTRICAL PANEL SCHEDULES

E6.03

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 2246
DRAWN BY: LF
CHECKED BY: LF



1 SITE PLAN
1" = 30'-0"

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ELECTRICAL SITE PLAN

SE1.00

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 2246
DRAWN BY: LF
CHECKED BY: LF

FIRE PROTECTION NOTES

SCOPE OF WORK

NEW WORK:

1. THE NEW BUILDING SHALL BE PROTECTED THROUGHOUT BY NEW AUTOMATIC WET SPRINKLER PROTECTION. SINCE THE FLOOR LEVEL OF THE HIGHEST STORY IN THE BUILDING IS LESS THAN 30' IN HEIGHT, FIRE STANDPIPE IS NOT REQUIRED PER NORTH CAROLINA BUILDING CODE.
2. INCLUDE NEW 6" FIRE PROTECTION UG PIPING (BY CIVIL DIVISION) AND 6" BACKFLOW PREVENTER (BY CIVIL DIVISION). ALSO INCLUDE NEW 6" RISER CHECK VALVE ASSEMBLY.
3. PROVIDE A NEW 500 GPM ±40 HP HORIZONTAL SPLIT CASE FIRE PUMP ASSEMBLY WITH ASSOCIATED CONTROLLERS, JOCKEY PUMP, AND FIRE PUUMP TEST HEADER IN N PUMP ROOM 126.
4. PROVIDE A NEW 3" PREACTION-PAC CABINET WITH INTEGRATED NITROGEN FOR COLLECTIONS STORAGE 122B.
5. PROVIDE NEW 2-WAY FLUSH MOUNT FIRE DEPARTMENT CONNECTION (FDC). FINAL LOCATION AND STYLE TO BE CONFIRMED BY LOCAL FIRE MARSHAL.

GENERAL REQUIREMENTS

1. THE DESIGN, INSTALLATION, COMPONENTS AND ACCEPTANCE TESTING OF THE AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH THE MOST RECENT NORTH CAROLINA BUILDING CODE AND UFC 3-600-01, AS AMENDED, AND WITH ALL APPLICABLE BUILDING CODE ARTICLES AND REFERENCE STANDARDS CITED THEREIN INCLUDING NFPA 13, 14 & 20 AND THE IBC.
2. WORK STARTS AT THE CONNECTION TO THE NEW 6" FIRE PROTECTION SUPPLY MAIN IN THE LOWER LEVEL.
3. USE ONLY UL/FM APPROVED SPRINKLERS AND COMPONENTS.
4. CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SITE CONDITIONS AS PART OF PREPARATION FOR SUBMITTING BID. ANY NOTABLE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER (IN WRITING) PRIOR TO SUBMITTING BID. AFTER AWARD OF CONTRACT, RESOLUTION OF SUCH DISCREPANCIES INCLUDING MATERIAL, LABOR, AND ENGINEERING COSTS, IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR SHALL REVIEW ALL EXISTING AND EXPECTED SITE AND BUILDING CONDITIONS AS PART OF PREPARATION FOR SUBMITTING BID, AND BECOME FAMILIAR WITH THE OVERALL PROJECT SCOPE, NOTING DEGREE OF DIFFICULTY, INCLUDING GETTING EQUIPMENT IN AND OUT OF THE BUILDING, AND POTENTIAL USE OF LIFTS AND/OR SCAFFOLDING.
6. CONTRACTOR SHALL COORDINATE ALL SPRINKLER LOCATIONS AND PIPING WITH ALL OTHER TRADES AND STRUCTURAL FEATURES.
7. CONTRACTOR SHALL SEAL AROUND ALL NEW PIPE PENETRATIONS THROUGHOUT THE BUILDING WITH FIRE SEAL DESIGN WITH A FIRE RESISTANCE EQUAL IN FIRE RATING TO THE STRUCTURE BEING PENETRATED. ALL FIRE STOPPING ASSEMBLIES SHALL BE UL LISTED.
8. ARRANGE PIPING TO FACILITATE FLUSHING. PROVIDE READILY ACCESSIBLE DRAIN AND FLUSHING CONNECTIONS AS REQUIRED BY NFPA 13. PROVIDE AND INSTALL AUXILIARY DRAINS WITH PROVISIONS FOR COMPLETE DRAINAGE. ALL SPRINKLER CONTROL ASSEMBLIES SHALL BE CONNECTED TO TEST AND DRAIN PIPING. PIPE ALL DRAINS TO THE BUILDING EXTERIOR OR OTHER ENGINEER APPROVED LOCATION. WHERE APPROVED BY ENGINEER, AUXILIARY DRAINS MAY CONSIST OF A DRAIN VALVE WITH HOSE CONNECTION AND CAP.
9. PROVIDE MAKES AND MODELS OF ALL SPRINKLERS AND COMPONENTS ON ALL SHOP DRAWINGS. ALL SYSTEM COMPONENTS SHALL BE CAPABLE OF WITHSTANDING A MINIMUM WORKING PRESSURE OF 175 PSI.
10. INSPECTOR'S TEST CONNECTIONS, DRAIN VALVES, AND CONTROL VALVES SHALL BE READILY ACCESSIBLE AND INSTALLED NO GREATER THAN +7'-0" ABOVE THE FINISHED FLOOR. PROVIDE IDENTIFICATION SIGNS AND TAGS FOR ALL VALVES. PROVIDE ELECTRONIC SUPERVISION FOR ALL CONTROL VALVES.
11. SPRINKLER LOCATIONS AND FP PIPING SHOWN ON F DRAWINGS IS DIAGRAMMATIC, AND INDICATES A GENERAL ARRANGEMENT OF WORK. REFER TO ARCHITECTURAL DRAWINGS FOR PREFERRED SPRINKLER LOCATIONS. DO NOT SCALE FIRE PROTECTION DRAWINGS FOR DIMENSIONS NOT INDICATED, BUT RATHER REFER TO ARCHITECT FOR RESOLUTION FOR ANY DIMENSIONS NOT INDICATED. DISCREPANCIES BETWEEN ARCHITECTURAL AND F DRAWINGS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER (IN WRITING) BEFORE PROCEEDING WITH WORK. PROVIDE ANY ADDITIONAL SPRINKLERS, PIPING, MATERIALS, LABOR, AND ENGINEERING REQUIRED FOR A COMPLETE, CODE COMPLIANT FIRE PROTECTION SYSTEM.
12. ALL NEW PIPING (INCLUDING MAINS) SHALL BE SCHEDULE 40 PIPE, ASTM A53, TYPE F, GRADE A (UNLESS NOTED OTHERWISE).
13. INSTALL A PRESSURE GAUGE WITH A MAINTENANCE VALVE AT THE TOP OF ALL RISERS.
14. ALL INTERIOR TEST & DRAIN PIPING AND ASSOCIATED FITTINGS SHALL BE GALVANIZED.
15. CONTRACTOR SHALL SECURE AND PAY COSTS OF ALL PERMITS, CERTIFICATES, LICENSES, INSPECTIONS, AND APPROVALS ASSOCIATED WITH THEIR WORK.
16. PROVIDE SPRINKLER PROTECTION BELOW ALL DUCTS AND OBSTRUCTIONS ACCORDANCE WITH THE OBSTRUCTION REQUIREMENTS OF NFPA 13.
17. FINISHED CEILING AREAS SHALL BE PROVIDED WITH CONCEALED PIPING AND SPRINKLERS, AND SHALL BE INSTALLED SYMMETRICAL AND LINEUP WITH ADJACENT CEILING FIXTURES AND LIGHTS. CUSTOM SPRINKLER FINISHES AND COVER PLATE AND ESCUTCHEON COLORS SHALL BE SELECTED BY ARCHITECT. SPRINKLERS SHALL BE CENTERED IN CEILING TILES WHERE APPLICABLE.
18. ALL EXPOSED PIPING IN PUBLIC SPACES SHALL BE CLEAN AND READY FOR PAINTING.
19. PROVIDE A COMPLETE VALVE TAG CHART. INCLUDE ALL CONTROL, TEST AND DRAIN VALVES. ON THE CHART, INCLUDE FUNCTION AND LOCATION OF EACH VALVE.
20. PROVIDE COMPLETE TEST AND DRAINAGE PIPING IN ACCORDANCE WITH NFPA 13. ALL DRAIN PIPE AND FITTINGS SHALL BE GALVANIZED .
21. INSTALL HEAD GUARDS ON ALL SPRINKLER HEADS IN MECHANICAL ROOMS AND ALL OTHER AREAS WHERE SUBJECT TO MECHANICAL DAMAGE.
22. **IN ADDITION TO THOSE SPRINKLERS REQUIRED TO PROVIDE COMPLETE SPRINKLER PROTECTION THROUGHOUT THE BUILDING, INCLUDE AN ADDITIONAL 20 SPRINKLERS INCLUDING ANY NECESSARY PIPING, FITTINGS AND HANGERS REQUIRED TO INSTALL THE SPRINKLERS. THE PURPOSE OF THE ADDITIONAL SPRINKLERS IS TO PROVIDE ENHANCED SPRINKLER PROTECTION IN ANY EXPOSED OR FINISHED AREA AS MAY BE DEEMED NECESSARY BY THE ARCHITECT OR ENGINEER BASED ON FIELD CONDITIONS. SPRINKLERS REQUIRED BELOW DUCTS AND OBSTRUCTIONS ARE NOT INCLUDED IN THE ADDITIONAL 20 SPRINKLERS AS THEY ARE INCLUDED IN THOSE SPRINKLERS REQUIRED TO PROVIDE COMPLETE SPRINKLER PROTECTION THROUGHOUT THE BUILDING.**

FIRE PROTECTION SYMBOLS

SYMBOL	DESCRIPTION
●	NEW CONCEALED PENDENT SPRINKLER HEAD
○	NEW EXPOSED UPRIGHT SPRINKLER HEAD
$○_A$	NEW EXPOSED UPRIGHT SPRINKLER HEAD ABOVE GRATE CEILING
$○_B$	NEW EXPOSED UPRIGHT SPRINKLER HEAD BELOW DUCT
⊛	NEW EXPOSED PENDENT SPRINKLER HEAD IN GRATE CEILING
▷	NEW DRY RECESSED SIDEWALL SPRINKLER HEAD
$●_{DP}$	NEW DRY CONCEALED PENDENT SPRINKLER HEAD
$○_{BS}$	NEW EXPOSED UPRIGHT SPRINKLER HEAD BELOW STAIRS
———	NEW SPRINKLER PIPING
- - - -	NEW GALVANIZED DRAIN PIPING
— — — —	UNDERGROUND FP SUPPLY PIPING
▬●▬	SPRINKLER ZONE BOUNDARY LINE
— — — —	UNDERGROUND MUNICIPAL WATER MAIN PIPING
——►	DIRECTIONAL FLOW ARROW
——○	ELBOW UP OR DOWN
——○	BOTTOM TAP
——○	TOP TAP
——⋈	CONTROL VALVE (W/ TAMPER SWITCH)
——◁	CHECK VALVE
——◪	CONNECT TO EXISTING
AB	ABOVE AND BELOW
ABD	AUTOMATIC BALL DRIP
AFF	ABOVE FINISHED FLOOR
AUX	AUXILIARY
CSS	COMBINATION SPRINKLER STANDPIPE
DN	DOWN
ELEV	ELEVATOR
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FS	FLOW SWITCH
FP	FIRE PROTECTION
N/C	NORMALLY CLOSED
NIC	NOT IN CONTRACT
SCA	SPRINKLER CONTROL ASSEMBLY
SPK	SPRINKLER
STP	FIRE STANDPIPE
ETR	EXISTING TO REMAIN
TS	TAMPER SWITCH
UG	UNDERGROUND

SEISMIC DESIGN REQUIREMENTS:

THE SEISMIC DESIGN CATEGORY (SDC) FOR THIS PROJECT IS "B" (REFER TO STRUCTURAL DRAWING S1.01). THEREFORE SEISMIC BRACING IS NOT REQUIRED FOR THE FIRE PROTECTION PIPING. (BASED ON THE CRITERIA OF REFERENCE STANDARD ASCE 7-2016, SECTION 13.1.4, SEISMIC RESTRAINT IS NOT REQUIRED FOR MECHANICAL [INCLUDING FP PIPING] AND ELECTRICAL COMPONENTS IN SDC B)

DESIGN CRITERIA

WATER SUPPLY INFORMATION:

DATE:	05-09-2022
STATIC:	44 PSI
RESIDUAL:	32 PSI @ 839 GPM
GAUGED HYDRANT:	HYDRANT #1418 IN CEMETERY ON SOUTH SIDE OF MONTIFORD POINT ROAD (NEAR INTERSECTION WITH ROUTE 24) (REFER TO SITE PLAN)
FLOWING HYDRANT:	HYDRANT #1419
SOURCE:	JACKSONVILLE WATER CO.

CONTRACTOR SHALL OBTAIN NEW WATERFLOW DATA PRIOR TO SHOP DRAWING SUBMITTAL, AND SUBMIT RESULTS WITH INITIAL SHOP DRAWING SUBMITTAL

1. CALCULATIONS SHALL INCLUDE A MINIMUM 10 PSI DESIGN MARGIN BETWEEN THE REQUIRED PRESSURE AND THE AVAILABLE WATER SUPPLY PRESSURE AT THE REQUIRED FLOW. CALCULATED FRICTION LOSSES (PF) SHALL NOT EXCEED .30 PSI/FOOT.
2. AREA OF SPRINKLER OPERATION SELECTED FOR HYDRAULIC CALCULATION SHALL BE THE MOST DEMANDING, A MINIMUM OF 1500 FT² AND CAN NOT INCLUDE ANY UNSPRINKLERED AREAS. ALL SPRINKLERS IN REMOTE AREA MUST OPERATE INCLUDING "SMALL ROOMS AND CLOSETS".
3. REDUCTIONS TO THE MINIMUM SQUARE FOOTAGE IN NOT PERMITTED. REDUCTION OF REMOTE AREA (AS NOTED IN QUICK RESPONSE SPRINKLERS EXCEPTION IN NFPA 13) IS NOT PERMITTED.
4. FOR EACH CALCULATION, THE TOTAL SPRINKLER DEMAND SHALL BE BROUGHT BACK THROUGH THE BOOSTER PUMP, TO THE MUNICIPAL WATER MAIN CONNECTION.
5. RESULTS OF EACH CALCULATION SHALL BE PLOTTED ON N°1.85 GRAPH, ALONG WITH WATER FLOW TEST INFORMATION. HYDRAULIC SUMMARY DATA SHALL BE INCLUDED ON SHOP DRAWINGS, INCLUDING REQUIRED PRESSURE AND FLOW, AND AVAILABLE PRESSURE AT REQUIRED FLOW.
6. USE OF LINE SPACING OFF WALL IN EXCESS OF 7'-6", AS PERMITTED BY THE EXCEPTIONS IN NFPA 13 IS NOT PERMITTED.
7. ALL SPRINKLERS SHALL BE QUICK RESPONSE UNLESS NOTED OTHERWISE.

SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED BASED ON THE FOLLOWING CRITERIA:

HAZARD CLASS	DESCRIPTION	HYDRAULIC DESIGN DENSITY**	MAX. SPACING PER SPRINKLER	HOSE ALLOWANCE	
LIGHT	GALLERIES, CORRIDORS, GREAT HALL, OFFICES, BATHROOMS, VESTIBULES, ETC.	0.10 GPM/FT² OVER THE MOST REMOTE *1500 FT²	225 FT²	250 GPM	WET
ORDINARY GROUP I	MECHANICAL ROOMS, ELECTRICAL ROOMS, GIFT SHOP, WARMING KITCHEN, ETC.	0.20 GPM/FT² OVER THE MOST REMOTE *2500 FT²	130 FT²	250 GPM	WET
ORDINARY GROUP II	STORAGE, ETC.	0.20 GPM/FT² OVER THE MOST REMOTE *2500 FT²	130 FT²	250 GPM	WET
ORDINARY GROUP II	COLLECTIONS STORAGE	0.20 GPM/FT² OVER THE MOST REMOTE *3500 FT²	100 FT²	250 GPM	PREACTION

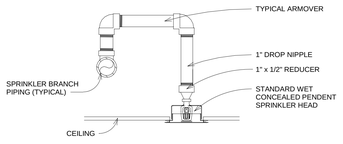
* NOTE: INCREASE REMOTE AREAS BY 30% FOR AREAS PROTECTED BY PREACTION SYSTEMS AND ANY AREAS WITH SLOPED CEILINGS.
** PER UFC-3-600-01 TABLE 9-3.

SEQUENCE OF OPERATION:

1. ACTIVATION OF A TAMPER OR LOW AIR SWITCH SHALL RESULT AS A "TROUBLE" INDICATION AT THE FIRE ALARM CONTROL PANEL AND THE FIRE ALARM ANNUNCIATOR PANEL. ACTIVATION OF A VANE OR PRESSURE TYPE FLOW SWITCH SHALL RESULT AS AN "ALARM" INDICATION AT THE FIRE ALARM CONTROL PANEL AND THE FIRE ALARM ANNUNCIATOR PANEL.
2. INTERIOR AND EXTERIOR ALARM BELLS SHALL SOUND UPON AN "ALARM" INDICATION AT THE FIRE ALARM CONTROL PANEL AND THE FIRE ALARM ANNUNCIATOR PANEL.

SHOP DRAWINGS:

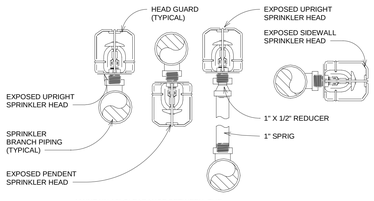
1. PROVIDE DIMENSIONAL INSTALLATION PIPING LAYOUT(S) COORDINATED WITH ALL TRADES. INCLUDE ALL SPRINKLERS, PIPING, PIPE SIZES, PIPE ELEVATIONS, FITTINGS, DRAINS AND AUXILIARY DRAINS, HANGER TYPES AND LOCATIONS, VALVES WITH IDENTIFICATION NUMBERS, ALARM EQUIPMENT, AND ALL OTHER NECESSARY INFORMATION REQUIRED FOR A COMPLETE SHOP DRAWING. EACH DRAWING SHALL ACCURATELY LIST THE SIZE, TYPE AND SCHEDULE OF ALL PIPE AND FITTINGS USED ON THE PROJECT. INCLUDE ANY NOTED OR REQUESTED DETAILS AND SECTIONS THAT ARE REQUIRED TO CLARIFY PIPING LAYOUT AND INSTALLATION INTENT.
2. SUBMITTED SHOP DRAWINGS SHALL BE CLEAR AND LEGIBLE. MINIMUM SCALE SHALL BE 3/16"=1'-0". MINIMUM TEXT SIZE SHALL BE 1/8". ALL SPRINKLER INFORMATION MUST STANDOUT ON THE SHOP DRAWINGS (I.E., BOLD PIPING, ETC. ON LIGHTER BACKGROUND). REVERSE READING DRAWINGS ARE NOT ACCEPTABLE. DO NOT DRAW PIPING INTERSECTING WITH OTHER PIPING THAT DOES NOT ACTUALLY CONNECT. POOR QUALITY PRINTINGS, REVERSE READING DRAWINGS AND DRAWINGS WITH EXCESSIVE UNNECESSARY INFORMATION (I.E., FIELD FABRICATION NOTES, ETC.) WILL NOT BE REVIEWED AND WILL BE RETURNED FOR RESUBMISSION.
3. WITH INITIAL SHOP DRAWING SUBMITTAL, INCLUDE A COMPLETE, SCHEMATIC TYPE, RISER DIAGRAM INDICATING ALL SYSTEM COMPONENTS, HYDRAULIC REFERENCE POINTS, AND ELEVATIONS AT EACH FLOOR. DIAGRAM SHALL INCLUDE ALL INFORMATION FROM THE MUNICIPAL WATER MAIN CONNECTION UP TO AND INCLUDING THE MECHANICAL PENTHOUSE LEVEL.



NOTES:
1. SUPPOST ARMOVER IN ACCORDANCE WITH NFPA 13 WITH DUE CONSIDERATION OF ARMOVER PIPE SIZE AND MAXIMUM EXPECTED PRESSURE.
2. MAINTAIN 18" CLEARANCE BETWEEN THE DEFLECTOR AND THE TOP OF STORAGE.

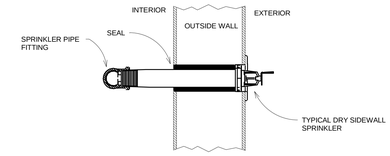
1 F0.01 TYPICAL CONCEALED PENDENT SPRINKLER HEAD

NOT TO SCALE



2 F0.01 EXPOSED SPRINKLERS WTH HEAD GUARDS

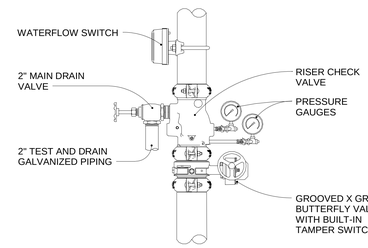
NOT TO SCALE



NOTES:
- LOCATE SPRINKLER 4"-6" BELOW CEILING OR AS OTHERWISE PERMITTED BY THE SPRINKLERS LISTING OR APPROVAL.
- PROPERLY SEAL SPRINKLER PENETRATION AGAINST AIR INFILTRATION AS REQUIRED BY NFPA 13 TO ENSURE ADEQUATE MEASURES ARE TAKEN AGAINST FREEZING.
- SPRINKLER LENGTH SHALL MEET MANUFACTURER'S RECOMMENDED LENGTH FOR THE APPLICATION.

3 F0.01 TYPICAL DRY RECESSED HORIZONTAL SIDEWALL SPRINKLER

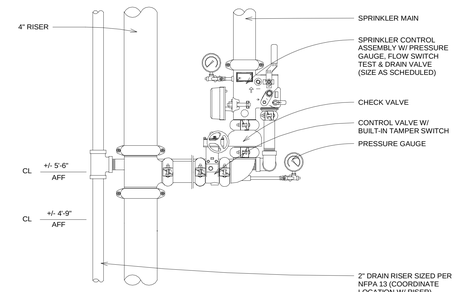
NOT TO SCALE



NOTES:
1. WHEN ASSEMBLY IS INSTALLED IN HORIZONTAL POSITION, ORIENT VALVE SUCH THAT THE 2" MAIN DRAIN VALVE IS LOCATED ON TOP, AND PIPE GAUGES, EACH WITH A MAINTENANCE VALVE, ARE AT READILY ACCESSIBLE LOCATION ABOVE 2" MAIN DRAIN VALVE FOR EASY READING.

4 F0.01 TYPICAL 6" RISER CHECK VALVE ASSEMBLY

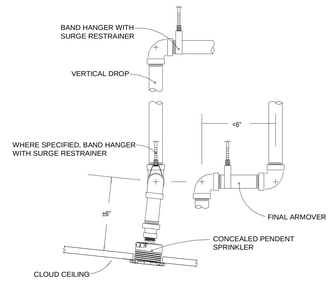
NOT TO SCALE



NOTES:
- COORDINATE ALL PIPING PENETRATIONS W/ STRUCTURAL WORK.
- CABINETS IN RATED WALLS SHALL BE FIRE RATED.

5 F0.01 VERTICAL SPRINKLER CONTROL ASSEMBLY (SCA)

NOT TO SCALE



NOTES:
- VERTICAL DROP SHALL BE LOCATED SUCH THAT DROP IS WITHIN A 6" RADIUS OF FINAL LOCATION. FINAL ARMOVER SHALL BE LOCATED APPROXIMATELY 6" ABOVE CLOUD STRUCTURE.
- PROVIDE BAND HANGER WITH SURGE RESTRAINER AT DROP ELBOW. HANGER AND SURGE RESTRAINER SHALL BE SIMILAR TO TOLCO FIGS. 2NPA AND 25. FOR VERTICAL DROPS GREATER THAN 4' PROVIDE ADDITIONAL BAND HANGER WITH SURGE RESTRAINER ON FINAL ARMOVER.
- VERTICAL DROPS GREATER THAN 4' SHALL BE STIFFENED WITH 3/32" DIAMETER STAINLESS STEEL AIRCRAFT CABLE (19 STRAND).

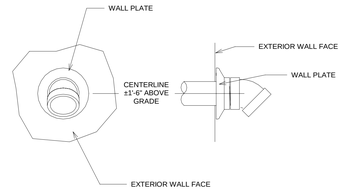
6 F0.01 TYPICAL CONCEALED PENDENT SPRINKLER WITH ARMOVER AT GREAT HALL

NOT TO SCALE



7 F0.01 TYPICAL CEILING TILE/ SPRINKLER HEAD LOCATIONS

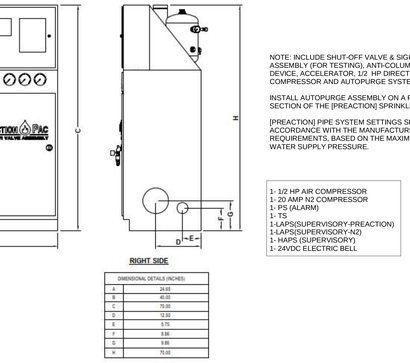
NOT TO SCALE



NOTES:
- PIPING, 45° ELBOW FITTING AND WALL PLATE EXPOSED AT EXTERIOR OF WALL SHALL BE CHROME PLATED.

8 F0.01 2" MAIN TEST/DRAIN OUTLET AT EXTERIOR FACE

NOT TO SCALE



DIMENSIONAL DETAILS (INCHES)	
A	24.00
B	40.00
C	70.00
D	12.00
E	5.75
F	8.86
G	5.86
H	70.00

NOTE: INCLUDE SHUT-OFF VALVE & SIGHT GLASS ASSEMBLY (FOR TESTING), ANTI-COLUMN DEVICE, ACCELERATOR, 1/2 HP DIRECT AIR COMPRESSOR AND AUTOPURGE SYSTEM.

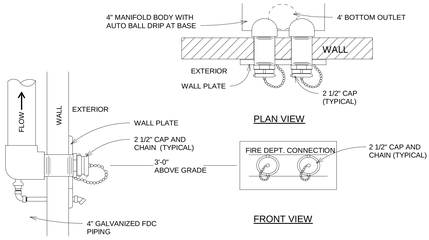
INSTALL AUTOPURGE ASSEMBLY ON A REMOTE SECTION OF THE [PREACTION] SPRINKLER PIPING.

[PREACTION] PIPE SYSTEM SETTINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, BASED ON THE MAXIMUM WATER SUPPLY PRESSURE.

1- 1/2 HP AIR COMPRESSOR
1- 20 AMP N2 COMPRESSOR
1- PS (ALARM)
1- TS
1-LAPS(SUPERVISORY-PREACTION)
1-LAPS(SUPERVISORY-N2)
1- HAPS (SUPERVISORY)
1- 24VDC ELECTRIC BELL

9 F0.01 3" PREACTION-PAC CABINET WITH INTEGRATED NITROGEN

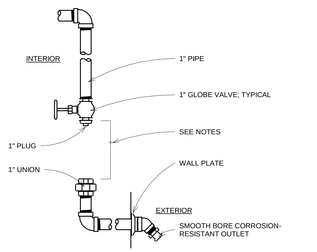
NOT TO SCALE



SECTION

10 F0.01 2-WAY FLUSH MOUNT FIRE DEPARTMENT CONNECTION

NOT TO SCALE



NOTES:
- PROVIDE PIPE FOR TEMPORARY CONNECTION BETWEEN GLOBE VALVE AND UNION FOR USE DURING PERIODIC DRY VALVE TRIP TEST. PIPE SHALL BE LABELED AND STORED IN SPARE SPRINKLER CABINET.
- PIPING, 45 DEGREE ELBOW FITTING AND WALL PLATE EXPOSED AT EXTERIOR OF BUILING SHALL BE CHROME PLATED.
- SMOOTH BORE CORROSION-RESISTANT OUTLET MAY BE FABRICATED FROM AN UPRIGHT/PENDENT SPRINKLER THAT EMPLOYS AN ORICE SIZE EQUAL TO THE SMALLEST ORIFICE SPRINKLER USED IN THE SYSTEM. WHEN CUTTING SPRINKLER FRAME, GRIND DOWN SHARP EDGES.
- COORDINATE LOCATION OF TEST CONNECTION OUTLET AND VAVLE WITH ARCHITECT AND LOCATION OF ACCESS PANEL.

11 F0.01 TYPICAL PREACTION SPRINKLER SYSTEM TEST CONNECTION

NOT TO SCALE

FIRE PROTECTION DRAWING INDEX		
SHEET NUMBER	SHEET NAME	NEW SPKS
F0.01	FIRE PROTECTION NOTES & DETAILS	±MISC 20
F0.02	FIRE PROTECTION DETAILS, SITE PLAN & RISER DIAGRAM	
F2.01	FIRE PROTECTION 1ST FLOOR PLAN	±203
F2.02	FIRE PROTECTION 2ND FLOOR & LOW ROOF PLAN	±210
F3.00	FIRE PROTECTION FIRE PUMP ROOM	
F3.01	FIRE PROTECTION SECTIONS	
	TOTAL	±433

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FIRE PROTECTION NOTES & DETAILS

F0.01

ISSUE DATE: 07 - 31 - 2023
PROJECT NUMBER: 2246
DRAWN BY: JS
CHECKED BY: Checker

SPRINKLER SCHEDULE

LEGEND	TYPE/FINISH	AREA	TEMP. RATING	APPROVAL	MANUF./ MODEL	K FACTOR
●	CONCEALED PENDENT SPRINKLER	HUNG CEILING AREAS	155°F**	UL/FM	VIKING CORP. SIN VK462	5.6
○	EXPOSED UPRIGHT SPRINKLER	EXPOSED AREAS	155°F**	UL/FM	VIKING CORP. SIN VK300	5.6/8.0
◢	DRY SIDEWALL SPRINKLER	EXTERIOR OVERHANG	155°F**	UL/FM	VIKING CORP. SIN VK481	5.6
●DP	DRY CONCEALED PENDENT SPRINKLER	COLLECTION STORAGE	155°F**	UL/FM	GLOBE GL5634	8.0

NOTES:
** OR AS OTHERWISE REQUIRED BY NFPA 13 AND THE TEMPERATURE RATINGS CHART

FIRE PROTECTION RISER SCHEDULE

RISER #	VALVE #	TYPE	SIZE	LOCATION
1	13	SPK	4"	BOILER ROOM 127

FIRE PROTECTION ZONE SCHEDULE

ZONE #	VALVE #	RISER #	TYPE	MAIN SIZE	AREA PROTECTED
1	13	-	WET	4"	GALLERIES, RESTROOMS, VESTIBULES, ETC
2	14	-	PREACTION	3"	COLLECTION STORAGE

FIRE PROTECTION ALARM BELL SCHEDULE

ZONE #	LOCATION	OPERATION
1	EXTERIOR	UPON ANY FLOW ALARM
2	PUMP ROOM	UPON ANY FLOW ALARM
3	PUMP ROOM	UPON FLOW OF PREACTION VALVE

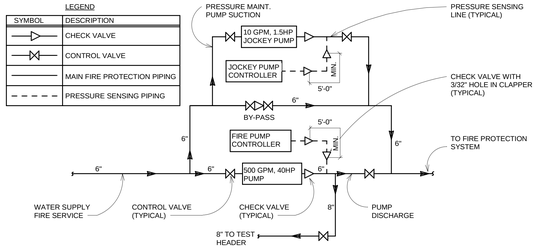
FIRE PUMP SCHEDULE

UNIT #	LOCATION	SYSTEM SERVED	FLUID	GPM	PSI	ELECTRICAL HP	VOLTS	PH	RPM	TYPE	MAKE/MODEL	REMARKS
FP1	FIRE PUMP 126	FIRE PROTECTION	WATER	500	85	40	480	3	3526	HORIZONTAL SPLIT-CASE	PEERLESS AAEF10G	FIRE, SPRINKLER BOOSTER PUMP
FP2	FIRE PUMP 126	FIRE PROTECTION	WATER	10	85	1.5	208	3	3500	VERTICAL IN-LINE	GRUNDFOS CR3-7	PRESSURE MAINTENENCE PUMP ASSEMBLY

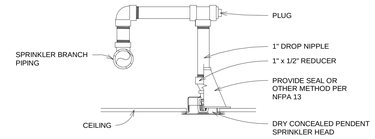
FIRE PROTECTION VALVE SCHEDULE

VALVE #	SIZE	FUNCTION	LOCATION	ALARM
1	6"	WATER SUPPLY CONTROL	INCOMING MECHANICAL SERVICES	
2	6"	BACKFLOW PREVENTER INLET	YARD	TS
3	6"	BACKFLOW PREVENTER OUTLET	YARD	TS
4	6"	WATER SUPPLY CONTROL	FIRE PUMP ROOM	TS
5	6"	FIRE PUMP INLET GATE VALVE	FIRE PUMP ROOM	TS
6	6"	FIRE PUMP OUTLET BUTTERFLY VALVE	FIRE PUMP ROOM	TS
7	1 1/2"	PRESSURE MAINTENANCE PUMP INLET	FIRE PUMP ROOM	TS
8	1 1/2"	PRESSURE MAINTENANCE PUMP OUTLET	FIRE PUMP ROOM	TS
9	6"	FIRE PUMP BY-PASS INLET	FIRE PUMP ROOM	TS
10	6"	FIRE PUMP BY-PASS OUTLET	FIRE PUMP ROOM	TS
11	6"	RISER CHECK VALVE CONTROL	FIRE PUMP ROOM	FS, TS
12	6"	FIRE PUMP TEST HEADER CONTROL	FIRE PUMP ROOM	TS
13	4"	ZONE 1 SPRINKLER CONTROL	FIRE PUMP ROOM	FS, TS
14	3"	PRE-ACTION VALVE CONTROL	FIRE PUMP ROOM	FS, TS, HAPS, LAPS
15	6"	FIRE PUMP OUTLET CHECK VALVE	FIRE PUMP ROOM	
16	6"	FDC CHECK VALVE	FIRE PUMP ROOM	

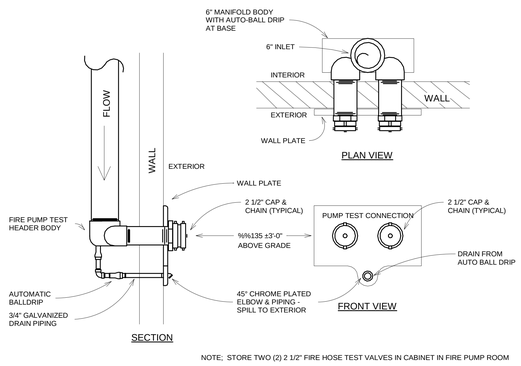
NOTES:
CONTRACTOR SHALL COMPLETE RISER, SPRINKLER ZONE AND VALVE SCHEDULES, AND INCLUDE WITH A COMPLETE RISER DIAGRAM ON SHOP DRAWINGS.



2 F0.02 FIRE PUMP SCHEMATIC
NOT TO SCALE

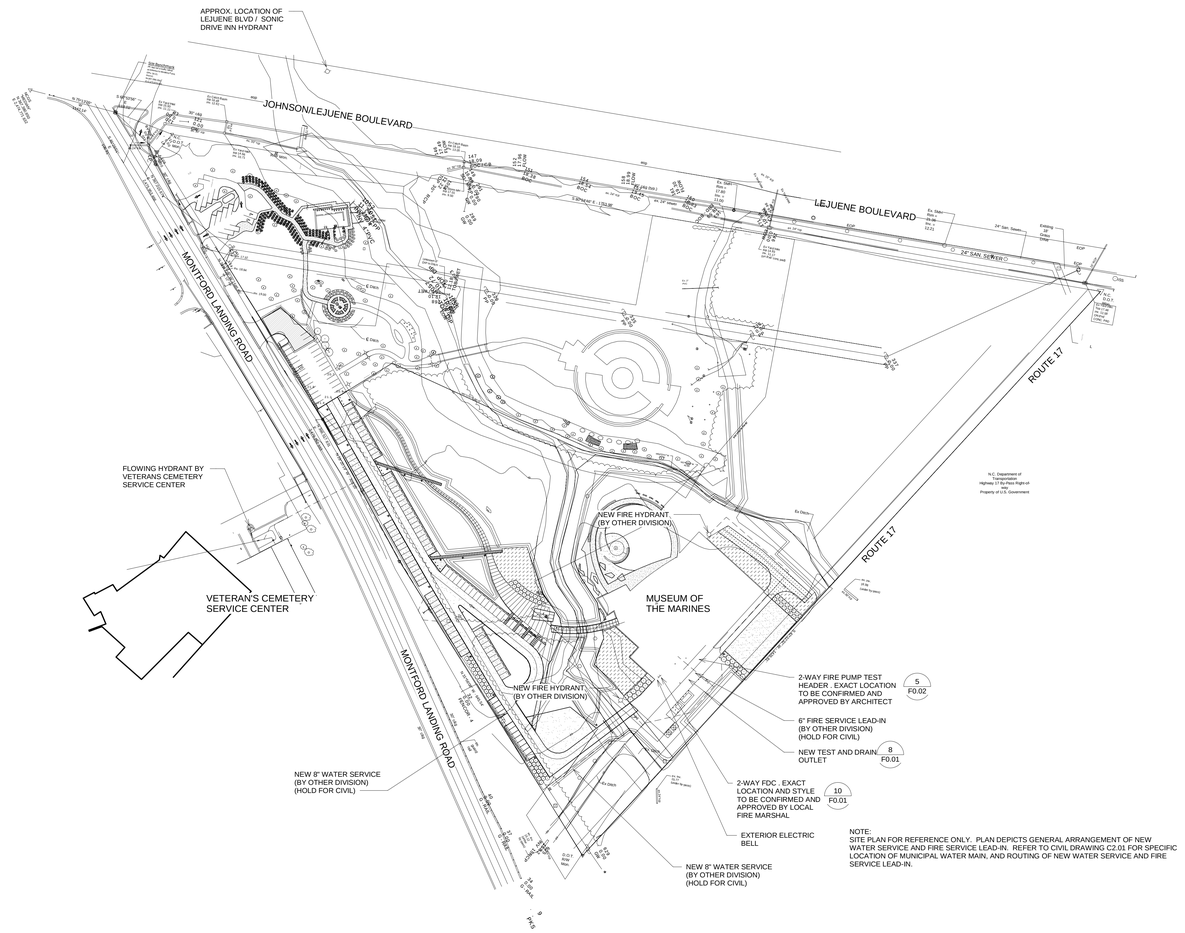


3 F0.02 TYPICAL DRY CONCEALED PENDENT SPRINKLER HEAD
NTS



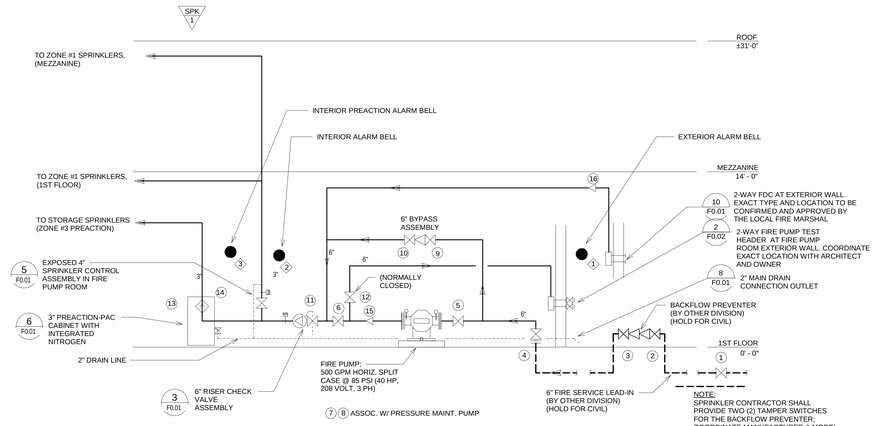
NOTE; STORE TWO (2) 2 1/2" FIRE HOSE TEST VALVES IN CABINET IN FIRE PUMP ROOM

5 F0.02 2-WAY FIRE PUMP TEST HEADER ASSEMBLY
NOT TO SCALE



NOTE:
SITE PLAN FOR REFERENCE ONLY. PLAN DEPICTS GENERAL ARRANGEMENT OF NEW WATER SERVICE AND FIRE SERVICE LEAD-IN. REFER TO CIVIL DRAWING C2.01 FOR SPECIFIC LOCATION OF MUNICIPAL WATER MAIN, AND ROUTING OF NEW WATER SERVICE AND FIRE SERVICE LEAD-IN.

1 F0.02 SITE PLAN (HOLD FOR CIVIL)
1" = 100' - 0"



4 F0.02 RISER DIAGRAM
NOT TO SCALE

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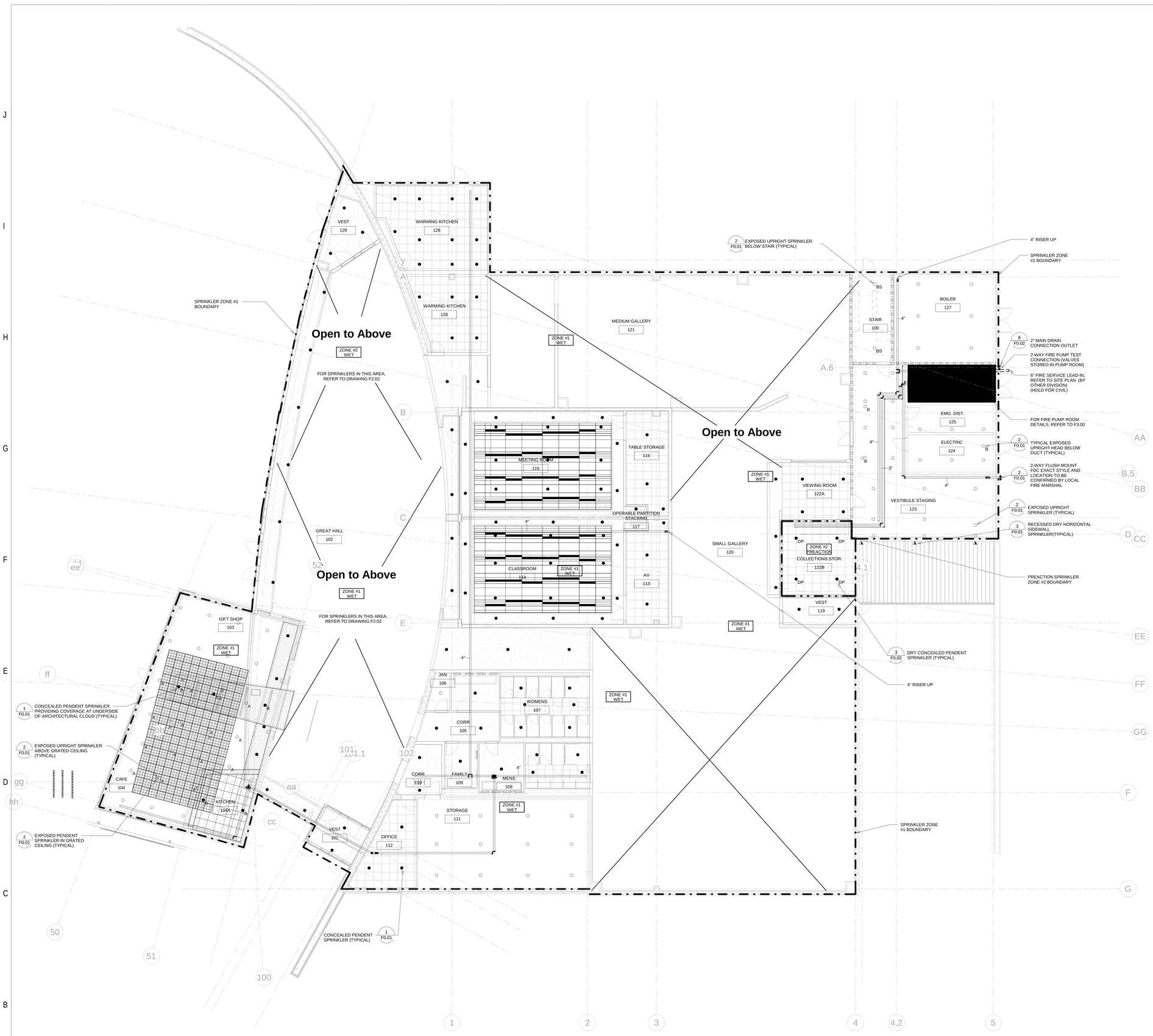
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FIRE PROTECTION DETAILS, SITE PLAN & RISER DIAGRAM

F0.02

PLAN NORTH

ISSUE DATE: 07 -31-2023
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2 0, 1st FLOOR
1/8" = 1'-0"

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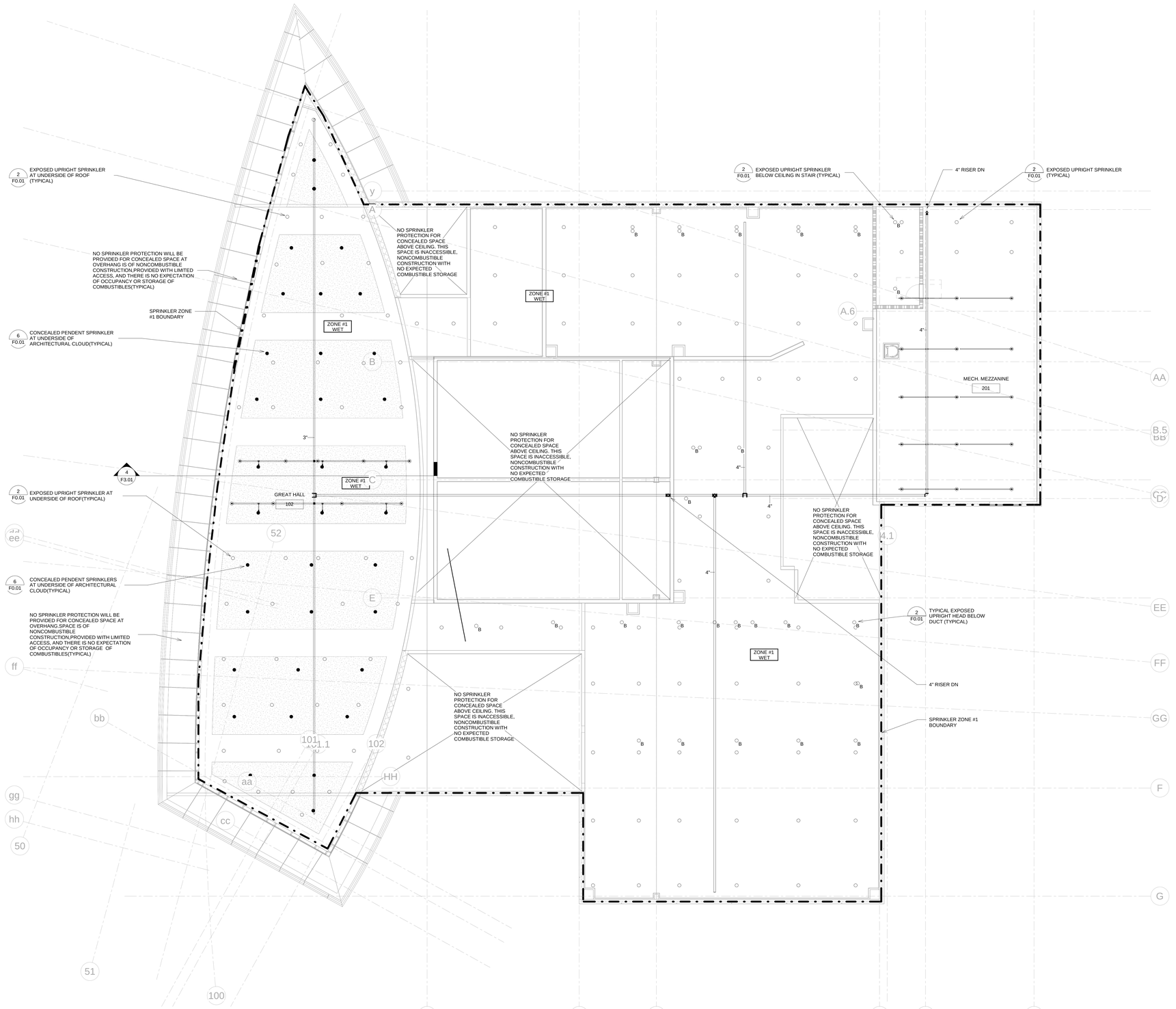
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FIRE PROTECTION 1ST FLOOR PLAN

F2.01

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1 1. MEZZANINE
1/8" = 1'-0"

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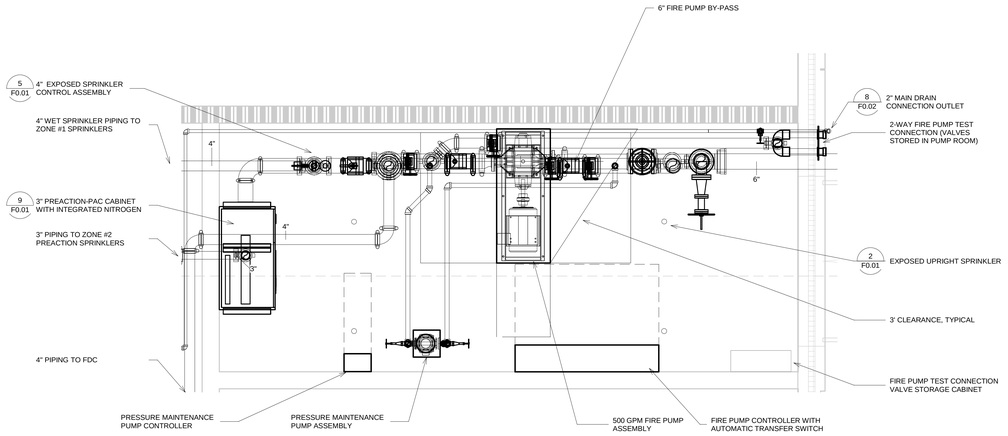
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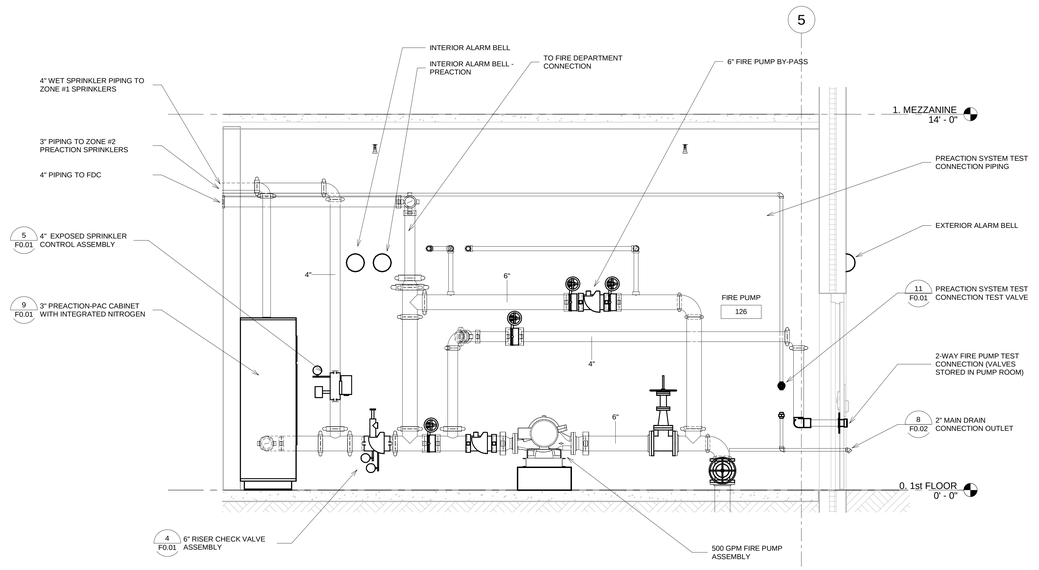
FIRE PROTECTION 2ND FLOOR & LOW ROOF PLAN

F2.02

ISSUE DATE: 07 -31-2023
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1 Fire Pump Room
1/2" = 1'-0"



2 Fire Pump Room Looking North
1/2" = 1'-0"

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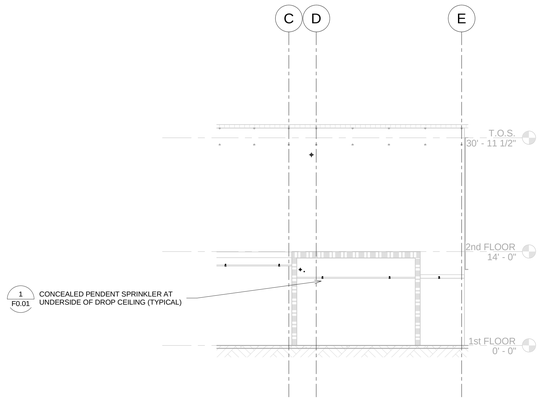
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FIRE PROTECTION FIRE PUMP ROOM

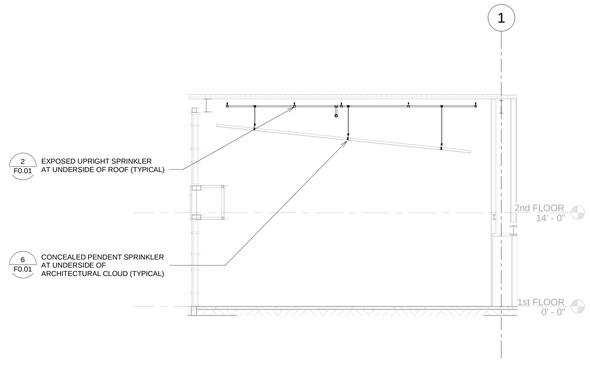
F3.00

PLAN NORTH

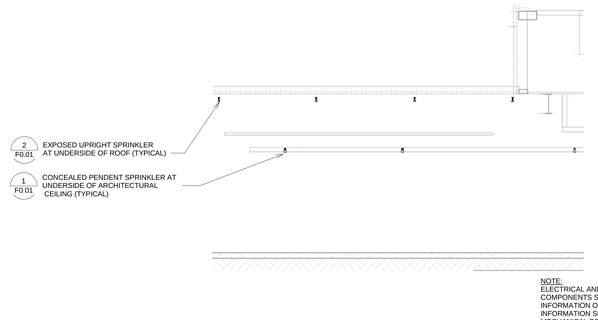
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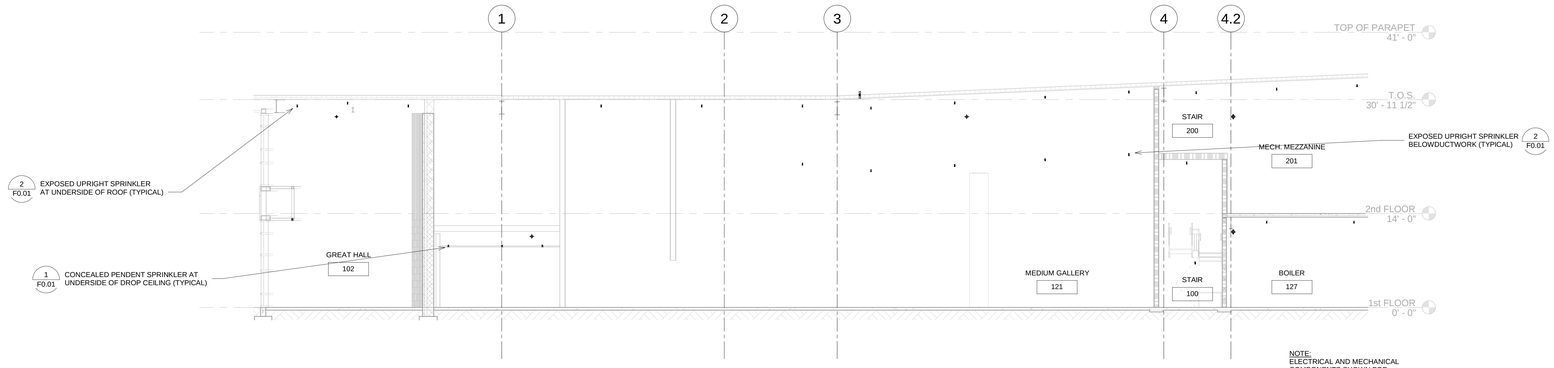
1 Collection Storage Looking East
1/8" = 1'-0"



4 Great Hall looking Northeast
1/8" = 1'-0"



5 Store looking Northeast
1/4" = 1'-0"



3 Galleries looking Northeast
1/8" = 1'-0"

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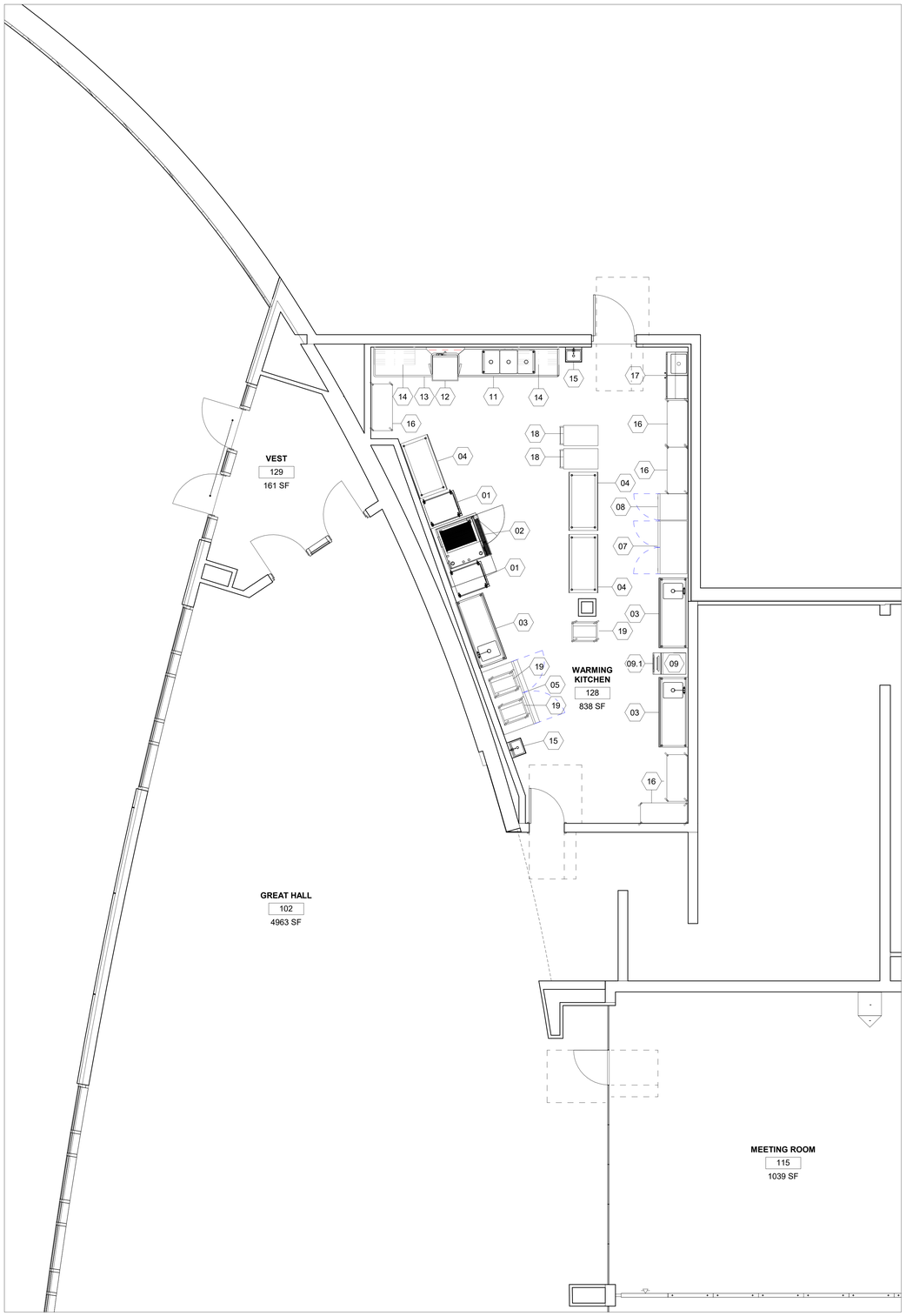
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FIRE PROTECTION SECTIONS

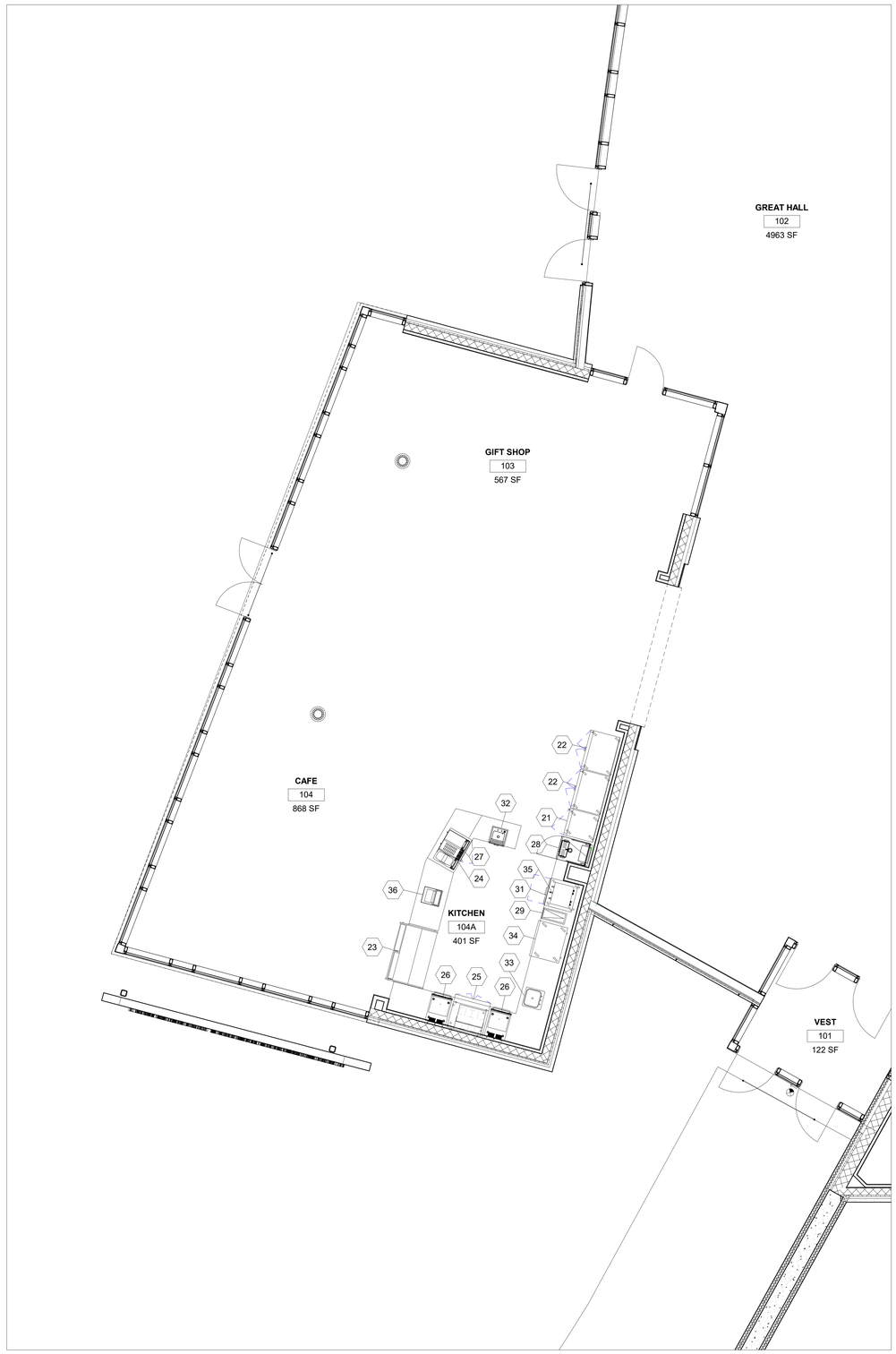
F3.01

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PLAN NORTH



1 FS.01 WARMING KITCHEN EQUIPMENT PLAN
1/4" = 1'-0"



2 FS.01 CAFE EQUIPMENT PLAN
1/4" = 1'-0"

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FOODSERVICE EQUIPMENT PLAN

FS.01

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
CHECKED BY: Checker

PLAN NORTH

FOODSERVICE EQUIPMENT SCHEDULE

QTY	ITEM	DESCRIPTION	MANUFACTURER	MODEL	ITEM	ELECTRICAL							PLUMBING					REMARKS
						ELECTRICAL A.F.F.	KW	HP	AMPS	VOLTS	PHASE	NEMA	HW SIZE	HW/A.F.F.	CW SIZE	CW/A.F.F.	DRAIN TYPE	
2	01	MOBILE HEATING CABINET	METRO	C539-HDC-4	01	24"			16.7	120	1	5-20P						CASTERS
1	02	COMBI OVEN, ELECTRIC	ALTO-SHAAM	7-20E PRO	02	50"	B: 40		45.7	208	3	DIRECT			3/4"	14"	F.S.	B: VENTECH TYPE 1 HOOD WITH CONDENSATION, EQUIPMENT STAND, WATER FILTER
3	03	WORK TABLE W/ PREP SINK	JOHN BOOS	EPT6R5-3072SSK-L	03								1/2"	14"	1/2"	14"	F.S.	LEVER WASTE, FAUCET, WELD-IN SINK
3	04	WORK TABLE	JOHN BOOS	ST6-3060SSK	04													CASTERS
1	05	ROLL-IN REFRIGERATOR	HOSHIZAKI	RN2A-FS	05	24"			8.2	120	1	5-15P						
1	06	NOT USED	-	-	06													
1	07	REFRIGERATOR, REACH-IN	HOSHIZAKI	ER2A-FS	07	50"			4.3	120	1	5-15P						CASTERS
1	08	FREEZER, REACH-IN	HOSHIZAKI	EF1A-FS	08	50"			3.2	120	1	5-15P						CASTERS
1	09	ICE MAKER, CUBE-STYLE	MANITOWOC ICE	IYT0620A-161	09	68"			14.4	120	1	DIRECT			3/8"	64"	F.S.	WATER FILTER, BACKFLOW PREVENTION DEVICE
1	09.1	ICE BIN	MANITOWOC ICE	D-420	09.1												F.S.	
1	10	NOT USED	-	-	10													
1	11	DISHTABLE, W/ POTSINKS	JOHN BOOS	DT3B18244-2D24R	11								1/2"	14"	1/2"	14"	F.S.	PRE-RINSE W/ADD ON FAUCET, LEVER WASTE
1	12	DOOR TYPE DISHWASHER, VENTLESS	CHAMPION	DH6000T-VHR	12	24"			46.0	208	3	DIRECT	3/4"	14"	3/4"	14"	F.S.	SINGLE POINT CONN., DRAIN WATER TEMP KIT
1	13	CLEAN STRAIGHT DISHTABLE	JOHN BOOS	CDT6-S60SBK-L	13													
2	14	DISHTABLE SORTING SHELF	JOHN BOOS	BHS1842-TS	14													MOUNT 5'-4" A.F.F.
2	15	HAND SINK, WALL MOUNT	JOHN BOOS	PBHS-1410-EE	15								1/2"	14"	1/2"	14"	1 1/2"	SIDE SPLASH WHERE REQUIRED, FAUCET
5	16	WIRE SHELVING UNIT	QUANTUM	WR74-2148P	16													CASTERS, BUMPERS
1	17	MOP SINK CABINET	JOHN BOOS	PBJC-224884-L	17								1/2"	14"	1/2"	14"	3 1/2"	HOSE BIB
2	18	BUSSING UTILITY TRANSPORT CART, METAL	CHANNEL MANUFACTURING	US2135-3	18													CASTERS
3	19	UNIVERSAL PAN RACK	CHANNEL MANUFACTURING	UTR-18	19													CASTERS
1	20	NOT USED	-	-	20													
1	21	REACH-IN HEATED CABINET	TRUE	TH-23G~FGD01	21	50"			7.8	120	1	5-15P						CASTERS
2	22	REACH-IN REFRIGERATOR	TRUE	T-35G-HC~FGD01	22	50"		1/3	5.6	120	1	5-15P						CASTERS
1	23	DISPLAY CASE, REFRIGERATED/NON-REFRIGERATED	TRUE	TGM-DZ-59-SC/SC-B-W	23	CTR		1/4	10.0	120	1	5-15P						
1	24	ESPRESSO MACHINE	EVERSYS	E4-M-X-WIDE-Tempest	24	CTR			30.0	208	2	L60-30P	3/8"	14"	3/8"	14"	F.S.	WATER FILTER, BACKFLOW PREVENTION DEVICE
1	25	MEGA-TOP SANDWICH/SALAD PREP REFRIGERANT	TRUE	TSSU-36-12M-B-HC	25	24"		1/4	4.5	120	1	5-15P						CASTERS
2	26	RAPID COOK OVEN	PRATICA	ROCKET EXPRESS	26	50"			30.0	208	1	6-30P						
1	27	UNDERCOUNTER REFRIGERATOR	TRUE	TUC-24-HC	27	CTR		1/6	2.0	120	1	5-15P						CASTERS
1	28	DRAFT BEER COOLER	TRUE	TDD-1-S-HC	28	24"			3.9	120	1	5-15P						CASTERS, DRAFT TOWER
1	29	ICE BIN, MOBILE	BK RESOURCES	BK-MIB-2411	29												F.S.	CASTERS, SLIDING LID
1	30	NOT USED	-	-	30													
1	31	REACH-IN UNDERCOUNTER FREEZER	SILVER KING	SKF27A-EDUS1	31	24"		1/4	2.5	120	1	5-15P						CASTERS
1	32	DROP-IN SINK	JOHN BOOS	PB-DISINK091106-STD	32								1/2"	14"	1/2"	14"	F.S.	FAUCET, LEVER WASTE, SIDE SPLASH
1	33	DROP-IN SINK	ADVANCE TABCO	SS-1-1919-12	33								1/2"	14"	1/2"	14"	F.S.	FAUCET, LEVER WASTE
1	34	UNDERCOUNTER REFRIGERATOR	TRUE	TUC-36-HC	34	24"		1/6	2.0	120	1	5-15P						CASTERS
1	35	COFFEE BREWER	BUNN	34600.0001	35	50"			27.5	120	1	C&P			3/8"	14"	F.S.	WATER FILTER, BACKFLOW PREVENTION DEVICE
1	36	P.O.S.	BY OWNER	TOUCH SCREEN REGISTER	36	CTR			15.0	120	1	C&P						F.S.E.C. TO VERIFY UTILITIES WITH OWNER
1	37-40	NOT USED	-	-	37-40													

ELECTRICAL LOADS ARE BASED ON MANUFACTURER'S INFORMATION. MINIMUM CIRCUIT AMPACITY AND OVERCURRENT PROTECTION TO BE DETERMINED BY CODE REQUIREMENTS AND/OR MANUFACTURER'S DIRECTIONS.

140° F. HOT WATER REQUIREMENTS		GPH
POT SINKS	3 @ 30	90
PREP SINKS	3 @ 20	60
CAN WASH	-	10
CLEANING	-	10
	TOTAL	170

110° F. HOT WATER REQUIREMENTS		GPH
MOP SINK	-	5
HAND SINK	3 @ 5	15
	TOTAL	20

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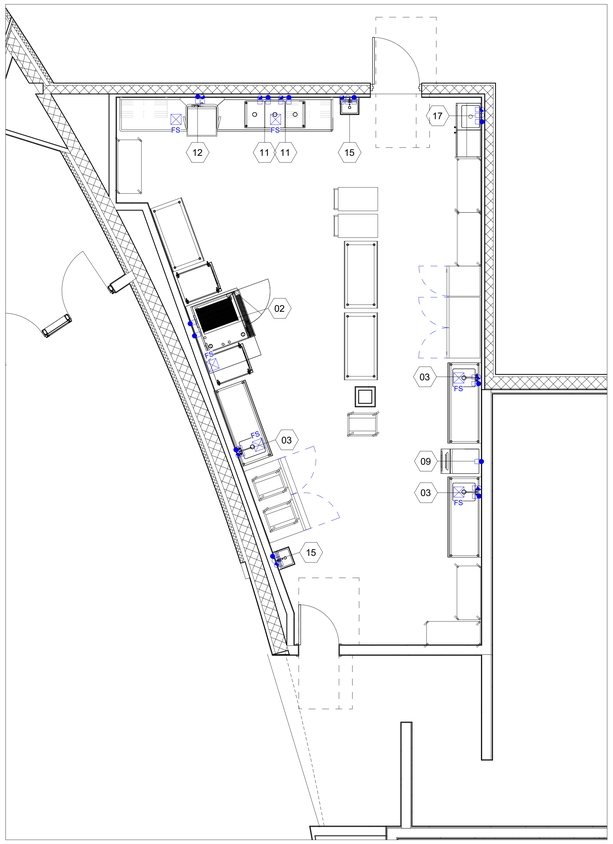
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FOOD SERVICE EQUIPMENT SCHEDULE

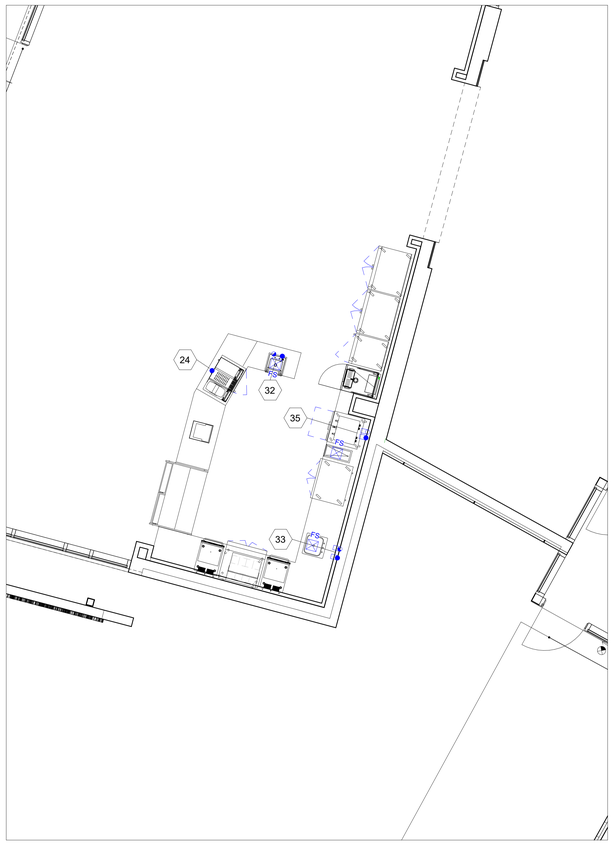
FS.02

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
CHECKED BY: Checker

PLAN NORTH



1 FS.03 WARMING KITCHEN PLUMBING PLAN
1/4" = 1'-0"



2 FS.03 CAFE PLUMBING PLAN
1/4" = 1'-0"

MECHANICAL SYMBOLS	
	HOT WATER (HW)
	COLD WATER (CW)
	WASTE (W)
FD	FLOOR DRAIN
FS	FLOOR SINK - OPEN
FS	FLOOR SINK W/HALF GRATE

NOTES

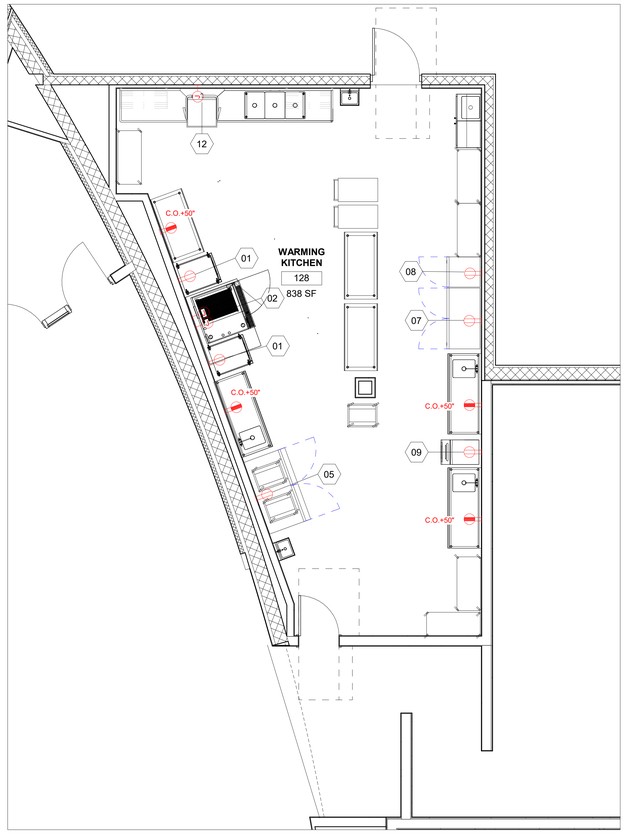
PLUMBING ROUGHING IN NOTES

THIS PLAN IS INTENDED TO SHOW UTILITY REQUIREMENTS AND APPROXIMATE ROUGHING-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGHING-IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

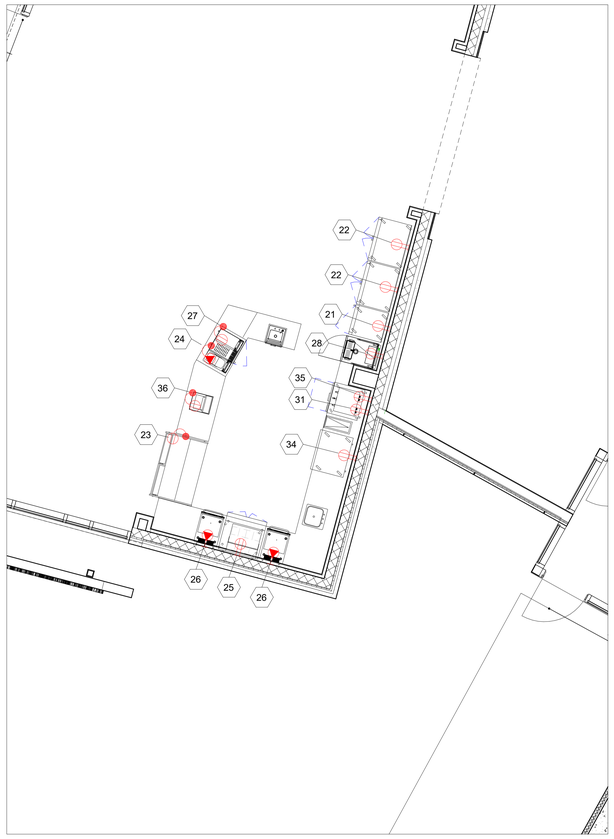
WHERE EXPOSED PIPES AND CONDUITS ARE NECESSARY, THEY SHOULD BE MOUNTED 1 TO 2 INCHES OFF THE WALL AND 6 INCHES OFF THE FLOOR TO ALLOW FOR CLEANING.

PLUMBING NOTES

PLUMBING TRIM SUCH AS FAUCETS AND SINK WASTES SHALL BE FURNISHED WITH EQUIPMENT BY FOOD SERVICE EQUIPMENT CONTRACTOR. PLUMBER TO PROVIDE SERVICE, STOP VALVES, P-TRAPS, ETC., AND MAKE FINAL CONNECTIONS.



3 FS.03 WARMING KITCHEN ELECTRICAL PLAN
1/4" = 1'-0"



4 FS.03 CAFE ELECTRICAL PLAN
1/4" = 1'-0"

ELECTRICAL SYMBOLS	
J	J-BOX, FLUSH IN WALL
J	J-BOX FROM ABOVE
	WATERPROOF CONDUIT STUB
	DUPLEX OUTLET
	CONVENIENCE OUTLET, UNASSIGNED
F	FLOOR MOUNTED OUTLET BY E.C.
	SPECIAL OUTLET TO MATCH EQUIPMENT

NOTES

ELECTRICAL ROUGHING IN NOTES

THIS PLAN IS INTENDED TO SHOW UTILITY REQUIREMENTS AND APPROXIMATE ROUGHING-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGHING IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

WHERE EXPOSED PIPES AND CONDUITS ARE NECESSARY, THEY SHOULD BE MOUNTED 1 TO 2 INCHES OFF THE WALL AND 6 INCHES OFF THE FLOOR TO ALLOW FOR CLEANING.

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FOOD SERVICE ROUGH-IN PLANS

FS.03

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PLANS NORTH

LOW VOLTAGE SYSTEMS

MUSEUM OF THE MARINE

COMMUNITY CORPS CAROLINAS

111 MONTFORD POINT DRIVE, JACKSONVILLE, NC 28540

SUBMITTED ON: AUGUST 01, 2023

DEVICE LEGEND:

▽ DATA OUTLET, MOUNT AT 18" AFF. COORDINATE WITH POWER RECEPTACLE AND ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT. PROVIDE TWO(2) CATEGORY 6/23 AWG/UTP CABLES FROM STATION OUTLET TO CLOSEST TELECOM ROOM AND TERMINATE ON CATEGORY 6 PATCH PANEL. SUPPORT CABLES IN CEILING SPACE WITH J-HOOKS ON 4'-0" TO 5'-0" CENTERS. CABLES TO BE DESIGNATED FOR DATA.
*NOTE: WHEN OUTLET IS PROVIDED WITH "C" SUBSCRIPT, OUTLET IS TO BE INSTALLED ABOVE COUNTER
*NOTE: WHEN OUTLET IS PROVIDED WITH NUMERICAL SUBSCRIPT, OUTLET IS TO BE INSTALLED WITH NOTED QUANTITY OF CABLES.

TV ▽ DATA/TV OUTLET. COORDINATE MOUNTING HEIGHT WITH AUDIO VISUAL DRAWINGS AND ARCHITECTURAL ELEVATIONS. PROVIDE TWO(2) CATEGORY 6/23 AWG/UTP CABLES FROM STATION OUTLET TO CLOSEST TELECOM ROOM AND TERMINATE ON CATEGORY 6 PATCH PANEL. SUPPORT CABLES IN CEILING SPACE WITH J-HOOKS ON 4'-0" TO 5'-0" CENTERS. CABLES TO BE DESIGNATED FOR DATA.

W ▽ WALL PHONE SINGLE DATA WITH WALL PHONE PLATE MOUNTED AT 48" AFF TO CENTERLINE. TELECOM CONTRACTOR TO PROVIDE ONE(1) CATEGORY 6/23 AWG/UTP CABLES FROM WALL OUTLET TO LOCAL TELECOM ROOM AND TERMINATE ON CATEGORY 6 PATCH PANEL. CABLES TO BE DESIGNATED FOR VOICE USE.

▽ CEILING MOUNT DATA OUTLET FOR WIRELESS ACCESS POINT. TELECOM CONTRACTOR TO PROVIDE TWO(2) CATEGORY 6A/23 AWG/UTP CABLES FROM CEILING OUTLET TO CLOSEST TELECOM ROOM AND TERMINATE ON CATEGORY 6A PATCH PANEL. MOUNT OUTLET IN DUAL PORT SURFACE MOUNT BOX ATTACHED TO STRUCTURAL CEILING. CABLES TO BE DESIGNATED FOR DATA. PROVIDE 20' SERVICE LOOP IN CEILING SUPPORTED BY J-HOOKS. IN NON-ACCESSIBLE/OPEN CEILING SPACE TERMINATE IN BACKBOX.

▽ WALL MOUNT WIRELESS ACCESS POINT DATA OUTLET MOUNTED AT 12'-0" AFF. TELECOM CONTRACTOR TO PROVIDE TWO(2) CATEGORY 6A/23 AWG/UTP FROM STATION OUTLET TO CLOSEST TELECOM ROOM AND TERMINATE ON CATEGORY 6A PATCH PANEL. SUPPORT CABLES IN CEILING SPACE WITH J-HOOKS ON 4'-0" TO 5'-0" CENTERS. PROVIDE 20' SERVICE LOOP IN CEILING SUPPORTED BY J-HOOKS.

P ▽ CEILING MOUNT DATA OUTLET FOR PROJECTOR. TELECOM CONTRACTOR TO PROVIDE ONE(1) CATEGORY 6/23 AWG/UTP CABLES FROM PROJECTOR LOCATION TO CLOSEST TELECOM ROOM AND TERMINATE ON CATEGORY 6 PATCH PANEL. MOUNT OUTLET IN SINGLE PORT SURFACE MOUNT BOX ATTACHED TO STRUCTURAL CEILING. CABLES TO BE DESIGNATED FOR AUDIO VISUAL USE. PROVIDE 20' SERVICE LOOP IN CEILING SUPPORTED BY J-HOOKS. IN NON-ACCESSIBLE/OPEN CEILING SPACE TERMINATE IN BACKBOX.

E ▽ CEILING MOUNT DATA OUTLET FOR EXHIBITS. TELECOM CONTRACTOR TO PROVIDE TWO(2) CATEGORY 6/23 AWG/UTP CABLES FROM DATA/TV LOCATION TO CLOSEST TELECOM ROOM AND TERMINATE ON CATEGORY 6 PATCH PANEL. TERMINATE CABLE WITH FIELD TERMINABLE MALE RJ45 PLUG. CABLES TO BE DESIGNATED FOR AUDIO VISUAL USE. PROVIDE 20' SERVICE LOOP IN CEILING SUPPORTED BY J-HOOKS. IN NON-ACCESSIBLE/OPEN CEILING SPACE TERMINATE IN BACKBOX.

CEILING MOUNT DATA OUTLET FOR WIRELESS GATEWAY FOR LOCKING CONTROLS. PROVIDE ONE(1) CATEGORY 6/23 AWG/UTP CABLES FROM CEILING OUTLET TO LOCAL TELECOM ROOM AND TERMINATE ON CATEGORY 6 PATCH PANEL.

▽ DATA OUTLET MOUNTED IN SHARED ELECTRICAL FLOOR BOX / POKE-THRU, COORDINATE LOCATION WITH ELECTRICAL DRAWINGS. PROVIDE TWO(2) CATEGORY 6/23 AWG/UTP CABLE FROM STATION OUTLET TO CLOSEST TELECOM ROOM AND TERMINATE ON CATEGORY 6 PATCH PANEL. CABLES TO BE DESIGNATED FOR DATA.
*NOTE: ALL CABLES ROUTED IN SLAB ON GRADE OR BELOW GRADE TO BE WET LOCATION RATED.
*NOTE: WHEN OUTLET IS PROVIDED WITH NUMERICAL SUBSCRIPT, OUTLET IS TO BE INSTALLED WITH NOTED QUANTITY OF CABLES.

CR MULTI-TECHNOLOGY CARD READER MOUNTED AT 42" AFF PROVIDED AND INSTALLED BY SECURITY CONTRACTOR. SEE PLAN DETAILS FOR REQUIREMENTS.

E ELECTRIC DOOR HARDWARE. POWER SUPPLY & DOOR POSITION SWITCH PROVIDED & INSTALLED BY THE SECURITY CONTRACTOR. ALL DEVICES WIRED & INTEGRATED BY THE SECURITY CONTRACTOR. ELECTRIC DOOR HARDWARE PROVIDED AND INSTALLED BY DOOR HARDWARE CONTRACTOR

P DOOR POSITION SWITCH. PROVIDED, INSTALLED, WIRED AND INTEGRATED BY SECURITY CONTRACTOR. SEE PLAN DETAILS FOR REQUIREMENTS.

C CONTACT CLOSURE FOR EXHIBITION CASES. PROVIDED, INSTALLED, WIRED AND INTEGRATED BY SECURITY CONTRACTOR. SEE PLAN DETAILS FOR REQUIREMENTS.

S WALL MOUNTED DOOR SOUNDER AT 6' BELOW CEILING. PROVIDE WALL MOUNTED SINGLE GANG BACKBOX. PROVIDE ONE (1) -3/4" EMT CONDUIT FROM BOX TO NEAREST ACCESSIBLE CEILING.

DOOR OPERATOR PUSH BUTTON. PROVIDED BY DOOR HARDWARE CONTRACTOR. WIRED AND INTEGRATED BY SECURITY CONTRACTOR.

SPLIT INGRESS/EGRESS ADA DOOR OPERATOR PUSH-BUTTON, PROVIDED BY DOOR HARDWARE SUPPLIER AND WIRED AND INTEGRATED BY THE SECURITY CONTRACTOR.

SINGLE-SENSOR VIDEO SURVEILLANCE CAMERA. SEE CAMERA SCHEDULE FOR REQUIREMENTS. TELECOM CONTRACTOR TO PROVIDE ONE(1) CATEGORY 6 CABLE TO LOCATION OF EACH INTERIOR AND EXTERIOR CAMERA. MOUNT OUTLET IN SINGLE PORT SURFACE MOUNT BOX ATTACHED TO STRUCTURAL CEILING. SEE DETAILS FOR TERMINATION REQUIREMENT.

MULTI-SENSOR VIDEO SURVEILLANCE CAMERA. SEE CAMERA SCHEDULE FOR REQUIREMENTS. TELECOM CONTRACTOR TO PROVIDE ONE(1) CATEGORY 6 CABLE TO LOCATION OF EACH INTERIOR AND EXTERIOR CAMERA. MOUNT OUTLET IN SINGLE PORT SURFACE MOUNT BOX ATTACHED TO STRUCTURAL CEILING. SEE DETAILS FOR TERMINATION REQUIREMENT.

FISH-EYE VIDEO SURVEILLANCE CAMERA. SEE CAMERA SCHEDULE FOR REQUIREMENTS. TELECOM CONTRACTOR TO PROVIDE ONE(1) CATEGORY 6 CABLE TO LOCATION OF EACH INTERIOR AND EXTERIOR CAMERA. MOUNT OUTLET IN SINGLE PORT SURFACE MOUNT BOX ATTACHED TO STRUCTURAL CEILING. SEE DETAILS FOR TERMINATION REQUIREMENT.

ELECTRICAL ROUGH-IN LEGEND:

▽ DATA OUTLET. REFERENCE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. PROVIDE WALL MOUNT 4" SQUARE BACKBOX WITH SINGLE GANG TILE RING. PROVIDE ONE (1) - 1" EMT CONDUIT FROM BOX TO NEAREST ACCESSIBLE CEILING SPACE.

TV ▽ DATA/TV OUTLET. REFERENCE ARCHITECTURAL ELEVATIONS AND AUDIO-VISUAL DRAWINGS FOR MOUNTING HEIGHTS. PROVIDE WALL MOUNT 4" SQUARE BACKBOX WITH SINGLE GANG TILE RING. PROVIDE ONE(1) -1" EMT CONDUIT FROM BOX TO NEAREST ACCESSIBLE CEILING SPACE.

W ▽ WALL PHONE OUTLET. PROVIDE WALL MOUNT 4" SQUARE BACKBOX WITH SINGLE GANG TILE RING AT 48" AFF. PROVIDE (1) - 3/4" EMT CONDUIT FROM BOX TO NEAREST ACCESSIBLE CEILING SPACE.

DATA/FIBER OUTLET. REFERENCE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. PROVIDE WALL MOUNT 4" SQUARE BACKBOX WITH SINGLE GANG TILE RING. PROVIDE ONE (1) - 1" EMT CONDUIT FROM BOX TO NEAREST ACCESSIBLE CEILING.

E P ▽ CEILING MOUNT DATA OUTLET. PROVIDE 4-11/16" BACKBOX WITH SINGLE GANG TILE RING SUPPORTED FROM STRUCTURE ABOVE. PROVIDE TWO J-HOOKS SUPPORTED FROM STRUCTURE SPACED 12" APART TO SUPPORT 20' SERVICE LOOP ABOVE FINISHED CEILING. COORDINATE EXACT LOCATION OF SERVICE LOOP WITH ACCESSIBLE CEILING SPACES. FOR DEVICES LOCATED IN OPEN CEILINGS, CABLING TO BE INSTALLED IN 1" EMT CONDUIT.

▽ DATA OUTLET MOUNTED IN SHARED ELECTRICAL FLOOR BOX / POKE-THRU. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR FLOOR BOX REQUIREMENTS. PROVIDE ONE(1) -1" CONDUIT FROM BOX TO NEAREST ACCESSIBLE CEILING SPACE. SIZE CONDUIT PER NEC 40% FILL REQUIREMENTS. UPSIZE TO 1-1/4" CONDUITS WHEN MORE THAN 4 CABLES ARE REQUIRED.

CR MULTI-TECHNOLOGY CARD READER. PROVIDE WALL MOUNT 4" SQUARE BACKBOX WITH SINGLE GANG TILE RING AT 42" AFF. PROVIDE ONE(1) - 1" EMT CONDUIT ROUTED FROM DOOR FRAME TO SECURITY JUNCTION BOX IN NEAREST ACCESSIBLE CEILING SPACE. SEE INSTALLATION DETAILS FOR FURTHER REQUIREMENTS.

E ELECTRIC DOOR HARDWARE. PROVIDE ONE(1) - 3/4" EMT CONDUIT ROUTED FROM DOOR FRAME TO SECURITY JUNCTION BOX IN NEAREST ACCESSIBLE CEILING SPACE. SEE INSTALLATION DETAILS FOR FURTHER REQUIREMENTS.

P DOOR POSITION SWITCH . PROVIDE ONE(1) - 3/4" EMT CONDUIT ROUTED FROM DOOR FRAME TO SECURITY JUNCTION BOX IN NEAREST ACCESSIBLE CEILING SPACE. SEE INSTALLATION DETAILS FOR FURTHER REQUIREMENTS.

S WALL MOUNTED DOOR SOUNDER. PROVIDE WALL MOUNTED SINGLE GANG BACKBOX MOUNTED ON WALL AT 6" BELOW CEILING. PROVIDE ONE (1) -3/4" EMT CONDUIT ROUTED FROM BOX TO NEAREST ACCESSIBLE CEILING SPACE.

DOOR OPERATOR PUSH BUTTON. PROVIDE WALL MOUNT 4" SQUARE BACKBOX WITH ONE (1) - 3/4" EMT CONDUIT ROUTED FROM BOX TO NEAREST ACCESSIBLE CEILING SPACE.

VIDEO SURVEILLANCE CAMERAS. IN ACCESSIBLE CEILING SPACE -PROVIDE TWO J-HOOKS SUPPORTED FROM CEILING STRUCTURE SPACED 12" APART TO SUPPORT 20' SERVICE LOOP AND ROUTE ON J-HOOK SYSTEM TO LOCAL TELECOM ROOM. IN EXPOSED TO STRUCTURE OR INACCESSIBLE CEILING SPACE -PROVIDE ONE(1) -1" EMT CONDUIT FROM CAMERA LOCATION TO ACCESSIBLE CEILING/CABLING PATHWAY. SEE CAMERA SCHEDULE FOR REFERENCE TO MOUNTING DETAIL.

SHEET LIST:

LV-000	COVER PAGE
LV-101	SITE PLAN
LV-201	LEVEL 1 - FLOOR PLAN
LV-301	LARGE SCALES
LV-401	ONE-LINE DIAGRAMS
LV-501	DETAILS
LV-502	DETAILS
LV-503	DETAILS
LV-504	DETAILS
LV-505	DETAILS
LV-506	DETAILS
LV-601	SECURITY CAMERA SCHEDULE

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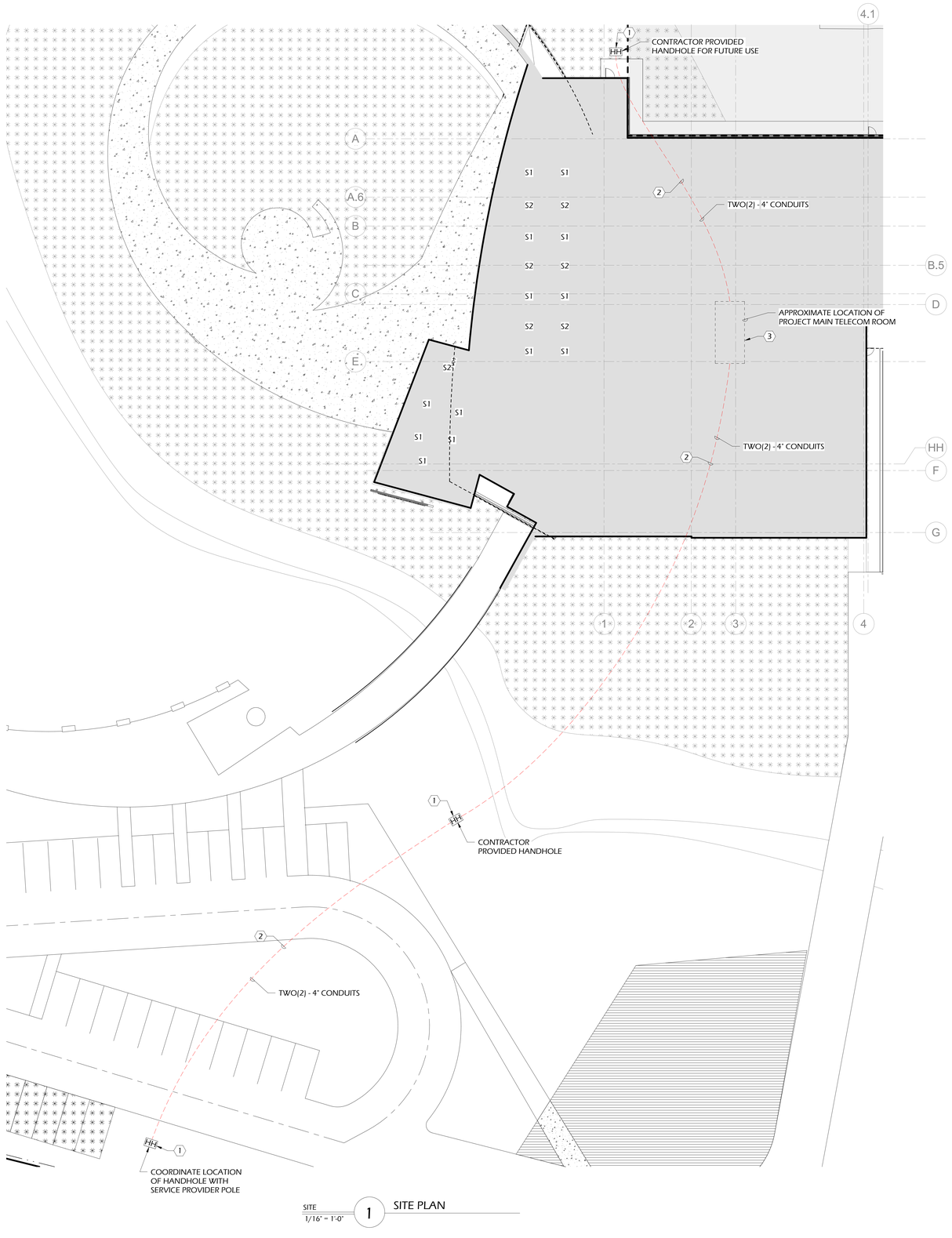
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COVER PAGE

LV-000

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SITE
1/16" = 1'-0"

1 SITE PLAN

GENERAL NOTES:

A. NO CONDUIT RUN TO CONTAIN MORE THAN TWO (2) 90 DEGREE BENDS BETWEEN PULLING POINTS. PROVIDE JUNCTION BOXES WHERE REQUIRED TO MAINTAIN (2) 90 DEGREE BEND RULE.

B. ALL CONDUITS ROUTED BELOW GRADE TO BE SEALED TO PREVENT WATER INFILTRATION INTO EQUIPMENT ROOMS.

C. ALL DAMAGED LANDSCAPING, ASPHALT, AND CONCRETE SHALL BE RETURNED BACK TO THE ORIGINAL CONDITION.

D. REFERENCE ELECTRICAL SPECIFICATIONS FOR DUCT BANK INSTALLATION REQUIREMENTS.

E. ALL OUTSIDE PLANT CABLES TO BE OUTSIDE PLANT (WET LOCATION) RATED.

F. ALL NEW EXTERIOR DUCTBANKS TO BE PROVIDED WITH METALLIC TRACER WIRE TO ALLOW FUTURE LOCATION.

G. ALL LOW VOLTAGE CABLING SHALL BE ROUTED DIRECTLY TO LOW VOLTAGE EQUIPMENT CABINETS WITHOUT SPLICES. JUNCTIONS OR SPLICES IN CABLES ARE NOT ACCEPTABLE.

H. AS REQUIRED BY NATIONAL ELECTRIC CODE, NEC 300.5 (A), PROVIDE MINIMUM OF 24" OF COVER WHERE CONDUITS ARE CROSSING UNDER STREETS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING AREAS.

I. CONTRACTOR SHALL UTILIZE RIGID CONDUIT ELBOWS FOR ALL 90° CONDUIT TURN-UPS FROM UNDERGROUND DUCT BANKS TO INTERIOR LOCATIONS.

KEY NOTES:

(1) PROVIDE AND INSTALL 24" x 36" x 24" QUAZITE HAND HOLE (SITE JUNCTION BOX) WITH TRAFFIC RATED COVER, TIER 22 RATED, FOR NEW DUCT BANK SYSTEM. COORDINATE LOCATION WITH OTHER TRADES. SEE INSTALLATION DETAIL FOR COMPLETE REQUIREMENTS. TRAFFIC RATED COVER TO BE BOLT ON TYPE.

(2) PROVIDE, BELOW GRADE, NOTED QUANTITY OF SCHEDULE 40 PVC CONDUITS BETWEEN HAND HOLES AND BUILDINGS. INSTALL CONDUIT PER NEC CODE REQUIREMENTS. ALL CONDUIT OPENINGS ARE TO BE SEALED. REFER TO ONE-LINE DIAGRAM FOR CABLING REQUIREMENTS.

(3) PROVIDE, BELOW GRADE, NOTED QUANTITY OF SCHEDULE 40 PVC CONDUITS FROM MAIN TELECOM ROOM ON GRADE LEVEL TO 5'-0" FROM BUILDING FOOTING FOR FUTURE USE. INSTALL CONDUIT PER NEC CODE REQUIREMENTS.

(4) USE LONG RADIUS 90 DEGREE ELBOWS TO TURN CONDUIT UP INTO MAIN TELECOM ROOM. CONDUITS TO TURN-UP ~3" ABOVE GRADE SLAB. ALL CONDUIT OPENINGS ARE TO BE SEALED. REFER TO LARGE SCALE DRAWING FOR PLACEMENT OF CONDUITS IN MAIN TELECOM ROOM.

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SITE PLAN

LV-101

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FLOOR PLAN 1 LEVEL 1
1/8" = 1'-0"

GENERAL NOTES:

A. NO CONDUIT RUN ROUTED ABOVE GRADE TO CONTAIN MORE THAN 180° OF BENDS BETWEEN PULLING POINTS. PROVIDE JUNCTION BOXES WHERE REQUIRED TO MAINTAIN 180° DEGREE BEND RULE.

B. ROUTE ALL CABLING IN MOST DIRECT MANNER WHEN REQUIRED TO MEET 90 METER RULE. LOW VOLTAGE CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED SLEEVES FOR ROUTING OF LOW VOLTAGE CABLING. LOW VOLTAGE CONTRACTOR TO FIRE STOP ALL PENETRATIONS TO MAINTAIN RATING OF WALL. SEE DETAILS FOR EXACT REQUIREMENTS.

C. ALL SIGNAL AND LOW VOLTAGE POWER CABLES TO BE ROUTED DIRECT TO EQUIPMENT ROOMS WITHOUT SPLICES. NO JUNCTION OR SPLICES IN CABLES ARE ACCEPTABLE.

D. ALL SIGNAL AND LOW VOLTAGE POWER CABLES TO BE PLENUM RATED. FOR ALL LOW VOLTAGE SYSTEMS PROVIDE EMT RACEWAY FROM TELECOM BACKBOX TO ACCESSIBLE CEILING SPACE AND PROVIDE J-HOOK SUPPORT TO TELECOM ROOM. J-HOOKS TO BE INSTALLED ON 4'-0" CENTERS. CABLES ARE NOT PERMITTED TO LAY UNSUPPORTED ACROSS CEILINGS.

E. IN NON-ACCESSIBLE CEILING SPACE, ALL SIGNAL AND LOW VOLTAGE POWER CABLE TO BE ROUTED IN EMT CONDUIT. MINIMUM SIZE SHALL BE 3/4", SIZE PER NEC 40% FILL REQUIREMENT.

F. COORDINATE EXACT LOCATION OF ALL VIDEO SURVEILLANCE CAMERAS TO ENSURE CLEAR FIELD-OF-VIEW

KEY NOTES:

1. CONTRACTOR TO INTEGRATE REQUEST-TO-EXIT SIGNAL AVAILABLE IN ELECTRIC DOOR HARDWARE INTO SECURITY AND ACCESS CONTROL SYSTEM.
2. ACCESS CONTROL DEVICES TO BE INTEGRATED WITH AUTOMATIC DOOR OPERATORS BY SECURITY CONTRACTOR. WHEN BUILDING IS SECURED, EXTERIOR PUSH-BUTTON TO BE DISABLED UNTIL VALID CARD READ. INTERIOR ADA PUSH-BUTTONS TO BE ENABLED AT ALL TIMES AND INTERFACED WITH ELECTRIC DOOR HARDWARE AND OPERATORS.
3. COORDINATE LOCATION OF SHARED FLOOR BOX WITH ELECTRICAL CONTRACTOR AND EXHIBIT/FURNITURE LOCATION. ALL CABLES ROUTED IN SLAB ON GRADE OR BELOW GRADE TO BE OSP 'WET LOCATION' RATED. PROVIDE CONDUIT SYSTEM FROM FLOOR BOX TO NEAREST WALL AND INTO ACCESSIBLE CEILING SPACE. TRANSITION FROM OSP TO PLENUM RATED CABLE IN JUNCTION BOX.
4. CONTRACTOR TO COORDINATE EXACT LOCATION OF DATA/TV OUTLET WITH AUDIO-VISUAL DRAWINGS AND ARCHITECTURAL ELEVATIONS. MOUNT DATA OUTLET IN SHARED ELECTRICAL BACKBOX.
5. WALL MOUNT ALARM SOUNDER TO BE INTEGRATED WITH ADJACENT DOOR POSITION SWITCH. DOOR TO ALARM UPON FORCED OR PROPPED DOOR CONDITIONS.
6. CONTRACTOR TO COORDINATE EXACT LOCATION OF DATA OUTLET FOR CEILING MOUNT PROJECTOR WITH AUDIO-VISUAL DRAWINGS.
7. CONTRACTOR TO COORDINATE EXACT LOCATION OF CEILING MOUNT DATA OUTLET FOR EXHIBITS WITH ARCHITECTURAL ELEVATIONS AND OWNER PRIOR TO ROUGH-IN. TERMINATE CABLES WITH MALE RJ-45 CONNECTOR AND COIL 25' SERVICE LOOP SUPPORTED ON J-HOOK SYSTEM.
8. ALARM STROBE/SOUNDER TO BE ROUTED TO SECURITY CONTROL PANEL TO ALLOW SCHEDULING OF DEVICE. ALL ASSOCIATED CAMERAS & EXHIBIT SHOWCASE CONTACTS IN ZONED AREAS TO BE CONFIGURED TO TRIGGER ALARM.
9. ACCESS CONTROL DEVICES TO BE INTEGRATED WITH AUTOMATIC DOOR OPERATORS BY SECURITY CONTRACTOR. WHEN BUILDING IS SECURED, EXTERIOR PUSH-BUTTON TO BE DISABLED. INTERIOR ADA PUSH-BUTTONS TO BE ENABLED AT ALL TIMES AND INTERFACED WITH ELECTRIC DOOR HARDWARE AND OPERATORS. WIRE TO SECURITY AND ACCESS CONTROL SYSTEM TO ALLOW CONTROL FROM SECURITY SCHEDULES

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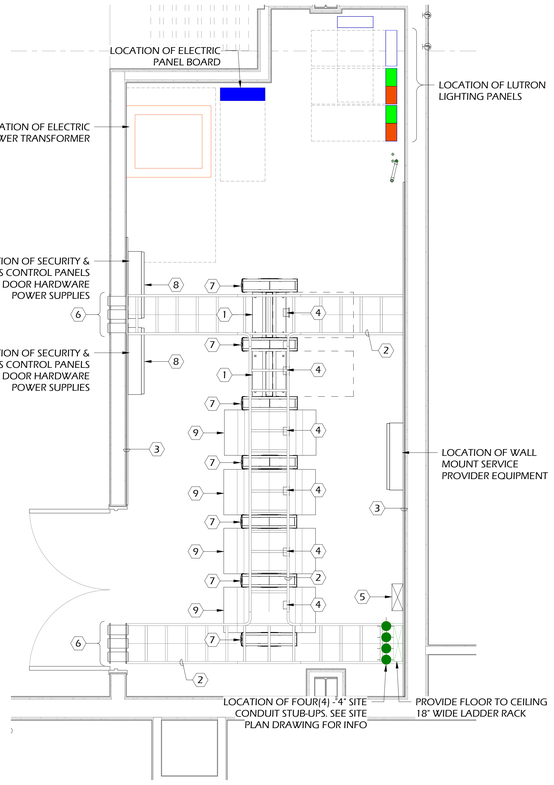
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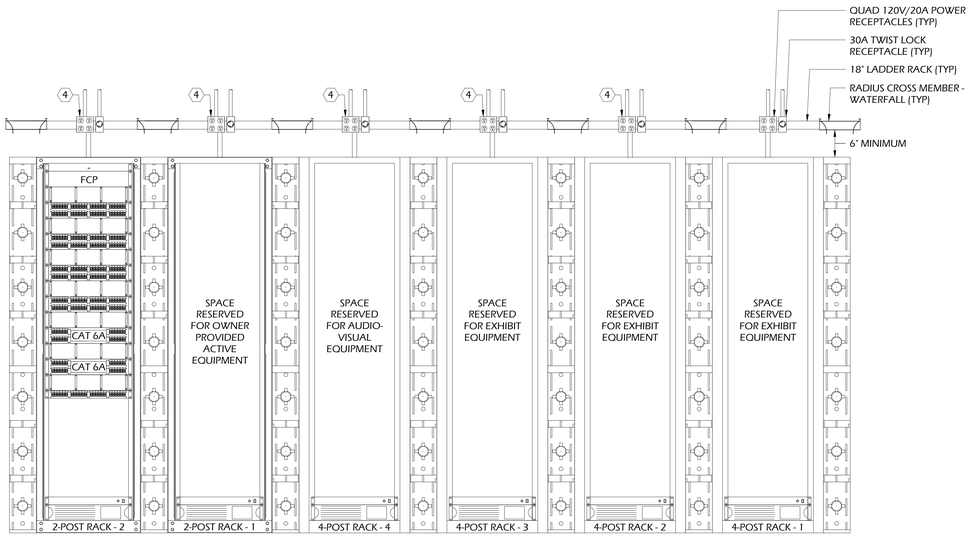
LEVEL 1 - FLOOR PLAN

LV-201

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: AJ
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LARGE SCALE 1/2" = 1'-0" 1 AV 113 (MDF)



ELEVATION N.T.S. 2 AV 113 (MDF) - RACK ELEVATION

KEY NOTES:

1. CONTRACTOR TO PROVIDE TIA/EIA STANDARD 2-POST 84"X 19" OPEN FRAME RELAY RACK. RACK TO BE PROVIDED WITH TWO-SIDED VERTICAL WIRE MANAGERS ON BOTH ENDS OF RACK. SEE DETAIL FOR TYPICAL RACK ELEVATION.
2. TELECOM CONTRACTOR TO PROVIDE AND INSTALL 18" HORIZONTAL LADDER RACK INSTALLED AT 90° AFF. LADDER RACK TO BE PROVIDED WITH TURN-DOWN VANES ABOVE VERTICAL WIRE MANAGERS.
3. GENERAL CONTRACTOR TO PROVIDE AND INSTALL 8' HIGH X 3/4" THICK CDX PLYWOOD BACKBOARDS INSTALLED AT 18" AFF ON NOTED THREE WALLS. BOTH SIDES AND ALL EDGES SHALL BE TREATED WITH TWO (2) COATS OF FIRE-RETARDANT GREY PAINT. UTILIZE RECESSED FASTENERS.
4. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE(1) L6-30R 208V POWER RECEPTACLE AND ONE(1) 5-20R 120V DEDICATED QUAD POWER RECEPTACLE ROUTED IN METAL CONDUIT, INSTALLED ON OUTSIDE EDGE OF LADDER RACK.
5. ELECTRICAL CONTRACTOR FURNISHED AND INSTALLED GROUNDING BUSBAR INSTALLED AT 84" AFF. REFER TO GROUNDING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. PROVIDE THREE (3) -4" CONDUIT SLEEVES. FIRESTOP PENETRATIONS TO MATCH WALL RATING.
7. TELECOM CONTRACTOR TO PROVIDE AND INSTALL VERTICAL CABLE MANAGER, DOUBLE-SIDED, 84" HIGH X 6" WIDE X 24.5" DEEP.
8. DEDICATED 120VAC/20A POWER RECEPTACLE INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH SECURITY CONTRACTOR.
9. CONTRACTOR TO PROVIDE TIA/EIA STANDARD 4-POST 84"X 19" OPEN FRAME RELAY RACK. RACK TO BE PROVIDED WITH TWO-SIDED VERTICAL WIRE MANAGERS ON BOTH ENDS OF RACK. SEE DETAIL FOR TYPICAL RACK ELEVATION.

DEVICE LEGEND:

- BLANK COVERPLATE (1RU)
- FCP — FIBER CONNECTOR PANEL (2RU)
- 48-PORT CATEGORY 6 PATCH PANEL (2RU)
- CAT 6A — 48-PORT CATEGORY 6A PATCH PANEL (2RU)
- 24-PORT VOICE PATCH PANEL
- HORIZONTAL WIRE MANAGER (2RU)

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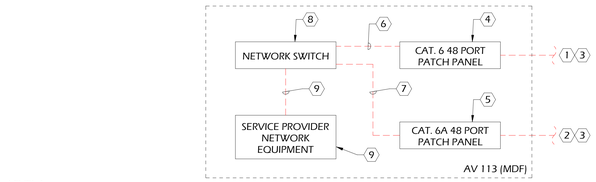
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LARGE SCALES

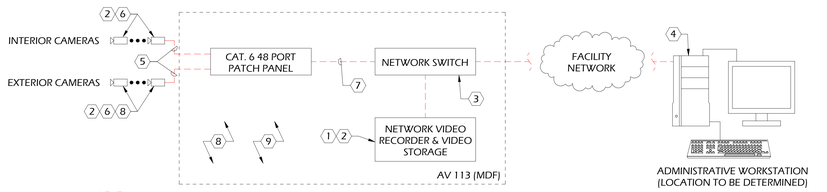
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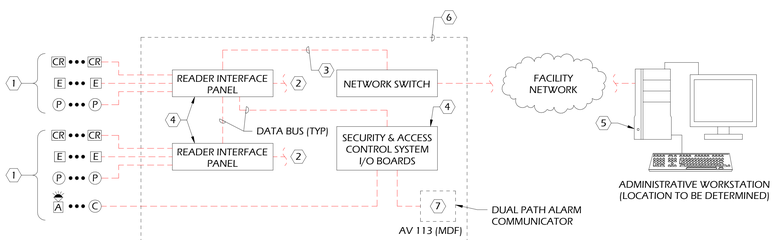
LEVEL 1

ONE-LINE N.T.S. 1 DATA INFRASTRUCTURE



LEVEL 1

ONE-LINE N.T.S. 2 VIDEO SURVEILLANCE SYSTEM



LEVEL 1

ONE-LINE N.T.S. 3 ACCESS CONTROL SYSTEM

DATA INFRASTRUCTURE KEY NOTES:

1. PROVIDE PLENUM-TYPE 23 AWG/CATEGORY 6 COMPLIANT 4 PR. CABLE FROM CATEGORY 6 PATCH PANEL IN TELECOM ROOMS TO STATION OUTLET LOCATIONS & IP CAMERAS. SEE LEGEND AND FLOOR PLANS FOR REQUIREMENTS.
2. PROVIDE PLENUM-TYPE 23 AWG/CATEGORY 6A COMPLIANT 4 PR. CABLES FROM CATEGORY 6A PATCH PANELS IN TELECOM ROOMS TO ALL WIRELESS ACCESS POINT LOCATIONS.
3. REFERENCE OUTLET DETAILS FOR TERMINATIONS REQUIREMENTS.
4. ALL CATEGORY 6 COPPER PATCH PANELS TO BE SIZED AS REQUIRED TO PROVIDE CAT. 6 LINK TO ALL STATIONS. PROVIDE SPARE CAPACITY AS REQUIRED IN SPECIFICATIONS. PATCH PANELS TO BE CATEGORY 6 48 PORT TYPE. SEE RACK ELEVATIONS FOR REQUIREMENTS.
5. ALL CATEGORY 6A COPPER PATCH PANELS TO BE SIZED AS REQUIRED TO PROVIDE CAT. 6A LINK TO ALL STATIONS. PROVIDE SPARE CAPACITY AS REQUIRED IN SPECIFICATIONS. PATCH PANELS TO BE CATEGORY 6A 48 PORT TYPE. SEE RACK ELEVATIONS FOR REQUIREMENTS.
6. PROVIDE ONE(1) - 2 METER CATEGORY 6 PATCH CABLE FOR EACH TERMINATED CATEGORY 6 HORIZONTAL CIRCUITS. COORDINATE EXACT COLOR AND LENGTHS WITH OWNER PRIOR TO ORDERING.
7. PROVIDE ONE(1) - 2 METER CATEGORY 6A PATCH CABLE FOR EACH TERMINATED CATEGORY 6A HORIZONTAL CIRCUIT. COORDINATE EXACT COLOR AND LENGTHS WITH OWNER PRIOR TO ORDERING.
8. POE IP NETWORK SWITCH TO BE PROVIDED BY OWNER.
9. NETWORK SERVICE EQUIPMENT AND PATCH CORDS TO BE PROVIDED BY SERVICE PROVIDER.

VIDEO SURVEILLANCE KEY NOTES:

1. SECURITY CONTRACTOR SHALL PROVIDE ALL REQUIRED NVR'S FOR SURVEILLANCE VIDEO STORAGE. SECURITY CONTRACTOR SHALL PROVIDE ALL REQUIRED LICENSING FOR FULLY OPERATIONAL SYSTEM. NVR STORAGE TO BE SIZED FOR 30 DAYS.
2. SECURITY CONTRACTOR TO CONFIGURE VMS SYSTEM FOR "ACTIVITY DETECTION RECORDING". SEE SPECIFICATIONS FOR REQUIREMENTS. ALL VIDEO TO BE CONFIGURED TO BE MAINTAINED FOR A MINIMUM OF 30 DAYS.
3. OWNER TO PROVIDE CORE SWITCH AND POWER-OVER-ETHERNET SWITCH MOUNTED IN TELECOM RACK.
4. SECURITY CONTRACTOR TO LOAD AND CONFIGURE OWNER PROVIDED VIDEO SURVEILLANCE SOFTWARE ON OWNER PROVIDED WORKSTATIONS. ALL CAMERA SETTINGS TO BE PROGRAMMED BY CONTRACTOR TO OWNER'S SATISFACTION.
5. TELECOM CONTRACTOR TO PROVIDE AND INSTALL ONE(1) CATEGORY 6 CABLE FOR EACH IP DEVICE.
6. SECURITY CONTRACTOR TO PROVIDE AND INSTALL ALL VIDEO SURVEILLANCE CAMERAS, MOUNTS AND WIRING. CONTRACTOR TO ENSURE CLEAR FIELD-OF VIEW FOR ALL CAMERAS. SEE FLOOR PLANS FOR LOCATIONS. SEE CAMERA SCHEDULE FOR MOUNTING REQUIREMENTS.
7. TELECOM CONTRACTOR TO PROVIDE AND INSTALL ALL CATEGORY 6 PATCH CABLES.
8. SECURITY CONTRACTOR TO PROVIDE AND INSTALL POE SURGE PROTECTOR AT DEVICE AND RACK MOUNTED POE SURGE PROTECTOR IN TELECOM ROOM. BASIS OF DESIGN IS DITEK MODEL #DTK-RM12POE (RACK) AND #DTK-MRJPOES (DEVICE). EACH PROTECTOR PANEL SHALL HAVE A #6 CONDUCTOR BACK TO TELECOM ROOM GROUNDING BUSBAR.
9. SECURITY CONTRACTOR TO PROGRAM UP TO FIVE(5) OWNER PROVIDED SMART WIRELESS DEVICES. CONTRACTOR TO PROVIDE ALL REQUIRED LICENSING.

ACCESS CONTROL KEY NOTES:

1. VERIFY AND PROVIDE EXACT QUANTITY OF CARD READERS, DOOR POSITION SWITCH INPUTS, AND MISCELLANEOUS SIGNAL INPUTS AS SHOWN ON CONTRACT DRAWINGS.
2. CONTRACTOR TO INTERFACE WITH ELECTRIC LOCKS PER THE CONTRACT SPECIFICATIONS. CONTRACTOR TO INTEGRATE ALL CONTROLLED OUTPUTS INTO ACCESS CONTROL SYSTEM. VERIFY QUANTITY OF ALL CONTROLLED OUTPUTS WITH CONTRACT DRAWINGS.
3. SECURITY CONTRACTOR TO INTERFACE WITH BUILDING NETWORK BY PROVIDING CATEGORY 6 DATA CABLES BETWEEN ACCESS CONTROL PANELS AND OWNER PROVIDED NETWORK SWITCH.
4. SECURITY PANELS WITH BATTERY BACKUP TO BE PROVIDED BY THE SECURITY CONTRACTOR. ALL WIRING & TESTINGTO BE PERFORMED BY THE SECURITY CONTRACTOR.
5. SECURITY CONTRACTOR TO LOAD AND CONFIGURE SECURITY & ACCESS CONTROL SOFTWARE ON UP TO THREE(3) OWNER PROVIDED WORKSTATIONS. ALL SECURITY SETTINGS TO BE PROGRAMMED BY THE SECURITY CONTRACTOR TO THE UNIVERSITY'S REQUIREMENTS.
6. SECURITY CONTRACTOR TO PROGRAM UP TO FIVE(5) OWNER PROVIDED SMART WIRELESS DEVICES. CONTRACTOR TO PROVIDE ALL REQUIRED LICENSING.
7. SECURITY CONTRACTOR TO PROVIDE AND PROGRAM DUAL PATH CELLULAR ALARM AND INTERNET ALARM COMMUNICATOR FOR INTERFACE WITH OWNER SELECTED MONITORING SERVICE PROVIDER.

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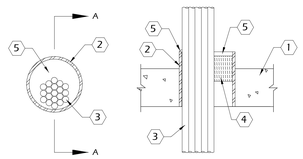
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ONE-LINE DIAGRAMS

LV-401

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SECTION A-A

F RATINGS -2, 3 AND 4 HR (SEE ITEM 5)
T RATINGS - 0, 1/2 AND 2-3/4 HR (SEE ITEM 5)

KEY NOTES: (APPLY TO THIS DETAIL ONLY)

1. FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. (64 MM) OR 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. FLOOR MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS*. MAX DIAM OF OPENING IS 6 IN. (152 MM). SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. SLEEVE - (OPTIONAL) - NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE SLEEVE, NOM 6 IN. (152 MM) DIAM (OR SMALLER) NO. 26 GA (0.022 IN. OR 0.56 MM THICK) SHEET STEEL SLEEVE WITH SQUARE ANCHOR FLANGE SPOT WELDED TO SLEEVE AT APPROX MID-HEIGHT OR NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 40 POLYVINYL CHLORIDE (PVC) PIPE SLEEVE CAST OR GROUTED INTO FLOOR OR WALL FLUSH WITH FLOOR OR WALL SURFACES. STEEL PIPE SLEEVE MAY BE INSTALLED TO PROJECT A MAX OF 2 IN. (51 MM) BEYOND THE FLOOR OR WALL SURFACES.

3. CABLES - AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN SLEEVE TO BE MAX 45 PERCENT OF THE CROSS-SECTIONAL AREA OF THE SLEEVE. SEE ITEM 5 FOR SPECIFIC CABLE FILL REQUIREMENTS. TIGHT BUNDLE OF CABLES TO BE INSTALLED IN THE STEEL SLEEVE. THE ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM SHALL BE A MIN OF 0 IN. (POINT CONTACT) TO A MAX OF 2 IN. IN 4 HR FIRE RATED ASSEMBLIES, THE ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM SHALL BE A MIN OF 1/4 IN. (6 MM) TO A MAX OF 1 IN. (25 MM). CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF CABLES MAY BE USED:
   - A. MAX 400 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   - B. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   - C. MAX 3/C NO. 2/0 AWG (OR SMALLER) COPPER CONDUCTOR PVC JACKETED ALUMINUM CLAD OR STEEL CLAD TECK 90 CABLE.
   - D. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   - E. MAX 1/C 1000 KCMIL (OR SMALLER) COPPER CONDUCTOR POWER CABLE WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   - F. MAX RG59/U (OR SMALLER) COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.
   - G. MAX 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   - H. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC INSULATION AND JACKET.

3A. THROUGH PENETRATING PRODUCT* - (NOT SHOWN) - MAX 4/C NO. 2/0 AWG (OR SMALLER) STEEL OR ALUMINUM ARMORED CABLE+ OR METAL CLAD CABLE+ WITH COPPER OR ALUMINUM CONDUCTORS. DIAM OF CABLE BUNDLE (ITEM 3) INCLUDING ARMORED CABLE NOT TO EXCEED 4 IN. THROUGH PENETRATING PRODUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF A FLOOR OR WALL ASSEMBLY.

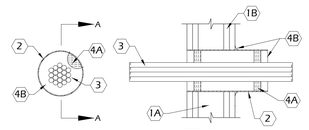
4. AFC CABLE SYSTEMS INC
   PACKING MATERIAL - MIN 2, 3 OR 4 IN. (51, 76 OR 102 MM) THICKNESS OF MIN 4 PCF (64 KG/M3) DENSITY MINERAL-WOOL BATT INSULATION TIGHTLY PACKED INTO OPENING AS A PERMANENT FORM FOR 2, 3 OR 4 HR FIRE RATED ASSEMBLIES, RESPECTIVELY . PACKING MATERIAL TO BE RECESSED FROM TOP EDGE OF SLEEVE OR FROM TOP SURFACE OF CONCRETE IN CAST CONCRETE FLOOR ASSEMBLIES TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. PACKING MATERIAL TO BE RECESSED FROM BOTH EDGES OF SLEEVE OR FROM BOTH SURFACES OF ASSEMBLY IN WALLS AND IN FLOOR CONSTRUCTED WITH HOLLOW-CORE PRECAST CONCRETE UNITS TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

5. FILL, VOID OR CAVITY MATERIAL* - SEALANT OR PUTTY - MIN 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS FOR 2 AND 3 HR F RATINGS. MIN 3/4 IN. (19 MM) THICKNESS OF FILL MATERIAL APPLIED WITH THE ANNULUS FOR 4 HR F RATING. IN FLOORS, FILL MATERIAL TO BE INSTALLED FLUSH WITH TOP EDGE OF SLEEVE OR TOP SURFACE OF FLOOR. IN WALLS AND IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS, FILL MATERIAL TO BE INSTALLED FLUSH WITH BOTH ENDS OF SLEEVE OR BOTH SURFACES OF ASSEMBLY. F AND T RATINGS OF FIRESTOP SYSTEM ARE DEPENDENT UPON THE THROUGH OPENING SIZE, THICKNESS OF CONCRETE, SLEEVE TYPE AND PERCENT CABLE FILL, AS SHOWN IN THE FOLLOWING TABLE:

MAX OPENING DIAM	MIN CONCRETE THICKNESS	OPTIONAL SLEEVE TYPE	CABLE TYPE	PERCENT CABLE FILL	F RATING	T RATING
6 IN. (152 MM)	2-1/2 IN. (64 MM)	PVC	A TO H, 3A	37	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	PVC	H	45	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	STEEL	A TO H, 3A	37	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	STEEL	H	45	2 HR	0 HR
6 IN. (152 MM)	4-1/2 IN. (114 MM)	STEEL	A TO H, 3A	34	3 HR	1/2 HR
6 IN. (152 MM)	4-1/2 IN. (114 MM)	STEEL	H	45	3 HR	1/2 HR
2 IN. (52 MM)	4-1/2 IN. (114 MM)	STEEL	H	40	3 HR	2-3/4 HR
2 IN. (52 MM)	4-1/2 IN. (114 MM)	STEEL	H	40	4 HR	2-3/4 HR

SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT. WHEN MIN FLOOR OR WALL THICKNESS IS 4-1/2 IN. (114 MM) , SPECSEAL PUTTY MAY BE USED.
*BEARING THE UL CLASSIFICATION MARK

DETAIL NOT TO SCALE 1 FIRESTOP SYSTEM - C-AJ-3154



SECTION A-A

F RATINGS -1 AND 2 HR (SEE ITEM 1)
T RATING - 3/4 HR

KEY NOTES: (APPLY TO THIS DETAIL ONLY)

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   - A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 X 4 IN. (51 X 102MM) LUMBER SPACED 16 IN. (406MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (76MM) WIDE AND SPACED MAX 14 IN. (610MM) OC.
   - B. GYPSUM BOARD - THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 4-1/2 IN. (114MM).
   - C. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. STEEL SLEEVE - NOM. 4 IN. (102MM) DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT), STEEL CONDUIT OR SCHEDULE 5 (OR HEAVIER) STEEL PIPE SLEEVE FRICTION-FITTED INTO WALL ASSEMBLY. SLEEVE MAY BE INSTALLED FLUSH WITH OR EXTEND UP TO 18 IN. (46 CM) BEYOND ONE OR BOTH WALL SURFACES.

3. CABLES - AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN STEEL SLEEVE TO BE MAX. 48 PERCENT OF THE AGGREGATE CROSS-SECTIONAL AREA OF THE SLEEVE. CABLES TO BE BUNDLED AND RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNULAR SPACE BETWEEN THE CABLES AND THE SLEEVE SHALL BE MIN. 0 IN. (POINT CONTACT) TO MAX. 1-1/2 IN. (38MM). ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLE MAY BE USED:
   - A. MAX 200 PAIR NO. AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   - B. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   - C. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   - D. MAX 7/C NO. 2/0 AWG (OR SMALLER) MULTICONDUCTOR POWER AND CONTROL CABLES WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   - E. MAX. RG/U (OR SMALLER) COAXIAL CABLE WITH FLOURINATED ETHYLENE INSULATION AND JACKETING.
   - F. MAX. 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   - G. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC INSULATION AND JACKET.
   - H. MAX. 4/C NO 2/0 ALUMINUM OR COPPER CONDUCTOR ALUMINUM OR STEEL METAL-CLAD# OR ARMORED-CLAD# CABLE.

FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

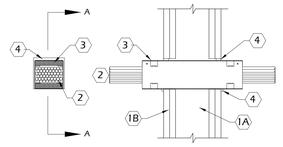
4. A. PACKING MATERIAL - WHEN REQUIRED (SEE TABLE IN ITEM 3B), MIN. 1 IN. (25MM) THICKNESS OF MIN. 4.0 PCF (64 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO EACH END OF SLEEVE AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM EACH END OF SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

   B. FILL, VOID OR CAVITY MATERIAL* - SEALANT OR PUTTY - FILL MATERIAL APPLIED TO APPROPRIATE THICKNESS WITHIN STEEL SLEEVE, FLUSH WITH EDGES OF STEEL SLEEVE ON BOTH SURFACES OF WALL. MIN. 1/2 IN. (13MM) DIAM. BEAD OF SEALANT OR "ROPE" OF PUTTY SHALL BE APPLIED AROUND THE PERIMETER OF THE SLEEVE ON EACH SIDE OF THE WALL WHEN SLEEVE EXTENDS BEYOND SURFACE OF WALL. SEE TABLE BELOW FOR FILL MATERIAL THICKNESS REQUIREMENTS.

SEALANT OR PUTTY TYPE	THICKNESS	PACKING MATERIAL REQUIRED
SPECSEAL SERIES SSS SEALANT OR LCI SEALANT	1/2 IN. (13 MM)	YES
SPECSEAL SERIES SSS SEALANT OR LCI SEALANT	1 IN. (25 MM)	NO
SPECSEAL PUTTY	1 IN. (25 MM)	NO

SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT. WHEN MIN FLOOR OR WALL THICKNESS IS 4-1/2 IN. (114 MM) , SPECSEAL PUTTY MAY BE USED.
*BEARING THE UL CLASSIFICATION MARK

DETAIL NOT TO SCALE 2 FIRESTOP SYSTEM - W-L-3210



SECTION A-A

F RATINGS -1 AND 2 HR (SEE ITEM 1)
T RATING - 3/4 HR (SEE ITEM 2)
L RATING AT AMBIENT - LESS THAN 1, 1.3, 4 OR 7 CFM (SEE ITEM 3)
L RATING AT 400 F - LESS THAN 1, 2 OR 3 CFM (SEE ITEM 3)

KEY NOTES: (APPLY TO THIS DETAIL ONLY)

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   - A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 X 4 IN. (51 X 102MM) LUMBER SPACED 16 IN. (406MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (76MM) WIDE AND SPACED MAX 14 IN. (610MM) OC.
   - B. GYPSUM BOARD - THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 4-1/2 IN. (114MM).
   - C. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. CABLES - WITHIN THE LOADING AREA FOR EACH FIRESTOP DEVICE MODULE, THE CABLES MAY REPRESENT A 0 TO 100 PERCENT VISUAL FILL. CABLE FILL TO BE DISTRIBUTED AT A UNIFORM HEIGHT ACROSS THE WIDTH OF THE FIRESTOP DEVICE MODULE. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES OF CABLES MAY BE USED:
   - A. MAX. 100 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUTOR TELECOMMUNICATION CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   - B. MAX. 350 KCMIL SINGLE COPPER CONDUCTOR POWER CABLE WITH XLP E JACKET AND INSULATION.
   - C. MAX 7/C NO. 12 AWG COPPER CONDUCTOR CONTROL CABLE WITH PVC OR XLP E JACKET AND INSULATION.
   - D. MAX. 3/C NO. 10 AWG METAL CLAD OR ARMORED CABLE WITH STEEL OR ALUMINUM JACKET.
   - E. MAX. 3/C NO. 8 AWG NM CABLE (ROMEX) WITH PVC INSULATION AND JACKET.
   - F. MAX FOUR PAIR NO. 22 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC OR PLENUM RATED JACKETING AND INSULATION.
   - G. MAX RG/U COAXIAL CABLE WITH FLOURINATED ETHYLENE INSULATION AND JACKETING.
   - H. FIBER OPTIC CABLE WITH PVC OR POLYETHYLENE (PE) JACKET AND INSULATION HAVING A MAX. DIAM. OF 5/8 IN.
   - I. [12MM] AL FIBER RACEWAY - MAX 1-1/2 IN. (38MM) DIAM. (OR SMALLER) OPTICAL FIBER RACEWAY ("INNERDUCT") FORMED OF EITHER PVC OR POLYVINYLIDENED FLOURIDE (PVDF) WITH OPTICAL FIBER CABLE FILL. RACEWAYS INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA 70).

   WHEN THE HOURLY RATING OF THE WALL ASSEMBLY IS 1 HR, THE T RATING IS 3/4 HR. WHEN THE HOURLY RATING OF THE WALL ASSEMBLY IS 2 HR, THE T RATING IS 3/4 HR. WHEN ITEM 2A, 2B,2C,2D OR 2E IS USED. OTHERWISE THE T RATING IS 1 HR.

3. THE L RATING FOR THE EMPTY FIRESTOP DEVICE IS LESS THAN 1CFM AT AMBIENT AND AT 400F.WHEN ITEM 3A IS USED, THE L RATING FOR THE FIRESTOP DEVICE WITH 100 PERCENT VISUAL FILL IS 4 CFM AT AMBIENT AND 3 CFM AT 400F. WHEN ITEM 3F IS USED, THE L RATING FOR THE FIRESTOP DEVICE WITH 100 PERCENT VISUAL FILL IS 1.3 CFM AT AMBIENT AND LESS THAN 1 CFM AT 400F. WHEN ITEM 3G OR 3H IS USED, THE L RATING FOR THE FIRESTOP DEVICE WITH 100 PERCENT VISUAL FILL IS 7 CFM AT AMBIENT AND 2 CFM AT 400F.

   FIRESTOP DEVICE - FIRESTOP DEVICE CONSISTS OF A 3 X 3 X 10-1/2 IN. (76 X 76 X 267MM) LONG GALV. STEEL TUBE WITH AN INTUMESCENT MATERIAL LINING. FIRESTOP DEVICE TO BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. PRIOR TO INSTALLATION WITHIN WALL, ATTACHMENT SCREWS AND LID REMOVED FROM DEVICE TO CAPTURE GROUPED CABLES. AFTER INSTALLATION OF CABLES, LID REPLACED AND REATTACHED WITH SAME SCREWS. DEVICE SLID ALONG CABLES INTO WALL SUCH TAT LID IS ON TOP AND ENDS PROJECT AN EQUAL DISTANCE FROM THE APPROX. CENTERLINE OF THE WALL ASSEMBLY. THE SPACE BETWEEN THE DEVICE AND THE PERIPHERY OF THE OPENING SHALL BE MIN. 0 IN. (0MM) TO MAX. 1/2 IN. (13MM).
   SPECIFIED TECHNOLOGIES INC - EZ PATH SERIES 33 FIRE RATED PATHWAY

4. FILL, VOID OR CAVITY MATERIAL - SEALANT - MIN. 5/8 IN. (6MM) THICKNESS OF SEALANT TO BE APPLIED IN ANNULAR SPACE BETWEEN FIRESTOP DEVICE AND PERIPHERY OF OPENING ON EACH SIDE OF WALL ASSEMBLY. NOM. 3/8 IN. (10MM) DIAM. BEAD OF FILL MATERIAL APPLIED AT THE FIRESTOP DEVICE/GYPSUM BOARD INTERFACE ON BOTH SIDES OF THE WALL ASSEMBLY.

   SPECIFIED TECHNOLOGIES INC. - SPECSEAL 100,101,102,105,120 OR 129 SEALANT, SPECSEAL LCI SEALANT, SPECSEAL LC150 SEALANT, PENSIL 300 SEALANT OR SPECSEAL SERIES SIL300 SEALANT.

DETAIL NOT TO SCALE 3 FIRESTOP SYSTEM - W-L-3219

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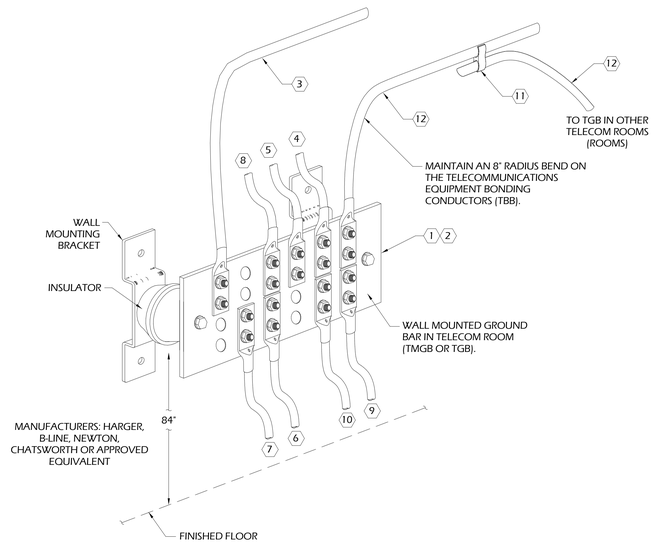
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DETAILS

LV-501

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: AJ
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GENERAL NOTES:

A. TELECOMMUNICATIONS BONDING BACKBONE (TBB) SHALL BE A CONTINUOUS CONDUCTOR AND SHALL BE SPLICED TO TELECOMMUNICATIONS GROUND BUSBARS WITH A SHORT BONDING CONDUCTOR. USE CONDUCTOR TABLE TO CALCULATE TBB SIZE. CONTRACTOR TO COMPLY WITH ALL REQUIREMENTS OF NASI/TIA-607B.

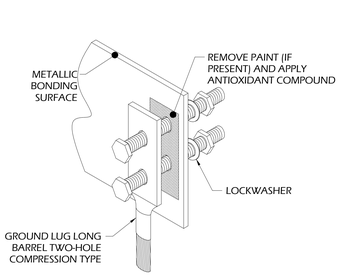
B. GROUNDING EQUALIZER (GE) SHALL BE A CONTINUOUS CONDUCTOR AND SHALL BE SPLICED TO TELECOMMUNICATIONS GROUND BUSBARS WITH A SHORT BONDING CONDUCTOR. USE CONDUCTOR TABLE TO CALCULATE GE SIZE. CONTRACTOR TO COMPLY WITH ALL REQUIREMENTS OF ANSI/TIA-607C.

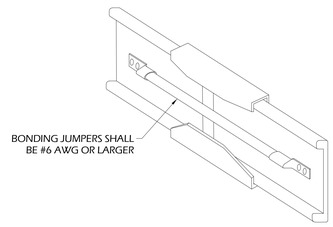
C. ALL GROUNDING LUGS SHALL BE TWO HOLE, NO EXCEPTIONS.

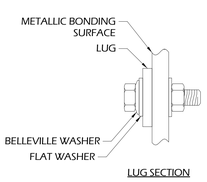
CONDUCTOR TABLE	
LINEAR LENGTH (FT.)	SIZE (AWG)
LESS THAN 13	6
14 - 20	4
21 - 26	3
27 - 33	2
34 - 41	1
42 - 52	1/0
53 - 66	2/0
GREATER THAN 67	3/0

KEY NOTES:

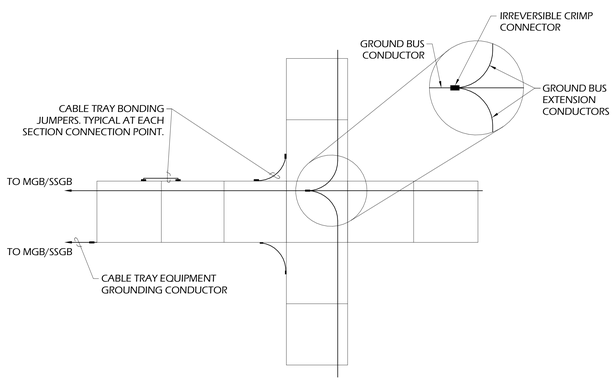
1. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB). TMGB SHALL BE PRE-DRILLED COPPER BUSBAR WITH STANDARD NEMA BOLT HOLE SIZING AND SPACING. MINIMUM SIZING SHALL BE ¼" THICK X 4" WIDE X 24" LENGTH.
2. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). TGB SHALL BE PRE-DRILLED COPPER BUSBAR WITH STANDARD NEMA BOLT HOLE SIZING AND SPACING. MINIMUM SIZING SHALL BE ¼" THICK X 4" WIDE X 18" LENGTH.
3. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING MAIN ELECTRICAL GROUNDING SYSTEM AND BUILDING STEEL. USE CONDUCTOR TABLE TO CALCULATE BCT SIZE. NOTE: THE BCT AND THE TBB SHALL BE THE SAME SIZE BASED UPON THE LARGER CONDUCTOR.
4. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO ELECTRICAL PANELS WITHIN THE MDF AND IDF ROOMS. USE CONDUCTOR TABLE TO CALCULATE BCT SIZE.
5. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL BONDING CONDUCTOR TO THE BUILDING STEEL. USE CONDUCTOR TABLE TO CALCULATE CONDUCTOR SIZE.
6. TELECOMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC) ROUTED ON LADDER RACK TO BOND EACH TELECOMMUNICATIONS RACK OR CABINET TO THE TMGB OR TGB. USE CONDUCTOR TABLE TO CALCULATE CONDUCTOR SIZE. EACH TEBC SHALL BE A CONTINUOUS CONDUCTOR. SPLICE A #6AWG CONDUCTOR USING AN IRREVERSIBLE COMPRESSION OR EXOTHERMAL WELD FROM THE TEBC TO EACH RACK OR CABINET MOUNTED GROUNDING BUSBAR. DAISY CHANNELING FROM ONE RACK OR CABINET TO ANOTHER IS NOT ACCEPTABLE.
7. TELECOMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR FROM TMGB OR TGB TO EACH LEVEL OF THE LADDER RACK SYSTEM WITH A #6AWG CONDUCTOR. EACH SECTION OF THE LADDER RACK SYSTEM SHALL BE BONDED TOGETHER WITH CABLE RUNWAY STRAPS.
8. TELECOMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR FROM TMGB OR TGB TO EACH EMT CONDUIT USED FOR BACKBONE CABLING WITH A #6 AWG CONDUCTOR. CONDUIT SHALL BE BONDED ON BOTH ENDS.
9. TELECOMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR FROM TMGB OR TGB TO EACH METAL JACKET OF THE ARMORED FIBER OPTIC CABLE WITH A #6 AWG CONDUCTOR. METAL JACKET SHALL BE BONDED ON BOTH ENDS.
10. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR FROM TMGB OR TGB TO EACH EMT CONDUIT AND CABLE BASKET TRAY SYSTEM USED FOR DISTRIBUTING HORIZONTAL CABLING. USE CONDUCTOR TABLE TO CALCULATE CONDUCTOR SIZE.
11. IRREVERSIBLE COMPRESSION TYPE CONNECTOR OR EXOTHERMIC WELD.
12. TELECOMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS BONDING CONDUCTOR(TBB) ROUTED IN CONDUIT TO BOND EACH TELECOMMUNICATIONS ROOM TO THE TMGB. USE CONDUCTOR TABLE TO CALCULATE CONDUCTOR SIZE. THE TBB SHALL BE A CONTINUOUS CONDUCTOR.

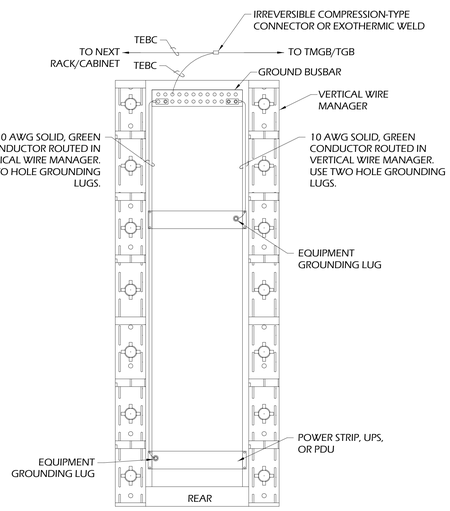




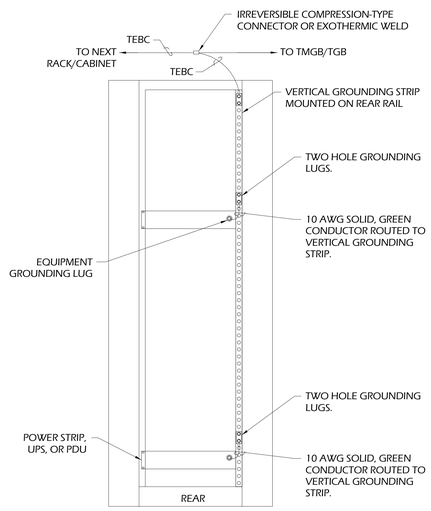


LUG SECTION





FREE STANDING RACK



FREE-STANDING EQUIPMENT CABINET

DETAIL N.T.S. 1 GROUNDING

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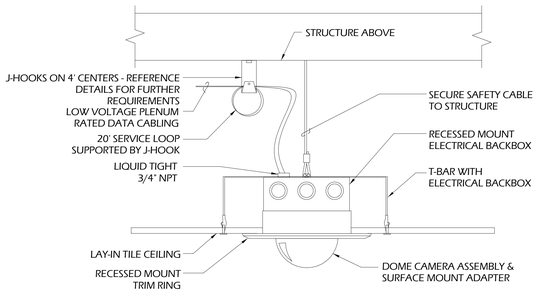
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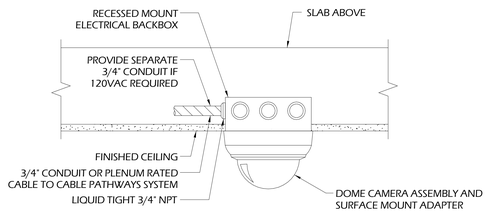
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LV-502

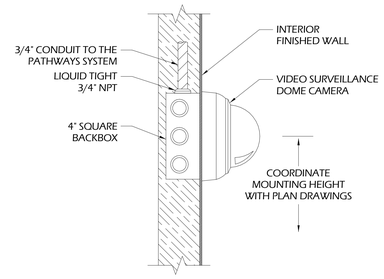
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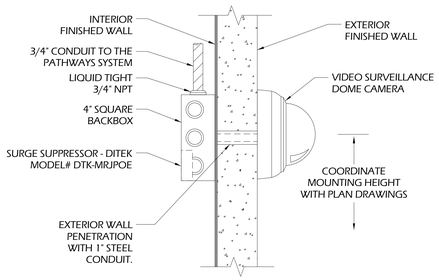
DETAIL NOT TO SCALE 1 INTERIOR LAY-IN TILE CEILING



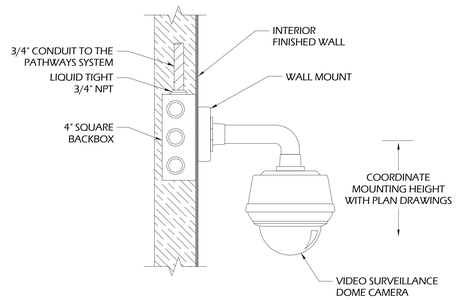
DETAIL NOT TO SCALE 2 INTERIOR GYP BOARD CEILING



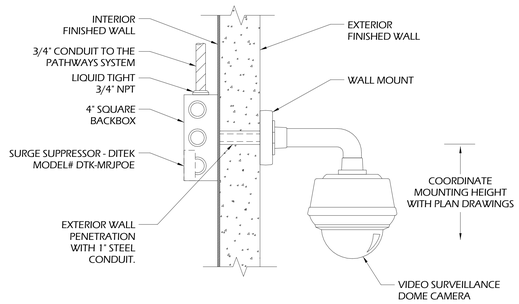
DETAIL NOT TO SCALE 3 INTERIOR WALL MOUNT



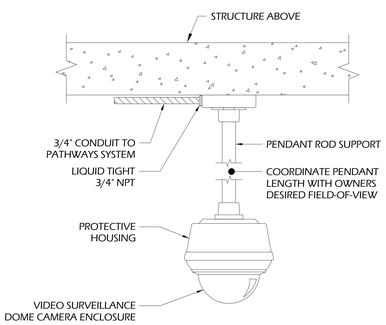
DETAIL NOT TO SCALE 4 EXTERIOR SURFACE MOUNT



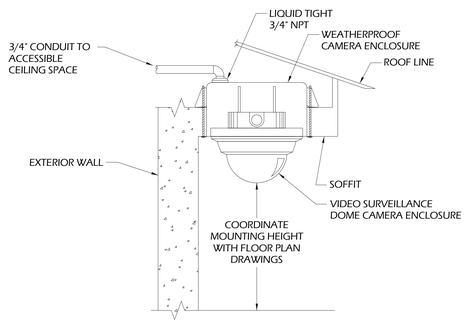
DETAIL NOT TO SCALE 5 INTERIOR/EXTERIOR PENDANT ARM



DETAIL NOT TO SCALE 6 EXTERIOR PENDANT ARM



DETAIL NOT TO SCALE 7 PENDANT ROD CEILING MOUNT



DETAIL NOT TO SCALE 8 EXTERIOR FIXED SOFFIT MOUNTED DOME CAMERA ENCLOSURE

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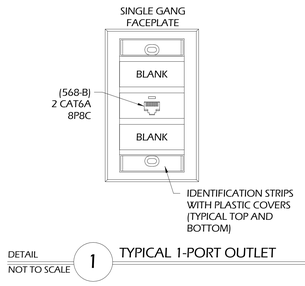
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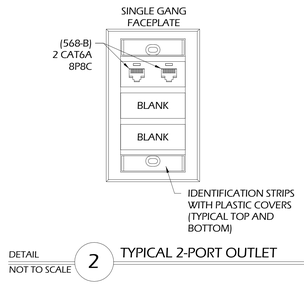
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LV-503

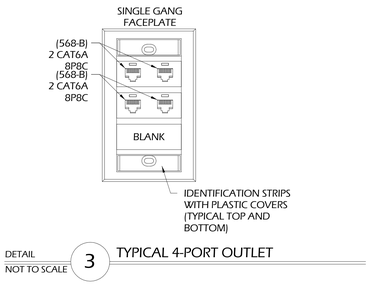
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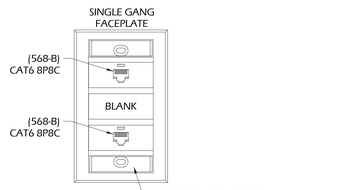
DETAIL NOT TO SCALE 1 TYPICAL 1-PORT OUTLET



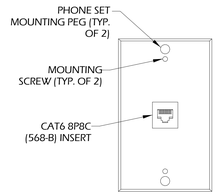
DETAIL NOT TO SCALE 2 TYPICAL 2-PORT OUTLET



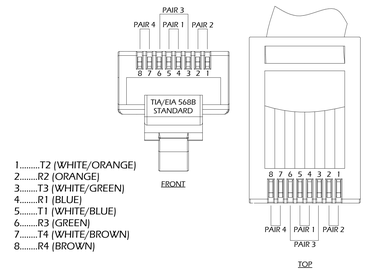
DETAIL NOT TO SCALE 3 TYPICAL 4-PORT OUTLET



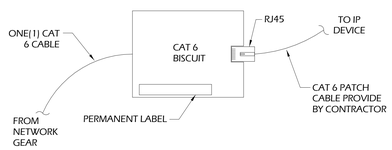
DETAIL NOT TO SCALE 4 TYPICAL DISPLAY OUTLET



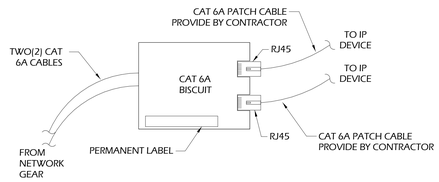
DETAIL NOT TO SCALE 5 WALL PHONE WITH MOUNTING PEGS



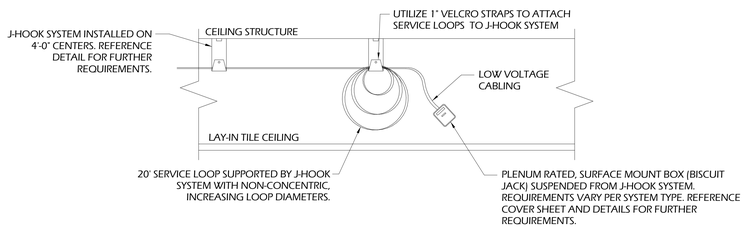
DETAIL NOT TO SCALE 6 RJ45 JACK TERMINATION



DETAIL NOT TO SCALE 7 VIDEO SURVEILLANCE CAMERA TYPICAL ETHERNET BISCUIT



DETAIL NOT TO SCALE 8 WIRELESS ACCESS POINT TYPICAL ETHERNET BISCUIT



GENERAL NOTES:

A. BISCUIT JACK SHALL BE PLENUM RATED, DUAL PORT, CATEGORY 6A TYPE FOR ALL WIRELESS ACCESS POINT LOCATIONS.

B. BISCUIT JACK SHALL BE PLENUM RATED, SINGLE PORT, CATEGORY 6A TYPE FOR ALL VIDEO SURVEILLANCE CAMERA LOCATIONS.

DETAIL NOT TO SCALE 9 SUSPENDED BISCUIT JACK

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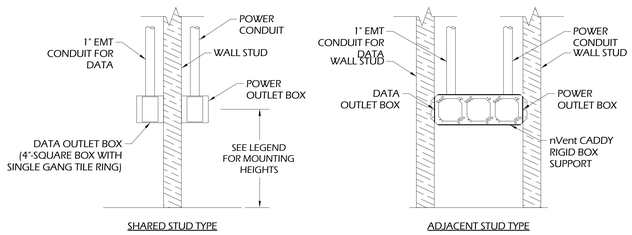
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LV-504

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GENERAL NOTES:

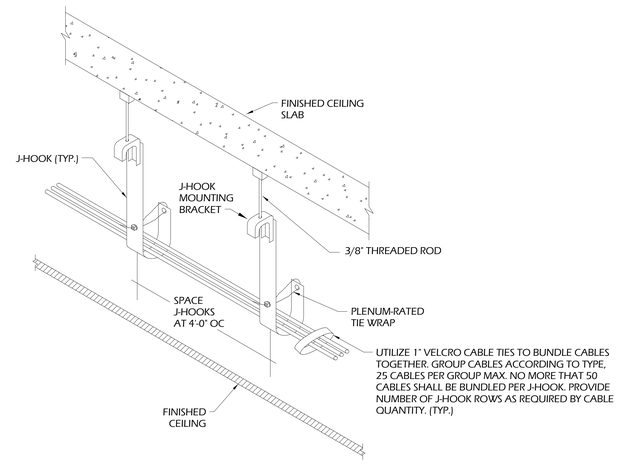
A. ALL DATA OUTLETS TO BE COORDINATED WITH ELECTRICAL POWER LOCATIONS. DATA OUTLETS SHALL BE MOUNTED ADJACENT TO POWER RECEPTACLES AT SAME HEIGHT.

B. DATA OUTLET SHALL EITHER BE MOUNTED ON OPPOSITE SIDE OF SHARED STUD AS POWER OR DATA SHALL BE MOUNTED ON ADJACENT STUD TO POWER IN SAME WALL CAVITY.

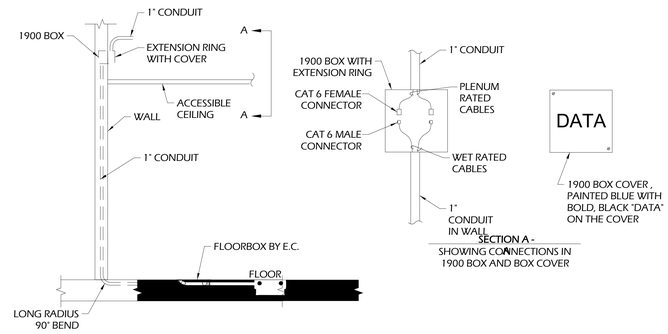
C. TYPICAL DATA OUTLET HEIGHT SHALL BE 18", UNLESS OTHERWISE NOTED.COORDINATE EXACT MOUNTING HEIGHTS AND ORIENTATION WITH ELECTRICAL AND ARCHITECTURAL PLAN.

D. CONTRACTOR TO VERIFY ALL DATA OUTLETS TO BE PROVIDED WITH ADJACENT POWER RECEPTACLE. SUBMIT RFI IF CONDITION DOES NOT EXIST.

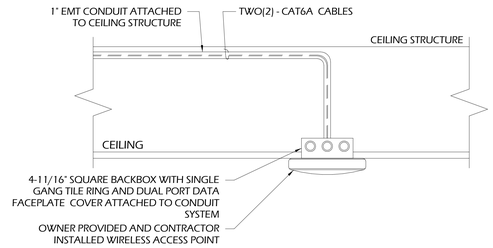
DETAILS N.T.S. **1** TYPICAL DATA OUTLET INSTALLATION REQUIREMENTS



DETAIL N.T.S. **2** ACCESSIBLE CEILING J-HOOKS



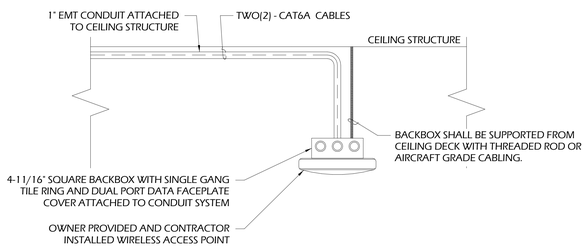
DETAIL N.T.S. **3** FLOOR BOX CABLE TRANSITION



GENERAL NOTES:

A. INSTALL SERVICE LOOP ON J-HOOK SYSTEM IN NEAREST ACCESSIBLE CEILING.

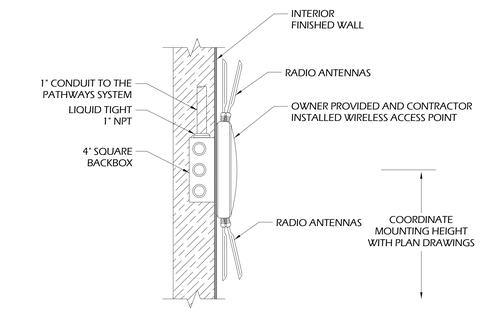
DETAIL NOT TO SCALE **4** SURFACE MOUNT (HARD CEILING) WIRELESS ACCESS POINT



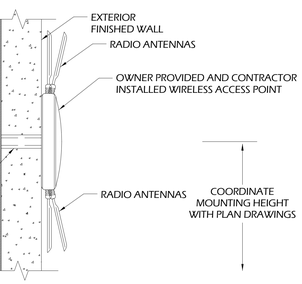
GENERAL NOTES:

A. INSTALL SERVICE LOOP ON J-HOOK SYSTEM IN NEAREST ACCESSIBLE CEILING.

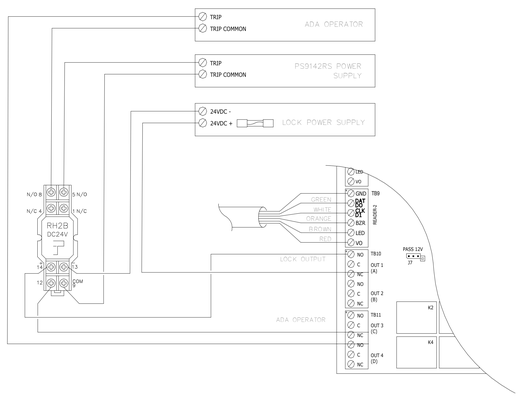
DETAIL NOT TO SCALE **5** OPEN CEILING WIRELESS ACCESS POINT



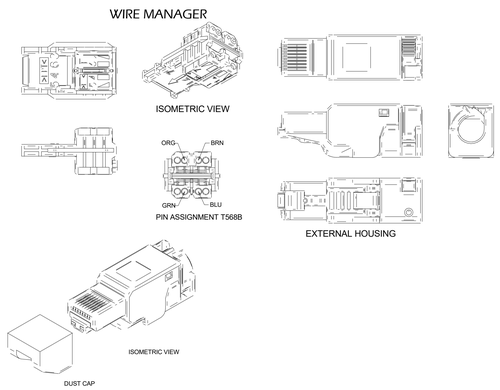
DETAIL NOT TO SCALE **6** INTERIOR WALL MOUNT WIRELESS ACCESS POINT



DETAIL NOT TO SCALE **7** EXTERIOR WALL MOUNT WIRELESS ACCESS POINT



ONE-LINE N.T.S. **8** ADA DOOR INTERFACE



ONE-LINE N.T.S. **9** FIELD TERMINABLE PLUG

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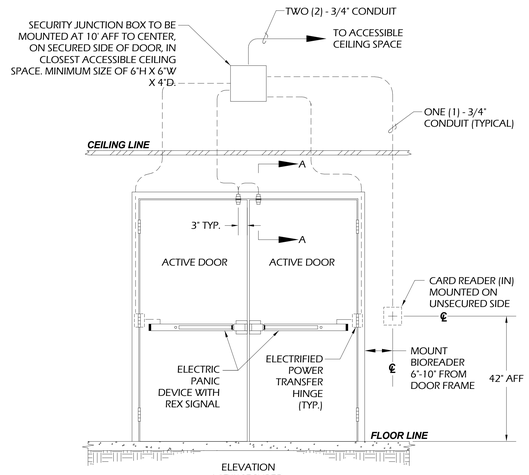
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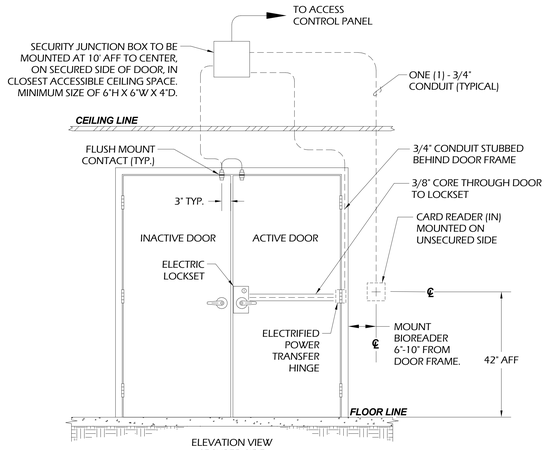
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ELEVATION
VIEW SECURED
SIDE
DOUBLE DOOR WITH
BIOMETRIC READER, DOOR CONTACTS, ELECTRIC PANIC DEVICES,
REX SIGNAL, POWER TRANSFER HINGES

NOTE: FOR FACIAL RECOGNITION READER MOUNT AT 48" AFF

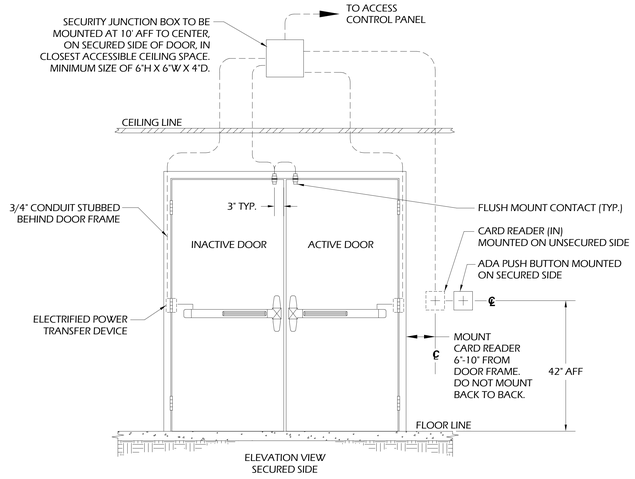
DETAIL NOT TO SCALE 1 DOUBLE DOOR DETAIL



ELEVATION VIEW
SECURED SIDE

DOUBLE DOOR WITH
CARD READER (IN), CARD READER (OUT),
DOOR CONTACTS, MORTISE LOCKSET, POWER TRANSFER HINGE

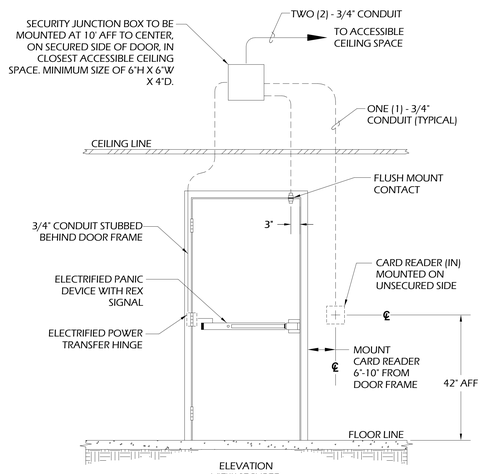
DETAIL NOT TO SCALE 2 DOUBLE DOOR DETAIL



ELEVATION VIEW
SECURED SIDE

DOUBLE DOOR WITH
CARD READER (IN), ADA DOOR OPERATOR PUSH-BUTTON,
DOOR CONTACTS, POWER TRANSFER DEVICE

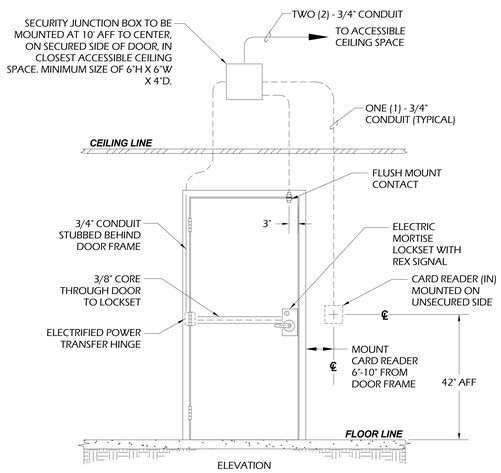
DETAIL NOT TO SCALE 3 DOUBLE DOOR DETAIL



ELEVATION
VIEW SECURED
SIDE
SINGLE DOOR WITH
BIOMETRIC READER, DOOR CONTACT, ELECTRIFIED PANIC DEVICE,
POWER TRANSFER DEVICE

NOTE: FOR FACIAL RECOGNITION READER MOUNT AT 48" AFF

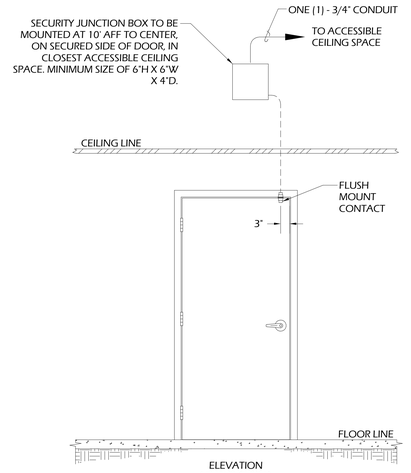
DETAIL NOT TO SCALE 4 SINGLE DOOR DETAIL



ELEVATION
VIEW SECURED
SIDE
SINGLE DOOR WITH
BIOMETRIC READER, DOOR CONTACT, MORTISE LOCKSET,
REX SIGNAL, POWER TRANSFER HINGE

NOTE: FOR FACIAL RECOGNITION READER MOUNT AT 48" AFF

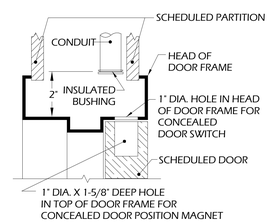
DETAIL NOT TO SCALE 5 SINGLE DOOR DETAIL



ELEVATION
VIEW SECURED
SIDE
SINGLE DOOR WITH
DOOR CONTACT

NOTE: FOR FACIAL RECOGNITION READER MOUNT AT 48" AFF

DETAIL NOT TO SCALE 6 SINGLE DOOR DETAIL



SECTION A-A
SHOWING FLUSH MOUNT MAGNETIC
DOOR CONTACT INSTALLATION
(TYPICAL FOR ALL DOOR POSITION SWITCHES)

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CAMERA SCHEDULE

CAMERA #	CAMERA MODEL	LENS TYPE	MOUNTING REQUIREMENTS	FIELD OF VIEW	REFERENCE SHEET	REFERENCE DETAIL
C-1.1	AXIS P3265-LV	2MP - 3.4-8.9MM	CEILING MOUNT	VESTIBULE 129	LV-201	1/LV-503
C-1.2	AXIS P3719-PLE	15MP - 3-6MM	PENDANT ARM	GREAT HALL 102	LV-201	5/LV-503
C-1.3	AXIS P3267-LV	5MP - 3-8MM	CEILING MOUNT	GIFT SHOP 103	LV-201	1/LV-503
C-1.4	AXIS P3719-PLE	15MP - 3-6MM	PENDANT ARM	GREAT HALL 102	LV-201	5/LV-503
C-1.5	AXIS M4308-PLE	12MP - 1.3MM	CEILING MOUNT	CAFE 104	LV-201	2/LV-503
C-1.6	AXIS P3265-LV	2MP - 3.4-8.9MM	CEILING MOUNT	VESTIBULE 101	LV-201	1/LV-503
C-1.7	AXIS M4308-PLE	12MP - 1.3MM	CEILING MOUNT	LARGE GALLERY 118 - CORRIDOR	LV-201	2/LV-503
C-1.8	AXIS M4308-PLE	12MP - 1.3MM	CEILING PENDANT MOUNT	LARGE GALLERY 118	LV-201	7/LV-503
C-1.9	AXIS M4308-PLE	12MP - 1.3MM	CEILING PENDANT MOUNT	LARGE GALLERY 118	LV-201	7/LV-503
C-1.10	AXIS M4308-PLE	12MP - 1.3MM	CEILING MOUNT	VESTIBULE 119	LV-201	2/LV-503
C-1.11	AXIS M4308-PLE	12MP - 1.3MM	CEILING PENDANT MOUNT	SAMLL GALLERY 120	LV-201	7/LV-503
C-1.12	AXIS M4308-PLE	12MP - 1.3MM	CEILING PENDANT MOUNT	MEDIUM GALLERY 121	LV-201	7/LV-503
C-1.13	AXIS M4308-PLE	12MP - 1.3MM	CEILING PENDANT MOUNT	MEDIUM GALLERY 121	LV-201	7/LV-503
C-1.14	AXIS P3265-LV	2MP - 3.4-8.9MM	WALL MOUNT	STAIR 100	LV-201	3/LV-503
C-1.15	AXIS P3267-LV	5MP - 3-8MM	WALL MOUNT	VESTIBULE STAGING 123	LV-201	3/LV-503
C-1.16	AXIS P3267-LV	5MP - 3-8MM	CEILING MOUNT	WARMING KITCHEN 128	LV-201	1/LV-503
C-S.1	AXIS P3267-LVE	5MP - 3-8MM	EXTERIOR PENDANT ARM	BUILDING EXTERIOR	LV-201	6/LV-503
C-S.2	AXIS P3267-LVE	5MP - 3-8MM	EXTERIOR PENDANT ARM	BUILDING EXTERIOR	LV-201	6/LV-503
C-S.3	AXIS P3267-LVE	5MP - 3-8MM	EXTERIOR PENDANT ARM	BUILDING EXTERIOR	LV-201	6/LV-503
C-S.4	AXIS P3267-LVE	5MP - 3-8MM	EXTERIOR PENDANT ARM	BUILDING EXTERIOR	LV-201	6/LV-503
C-S.5	AXIS P3267-LVE	5MP - 3-8MM	EXTERIOR PENDANT ARM	BUILDING EXTERIOR	LV-201	6/LV-503
C-S.6	AXIS P3267-LVE	5MP - 3-8MM	EXTERIOR PENDANT ARM	BUILDING EXTERIOR	LV-201	6/LV-503
C-S.7	AXIS P3267-LVE	5MP - 3-8MM	EXTERIOR PENDANT ARM	BUILDING EXTERIOR	LV-201	6/LV-503

SCHEDULE 1 SECURITY CAMERA SCHEDULE
N.T.S.

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SECURITY CAMERA SCHEDULE

LV-601

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AUDIO VISUAL SYSTEMS

MUSEUM OF THE MARINE

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111 MONTFORD POINT DRIVE, JACKSONVILLE, NC 28540

SUBMITTED ON: AUGUST 01, 2023

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR TO INSTALL PULL STRINGS IN ALL CONDUIT.
B. ELECTRICAL CONTRACTOR TO TERMINATE ALL CONDUIT STUB-OUT AND SLEEVES WITH PLASTIC BUSHINGS.
C. NO MORE THAN THREE(3) QUARTER BENDS OR 200 DEGREES OF CONDUIT SHALL BE INSTALLED BETWEEN PULL BOXES.
D. GENERAL CONTRACTOR TO PROVIDE WALL BLOCKING AT ALL FLAT PANEL LOCATIONS.

ABBREVIATION LEGEND:

A. LAN - LOCAL AREA NETWORK
B. NET - FACILITY COMPUTER NETWORK
C. RJ45 - EIGHT POSITION MODULAR PLUG AND JACK UTILIZED FOR TWISTED-PAIR CABLE CONNECTIONS
D. SC - FIBER OPTIC CABLE CONNECTOR FORM FACTOR
E. VOIP - VOICE OVER INTERNET PROTOCOL (IP) TELEPHONE SYSTEM
F. POE - POWER OVER ETHERNET
G. HDMI - HIGH-DEFINITION MULTIMEDIA INTERFACE DIGITAL VIDEO STANDARD
H. AEC - ACOUSTIC ECHO CANCELING MICROPHONE INPUT
I. PGM - PROGRAM AUDIO OR VIDEO
J. RS232 - UNBALANCED SERIAL CONTROL INTERFACE STANDARD
K. CNTR - CONTROL INPUT OR OUTPUT
L. OFE - OWNER FURNISHED EQUIPMENT
M. DS - DIGITAL SIGNAGE DISPLAY

DEVICE LEGEND:

PJ — CEILING MOUNTED VIDEO PROJECTOR SEE FLOOR PLANS FOR ANY REQUIREMENTS FOR A CEILING ENCLOSURE, - COORDINATE LOCATION WITH ARCHITECTURAL CEILING. COORDINATE THE REQUIREMENTS FOR ONE (1) DEDICATED 120VAC @ 20 AMP POWER CIRCUIT ADJACENT TO PROJECTOR LOCATION.
- COORDINATE WITH TELECOM CONTRACTOR FOR DATA & CATV TERMINATIONS.

FLAT PANEL DISPLAY MOUNTING SYSTEM WITH INTEGRAL SPEAKERS (IF REQUIRED, SEE FLOOR PLANS). SEE MOUNTED HEIGHTS AT XX"AFF TO CENTER OF SCREEN.- SIZE DISPLAY AS INDICATED ON FLOOR PLANS. COORDINATE EXACT LOCATION AS INDICATED ON FLOOR PLANS. COORDINATE MOUNTING WITH ARCHITECTURAL AND FURNITURE LOCATIONS. SEE FLOOR PLANS FOR POWER, WALL BLOCKING, AND INTERFACE REQUIREMENTS.

S# — AUDIO VISUAL CEILING SPEAKER PROVIDED AND INSTALLED BY AUDIO/VISUAL CONTRACTOR. SPEAKER TO BE WHITE IN COLOR, CONFIRM WITH ARCHITECT.
- #SUBSCRIPT INDICATES MODEL TYPE. REFERENCE FLOOR PLAN & DETAILS FOR MODEL TYPE.

AV FB# — AUDIO VISUAL INTERFACE CONNECTION FLOOR BOX. REFERENCE FLOOR PLANS FOR LOCATION.
- #SUBSCRIPT INDICATES MODEL TYPE. REFERENCE FLOOR PLAN & DETAILS FOR MODEL TYPE

CUB# — AV CABLE ENCLOSURE. REFERENCE FLOOR PLANS FOR LOCATION.
- #SUBSCRIPT INDICATES MODEL TYPE. REFERENCE FLOOR PLAN & DETAILS FOR MODEL TYPE.
- DATA CONTRACTOR TO PROVIDE TWO DATA CIRCUITS TO ENCLOSURE LOCATION.

CTL# — WALL OR TABLE MOUNTED CONTROL PANEL. REFERENCE FLOOR PLANS FOR LOCATION.
- #SUBSCRIPT INDICATES MODEL TYPE. REFERENCE FLOOR PLAN & DETAILS FOR MODEL TYPE.

ANT# — WIRELESS MICROPHONE ANTENNA. REFERENCE FLOOR PLAN & CEILING PLANS FOR REQUIREMENTS. INSTALL BELOW CEILING TILE USING TILE BRIDGE IN GRID OR SIMILAR MOUNTING DEVICE.

CAM# — PAN/TILT/ZOOM VIDEO CAMERA. REFERENCE FLOOR PLANS FOR LOCATION.

ELECTRICAL CONDUIT ROUGH-IN LEGEND:

PJ — CEILING MOUNTED VIDEO PROJECTOR. SEE FLOOR PLANS FOR ANY REQUIREMENTS FOR A CEILING ENCLOSURE. PROVIDE ONE (1) DEDICATED 120VAC @ 15 AMP POWER CIRCUIT TO VIDEO PROJECTOR LOCATION IN CEILING. PROVIDE CONDUIT AS SHOWN ON PLANS.

FLAT PANEL DISPLAY MOUNTING SYSTEM WITH SPEAKERS (IF REQUIRED) SEE FLOOR PLANS FOR POWER AND INTERFACE REQUIREMENTS. PROVIDE A POWER RECEPTACLE AT EACH DISPLAY LOCATION.

S# — AUDIO VISUAL CEILING SPEAKER. AUDIO VISUAL CONTRACTOR TO PROVIDE MANUFACTURER'S BACK BOX AND MOUNTING ACCESSORIES FOR ALL LOCATIONS AS SHOWN ON PLANS. COORDINATE MOUNTING LOCATION WITH MECHANICAL AND LIGHTING. INSTALLS IN CEILING GRID.
- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 3/4" CONDUIT BETWEEN SPEAKER BOXES IN HARD CEILING SPACES AND/OR LOCATIONS THAT ARE INACCESSIBLE. ROUTE CONDUIT TO ACCESSIBLE CEILING SPACES VIA PASS-THRU SLEEVES.

AV FB1 — AUDIO VISUAL INTERFACE CONNECTION RAISED ACCESS FLOOR BOX PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. FLOOR BOX TO BE FSR, INC. FL-500P-6-B WITH FL-500P-B-BLK COVER AND TO BE MOUNTED UNDER CONFERENCE ROOM TABLE,/LECTERN AS SHOWN ON PLANS. AV CONDUITS TO TERMINATE INTO LOW VOLTAGE SIDE OF FLOOR BOX.
- DATA CONTRACTOR TO PROVIDE TWO DATA CIRCUITS TO FLOOR BOX LOCATION.
- AUDIO VISUAL CONTRACTOR TO PROVIDE INTERCONNECT PLATE FOR AUDIO VISUAL AND NETWORK CONNECTIONS.
- PROVIDE WITH COVER. COORDINATE COVER SELECTION WITH ARCHITECT/OWNER. PROVIDE WITH POUR PAN ACCESSORY.

120 VOLT DUPLEX RECEPTACLE NEMA 5-20R. PROVIDED BY ELECTRICAL CONTRACTOR. SEE PLANS AND DETAILS FOR LOCATIONS. ELEVATION IS AS NOTED ON PLANS.

D# — DATA OUTLET. BACK BOX PROVIDED BY ELECTRICAL CONTRACTOR. SEE PLANS AND DETAILS FOR LOCATIONS AND QUANTITIES. ELEVATION IS NOTED ON PLANS. REFERENCE TELECOM DRAWINGS FOR ROUGH-IN REQUIREMENTS.
- #SUBSCRIPT DETAILS NUMBER OF DATA DROPS PER LOCATION.

DS — DIGITAL SIGNAGE OUTLET. ELECTRICAL CONTRACTOR SEE PLANS AND DETAILS FOR LOCATIONS AND QUANTITIES. REFERENCE TELECOM DRAWINGS FOR ROUGH-IN REQUIREMENTS.

CTL# — WALL OR LECTERN MOUNTED CONTROL PANEL. REFERENCE FLOOR PLANS FOR LOCATION.
- CTL 3: ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE 2-GANG BACK BOX MOUNTED AT 46" AFF TO CENTER WITH CONDUITS AS SHOWN ON PLANS.

CAM1 — WALL MOUNTED PAN/TILT/ZOOM VIDEO CAMERA. REFERENCE FLOOR PLANS FOR LOCATION.
- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE TWO-GANG BACK BOX. SEE FLOOR PLANS FOR MOUNTING HEIGHT LOCATION. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONDUITS AS SHOWN ON PLANS.

CAM2 — CEILING MOUNTED PAN/TILT/ZOOM CAMERA. REFERENCE FLOOR PLANS FOR LOCATION.

ANT — CEILING MOUNTED WIRELESS MICROPHONE ANTENNA

SHEET LIST:

AV-000	COVER PAGE
AV-201	LEVEL 1 - FLOOR PLAN
AV-201.1	LEVEL 1 - FLOOR PLAN - RCP
AV-301	LARGE SCALES
AV-302	LARGE SCALES
AV-401	ONE-LINE DIAGRAMS
AV-402	ONE-LINE DIAGRAMS
AV-403	ONE-LINE DIAGRAMS
AV-404	ONE-LINE DIAGRAMS
AV-501	DETAILS
AV-601	DISPLAY SCHEDULE

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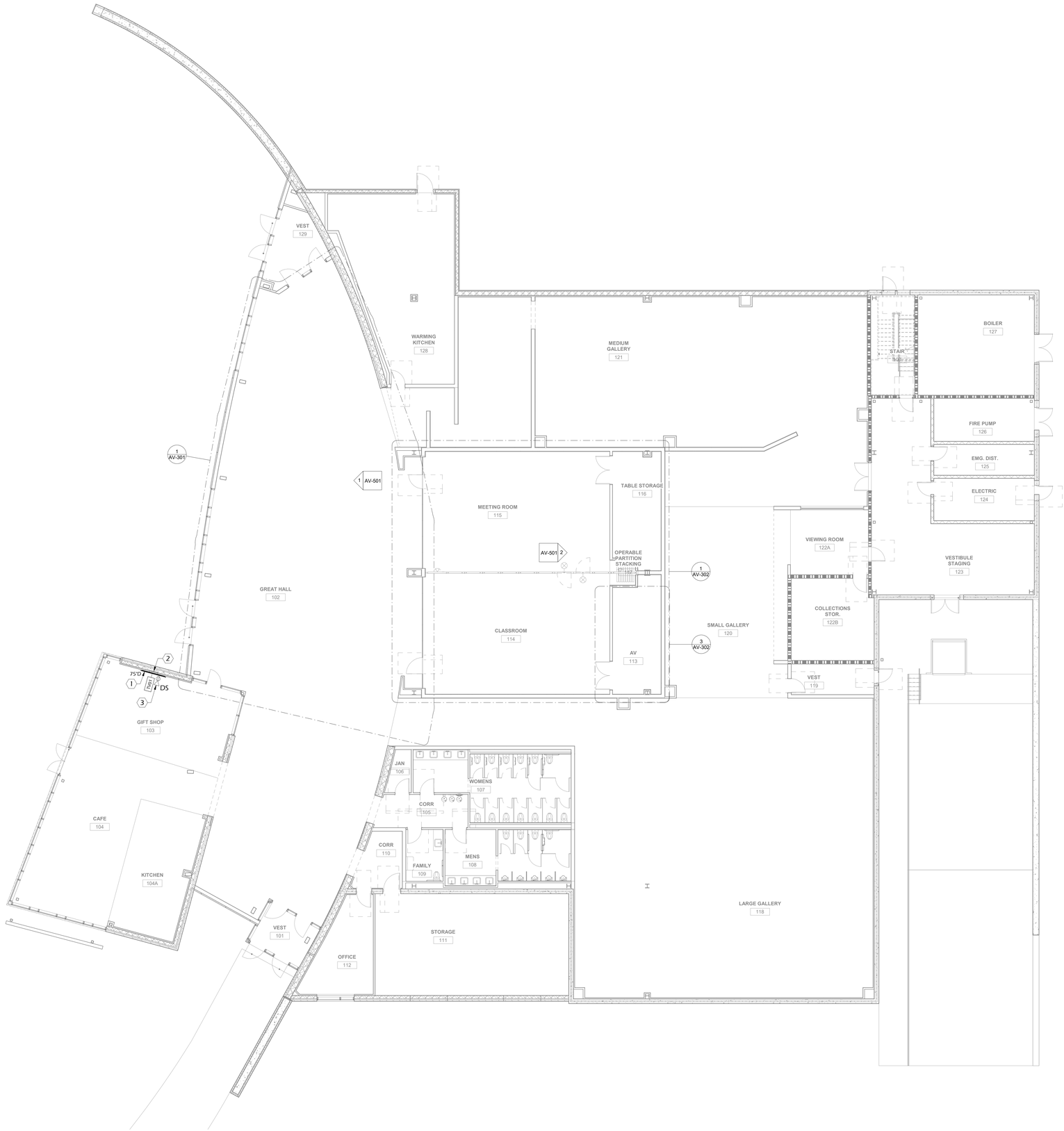
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COVER PAGE

AV-000

ISSUE DATE: 08-01-2023
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FLOOR PLAN 1 LEVEL 1 - AV
1/8" = 1'-0"

KEY NOTES:

1. FLAT PANEL DISPLAY LOCATION. AUDIO VISUAL CONTRACTOR TO PROVIDE AND INSTALL FLAT PANEL DISPLAY. PROVIDE WITH MOUNTING ACCESSORIES FOR ALL LOCATIONS AS SHOWN ON PLANS. GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR DISPLAY.
2. AUDIO VISUAL SHARED IN-WALL BACK BOX. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL BACK BOX FSR 320XL, FLUSH MOUNTED AT LOCATION SHOWN ON PLANS. PROVIDE (1) 1-1/4" CONDUIT TO NEAREST ACCESSIBLE CEILING.
3. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE 120V/20A POWER TO FSR 320XL IN-WALL BACK BOX FROM A 20A CIRCUIT IN HOUSE PANEL. SEE ELECTRICAL DRAWINGS FOR CIRCUITING. TELECOM CONTRACTOR TO PROVIDE AND INSTALL TWO(2) DATA OUTLETS IN ONE GANG INSERT OF FSR IN-WALL BACK BOX

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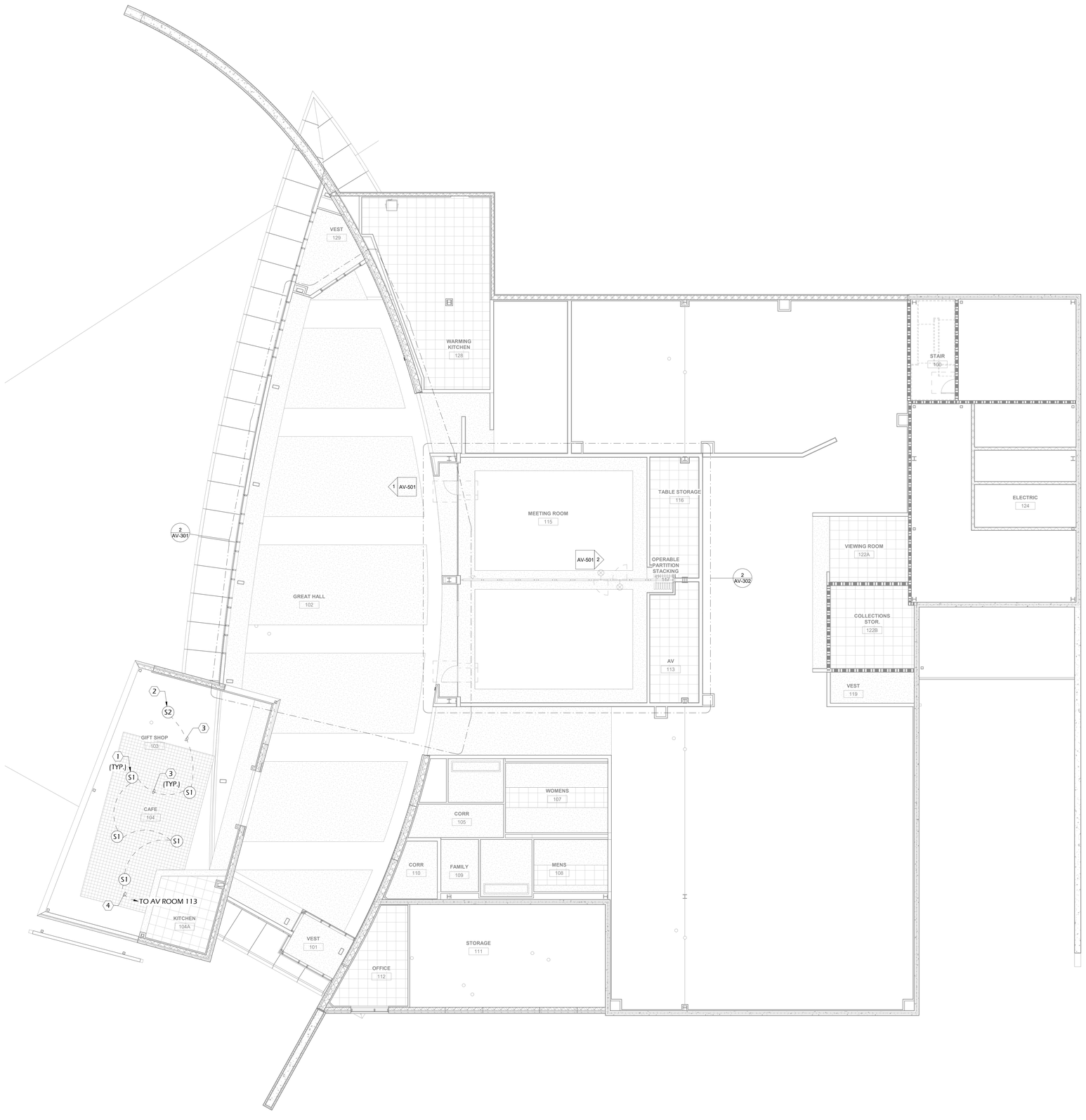
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LEVEL 1 - FLOOR PLAN

AV-201

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FLOOR PLAN 1 — LEVEL 1 -FLOOR PLAN - RCP

1/8" = 1'-0"

KEY NOTES:

1. CEILING MOUNTED SPEAKER. AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL IN-CEILING MOUNTED SPEAKER AT LOCATION SHOWN.
2. CEILING MOUNTED PENDANT SPEAKER. AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL IN-CEILING MOUNTED SPEAKER AT LOCATION SHOWN.
3. CABLE PROVIDED AND INSTALLED IN J-HOOKS ON 4' CENTERS BY AUDIO VISUAL CONTRACTOR. CABLE TO BE INSTALLED FREE OF SPLICES BETWEEN DEVICES AND SHALL BE PLENUM RATED. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 3/4" CONDUIT WITHIN ALL OPEN CEILING, NON-ACCESSIBLE CEILING, OR HARD CEILING AREAS. COORDINATE WITH ARCHITECTURAL DOCUMENTS TO VERIFY EXACT LOCATIONS.
4. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE (1) 1-1/4" CONDUIT ROUTED TO AV ROOM 113 FOR SPEAKER CABLING.

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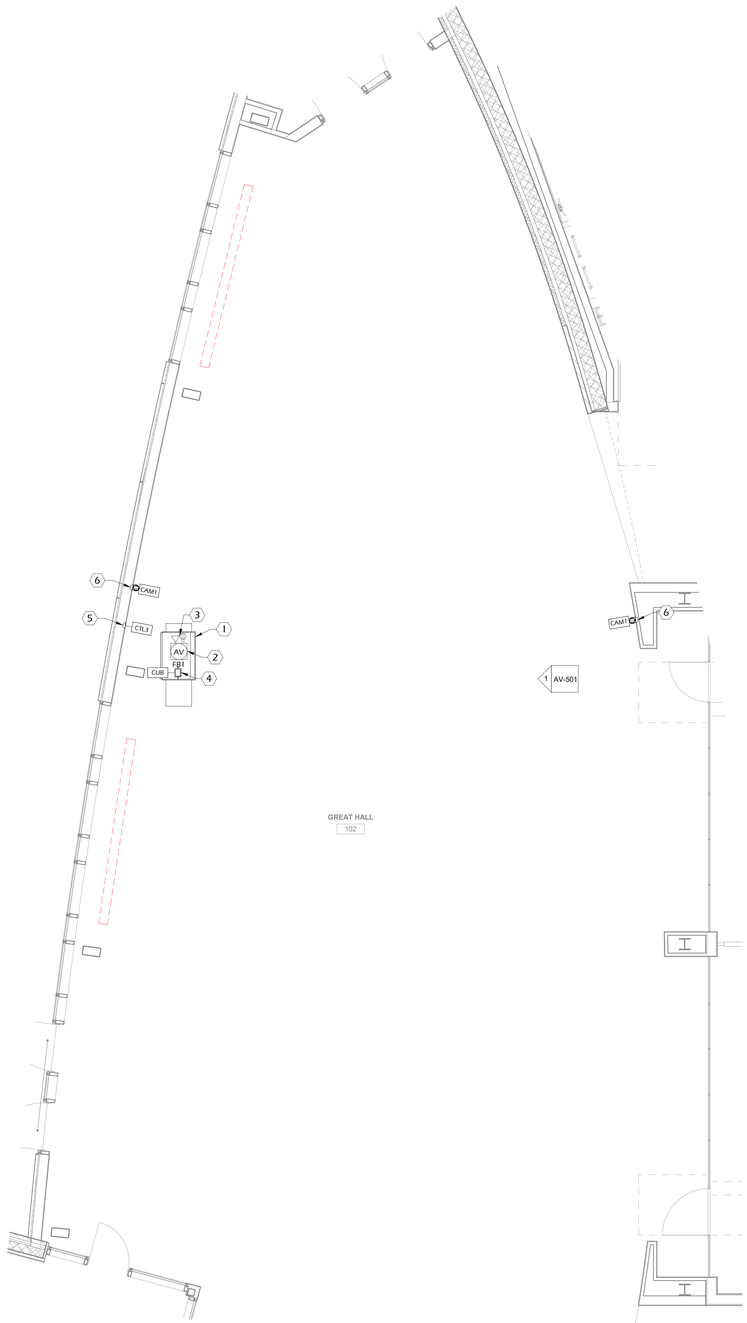
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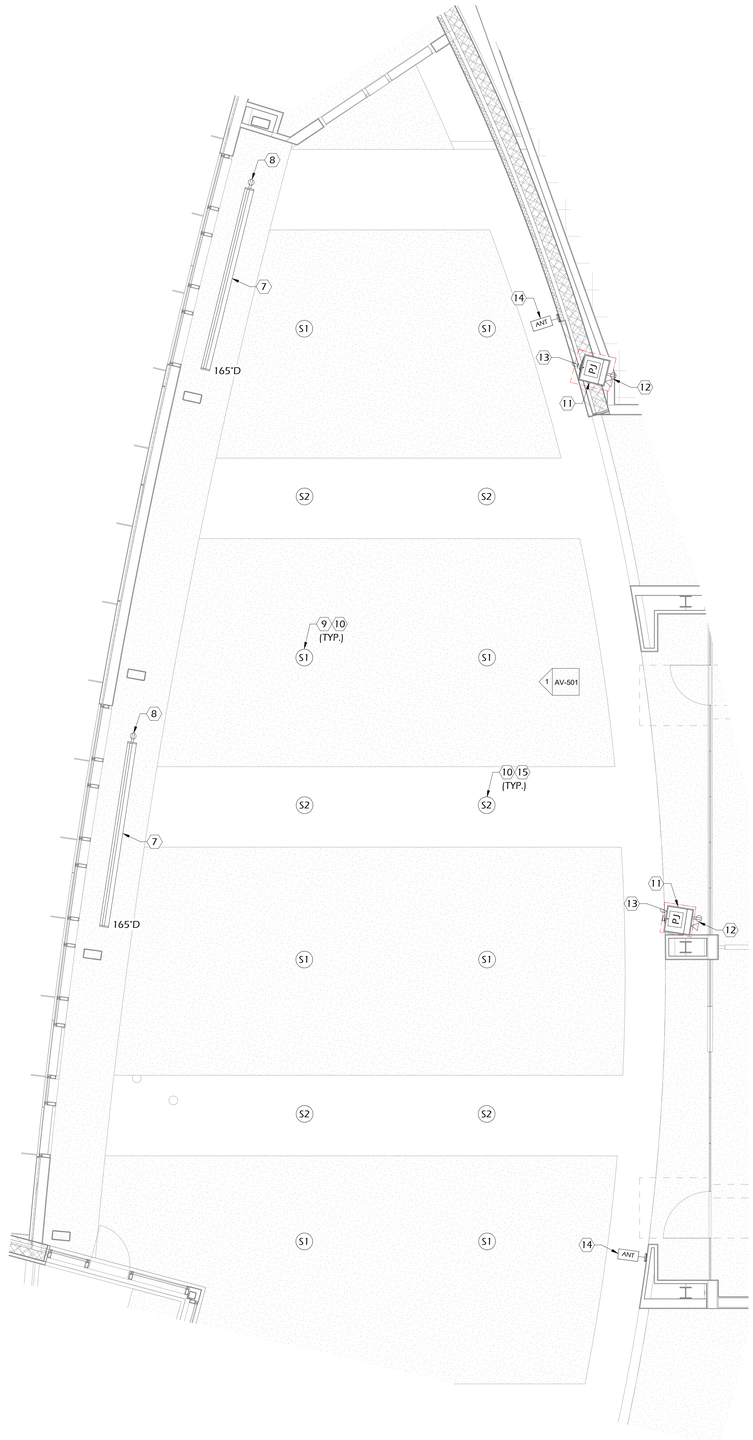
LEVEL 1 - FLOOR PLAN - RCP

AV-201.1

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LARGE SCALE 1/4" = 1'-0" 1 GREAT HALL 102



LARGE SCALE 1/4" = 1'-0" 2 GREAT HALL 102

KEY NOTES:

1. LECTERN PROVIDED AND INSTALLED BY AUDIO VISUAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE LECTERN COLOR AND FINISH WITH ARCHITECT PRIOR TO ORDERING.
2. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL RECESSED FLOOR BOX AS SHOWN ON PLANS. REFERENCE AUDIO VISUAL LEGEND FOR ADDITIONAL INFORMATION ON FLOOR BOX. ROUTE (2) 1-1/4" CONDUIT FROM RECESSED FLOOR BOX TO AV RACK IN AV ROOM 113.
3. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 120V/20A DUPLEX RECEPTACLE FROM A DEDICATED 20A CIRCUIT IN HOUSE POWER PANEL. REFER TO ELECTRICAL DRAWINGS FOR CIRCUITING. TELECOM CONTRACTOR TO PROVIDE AND INSTALL TWO (2) DATA OUTLETS ADJACENT TO POWER DUPLEX IN RECESSED BOX.
4. AUDIO VISUAL CONTRACTOR TO PROVIDE AND INSTALL AV CABLE ENCLOSURE WITH FLIP LID AND TO COORDINATE WITH FURNITURE CONTRACTOR/ARCHITECT FOR INSTALLATION IN TABLETOP / LECTERN. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN. AUDIO VISUAL CONTRACTOR TO PROVIDE AND INSTALL CABLE MANAGEMENT SYSTEM CONNECTING TABLE/LECTERN TO FLOOR BOX. AV TABLE/LECTERN TO CONNECT TO FLOOR BOX WITH PLUGGABLE UMBILICAL ENCASED IN BLACK EXPANDABLE SLEEVING.
5. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE (1) 2-GANG BACK BOX, FLUSH MOUNTED IN WALL AT 46" AFF FOR AUDIO VIDEO SYSTEM CONTROL. PROVIDE AND INSTALL ONE (1) 1" CONDUIT FROM BACK BOX TO CABLE PATHWAY SYSTEM TO AV ROOM 113.
6. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE (1) 2-GANG BACK BOX, FLUSH MOUNTED IN WALL AT 102" AFF FOR AUDIO VIDEO CAMERA (CAM-1). PROVIDE AND INSTALL ONE (1) 1" CONDUIT FROM BACK BOX TO CABLE PATHWAY SYSTEM TO AV ROOM 113.
7. CEILING RECESSED MOTORIZED FRONT PROJECTION SCREEN. GENERAL CONTRACTOR SHALL INSTALL CEILING RECESSED MOTORIZED FRONT PROJECTION SCREEN PROVIDED BY AUDIO VISUAL CONTRACTOR. REFERENCE ELEVATIONS FOR DETAILS. AUDIO VISUAL CONTRACTOR TO FIELD VERIFY MEASUREMENTS PRIOR TO ORDERING PROJECTION SCREEN TO ENSURE PROPER PROJECTOR-SCREEN GEOMETRY. FIELD VERIFY APPROPRIATE EXTRA ROLL OUT/DROP ABOVE ACTIVE VIEWING AREA OF SCREEN.
8. ELECTRICAL CONTRACTOR TO PROVIDE A 120V HARD-WIRED CONNECTION TO JUNCTION BOX IN END OF VIDEO SCREEN CASE. SEE ELECTRICAL DRAWINGS FOR CIRCUITING. SCREEN MOTOR DRAWS 2.4 AMPS MAX.
9. CEILING MOUNTED SPEAKER. AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL IN-CEILING MOUNTED SPEAKER AT LOCATION SHOWN.
10. CABLE PROVIDED AND INSTALLED IN J-HOOKS ON 4' CENTERS BY AUDIO VISUAL CONTRACTOR. CABLE TO BE INSTALLED FREE OF SPLICES BETWEEN DEVICES AND SHALL BE PLENUM RATED. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 3/4" CONDUIT WITHIN ALL OPEN CEILING, NON-ACCESSIBLE CEILING, OR HARD CEILING AREAS. COORDINATE WITH ARCHITECTURAL DOCUMENTS TO VERIFY EXACT LOCATIONS.
11. RECESSED WALL MOUNTED VIDEO PROJECTOR SHALL BE PROVIDED AND INSTALLED BY AUDIO VISUAL CONTRACTOR.
12. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A 220V CONNECTION TO INCLUDED RECEPTACLE IN PLENUM BOX. TELECOM CONTRACTOR TO PROVIDE AND INSTALL ONE (1) DATA OUTLET FOR PROJECTOR ADJACENT TO POWER OUTLET.
13. AUDIO VISUAL CONTRACTOR TO COORDINATE ROUGH-IN FOR RECESSED WALL MOUNTED PROJECTOR WITH ARCHITECT.
14. AUDIO VISUAL CONTRACTOR TO PROVIDE AND INSTALL WIRELESS MICROPHONE ANTENNA AT 12'-6" AFF AT LOCATION SHOWN.
15. PENDANT MOUNTED SPEAKER. AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL PENDANT MOUNTED SPEAKER AT LOCATION SHOWN.

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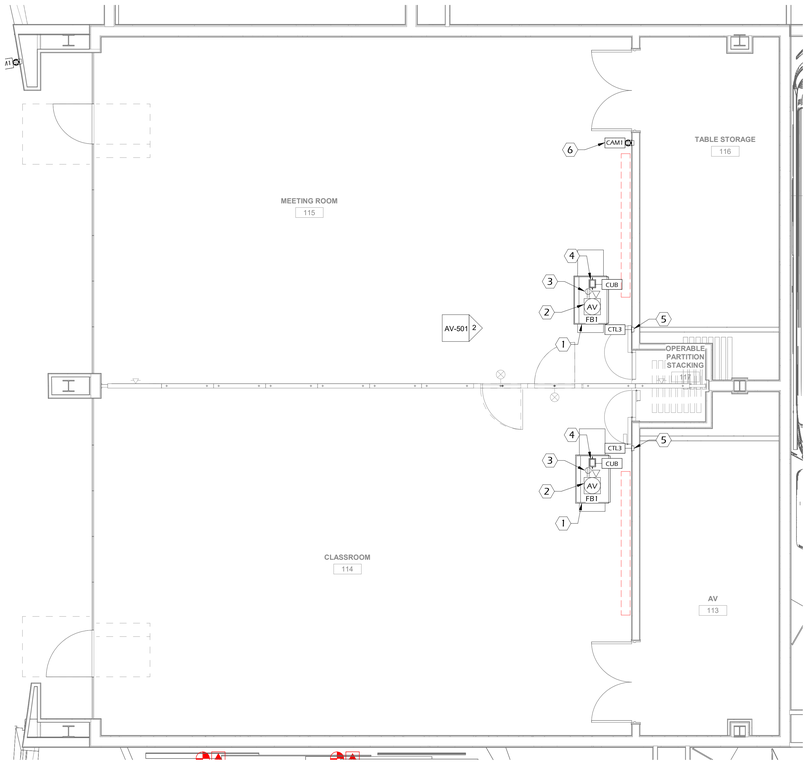
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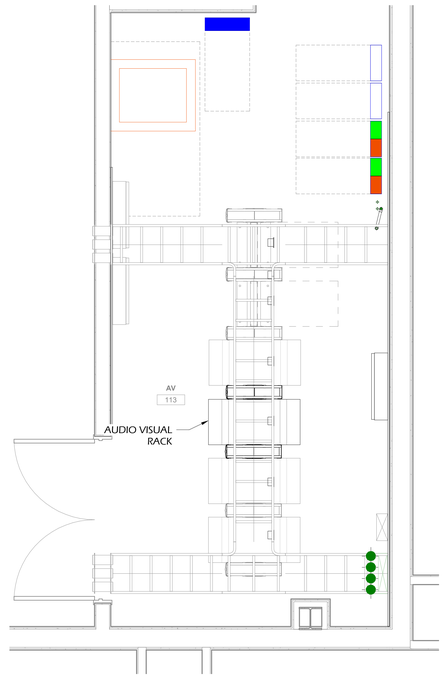
LARGE SCALES

AV-301

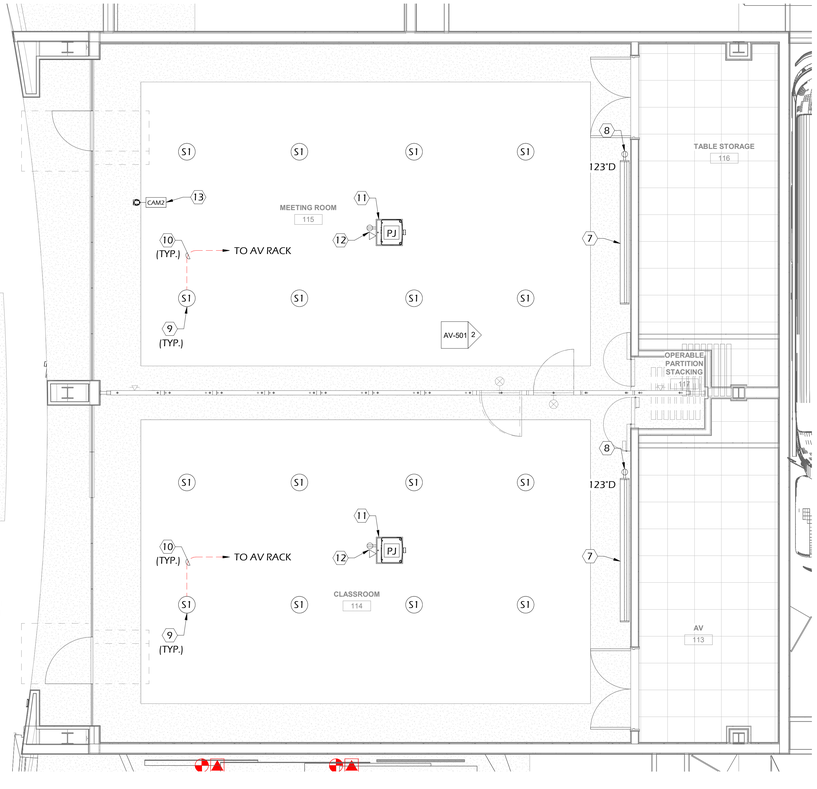
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LARGE SCALE 1/4" = 1'-0" — 1 — CLASSROOM 114 & MEETING ROOM 115



LARGE SCALE 1/2" = 1'-0" — 3 — AV ROOM 113



LARGE SCALE 1/4" = 1'-0" — 2 — CLASSROOM 114 & MEETING ROOM 115

KEY NOTES:

1. LECTERN PROVIDED AND INSTALLED BY AUDIO VISUAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE LECTERN COLOR AND FINISH WITH ARCHITECT PRIOR TO ORDERING.
2. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL RECESSED FLOOR BOX AS SHOWN ON PLANS. REFERENCE AUDIO VISUAL LEGEND FOR ADDITIONAL INFORMATION ON FLOOR BOX. ROUTE (2) 1-1/4" CONDUIT FROM RECESSED FLOOR BOX TO AV RACK IN AV ROOM 113.
3. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 120V/20A DUPLEX RECEPTACLE FROM A DEDICATED 20A CIRCUIT IN HOUSE POWER PANEL. REFER TO ELECTRICAL DRAWINGS FOR CIRCUITING. TELECOM CONTRACTOR TO PROVIDE AND INSTALL TWO (2) DATA OUTLETS ADJACENT TO POWER DUPLEX IN RECESSED BOX.
4. AUDIO VISUAL CONTRACTOR TO PROVIDE AND INSTALL AV CABLE ENCLOSURE WITH FLIP LID AND TO COORDINATE WITH FURNITURE CONTRACTOR/ARCHITECT FOR INSTALLATION IN TABLETOP / LECTERN. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN. AUDIO VISUAL CONTRACTOR TO PROVIDE AND INSTALL CABLE MANAGEMENT SYSTEM CONNECTING TABLE/LECTERN TO FLOOR BOX. AV TABLE/LECTERN TO CONNECT TO FLOOR BOX WITH PLUGGABLE UMBILICAL ENCASED IN BLACK EXPANDABLE SLEEVING.
5. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE (1) 2-GANG BACK BOX, FLUSH MOUNTED IN WALL AT 46" AFF FOR AUDIO VIDEO SYSTEM CONTROL. PROVIDE AND INSTALL ONE (1) 1" CONDUIT FROM BACK BOX TO CABLE PATHWAY SYSTEM TO AV ROOM 113.
6. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE (1) 2-GANG BACK BOX, FLUSH MOUNTED IN WALL AT 102" AFF FOR AUDIO VIDEO CAMERA (CAM-1). PROVIDE AND INSTALL ONE (1) 1" CONDUIT FROM BACK BOX TO CABLE PATHWAY SYSTEM TO AV ROOM 113.
7. CEILING RECESSED MOTORIZED FRONT PROJECTION SCREEN. GENERAL CONTRACTOR SHALL INSTALL CEILING RECESSED MOTORIZED FRONT PROJECTION SCREEN PROVIDED BY AUDIO VISUAL CONTRACTOR. REFERENCE ELEVATIONS FOR DETAILS. AUDIO VISUAL CONTRACTOR TO FIELD VERIFY MEASUREMENTS PRIOR TO ORDERING PROJECTION SCREEN TO ENSURE PROPER PROJECTOR-SCREEN GEOMETRY. FIELD VERIFY APPROPRIATE EXTRA ROLL OUT/DROP ABOVE ACTIVE VIEWING AREA OF SCREEN.
8. ELECTRICAL CONTRACTOR TO PROVIDE A 120V HARD-WIRED CONNECTION TO JUNCTION BOX IN END OF VIDEO SCREEN CASE. SEE ELECTRICAL DRAWINGS FOR CIRCUITING. SCREEN MOTOR DRAWS 2.4 AMPS MAX.
9. CEILING MOUNTED SPEAKER. AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL IN-CEILING MOUNTED SPEAKER AT LOCATION SHOWN.
10. CABLE PROVIDED AND INSTALLED IN J-HOOKS ON 4' CENTERS BY AUDIO VISUAL CONTRACTOR. CABLE TO BE INSTALLED FREE OF SPLICES BETWEEN DEVICES AND SHALL BE PLENUM RATED. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 3/4" CONDUIT WITHIN ALL OPEN CEILING, NON-ACCESSIBLE CEILING, OR HARD CEILING AREAS. COORDINATE WITH ARCHITECTURAL DOCUMENTS TO VERIFY EXACT LOCATIONS.
11. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL AN FSR MODEL CB-22P CEILING BOX WITH OPTIONAL FAN KIT FROM FSR INC. PROJECTOR INTERFACE CEILING BOX IS TO INCLUDE AN INDUSTRY STANDARD 1 1/2" NPT FITTING TO HANG UP TO A 50LB PROJECTOR. REFERENCE DETAILS FOR TYPES AND QUANTITIES OF CONNECTIONS.
12. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A 120V CONNECTION TO INCLUDE RECEPTACLE IN CEILING BOX FROM DEDICATED 20A CIRCUIT IN HOUSE POWER PANEL. TELECOM CONTRACTOR TO PROVIDE AND INSTALL DATA OUTLETS ADJACENT TO POWER DUPLEX IN CEILING BOX. SEE TELECOM DRAWINGS FOR ADDITIONAL INFORMATION.
13. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE (1) 2-GANG BACK BOX FOR CEILING MOUNTED AUDIO VIDEO CAMERA (CAM-2). PROVIDE AND INSTALL ONE (1) 1" CONDUIT FROM BACK BOX TO CABLE PATHWAY SYSTEM TO AV ROOM 113.

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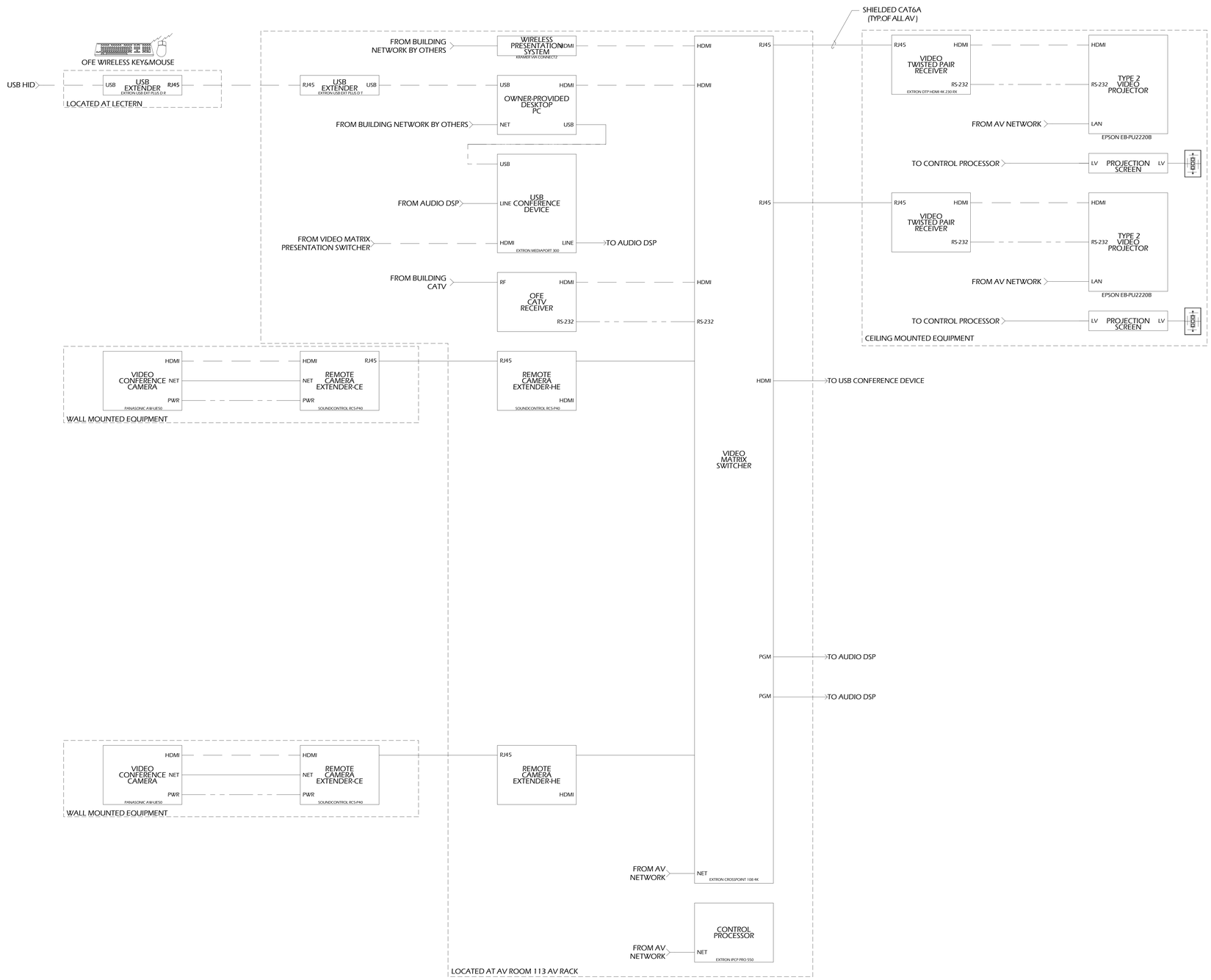
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LARGE SCALES

AV-302

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NOTES:

A. REFERENCE FLOOR PLANS FOR LOCATIONS.

B. AUDIO VISUAL ROUGH-IN FOR EQUIPMENT SHALL BE PROVIDED AND INSTALLED AS DESIGNED.

C. GREEN NETWORK JACK AND SHIELDED CAT 6A FOR ALL AV NETWORK.

PROGRAMMING NOTES:

A. AUDIO VISUAL CONTRACTOR TO DETERMINE FINAL CONTROL FUNCTION WITH OWNER PRIOR TO DEVICE PROGRAMMING PHASE.

B. ALL EQUIPMENT EXCEPT CONTROL PROCESSOR TO BE TURNED OFF WHEN SYSTEM NOT IN USE TO CONSERVE POWER.

ONE-LINE
N.T.S.

1 ONE-LINE DIAGRAM - GREAT HALL 102 - VIDEO

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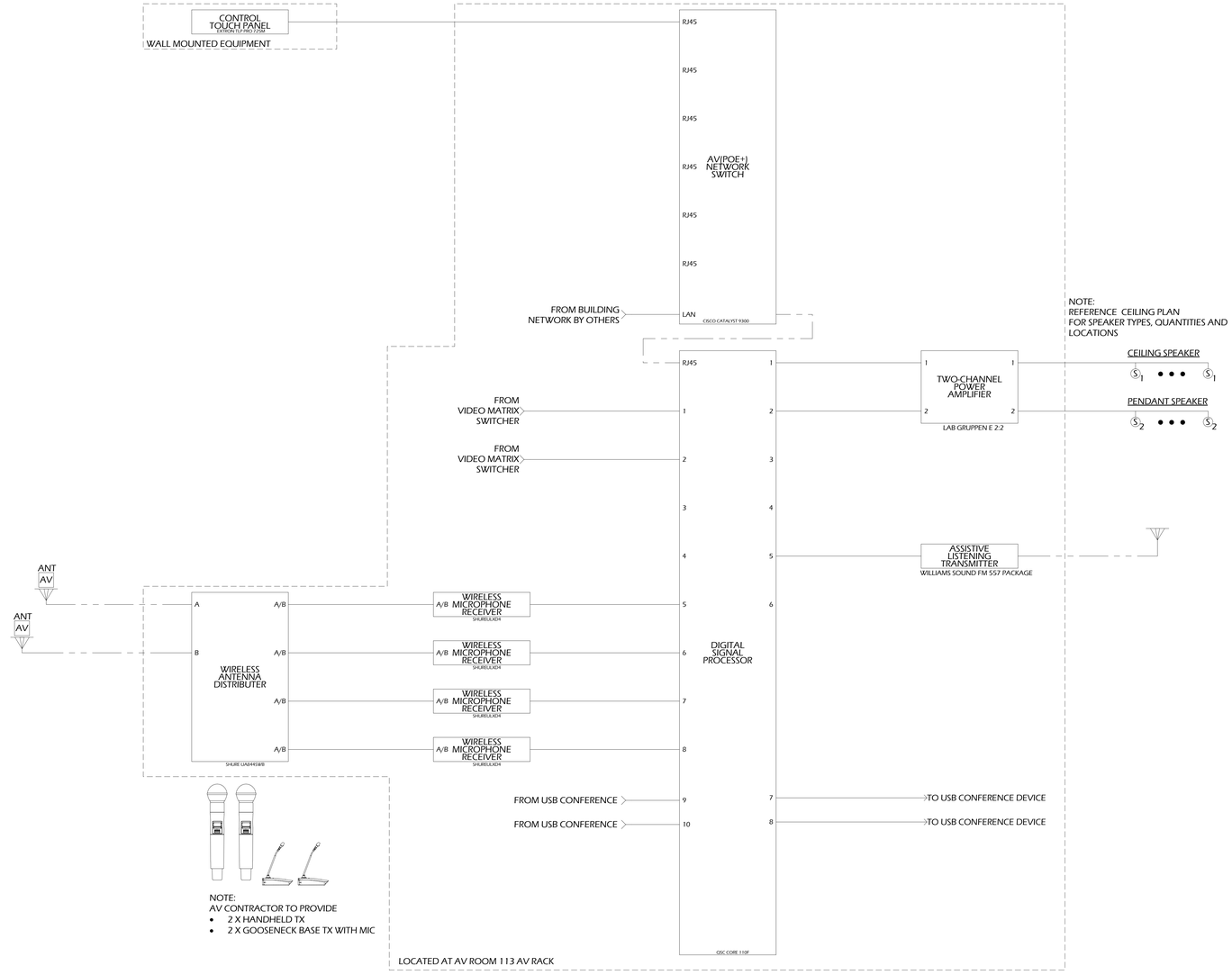
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ONE-LINE DIAGRAMS

AV-401

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ONE-LINE
N.T.S.

1 ONE-LINE DIAGRAM - GREAT HALL 102 - AUDIO

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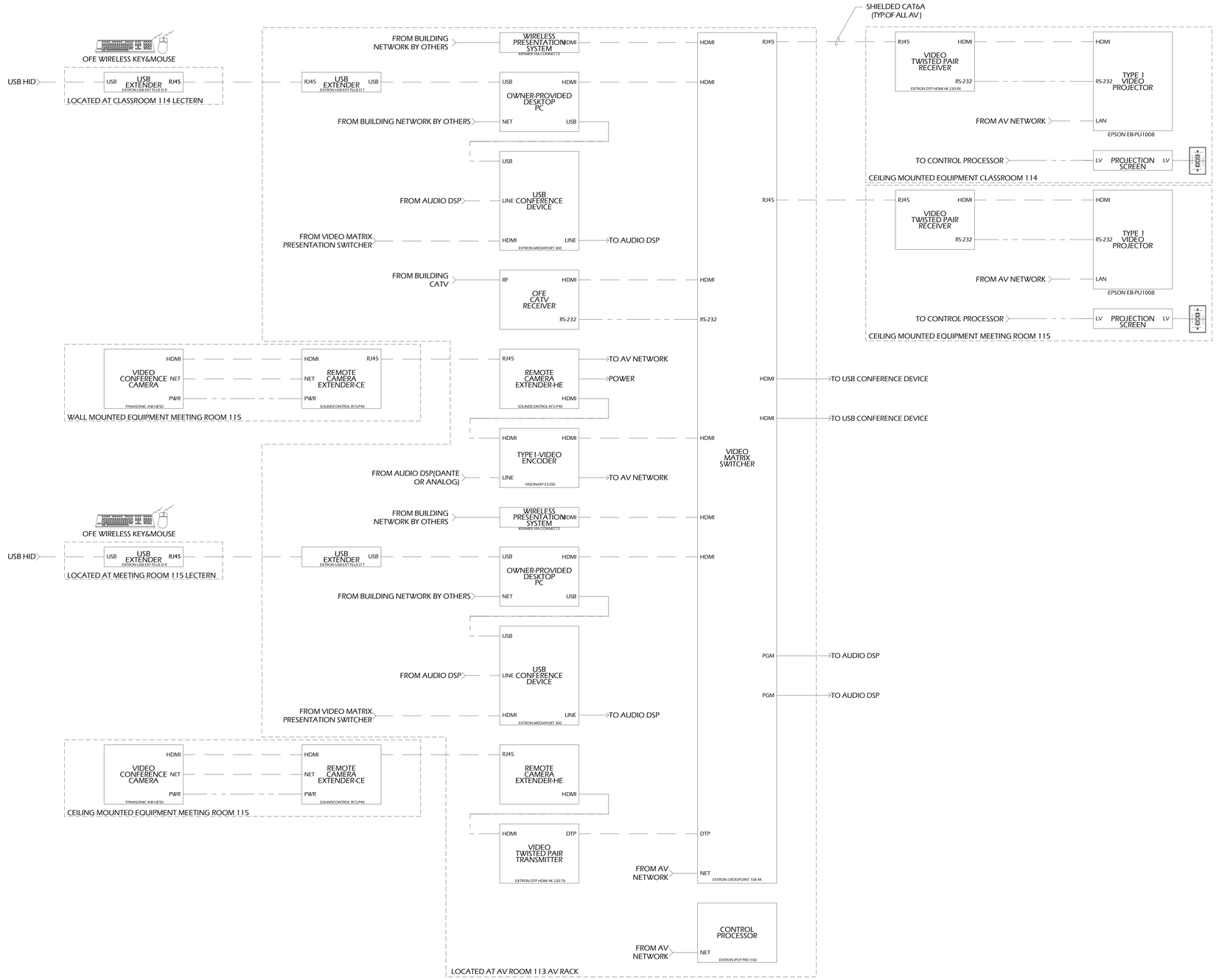
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ONE-LINE DIAGRAMS

AV-402

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NOTES:

A. REFERENCE FLOOR PLANS FOR LOCATIONS.

B. AUDIO VISUAL ROUGH-IN FOR EQUIPMENT SHALL BE PROVIDED AND INSTALLED AS DESIGNED.

C. GREEN NETWORK JACK AND SHIELDED CAT 6A FOR ALL AV NETWORK.

PROGRAMMING NOTES:

A. AUDIO VISUAL CONTRACTOR TO DETERMINE FINAL CONTROL FUNCTION WITH OWNER PRIOR TO DEVICE PROGRAMMING PHASE.

B. ALL EQUIPMENT EXCEPT CONTROL PROCESSOR TO BE TURNED OFF WHEN SYSTEM NOT IN USE TO CONSERVE POWER.

ONE-LINE
N.T.S.

1 ONE-LINE DIAGRAM - CLASSROOM 114 & MEETING ROOM 115 - VIDEO

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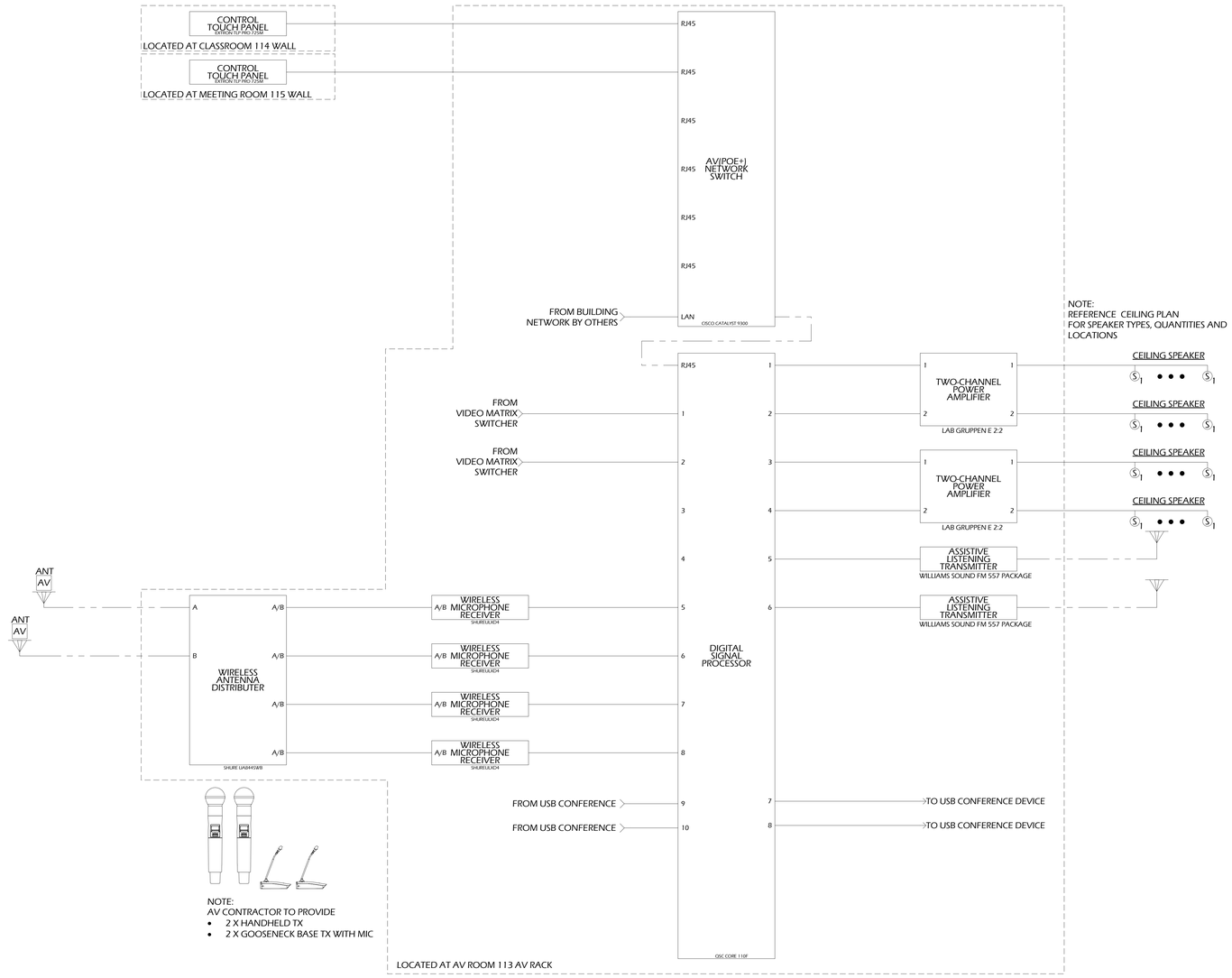
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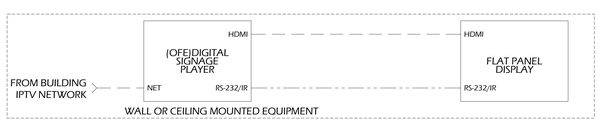
ONE-LINE DIAGRAMS

AV-403

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ONE-LINE N.T.S. 1 ONE-LINE DIAGRAM - CLASSROOM 114 & MEETING ROOM 115 - AUDIO



NOTES:

A. REFERENCE FLOOR PLANS FOR LOCATION AND QUANTITIES.

B. AUDIO VISUAL ROUGH-IN FOR EQUIPMENT SHALL BE PROVIDED AND INSTALLED AS DESIGNED.

ONE-LINE N.T.S. 2 ONE-LINE DIAGRAM - DIGITAL SIGNAGE

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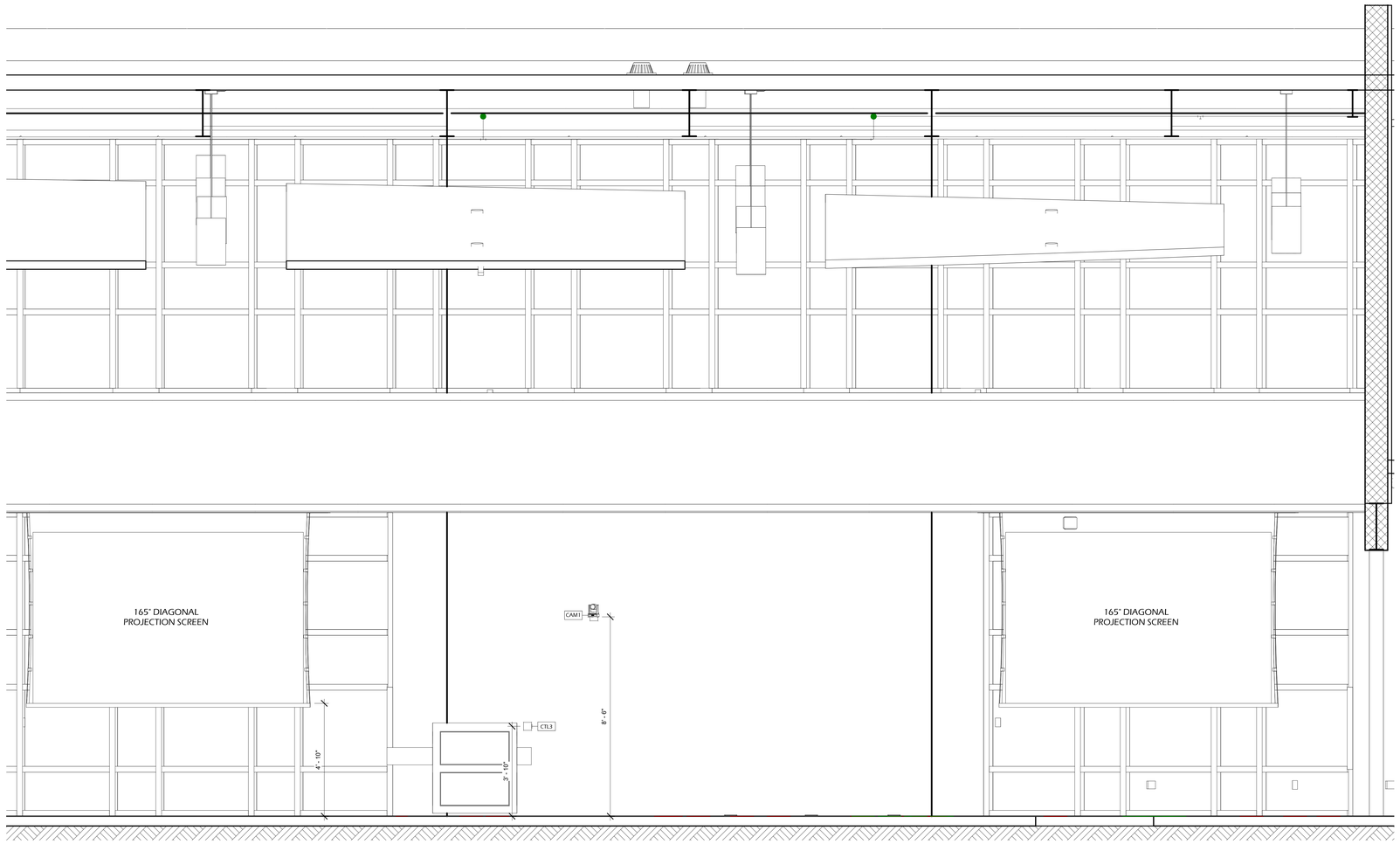
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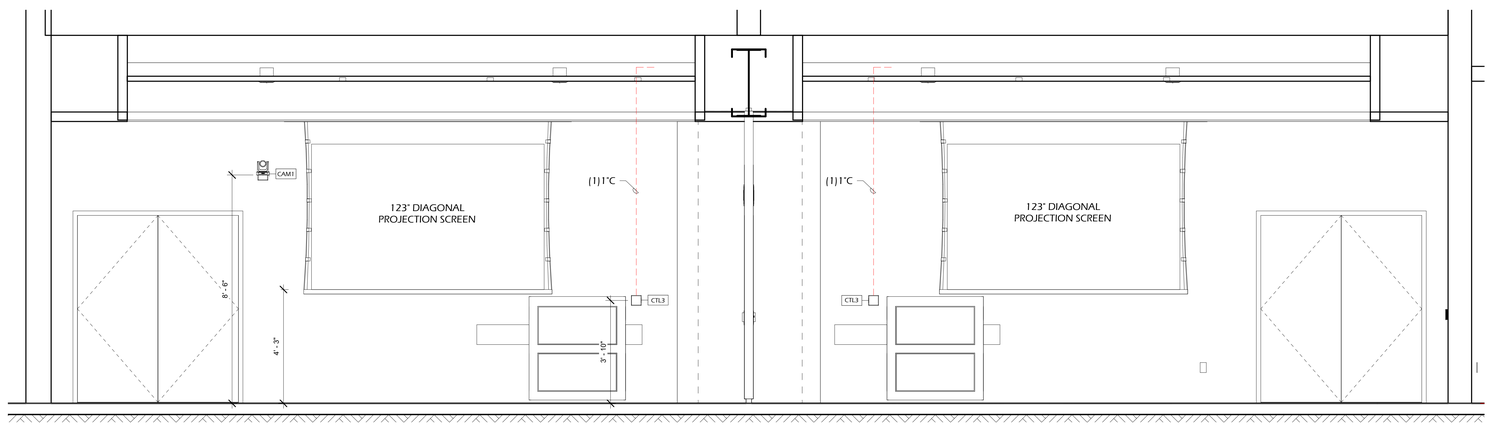
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ELEVATION 1 GREAT HALL 102
1/2" = 1'-0"



ELEVATION 2 CLASSROOM 114 & MEETING ROOM 115
1/2" = 1'-0"

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DETAILS

AV-501

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DISPLAY SCHEDULE				
DISPLAY No.	SIZE	LOCATION	BACKBOX HEIGHT	NOTES
TV01	75"D	GIFT SHOP 103	5' - 7"	DIGITAL SIGNAGE

SCHEDULE 1 DISPLAY SCHEDULE
N.T.S.

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DISPLAY SCHEDULE

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