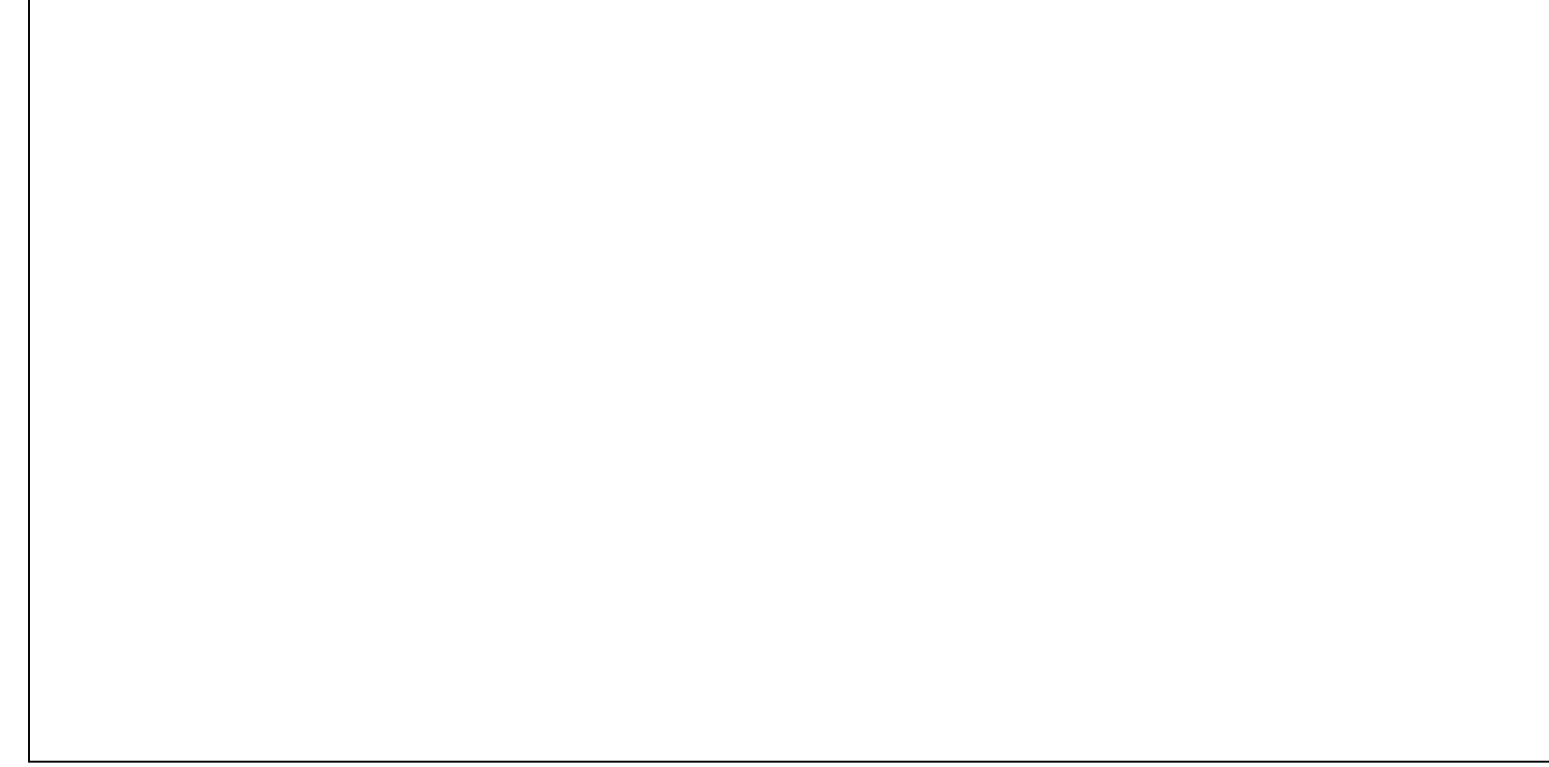


Attachment A

Contract Drawings

APPROVAL STAMP AREA



1Ø 120V - 277V BRANCH CIRCUIT SCHEDULES									
TABLE G: BRANCH CIRCUITS 1Ø WITH NO GC 'NEUTRAL' & WITH GRD EGC					TABLE H: BRANCH CIRCUITS 1Ø WITH GC 'NEUTRAL' & ISO GRD IG & GRD EGC				
AMPS	PWR TAG	STR CU THWN-2	COND SIZE	COND	PWR TAG	STR CU THWN-2	COND SIZE	COND	
20	1G	2 #12 & 1 #12 EGC	3/4"	1H	2 #12 & 2 #12 IG & EGC	3/4"			
30	2G	2 #10 & 1 #10 EGC	3/4"	2H	2 #10 & 2 #10 IG & EGC	3/4"			
40	3G	2 #8 & 1 #10 EGC	1"	3H	2 #8 & 2 #8 IG & EGC	1"			
55	4G	2 #6 & 1 #8 EGC	1"	4H	2 #6 & 2 #6 IG & EGC	1"			
70	5G	2 #4 & 1 #8 EGC	1"	5H	2 #4 & 2 #4 IG & EGC	1"			
85	6G	2 #3 & 1 #8 EGC	1.5"	6H	2 #3 & 2 #3 IG & EGC	1.5"			
95	7G	2 #2 & 1 #8 EGC	1.5"	7H	2 #2 & 2 #2 IG & EGC	1.5"			
130	8G	2 #1 & 1 #8 EGC	1.5"	8H	2 #1 & 2 #1 IG & EGC	1.5"			
150	9G	2 #1/0 & 1 #8 EGC	2"	9H	2 #1/0 & 2 #1/0 IG & EGC	2"			
175	10G	2 #2/0 & 1 #8 EGC	2"	10H	2 #2/0 & 2 #2/0 IG & EGC	2"			
200	11G	2 #3/0 & 1 #8 EGC	2"	11H	2 #3/0 & 2 #3/0 IG & EGC	2"			
230	12G	4 #4/0 & 1 #4 EGC	2.5"	12H	NA	NA			
255	13G	4 #250 & 1 #4 EGC	2.5"	13H	NA	NA			
310	14G	4 #350 & 1 #4 EGC	3"	14H	NA	NA			
335	15G	4 #400 & 1 #4 EGC	3"	15H	NA	NA			
380	16G	4 #500 & 1 #4 EGC	4"	16H	NA	NA			

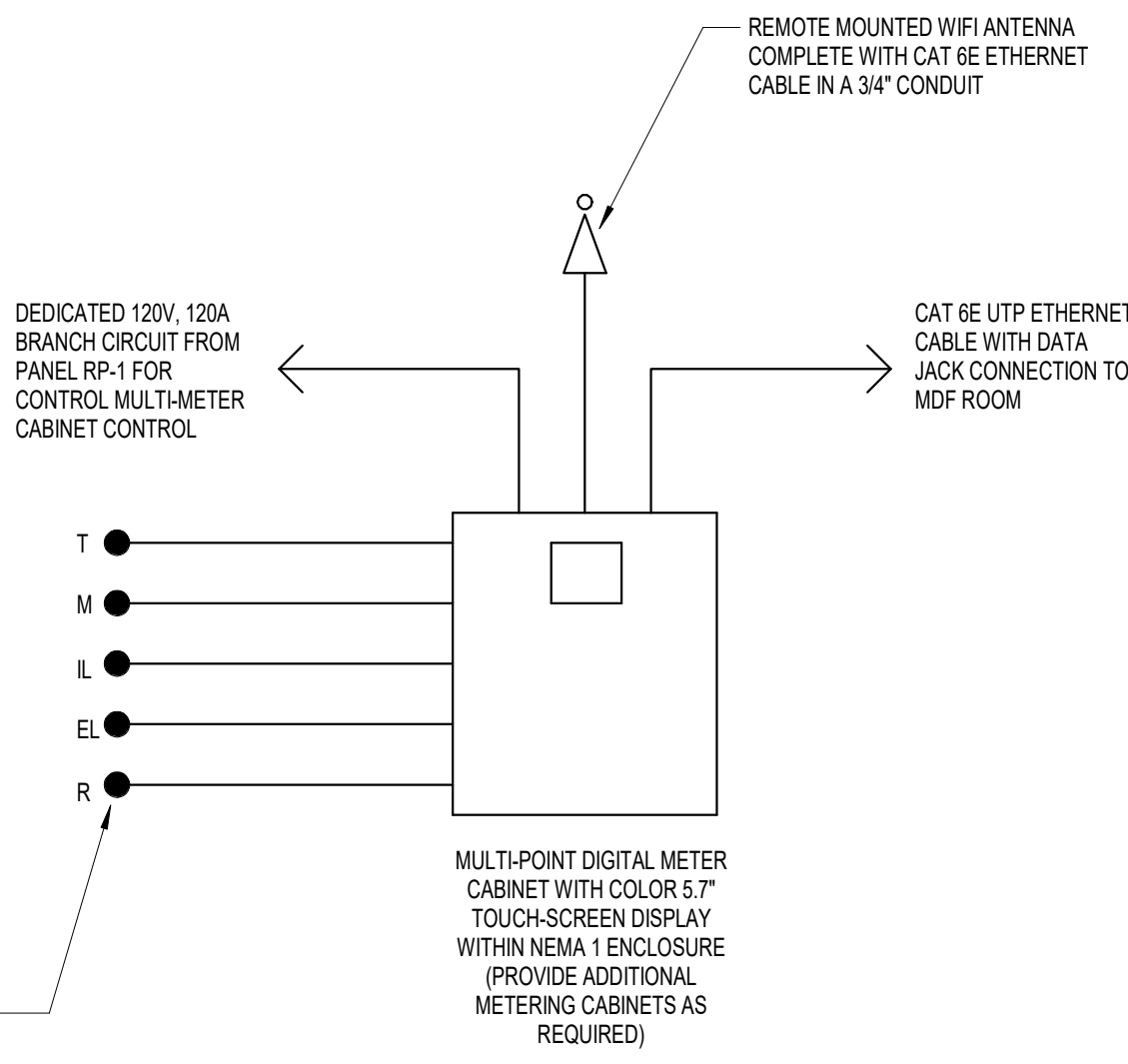
THREE PHASE (Ø) AND SINGLE PHASE (Ø) POWER FEEDERS - BRANCH CIRCUITS - SERVICE ENTRANCE SCHEDULE UP TO 1,200A																			
TABLE A: FEEDER-BRANCH CIRCUITS 3Ø 3W NO GC 'NEUTRAL' AND WITH 'GROUND' EGC					TABLE B: FEEDER-BRANCH CIRCUITS 3Ø 4W WITH GC 'NEUTRAL' & 'GROUND' EGC					TABLE C: FEEDER-BRANCH CIRCUITS 1Ø 2W NO GC 'NEUTRAL' AND WITH GRD EGC					TABLE D: FEEDER-BRANCH CIRCUITS 1Ø 3W WITH GC 'NEUTRAL' AND WITH GRD EGC				
AMPS	PWR TAG	STR CU THWN-2 OR XHHW-2 AWG - Kcmil	COND SIZE	COND	PWR TAG	STR CU THWN-2 OR XHHW-2 AWG - Kcmil	COND SIZE	COND	PWR TAG	STR CU THWN-2 OR XHHW-2 AWG - Kcmil	COND SIZE	COND	PWR TAG	STR CU THWN-2 OR XHHW-2 AWG - Kcmil	COND SIZE	COND	PWR TAG	STR CU THWN-2 OR XHHW-2 AWG - Kcmil	COND SIZE
20	1A	3 #12 & 1 #12 EGC	3/4"	1B	4 #12 & 1 #12 EGC	3/4"	1C	2 #12 & 1 #12 EGC	3/4"	1D	3 #12 & 1 #12 EGC	3/4"	1N	NA	NA				
30	2A	3 #10 & 1 #10 EGC	3/4"	2B	4 #10 & 1 #10 EGC	3/4"	2C	2 #10 & 1 #10 EGC	3/4"	2D	3 #10 & 1 #10 EGC	3/4"	2N	NA	NA				
40	3A	3 #8 & 1 #8 EGC	3/4"	3B	4 #8 & 1 #8 EGC	3/4"	3C	2 #8 & 1 #8 EGC	3/4"	3D	3 #8 & 1 #8 EGC	3/4"	3N	NA	NA				
55	4A	3 #6 & 1 #8 EGC	3/4"	4B	4 #6 & 1 #8 EGC	3/4"	4C	2 #6 & 1 #8 EGC	3/4"	4D	3 #6 & 1 #8 EGC	3/4"	4N	NA	NA				
70	5A	3 #4 & 1 #8 EGC	1"	5B	4 #4 & 1 #8 EGC	1"	5C	2 #4 & 1 #8 EGC	1"	5D	3 #4 & 1 #8 EGC	1"	5N	NA	NA				
85	6A	3 #3 & 1 #8 EGC	1"	6B	4 #3 & 1 #8 EGC	1"	6C	2 #3 & 1 #8 EGC	1"	6D	3 #3 & 1 #8 EGC	1"	6N	4 #3	1.5"				
95	7A	3 #2 & 1 #8 EGC	1"	7B	4 #2 & 1 #8 EGC	1"	7C	2 #2 & 1 #8 EGC	1"	7D	3 #2 & 1 #8 EGC	1"	7N	4 #2	1.5"				
130	8A	3 #1 & 1 #8 EGC	1.5"	8B	4 #1 & 1 #8 EGC	1.5"	8C	2 #1 & 1 #8 EGC	1.5"	8D	3 #1 & 1 #8 EGC	1.5"	8N	4 #1	1.5"				
150	9A	3 #1/0 & 1 #8 EGC	1.5"	9B	4 #1/0 & 1 #8 EGC	1.5"	9C	2 #1/0 & 1 #8 EGC	1.5"	9D	3 #1/0 & 1 #8 EGC	1.5"	9N	4 #1/0	2"				
175	10A	3 #2/0 & 1 #8 EGC	1.5"	10B	4 #2/0 & 1 #8 EGC	1.5"	10C	2 #2/0 & 1 #8 EGC	1.5"	10D	3 #2/0 & 1 #8 EGC	1.5"	10N	4 #2/0	2"				
200	11A	3 #3/0 & 1 #8 EGC	1.5"	11B	4 #3/0 & 1 #8 EGC	1.5"	11C	2 #3/0 & 1 #8 EGC	1.5"	11D	3 #3/0 & 1 #8 EGC	1.5"	11N	4 #3/0	2"				
230	12A	3 #4/0 & 1 #4 EGC	2"	12B	4 #4/0 & 1 #4 EGC	2"	12C	2 #4/0 & 1 #4 EGC	2"	12D	3 #4/0 & 1 #4 EGC	2"	12N	4 #4/0	2.5"				
255	13A	3 #250 & 1 #4 EGC	2.5"	13B	4 #250 & 1 #4 EGC	2.5"	13C	2 #250 & 1 #4 EGC	2"	13D	3 #250 & 1 #4 EGC	2.5"	13N	4 #250	2.5"				
310	14A	3 #350 & 1 #4 EGC	3"	14B	4 #350 & 1 #4 EGC	3"	14C	2 #350 & 1 #4 EGC	2.5"	14D	3 #350 & 1 #4 EGC	2.5"	14N	4 #350	3"				
335	15A	3 #400 & 1 #4 EGC	3"	15B	4 #400 & 1 #4 EGC	3"	15C	2 #400 & 1 #4 EGC	3"	15D	3 #400 & 1 #4 EGC	3"	15N	4 #400	3"				
380	16A	3 #500 & 1 #4 EGC	3.5"	16B	4 #500 & 1 #4 EGC	4"	16C	2 #500 & 1 #4 EGC	3"	16D	3 #500 & 1 #4 EGC	3.5"	16N	4 #500	3.5"				
420	17A	3 #600 & 1 #3 EGC	4"	17B	4 #600 & 1 #3 EGC	4"	17C	2 #600 & 1 #3 EGC	4"	17D	3 #600 & 1 #3 EGC	4"	17N	4 #600	4"				
460	18A	2 Sets 3 #4/0 & 1 #2 EGC	2" EA	18B	2 Sets 4 #4/0 & 1 #2 EGC	2.5" EA	18C	2 Sets 2 #4/0 & 1 #2 EGC	2" EA	18D	2 Sets 3 #4/0 & 1 #2 EGC	2" EA	18N	2 Sets 4 #4/0	2.5" EA				
510	19A	2 Sets 3 #250 & 1 #2 EGC	2.5" EA	19B	2 Sets 4 #250 & 1 #2 EGC	2.5" EA	19C	2 Sets 2 #250 & 1 #2 EGC	2" EA	19D	2 Sets 3 #250 & 1 #2 EGC	2.5" EA	19N	2 Sets 4 #250	2.5" EA				
620	20A	2 Sets 3 #350 & 1 #1 EGC	3" EA	20B	2 Sets 4 #350 & 1 #1 EGC	3" EA	20C	2 Sets 2 #350 & 1 #1 EGC	2.5" EA	20D	2 Sets 3 #350 & 1 #1 EGC	2.5" EA	20N	2 Sets 4 #350	3" EA				
670	21A	2 Sets 3 #400 & 1 #1/0 EGC	3" EA	21B	2 Sets 4 #400 & 1 #1/0 EGC	3" EA	21C	2 Sets 2 #400 & 1 #1/0 EGC	3" EA	21D	2 Sets 3 #400 & 1 #1/0 EGC	3" EA	21N	2 Sets 4 #400	3" EA				
690	22A	3 Sets 3 #4/0 & 1 #1/0 EGC	3" EA	22B	3 Sets 4 #4/0 & 1 #1/0 EGC	2.5" EA	22C	3 Sets 2 #4/0 & 1 #1/0 EGC	2" EA	22D	3 Sets 3 #4/0 & 1 #1/0 EGC	2" EA	22N	3 Sets 4 #4/0	2.5" EA				
840	23A	2 Sets 3 #600 & 1 #1/0 EGC	3.5" EA	23B	2 Sets 4 #600 & 1 #1/0 EGC	4" EA	23C	2 Sets 2 #600 & 1 #1/0 EGC	3.5" EA	23D	2 Sets 3 #600 & 1 #1/0 EGC	3.5" EA	23N	2 Sets 4 #600	4" EA				
1005	24A	3 Sets 3 #400 & 1 #2/0 EGC	3" EA	24B	3 Sets 4 #400 & 1 #2/0 EGC	3" EA	24C	3 Sets 2 #400 & 1 #2/0 EGC	3" EA	24D	3 Sets 3 #400 & 1 #2/0 EGC	3" EA	24N	3 Sets 4 #400	3" EA				
1020	25A	4 Sets 3 #250 & 1 #2/0 EGC	3" EA	25B	4 Sets 4 #250 & 1 #2/0 EGC	2.5" EA	25C	4 Sets 2 #250 & 1 #2/0 EGC	2" EA	25D	4 Sets 3 #250 & 1 #2/0 EGC	2.5" EA	25N	4 Sets 4 #250	2.5" EA				
1140	26A	3 Sets 3 #500 & 1 #3/0 EGC	3" EA	26B	3 Sets 4 #500 & 1 #3/0 EGC	3.5" EA	26C	3 Sets 2 #500 & 1 #3/0 EGC	3" EA	26D	3 Sets 3 #500 & 1 #3/0 EGC	3.5" EA	26N	3 Sets 4 #500	3.5" EA				
1240	27A	4 Sets 3 #350 & 1 #3/0 EGC	3" EA	27B	4 Sets 4 #350 & 1 #3/0 EGC	3" EA	27C	4 Sets 2 #350 & 1 #3/0 EGC	2.5" EA	27D	4 Sets 3 #350 & 1 #3/0 EGC	2.5" EA	27N	4 Sets 4 #350	3" EA				

ASHRAE 90.1 REQUIRES METERS IN COMMERCIAL BUILDINGS TO MONITOR THE FOLLOWING SEPARATELY:

- TOTAL ELECTRICAL ENERGY
 - HEATING, VENTILATING AND AIR CONDITIONING (HVAC) SYSTEMS
 - INTERIOR LIGHTING
 - EXTERIOR LIGHTING
 - RECEPTACLE CIRCUITS
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICITY METERING SYSTEM COMPLETE WITH DIGITAL METERING EQUIPMENT, COMMUNICATIONS BOARDS, HARDWARE, SOFTWARE, RISE KIT AND SENSING KITS, ANTENNAS, COMMUNICATION PROTOCOL, INTERFACE MODULES/CARDS, INCLUDING BUT NOT LIMITED TO ALL SIGNAL AND COMMUNICATION WIRING AND RACEWAYS, CONNECTIONS, CTS, PPS, AND RELATED EQUIPMENT REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL TURN-KEY ENERGY MONITORING SYSTEM. PROVIDE ALL PROGRAMMING, TESTING AND ON-SITE TRAINING OF USING AGENCY PERSONNEL. REFER TO SPECIFICATION SECTION 26 27 14 - ELECTRICITY SUB-METERING FOR ADDITIONAL INFORMATION

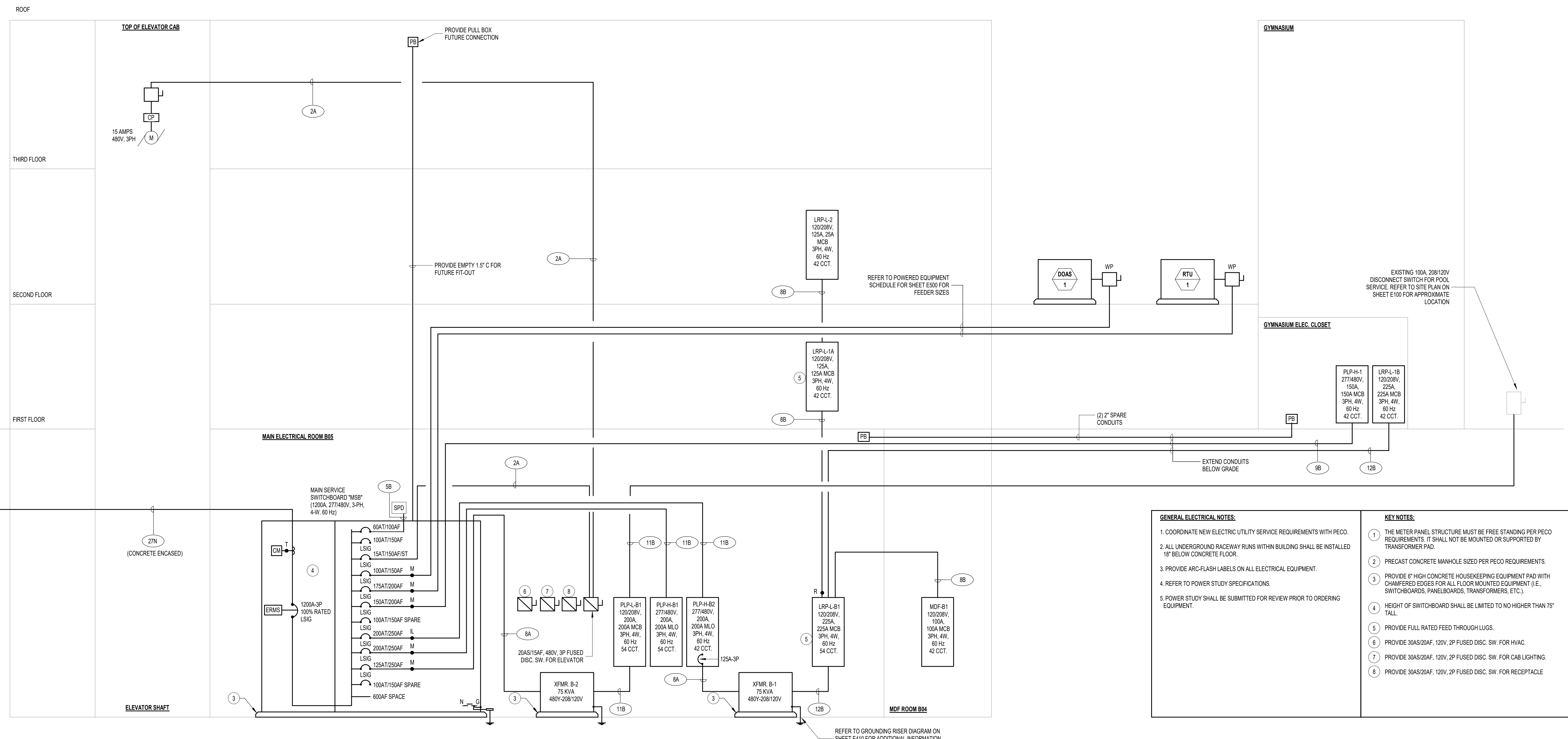
- T ● CURRENT SENSOR FOR TOTAL BUILDING ENERGY
- M ● CURRENT SENSOR FOR HEATING, VENTILATING AND AIR CONDITIONING (HVAC) SYSTEMS ENERGY
- IL ● CURRENT SENSOR FOR INTERIOR LIGHTING ENERGY
- EL ● CURRENT SENSOR FOR EXTERIOR LIGHTING ENERGY
- R ● CURRENT SENSOR FOR RECEPTACLE ENERGY

2 ELECTRICAL SUB-METERING DIAGRAM NTS



Revit version 2022.1.1 C:\Users\KStrickland\Documents\Francis J. Myers_MEPPF_R22_istickland\WCA1.rvt 2020 Francis J. Myers Title Block version 2022.09.14 | Printed 4/28/2023 9:42:12 AM

1 ELECTRICAL RISER NTS



GENERAL ELECTRICAL NOTES:

- COORDINATE NEW ELECTRIC UTILITY SERVICE REQUIREMENTS WITH PECCO.
- ALL UNDERGROUND RACEWAY RUNS WITHIN BUILDING SHALL BE INSTALLED 18" BELOW CONCRETE FLOOR.
- PROVIDE ARC-FLASH LABELS ON ALL ELECTRICAL EQUIPMENT.
- REFER TO POWER STUDY SPECIFICATIONS.
- POWER STUDY SHALL BE SUBMITTED FOR REVIEW PRIOR TO ORDERING EQUIPMENT.

KEY NOTES:

- THE METER PANEL STRUCTURE MUST BE FREE STANDING PER PECCO REQUIREMENTS. IT SHALL NOT BE MOUNTED OR SUPPORTED BY TRANSFORMER PAD.
- PRECAST CONCRETE MANHOLE SIZED PER PECCO REQUIREMENTS.
- PROVIDE 6" HIGH CONCRETE HOUSEKEEPING EQUIPMENT PAD WITH CHAMFERED EDGES FOR ALL FLOOR MOUNTED EQUIPMENT (I.E. SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, ETC.).
- HEIGHT OF SWITCHBOARD SHALL BE LIMITED TO NO HIGHER THAN 78" TALL.
- PROVIDE FULL RATED FEED THROUGH LUGS.
- PROVIDE 30AS20AF, 120V, 2P FUSED DISC. SW. FOR HVAC.
- PROVIDE 30AS20AF, 120V, 2P FUSED DISC. SW. FOR CAB LIGHTING.
- PROVIDE 30AS20AF, 120V, 2P FUSED DISC. SW. FOR RECEPTACLE.



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DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave
 Philadelphia, PA 19143

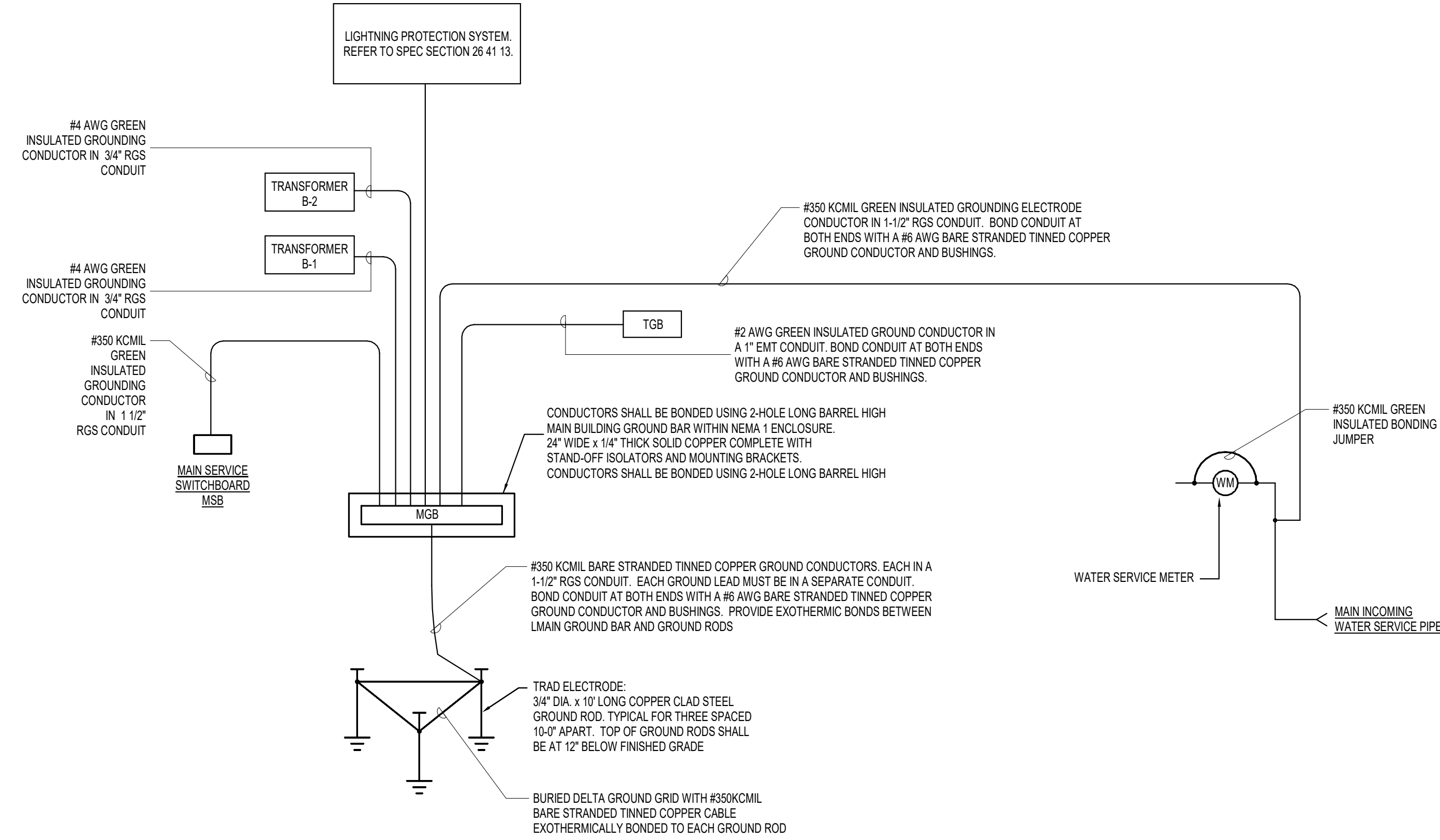
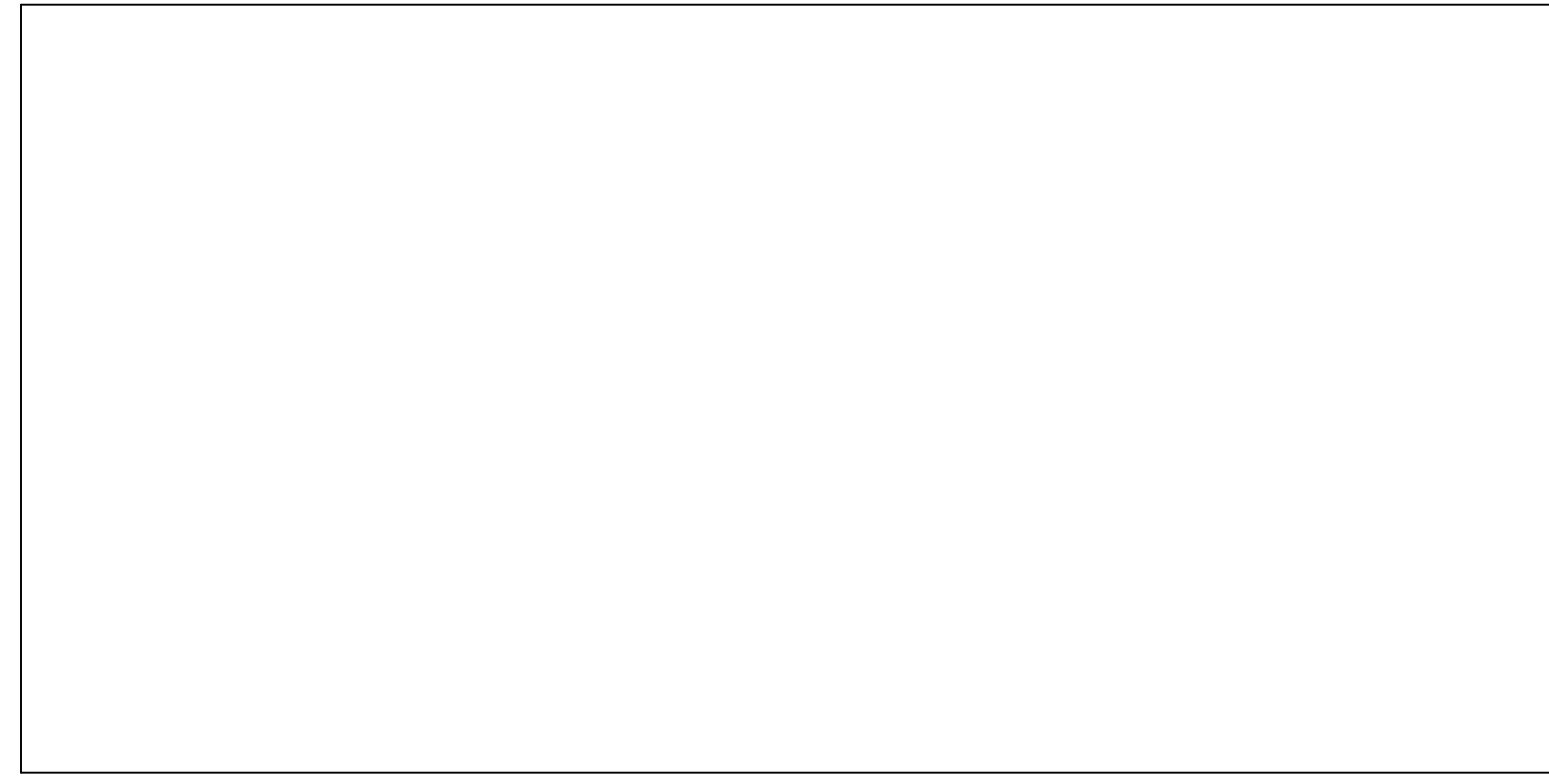
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 DRAWN: LL
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 DATE: 4/7/2023

SHEET NAME:
ELECTRICAL RISER DIAGRAMS

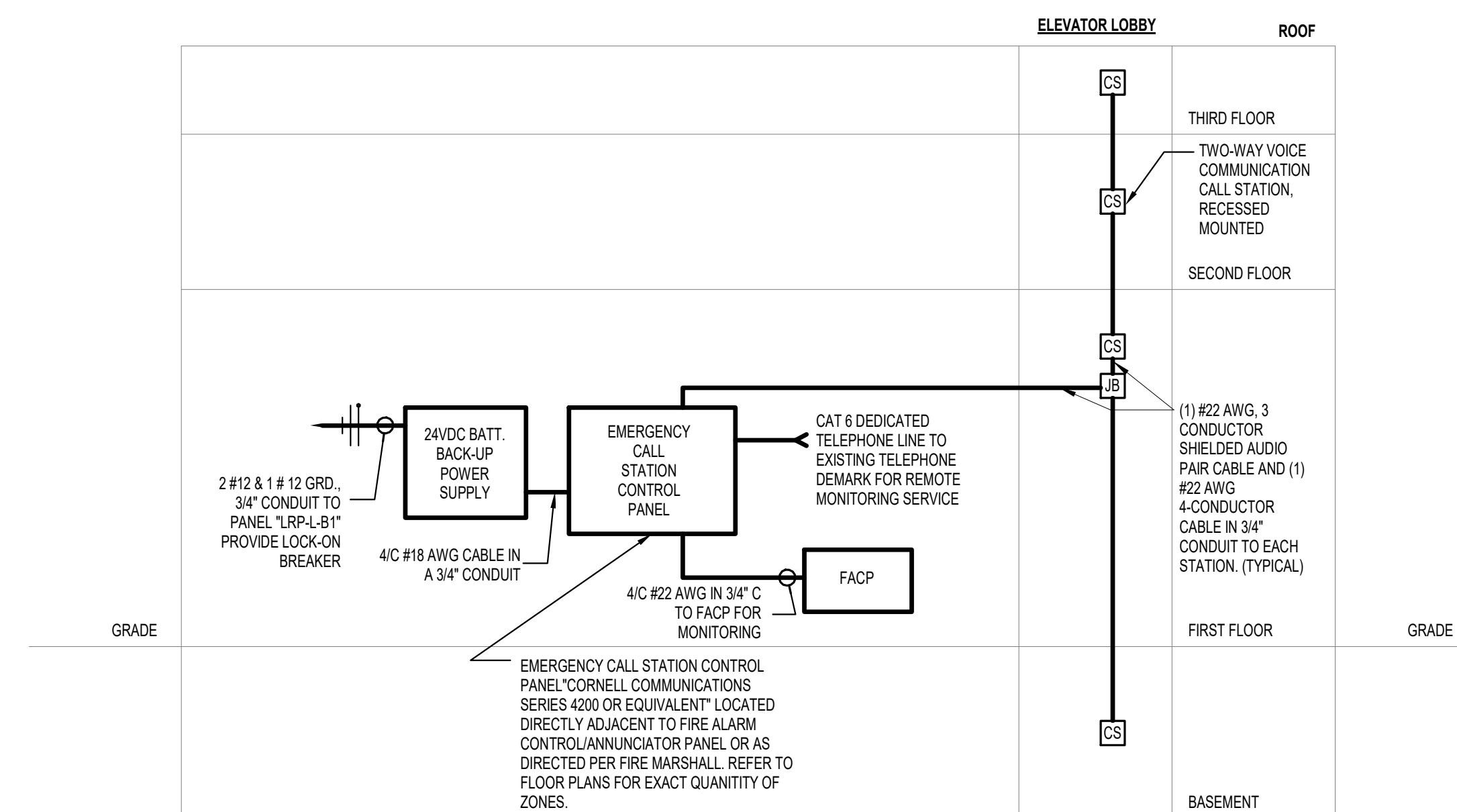
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E400

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

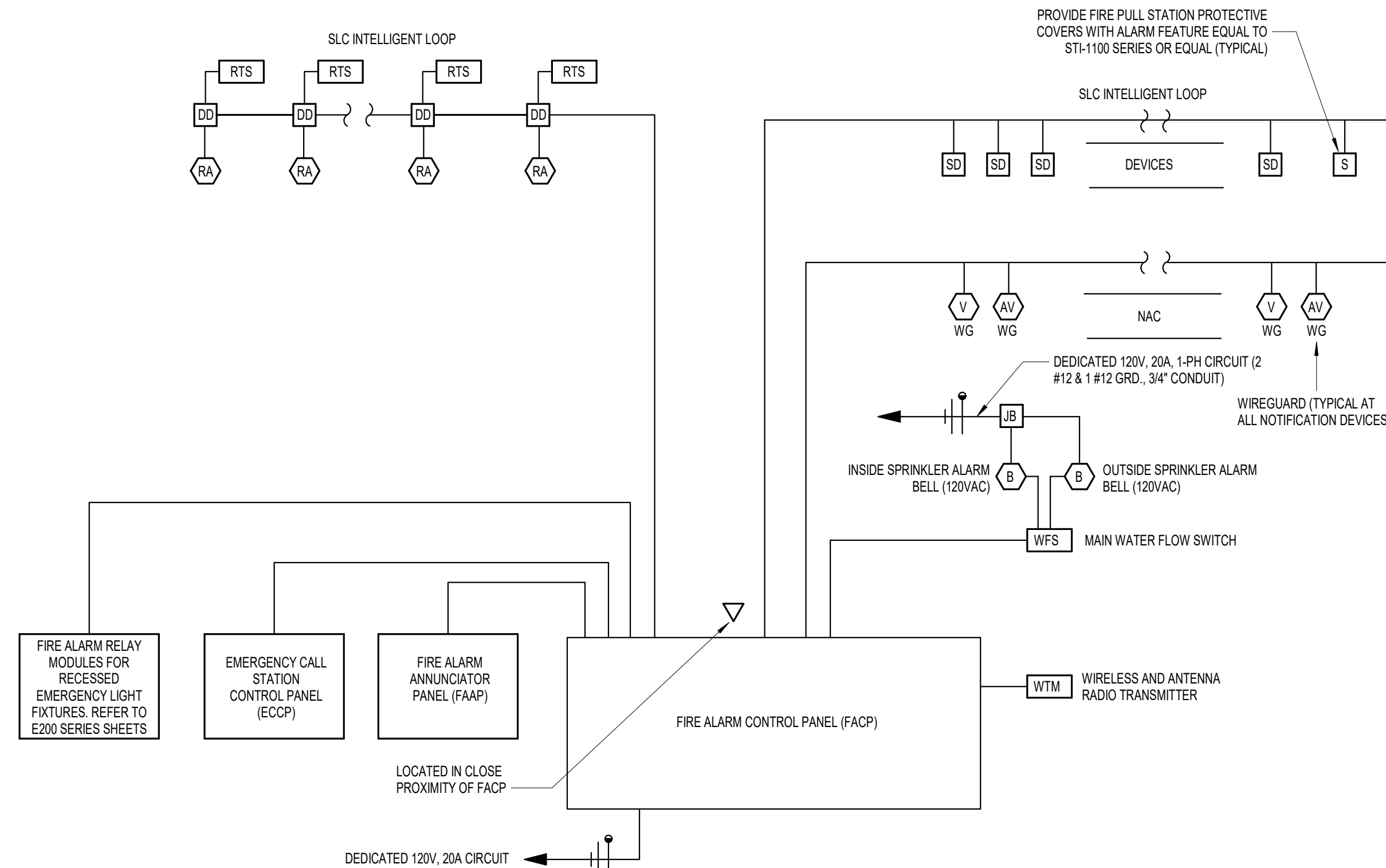
APPROVAL STAMP AREA



2 GROUNDING SYSTEM ONE-LINE RISER DIAGRAM
NTS



1 EMERGENCY CALL STATION RISER DIAGRAM
NTS



3 FIRE ALARM RISER DIAGRAM TYPICAL
NTS

FIRE ALARM SYSTEM GENERAL NOTES:

1. ALL FIRE ALARM SYSTEMS (INITIATING, DETECTION, NOTIFICATION, RELAY MODULES, ETC.) SHALL BE CLASS "B" WIRING.
2. ALL DEVICES AND EQUIPMENT SHOWN ON PLAN ARE FOR GENERAL LOCATION ONLY AND DO NOT NECESSARILY DEPICT ACTUAL LOCATION. FINAL LOCATION AND PLACEMENT OF DEVICES AND EQUIPMENT SHALL BE FULLY COORDINATED WITH ARCHITECT AND ALL TRADES AND LOCAL FIRE MARSHALL. REFER TO ARCH. DWGS FOR AESTHETIC INTENT.
3. ALL SIGNALING LINE CIRCUITS (SLCs) SHALL BE CLASS "B" WIRING METHOD. THESE CIRCUITS SHALL BE 2/C #16 AWG IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
4. ALL NOTIFICATION DEVICE/APPLIANCE CIRCUITS (NACs) SHALL BE CLASS "B" WIRING METHOD. CONNECT THESE DEVICES WITH 2/C #16 AWG IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
5. ALL INITIATING DEVICE CIRCUITS (IDCs) SHALL BE CLASS "B" WIRING METHOD. CONNECT THESE DEVICES WITH 2/C #16 AWG IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
6. FIRE ALARM SYSTEM INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE LATEST BUILDING CODE AND NFPA 72.
7. INSTALLATION MATERIALS (I.E. CONDUIT, WIRE, FITTINGS, HANGERS, AND STANDARD BOXES) SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
8. ALL HORN/STROBE AND STROBE DEVICES SHALL BE MOUNTED AT A HEIGHT OF 8'0" A.F.F. OR 9'0" BELOW DROPPED CEILING, WHICHEVER IS LESS IN ACCORDANCE WITH ADA (AMERICANS WITH DISABILITIES ACT). REFER TO ARCH. DWGS FOR LOCATIONS.
9. ALL MANUAL PULL STATIONS SHALL BE MOUNTED 48" A.F.F. TO CENTER OF DEVICE. REFER TO ARCH. DWGS FOR LOCATIONS.
10. FIRE ALARM CONTROL PANEL SHALL BE MOUNTED 6" TO THE TOP OF PANEL A.F.F. REFER TO ARCH. DWGS FOR LOCATIONS.
11. ALL FIRE ALARM SYSTEM CONDUITS SHALL BE FACTORY PAINTED RED AND SHALL BE NOT LESS THAN 3/4" EMT UNLESS OTHERWISE NOTED.
12. FIRE ALARM CONTROL PANEL SHALL BE CAPABLE OF MONITORING ALL DETECTION, INITIATION, NOTIFICATION AND CARBON MONOXIDE DEVICES.
13. ALL FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT.
14. MOUNT ALL AHJ-AC DUCT MOUNTED SMOKE DETECTORS WITHIN THE MAIN HEADER DUCT INSIDE THE BUILDING. DUCT DETECTORS MOUNTED ON THE EXTERIOR SIDE OF THE BUILDING SHALL NOT BE ACCEPTABLE.
15. ALL SECURED DOORS AT STAIRWELLS EQUIPPED WITH ELECTRIC DOOR STRIKES SHALL UNLOCK UPON ACTIVATION OF FIRE ALARM SYSTEM WHERE APPLICABLE. PROVIDE SIGNAL WIRING IN CONDUIT AND ASSOCIATED HARDWARE, SOFTWARE, MODULES AND PROGRAMMING AS REQUIRED.
16. MAIN WATER FLOW SWITCH SHALL ACTIVATE ALARM BELLS.
17. PROVIDE FIRE ALARM MAPS COMPLETE WITH DEVICE ADDRESS TO EACH FIRE ALARM CONTROL PANEL AND FIRE ALARM ANNUNCIATOR PANEL LOCATION.
18. CONTRACTOR SHALL REFERENCE THE FIRE PROTECTION AND MECHANICAL DRAWINGS INCLUDING SHOP DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF ALL DETECTION DEVICES INCLUDING WATER FLOW SWITCHES, TAMPER SWITCHES, AND DUCT DETECTORS.

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DATE:	DESCRIPTION:

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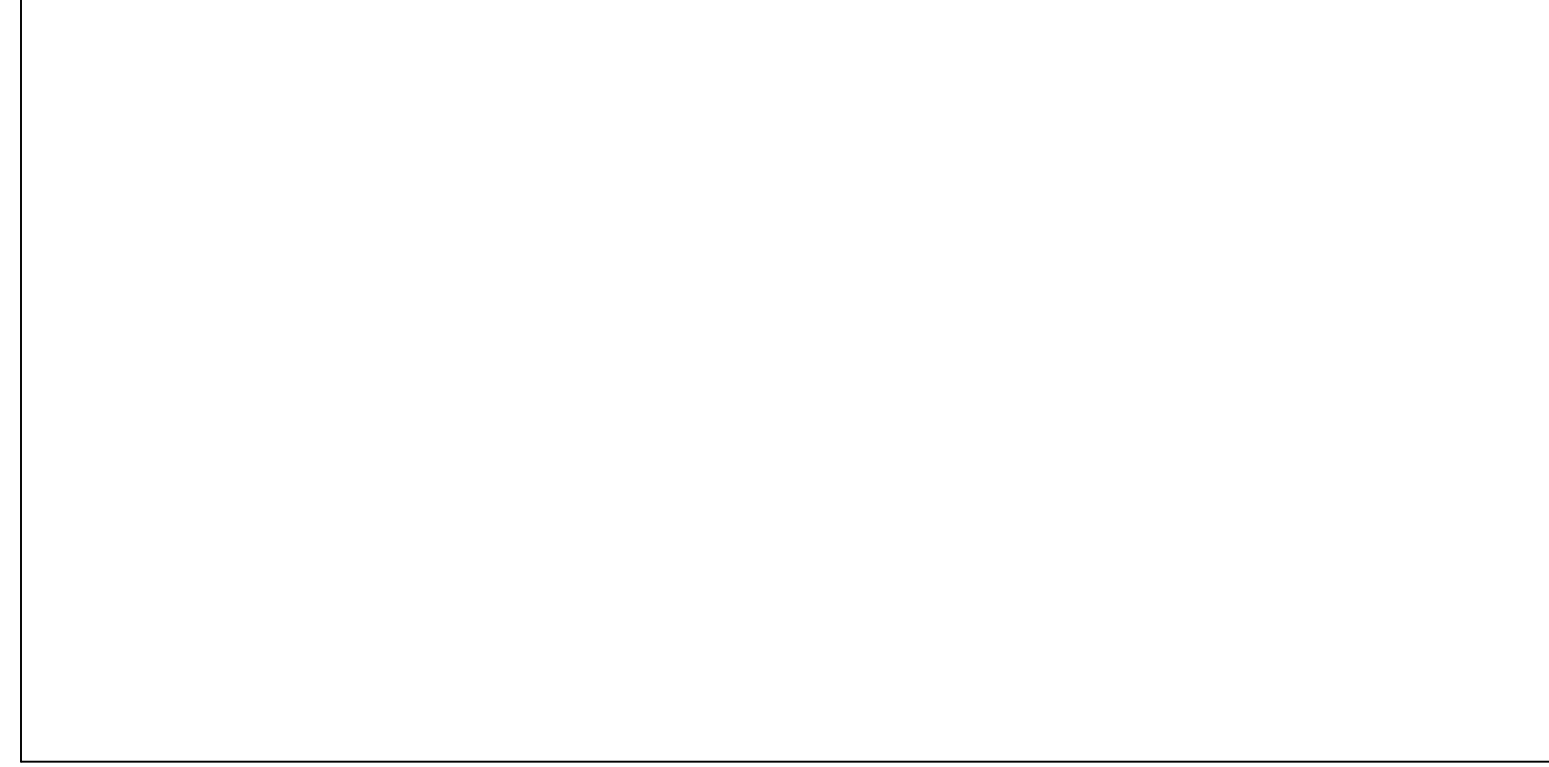
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FORMAT:	30" X 42"
DRAWN:	LL
CHECKED:	JC
DATE:	4/7/2023

SHEET NAME:
FIRE ALARM & GROUNDING RISER DIAGRAM

SHEET NUMBER:
E410

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



PANEL BOARD: PLP-H-B2	
LOCATION: ELECTRICAL B05	VOLTS: 480/277 Wye
MOUNTING TYPE: SURFACE	PHASES: 3
ENCLOSURE: NEMA 1	WIRES: 4
FED FROM: MSB	MCB TYPE: COPPER
A.I.C. Rating: 22,000	NEUTRAL BUS: STANDARD, COPPER
MAINS TYPE: MLO	GROUND BUS: STANDARD, COPPER
MAINS: 250 A	
MCB RATING: 250 A	

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	LIGHTING BASEMENT	20 A	1	1958 VA	23 VA			1	20 A	2
3	LIGHTING ROOM 121, 122, 109-112	20 A	1		1203 VA	723 VA		1	20 A	4
5	LIGHTING ROOM 103, 115, 113	20 A	1			942 VA	300 VA	1	20 A	6
7	EXIT SIGNS FIRST FLOOR	20 A	1	62 VA	1812 VA			1	20 A	8
9	LIGHTING CORRIDOR 200	20 A	1		1291 VA	22 VA		1	20 A	10
11	LIGHTING/EXIT SIGNS THIRD FLOOR	20 A	1			452 VA	320 VA	1	20 A	12
13	LIGHTING ELEV. PIT LIGHT	20 A	1	50 VA	0 VA			1	20 A	14
15	SPARE	20 A	1		0 VA	0 VA		1	20 A	16
17	SPARE	20 A	1		0 VA	0 VA		1	20 A	18
19	SPARE	20 A	1	0 VA	0 VA			1	20 A	20
21	SPARE	20 A	1		0 VA	0 VA		1	20 A	22
23	SPARE	20 A	1		0 VA	0 VA		1	20 A	24
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	26
27	SPARE	20 A	1		0 VA	0 VA		1	20 A	28
29	SPARE	20 A	1		0 VA	0 VA		1	20 A	30
31	SPARE	20 A	1	0 VA	0 VA			1	20 A	32
33	SPARE	20 A	1		0 VA	0 VA		1	20 A	34
35	SPARE	20 A	1		0 VA	0 VA		1	20 A	36
37	T-B1	200 A	3	24798 VA	0 VA			1	20 A	38
39	SPARE	20 A	1		17660 VA	0 VA		1	20 A	40
41	--	--	--	--	--	17165 VA	0 VA	1	20 A	42
TOTAL LOAD:				28703 VA	20899 VA	19179 VA				
TOTAL AMPS:				105 A	76 A	69 A				

LOAD CLASSIFICATIONS:	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
ELECTRICAL HEATING	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD: 67870 VA
LIGHTING	9692 VA	125.00%	12115 VA	TOTAL EST. DEMAND: 52843 VA
MOTOR/EQUIPT.	11760 VA	80.00%	9408 VA	TOTAL CONN.: 83 A
RECEPTACLE	32016 VA	50.00%	16008 VA	TOTAL EST. DEMAND: 64 A

PANEL BOARD: MDF-B1	
LOCATION: MDF ROOM	VOLTS: 120/208 Wye
MOUNTING TYPE: SURFACE	PHASES: 3
ENCLOSURE: NEMA 1	WIRES: 4
FED FROM: LRP-L-B1	MCB TYPE: COPPER
A.I.C. Rating: 22,000	NEUTRAL BUS: STANDARD, COPPER
MAINS TYPE: MCB	GROUND BUS: STANDARD, COPPER
MAINS: 100 A	
MCB RATING: 100 A	

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	RECEPTACLE MDF B03	20 A	1	720 VA	360 VA			1	20 A	2
3	RECEPTACLE MDF B03	20 A	1		360 VA	2496 VA		2	20 A	4
5	RECEPTACLE MDF B03	20 A	2		2496 VA	2496 VA		--	--	6
7	--	--	--	2496 VA	360 VA			--	--	8
9	SPARE	20 A	1		0 VA	0 VA		1	20 A	10
11	SPARE	20 A	1		0 VA	0 VA		1	20 A	12
13	SPARE	20 A	1	0 VA	0 VA			1	20 A	14
15	SPARE	20 A	1		0 VA	0 VA		1	20 A	16
17	SPARE	20 A	1		0 VA	0 VA		1	20 A	18
19	SPARE	20 A	1	0 VA	0 VA			1	20 A	20
21	SPARE	20 A	1		0 VA	0 VA		1	20 A	22
23	SPARE	20 A	1		0 VA	0 VA		1	20 A	24
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	26
27	SPARE	20 A	1		0 VA	0 VA		1	20 A	28
29	SPARE	20 A	1		0 VA	0 VA		1	20 A	30
31	SPARE	20 A	1	0 VA	0 VA			1	20 A	32
33	SPARE	20 A	1		0 VA	0 VA		1	20 A	34
35	SPARE	20 A	1		0 VA	0 VA		1	20 A	36
37	SPARE	20 A	1	0 VA	0 VA			1	20 A	38
39	SPARE	20 A	1		0 VA	0 VA		1	20 A	40
41	SPARE	20 A	1		0 VA	0 VA		1	20 A	42
TOTAL LOAD:				3936 VA	2856 VA	4992 VA				
TOTAL AMPS:				34 A	24 A	43 A				

LOAD CLASSIFICATIONS:	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
ELECTRICAL HEATING	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD: 11784 VA
LIGHTING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 5892 VA
MOTOR/EQUIPT.	0 VA	0.00%	0 VA	TOTAL CONN.: 33 A
RECEPTACLE	11784 VA	50.00%	5892 VA	TOTAL EST. DEMAND: 16 A

NOTES:											
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PANEL BOARD: LRP-L-B1			
LOCATION: ELECTRICAL B05	VOLTS: 120/208 Wye	A.I.C. Rating: 22,000	NEUTRAL BUS: STANDARD, COPPER
MOUNTING TYPE: SURFACE	PHASES: 3	MAINS TYPE: MCB	GROUND BUS: STANDARD, COPPER
ENCLOSURE: NEMA 1	WIRES: 4	MAINS: 225 A	
FED FROM: T-B1	MCB TYPE: COPPER	MCB RATING: 225 A	

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	RECEPTACLE CORRIDOR-2 B01-2	20 A	1	900 VA	720 VA			1	20 A	2
3	RECEPTACLE ROOM B05, B06, B01-1	20 A	1		900 VA	180 VA		1	20 A	4
5	RECEPTACLE	20 A	1		180 VA	180 VA		1	20 A	6
7	RECEPTACLE GYMNASIUM-1 102-1	20 A	1	540 VA	2496 VA			2	30 A	8
9	RECEPTACLE	20 A	1		720 VA	2496 VA		1	20 A	10
11	RECEPTACLE DRYER STORAGE...	20 A	1		1200 VA	445 VA		1	20 A	12
13	SPARE	40 A	2	3328 VA	90 VA			1	20 A	14
15	--	--	--	--	3328 VA	1000 VA		1	20 A	16
17	SPARE	40 A	2			3328 VA	1000 VA	1	20 A	18
19	--	--	--	3328 VA	0 VA			1	20 A	20
21	SPARE	20 A	1		0 VA	0 VA		1	20 A	22
23	SPARE	20 A	1		0 VA	0 VA		1	20 A	24
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	26
27	SPARE	20 A	1		0 VA	0 VA		1	20 A	28
29	SPARE	20 A	1		0 VA	0 VA		1	20 A	30
31	SPARE	20 A	1	0 VA	0 VA			1	20 A	32
33	SPARE	20 A	1		0 VA	0 VA		1	20 A	34
35	SPARE	20 A	1		0 VA	0 VA		1	20 A	36
37	SPARE	20 A	1	0 VA	0 VA			1	20 A	38
39	SPARE	20 A	1		0 VA	0 VA		1	20 A	40
41	SPARE	20 A	1	0 VA	0 VA			1	20 A	42
45	SPARE	20 A	1		0 VA	0 VA		1	20 A	46
47	SPARE	20 A	1		0 VA	0 VA		1	20 A	48
49	SPARE	20 A	1	0 VA	3936 VA			3	100 A	50
51	SPARE	20 A	1		0 VA	2856 VA		--	--	52
53	SPARE	20 A	1		0 VA	4992 VA		--	--	54
TOTAL LOAD:				24798 VA	17660 VA	17165 VA				
TOTAL AMPS:				207 A	148 A	143 A				

LOAD CLASSIFICATIONS:	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
ELECTRICAL HEATING	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD: 59623 VA
LIGHTING	535 VA	125.00%	669 VA	TOTAL EST. DEMAND: 41397 VA
MOTOR/EQUIPT.	11760 VA	80.00%	9408 VA	TOTAL CONN.: 165 A
RECEPTACLE	32016 VA	50.00%	16008 VA	TOTAL EST. DEMAND: 115 A

SWITCHBOARD: MSB			
LOCATION: ELECTRICAL B04	VOLTS: 480/277 Wye	MAINS TYPE: 1200 A (100% COPPER)	
FED FROM: UTILITY TRANSFORMER	PHASES: 3	MAINS RATING: 1200 A	
MOUNTING TYPE: FLOOR	WIRES: 4	MAIN CIRCUIT: 1200 A (100% RATED)	
ENCLOSURE: NEMA 1	A.I.C. RATING: 65,000	NEUTRAL BUS: 100% RATED FULL COPPER WITH BUS DISCONNECT LINK	
OTHER: PROVIDE 4" HIGH CONCRETE PAD		GROUND BUS: 100% RATED FULL COPPER	

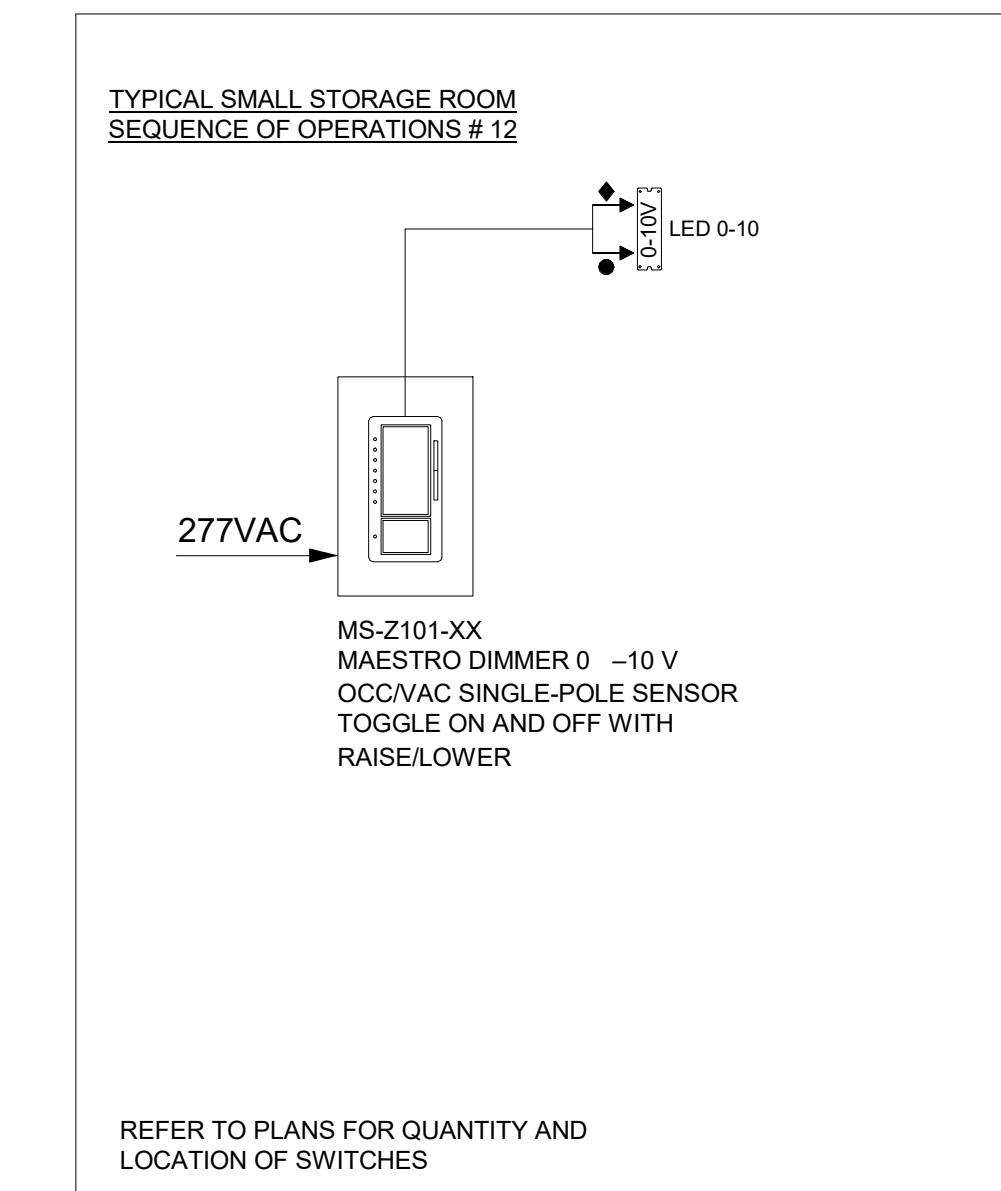
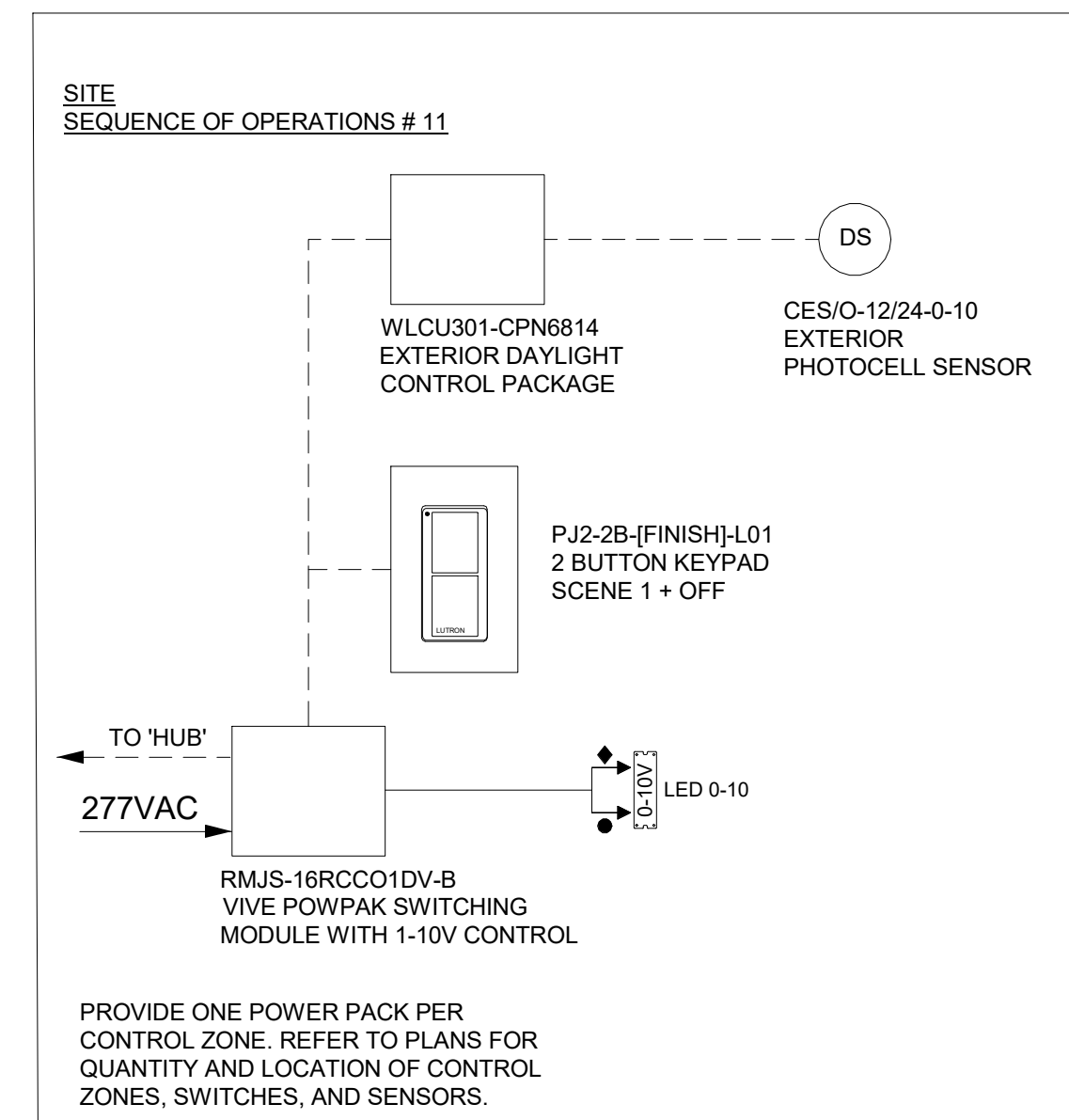
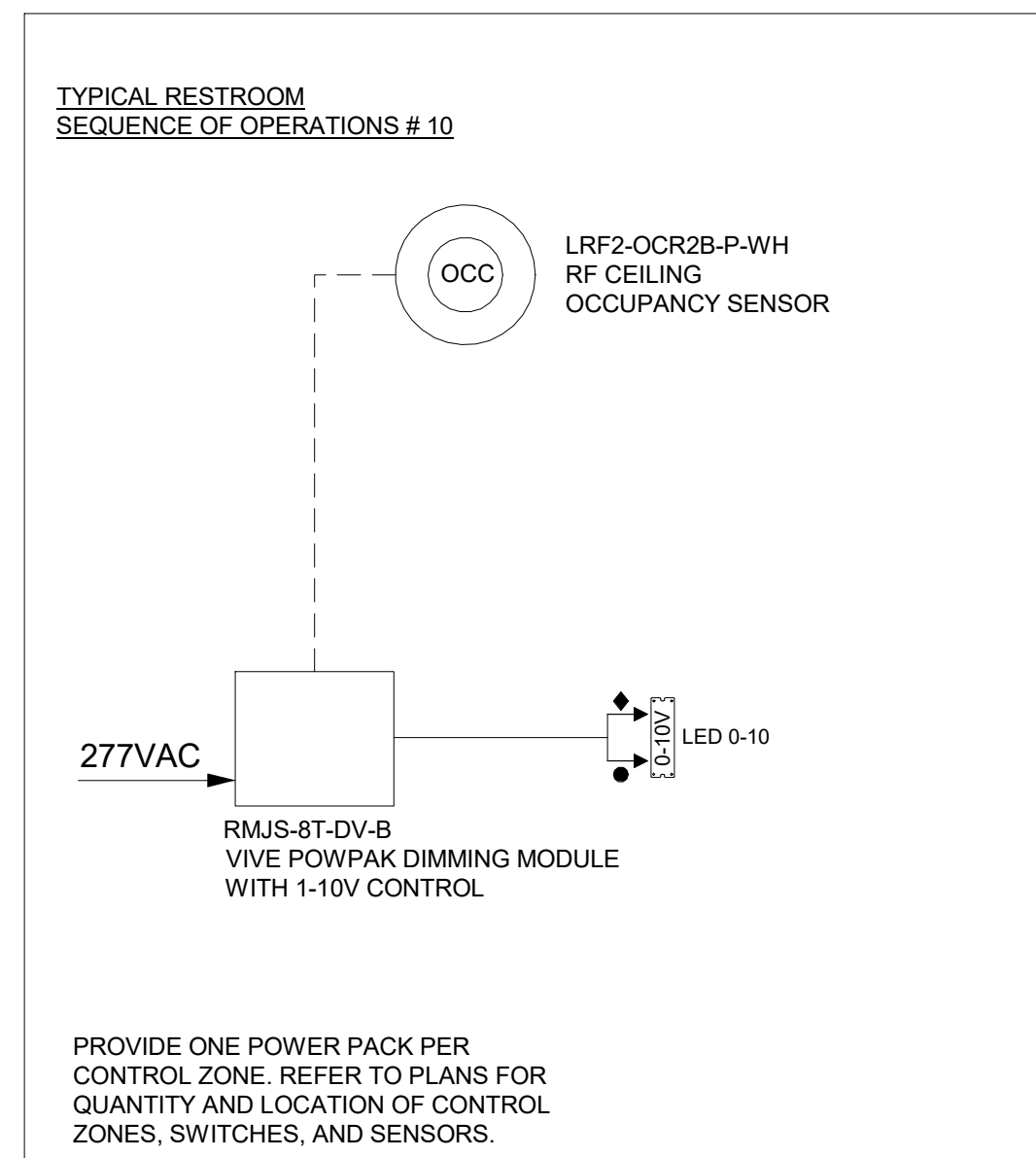
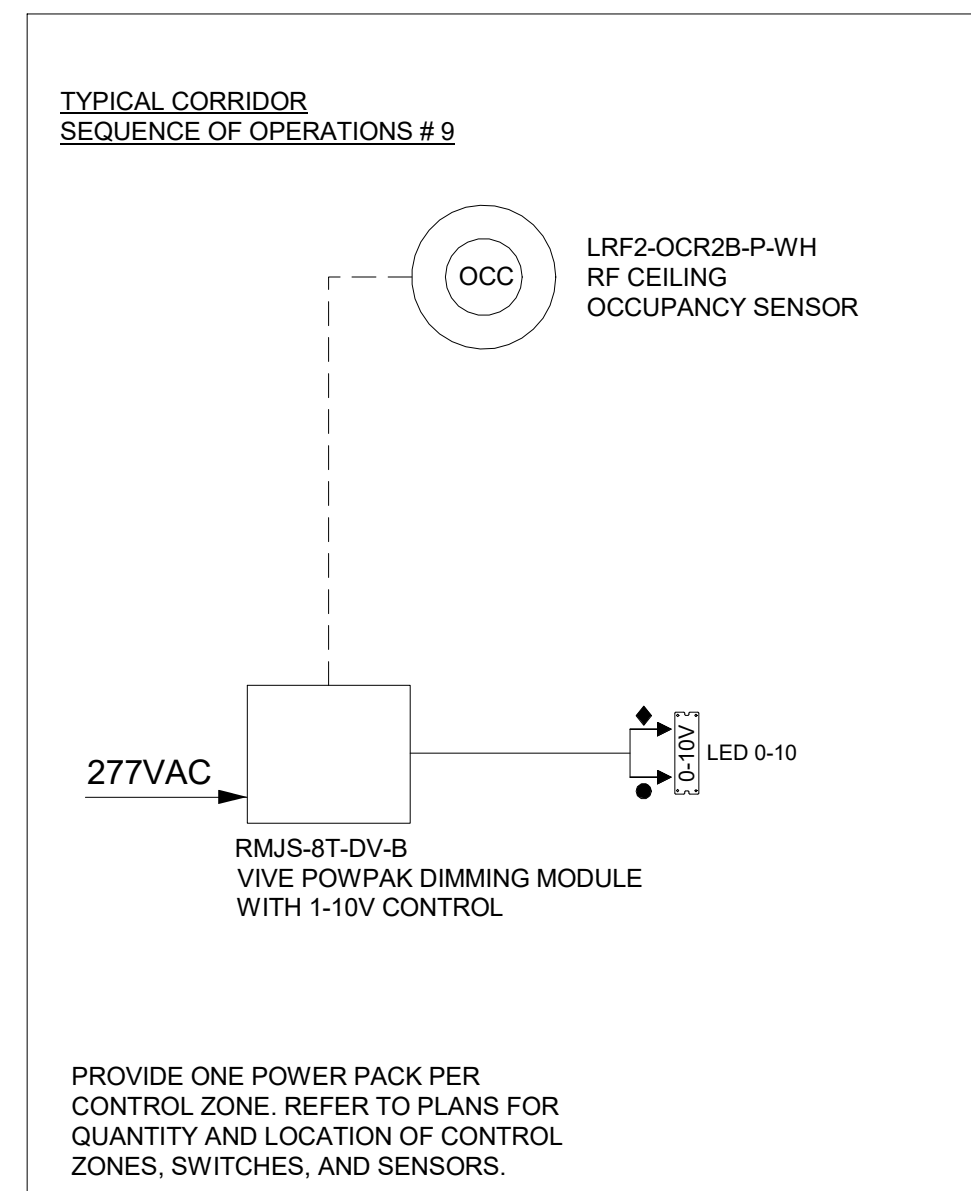
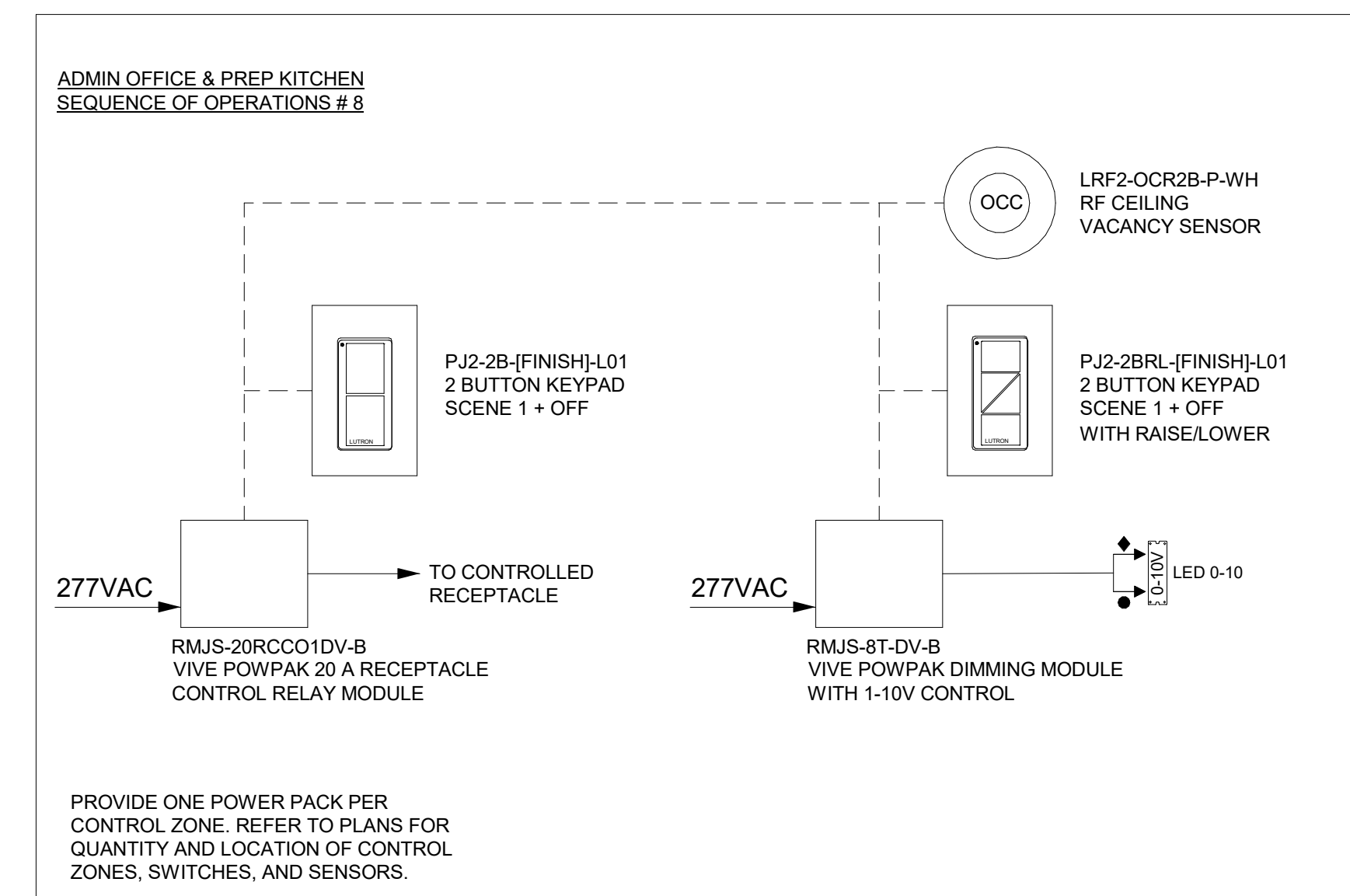
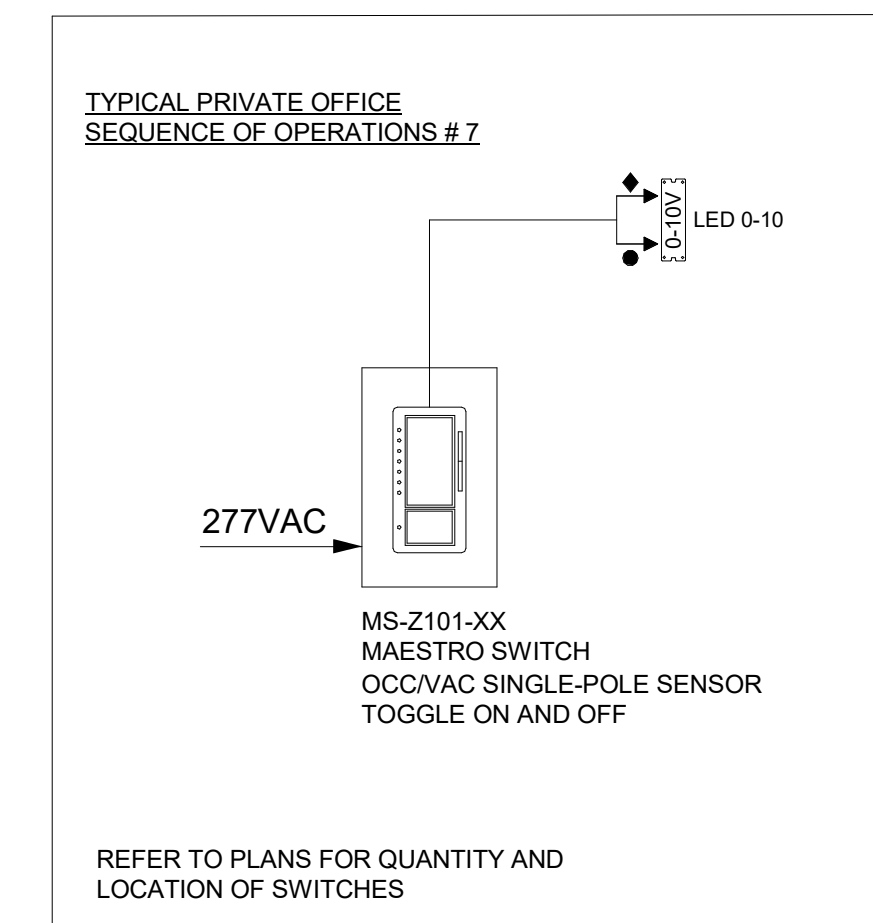
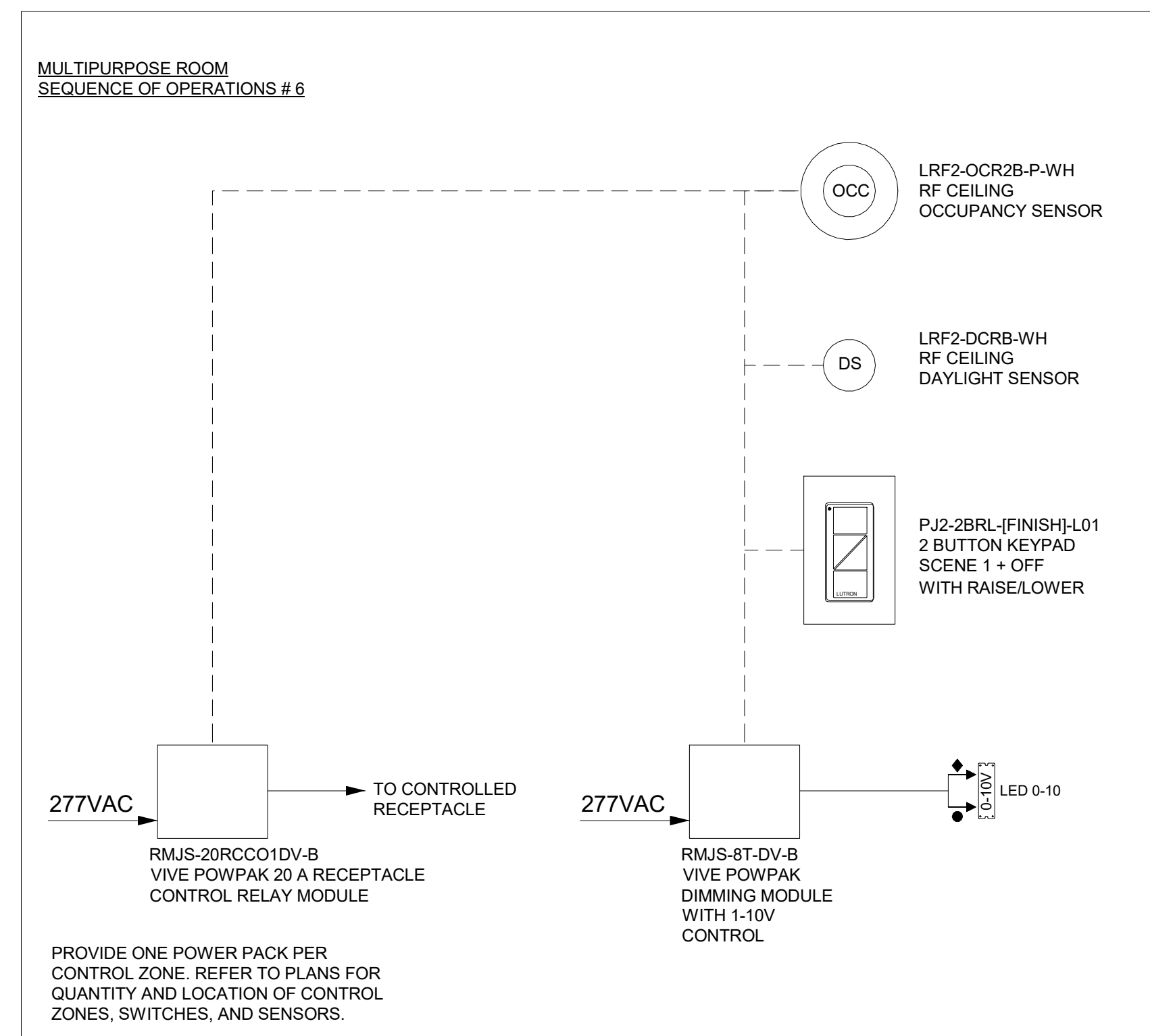
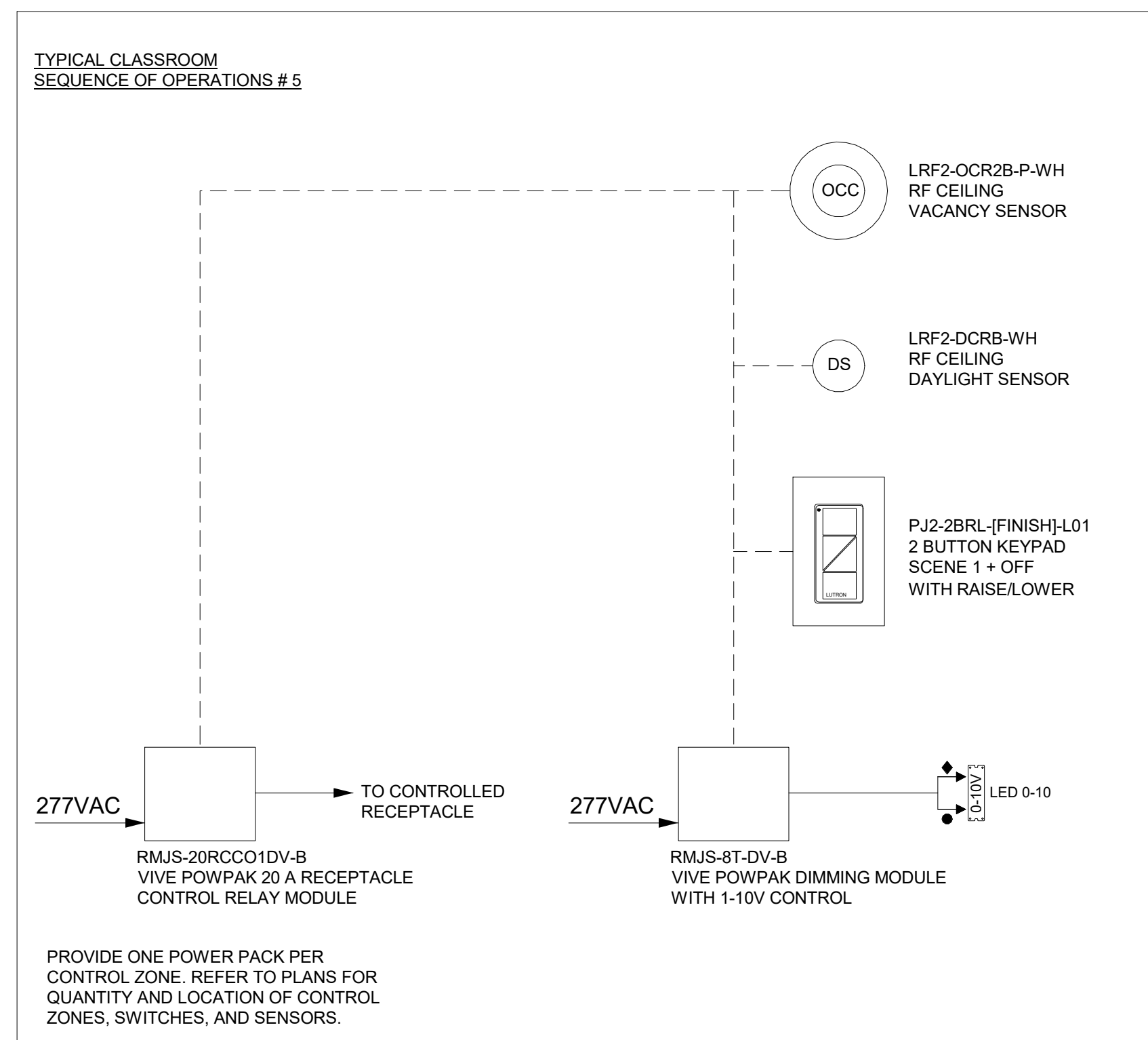
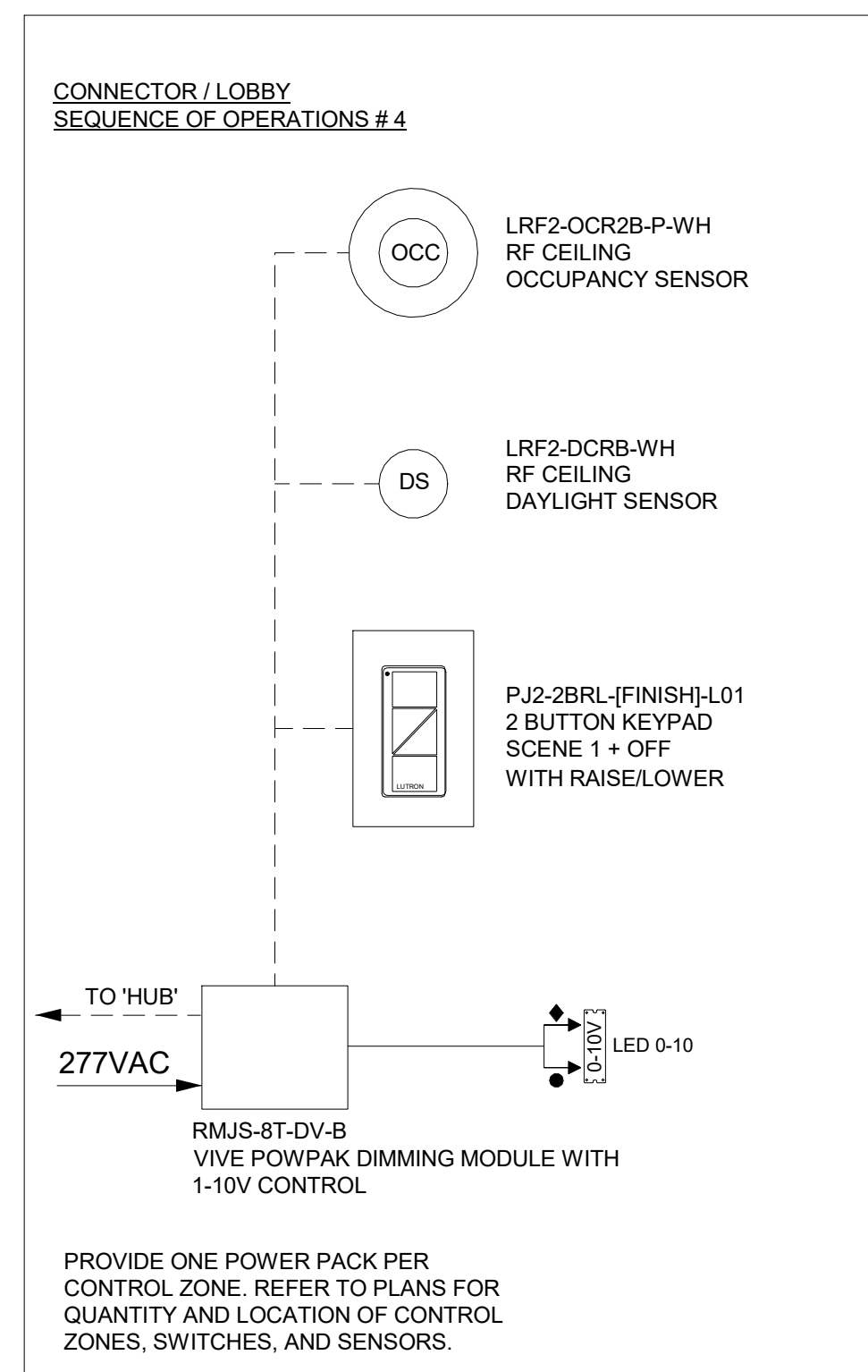
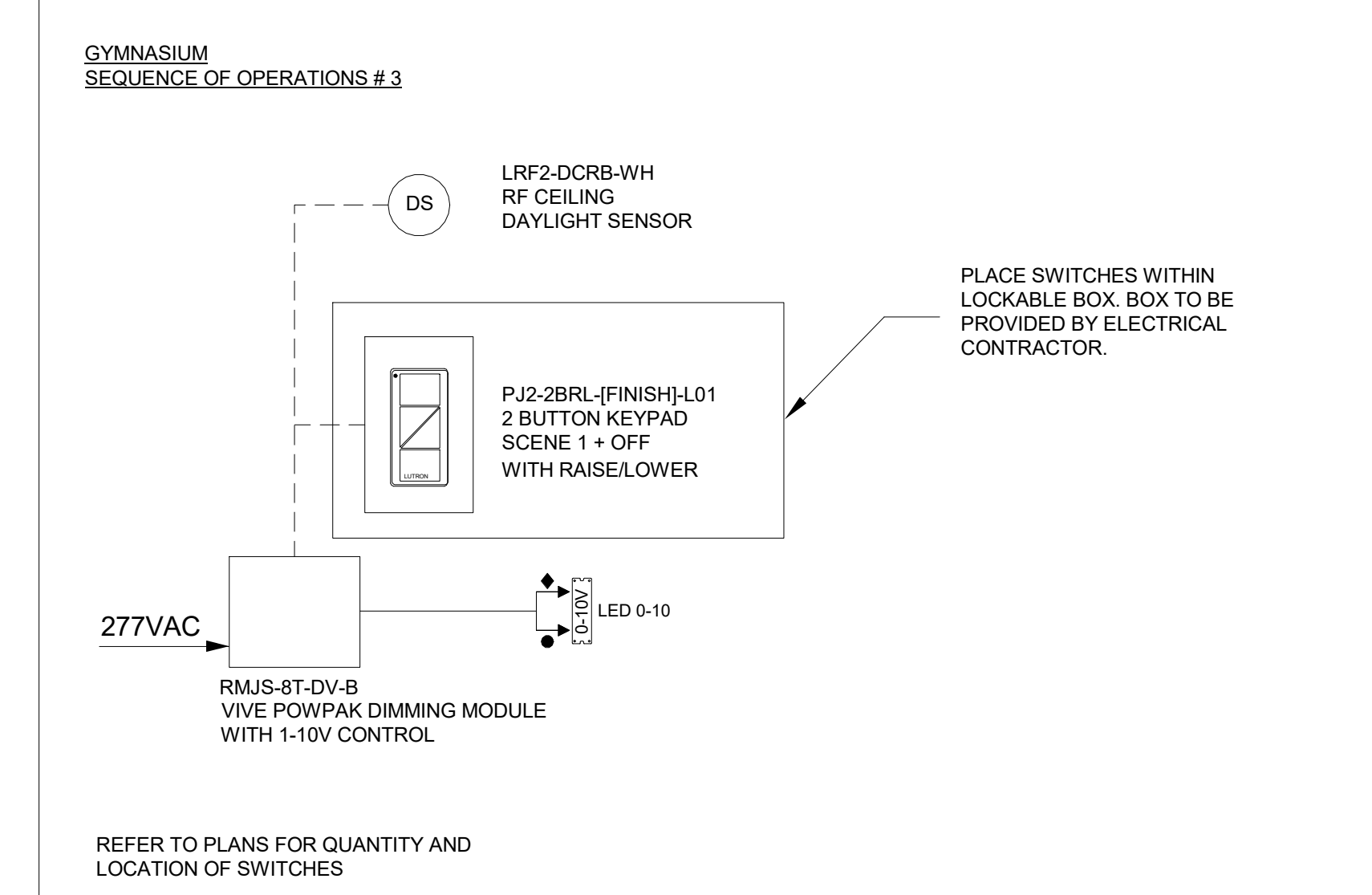
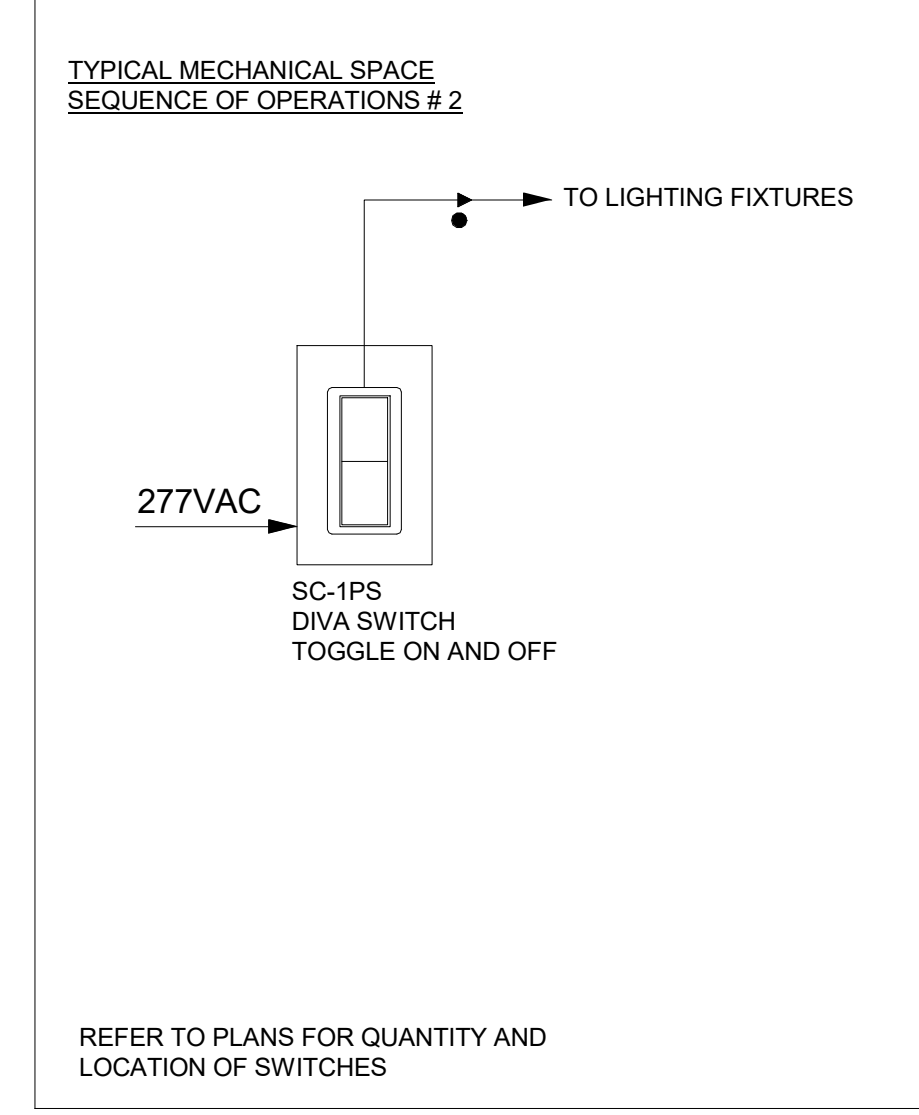
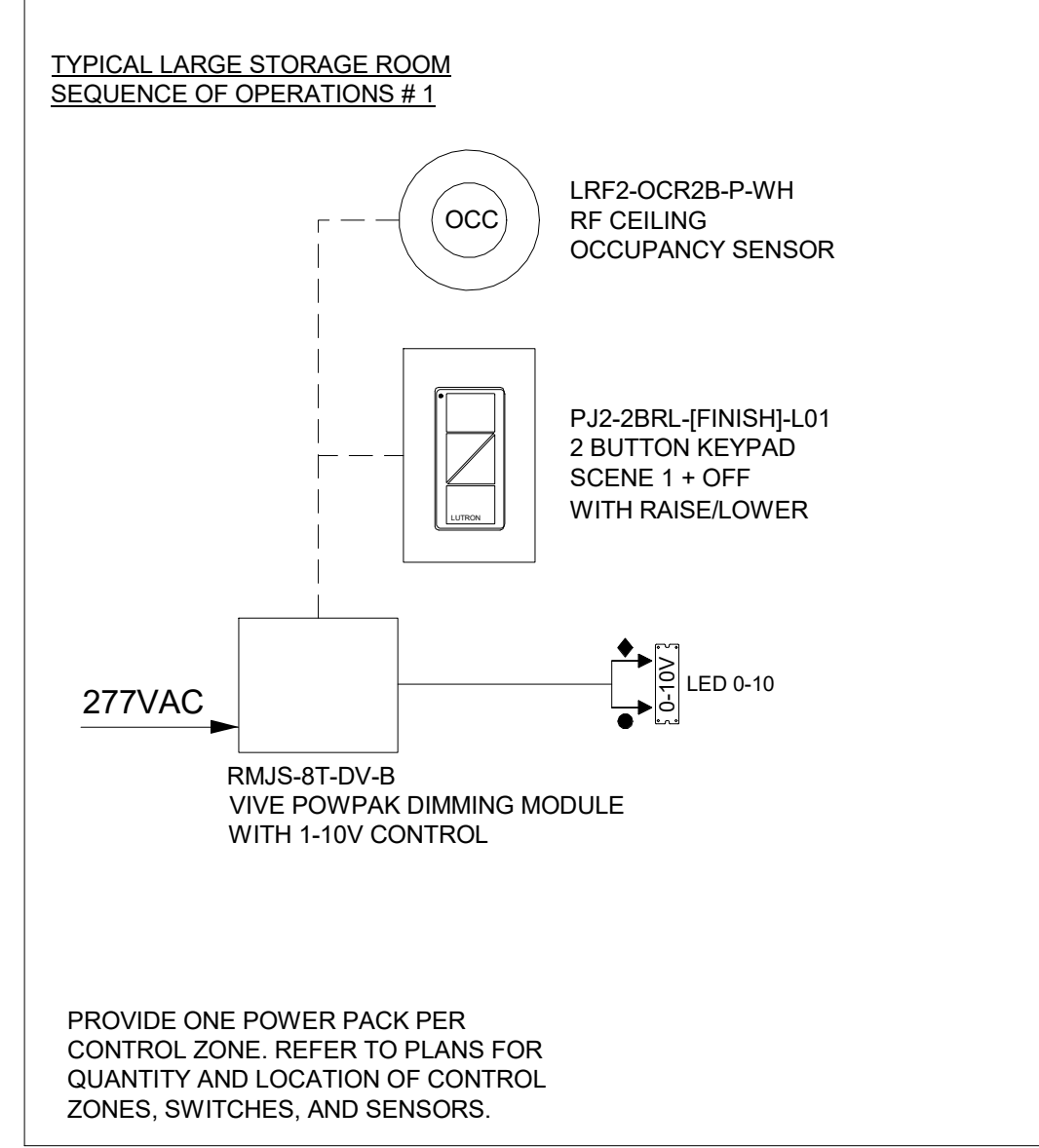
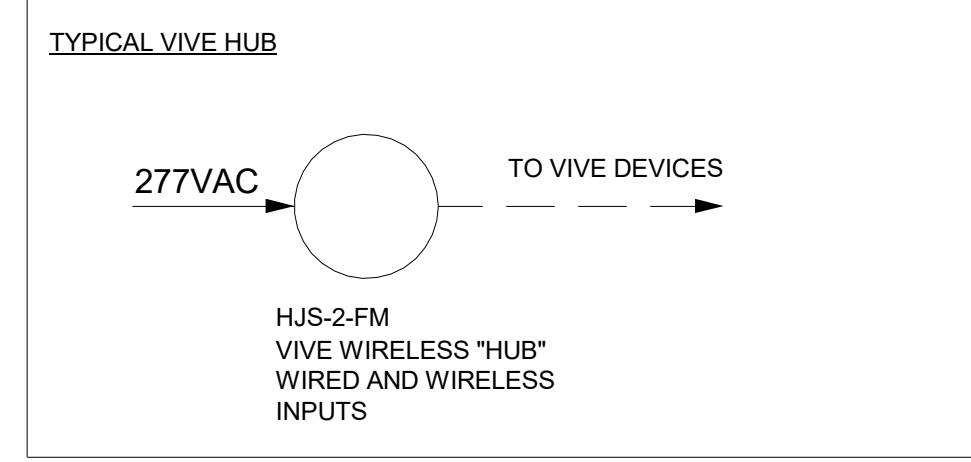
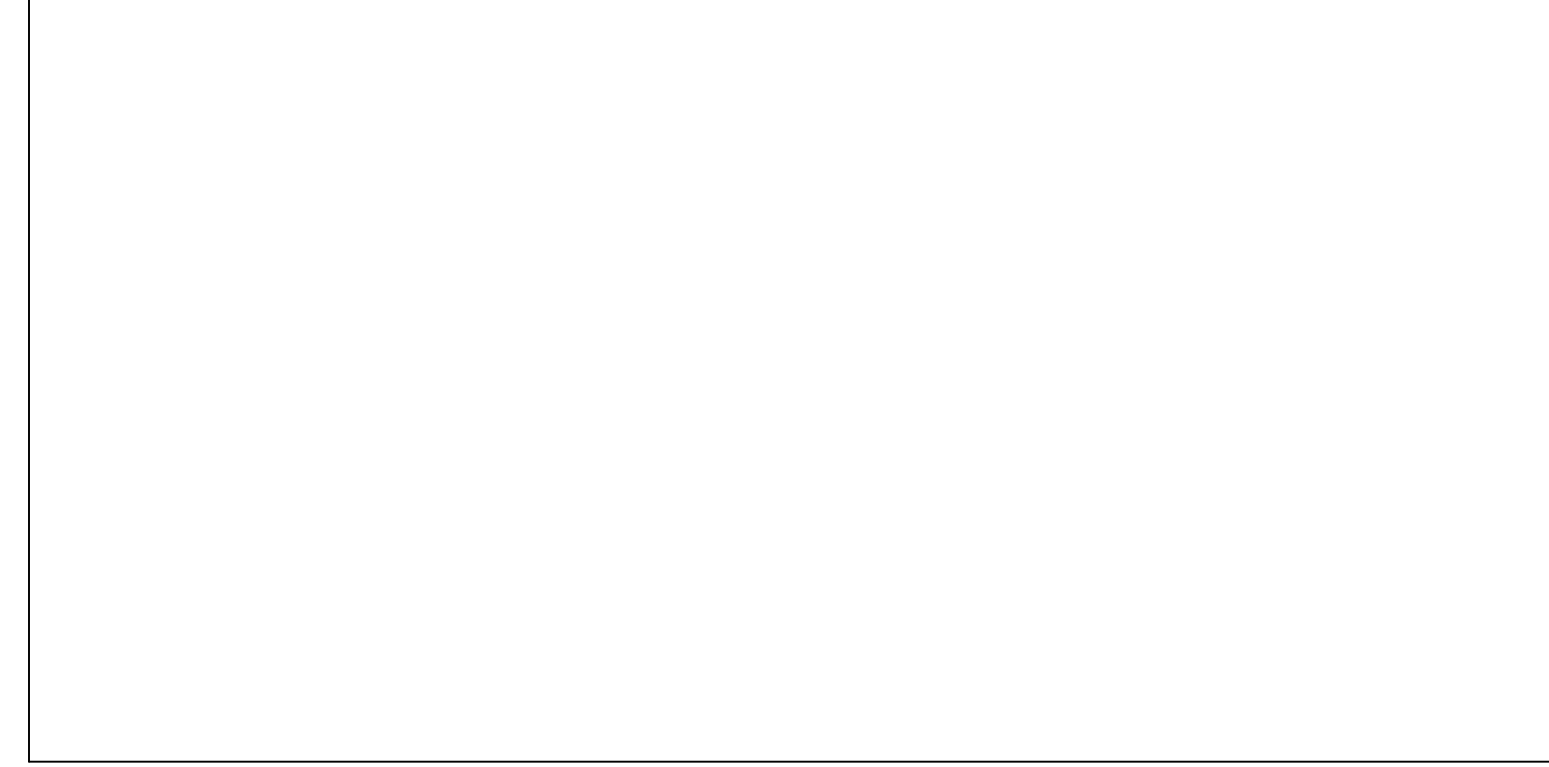
CCT	DESCRIPTION	Load	FRAME SIZE	*TRIP RATING	POLES	BREAKER TYPE	BREAKER RATING	NOTES	CCT NO.
1	SURGE PROTECTION DEVICE	80 VA	100 A	60 A	3	ICCB	80%	LSIG CIRCUIT BREAKER	2
2	DOAS-1	92090 VA	200 A	125 A	3	ICCB	80%	LSIG CIRCUIT BREAKER	4
3	RTU-1	121650 VA	200 A	150 A	3	ICCB	80%	LSIG CIRCUIT BREAKER	6
4	PLP-H-1	146900 VA	200 A	150 A	3	ICCB	80%	LSIG CIRCUIT BREAKER	8
5	ELV-1	10800 VA	150 A	20 A	3	ICCB	80%	LSIG CIRCUIT BREAKER	10
6	SPARE	0 VA	100 A	100 A	3	ICCB	80%	LSIG CIRCUIT BREAKER	12
7	PLP-H-B2	68780 VA	250 A	200 A	3	ICCB	80%	LSIG CIRCUIT BREAKER	14
8	PLP-H-B1	116000 VA	250 A	200 A	3	ICCB	80%	LSIG CIRCUIT BREAKER	16
9	T-B2	57680 VA	250 A	125 A	3	ICCB	80%	LSIG CIRCUIT BREAKER	18
10	SPACE	--	--	--	3				20
11	FUTURE PV SYSTEM	--	600A	600A	3	ICCB	80%	LSIG CIRCUIT BREAKER	22
12	SPARE	0 VA	150 A	100 A	3	ICCB	80%	LSIG CIRCUIT BREAKER	24
TOTAL CONN. LOAD:		614 kVA		519 kVA					
TOTAL AMPS:		738 A		625 A					

Notes:
1. PROVIDE SHUNT TRIP BREAKER FOR ELEVATOR CIRCUIT #5.

PANEL BOARD: PLP-H-B1			
LOCATION: ELECTRICAL B05	VOLTS: 480/277 Wye	A.I.C. Rating: 22,000	NEUTRAL BUS: STANDARD, COPPER
MOUNTING TYPE: SURFACE	PHASES: 3	MAINS TYPE: MLO	GROUND BUS: STANDARD, COPPER
ENCLOSURE: NEMA 1	WIRES: 4	MAINS: 200 A	
FED FROM: MSB	MCB TYPE: COPPER	MCB RATING: 200 A	

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	EUH-0.1, EUH-0.2	20 A	3	3333 VA	1667 VA			3	15 A	2
3	--	--	--	--	3333 VA	1667 VA		--	--	4
5	--	--	--	--	3333 VA	1667 VA		--	--	6
7	EUH-0.4	15 A	3	1667 VA	3333 VA			3	20 A	8
9	--	--	--	--	1667 VA	3333 VA		--	--	10
11	--	--	--	--	1667 VA	3333 VA		--	--	12
13	EUH-0.7, EUH-0.8	20 A	3	3333 VA	1667 VA			3	15 A	14
15	--	--	--	--	3333 VA	1667 VA		--	--	16
17	--	--	--	--	3333 VA	1667 VA		--	--	18
19	CUH-1.6, CUH-1.7	20 A	3	1667 VA	3333 VA			3	20 A	20
21	--	--	--	--	1667 VA	3333 VA		--	--	22
23	--	--	--	--	1667 VA	3333 VA		--	--	24
25	CUH-2.1	15 A	3	1667 VA	3333 VA			3	20 A	26
27	--	--	--	--	1667 VA	3333 VA		--	--	28
29	--	--	--	--	1667 VA	3333 VA		--	--	30
31	EUH-3.3	15 A	3	1667 VA	3500 VA			3	20 A	32
33	--	--	--	--	1667 VA	3500 VA		--	--	34
35	--	--	--	--	1667 VA	3500 VA		--	--	36
37	EW-2	20 A	3	3500 VA	1667 VA			3	15 A	38
39	--	--	--	--	3500 VA	1667 VA		--	--	40
41	--	--	--	--	3500 VA	1667 VA		--	--	42
43	CUH-0.1	15 A	3	1667 VA	1667 VA			3	15 A	44
45	--	--	--	--	1667 VA	1667 VA		--	--	46
47	--	--	--	--	1					

APPROVAL STAMP AREA



WIRE LEGEND

- NORMAL INPUT POWER 2 #12 AWG (4 SQ MM) + GROUND
- NORMAL-EMERGENCY INPUT POWER 2 #12 AWG (4 SQ MM) + GROUND
- 2 #12 AWG (4 SQ MM) + GROUND
- ◆ 0-10 V SIGNAL: 2#18AWG (1.0 SQ MM)
- RF CONNECTION
- WIRED CONNECTION

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303 W Erie Street, Suite 510
Chicago, IL 60654
v 312.916.0557
www.databasedplus.com

DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave
Philadelphia, PA 19143

PROJECT #:	2020
SCALE:	1/2" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	LL
CHECKED:	JC
DATE:	4/7/2023

SHEET NAME:
LIGHTING CONTROL SCHEDULES

SHEET NUMBER:
E521

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

Revit version 2022.1 | C:\Users\KStrickland\Documents\Francis J. Myers_MEPPF_R02_istickland\WCAT.rvt
2020 Francis J. Myers Title Block version 2022.09.14 | Printed: 4/28/2023 9:42:34 AM

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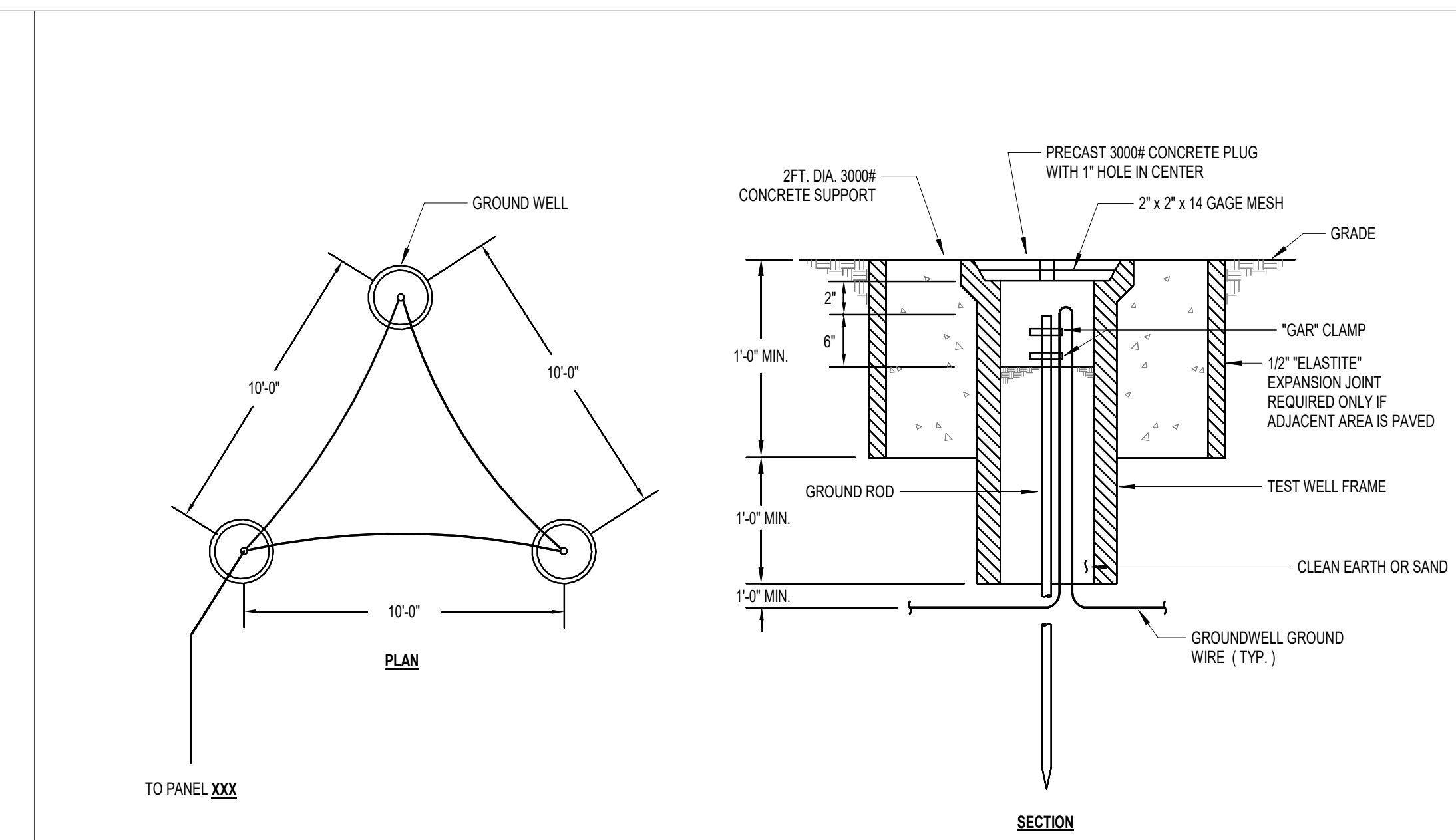
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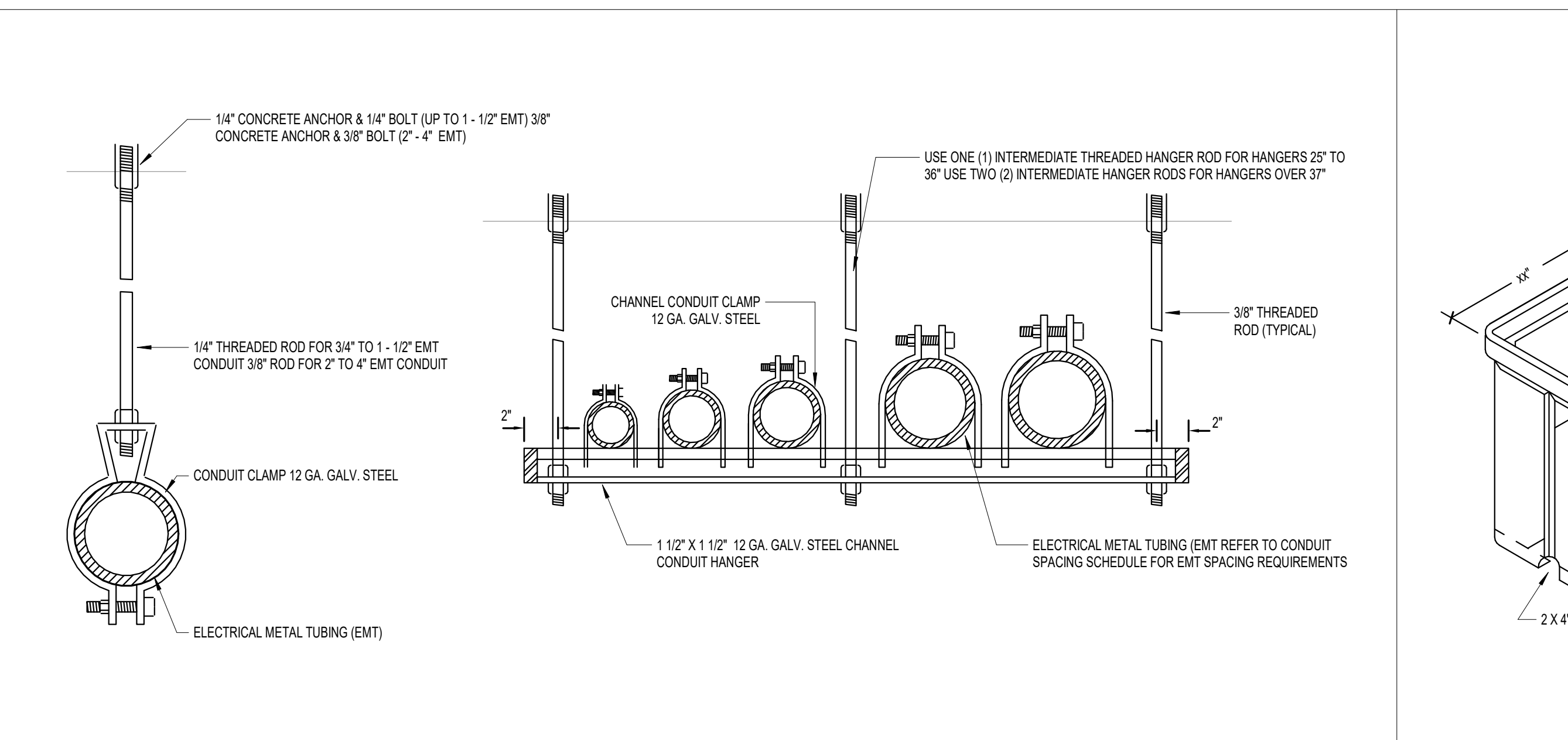
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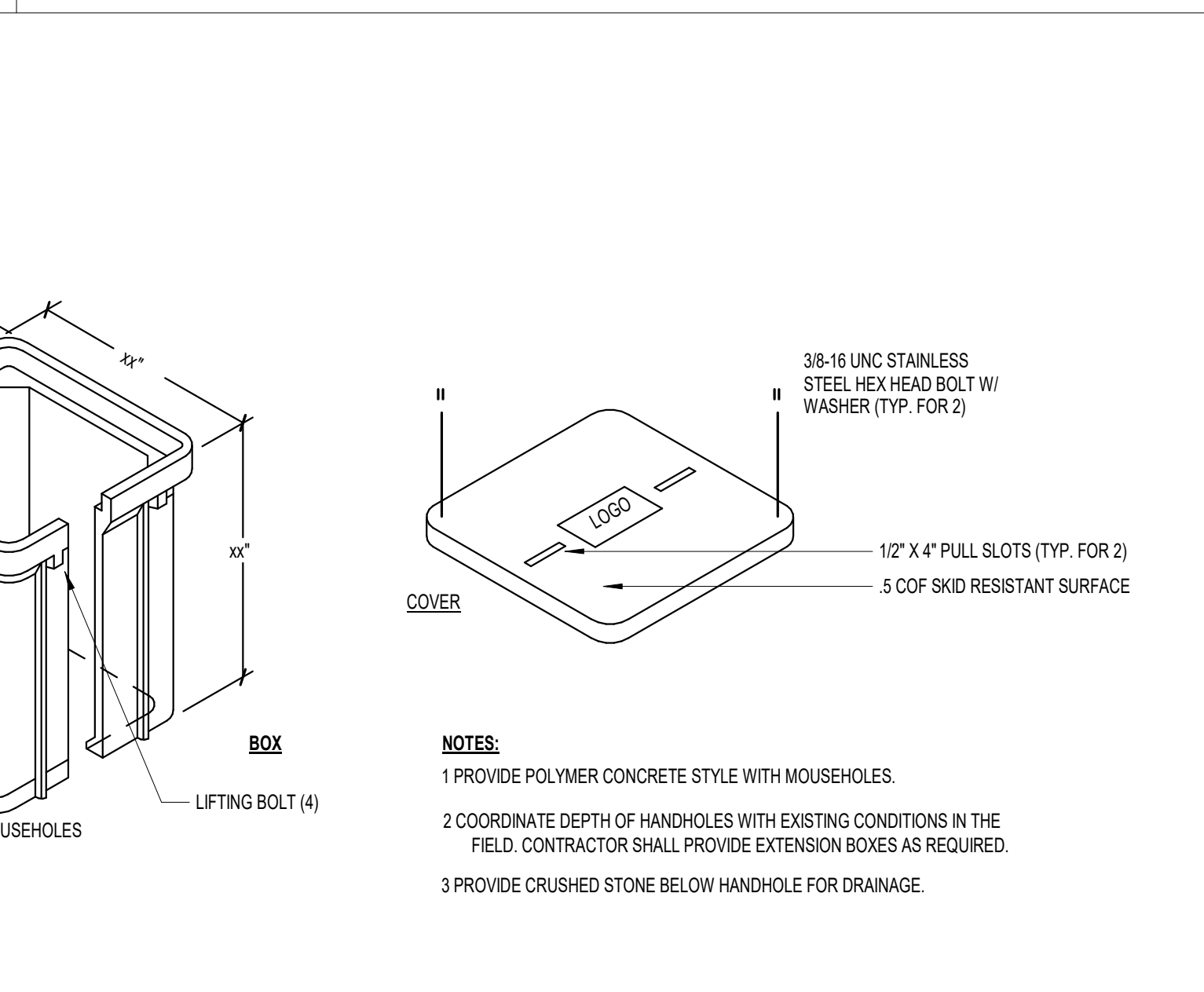
11 RECEPTACLE PANEL GROUNDING DIAGRAM
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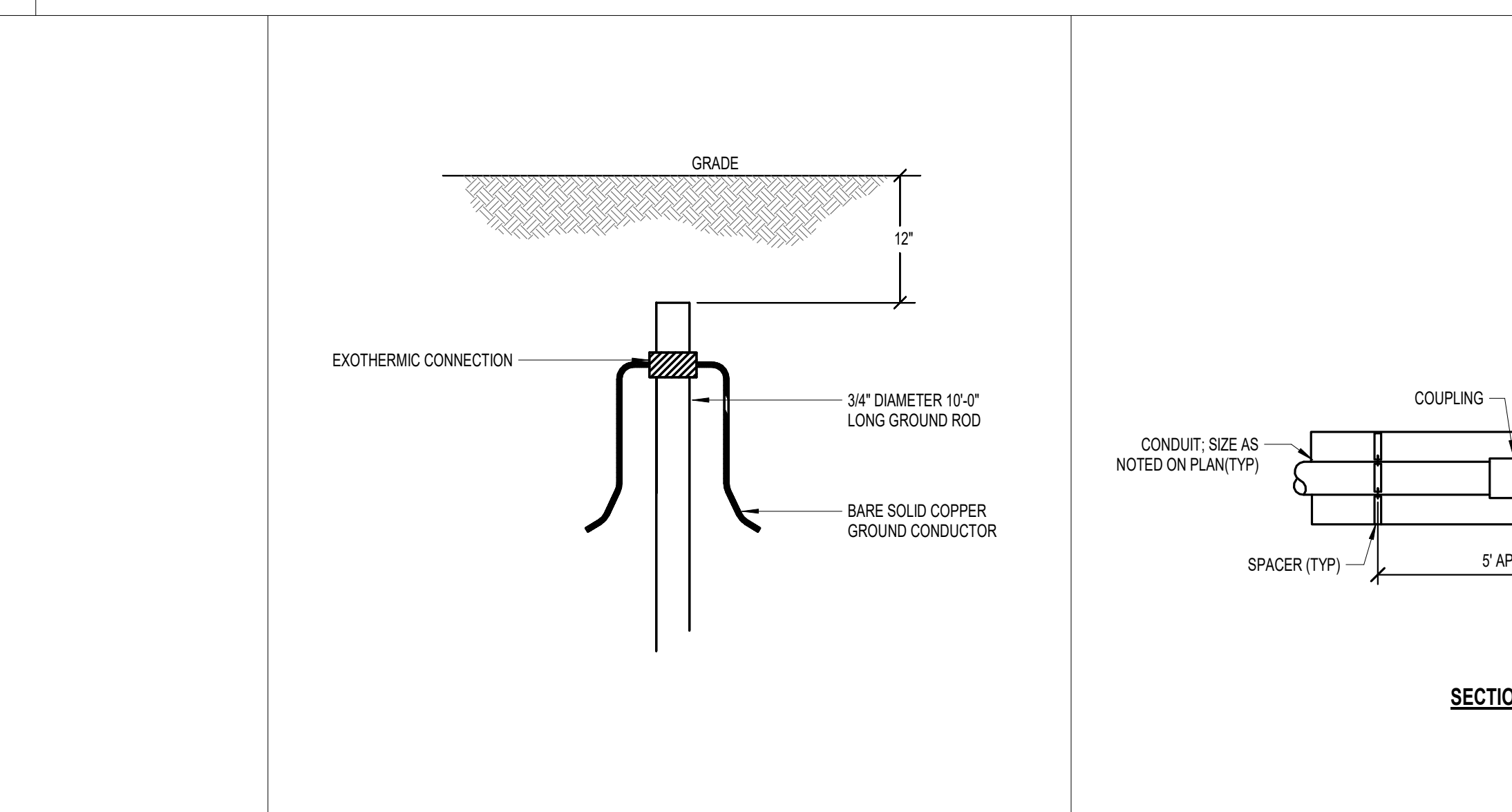
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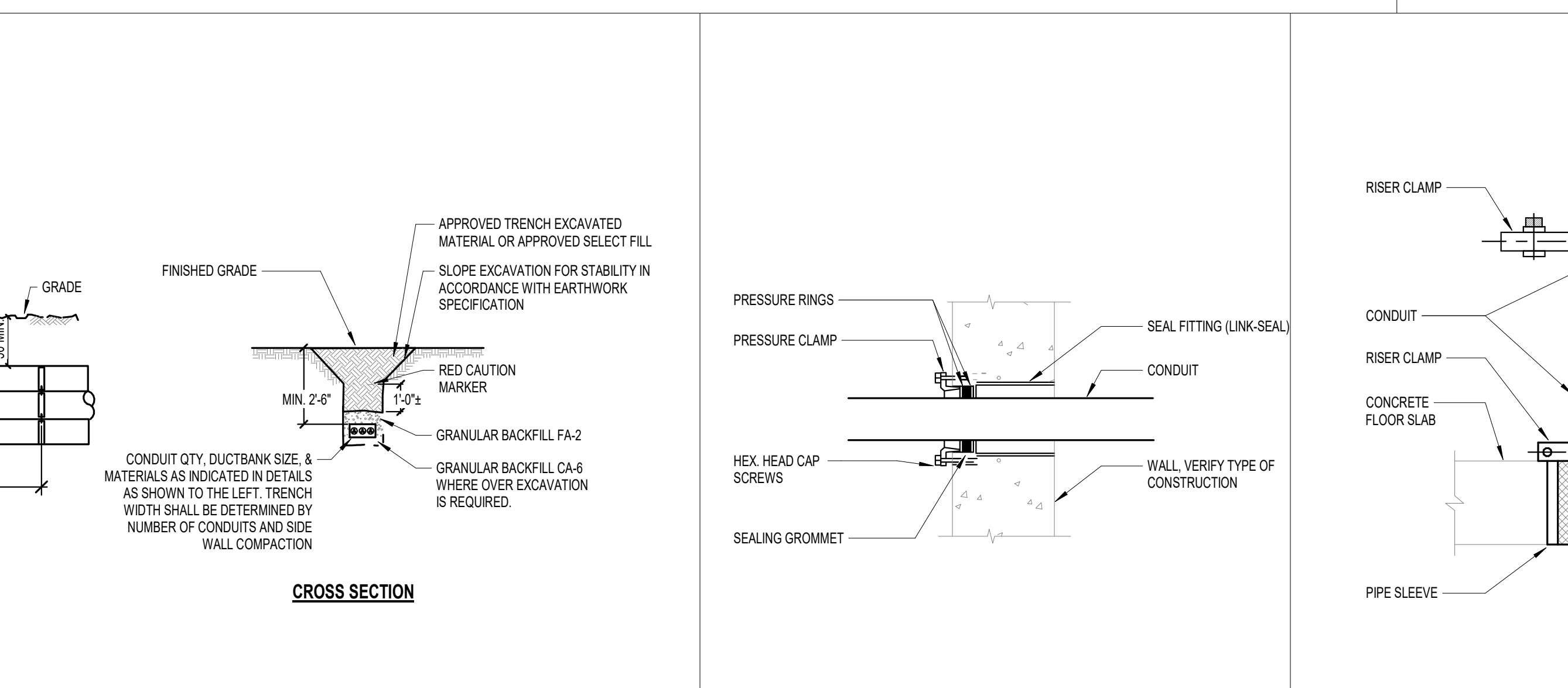
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 NTS



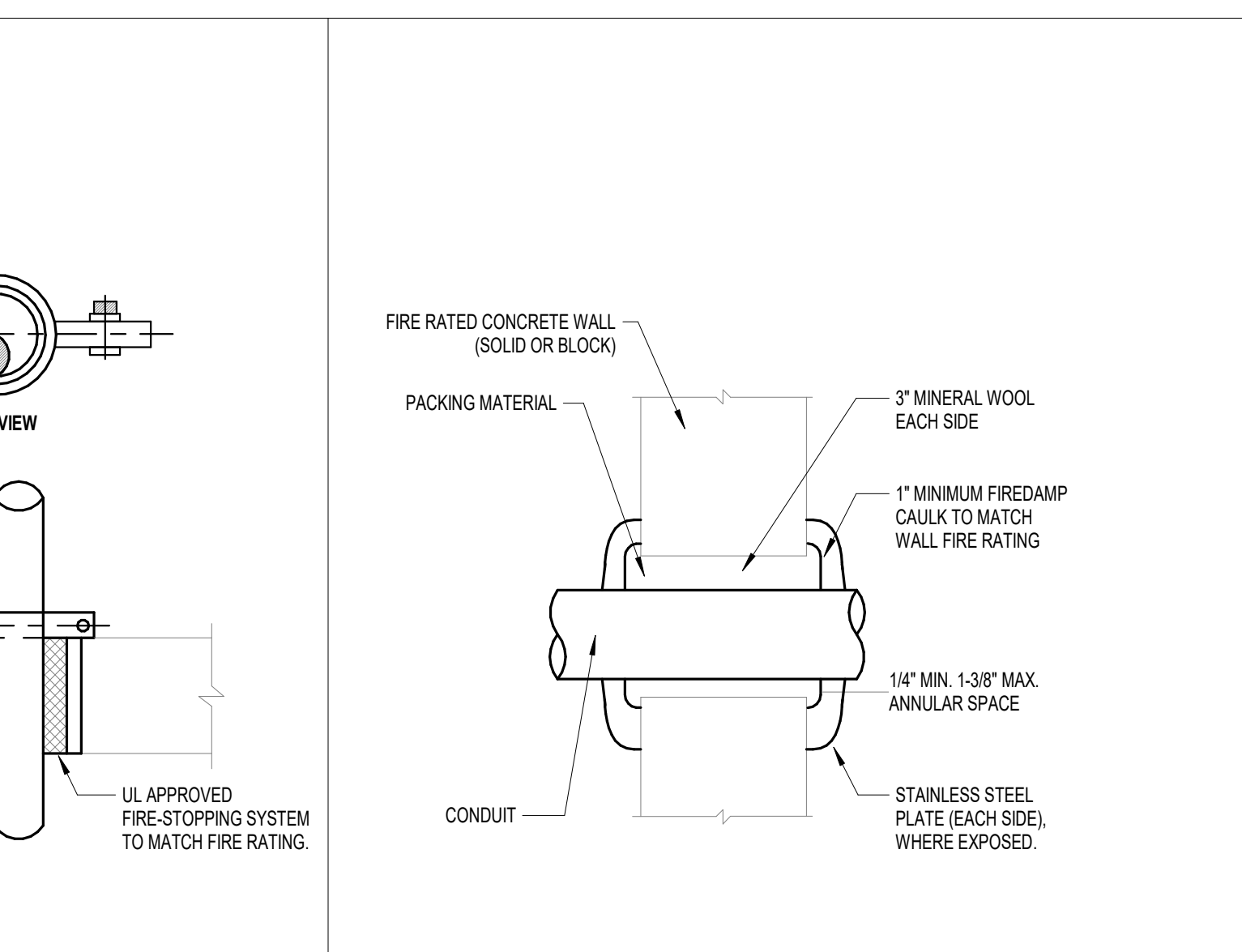
8 ELECTRICAL GROUND ROD/FIELD AND TEST WELLS
 NTS



7 TYPICAL SINGLE & MULTIPLE SINGLE ROW CONDUIT HANGER
 NTS



6 SITE HAND HOLE DETAIL
 NTS



5 GROUND ROD CONNECTION
 NTS



4 NON-CONCRETE UNDERGROUND CONDUITS
 NTS



3 FOUNDATION CONDUIT PENETRATION
 NTS



2 CONDUIT INTERIOR FLOOR PENETRATION
 NTS



1 CONDUIT INTERIOR CONCRETE WALL PENETRATION
 NTS



DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave
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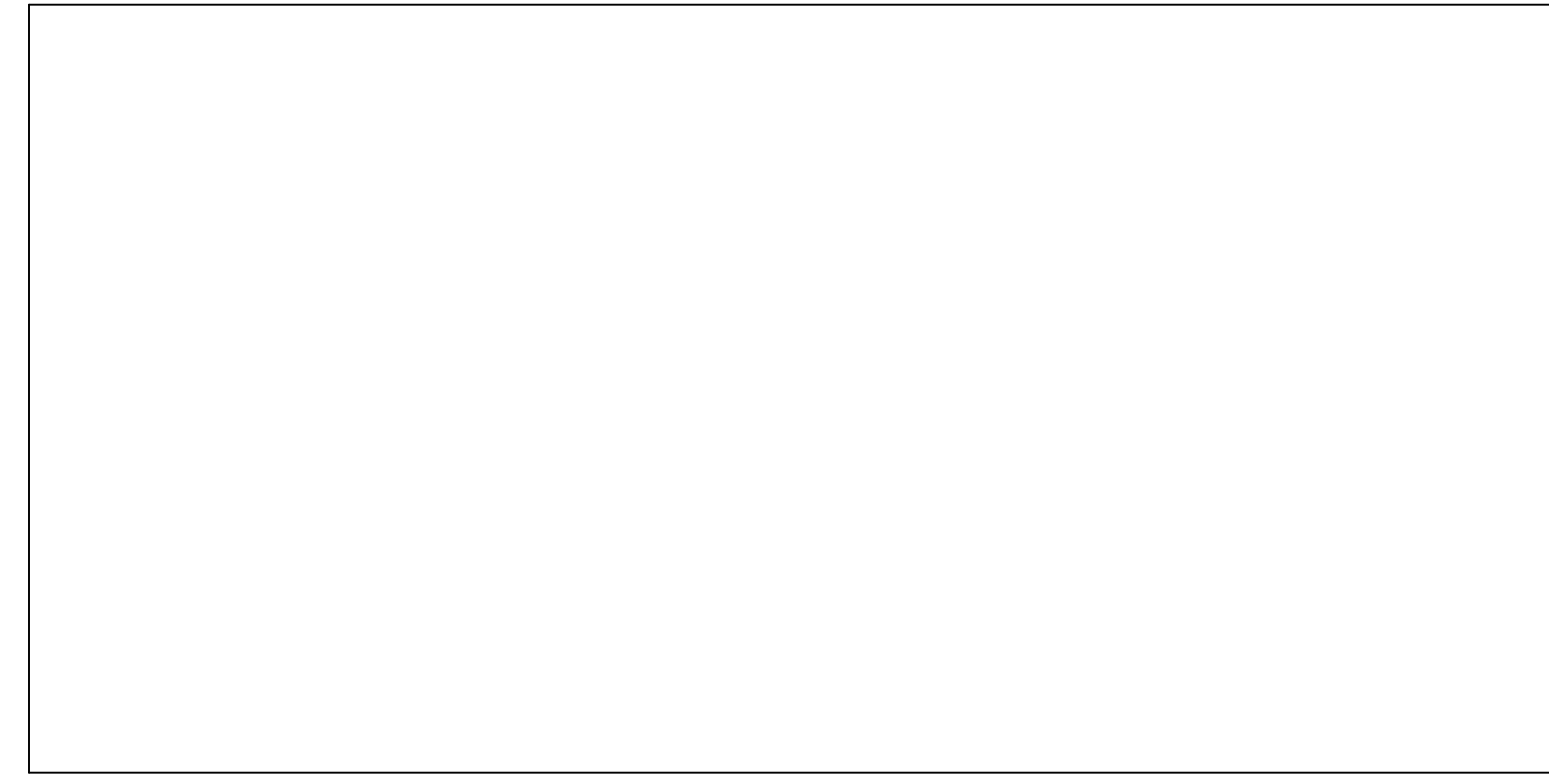
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CHECKED:	JC
DATE:	4/7/2023

SHEET NAME:
ELECTRICAL DETAILS

SHEET NUMBER:
E600

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



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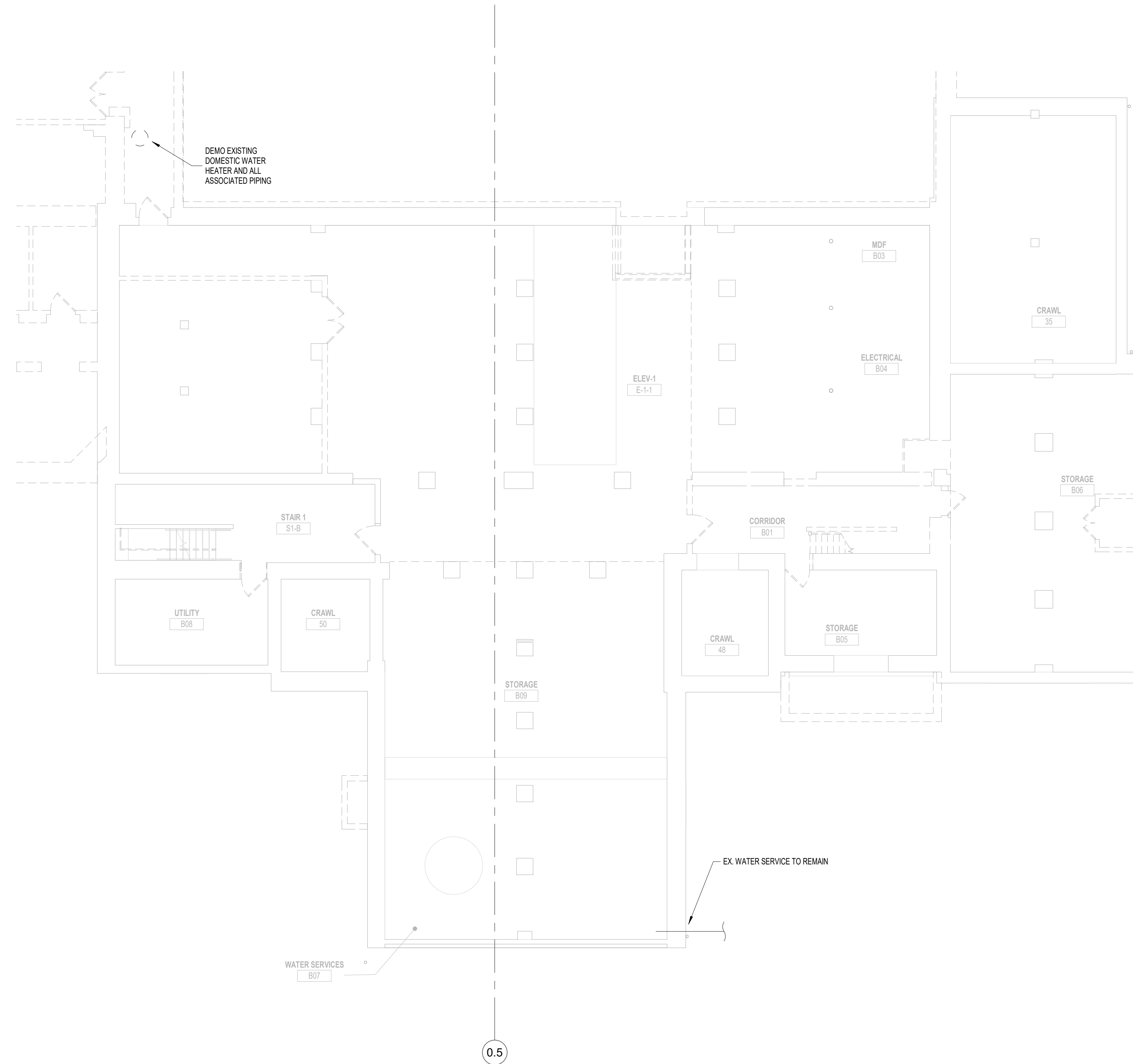
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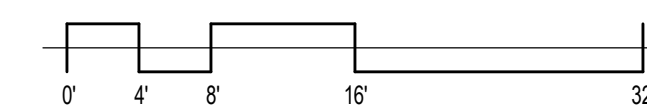
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1 BASEMENT- PLUMBING DEMO PLAN
1/8" = 1'-0"



DATE:	DESCRIPTION:

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SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

SHEET NAME:
BASEMENT - PLUMBING DEMOLITION PLAN

SHEET NUMBER:
PD200

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA

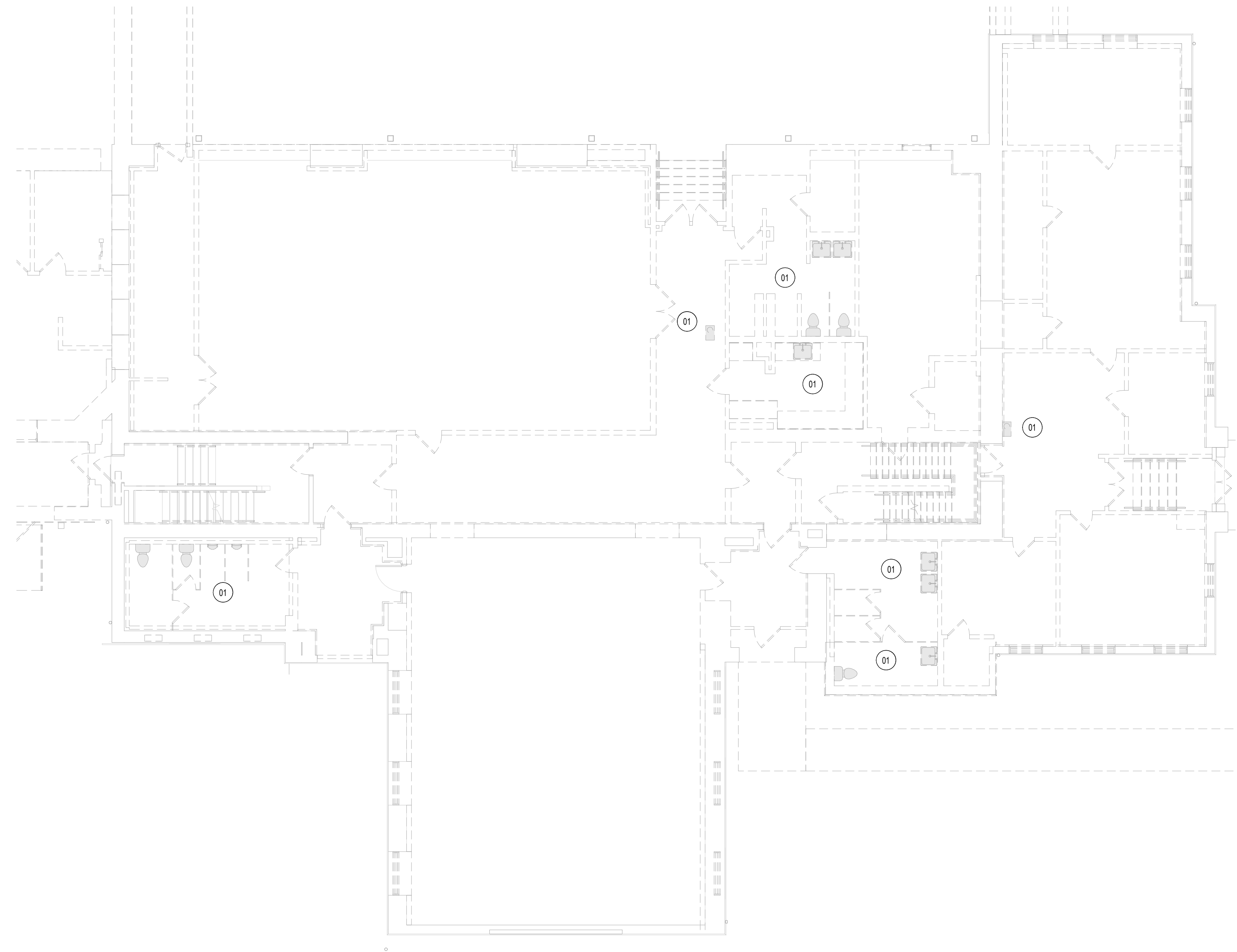


PLUMBING DEMO SHEET KEY NOTES:

01 DEMO EXISTING PLUMBING FIXTURES, FIXTURE SUPPORTS AND APPURTENANCE, DEMO SUPPLY, WASTE AND VENT PIPING BACK TO MANS.

PLUMBING DEMO SHEET GENERAL NOTES:

1. DEMO ALL EXISTING SANITARY BRANCH AND MAIN PIPING BACK TO SERVICE EXIT, CAP EXISTING SANITARY EXIT AND PREPARE FOR CONNECTION FROM NEW SANITARY MAIN.
2. DEMO ALL EXISTING VENT PIPING BACK TO LEVEL 3 VENT MANS, ALL EXISTING VENT-THRU-ROOFS (VTRS) TO REMAIN IN PLACE.
3. DEMO ALL EXISTING DOMESTIC SUPPLY PIPING BACK TO SERVICE ENTRANCE, CAP EXISTING SUPPLY SERVICE ENTRANCE AND PREPARE FOR CONNECTION TO NEW SUPPLY PIPING.



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DATE:	DESCRIPTION:

**FRANCIS J. MYERS
 RECREATION CENTER
 SITE AND BUILDING
 IMPROVEMENTS**

5800 Chester Ave
 Philadelphia, PA 19143

PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

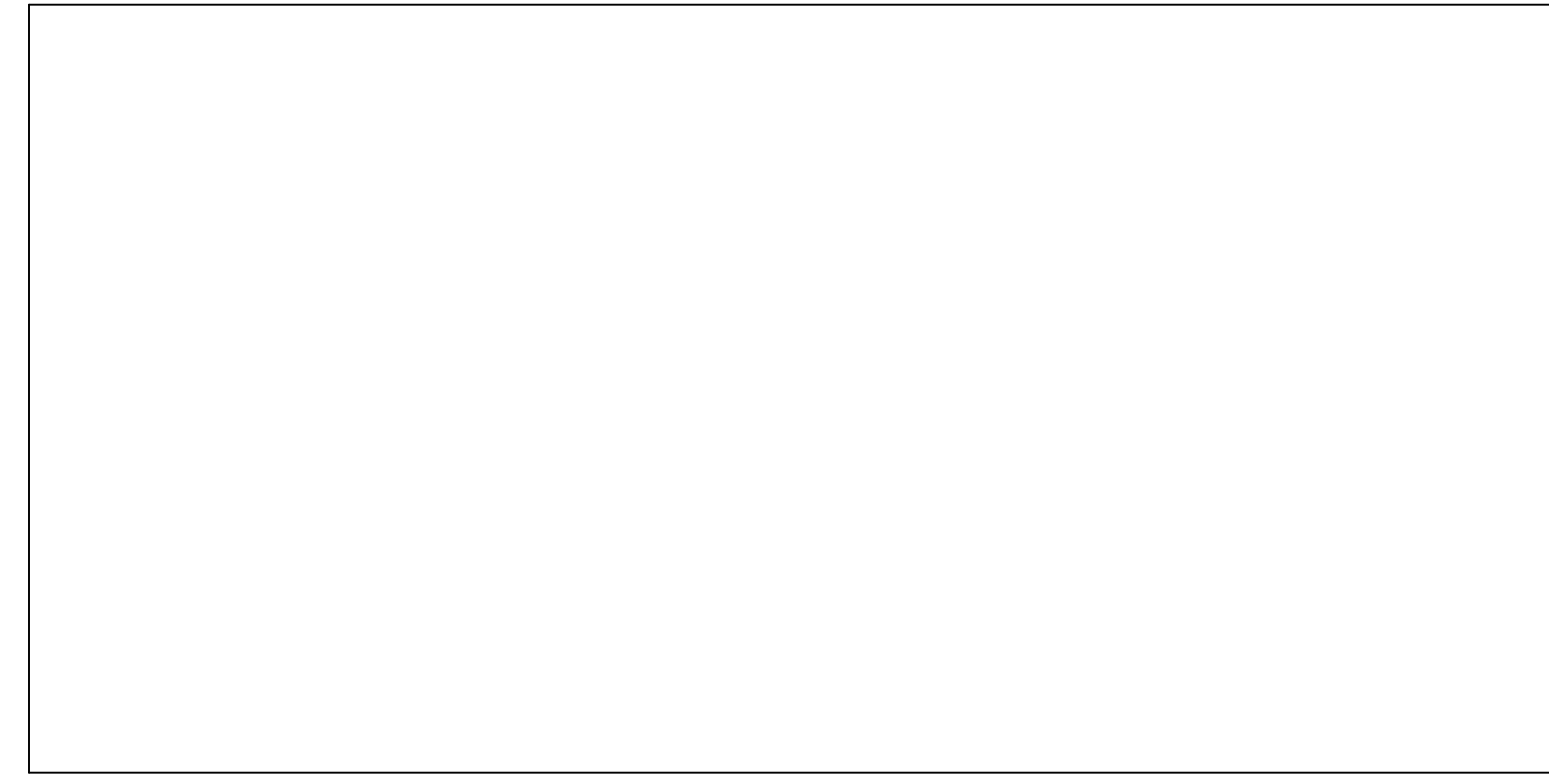
SHEET NAME:
**LEVEL 1 -
 RENOVATION
 PLUMBING
 DEMOLITION PLAN**

SHEET NUMBER:
PD220

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

1 LEVEL 1 RENOVATION - PLUMBING DEMO PLAN
 NTS

APPROVAL STAMP AREA



PLUMBING DEMO SHEET KEY NOTES:

01 DEMO EXISTING PLUMBING FIXTURES, FIXTURE SUPPORTS AND APPURTENANCE, DEMO SUPPLY, WASTE AND VENT PIPING BACK TO MAINS.

PLUMBING DEMO SHEET GENERAL NOTES:

1. DEMO ALL EXISTING SANITARY BRANCH AND MAIN PIPING BACK TO SERVICE EXIT, CAP EXISTING SANITARY EXIT AND PREPARE FOR CONNECTION FROM NEW SANITARY MAIN.
2. DEMO ALL EXISTING VENT PIPING BACK TO LEVEL 3 VENT MAINS, ALL EXISTING VENT-THRU-ROOFS (VTRS) TO REMAIN IN PLACE.
3. DEMO ALL EXISTING DOMESTIC SUPPLY PIPING BACK TO SERVICE ENTRANCE, CAP EXISTING SUPPLY SERVICE ENTRANCE AND PREPARE FOR CONNECTION TO NEW SUPPLY PIPING.

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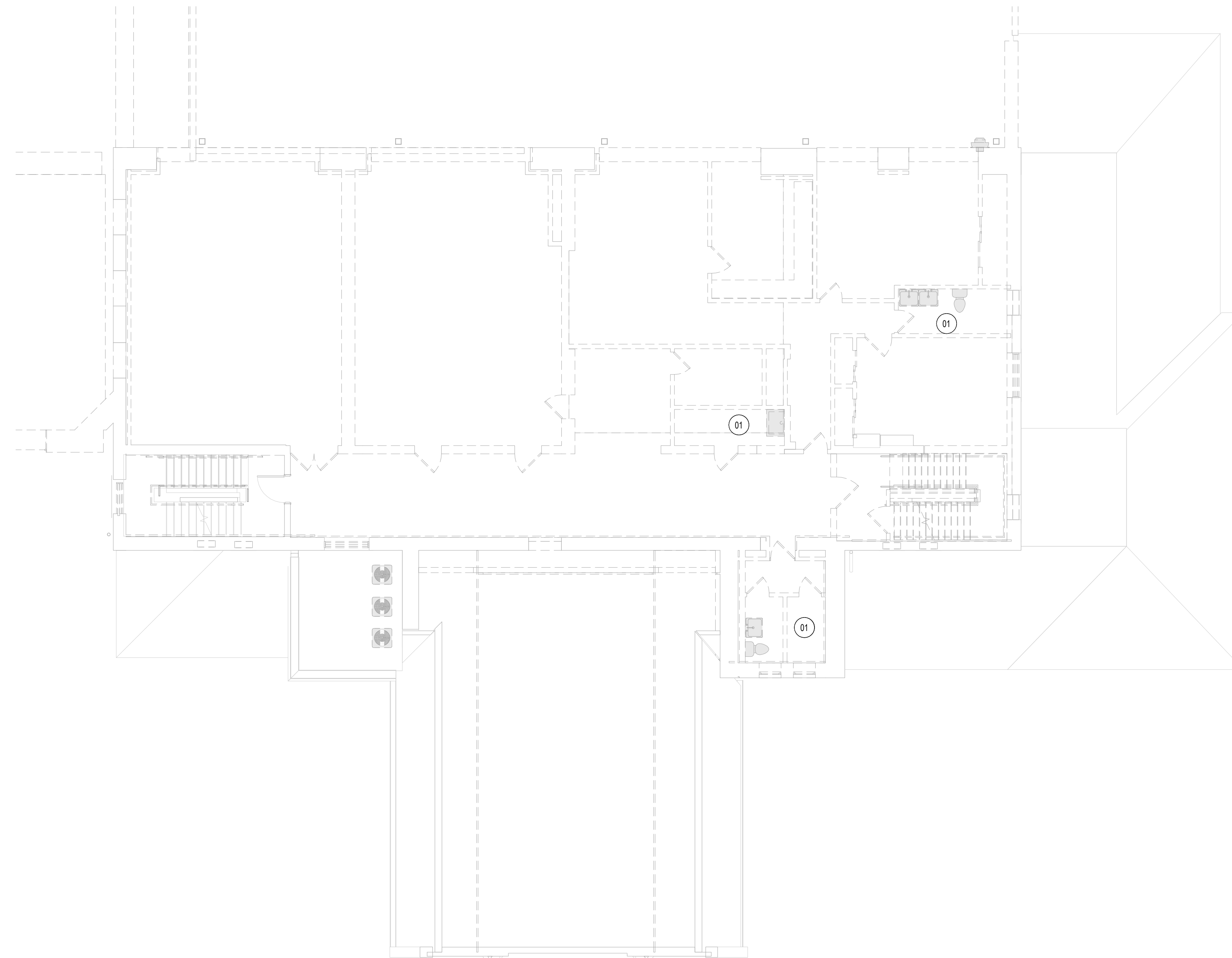
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FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave
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PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

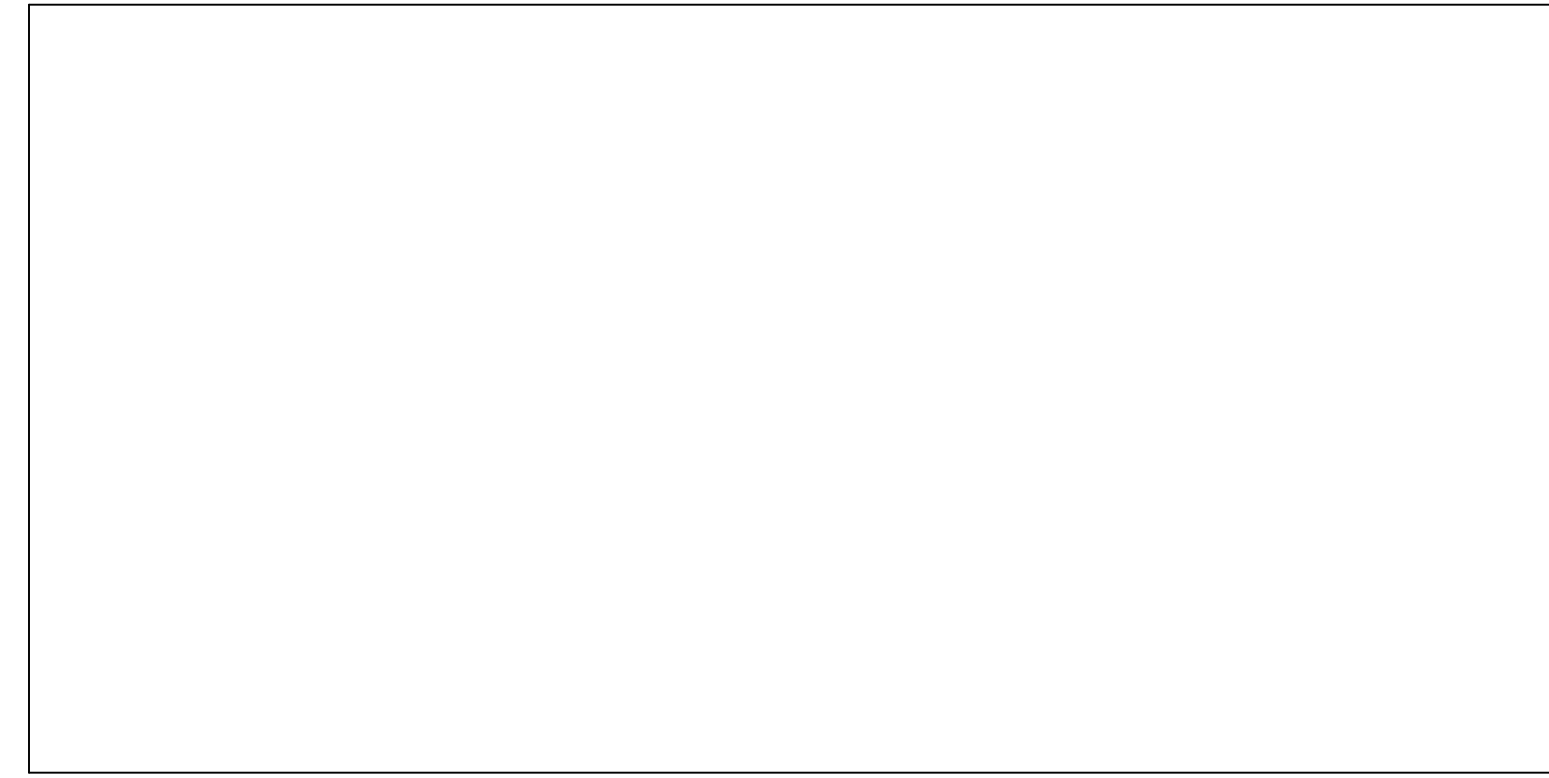
SHEET NAME:
LEVEL 2 - RENOVATION PLUMBING DEMOLITION PLAN

SHEET NUMBER:
PD222

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

1 LEVEL 2 RENOVATION - PLUMBING DEMO PLAN
NTS

APPROVAL STAMP AREA



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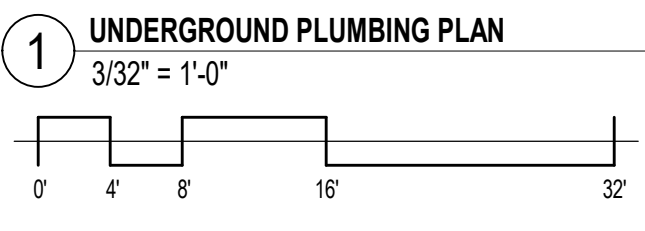
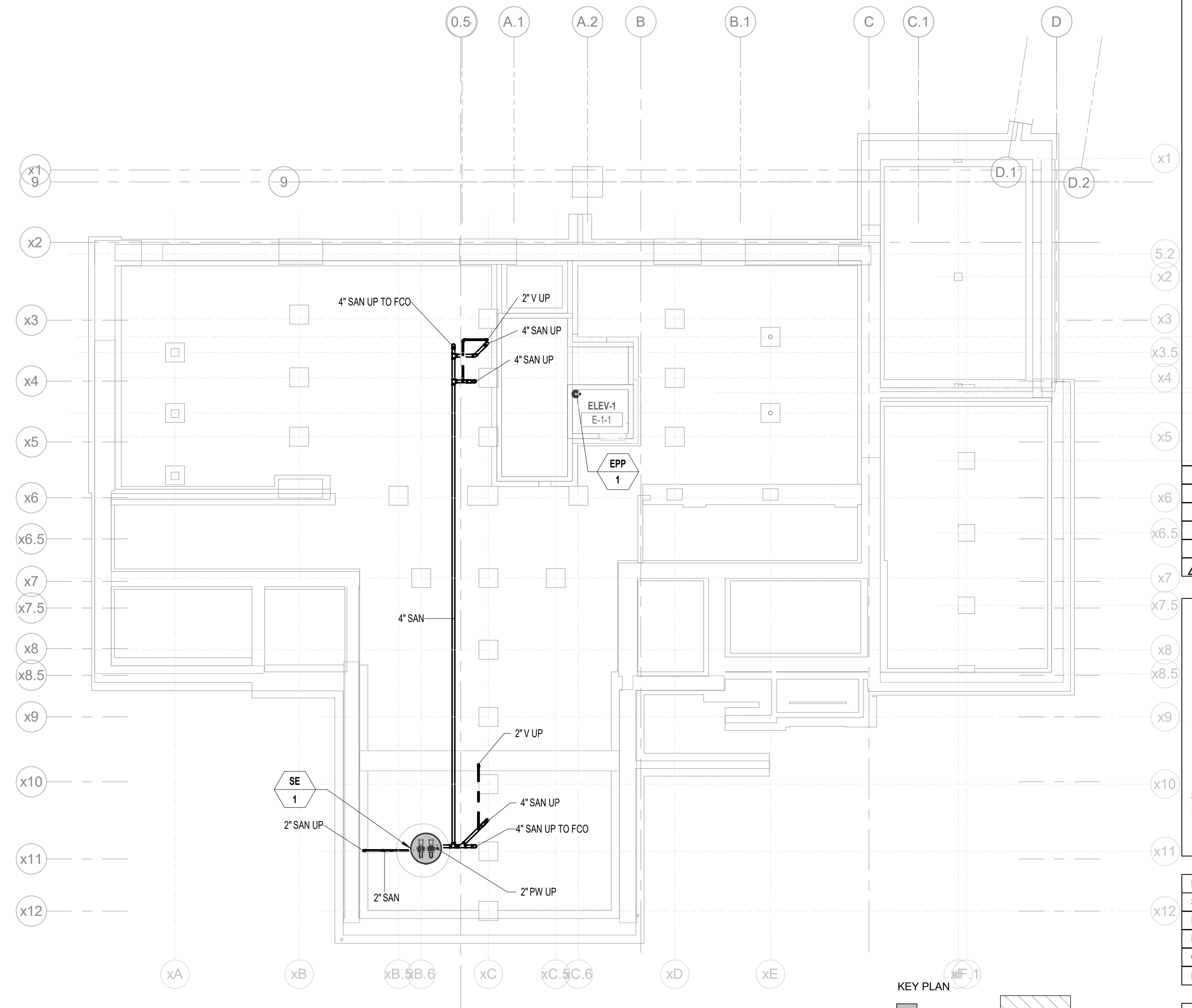
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UNDERGROUND PLUMBING NOTES

00 .

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FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

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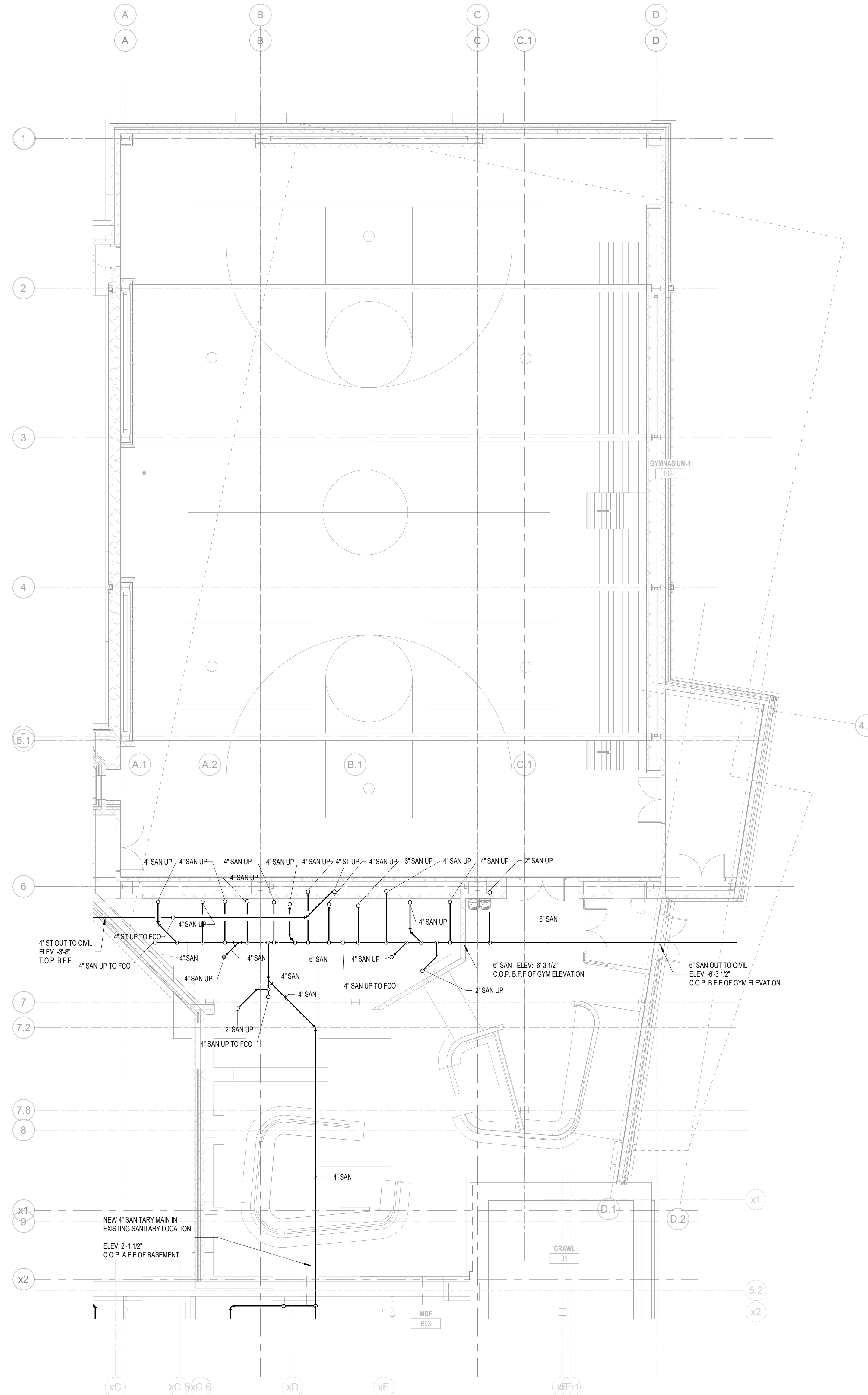
PROJECT #:	2020
SCALE:	3/32" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

SHEET NAME:
UNDERGROUND - PLUMBING PLAN

SHEET NUMBER:
P100 A

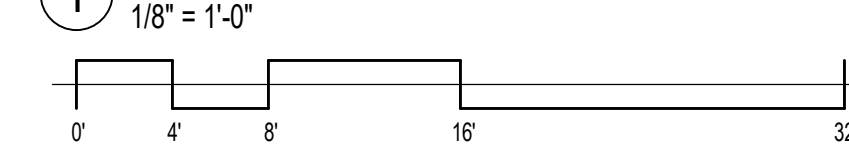
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



KEY PLAN
 [White Box] EXISTING
 [Hatched Box] ADDITION

1 UNDERGROUND - ADDITION PLUMBING PLAN



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PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

SHEET NAME:
UNDERGROUND ADDITION - PLUMBING PLAN

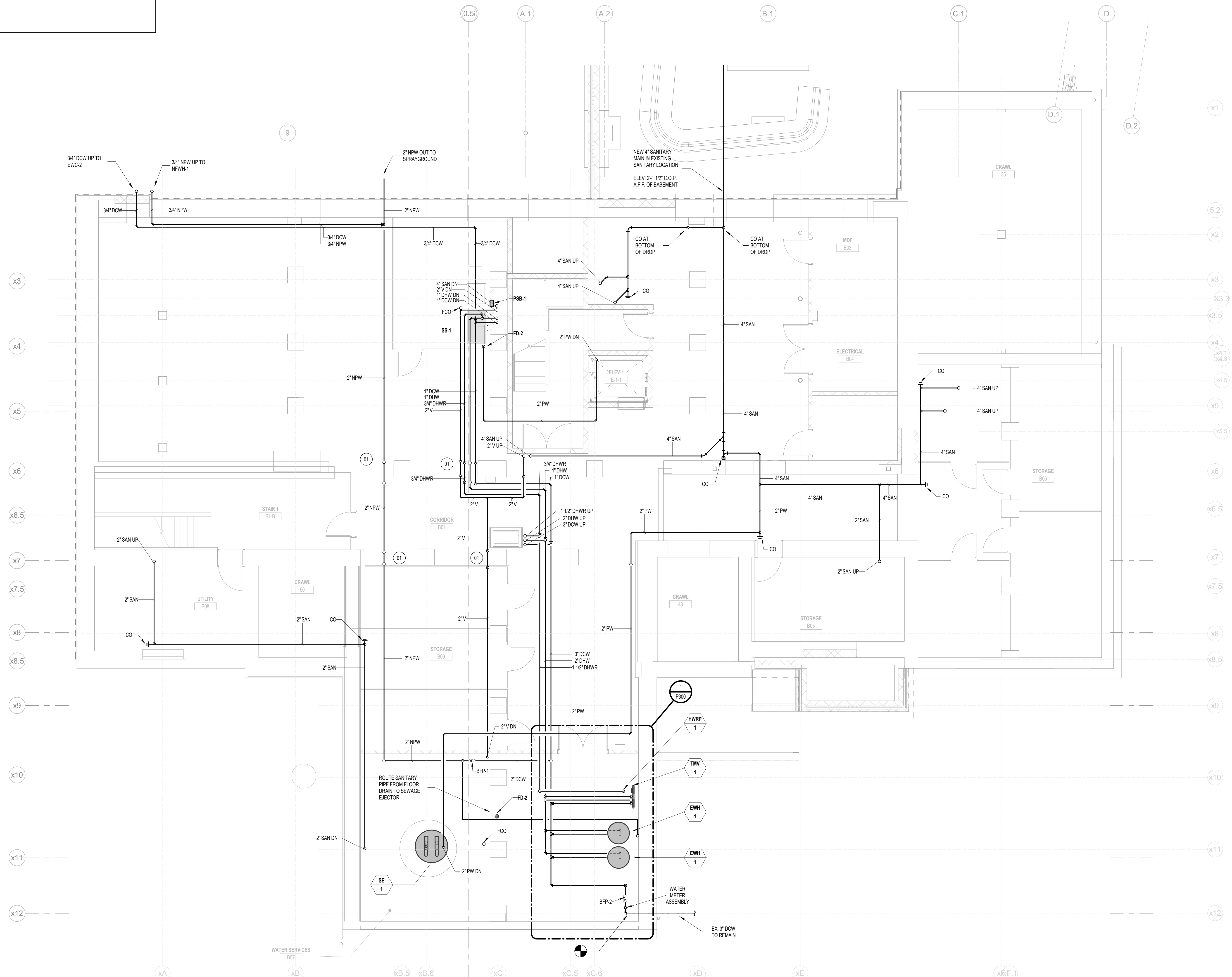
SHEET NUMBER:
P100 B

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA

PLUMBING KEY NOTES:

01 PLUMBING PIPING TO DROP UNDER EXISTING STRUCTURAL BEAM AND BACK UP.



1 BASEMENT-PLUMBING PLAN
3/16" = 1'-0"
0 4 8 16 32

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DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING RENOVATION IMPROVEMENTS

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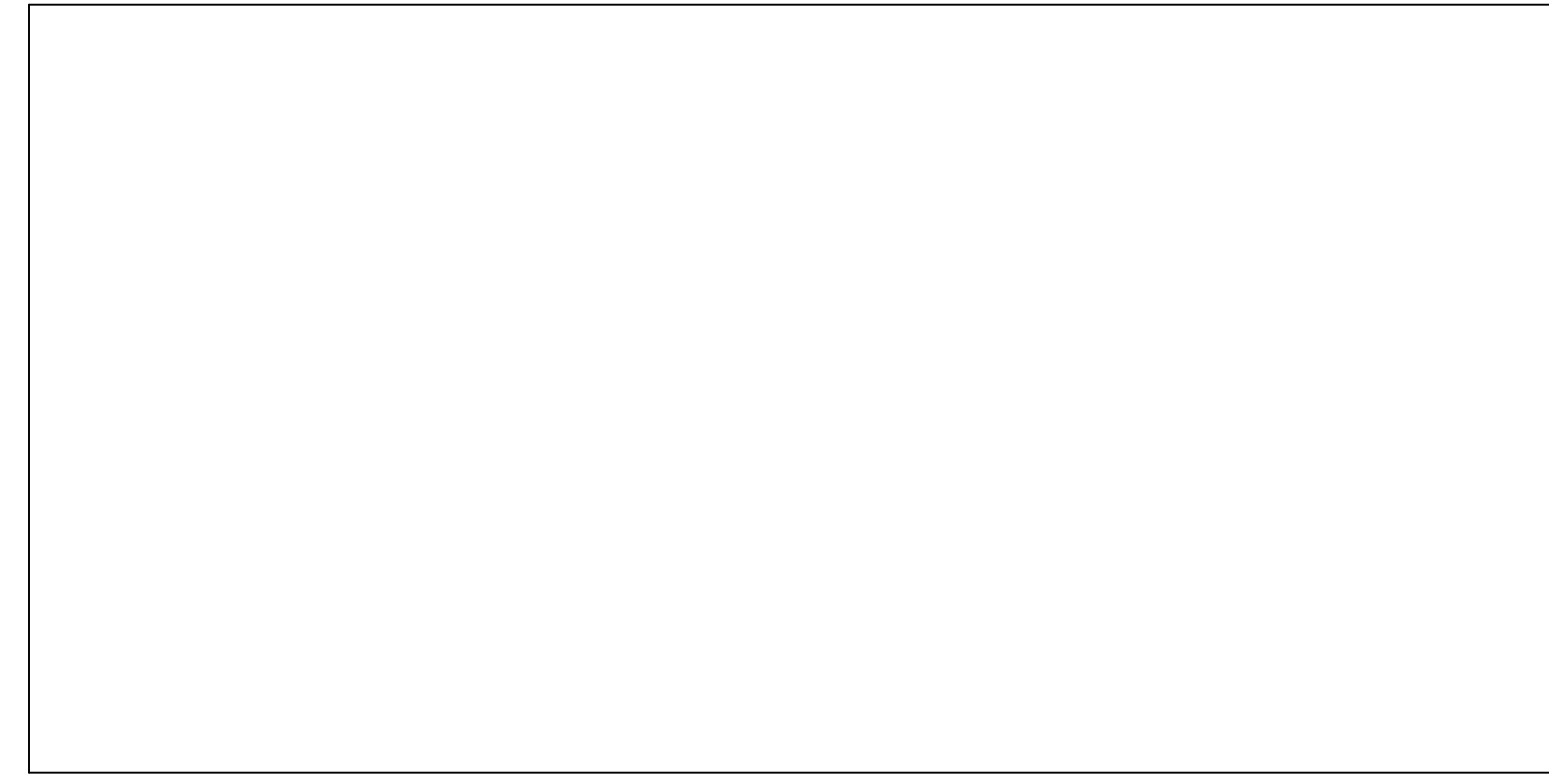
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DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

SHEET NAME:
BASEMENT RENOVATION - PLUMBING PLAN

SHEET NUMBER:
P210 A

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



PLUMBING KEY NOTES:

- 01 PLUMBING PIPING TO DROP UNDER EXISTING STRUCTURAL BEAM / MECHANICAL EQUIPMENT AND DUCTWORK AND BACK UP.

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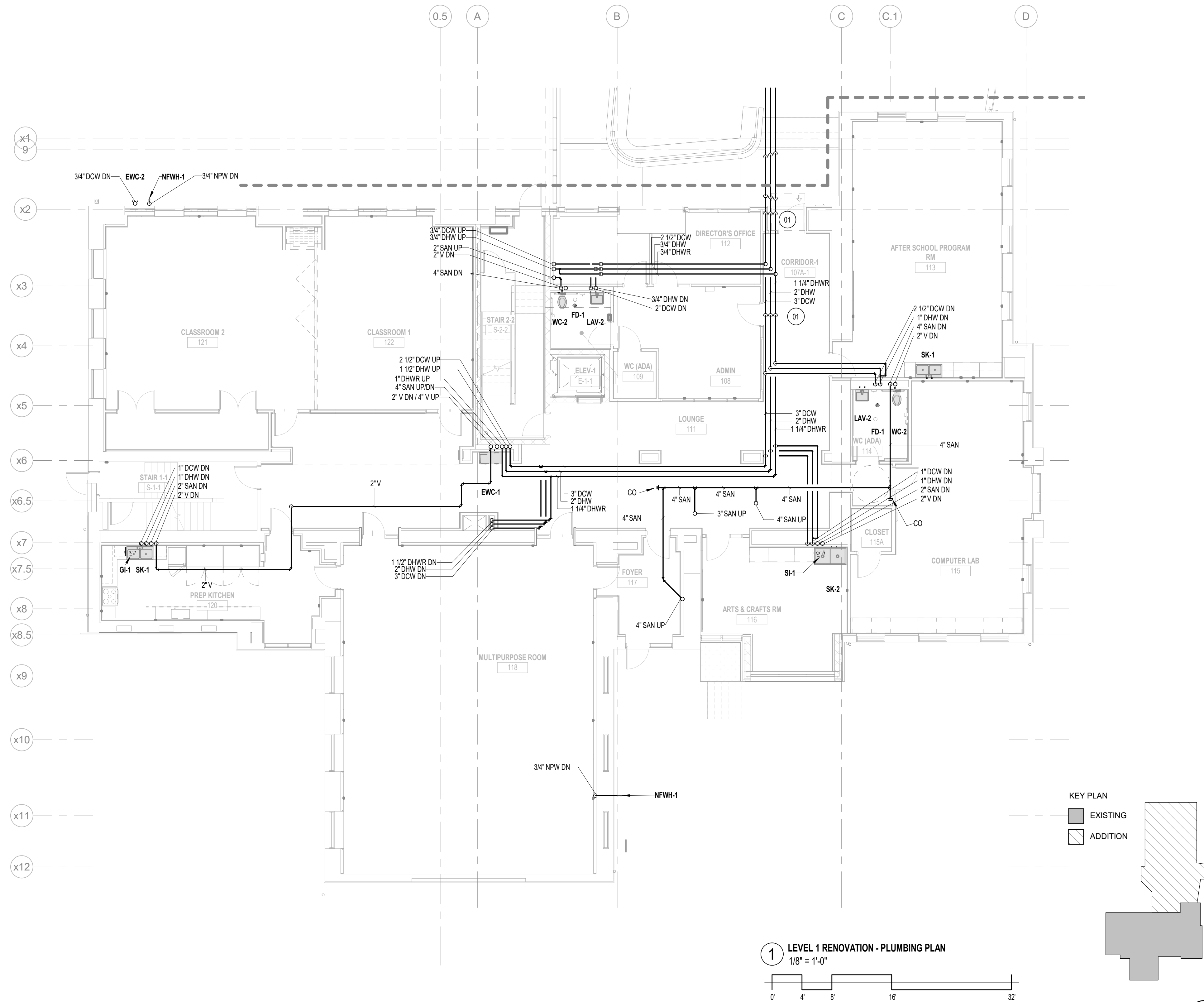
5800 Chester Ave
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PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

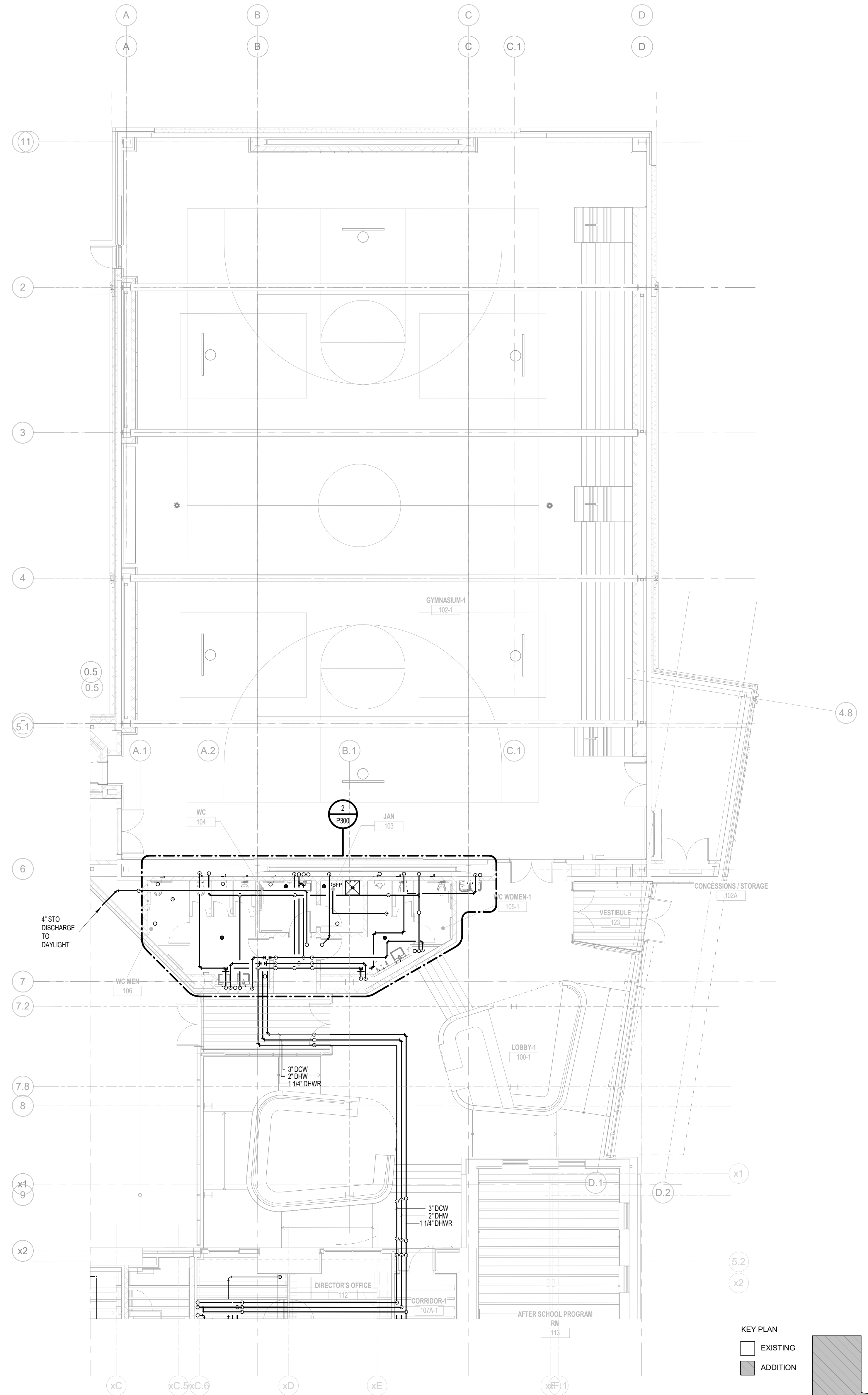
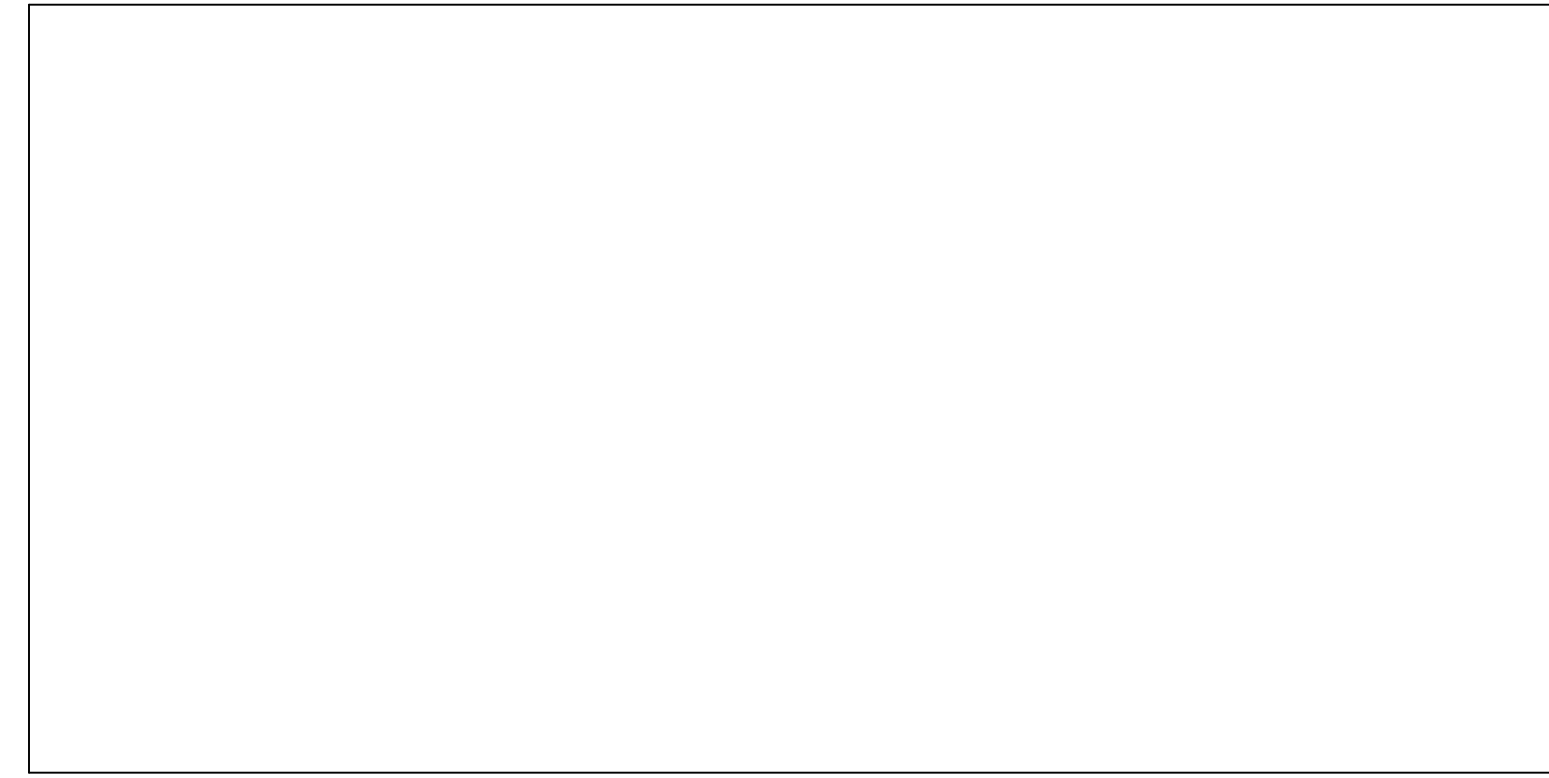
SHEET NAME:
LEVEL 1 RENOVATION - PLUMBING PLAN

SHEET NUMBER:
P211 A

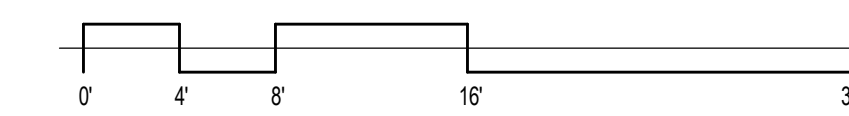
PROJECT PHASE:
CONSTRUCTION DOCUMENTS



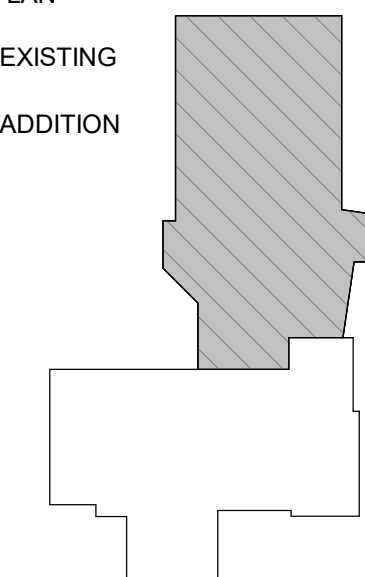
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1 LEVEL 1 - ADDITION PLUMBING PLAN
1/8" = 1'-0"



KEY PLAN
 EXISTING
 ADDITION



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DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS
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PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

SHEET NAME:
LEVEL 1 ADDITION - PLUMBING PLAN

SHEET NUMBER:
P211 B

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



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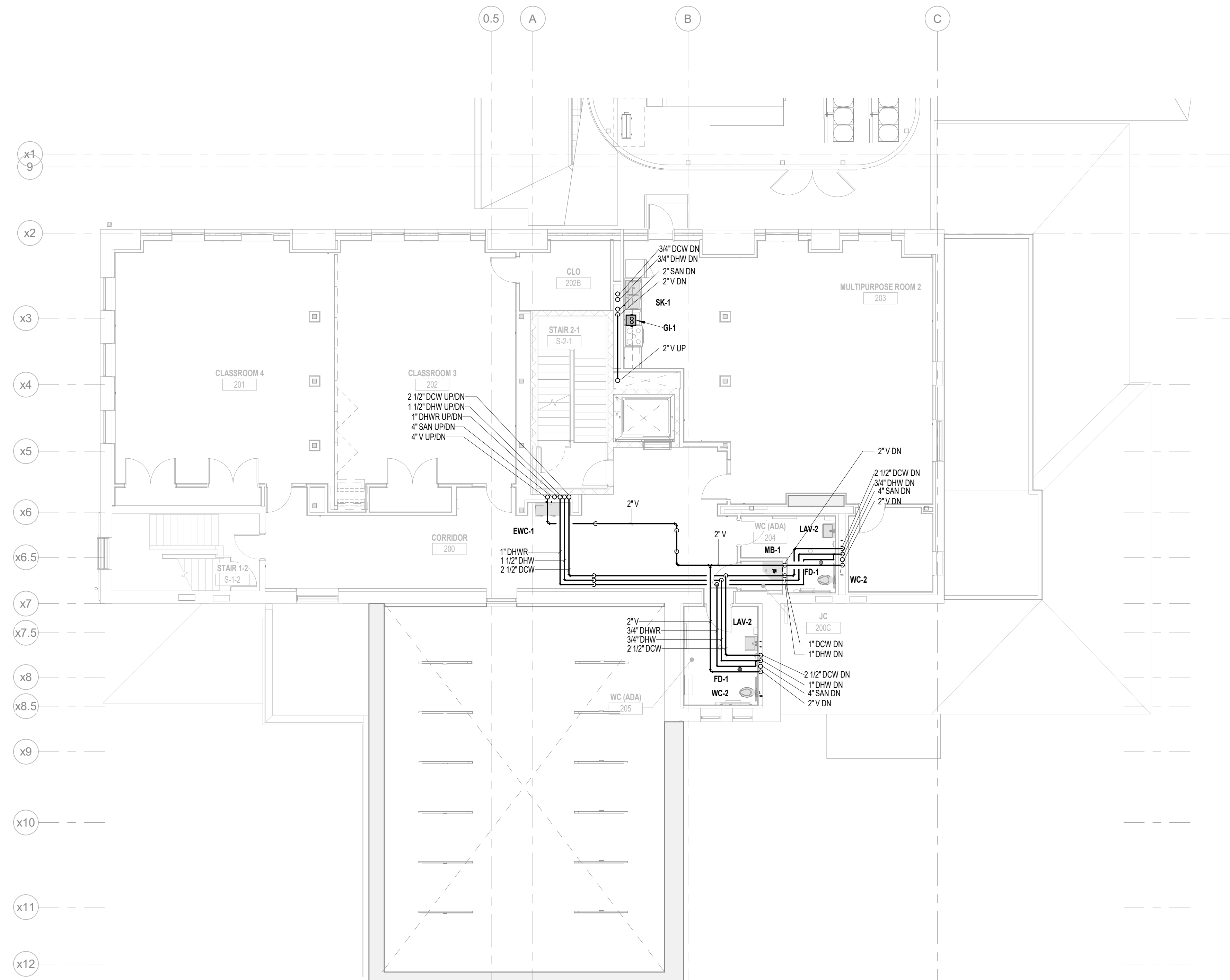
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KEY PLAN
 ■ EXISTING
 ▨ ADDITION

1 LEVEL 2 RENOVATION - PLUMBING PLAN
 1/8" = 1'-0"
 0' 4' 8' 16' 32'

DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS
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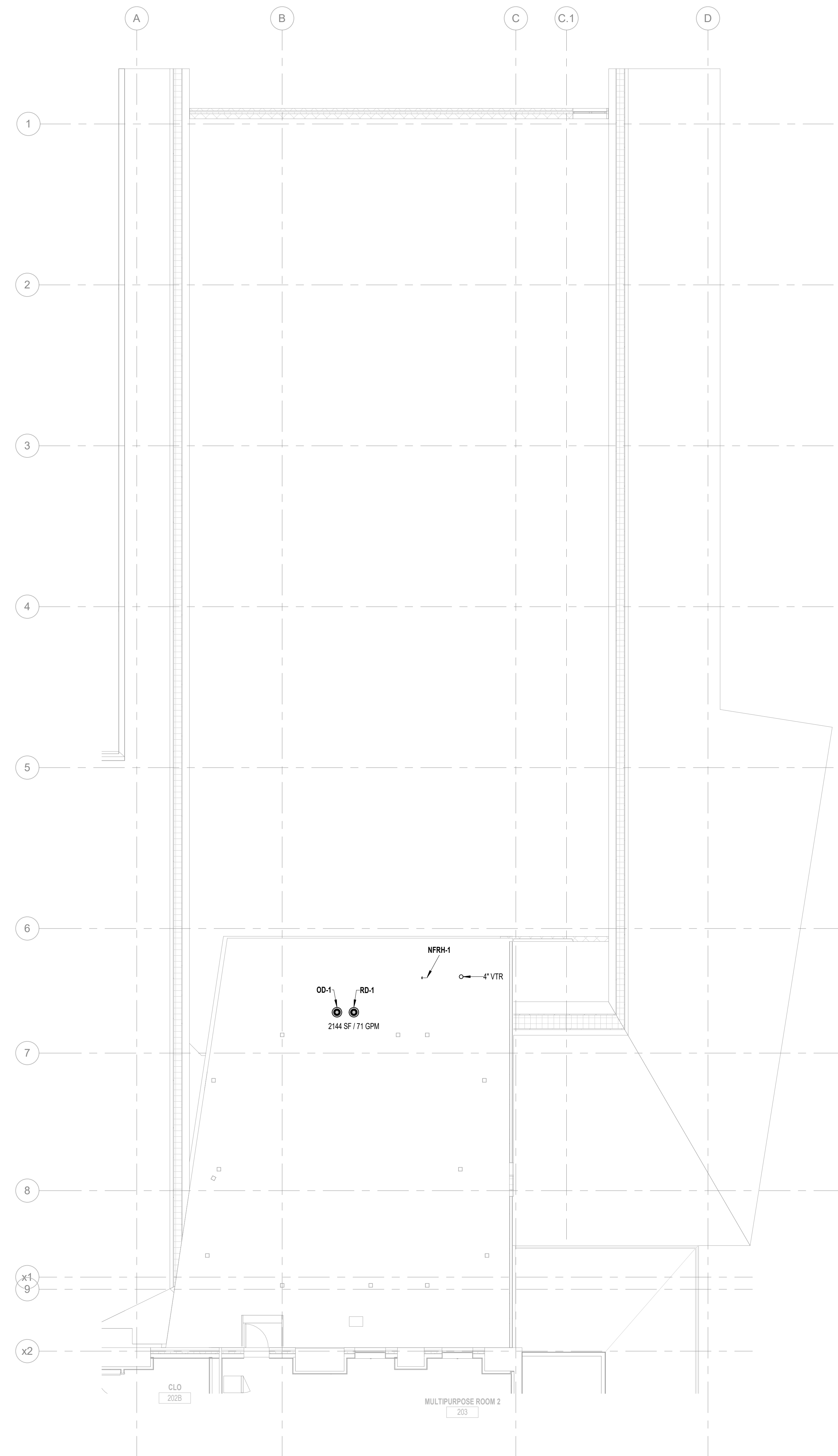
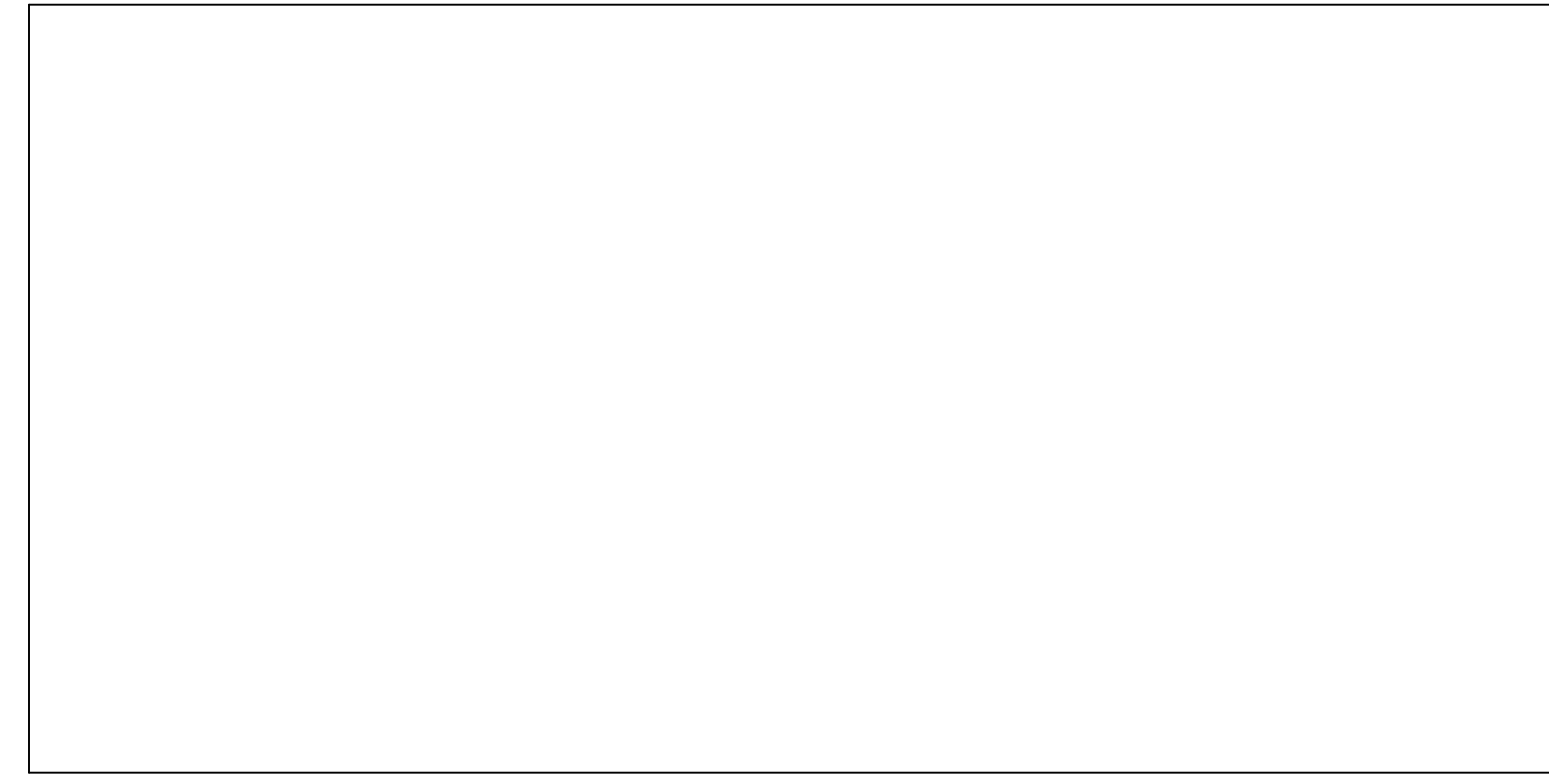
PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

SHEET NAME:
LEVEL 2 RENOVATION - PLUMBING PLAN

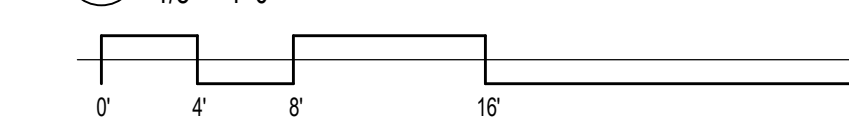
SHEET NUMBER:
P212 A

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

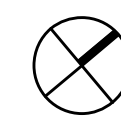
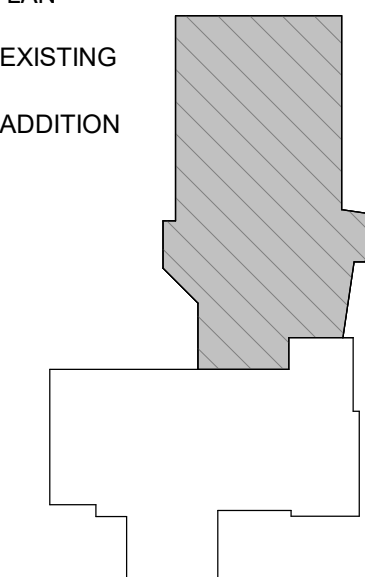
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1 LEVEL 2 ADDITION - PLUMBING PLAN
1/8" = 1'-0"



KEY PLAN
 □ EXISTING
 ■ ADDITION



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DATE:	DESCRIPTION:

**FRANCIS J. MYERS
 RECREATION CENTER
 SITE AND BUILDING
 IMPROVEMENTS**

5800 Chester Ave
 Philadelphia, PA 19143

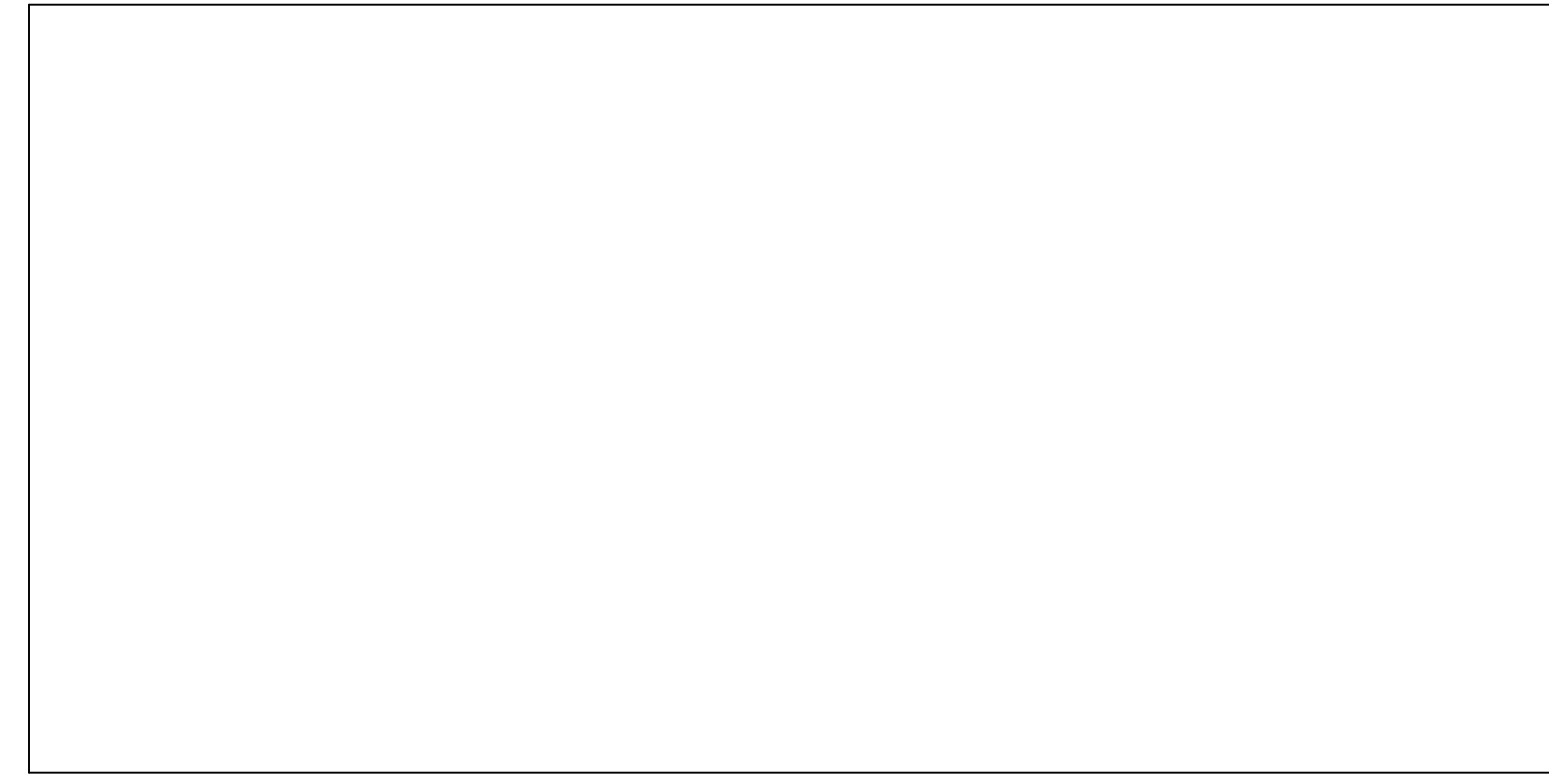
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DRAWN:	KS
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DATE:	4/7/2023

SHEET NAME:
**LEVEL 2 ADDITION -
 PLUMBING PLAN**

SHEET NUMBER:
P212 B

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



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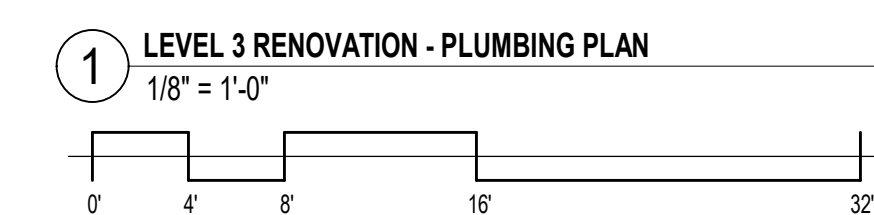
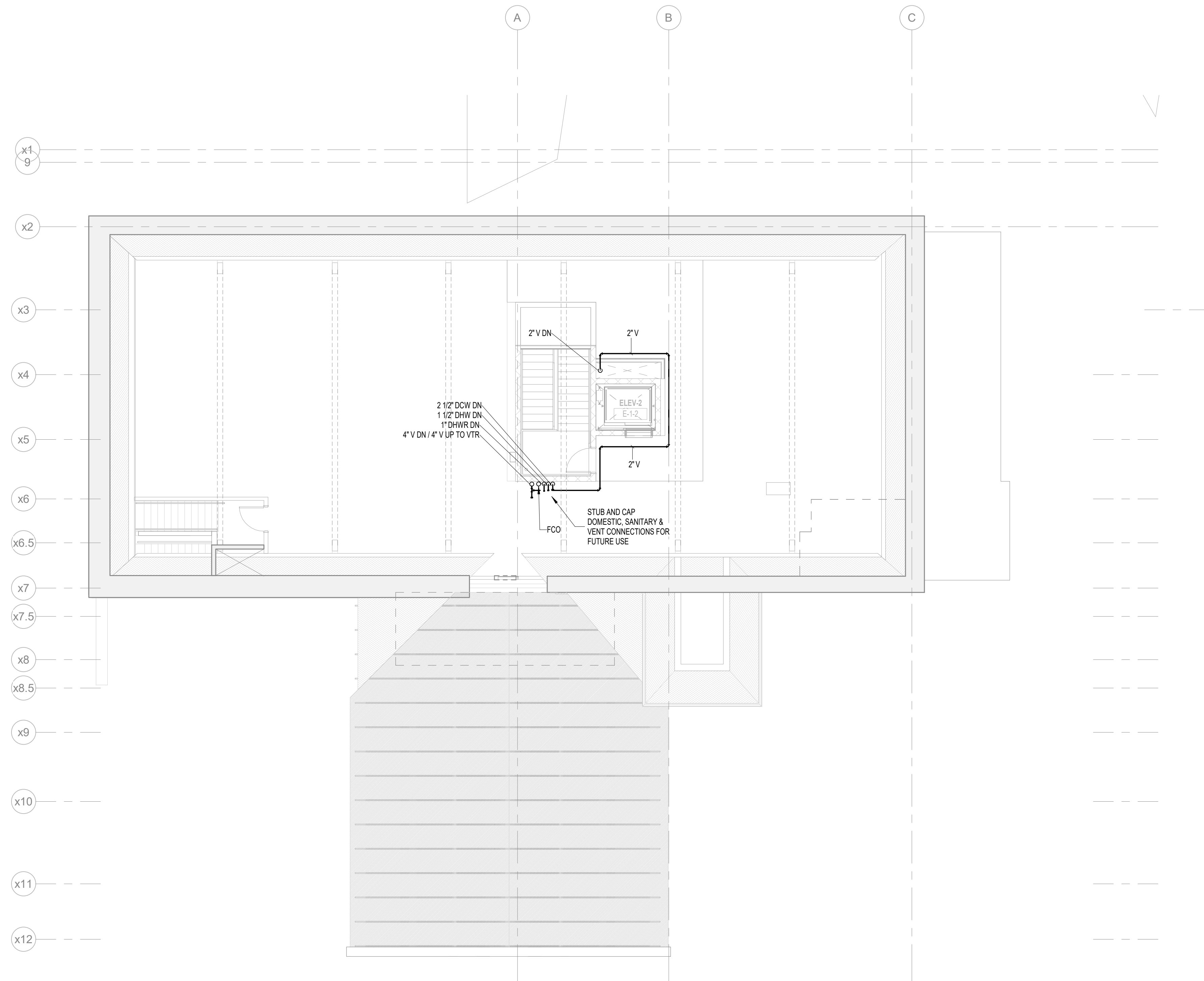
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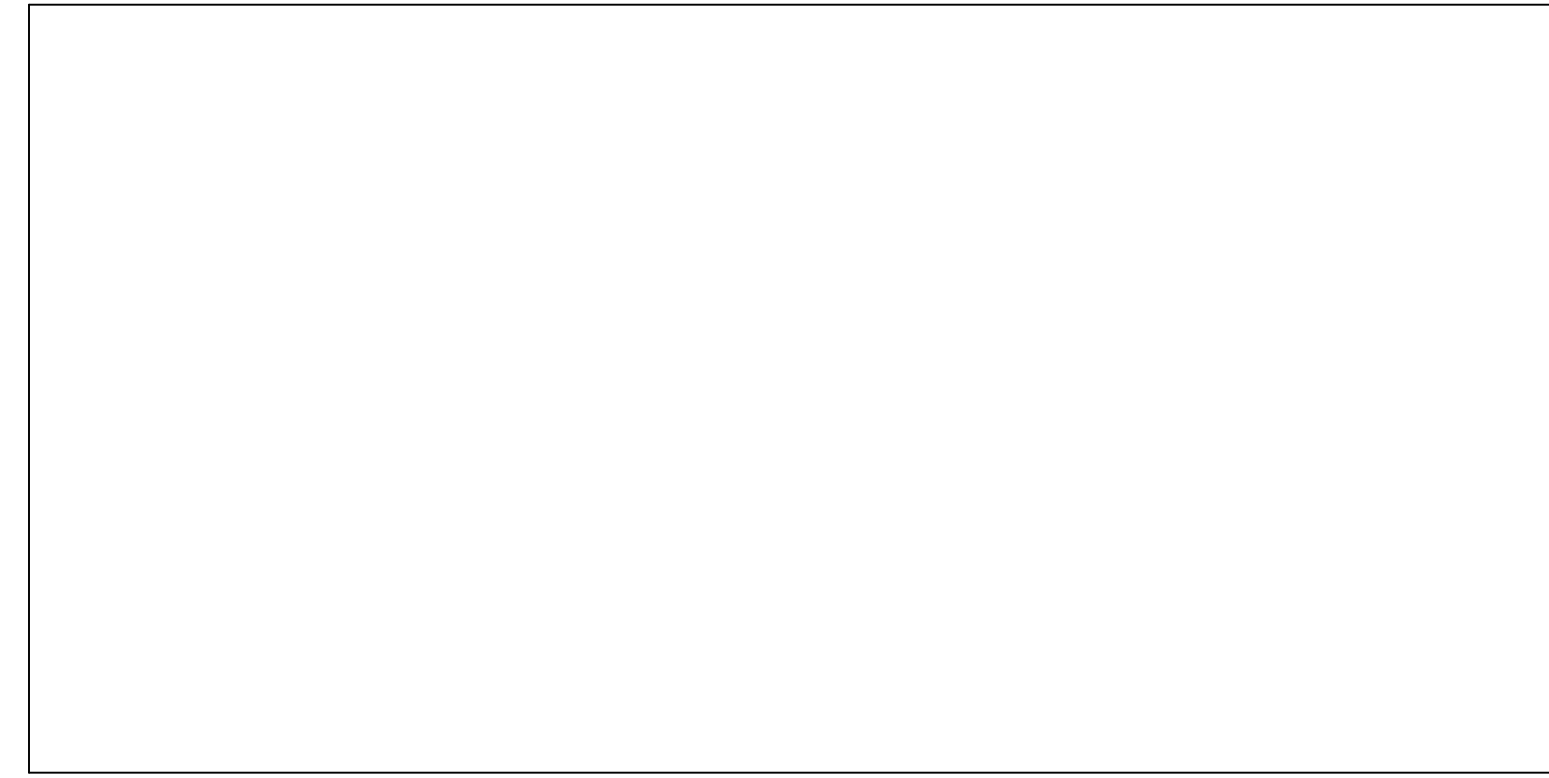
SHEET NAME:
**LEVEL 3
 RENOVATION -
 PLUMBING PLAN**

SHEET NUMBER:
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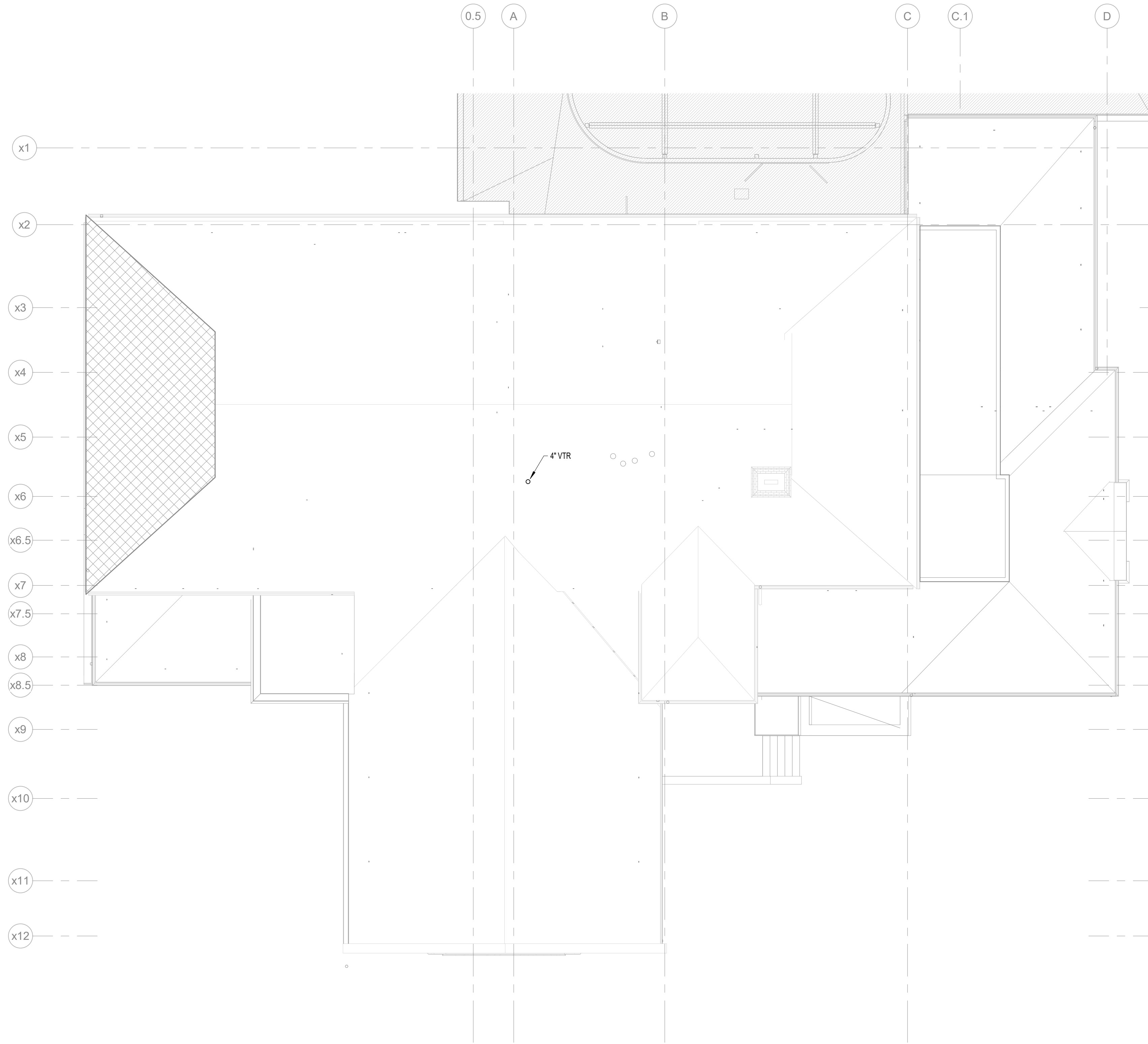
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1 ROOF-PLUMBING PLAN
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 0 4 8 16 32

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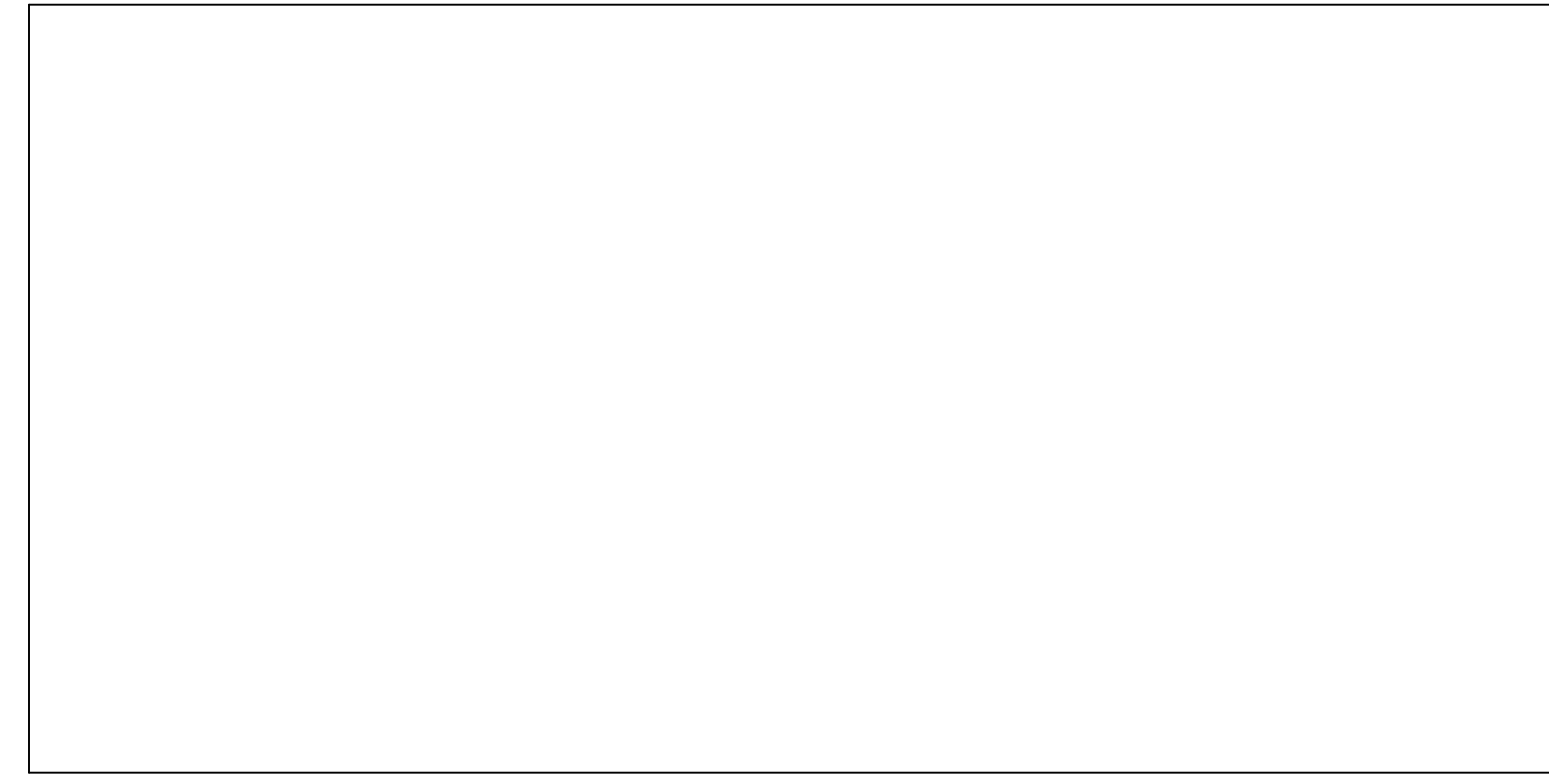
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SHEET NAME:
**ROOF RENOVATION
 - PLUMBING PLAN**

SHEET NUMBER:
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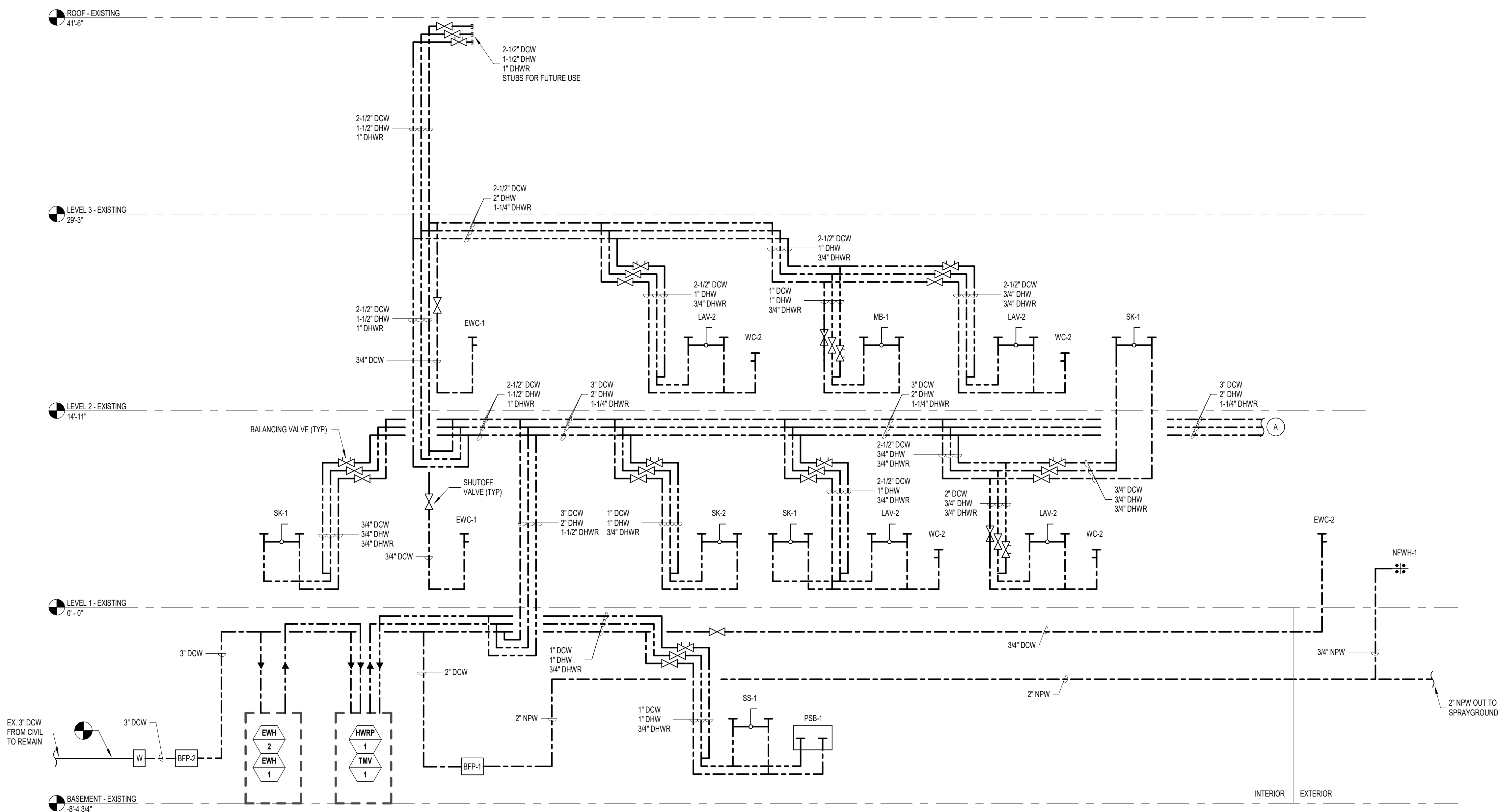
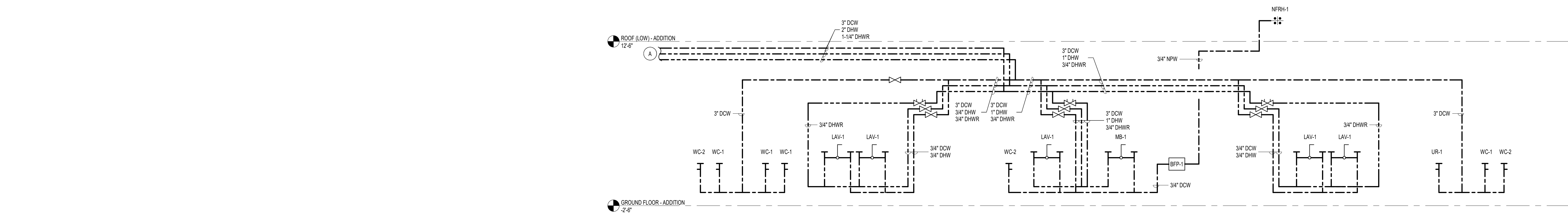
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**SHEET NAME:
 PLUMBING RISER
 DIAGRAMS - SUPPLY**

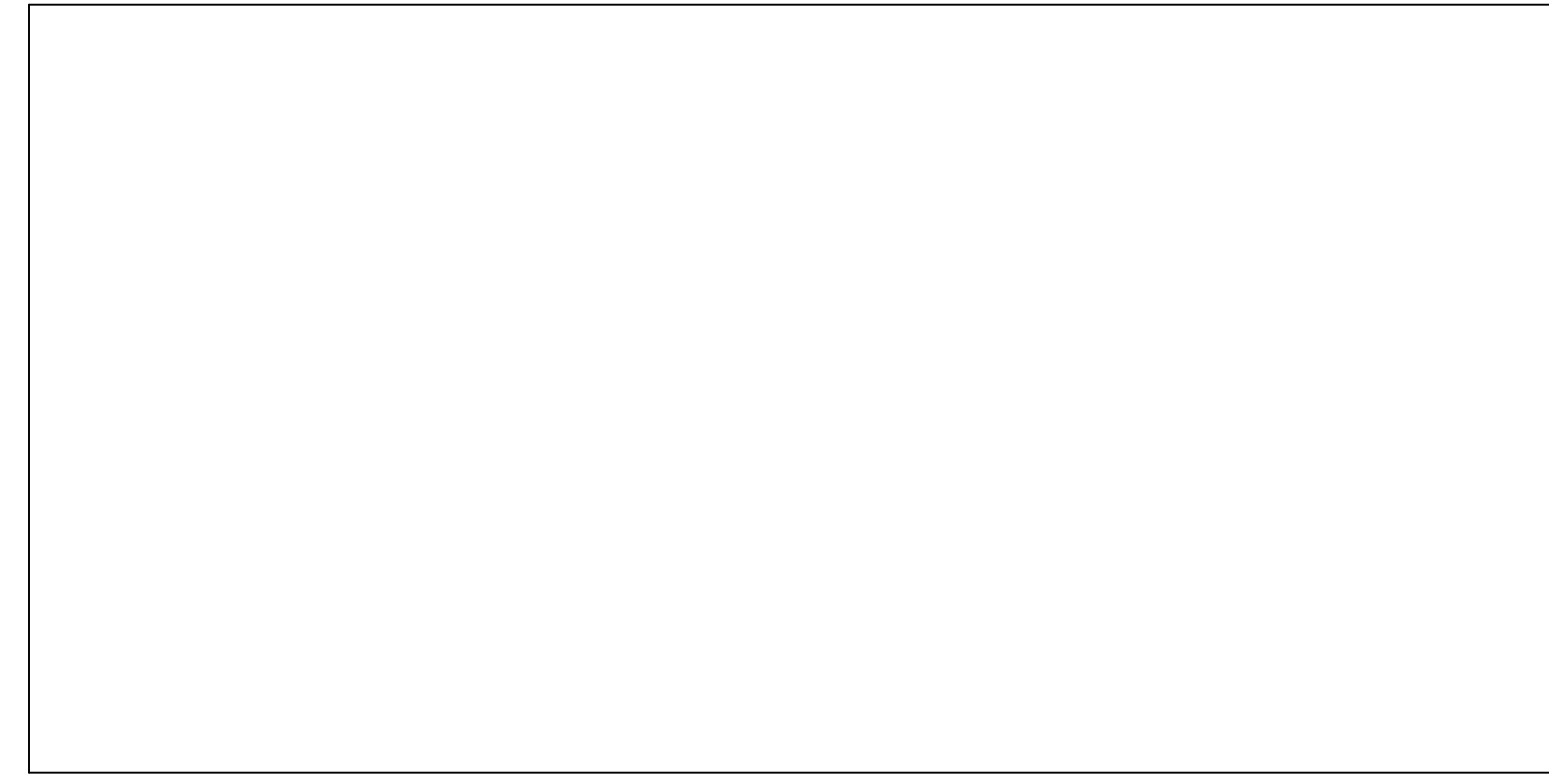
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1 PLUMBING SUPPLY RISER DIAGRAM
 NTS

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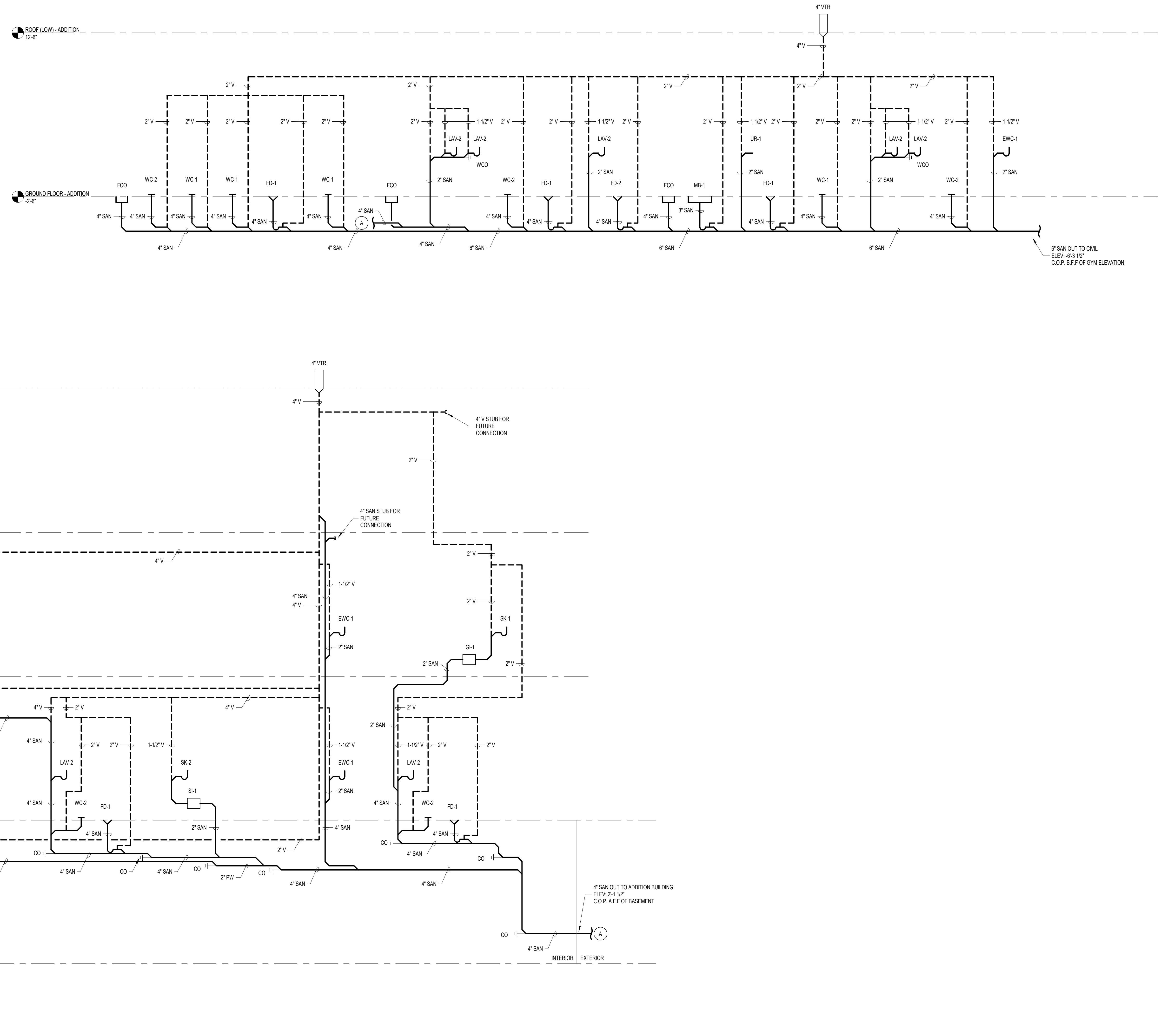
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**SHEET NAME:
 PLUMBING RISER
 DIAGRAMS - WASTE**

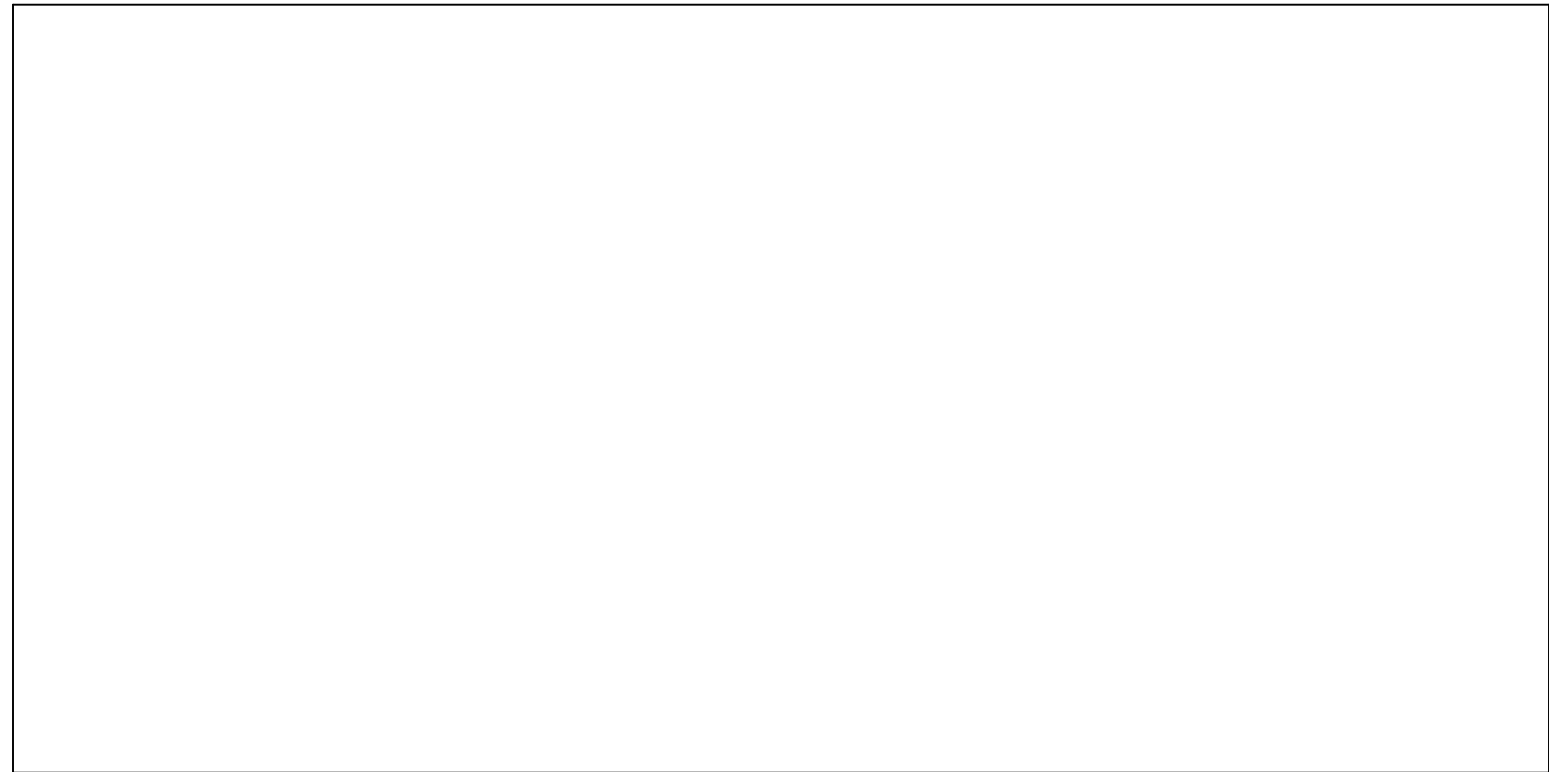
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1 PLUMBING RISER DIAGRAM - WASTE
 NTS

APPROVAL STAMP AREA



KEY NAME	COMMENT	FP ABBREVIATIONS
AFF	ABOVE FINISH FLOOR	
AHU	AIR HANDLING UNIT	
ARCH	ARCHITECTURAL	
BFP	BACKFLOW PREVENTER	
BLD	BUILDING	
BOP	BOTTOM OF PIPE	
CD	CONDENSATE DRAIN	
CFH	CUBIC FEET PER HOUR	
CI	CAST IRON	
CL	CENTER LINE	
CLG	CEILING	
CM	COFFEE MAKER	
CO	CLEANOUT	
CSW	COLD SOFT WATER	
CV	CHECK VALVE	
CW	COLD WATER	
D	DRAIN	
DET	DETAIL	
DFU	DRAINAGE FIXTURE UNITS	
DIA. Ø	DIAMETER	
DN	DOWN	
DT	FOUNDATION DRAIN TILE	
DV	DRAIN VALVE	
DWG	DRAWING	
DWS	DOMESTIC WATER SERVICE	
EC	ELECTRICAL CONTRACTOR	
ELEV	ELEVATION	
ELEC	ELECTRICAL	
EP	ELEVATOR PUMP	
EQUIP	EQUIPMENT	
ETR	EXISTING TO REMAIN	
EWC	ELECTRIC WATER COOLER	
EWH	ELECTRIC WATER HEATER	
FCO	FLOOR CLEANOUT	
FD	FLOOR DRAIN	
FE	FINISH FLOOR ELEVATION	
FP	FIRE PROTECTION CONTRACTOR	
FT	FEET	
GF	GLYCOL FILL STATION	
GPM	GALLON PER MINUTE	
HD	HUB DRAIN	
HW	HOT WATER	
HWR	HOT WATER RETURN	
ICW	INDUSTRIAL COLD WATER	
KW	KILOWATT	
LAV	LAVATORY	
MAX	MAXIMUM	
MB	MOP BASIN	
MC	MECHANICAL CONTRACTOR	
MECH	MECHANICAL	
MIN	MINIMUM	
MISC	MISCELLANEOUS	
NC	NORMALLY CLOSED	
NFVH	NON FREEZE WALL HYDRANT	
NO	NORMALLY OPEN	
NPW	NON POTABLE WATER	
NTS	NOT TO SCALE	
P	PUMP	
PC	PLUMBING CONTRACTOR	
PCP	PUMP CONTROL PANEL	
PG	PRESSURE GAUGE	
PRV	PRESSURE REDUCING VALVE	
PSI	POUNDS PER SQUARE INCH	
PSIG	POUNDS PER SQUARE INCH GAUGE	
PVC	POLYVINYL CHLORIDE	
PW	PRESSURIZED WASTE	
REX	REMOVE EXISTING	
RP	RECIRCULATION PUMP	
SAW	SANITARY WASTE	
SK	SINK	
SP	SUMP PUMP	
SPEC	SPECIFICATION	
ST	STORM PUMP DISCHARGE TO MEET PRESSURIZED WASTE PIPING REQUIREMENTS	
T&P	TEMPERATURE & PRESSURE RELIEF VALVE	
TBD	TO BE DETERMINED	
TDH	TOTAL DYNAMIC HEAD	
TEMP or T	TEMPERATURE	
THX	THERMAL EXPANSION TANK	
TMV	THERMOSTATIC MIXING VALVE	
TP	TRAP PRIMER	
TYP	TYPICAL	
UNO	UNLESS NOTED OTHERWISE	
V	VENT	
VTR	VENT THRU ROOF	
W	WITH	
WC	WATER CLOSET	
WCO	WALL CLEANOUT	
WCO	YARD CLEANOUT	
WHA	WATER HAMMER ARRESTER	
WS	WATER SOFTENER	
°	DEGREE	
°F	DEGREES FAHRENHEIT	
Ø	DIAMETER	

PIPING SYSTEMS	
EXISTING SPRINKLER HEADS	
SYMBOL	DESCRIPTION
	EXISTING UPRIGHT SPRINKLER HEAD
	EXISTING PENDANT SPRINKLER HEAD
	EXISTING PENDANT CONCEALED SPRINKLER HEAD
	CHECK VALVE
	EXISTING UPRIGHT SPRINKLER HEAD
	EXISTING PENDANT SPRINKLER HEAD
	EXISTING STANDARD SIDEWALL SPRINKLER HEAD HORIZONTAL
	EXISTING STANDARD SIDEWALL SPRINKLER HEAD VERTICAL
	EXISTING CARBON DIOXIDE NOZZLE
NEW CONSTRUCTION SPRINKLER HEADS	
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	PENDANT CONCEALED SPRINKLER HEAD
	PENDANT DRY SPRINKLER HEAD
	STANDARD SIDEWALL SPRINKLER HEAD HORIZONTAL
	STANDARD SIDEWALL SPRINKLER HEAD VERTICAL
	PENDANT WINDOW SPRINKLER HEAD
	CARBON DIOXIDE NOZZLE
SYSTEMS ABBREVIATIONS	
ABBREVIATION	SYSTEM NAME
FPV	FIRE PROTECTION WET

FIRE DEPARTMENT CONNECTION						
TAG	ABBR.	#	FIXTURE	MANUFACTURER	MODEL	REMARKS
	FDC	1	FREESTANDING FIRE DEPARTMENT CONNECTION	POTTER ROEMER	5761	POLISHED CHROME PLATING

SYMBOLS LIST	
SYMBOL	DESCRIPTION
	ELBOW DOWN
	ELBOW UP
	TEE DN
	TEE UP
	FIXTURE TRAP
	CHECK VALVE
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	PENDANT DRY SPRINKLER HEAD
	STANDARD SIDEWALL SPRINKLER HEAD HORIZONTAL
	STANDARD SIDEWALL SPRINKLER HEAD VERTICAL
	CARBON DIOXIDE NOZZLE
	DELUGE VALVE
	OS&Y VALVE
	ALARM CHECK VALVE
	DETECTOR CHECK VALVE WITH BY-PASS METER
	FIRE DEPARTMENT VALVE
	FIRE EXTINGUISHER RECESSED OR SURFACE
	NON SPRINKLED AREA
	SIAMESE FIRE DEPT. CONNECTION
	FIRE ALARM BELL
	WALL FIRE PUMP TEST HEADER
	DRY PIPE VALVE
	FLOW SWITCH
	TAMPER SWITCH
	ANGLE GATE VALVE
	GLOBE VALVE
	ANGLE GLOBE VALVE
	OS&Y WITH TAMPER SWITCH
	REDUCED PRESSURE BACK FLOW PREVENTOR WITH METER BY-PASS
	DOUBLE DETECTOR CHECK VALVE
	BALANCING COCK
	BALANCING VALVE
	BALL VALVE / ISOLATION VALVE
	OS&Y VALVE
	GATE VALVE
	GLOBE VALVE
	MINING VALVE
	WALL SLEEVE
	UNION
	FLOOR CLEAN OUT
	CLEAN OUT
	PIPE CAP
	WALL CLEAN OUT
	STRAINER
	THERMOMETER
	PRESSURE GAUGE
	WATER METER
	WATER METER ASSEMBLY
	PUMP
	FLOOR CONTROL ASSEMBLY CABINET

GENERAL FIRE PROTECTION NOTES

- APPLICABLE TO ALL FIRE PROTECTION DRAWINGS
- AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA SHALL BE BASED ON LIGHT HAZARD OCCUPANCY FOR OFFICES, LOBBY, AND STAIRS WITH QUICK RESPONSE 165 DEGREE FAHRENHEIT RATED SPRINKLER HEADS. THE DENSITY REQUIREMENT SHALL BE A MINIMUM OF 0.3 GPM/SQ. FT. OVER THE HYDRAULIC MOST REMOTE 1500 SQ. FT. STORAGE, MECHANICAL ROOM SHALL BE BASED ON ORDINARY HAZARD WITH A DENSITY OF 0.15 GPM/SQ. FT. OVER THE MOST HYDRAULIC MOST REMOTE 1500 SQ. FT.
 - ALL SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA NO. 13, LOCAL BUILDING CODE AND ANY REFERENCED AMENDMENTS AND STANDARDS.
 - FIRE SUPPRESSION DRAWINGS ARE FOR REFERENCE ONLY. FIRE SUPPRESSION SYSTEM DESIGN IS A DELEGATED DESIGN AND FINAL ROUTING OF FIRE SUPPRESSION PIPING AND HYDRAULIC CALCULATIONS ARE THE RESPONSIBILITY OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF PENNSYLVANIA.
 - CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTION FEES AS REQUIRED FOR THIS WORK.
 - CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE FULL EXTENT OF THE WORK AND THE EXACT LOCATION, ELEVATION, ETC. OF PIPING. COORDINATE ALL WORK WITH THE RESPECTIVE TRADES.
 - PROVIDE ALL REQUIRED CUTTING, DRILLING AND PATCHING. NO STRUCTURAL WORK TO BE CUT WITHOUT PREVIOUS APPROVAL OF THE ARCHITECT. PATCH ALL DISTURBED WALLS, CEILING AND FLOORS TO MATCH ADJACENT SURFACES AS NECESSARY.
 - WATER PRESSURE AND SUPPLY INFORMATION. FIELD VERIFY ALL PRESSURES AND CAPACITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR FLOW TEST INFORMATION.
 - SPRINKLER PIPE SIZING SHALL BE HYDRAULICALLY CALCULATED AFTER FLOW TEST HAS BEEN COMPLETED.
 - WHERE THERE ARE NO CEILINGS PROVIDE UPRIGHT SPRINKLER HEADS.
 - WHERE THERE ARE NO CEILINGS PROVIDE UPRIGHT SPRINKLER HEADS.
 - SPRINKLERS SHALL BE INSTALLED BENEATH DUCTWORK OR OTHER DEFLECTOR AND THE TOP OF STORAGE.
 - MAINTAIN MINIMUM CLEARANCE OF 18" OR GREATER BETWEEN SPRINKLER HEAD DEFLECTOR AND THE TOP OF STORAGE.
 - CONTRACTOR SHALL INSTALL METAL SPRINKLER CABINET CONTAINING TWO SETS OF SPRINKLER WRENCHES COMPATIBLE WITH EACH TYPE OF SPRINKLER PROVIDED AND THE NUMBER OF SPARE SPRINKLERS OF EACH TYPE, FINISH AND TEMPERATURE RATING AS REQUIRED BY SECTION 6.9.0 OF NFPA 13.
 - EACH SPRINKLER SYSTEM SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI FOR TWO HOURS. THE TEST SHALL CONFORM TO NFPA STANDARDS AND WITNESSED BY AUTHORITY HAVING JURISDICTION.
 - SPRINKLERS SHALL BE INSTALLED BENEATH DUCTWORK OR OTHER OBSTRUCTIONS 48" OR WIDER.
 - ALL PIPING, VALVES AND DEVICES SHALL BE INSTALLED SO AS NOT TO OBSTRUCT ANY PORTION OF A WINDOW, DOORWAY, STAIRWAY OR PASSAGEWAY OR ANY PIECE OF MECHANICAL OR ELECTRICAL EQUIPMENT.
 - EVERY SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY SHALL HAVE ALL NECESSARY VALVES, TAMPER SWITCHES, WATERFLOW INDICATORS AND COMBINATION INSPECTORS TEST AND DRAIN FITTINGS.
 - ALL HANGERS AND METHODS FOR HANGING SHALL BE IN ACCORDANCE WITH NFPA STANDARDS.
 - FACTORY MUTUAL RESEARCH CORPORATION APPROVED EQUIPMENT SHALL BE PROVIDED WHERE APPLICABLE AND DETAILS OF THE INSTALLATIONS SHALL CONFORM TO FACTORY MUTUAL'S RECOMMENDED PRACTICES.
 - DO NOT INSTALL PIPING OR SPRINKLER HEADS IN HIGH VOLTAGE (OVER 480 V) ELECTRICAL CLOSETS, TRANSFORMER ROOMS, OR ELEVATOR EQUIPMENT ROOMS. THESE AREAS SHALL HAVE HEAT DETECTORS FURNISHED AND INSTALLED BY ELECTRIC CONTRACTOR (U.N.O.).
 - PIPING SHALL NOT BE ROUTED THROUGH OR OVER ANY TELEPHONE EQUIPMENT, ELECTRICAL EQUIPMENT, COMMUNICATION ROOMS OR SIMILAR AREAS.
 - ALL SPRINKLERS LOCATED IN SUSPENDED CEILING TILES SHALL BE LOCATED IN THE CENTER OF THE TILE.
 - ALL FLOOR CONTROL VALVE ASSEMBLIES ARE TO BE LOCATED WITHIN THE STAR ENCLOSURE. CONTROL VALVES ARE TO BE SUPERVISED AND LOCKED IN THE OPEN POSITION.
 - ALL SPRINKLER SYSTEMS SHOWN SHALL BE WET UNLESS OTHERWISE NOTED. MULTIPLE FIRE DEPARTMENT CONNECTIONS ARE REQUIRED AS SHOWN.
 - TESTING OF FIRE PUMP MUST BE SAFELY ACCOMPLISHED WITH NO MORE THAN 100 FT. OF HOSE.
 - PIPE ROUTING IS FOR DIAGRAMMATIC PURPOSES ONLY. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PIPE ROUTING, HEAD LOCATIONS, AND PIPE SIZING BASED ON HYDRAULIC CALCULATIONS.
 - SPRINKLER CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF SPRINKLER PIPING AND HEADS WITH OTHER TRADES. AVOID ALL DUCTWORK, LIGHTING FIXTURES, DIFFUSERS, ETC.
 - PIPES, DUCTS, CONDUITS AND ELECTRICAL CABLE TRAYS WHICH PASS THROUGH EXISTING AND NEW FIRE-RESISTIVE BARRIERS, INCLUDING FLOOR SLABS AND WALLS, SHALL BE FIRE SEALED TO MAINTAIN THE INTEGRITY OF THE FIRE RESISTIVE BARRIER. ALL EXPOSED PIPES PASSING THROUGH A WALL, CEILING OR FLOOR SHALL HAVE CHROME ESCUTCHEON PLATES.
 - SPRINKLER SYSTEM SHALL BE INSTALLED SO THAT DRAINING OF THE ENTIRE SYSTEM IS POSSIBLE AS PER NFPA NO. 13.
 - ALL SPRINKLER PIPING SHALL BE SCHEDULE 40 STEEL PIPE.
 - SPRINKLER CONTRACTOR SHALL SUBMIT SPRINKLER PLAN LAYOUT, INCLUDING PIPE SUPPORT LOCATIONS AND TYPES. SUBMITTALS SHALL INCLUDE PENETRATIONS AND DETAILS.
 - ABOVE-GROUND SPRINKLER PIPING SHALL BE BLACK STEEL, WELDED OR SEAMLESS. ASTM A 796, GALVANIZED STEEL WELDED OR SEAMLESS, ANSI/ASTM A 53, WROUGHT STEEL, ANSI B36.10M, STEEL, ELECTRONIC-RESISTANCE WELDED, ASTM A 153.
 - SCREWED UNIONS SHALL NOT BE USED ON PIPE LARGER THAN 2". COUPLINGS AND UNIONS OF OTHER THAN SCREWED TYPE SHALL BE OF TYPES LISTED SPECIFICALLY FOR USE IN SPRINKLER SYSTEMS.
 - PROVIDE SIDEWALL SPRINKLER HEAD AT BOTTOM AND TOP OF ELEVATOR SHAFT. LOCATE SPRINKLER HEAD WITHIN ELEVATOR PIT SAFETY ZONE. PROVIDE AN ISOLATION VALVE IN THE LOCKED OPEN POSITION UPSTREAM OF SPRINKLER.
 - CONCEALED SPRINKLER HEADS TO BE INSTALLED IN ALL FINISHED SPACES WITH CEILING U.N.O.
 - ALL SPRINKLERS TO BE QUICK RESPONSE U.N.O.
 - ALL SPRINKLERS TO BE OF AN ORDINARY TEMPERATURE RATING U.N.O.
 - ALL SPRINKLERS SHALL HAVE A 5 & 8 K-FACTOR ORIFICE U.N.O.
 - FIRE PROTECTION SYSTEM SHALL INCLUDE ALL ITEMS FOR COMPLETE SYSTEM. SPECIFICALLY THIS IS TO INCLUDE BUT IS NOT LIMITED TO: PIPE, SUPPORTS, VALVES, GAUGES, TRIM, ALARMS, SPECIALTY DEVICES, CONTROLS, AND ITEMS INCIDENTAL TO A COMPLETE SYSTEM.
 - ADDITIONAL SPRINKLERS MAY BE REQUIRED TO PROVIDE ADEQUATE COVERAGE WHERE FURNITURE, LIGHT FIXTURES, DUCTWORK OR STRUCTURE ACT AS OBSTRUCTIONS TO A SPRINKLER SPRAY PATTERN.
 - GENERAL CONTRACTOR'S MEFPF COORDINATOR TO SUBMIT MEFPF COORDINATION DRAWINGS FOR REVIEW OF DESIGN INTENT INDICATING COORDINATION OF ALL TRADES PRIOR TO PLACEMENT OF MEFPF WORK. DRAWINGS TO BE SUBMITTED AFTER SPRINKLER DRAWINGS HAVE BEEN SUBMITTED AND APPROVED BY AHJ AND SUBSEQUENTLY COORDINATED WITH ALL OTHER TRADES. DRAWINGS TO BE SUBMITTED TO EOR FOR REVIEW.
 - ALL SPRINKLER HEADS LOCATED AT SKYLIGHTS AND CLERESTORY TO BE INTERMEDIATE TEMPERATURE TYPE.
 - GENERAL CONTRACTOR TO PROVIDE SUBMITTAL TO ARCHITECT AND ENGINEER FOR REVIEW OF SPRINKLER HEAD LOCATIONS AND OTHER ASSOCIATED DEVICES.
 - DRAWINGS AND DETAILS ARE DIAGRAMMATIC IN NATURE AND THE FINAL DESIGN, INCLUDING DETAILS AND SPRINKLER SCHEDULES, ARE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR.

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DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave
Philadelphia, PA 19143

PROJECT #:	2020
SCALE:	1/2" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

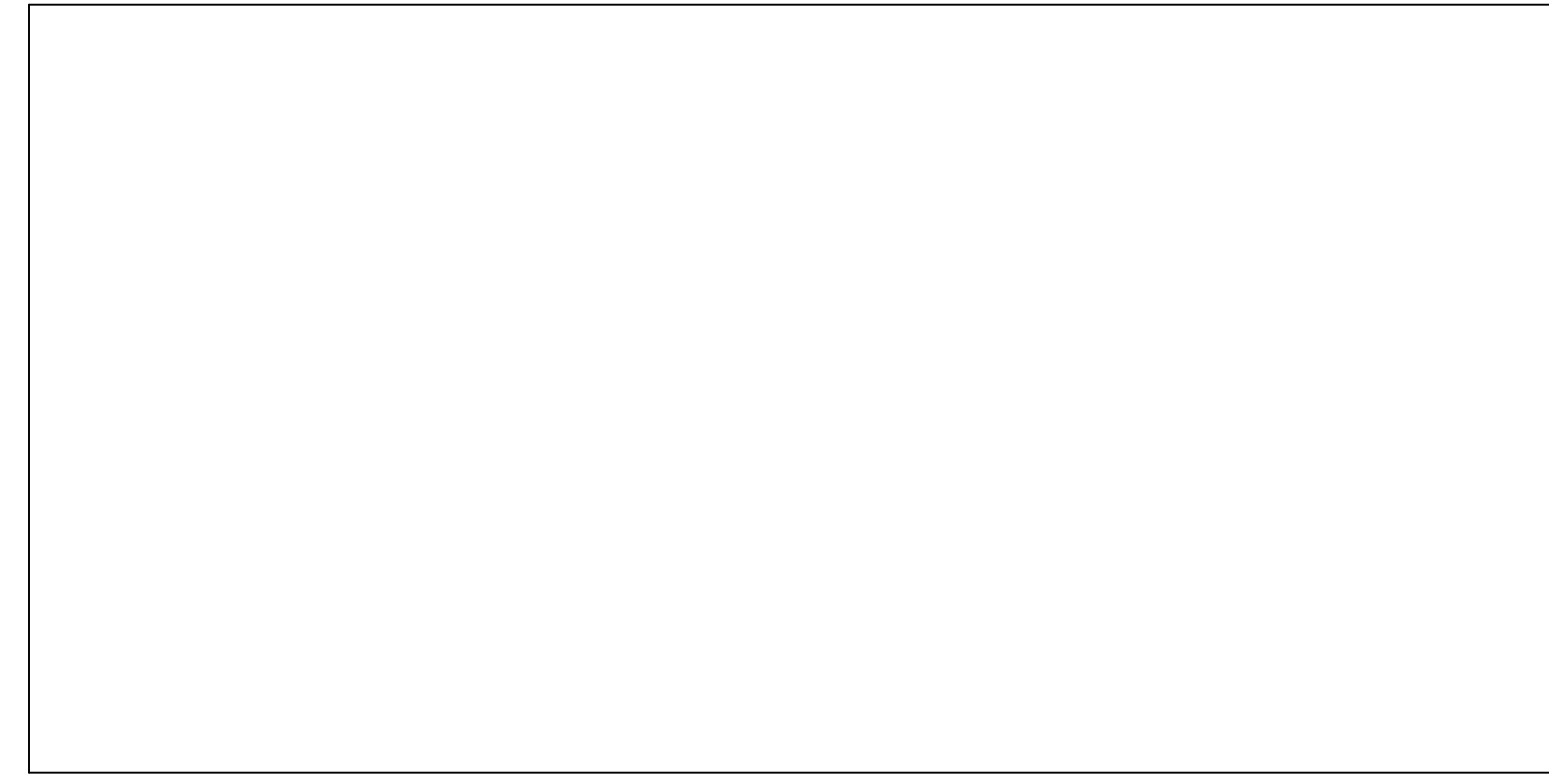
SHEET NAME: FIRE PROTECTION SYMBOLS, NOTES & ABBREVIATIONS

SHEET NUMBER: FP000

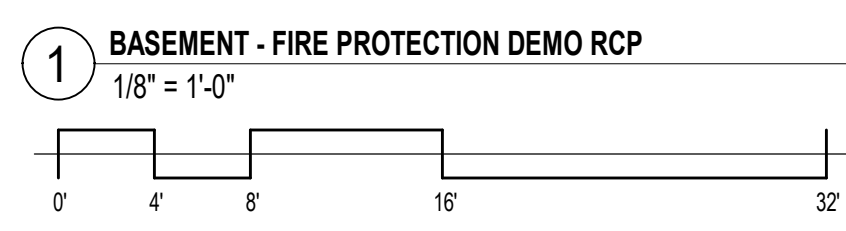
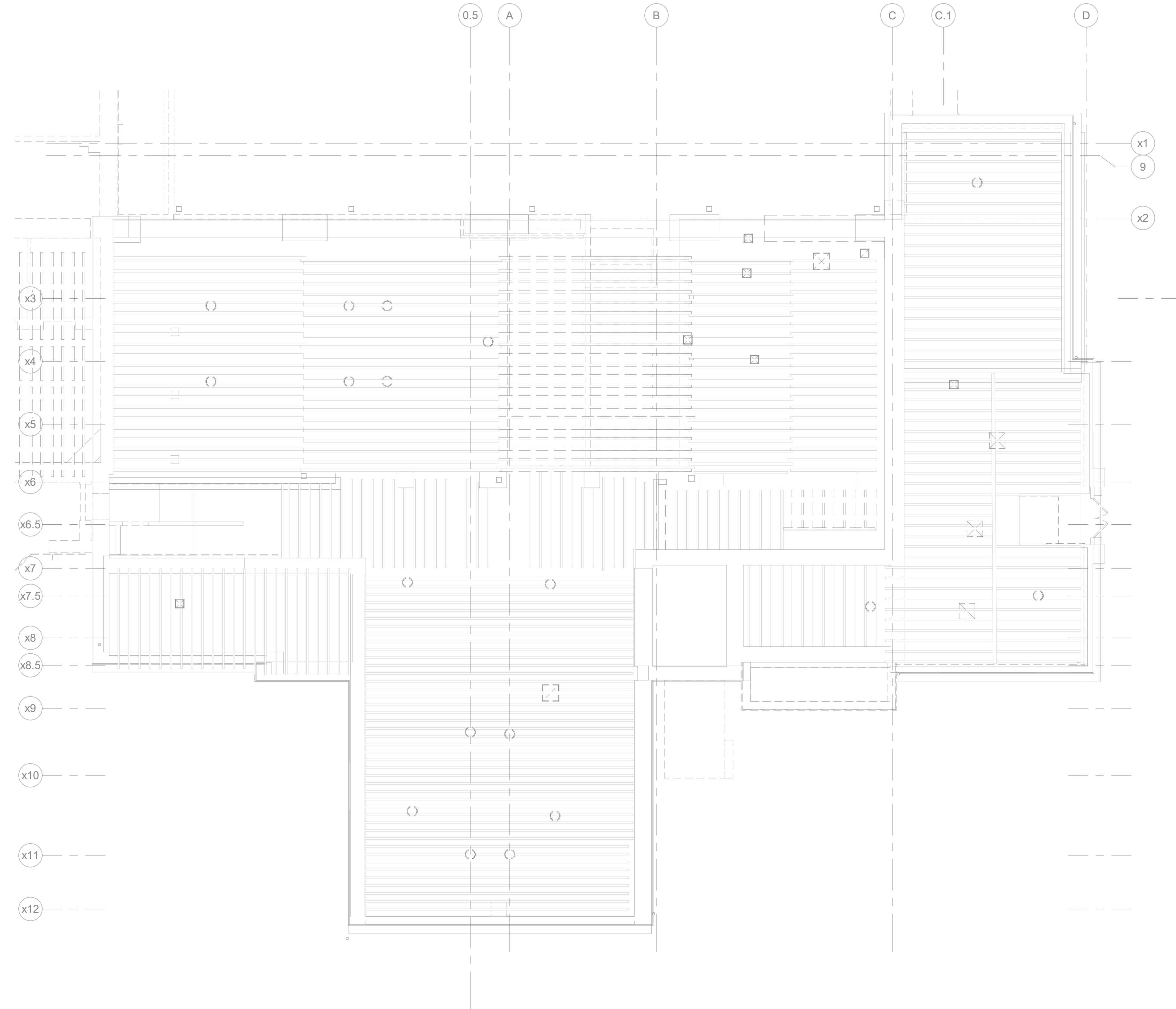
PROJECT PHASE: CONSTRUCTION DOCUMENTS

GENERAL NOTE: NOT ALL SYMBOLS, NOTES AND ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT

APPROVAL STAMP AREA



FIRE PROTECTION DEMO NOTES:
 1. DEMOLISH ALL EXISTING SPRINKLERS AND BRANCH PIPING BACK TO EXISTING DOUBLE CHECK DETECTOR ASSEMBLY (DCCA) IN BASEMENT.
 PREPARE EXISTING DCCA FOR CONNECTION TO NEW SPRINKLER MAINS.



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DATE:	DESCRIPTION:

**FRANCIS J. MYERS
 RECREATION CENTER
 SITE AND BUILDING
 IMPROVEMENTS**

5800 Chester Ave
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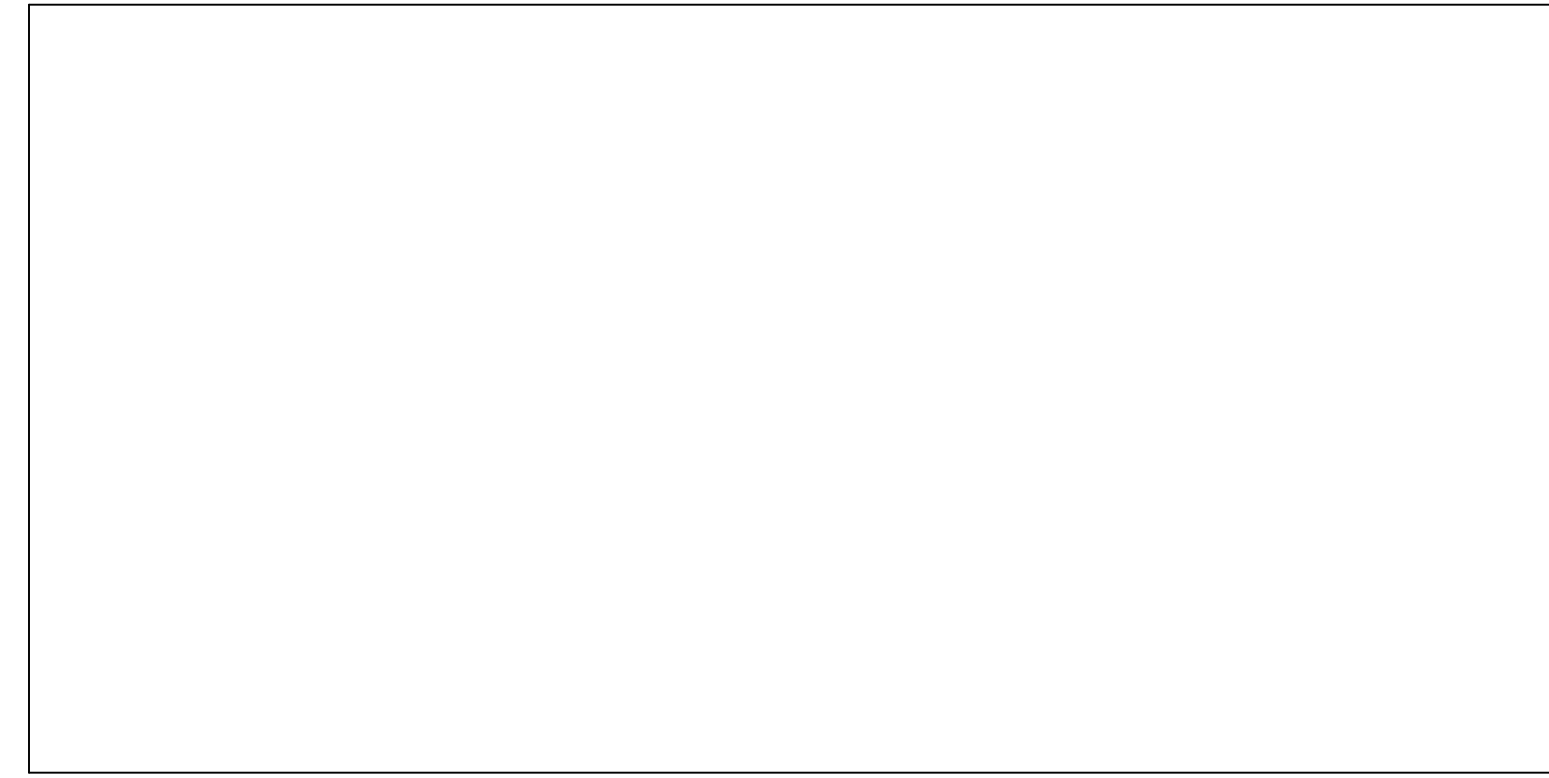
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SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

SHEET NAME:
**BASEMENT - FIRE
 PROTECTION DEMO
 RCP**

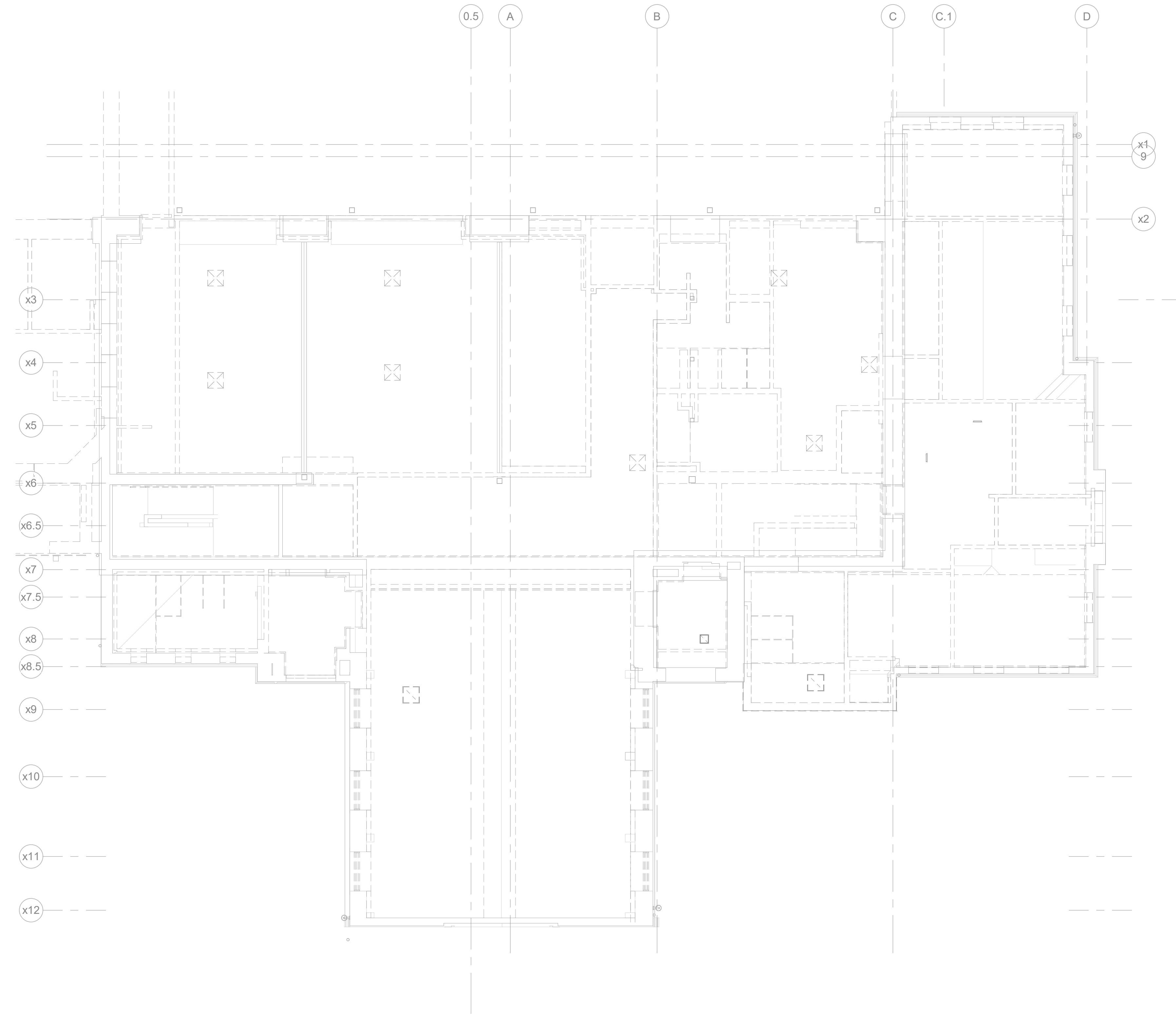
SHEET NUMBER:
FPD110

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



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1 LEVEL 1 RENOVATION - FIRE PROTECTION DEMO RCP
1/8" = 1'-0"
0 4 8 16 32

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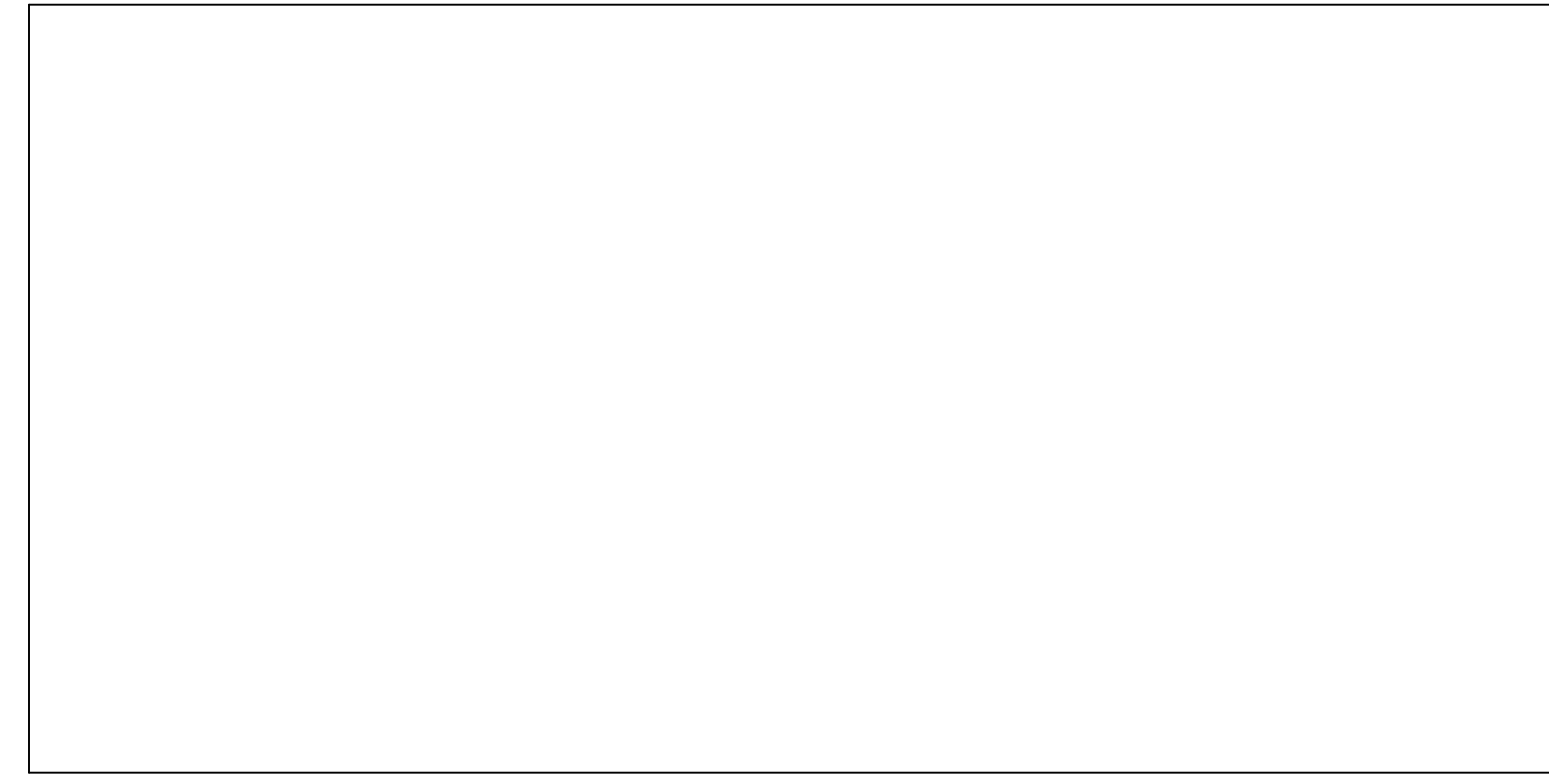
PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

SHEET NAME:
LEVEL 1 RENOVATION - FIRE PROTECTION DEMOLITION RCP

SHEET NUMBER:
FPD111 A

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



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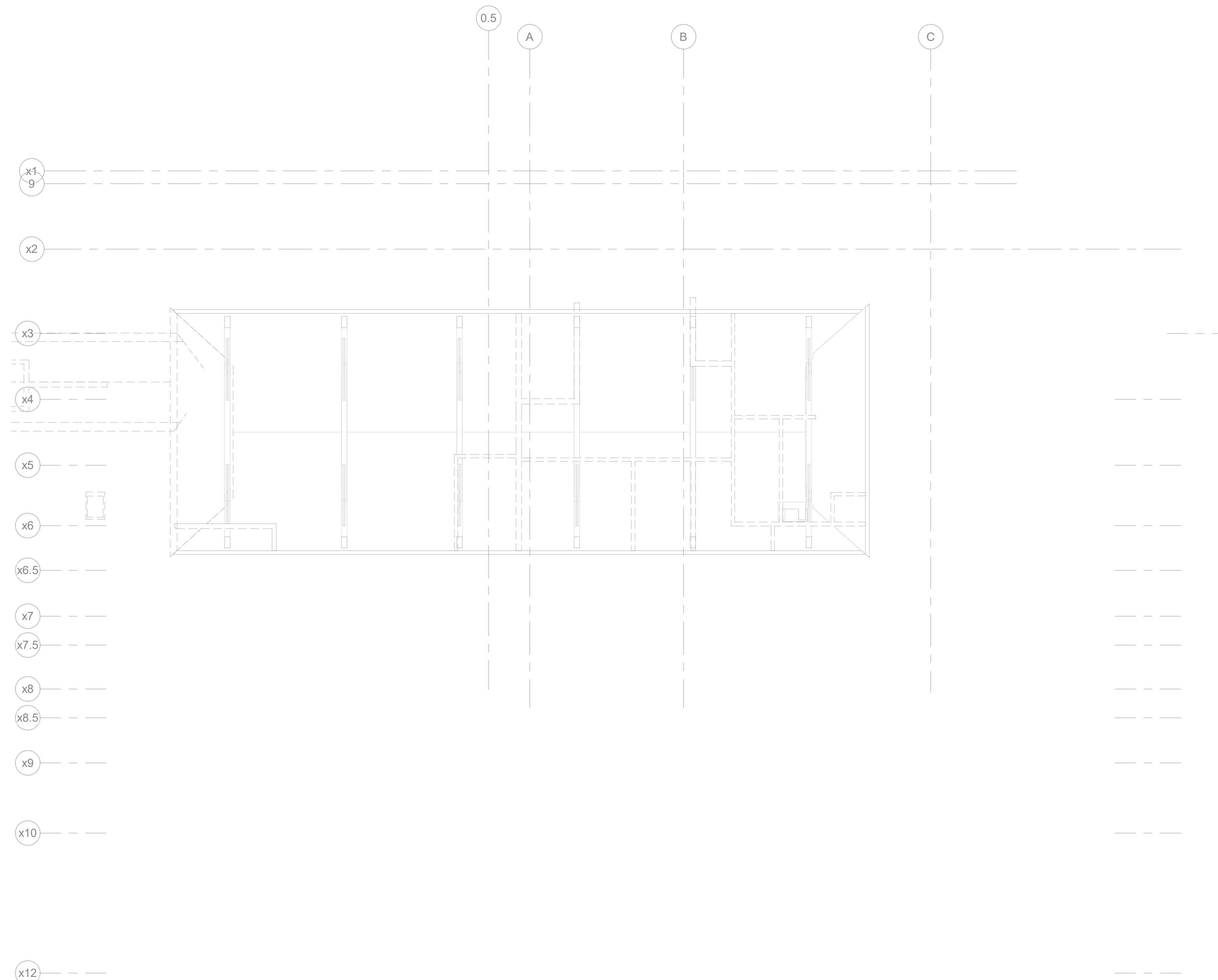
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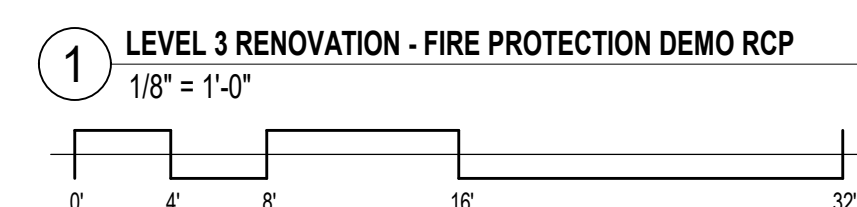
FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS
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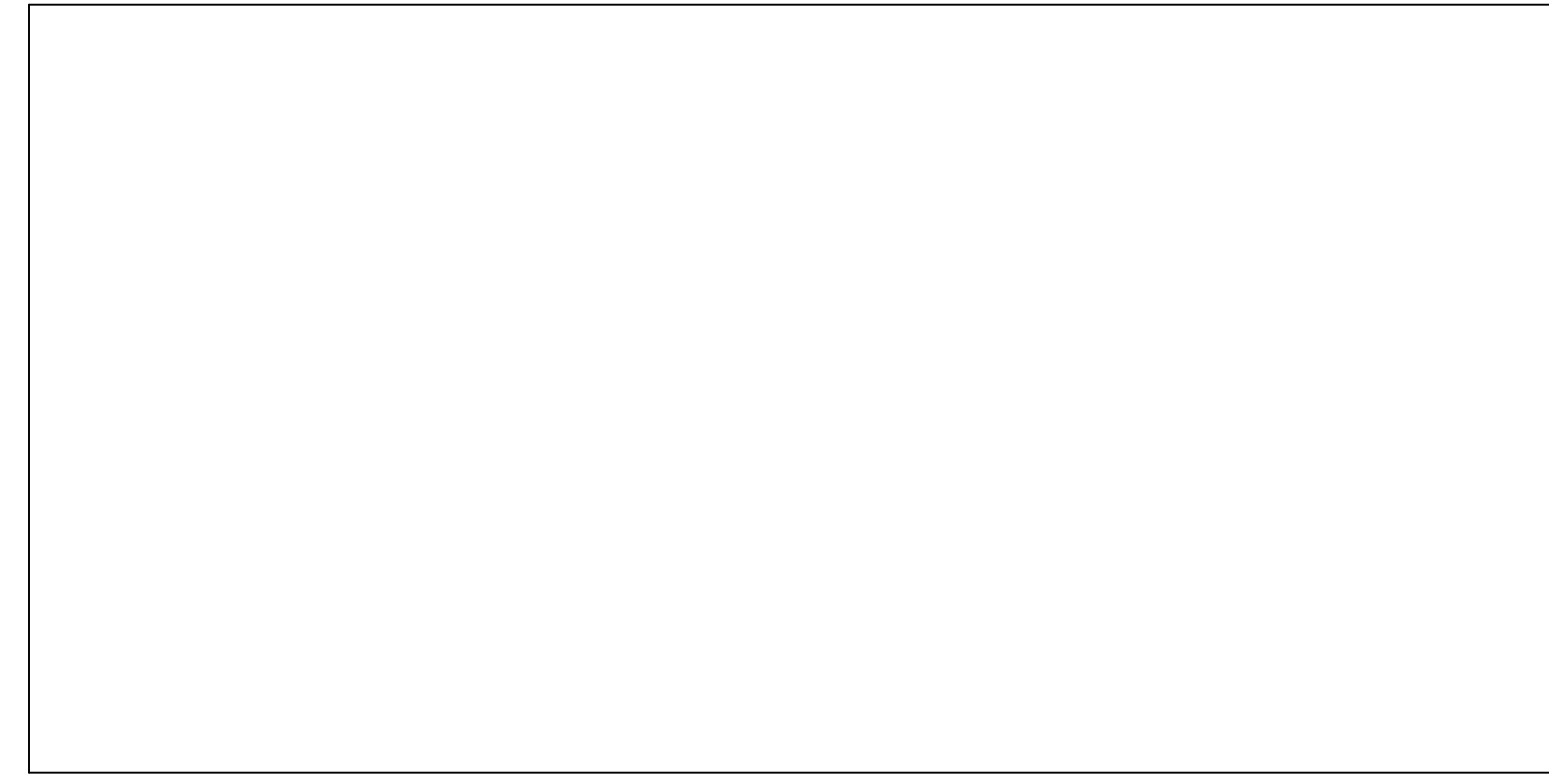
SHEET NAME:
LEVEL 3 RENOVATION - FIRE PROTECTION DEMOLITION RCP

SHEET NUMBER:
FPD113 A

PROJECT PHASE:
CONSTRUCTION DOCUMENTS



APPROVAL STAMP AREA



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DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

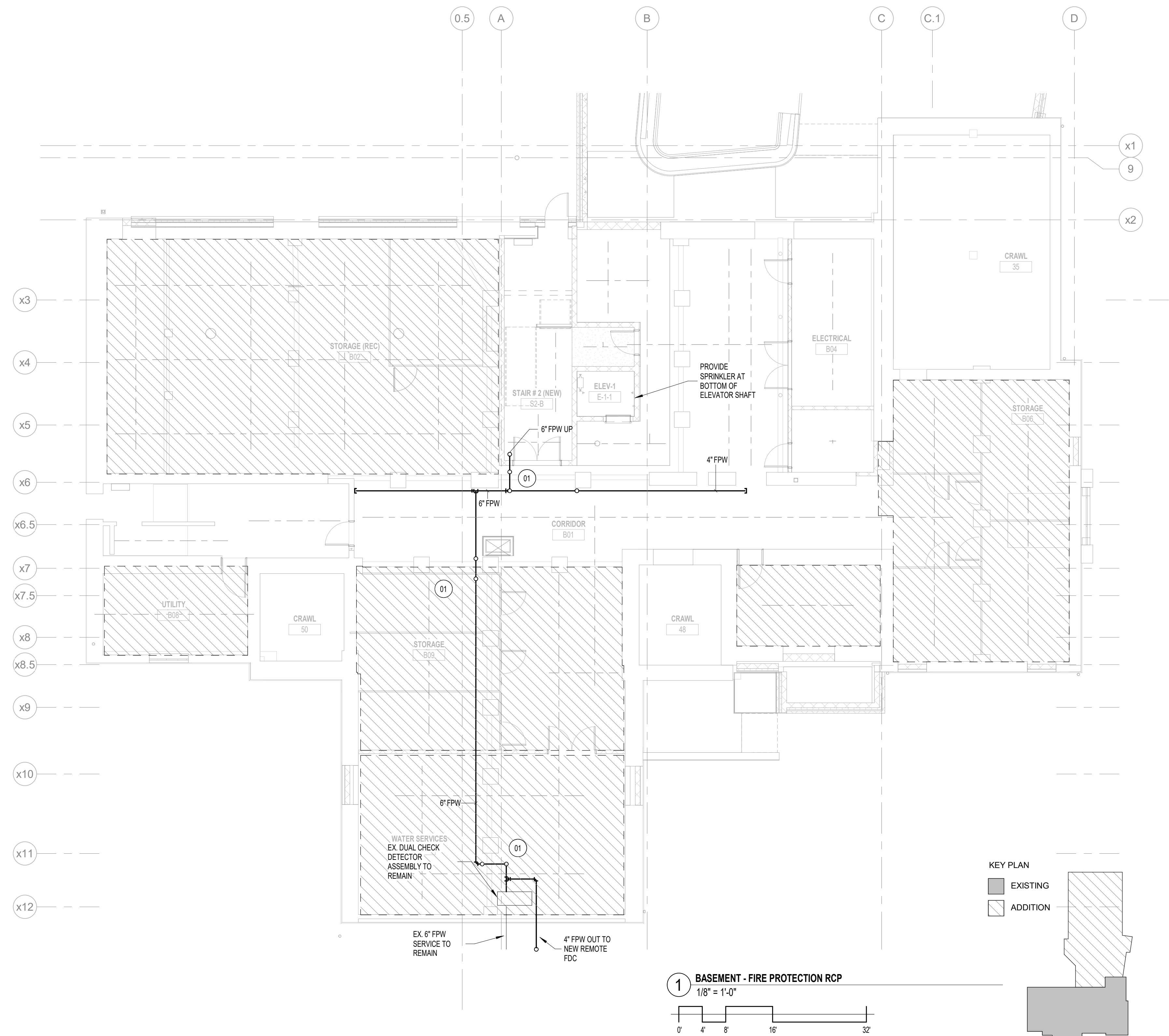
5800 Chester Ave
 Philadelphia, PA 19143

PROJECT #:	2020
SCALE:	As indicated
FORMAT:	30" X 42"
DRAWN:	KS
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DATE:	4/7/2023

SHEET NAME: BASEMENT - FIRE PROTECTION RCP

SHEET NUMBER:
FP110

PROJECT PHASE:
CONSTRUCTION DOCUMENTS



FIRE PROTECTION KEY NOTES:

01 SPRINKLER PIPING TO DROP UNDER EXISTING STRUCTURAL BEAM AND BACK UP. PROVIDE DRAIN FOR TRAPPED PIPE.

FIRE PROTECTION

PROVIDE LIGHT HAZARD SPRINKLER COVERAGE. LACK OF HATCH PATTERN INDICATES AREA OF LIGHT HAZARD SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS PER LOCAL BUILDING CODE. COORDINATE SPRINKLER ELEVATIONS AND LAYOUT WITH CEILING LAYOUT, MECHANICAL EQUIPMENT, AND LIGHTING.

LIGHT HAZARD

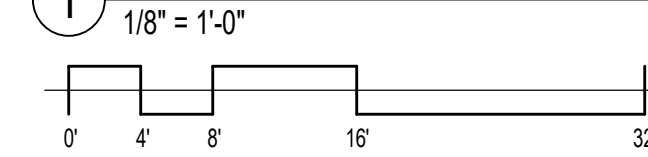
PROVIDE ORDINARY HAZARD GROUP 1 SPRINKLER COVERAGE. HATCH PATTERN INDICATES AREA OF ORDINARY HAZARD GROUP 1 SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS PER LOCAL BUILDING CODE. COORDINATE SPRINKLER ELEVATIONS AND LAYOUT WITH CEILING LAYOUT, MECHANICAL EQUIPMENT, AND LIGHTING.

ORDINARY HAZARD - GROUP 1

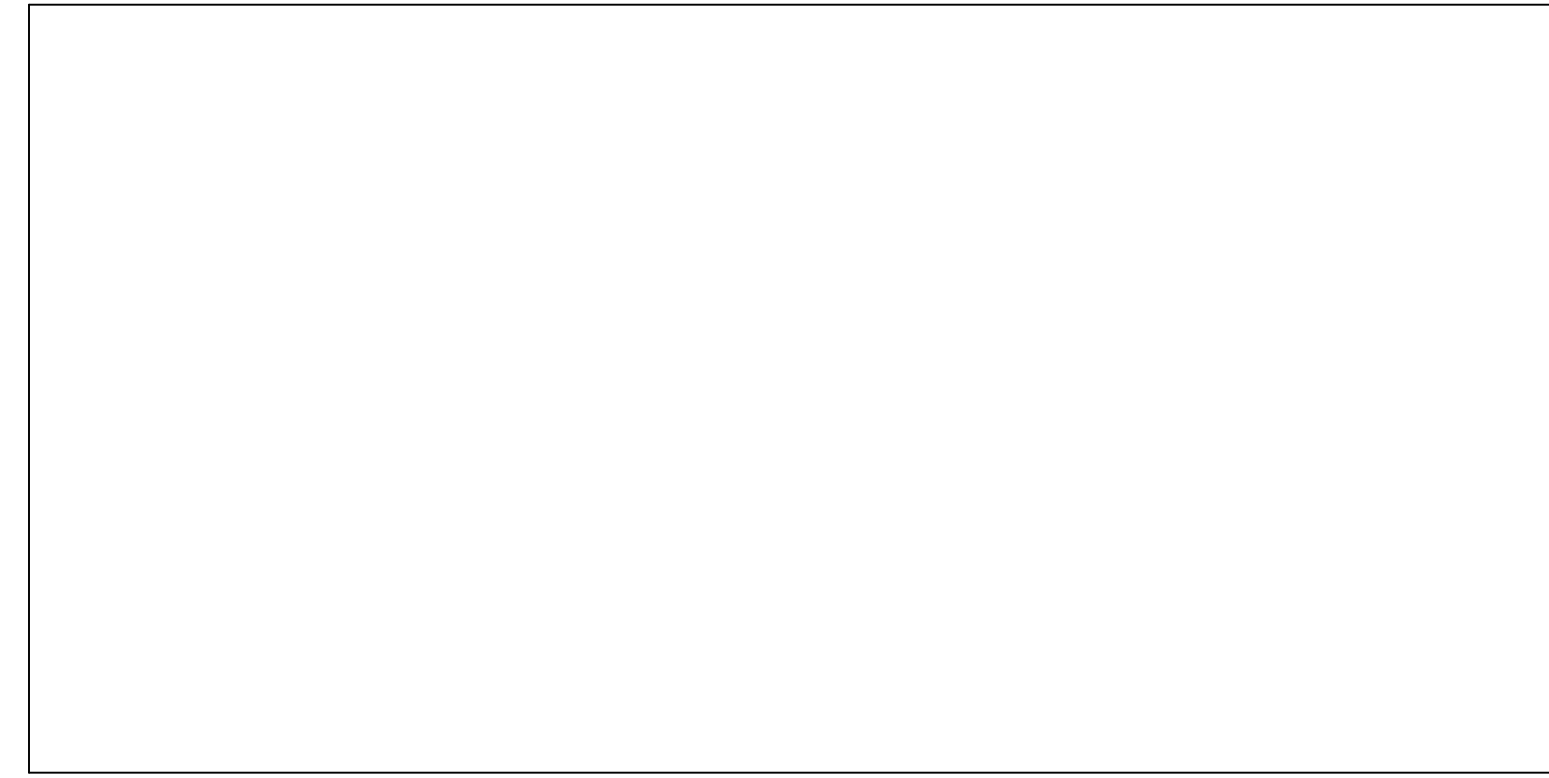
KEY PLAN

EXISTING
 ADDITION

1 BASEMENT - FIRE PROTECTION RCP



APPROVAL STAMP AREA



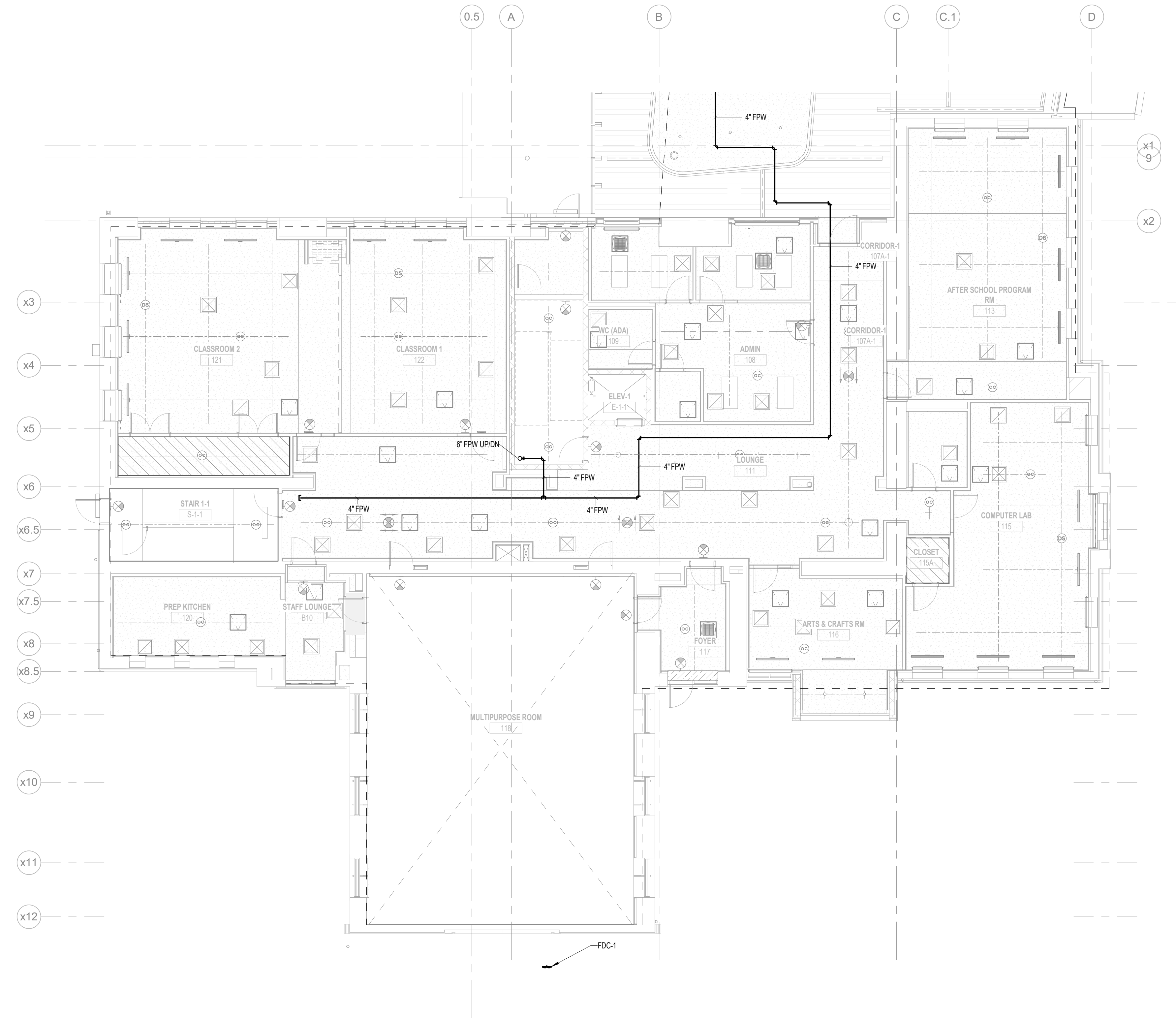
FIRE PROTECTION

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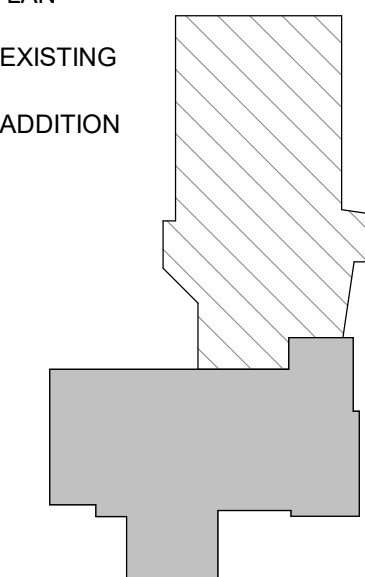
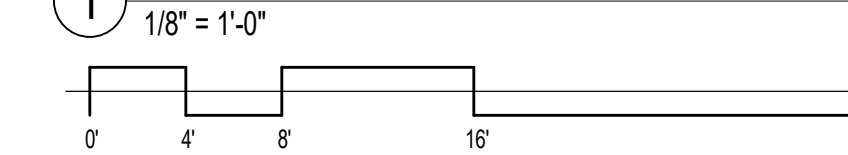
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ORDINARY HAZARD - GROUP 1



KEY PLAN
 ■ EXISTING
 ▨ ADDITION

1 LEVEL 1 RENOVATION - FIRE PROTECTION RCP
 1/8" = 1'-0"



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DATE:	DESCRIPTION:

**FRANCIS J. MYERS
 RECREATION CENTER
 SITE AND BUILDING
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 5800 Chester Ave
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PROJECT #:	2020
SCALE:	As indicated
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DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

SHEET NAME:
**LEVEL 1
 RENOVATION - FIRE
 PROTECTION RCP**

SHEET NUMBER:
FP111 A

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



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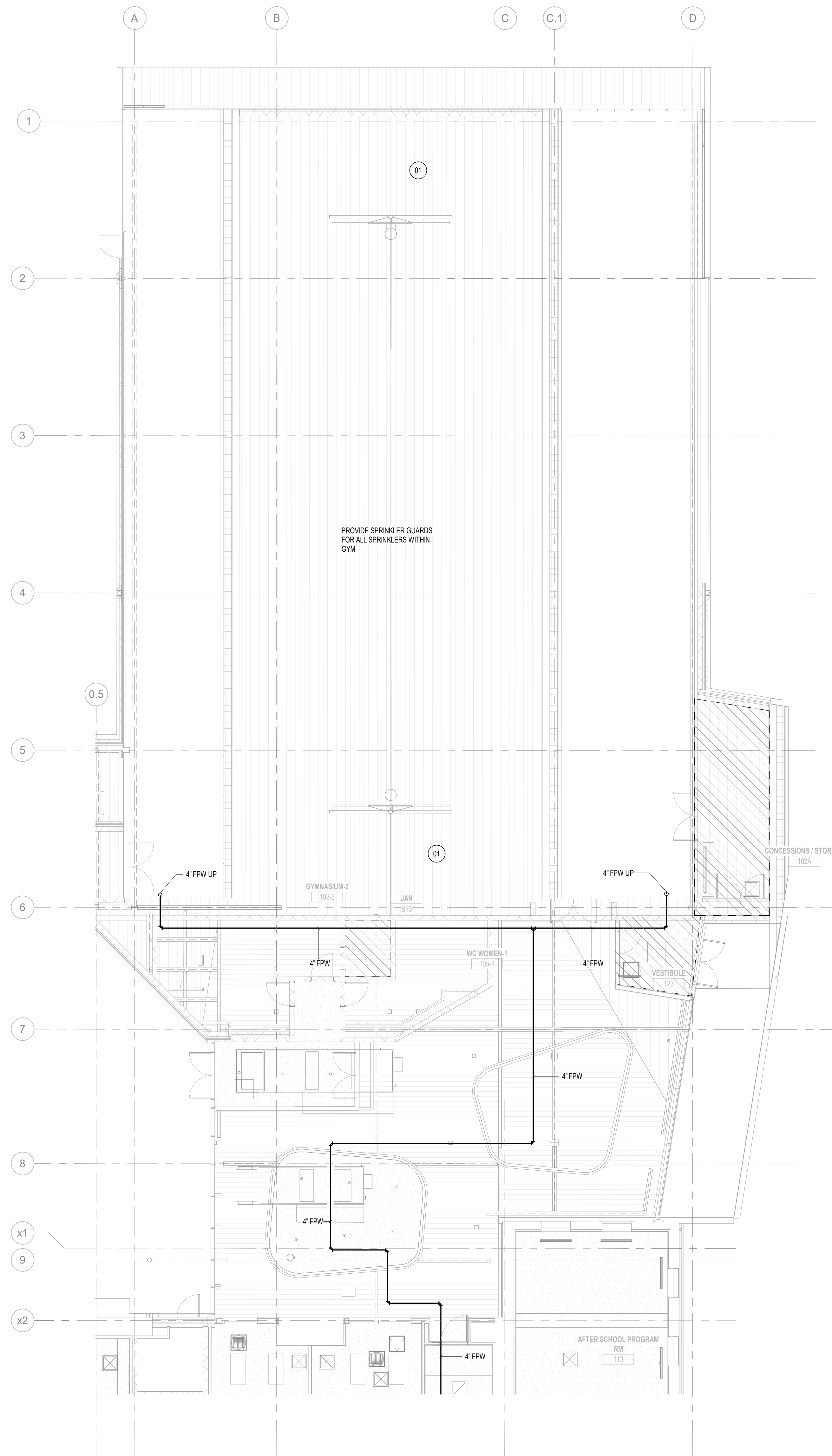
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FIRE PROTECTION SHEET KEY NOTES:

01 ALL FIRE PROTECTION PIPING TO BE MOUNTED TO THE ACUSTICAL DECK. REFER TO DETAIL #10 ON ARCHITECTURAL SHEET A812 FOR FURTHER INFORMATION.

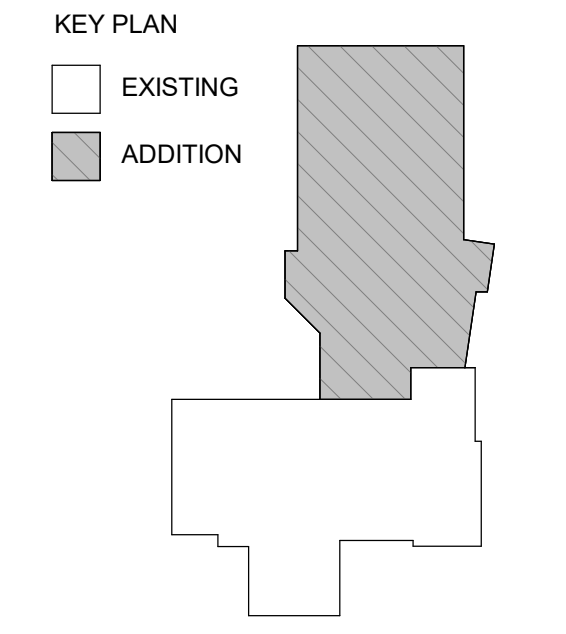
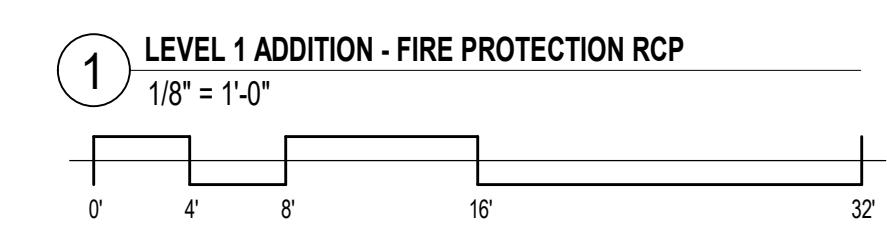
FIRE PROTECTION

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ORDINARY HAZARD - GROUP 1



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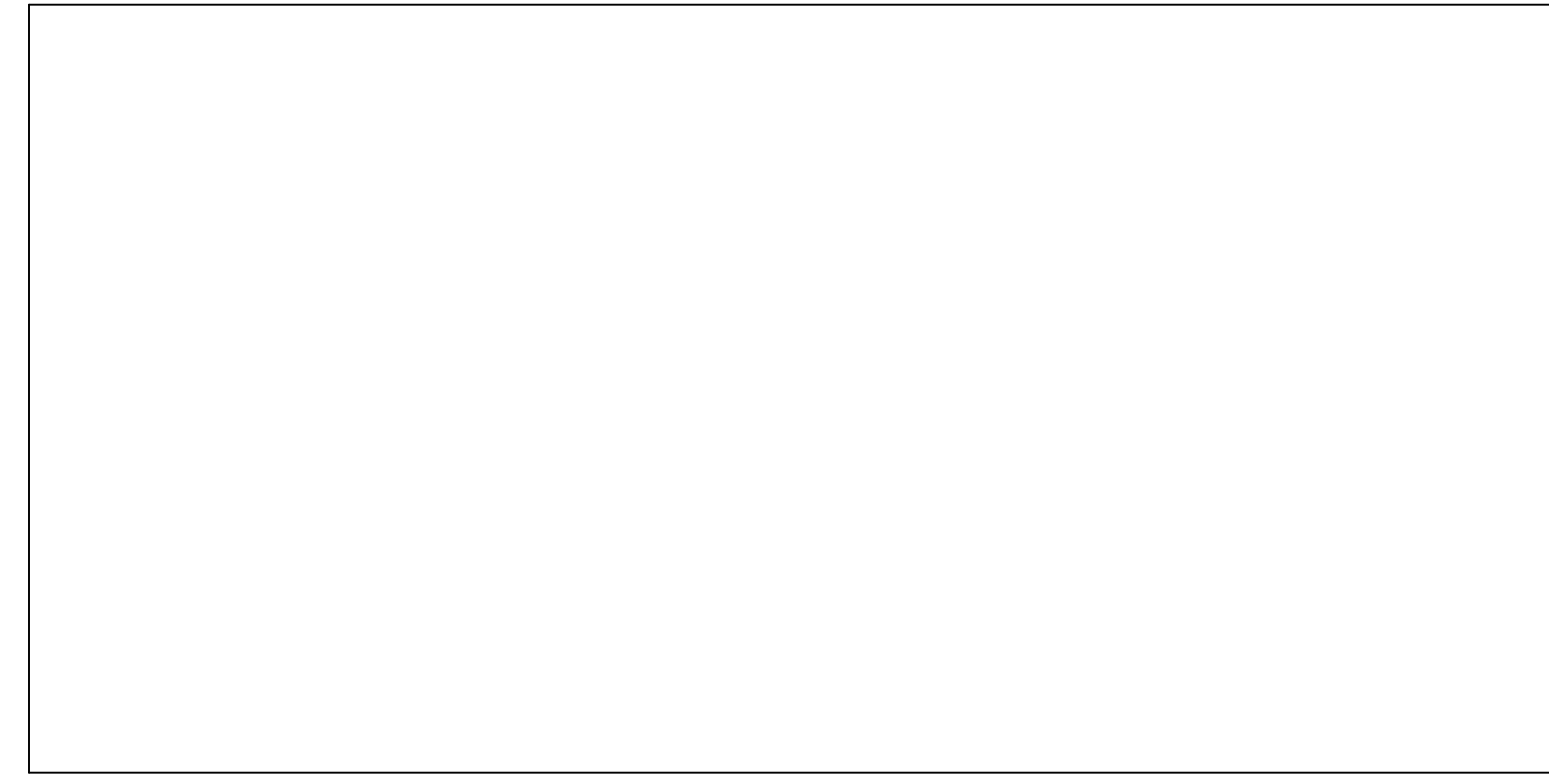
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SHEET NAME:
LEVEL 1 ADDITION - FIRE PROTECTION RCP

SHEET NUMBER:
FP111 B

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

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 600 Chestnut Street
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DATE:	DESCRIPTION:

**FRANCIS J. MYERS
 RECREATION CENTER
 SITE AND BUILDING
 IMPROVEMENTS**

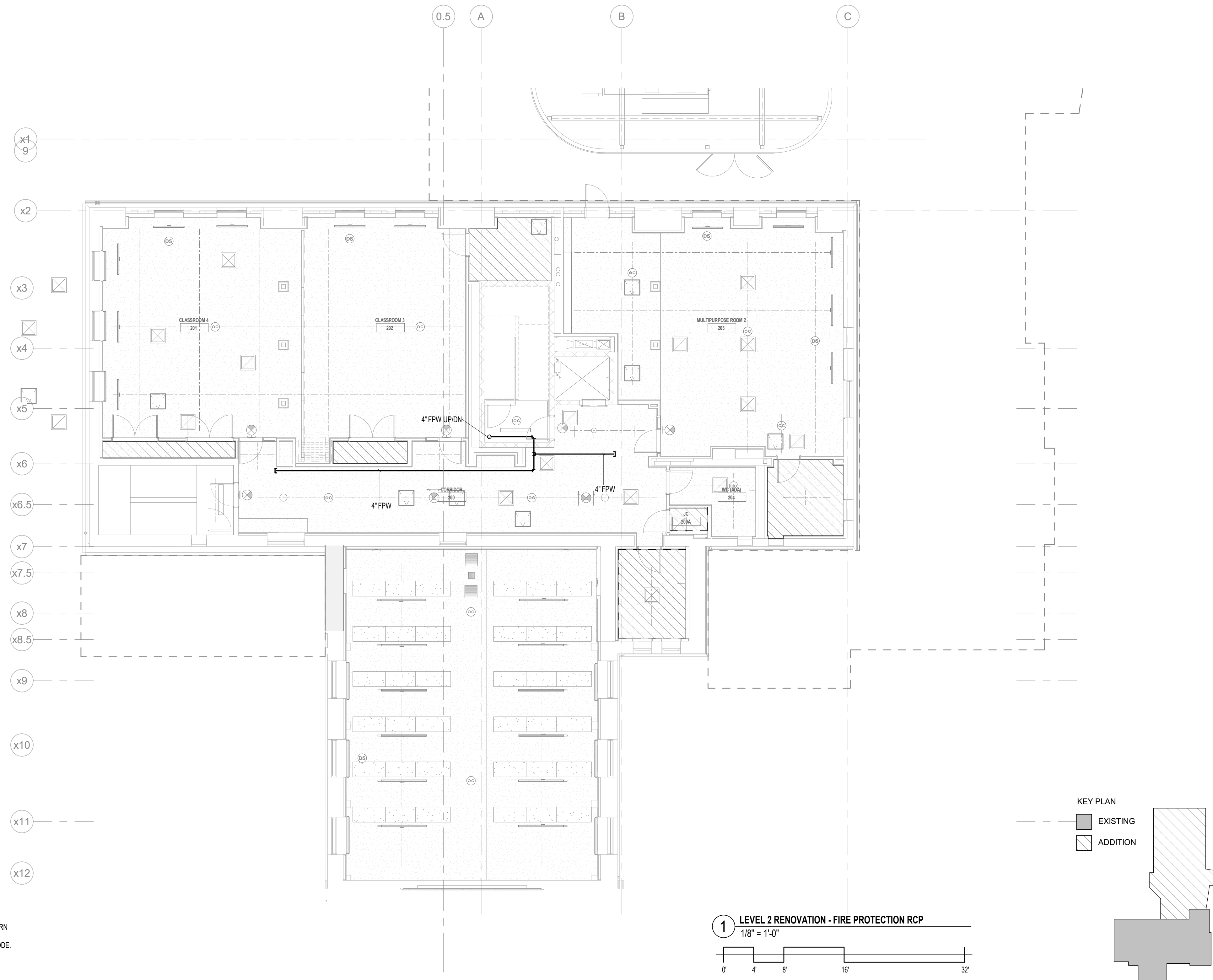
5800 Chester Ave
 Philadelphia, PA 19143

PROJECT #:	2020
SCALE:	As indicated
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

SHEET NAME:
**LEVEL 2
 RENOVATION - FIRE
 PROTECTION RCP**

SHEET NUMBER:
FP112 A

PROJECT PHASE:
CONSTRUCTION DOCUMENTS



FIRE PROTECTION

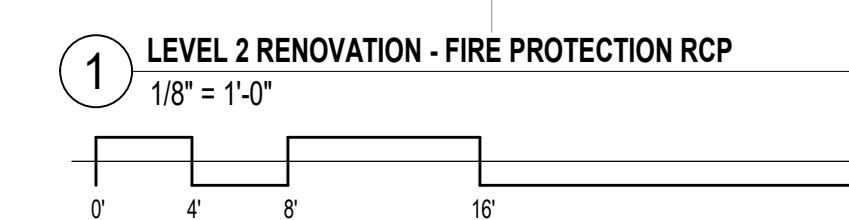
PROVIDE LIGHT HAZARD SPRINKLER COVERAGE. LACK OF HATCH PATTERN INDICATES AREA OF LIGHT HAZARD SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS PER LOCAL BUILDING CODE. COORDINATE SPRINKLER ELEVATIONS AND LAYOUT WITH CEILING LAYOUT, MECHANICAL EQUIPMENT, AND LIGHTING.

LIGHT HAZARD

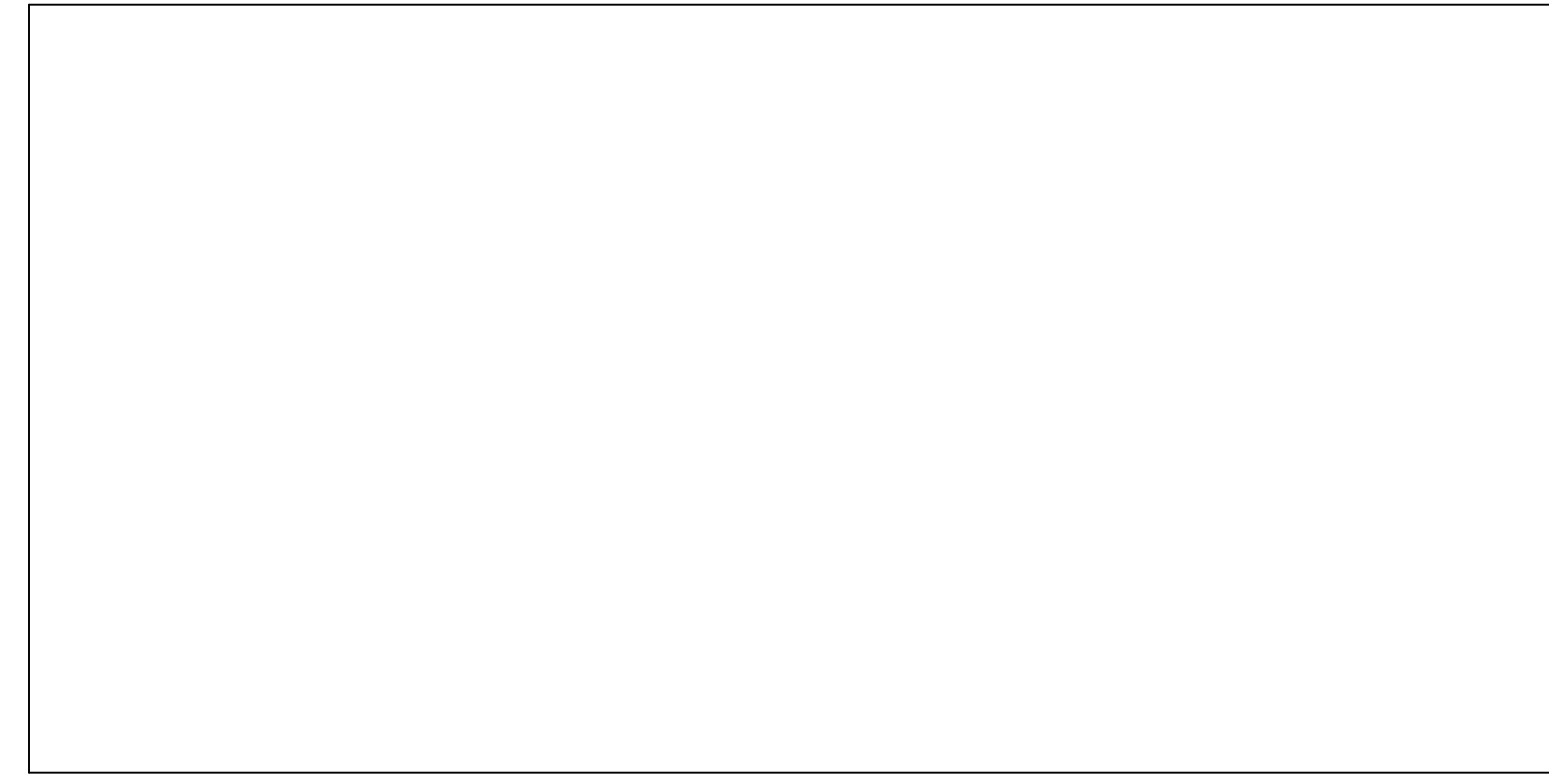
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ORDINARY HAZARD - GROUP 1

KEY PLAN
 ■ EXISTING
 ▨ ADDITION



APPROVAL STAMP AREA



FIRE PROTECTION

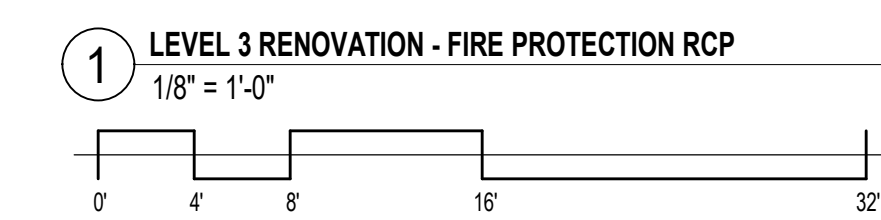
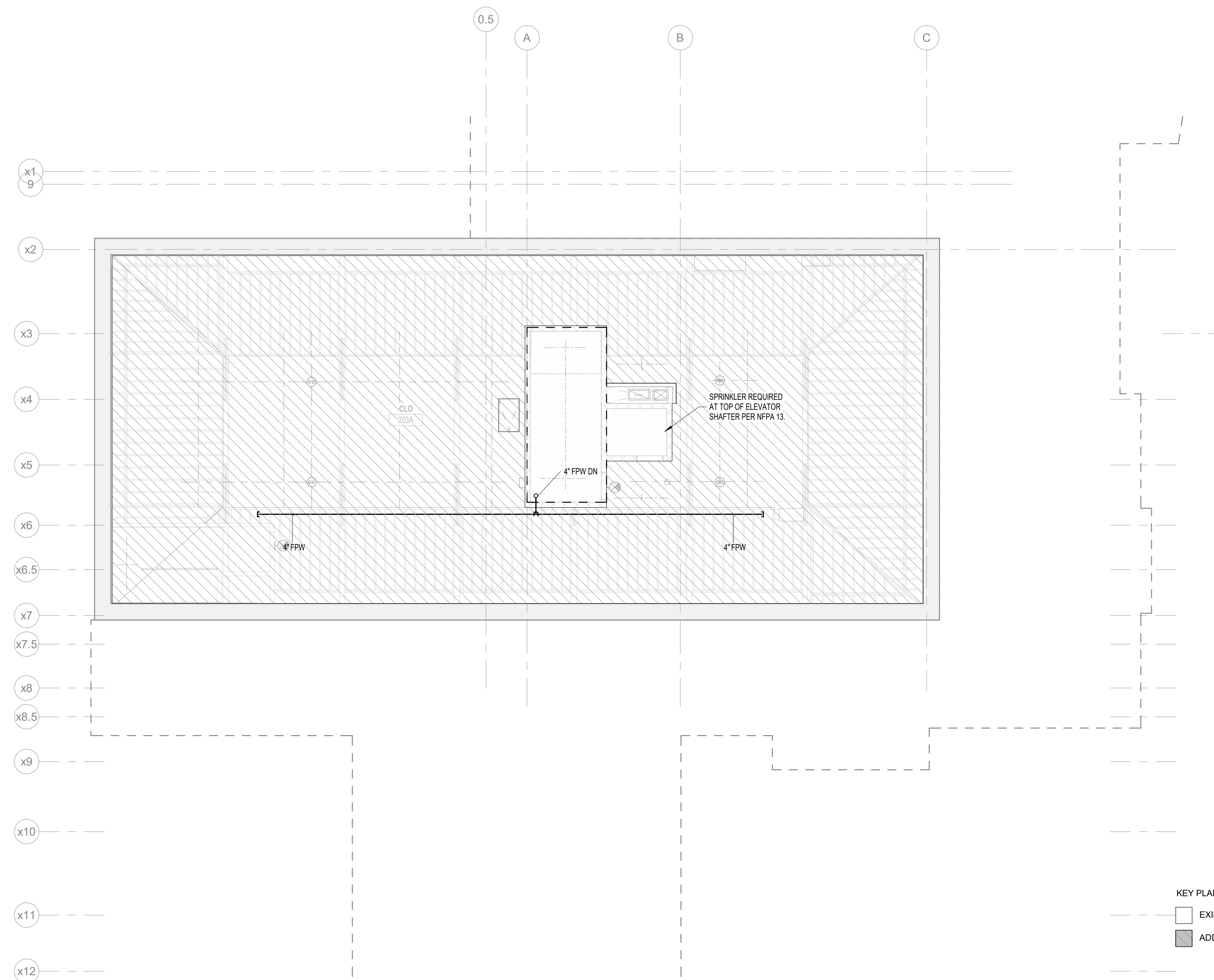
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LIGHT HAZARD

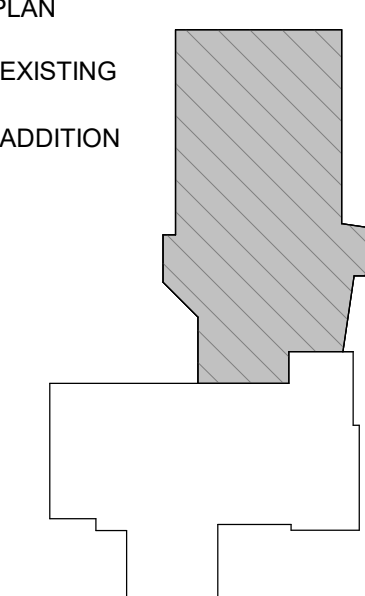
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KEY PLAN
 [White Box] EXISTING
 [Hatched Box] ADDITION



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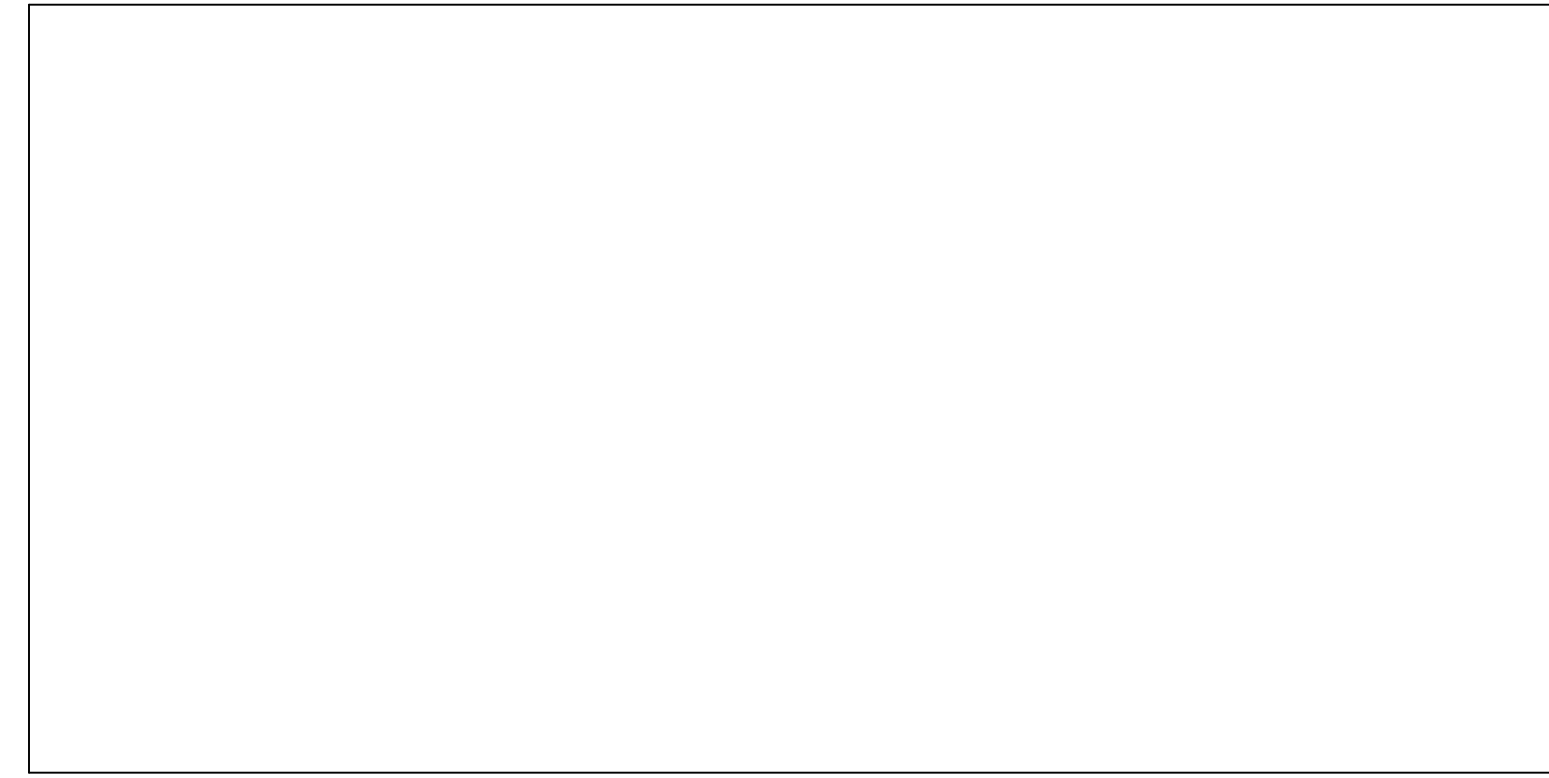
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SHEET NAME:
LEVEL 3 RENOVATION - FIRE PROTECTION RCP

SHEET NUMBER:
FP113 A

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



ROOF PEAK - GYM
37'-6"

ROOF (LOW) - ADDITION
12'-6"

GROUND FLOOR - ADDITION
-2'-6"

(A) 4" FPW

LOBBY

GYM

SPRINKLER MAINS RUN ALONG BOTH SIDES OF THE GYM AT THE LOW POINT OF THE ROOF

ROOF - EXISTING
41'-6"

LEVEL 3 - EXISTING
29'-3"

LEVEL 2 - EXISTING
16'-11"

LEVEL 1 - EXISTING
0'-0"

BASEMENT - EXISTING
-8'-4 3/4"

4" FPW OUT TO NEW FREE STANDING FDC

EX. 6" FPW FROM CIVIL TO REMAIN

EXTERIOR

INTERIOR

PROVIDE SPRINKLER AT BOTTOM OF ELEVATOR SHAFT

ELEVATOR SHAFT

PROVIDE SPRINKLER AT TOP OF ELEVATOR SHAFT

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SHEET NAME:
FIRE PROTECTION RISER DIAGRAMS

SHEET NUMBER:
FP400

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA

COMMUNICATIONS SYMBOLS - OUTLETS

	WALL OUTLET
	WALL FEEDPOINT
	CEILING OUTLET

SECURITY SYMBOLS - OUTLETS

	VIDEO SURVEILLANCE - IP CAMERA - INTERIOR CEILING
	VIDEO SURVEILLANCE - IP CAMERA - WALL OR POLE MOUNT
	INTERCOM DOOR STATION
	INTERCOM MASTER STATION
	VIDEO SURVEILLANCE WORKSTATION

NOTE: CONTRACTOR SHALL CONFIRM DOOR SEQUENCES OF OPERATION WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.

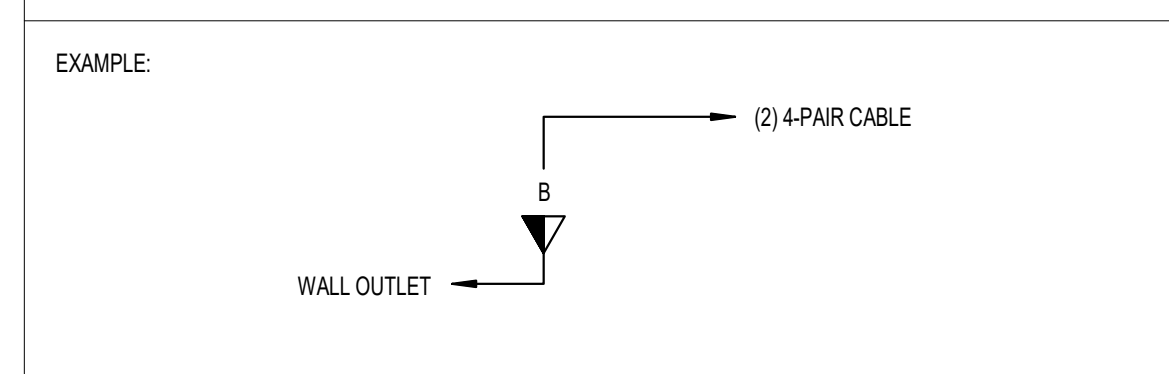
SYMBOLS

	DETAIL REFERENCE: - (X) DENOTES DETAIL NUMBER - (Y) DENOTES DRAWING NUMBER
	SECTION REFERENCE: - (X) DENOTES DETAIL NUMBER - (Y) DENOTES DRAWING NUMBER
	KEYNOTE REFERENCE: - (#) DENOTES IDENTIFIER
	UNDERGROUND HAND HOLE: - (#) DENOTES IDENTIFIER
	POLE
	SLEEVE ASSEMBLY
	CONDUIT PATHWAY
	CABLE TRAY
	CABLE RUNWAY
	PULL BOX
	CONDUIT UP
	CONDUIT DOWN

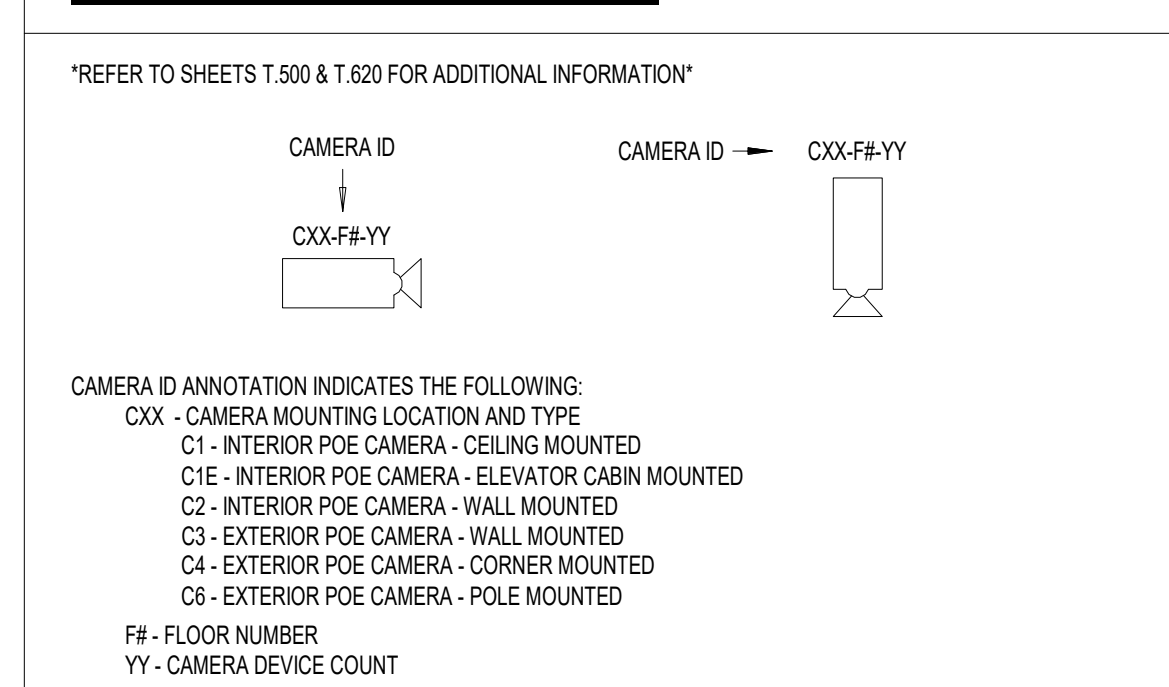
SYMBOL DESIGNATION

SYMBOL	UTP CABLES	COAXIAL CABLES	NOTES
A	1	0	STANDARD NETWORK CONNECTION
B	2	0	STANDARD NETWORK CONNECTION
W	1	0	WALL PHONE
WAP	2	0	802.11 WIRELESS ACCESS POINT (INTERIOR)
BAS	2	0	BUILDING AUTOMATION SYSTEM PANEL NETWORK CONNECTION
ELV	2	0	ELEVATOR EMERGENCY PHONE CONNECTION
FACP	3	0	FIRE ALARM CONTROL PANEL PHONE CONNECTION
LTC	2	0	LIGHTING CONTROL SYSTEM NETWORK CONNECTION

SYMBOLS WITHOUT ANY DESIGNATION ARE PATHWAYS ONLY



CAMERA TAG EXAMPLE



CONDUIT PATHWAYS AND ENCLOSURES

- GENERAL REQUIREMENTS:
 - REQUIREMENTS FOR CONDUITS AND BACK BOXES IN SPECIFICATION 27 05 33 COMMUNICATION CONDUITS AND BOXES SHALL BE FOLLOWED.

PULL BOX SIZING GUIDE

CONDUIT TRADE SIZE (IN.)	PULL BOX WIDTH (IN.)	PULL BOX LENGTH (IN.)	PULL BOX DEPTH (IN.)	PULL BOX WIDTH INCREASE FOR ADDITIONAL CONDUIT (IN.)
1	4	16	3	2
1 1/4	6	20	3	3
1 1/2	8	27	4	4
2	8	36	4	5
2 1/2	10	42	5	6
3	12	48	5	6
3 1/2	12	54	6	6
4	15	60	8	8

ABBREVIATIONS

AFC	ABOVE FINISHED CEILING
AFB	ABOVE FINISHED FLOOR
AHU	AUTHORITY HAVING JURISDICTION
BAS	BUILDING AUTOMATED SYSTEMS
BMS	BUILDING MANAGEMENT SYSTEMS
BOF	BUILDING DISTRIBUTION FACILITY
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CP	CONSOLIDATION POINT
CER	COMMUNICATIONS EQUIPMENT ROOM
DM	DIMENSION
DWG	DRAWING
EF	EMPTY CONDUIT
EF	ENTRANCE FACILITY
(E)	EXISTING
ER	EQUIPMENT ROOM
FUTP	FOIL SCREENED TWISTED PAIR
FOE	FIBER OPTIC ENTRANCE
GD	GROUND
HT	HEIGHT/HIGH
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FACILITY
LOMMF	LASER OPTIMIZED MULTIMODE FIBER
MDF	MAIN DISTRIBUTION FACILITY
MH	MAN-HOLE
MMF	MULTIMODE FIBER
MPEE	MINIMUM POINT OF ENTRY
MER	MAIN EQUIPMENT ROOM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFP	OUTSIDE PLANT CABLE
PB	PULLBOX
FR	PAIR
REQ	REQUIREMENT
RM	ROOM
SMF	SINGLE-MODE FIBER
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMG8	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TSID	TELECOMMUNICATIONS SPACE IDENTIFICATION
TR	TELECOMMUNICATIONS ROOM
TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
UPS	UNINTERRUPTIBLE POWER SUPPLY
(U)UTP	UNSHIELDED TWISTED PAIR
UON	UNLESS OTHERWISE NOTED
VF	VERIFY IN FIELD
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
ZDF	ZONE DISTRIBUTION FACILITY

GENERAL TECHNOLOGY NOTES

APPLICABLE TO ALL TECHNOLOGY DRAWINGS

- ALL CABLES SHALL BE RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. DIRECT CONNECT FIELD ASSEMBLY OF EQUIPMENT TO NETWORK CABLING IS PERMITTED.
- IT SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO VERIFY THE APPLICABLE CODE VERSION WITH THE AUTHORITY HAVING JURISDICTION (AHJ) FOR ALL WORK PERFORMED.
- NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE TELECOM DRAWINGS. OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK.
- A COPY OF THE SPECIFICATIONS AND DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE AND SHALL BE PRESENTED UPON REQUEST. MAINTAIN DAILY MARKUPS OF ACTUAL INSTALLATION AND PRESENT FOR REVIEW DURING ALL SITE VISITS BY ENGINEER.
- CABLE BUNDLING IS TO BE AVOIDED. ALL CABLES SHALL BE ALLOWED TO LAY NATURALLY IN CABLE TRAYS AND RUNWAYS. WHEN BUNDLING IS NECESSARY NO BUNDLE SHALL BE LARGER THAN 24 CABLES.
- EXACT MOUNTING LOCATIONS AND HEIGHTS ARE FIELD COORDINATION ISSUES. CONTRACTOR TO COORDINATE WITH EXISTING CONDITIONS ON SITE TO PROVIDE THE MOST AESTHETIC APPEARANCE AND ALIGNMENT WITH NEARBY DEVICES.
- TELECOMMUNICATIONS ROOM DIMENSIONS ON THE DRAWINGS HAVE BEEN TAKEN FROM ARCHITECTURAL DRAWINGS. THE SCALE OF THESE DRAWINGS ARE SUFFICIENTLY ACCURATE FOR DETERMINING THE LOCATION OF TELECOMMUNICATIONS INFRASTRUCTURE COMPONENTS: JUNCTION BOXES, OUTLET BOXES, RACEWAYS, RUNWAYS, PANELS, ETC. WHERE EXACT DIMENSIONS ARE INDICATED, THE REFERENCE SURFACE SHALL BE THE FINAL FINISHED SURFACE INCLUDING ANY ACOUSTICAL TREATMENT.
- ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD AND ANY DEVIATIONS CAUSING CHANGES EXCEEDING 6 INCHES TO THE INTENDED LOCATION OF MAJOR TELECOMMUNICATIONS INFRASTRUCTURE COMPONENTS SHALL BE COORDINATED WITH THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
- IT SHALL BE THE RESPONSIBILITY OF THE TELECOMMUNICATIONS CONTRACTOR TO COORDINATE AND VERIFY SIGNAL/CONDUIT PATHWAYS WITH THE ELECTRICAL DRAWINGS.
- REFER TO DIVISION 27 SPECIFICATIONS FOR INSTALLATION REQUIREMENTS RELATED TO FLOORBOXES, JUNCTION BOXES, BONDING CONDUCTORS, BUSBARS, CONDUITS, CONDUIT BENDS, RUNWAYS IN CORRIDORS, METALLIC ENCLOSURES.
- BOND ALL CONDUITS, CABLE TRAYS, AND JUNCTION BOXES IN TELECOMMUNICATION SPACES PER 71A-607 IN ADDITION TO ANY APPLICABLE CODE REQUIREMENTS.
- PRIOR TO DRILLING OR CORING ANY CONCRETE, NEW OR EXISTING, REBAR AND PT TENDON SHALL BE LOCATED BY SCANNING. SHOP DRAWINGS SHOWING THE COORDINATED LOCATIONS OF OPENINGS AND ANCHORS TO AVOID DAMAGING REBAR AND PT TENDONS SHALL BE SUBMITTED. CORING OF POST-TENSION CONCRETE IS NOT PERMITTED WITHOUT THE REVIEW OF THE ARCHITECTS.
- ALL TELECOMMUNICATIONS RELATED FLOORBOXES, POKE THRU DEVICES, JUNCTION BOXES AND BACK BOXES SHOULD BE PROVIDED WITH AN EMPTY CONDUIT TO THE APPLICABLE TELECOM ROOM, CABLE TRAY, RUNWAY, PULL BOX, OR OPEN ACCESS CEILING AREA.
- CONDUIT ROUTES ON THE TELECOM DRAWINGS SHOW ONLY INTERCONNECTION BETWEEN THE TERMINATION POINTS AND APPROXIMATE ROUTES. THE EXACT ROUTE OF CONDUIT PATHWAYS SHALL BE COORDINATED AND VERIFIED BY CONTRACTOR BASED ON FIELD CONDITIONS.
- CABLE PATHWAYS ON THE TELECOM DRAWINGS SHOW ONLY APPROXIMATE ROUTES. THE EXACT ROUTE OF PATHWAYS ARE TO BE COORDINATED AND VERIFIED BY CONTRACTOR BASED ON FIELD CONDITIONS.
- THE METHOD OF INSTALLATION FOR ALL TELECOMMUNICATIONS RELATED BACKBOXES IN WALLS AND THE METHOD FOR PASSAGE OF CONDUIT AND RUNWAYS THROUGH ACOUSTICALLY SENSITIVE WALLS SHALL BE COORDINATED WITH THE ACOUSTICAL CONSULTANT OR OWNER PRIOR TO INSTALLATION.
- ALL TELECOMMUNICATIONS DEVICES SHALL BE SECURELY MOUNTED PLUMB AND STRAIGHT TO WALLS, FLOORS, OR RACKS, PER THE MANUFACTURER'S RECOMMENDED MOUNTING PRACTICE.
- CABLES INSTALLED IN ANY UNDERGROUND CONDUITS, INCLUDING UNDER OR WITHIN A SLAB ON GRADE, SHALL BE INDOOR/OUTDOOR RATED.
- INSTALL FIRESTOP ASSEMBLIES IN ALL THROUGH-SLAB OR THROUGH-WALL RATED BARRIER PENETRATIONS FOR THE INSTALLATION OF TELECOMMUNICATIONS CABLING AS REQUIRED TO MAINTAIN FIRE RATING OF PENETRATED SLAB OR WALL. REVIEW DRAWINGS FOR PARTITION TYPE RATINGS. FIRESTOPPING SYSTEMS USED FOR ALL PENETRATIONS SHALL BE A UL LISTED ASSEMBLY AND APPROVED BY APPLICABLE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
- SLEEVE ASSEMBLIES THAT PENETRATE RATED BARRIERS SHALL BE E2-PATH OR EQUAL ASSEMBLIES TO ALLOW FOR SINGLE MAINTENANCE FREE RE-ENTRY WITHOUT DISTURBING SEALANT AND SHALL A PROVIDE SMOKE BARRIER IN ADDITION TO FIRE RATING.
- ELECTRICAL FEEDS ARE NOT TO BE RUN PARALLEL WITH VIDEO, AUDIO, OR TELECOMMUNICATIONS CABLING OR RACEWAYS. IF ELECTRICAL FEEDS MUST BE RUN PARALLEL, A MINIMUM OF 6 INCHES OF SEPARATION SHALL BE MAINTAINED.
- POWER RECEPTACLES SHOWN ON TELECOMMUNICATIONS DRAWINGS ARE DEDICATED TO SPECIFIC TELECOMMUNICATIONS EQUIPMENT AND ARE SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR ENGINEERED ELECTRICAL SYSTEM AND ADDITIONAL UTILITY POWER RECEPTACLES.
- THE FINISHES FOR ALL TELECOM COMPONENTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT.
- AUDIO/VISUAL AND SECURITY OUTLET DETAILS ARE PROVIDED IN THEIR RESPECTIVE DRAWING SETS. REFER TO DETAILS IN THOSE DRAWINGS FOR HEIGHT AND LOCATION DETAILS FOR AV AND SECURITY OUTLETS AND DEVICES.
- TERMINATION OF OUTLETS IN ELEVATOR CONTROL, AND ELEVATOR MACHINE ROOMS SHALL BE COORDINATED WITH ELEVATOR CONTRACTOR. ADDITIONAL SLACK MAY BE REQUIRED IN THESE LOCATIONS.
- DIRECT CONNECT FIELD ASSEMBLY OF EQUIPMENT TO NETWORK CABLING IS PERMITTED.
- CONTRACTOR SHALL RETURN ALL EXISTING CAMERAS, SURVEILLANCE HEAD EQUIPMENT (AND ASSOCIATED EQUIPMENT, COMPUTERS AND ACTIVE NETWORK EQUIPMENT TO OWNER (PPR).

SHEET LIST

SHEET NUMBER	SHEET NAME
T000	TECHNOLOGY SYMBOLS, NOTES & ABBREVIATIONS
T100	TECHNOLOGY SITE PLAN
T110	LEVEL 6 RENOVATION - TECHNOLOGY PLAN
T111 A	LEVEL 1 RENOVATION - TECHNOLOGY PLAN
T111 B	LEVEL 1 ADDITION - TECHNOLOGY PLAN
T112 A	LEVEL 2 RENOVATION - TECHNOLOGY PLAN
T113 A	LEVEL 3 RENOVATION - TECHNOLOGY PLAN
T310	ENLARGED TECHNOLOGY AXONOMETRICS
T500	TECHNOLOGY SCHEDULES
T600	TECHNOLOGY DETAILS - STRUCTURED CABLING
T601	TECHNOLOGY DETAILS - STRUCTURED CABLING
T620	TECHNOLOGY DETAILS - VIDEO SURVEILLANCE
TD101 A	BASEMENT - TECHNOLOGY DEMOLITION PLAN



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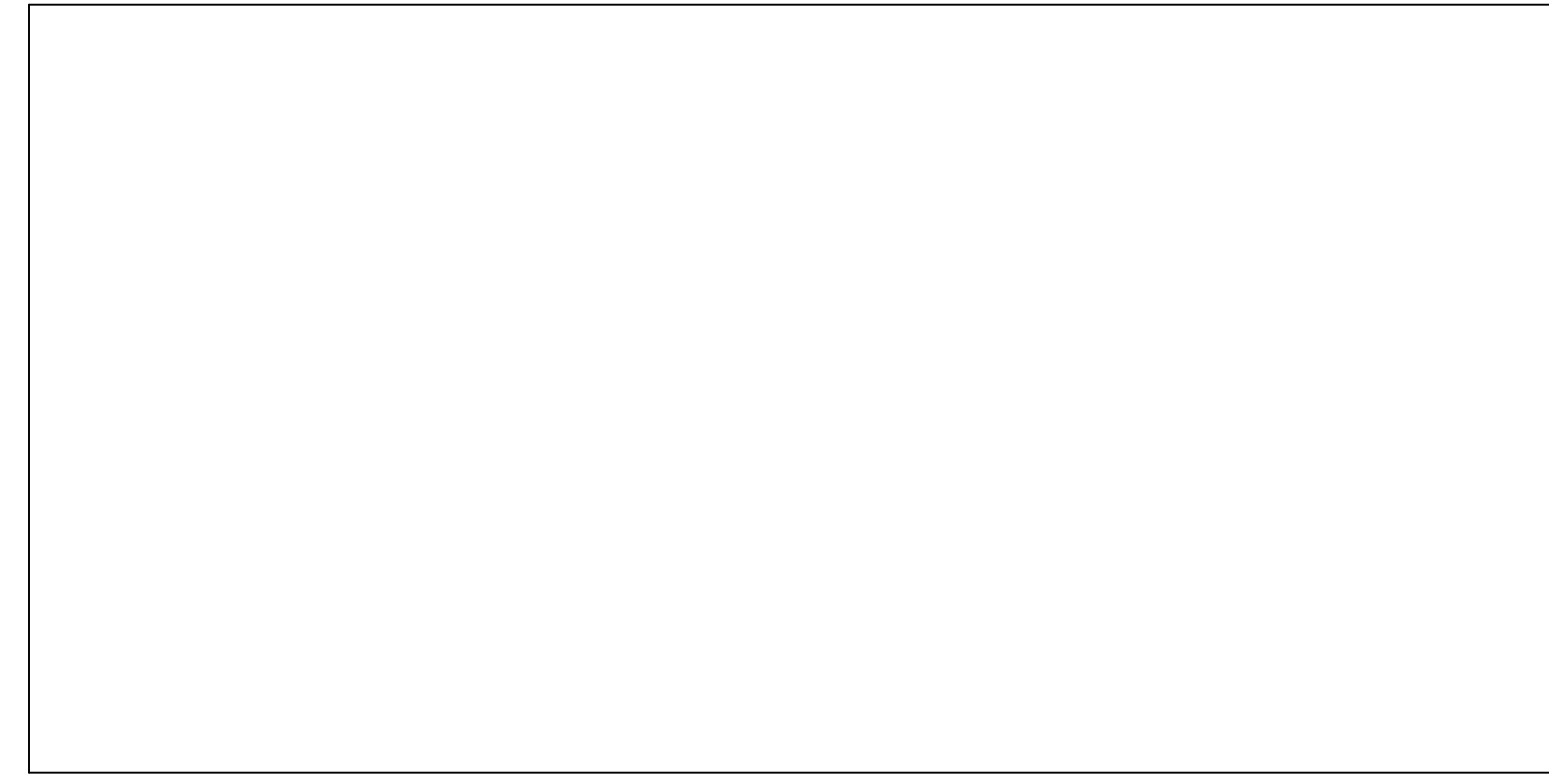
SHEET NAME: TECHNOLOGY SYMBOLS, NOTES & ABBREVIATIONS

SHEET NUMBER:
T000

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

GENERAL NOTE: NOT ALL SYMBOLS, NOTES AND ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT

APPROVAL STAMP AREA



TECHNOLOGY DEMOLITION NOTES:

1. A COMPLETE AND ACCURATE DESCRIPTION OF ALL TECHNOLOGY WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIA OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING TECHNOLOGY WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM WHATEVER WORK AND PROVIDE WHATEVER MATERIALS ARE REQUIRED IN ORDER TO REMOVE, REROUTE, RELOCATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE TECHNOLOGY WORK. SUCH PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED AS INCLUDED UNDER THE CONTRACT.
2. THE TECHNOLOGY DRAWINGS ARE GENERALLY INSTRUCTIVE OF THE ALTERATIONS WHICH INVOLVE THE EXISTING TECHNOLOGY WORK. IT IS NOT INTENDED THAT SUCH ALTERATIONS BE LIMITED TO THESE INSTRUCTIONS.
3. WHERE EXISTING INTERIOR AND/OR SITE TECHNOLOGY WORK MUST BE DEMOLISHED AS A RESULT OF THE ALTERATIONS, IT SHALL BE COMPLETELY DEMOLISHED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE REVISION. ALL CONDUIT, WIRE, SUPPORTS, HANGERS, ETC. ARE INCLUDED. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, ALL WIRE SHALL BE PULLED OUT OF CONDUIT AND THE CONDUIT ITSELF PLUGGED AT EACH END.
4. EXISTING TECHNOLOGY MATERIALS AND EQUIPMENT, INCLUDING TELECOMMUNICATIONS DEVICES, SECURITY DEVICES, CONDUIT, OUTLETS, FITTINGS, WIRE, CABLE AND OTHER DEVICES WHICH ARE DEMOLISHED AS A RESULT OF THE ALTERATIONS SHALL BE STORED ON THE SITE AS DIRECTED.
5. ALL ITEMS OF EXISTING EQUIPMENT, MATERIALS, ETC. SHALL REMAIN THE PROPERTY OF THE BUILDING OWNER. ALL REUSABLE ITEMS SALVAGED DURING DEMOLITION SHALL BE RETAINED AND TURNED OVER TO THE BUILDING OWNER.
6. LEGALLY DISPOSE ALL ITEMS REJECTED OR UNWANTED BY THE BUILDING OWNER. EXISTING TECHNOLOGY MATERIALS AND EQUIPMENT, WITH THE EXCEPTION OF WIRE AND CABLE, AS GENERALLY OUTLINED IN THE PREVIOUS PARAGRAPH, SHALL BE REUSED AS COMPLETELY AS IS FOUND PRACTICAL. EXAMINE THE CONDITION OF SUCH MATERIALS AND EQUIPMENT AND MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE. PRESENT FINDINGS PERIODICALLY TO THE ARCHITECT WHO IN TURN WILL MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE SHALL BE NEW.
7. CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING CONSTRUCTION DUE TO DEMOLITION, ALTERATIONS, OPERATION OR INSTALLATION OF NEW WORK.
8. CONTRACTOR SHALL PERFORM ALL INTERIOR AND/OR SITE CUTTING AND PATCHING FOR TECHNOLOGY WORK UNLESS NOTED OTHERWISE.

TECHNOLOGY DEMOLITION KEY NOTES:

1. LOCATION OF EXISTING INCOMING SERVICE PROVIDER EQUIPMENT AND CABLING AND TELEPHONE SYSTEM. COORDINATE WITH SERVICE PROVIDER FOR RELOCATION OF EQUIPMENT TO NEW MDF ROOM IN BASEMENT LEVEL. (REFER TO SHEET T110 FOR NEW LOCATION) PRIOR TO DEMOLITION WORK. CONTRACTOR SHALL COORDINATE WITH OWNER FOR TELEPHONE LINE INFORMATION AND WORK WITH SERVICE PROVIDER TO ENSURE EXISTING TELEPHONE NUMBER AND SERVICE CONNECTION SHALL REMAIN.



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DataBase+
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DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

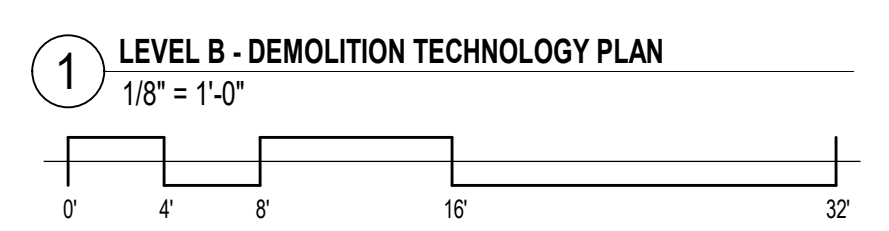
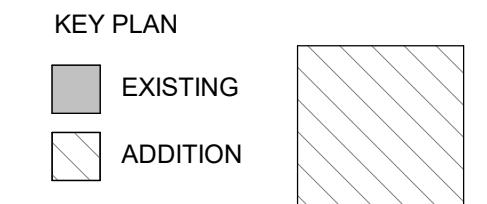
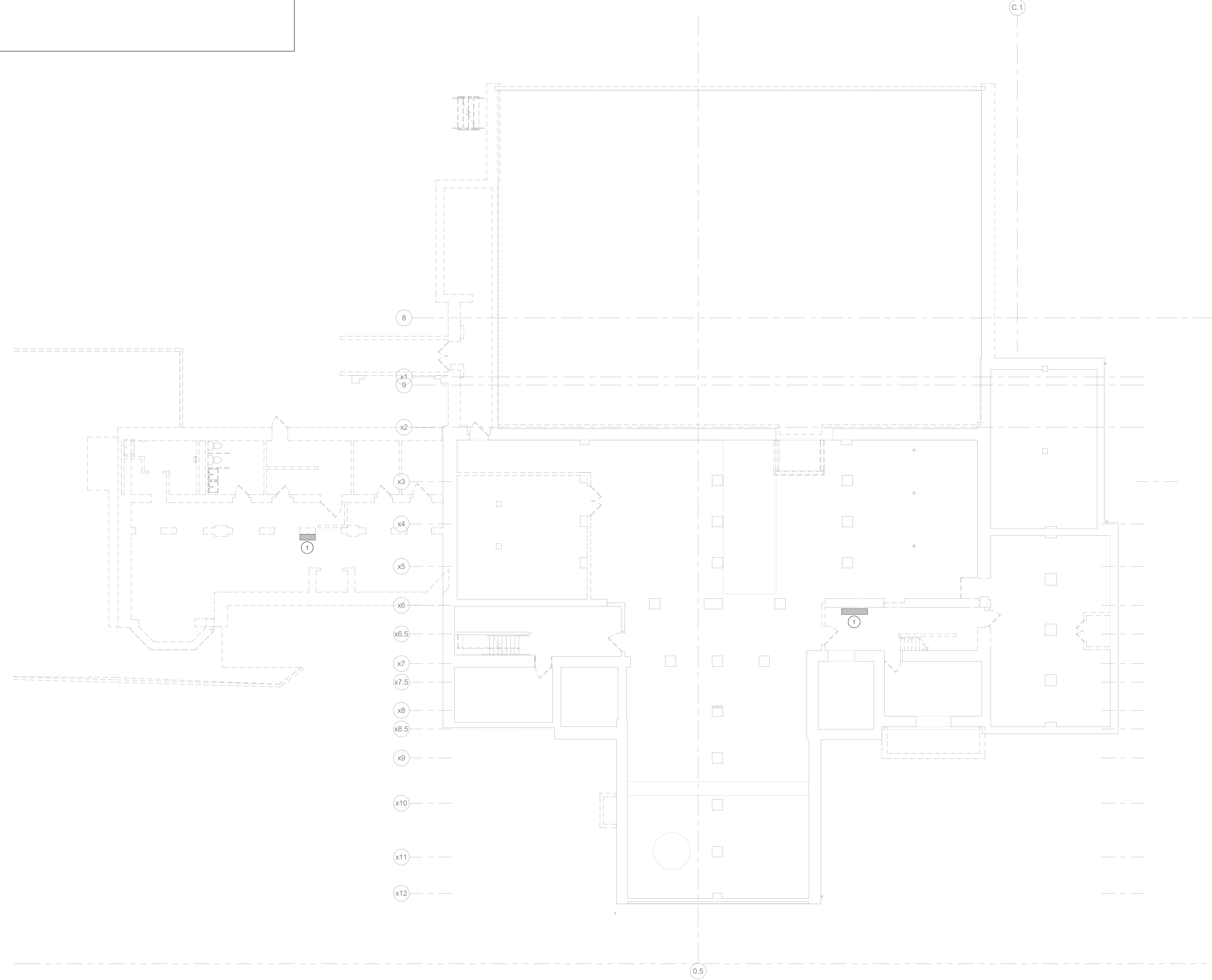
5800 Chester Ave
 Philadelphia, PA 19143

PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	GD
CHECKED:	SS
DATE:	4/7/2023

SHEET NAME:
BASEMENT - TECHNOLOGY DEMOLITION PLAN

SHEET NUMBER:
TD110 A

PROJECT PHASE:
CONSTRUCTION DOCUMENTS



APPROVAL STAMP AREA



TECHNOLOGY SHEET NOTES:

- REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF EXISTING SITE LIGHTING POLES.
- TERMINATE CONDUIT DUCT BANK CONCRETE ENCASMENT AT THE BUILDING FOUNDATION. CONTINUE CONDUIT TO LEVEL B MDF ROOM FOR TERMINATION. REFER TO DETAIL T6002.
- ALL CONDUITS ROUTED BELOW THE BUILDING, PAVED SURFACES SUCH AS ENTRY/EXIT DRIVEWAYS, ROADWAYS AND SIDEWALKS SHALL BE CONCRETE ENCASED.
- CONCRETE ENCASE CONDUIT DUCT BANKS WITHIN 8'-0" OF THE BUILDING FOUNDATIONS.
- ALL CONDUIT DUCT BANKS SHALL BE LONG RADIUS SWEEPS AND CONSIST OF SCHEDULE 40 PVC CONDUIT CONDUIT BENDS TURNING INTO THE BUILDING FOR TERMINATIONS SHALL BE CONCRETE ENCASED.
- ALL EXISTING CAMERAS AND ASSOCIATED EQUIPMENT SHALL BE RETURNED TO OWNER.
- ADD ALTERNATE NO. 4:** REFER TO DETAIL 6/T620 FOR HYBRID FIBER/COPPER REQUIREMENT FOR SITE CAMERAS.

TECHNOLOGY KEY NOTES:

- EXISTING UTILITY POLE
- EXISTING OVERHEAD TELECOMMUNICATION LINE SERVING FRANCIS MYERS BUILDING
- LOCATION OF LEVEL B MDF ROOM
- ADD ALTERNATE NO. 1:** PROVIDE 18" X 18" X 18" SECURITY HAND HOLE DEDICATED TO SITE MOUNTED CAMERA S/MFO CABLING. REFER TO DETAIL 1/T.600.
- ADD ALTERNATE NO. 1:** PROVIDE (1) 4" CONDUIT FOR SITE MOUNTED CAMERA CABLING FROM MDF ROOM TO SECURITY HAND HOLE AT BUILDING EXTERIOR.
- ADD ALTERNATE NO. 1:** PROVIDE (1) 2" CONDUIT FOR SITE MOUNTED SECURITY HAND HOLE TO POLE MOUNTED VIDEO SURVEILLANCE ENCLOSURE.
- ADD ALTERNATE NO. 1:** EXISTING SITE LIGHTING POLE
- PROVIDE 18" X 18" X 18" SECURITY HAND HOLE DEDICATED TO SITE MOUNTED CAMERA S/MFO CABLING. REFER TO DETAIL 1/T.600.
- PROVIDE (1) 4" CONDUIT FOR SITE MOUNTED CAMERA CABLING BETWEEN SECURITY HAND HOLES.
- PROVIDE (1) 2" CONDUIT FROM ADJACENT SECURITY HAND HOLE TO POLE MOUNTED VIDEO SURVEILLANCE ENCLOSURE.

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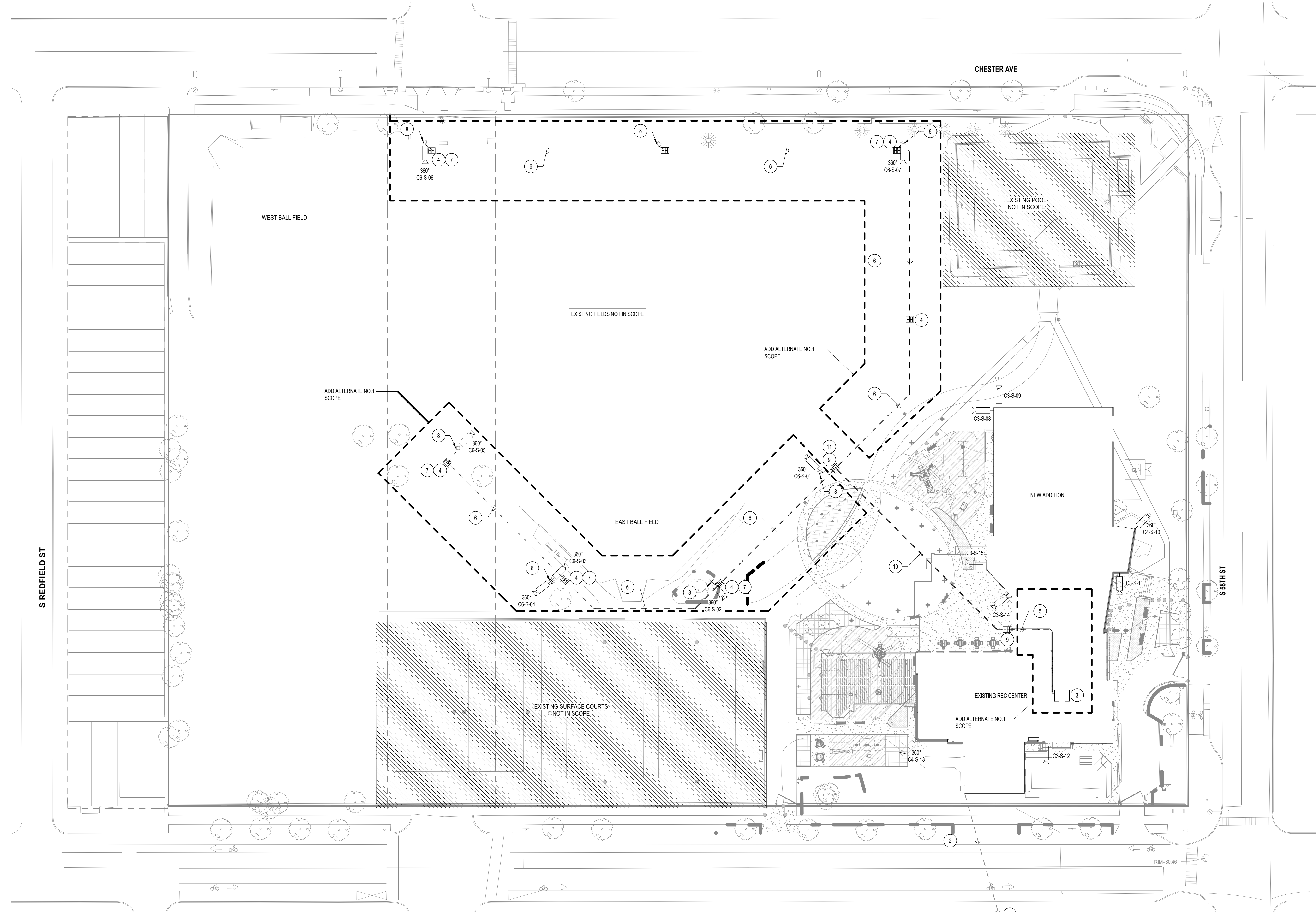
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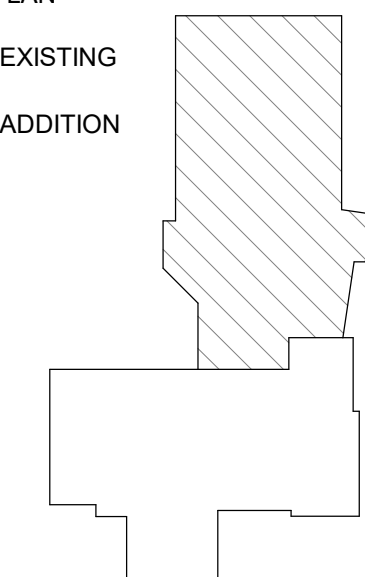
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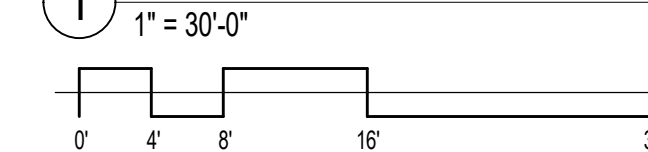
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KEY PLAN
 [Symbol] EXISTING
 [Symbol] ADDITION



1 TECHNOLOGY SITE PLAN
 1" = 30'-0"



DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave
 Philadelphia, PA 19143

PROJECT #:	2020
SCALE:	1" = 30'-0"
FORMAT:	30" X 42"
DRAWN:	GD
CHECKED:	SS
DATE:	4/7/2023

SHEET NAME:
TECHNOLOGY SITE PLAN

SHEET NUMBER:
T100

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



TECHNOLOGY GENERAL NOTES:

- ROUTE VOICE AND DATA CABLING ON THIS FLOOR TO DEDICATED VOICE AND DATA PATCH PANELS IN LEVEL B MDF ROOM.
- ROUTE ALL SURVEILLANCE CAMERA CABLING ON THIS FLOOR TO DEDICATED SURVEILLANCE CAMERA PATCH PANELS IN LEVEL B MDF ROOM. CONTRACTOR SHALL INSTALL ALL NECESSARY CONNECTIONS AT CAMERA AND PATCH PANEL INCLUDING ALL PATCH CORDS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- ROUTE ALL ACCESS CONTROL CABLING ON THIS FLOOR TO ACCESS CONTROL EQUIPMENT LOCATION IN LEVEL B MDF ROOM.
- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS OF DATA OUTLETS FOR DISPLAY MONITORS.
- REFER TO ARCHITECTURAL DRAWINGS FOR NOTATIONS ON RECESSED MOUNTED, SURFACE MOUNTED AND PEDESTAL MOUNTED CARD READER AND PUSH PLATE ACTUATORS.
- REFER TO SHEET T.500 FOR ACCESS CONTROL AND VIDEO SURVEILLANCE SCHEDULES.

TECHNOLOGY KEY NOTES:

- LOCATION OF EXISTING INCOMING SERVICE PROVIDER EQUIPMENT AND CABLING AND TELEPHONE SYSTEM. COORDINATE WITH SERVICE PROVIDER FOR RELOCATION OF EQUIPMENT TO NEW MDF ROOM IN BASEMENT LEVEL PRIOR TO DEMOLITION WORK.
- VOICE OUTLET (PHONE LINE) FOR FIRE ALARM CONTROL PANEL. COORDINATE FINAL LOCATION WITH FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN. REFER TO DETAIL 11T.600.
- VOICE (PHONE LINE) OUTLET DEDICATED TO ELEVATOR EMERGENCY TELEPHONE CONNECTIVITY. COORDINATE LOCATION OF ELEVATOR CONTROL CABINET AND CONDUIT PENETRATION WITH ELEVATOR CONTRACTOR PRIOR.

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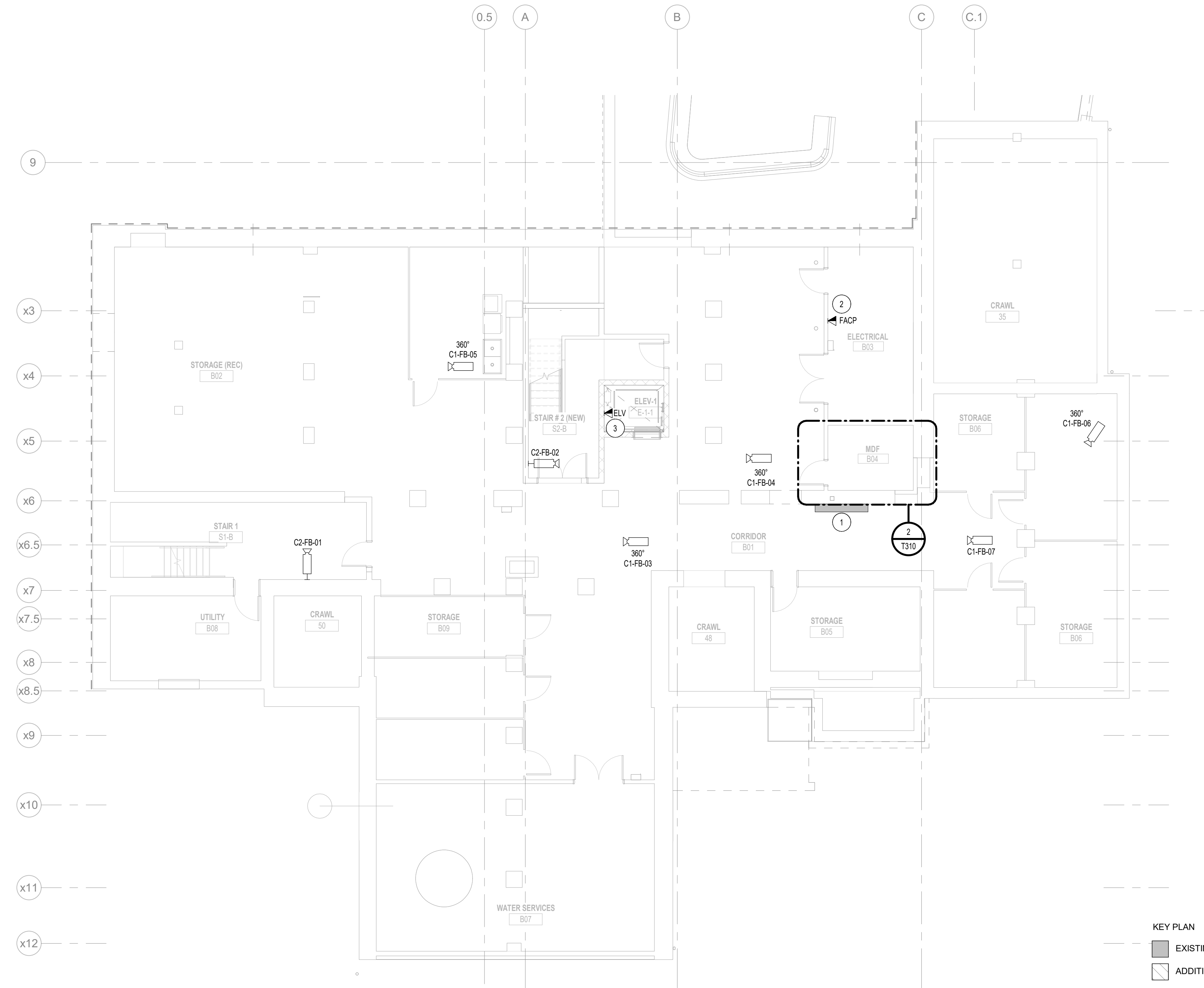
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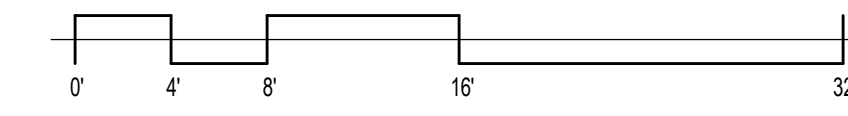
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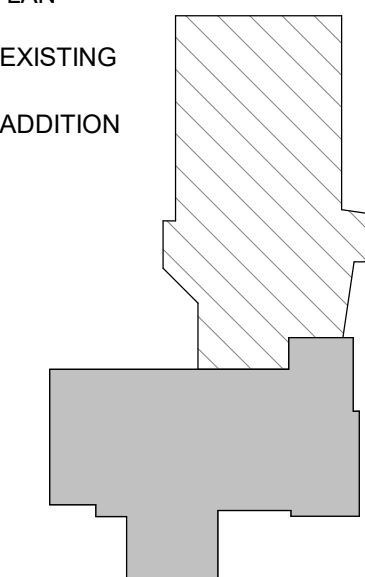
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1 LEVEL B RENOVATION - TECHNOLOGY PLAN
 1/8" = 1'-0"



KEY PLAN
 ■ EXISTING
 ▨ ADDITION



DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave
 Philadelphia, PA 19143

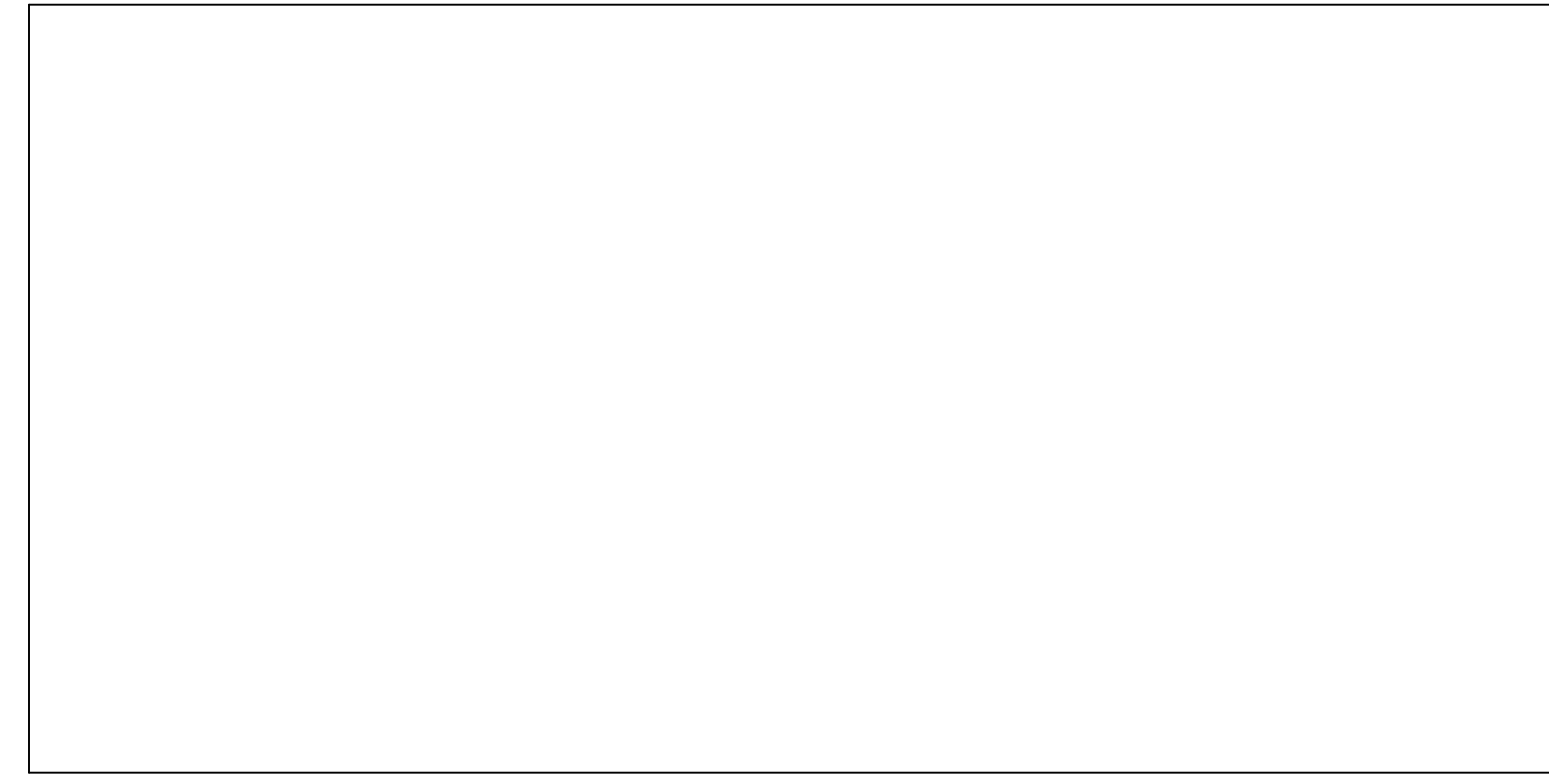
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FORMAT:	30" X 42"
DRAWN:	GD
CHECKED:	SS
DATE:	4/7/2023

SHEET NAME:
LEVEL B RENOVATION - TECHNOLOGY PLAN

SHEET NUMBER:
T110

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



TECHNOLOGY GENERAL NOTES:

- ROUTE VOICE AND DATA CABLING ON THIS FLOOR TO DEDICATED VOICE AND DATA PATCH PANELS IN LEVEL B MDF ROOM.
- ROUTE ALL SURVEILLANCE CAMERA CABLING ON THIS FLOOR TO DEDICATED SURVEILLANCE CAMERA PATCH PANELS IN LEVEL B MDF ROOM. CONTRACTOR SHALL INSTALL ALL NECESSARY CONNECTIONS AT CAMERA AND PATCH PANEL INCLUDING ALL PATCH CORDS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- ROUTE ALL ACCESS CONTROL AND INTRUSION DETECTION SYSTEM CABLING ON THIS FLOOR TO ACCESS CONTROL AND INTRUSION DETECTION SYSTEM PANELS IN LEVEL B MDF ROOM.
- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS OF DATA OUTLETS FOR DISPLAY MONITORS.
- REFER TO ARCHITECTURAL DRAWINGS FOR NOTATIONS ON RECESSED MOUNTED, SURFACE MOUNTED AND PEDESTAL MOUNTED CARD READER AND PUSH PLATE ACTUATORS.
- REFER TO SHEET T-200 FOR ACCESS CONTROL AND VIDEO SURVEILLANCE SCHEDULES.

TECHNOLOGY KEY NOTES: #

- COORDINATE WITH ARCHITECT AND FURNITURE FOR EXACT LOCATIONS PRIOR TO ROUGH-INS.

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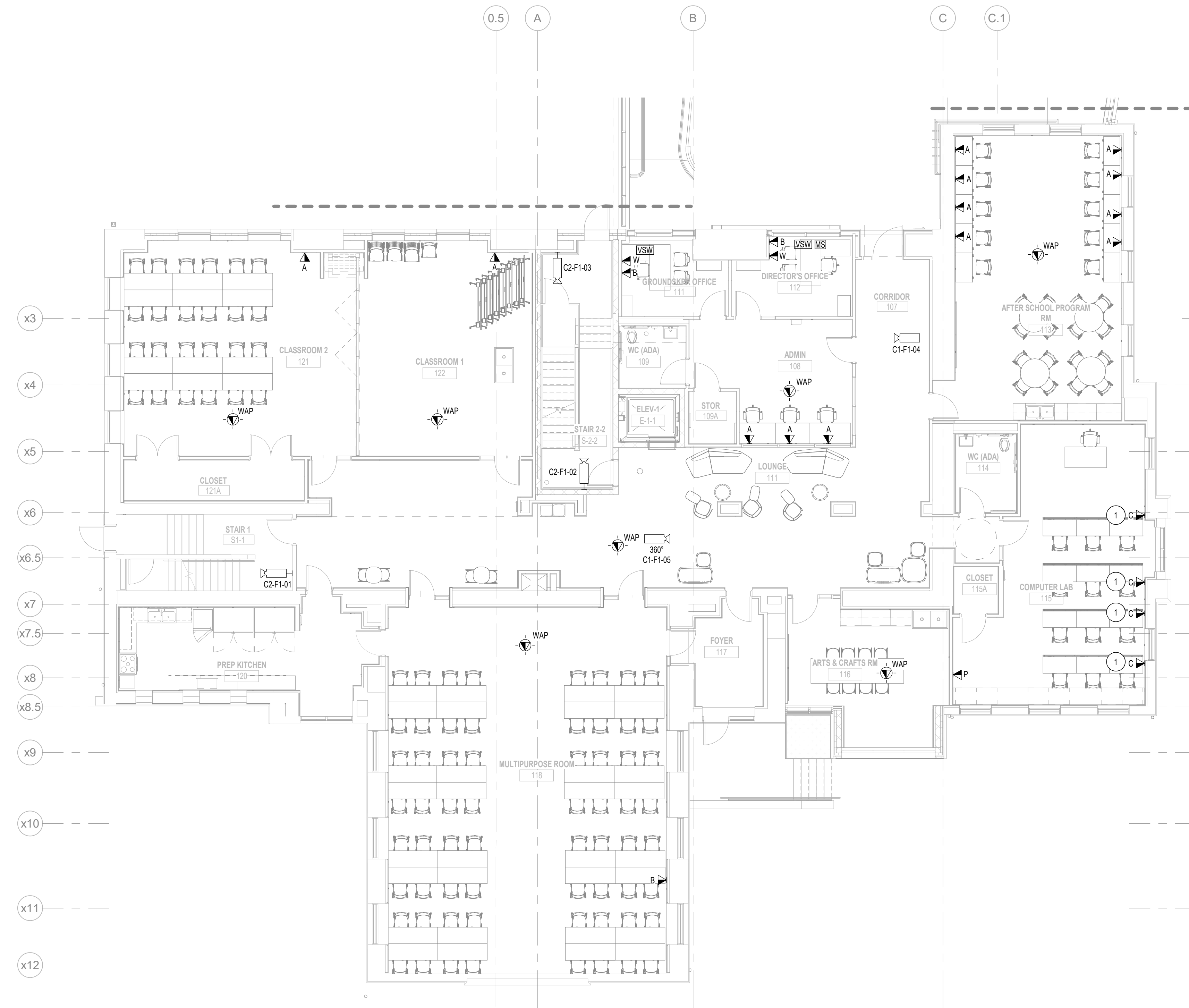
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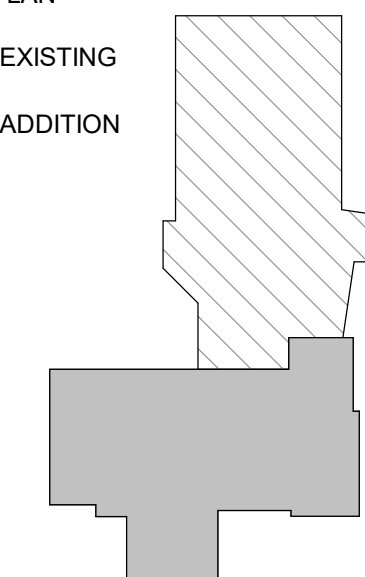
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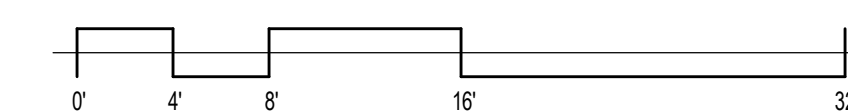
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KEY PLAN
 ■ EXISTING
 ▨ ADDITION



1 LEVEL 1 RENOVATION - TECHNOLOGY PLAN
 1/8" = 1'-0"



DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave
 Philadelphia, PA 19143

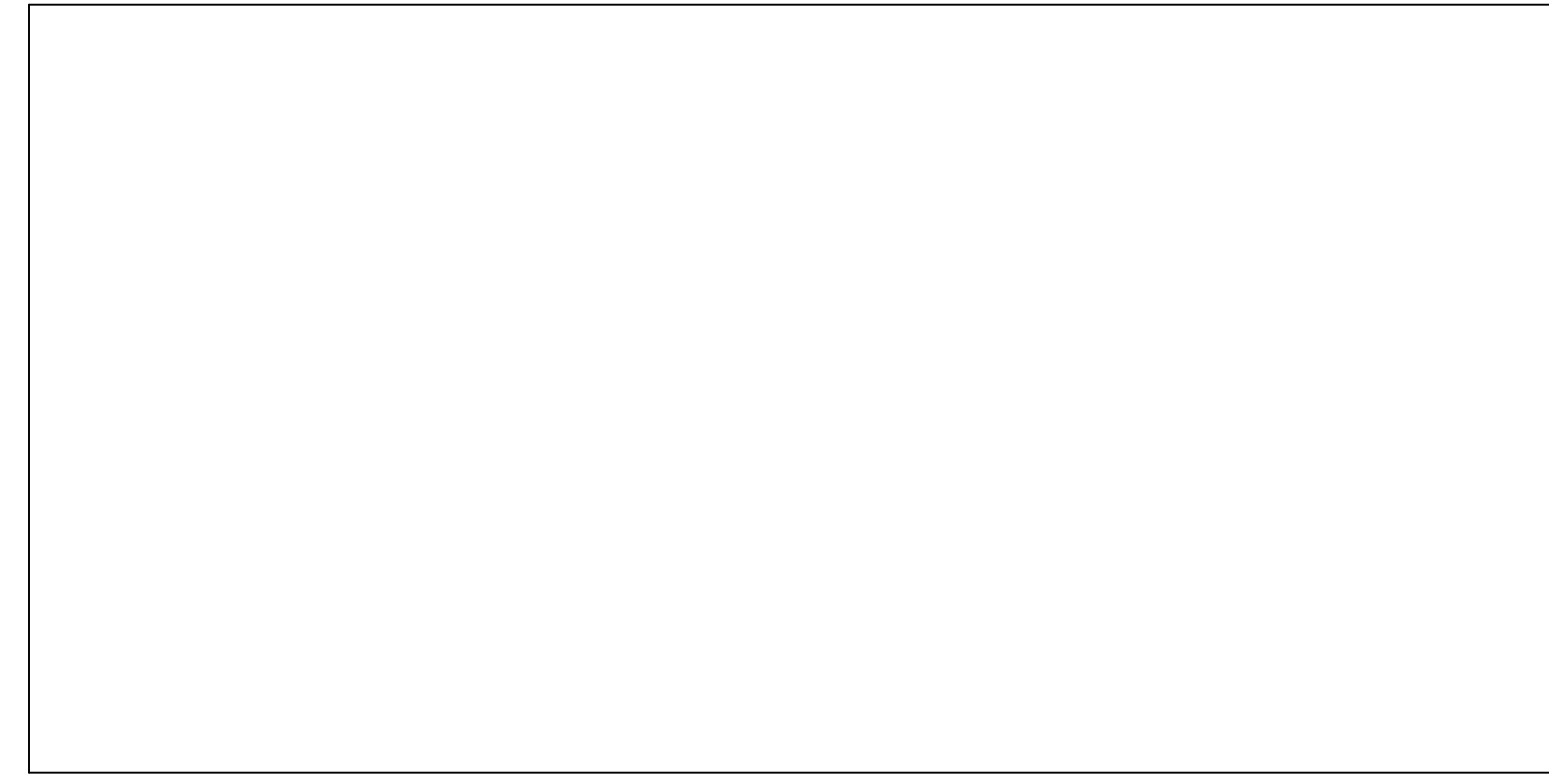
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FORMAT:	30" X 42"
DRAWN:	GD
CHECKED:	SS
DATE:	4/7/2023

SHEET NAME:
LEVEL 1 RENOVATION - TECHNOLOGY PLAN

SHEET NUMBER:
T111 A

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



TECHNOLOGY GENERAL NOTES:

1. ROUTE VOICE AND DATA CABLING ON FIRST FLOOR TO DEDICATED VOICE AND DATA PATCH PANELS IN LEVEL B MDF ROOM.
2. ROUTE ALL SURVEILLANCE CAMERA CABLING ON THIS FLOOR TO DEDICATED SURVEILLANCE CAMERA PATCH PANELS IN LEVEL B MDF ROOM. CONTRACTOR SHALL INSTALL ALL NECESSARY CONNECTIONS AT CAMERA AND PATCH PANEL INCLUDING ALL PATCH CORDS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
3. ROUTE ALL ACCESS CONTROL CABLING ON THIS FLOOR TO ACCESS CONTROL IN LEVEL B MDF ROOM.
4. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS OF DATA OUTLETS FOR DISPLAY MONITORS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR NOTATIONS ON RECESSED MOUNTED, SURFACE MOUNTED AND PEDESTAL MOUNTED PUSH PLATE ACTUATORS.
6. REFER TO SHEET T.500 FOR VIDEO SURVEILLANCE SCHEDULE.

TECHNOLOGY KEY NOTES: #

1. PROVIDE VIDEO DOOR INTERCOM STATION RECESSED MOUNTED. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT.

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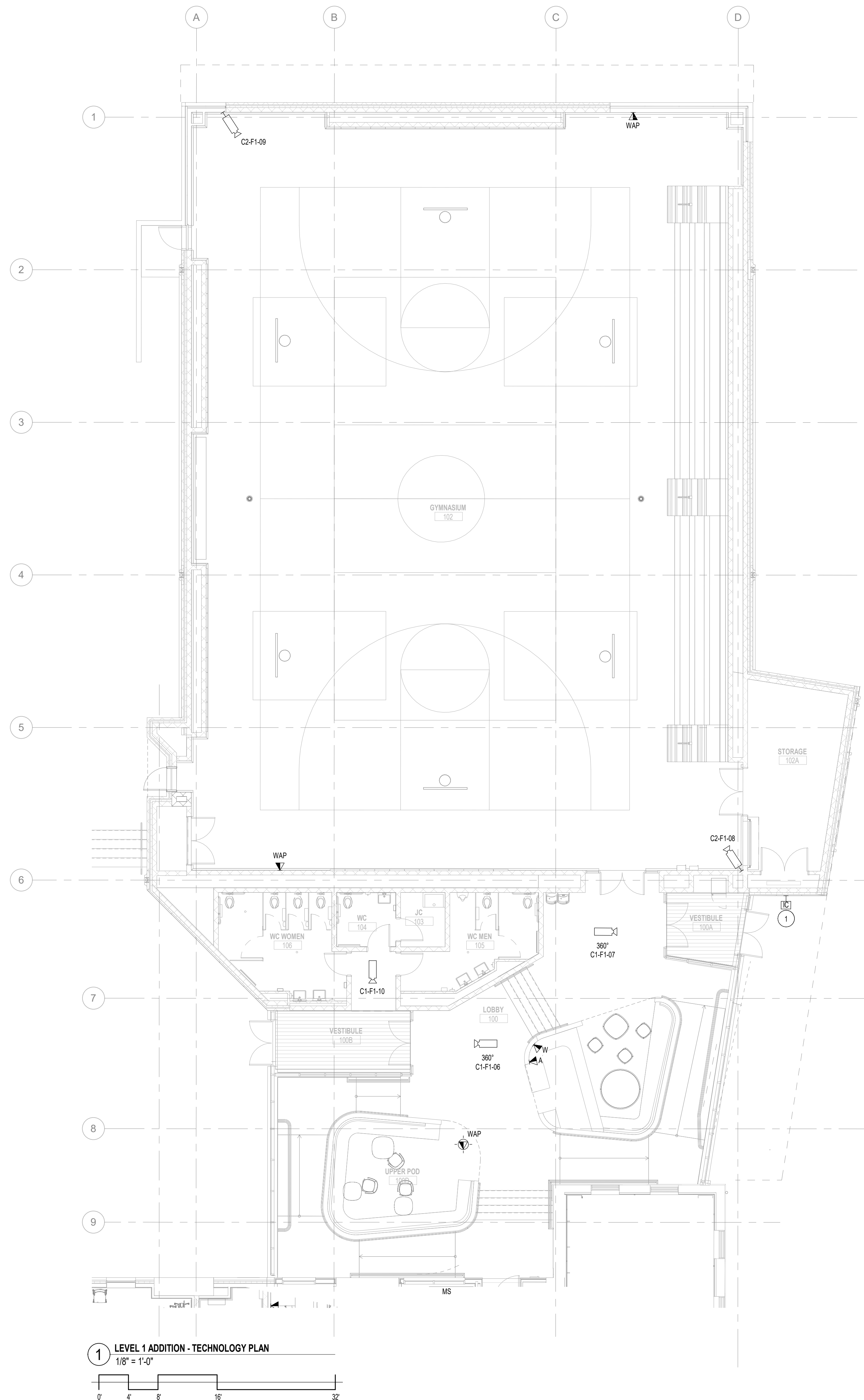
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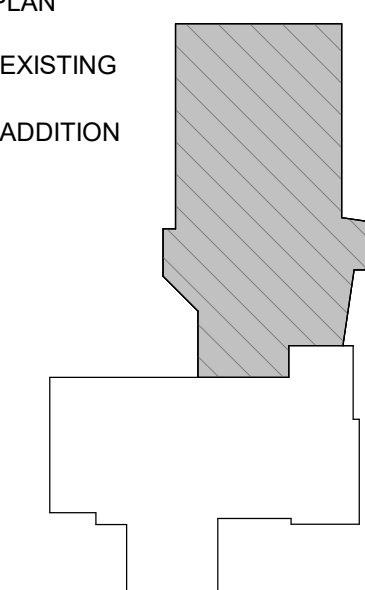
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1 LEVEL 1 ADDITION - TECHNOLOGY PLAN
 1/8" = 1'-0"

KEY PLAN
 [Symbol] EXISTING
 [Symbol] ADDITION



DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

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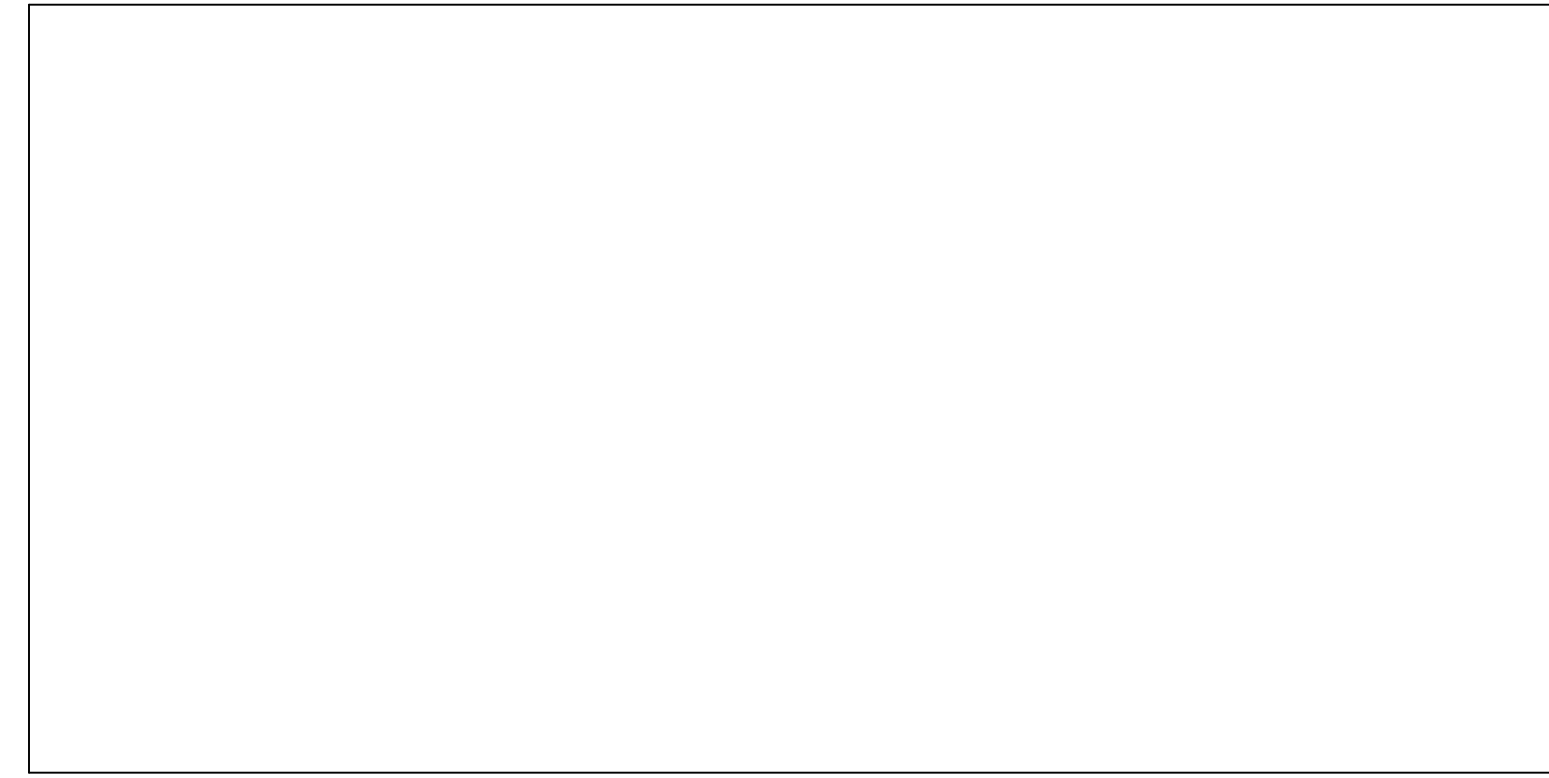
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FORMAT:	30" X 42"
DRAWN:	GD
CHECKED:	SS
DATE:	4/7/2023

SHEET NAME:
LEVEL 1 ADDITION - TECHNOLOGY PLAN

SHEET NUMBER:
T111 B

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



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DATE:	DESCRIPTION:

**FRANCIS J. MYERS
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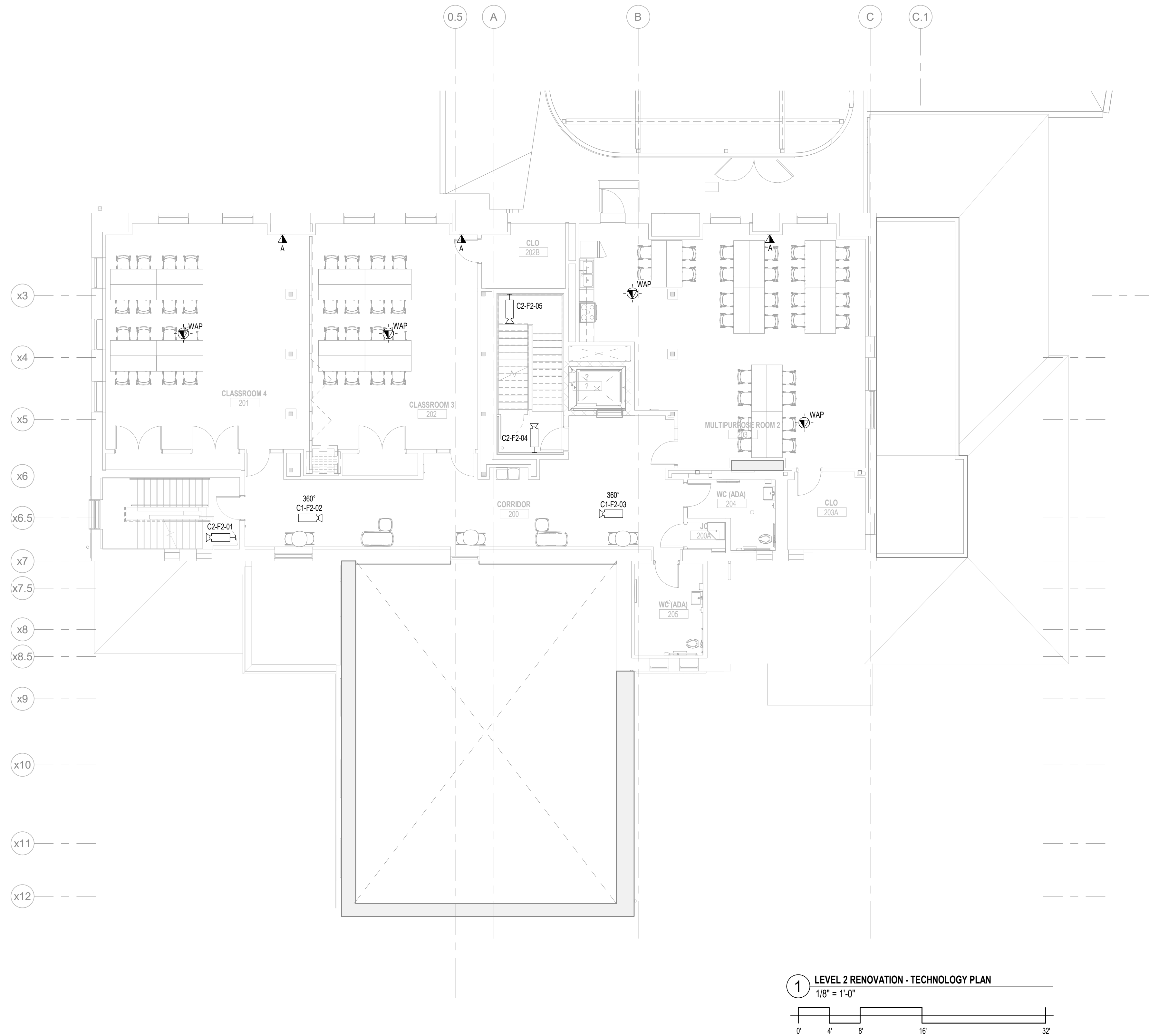
5800 Chester Ave
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PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	GD
CHECKED:	SS
DATE:	4/7/2023

SHEET NAME:
**LEVEL 2
 RENOVATION -
 TECHNOLOGY PLAN**

SHEET NUMBER:
T112 A

PROJECT PHASE:
CONSTRUCTION DOCUMENTS



APPROVAL STAMP AREA



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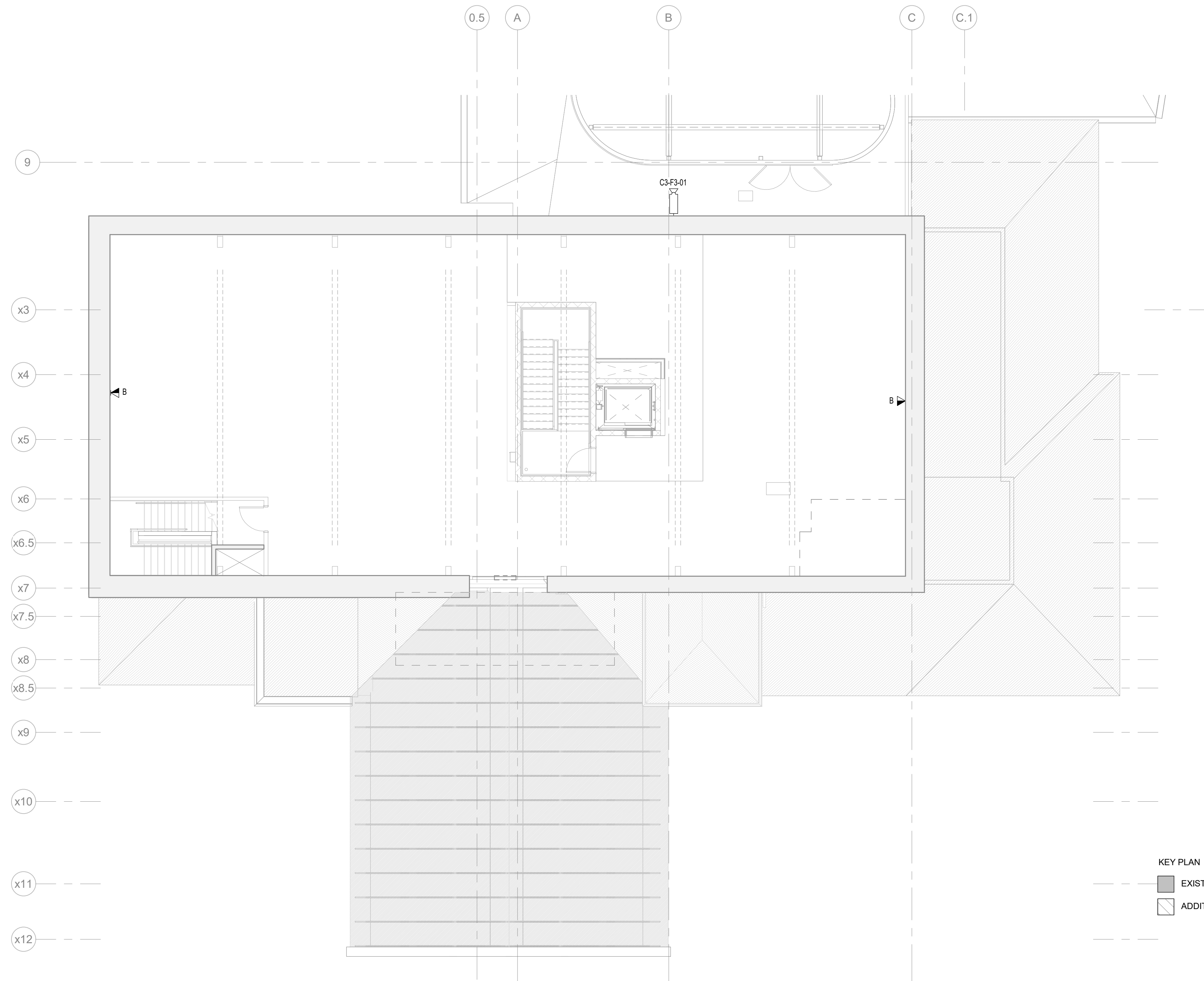
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DATE:	DESCRIPTION:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave
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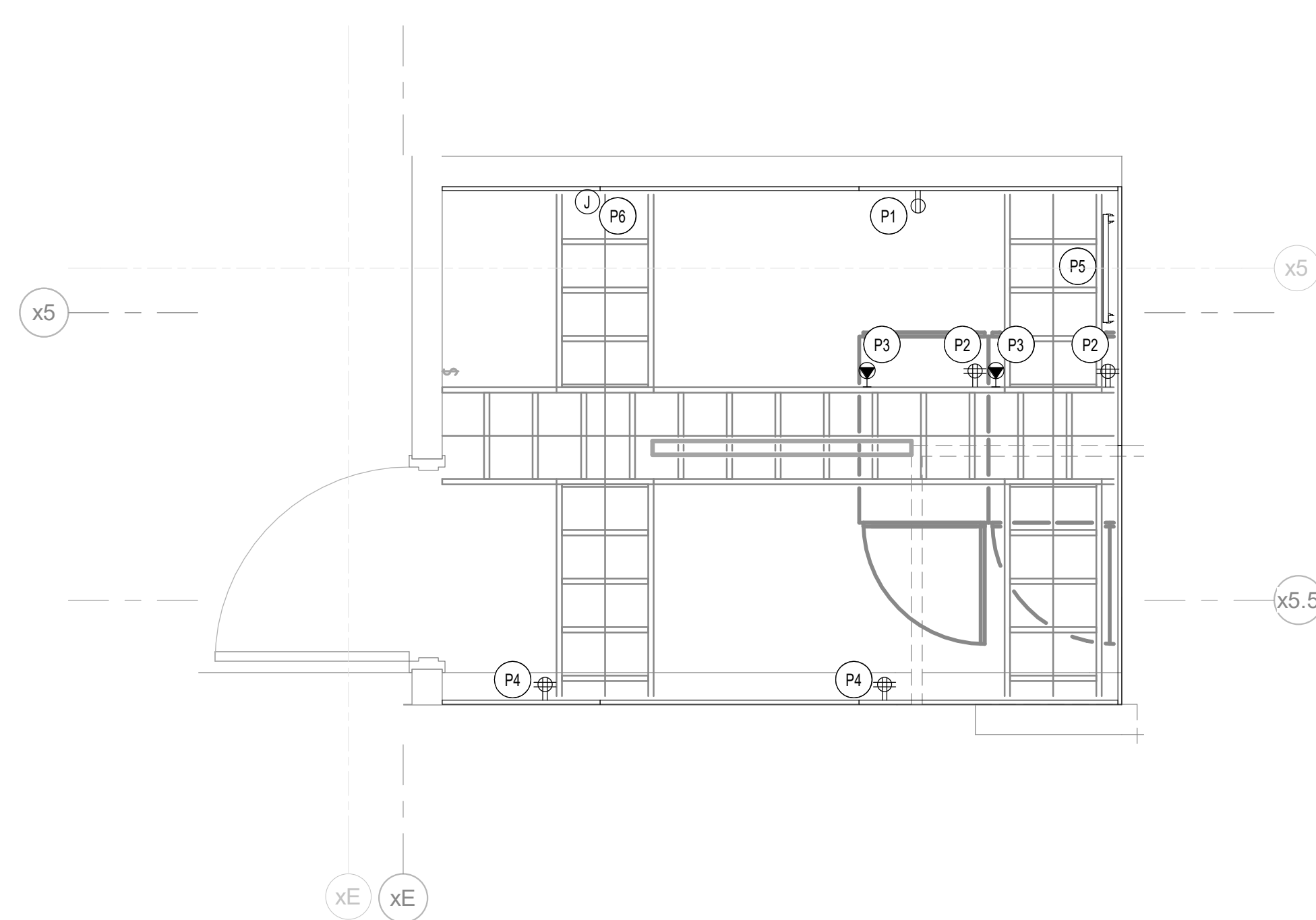
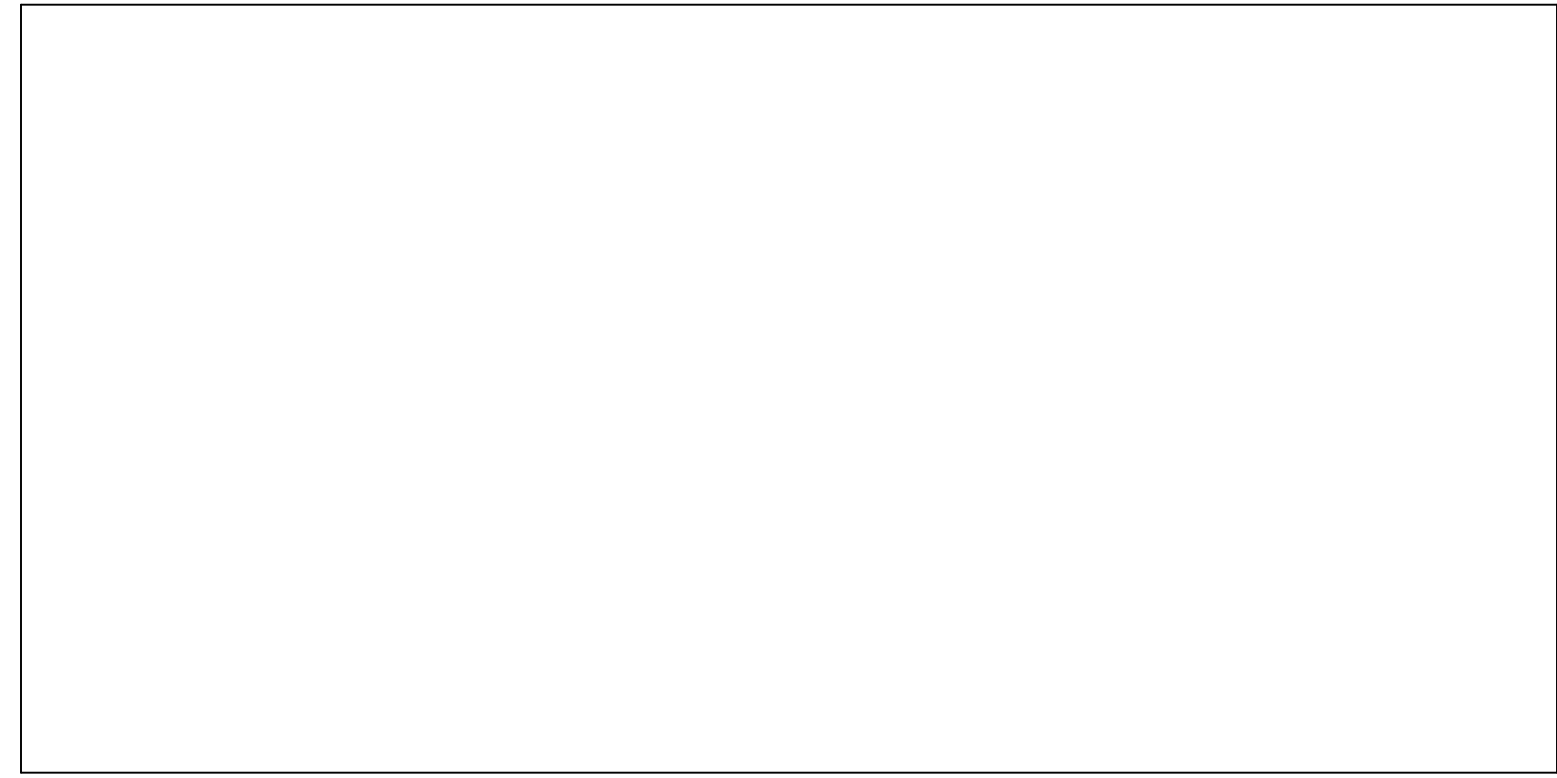
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FORMAT:	30" X 42"
DRAWN:	GD
CHECKED:	SS
DATE:	4/7/2023

SHEET NAME:
LEVEL 3 RENOVATION - TECHNOLOGY PLAN

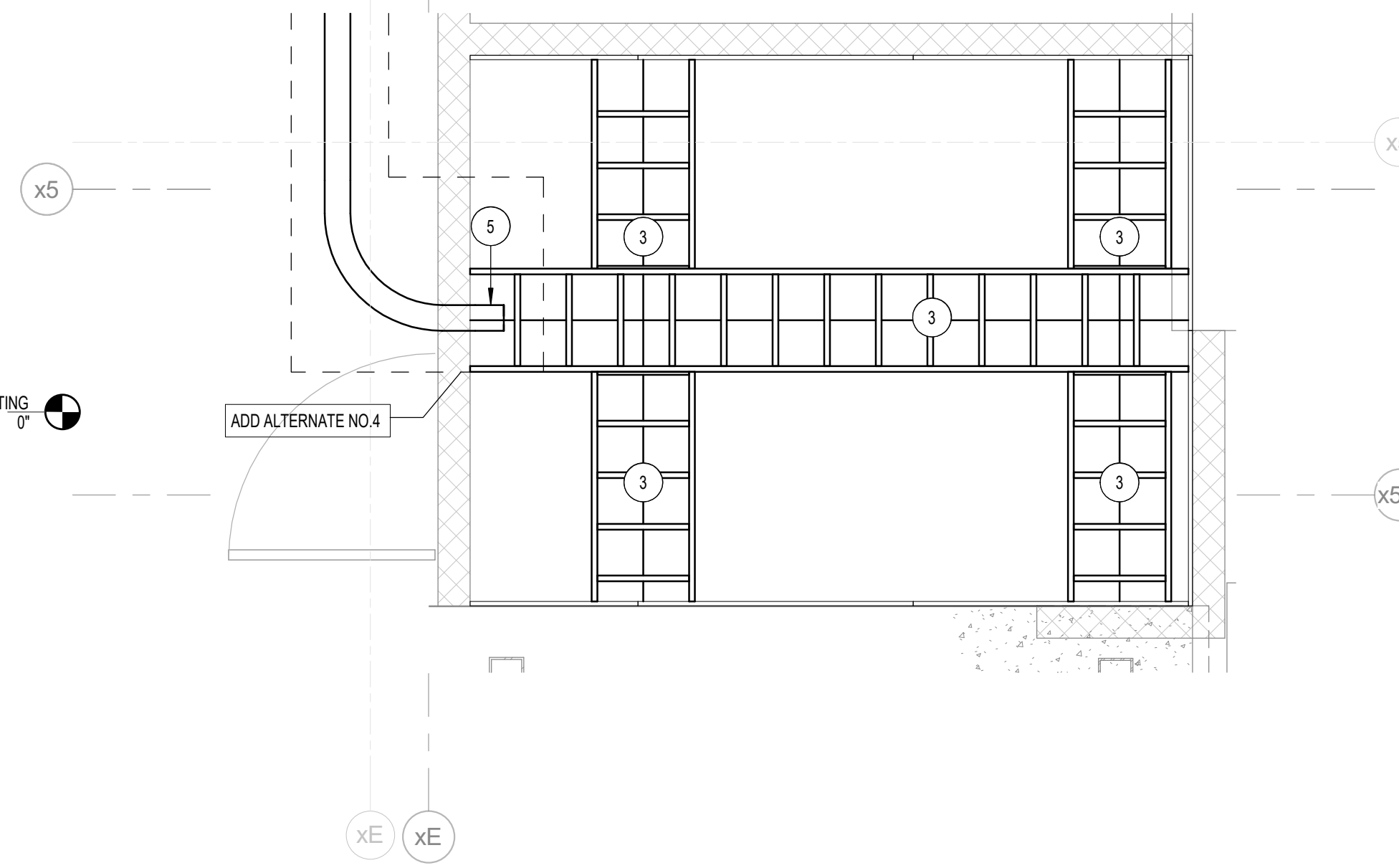
SHEET NUMBER:
T113 A

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

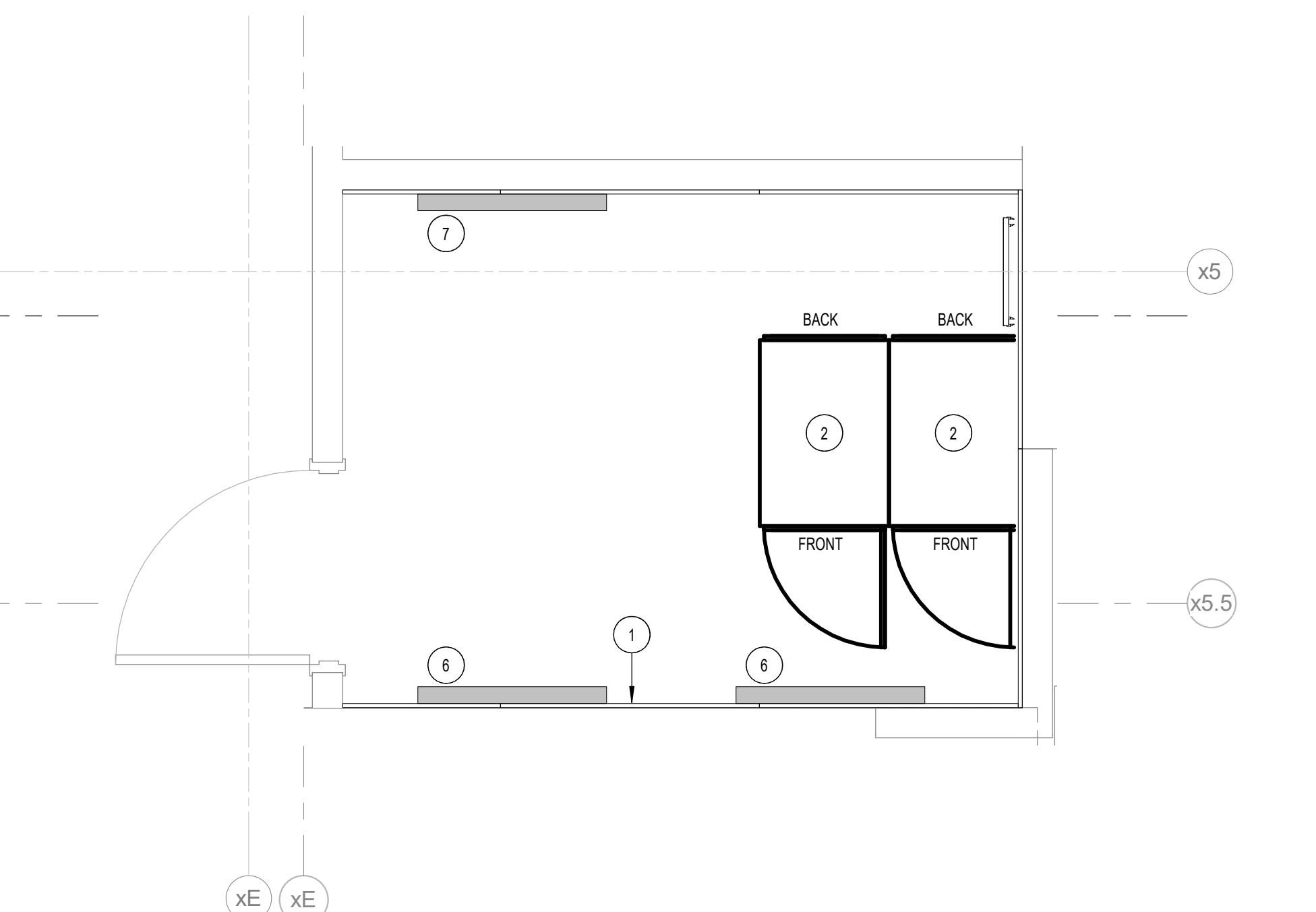
APPROVAL STAMP AREA



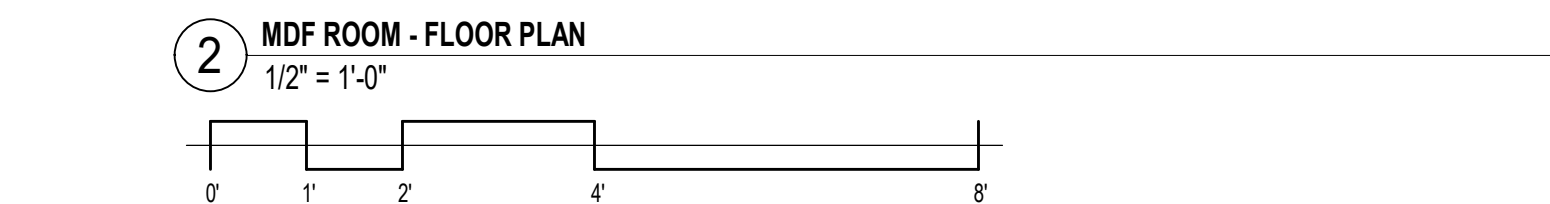
8 MDF ROOM - ELECTRICAL COORDINATION PLAN
NTS



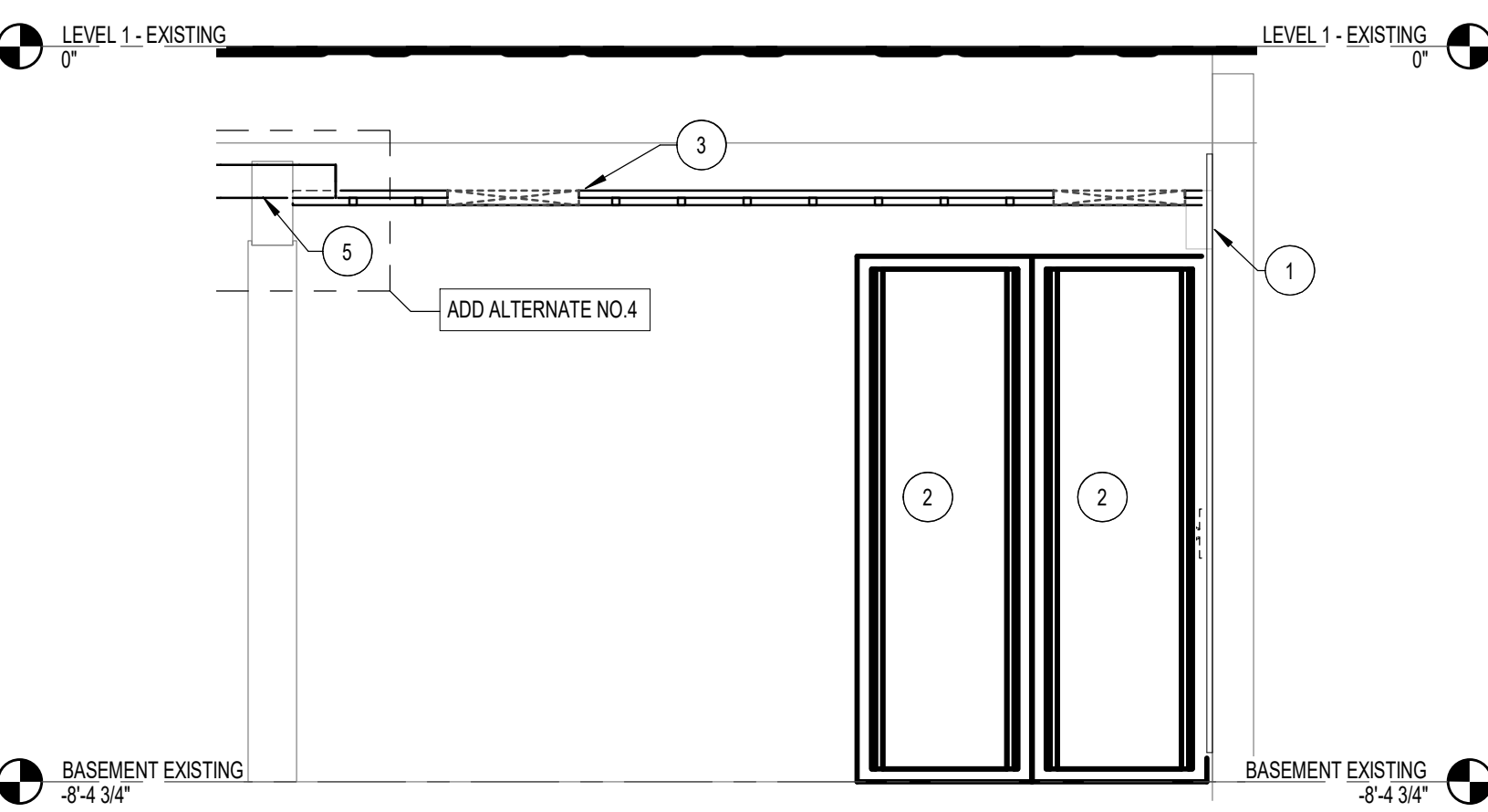
3 MDF ROOM - RCP
1/2" = 1'-0"



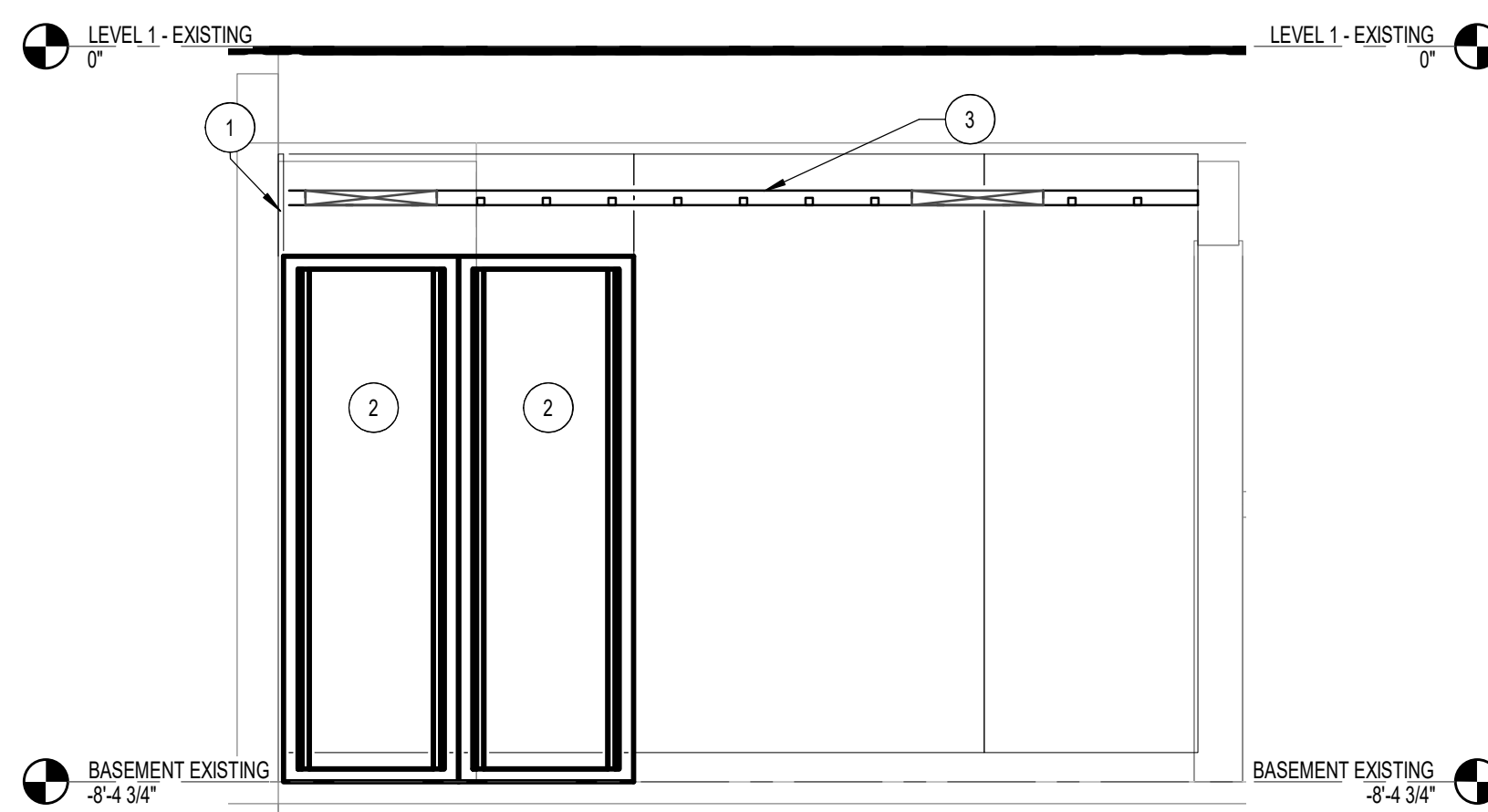
1 MDF ROOM - 3D
NTS



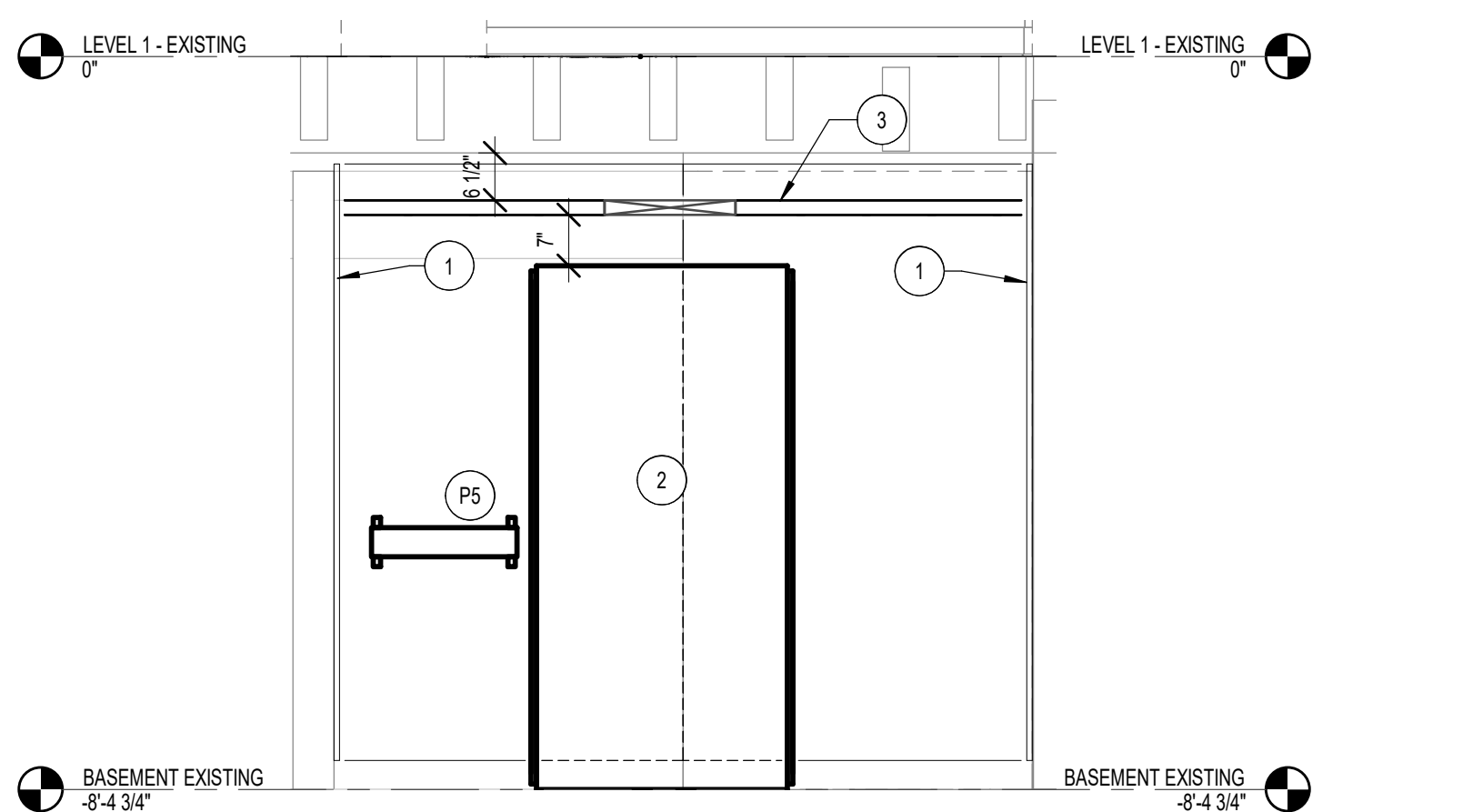
2 MDF ROOM - FLOOR PLAN
1/2" = 1'-0"



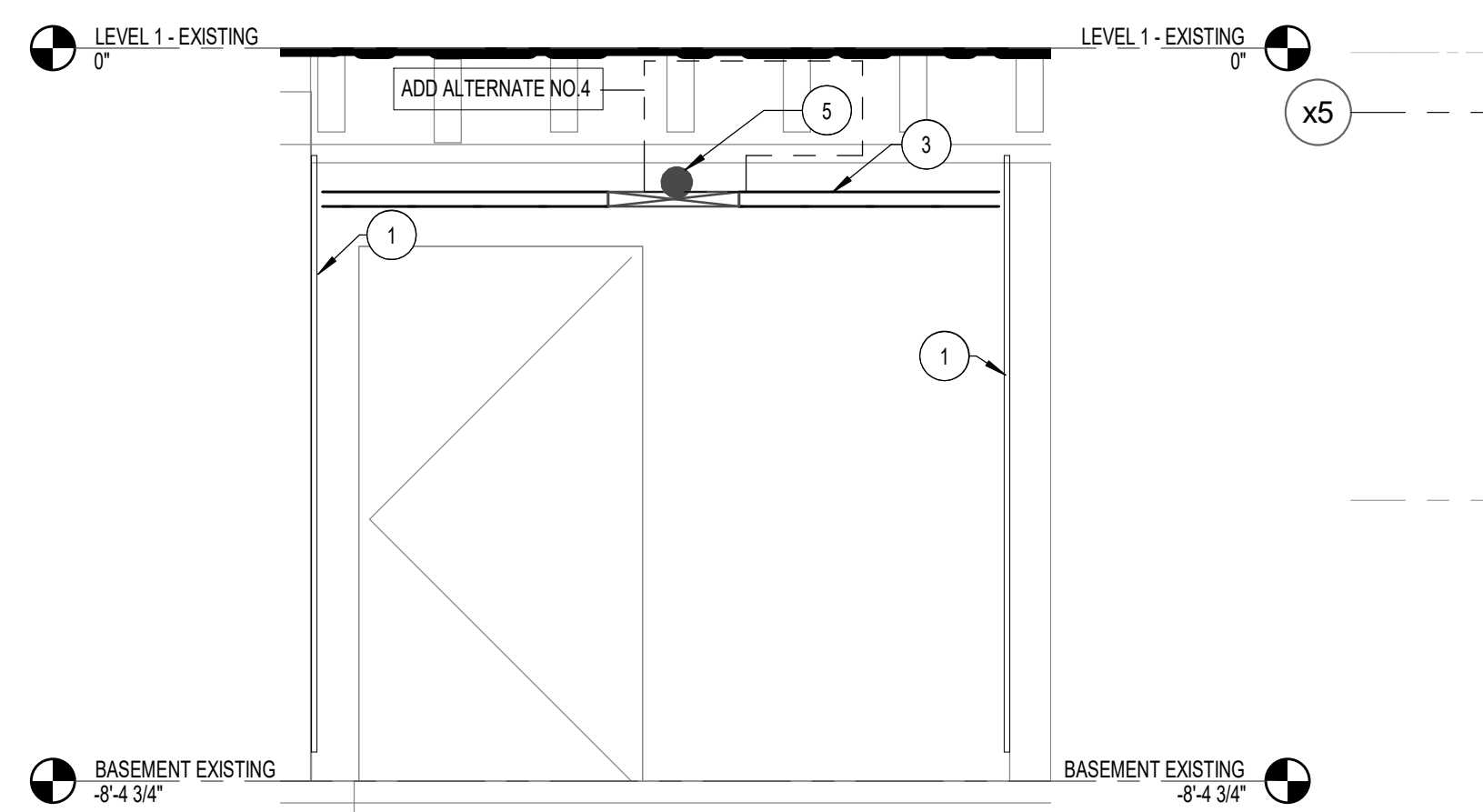
7 MDF ROOM - NORTH ELEVATION
1/2" = 1'-0"



5 MDF ROOM - SOUTH ELEVATION
1/2" = 1'-0"



6 MDF ROOM - EAST ELEVATION
1/2" = 1'-0"



4 MDF ROOM - WEST ELEVATION
1/2" = 1'-0"

TECHNOLOGY GENERAL NOTES

- REFER TO ELECTRICAL DRAWINGS FOR FINAL ELECTRICAL LAYOUT AND REQUIREMENTS.
- MDF ROOM SHALL SERVE ALL TELECOMMUNICATIONS, SURVEILLANCE AND ACCESS CONTROL CABLING THROUGHOUT THE BUILDING.
- MOUNT ALL LADDER TRAY AT 7'-6" UNLESS NOTED OTHERWISE.
- PROVIDE MOUNTING HARDWARE AS NECESSARY TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LADDER TRAY.
- PROVIDE VERTICALLY MOUNTED CABLE SUPPORT AS NECESSARY TO VERTICALLY ROUTE CABLING. REFER TO DETAIL SHEET FOR CABLE LADDER TRAY MOUNTING AND INSTALLATION DETAIL.

TECHNOLOGY SHEET NOTES

- PLYWOOD, 3/4" FIRE RETARDANT, 610" H x 4" W (OR SMALLER TO FIT), LOWER EDGE @ 4" A.F.F., TYPICAL.
- 72" LOCKABLE, FLOOR MOUNTED CABINET
- CABLE LADDER TRAY, 18" WIDE, 2" DEEP, BLACK POWDER COAT FINISH
- NOT USED
- ADD ALTERNATE NO. 4: (1) 1" CONDUIT TO EXTERIOR HANDHOLE DEDICATED TO SITE MOUNTED CAMERAS
- SPACE DEDICATED TO INCOMING TELECOMMUNICATIONS UTILITY SERVICE PROVIDER EQUIPMENT.
- SPACE DEDICATED FOR INTERCOM ACCESS CONTROL EQUIPMENT.

ELECTRICAL POWER COORDINATION NOTES

- CONVENIENCE DUPLEX, TYPICAL.
- DEDICATED 20A QUAD RECEPTACLE ON 120V CIRCUIT MOUNTED TO CABLE TRAY ABOVE RACK.
- DEDICATED 208V, 30A CIRCUIT WITH TWISTLOCK RECEPTACLE MOUNTED TO CABLE TRAY ABOVE RACK.
- DEDICATED 20A QUAD RECEPTACLE SERVING INCOMING SERVICE PROVIDER EQUIPMENT.
- TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
- DEDICATED 20A JUNCTION BOX WITH 120V CIRCUIT FOR INTERCOM ACCESS CONTROL POWER SUPPLY.

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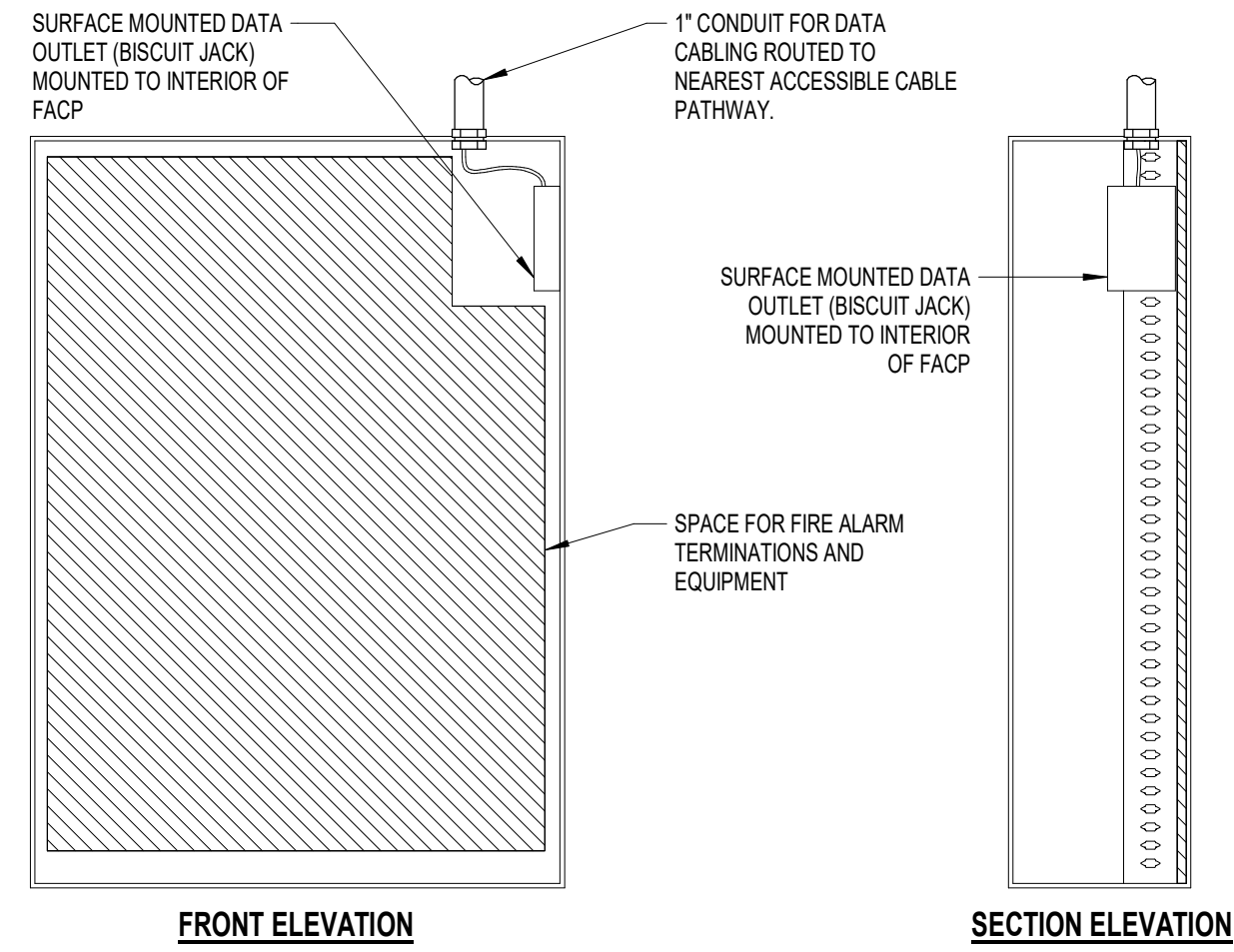
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SHEET NAME:
ENLARGED TECHNOLOGY AXONOMETRICS

SHEET NUMBER:
T310

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

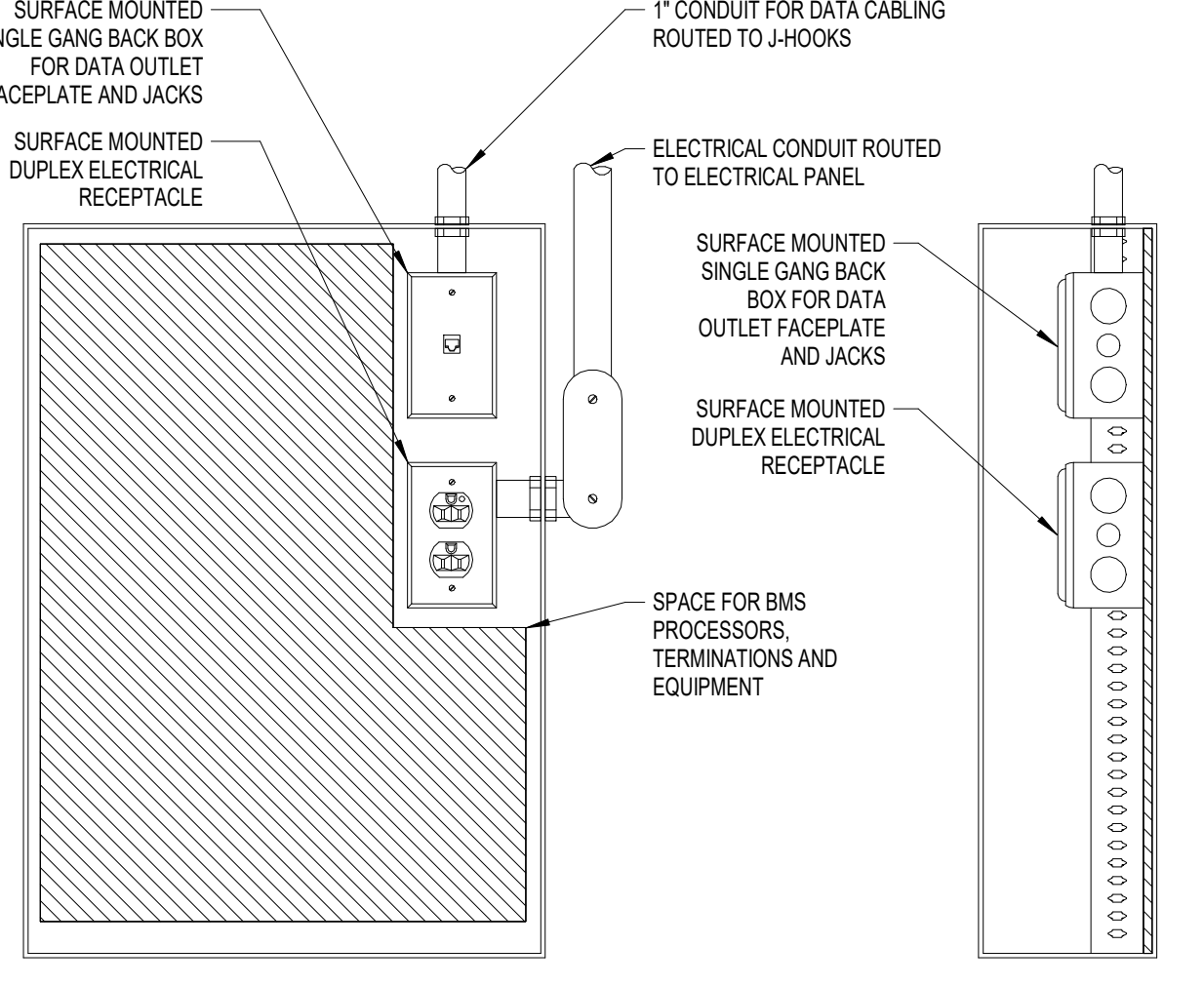
APPROVAL STAMP AREA



DETAIL NOTES:
 1. COORDINATE THE EXACT LOCATION OF THE DATA OUTLET AND ELECTRICAL RECEPTACLE WITH THE FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN.
 2. REFER TO FIRE ALARM PLANS AND DETAILS FOR THE EXACT PANEL AND EQUIPMENT CONFIGURATION AND DIMENSIONS.

SYMBOL DESIGNATION:
 (1) 4-PAIR CABLE
 FACP

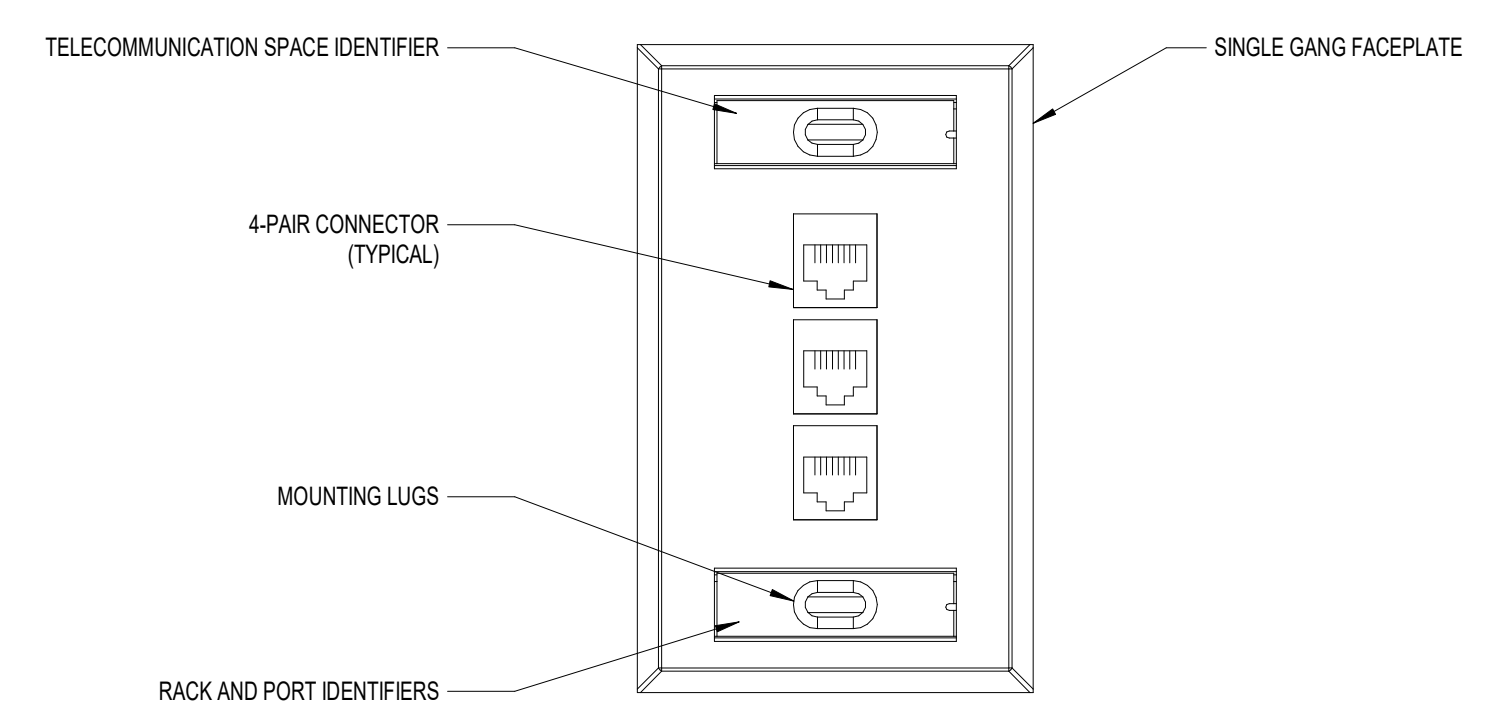
11 FIRE ALARM CONTROL PANEL OUTLET DETAIL NTS



DETAIL NOTES:
 1. COORDINATE THE EXACT LOCATION OF THE DATA OUTLET AND ELECTRICAL RECEPTACLE WITH THE BAS CONTRACTOR PRIOR TO ROUGH-IN.
 2. REFER TO BAS PLANS AND DETAILS FOR THE EXACT PANEL AND EQUIPMENT CONFIGURATION AND DIMENSIONS.

SYMBOL DESIGNATION:
 (1) 4-PAIR CABLE
 BMS

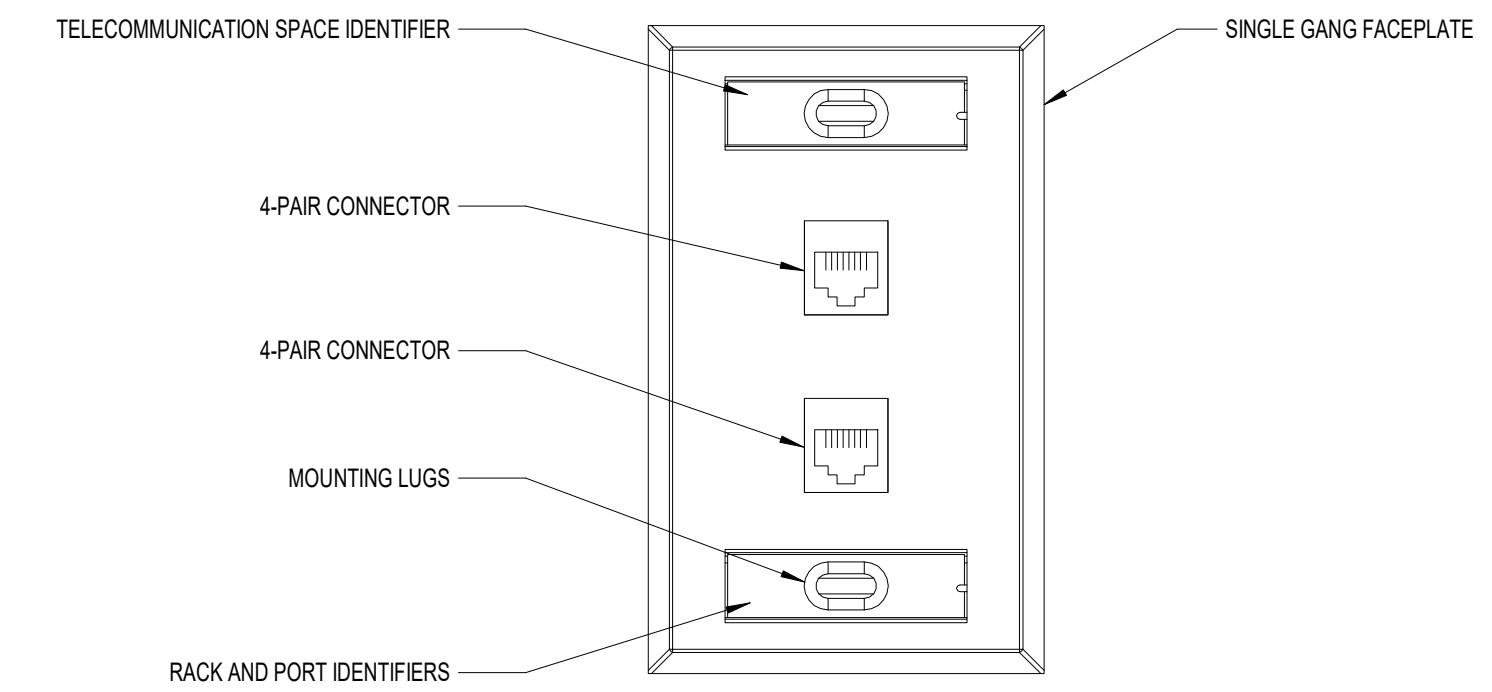
10 BAS PANEL DATA OUTLET & ELECTRICAL RECEPTACLE MOUNTING DETAIL NTS



SYMBOL DESIGNATION:
 (3) 4-PAIR CABLES

OUTLET NOTES:
 1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
 2. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.

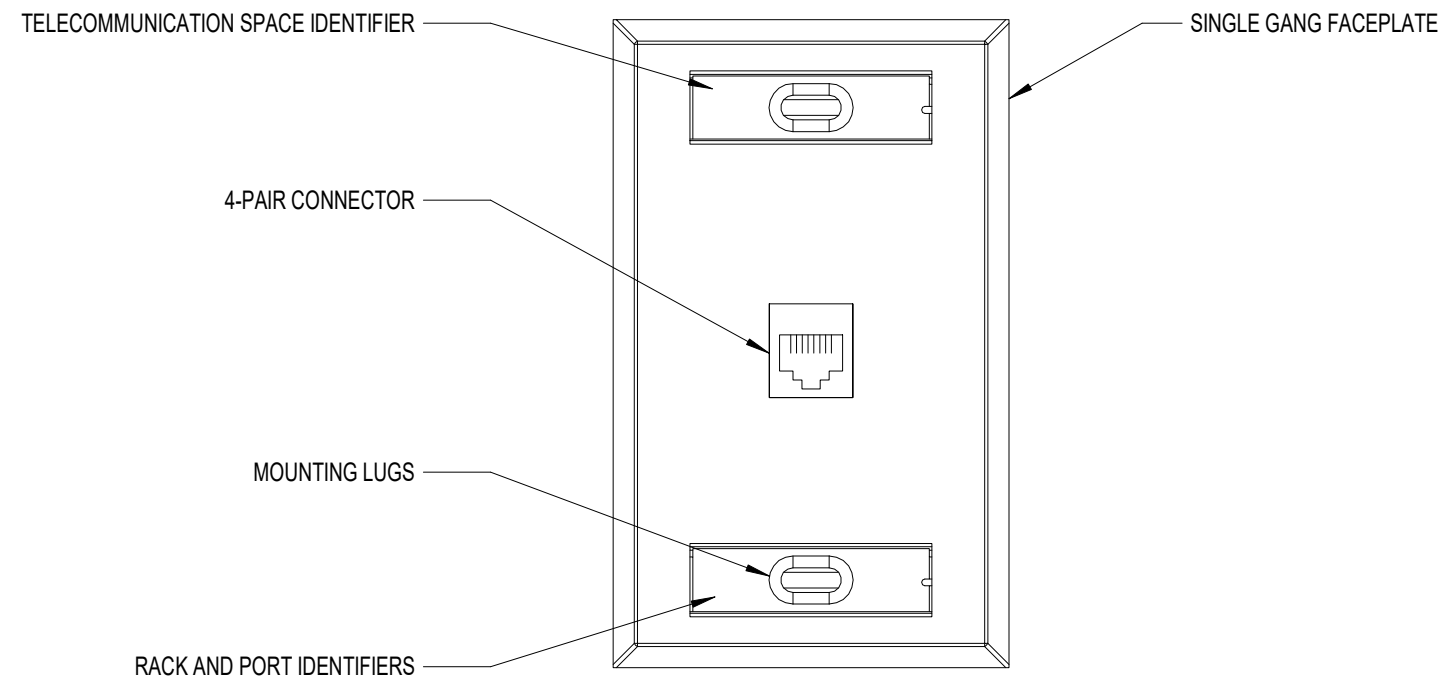
9 3 PORT DATA FACEPLATE DETAIL NTS



SYMBOL DESIGNATION:
 (2) 4-PAIR CABLES

OUTLET NOTES:
 1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
 2. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.

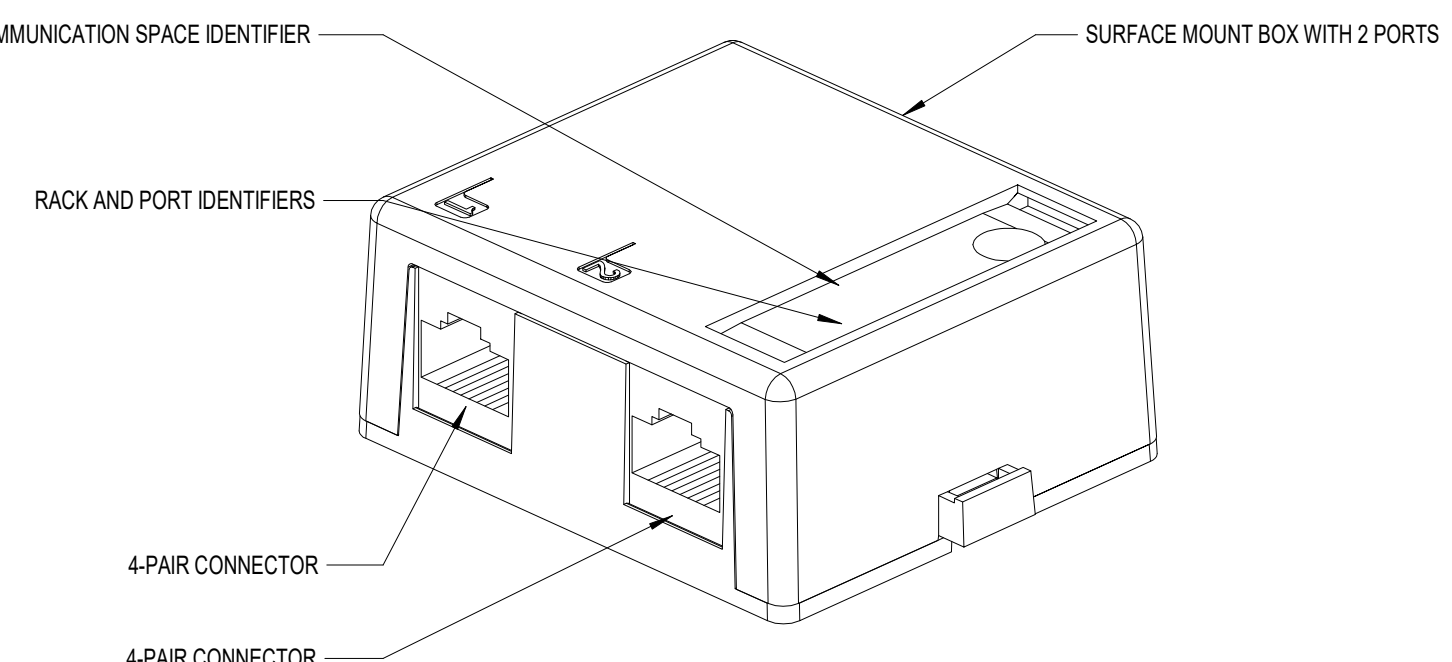
8 2 PORT DATA FACEPLATE DETAIL NTS



SYMBOL DESIGNATION:
 (1) 4-PAIR CABLE
 A/W / ELV / BAS

OUTLET NOTES:
 1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
 2. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.

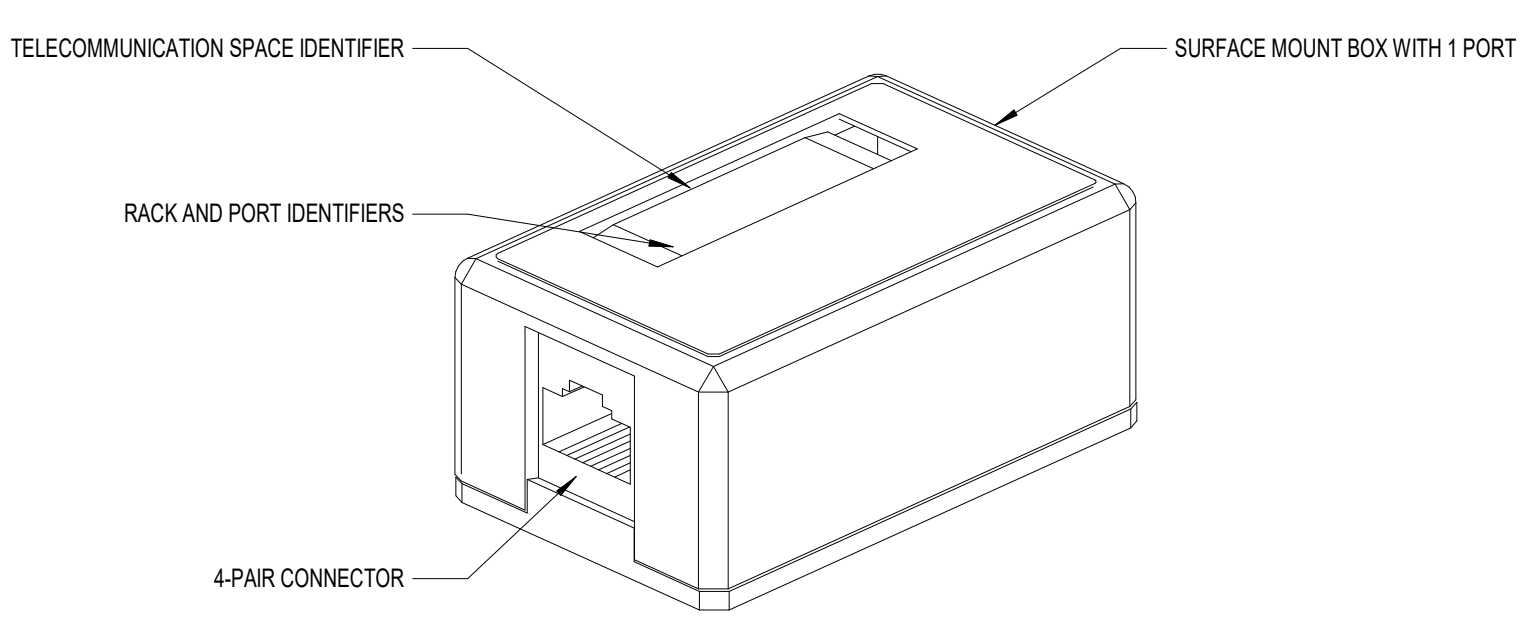
7 1 PORT DATA FACEPLATE DETAIL NTS



SYMBOL DESIGNATION:
 (2) 4-PAIR CABLE
 WAP

OUTLET NOTES:
 1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
 2. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.

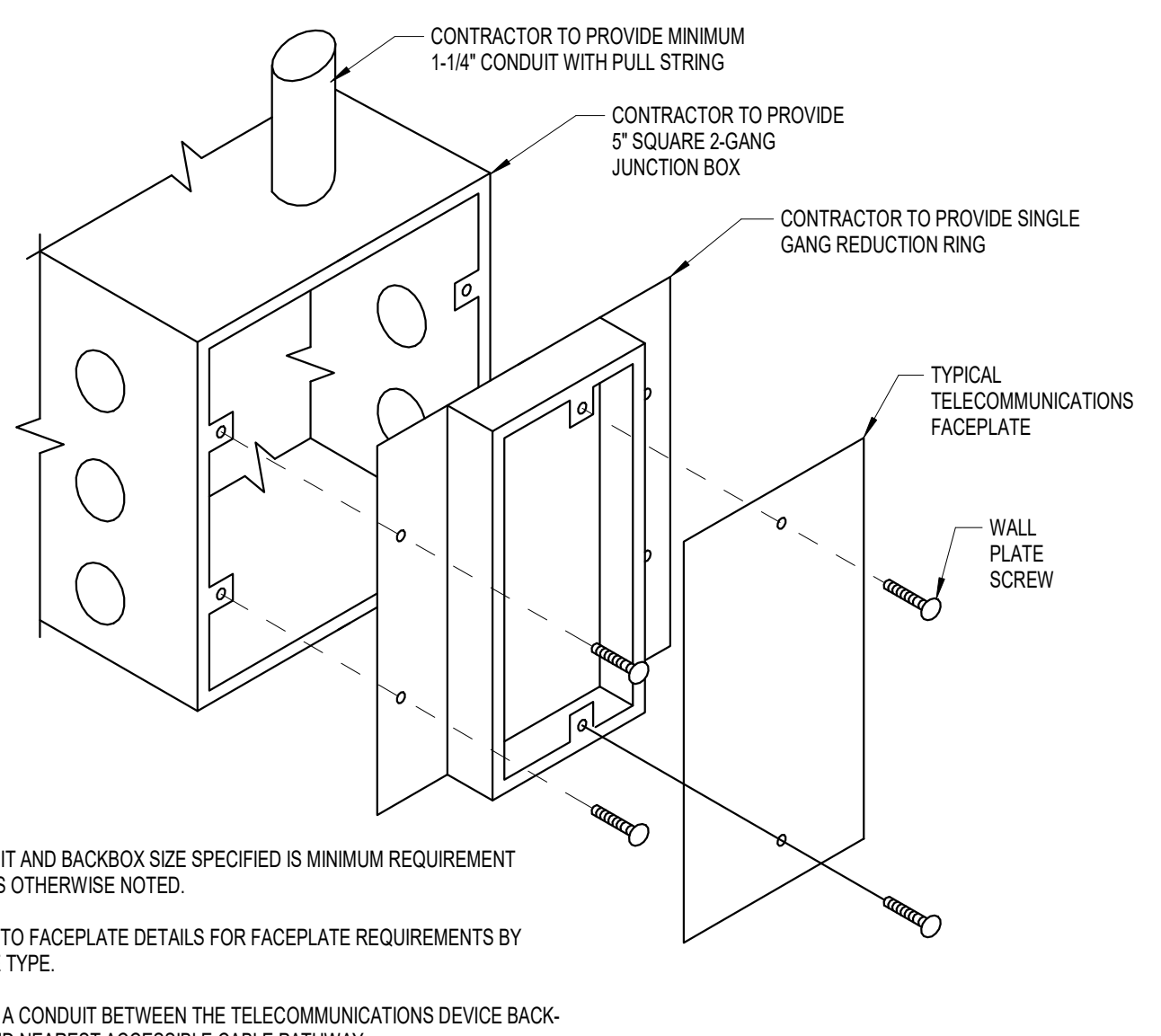
6 2 PORT SURFACE MOUNTED OUTLET DETAIL NTS



SYMBOL DESIGNATION:
 (1) 4-PAIR CABLE
 FACP OR

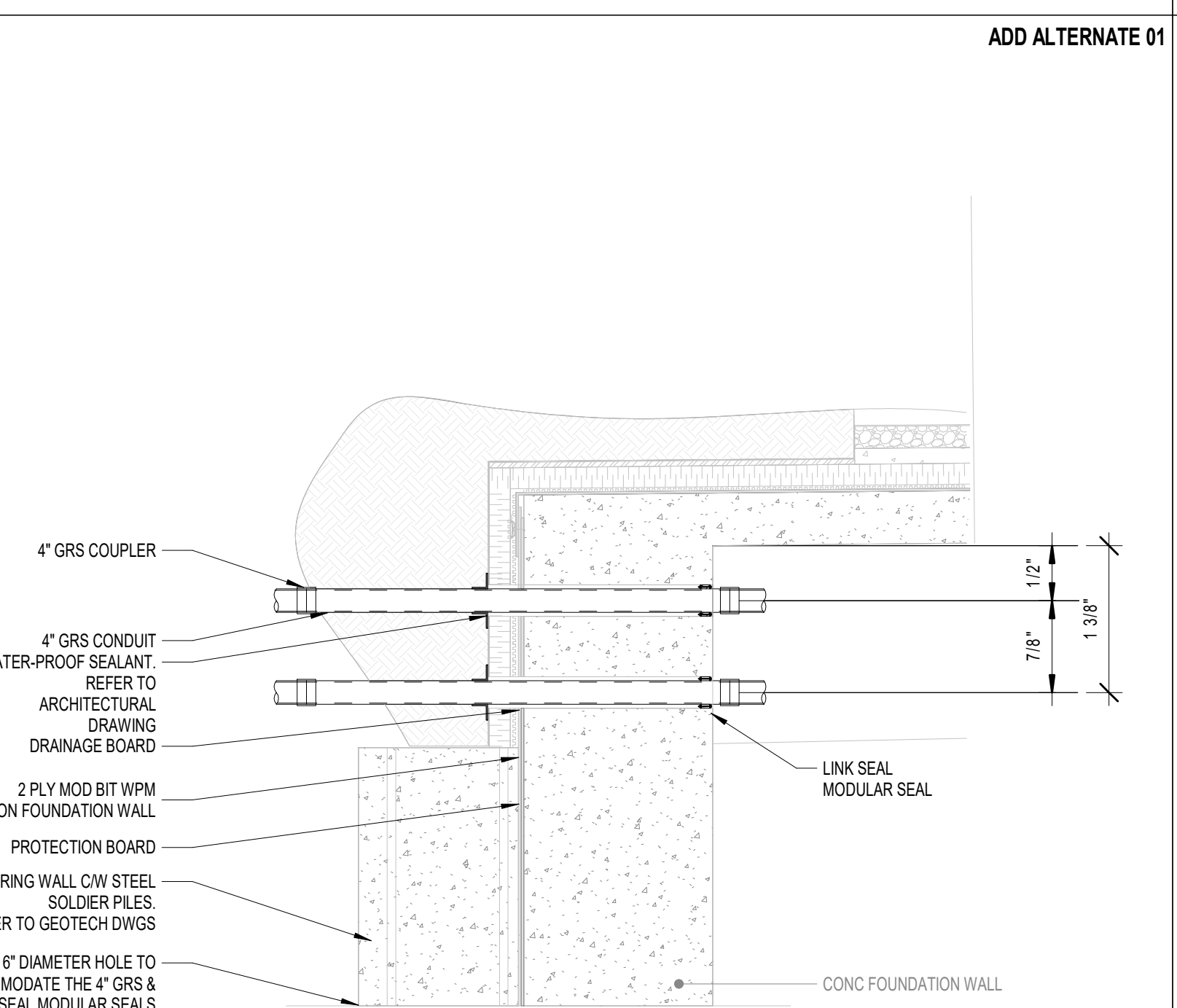
OUTLET NOTES:
 1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
 2. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.

5 1 PORT SURFACE MOUNTED OUTLET DETAIL NTS

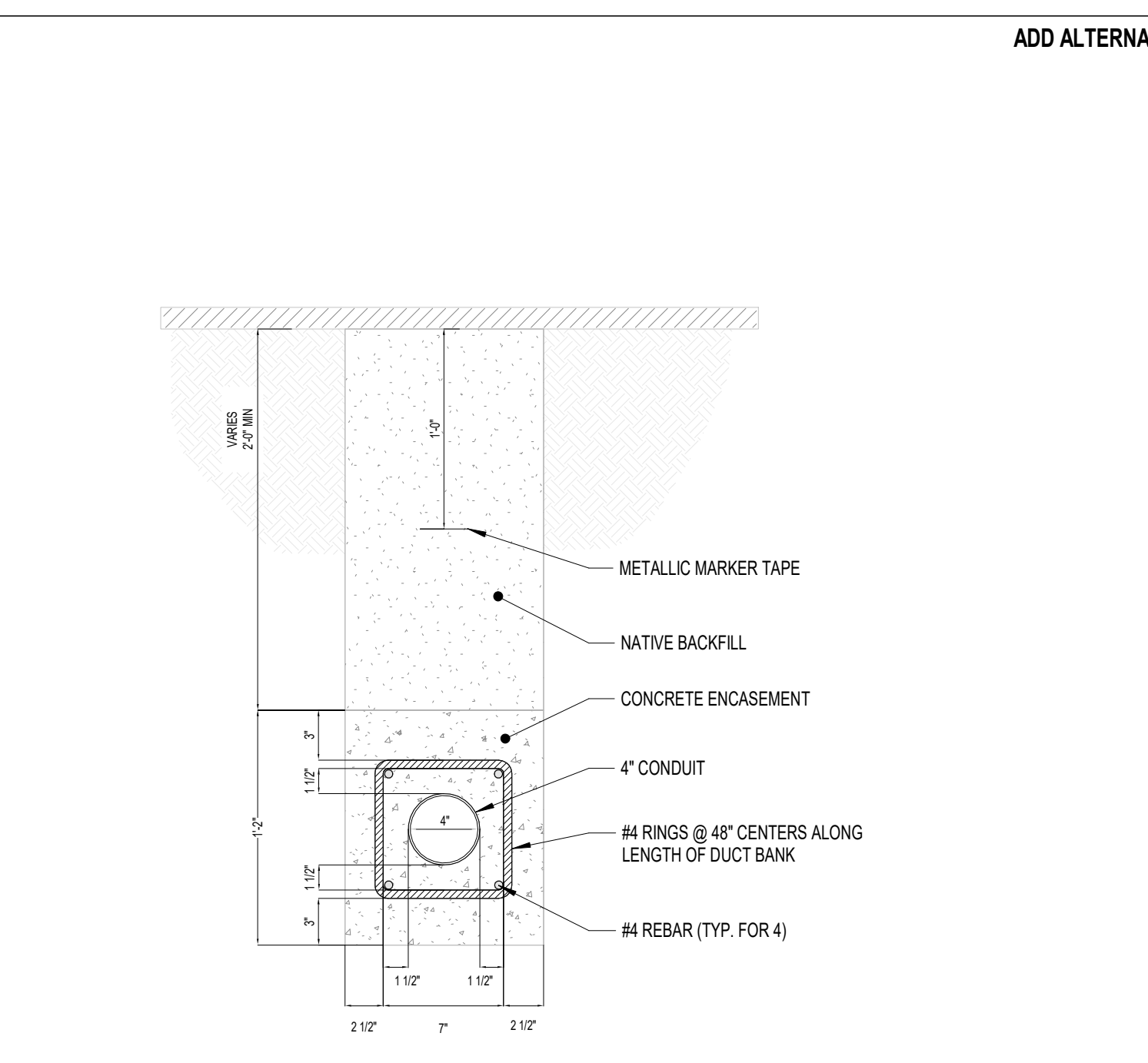


NOTES:
 1. CONDUIT AND BACKBOX SIZE SPECIFIED IS MINIMUM REQUIREMENT UNLESS OTHERWISE NOTED.
 2. REFER TO FACEPLATE DETAILS FOR FACEPLATE REQUIREMENTS BY DEVICE TYPE.
 3. ROUTE A CONDUIT BETWEEN THE TELECOMMUNICATIONS DEVICE BACKBOX AND NEAREST ACCESSIBLE CABLE PATHWAY.
 4. REFER TO TECHNOLOGY PLANS FOR DEVICE LOCATIONS AND QUANTITIES.

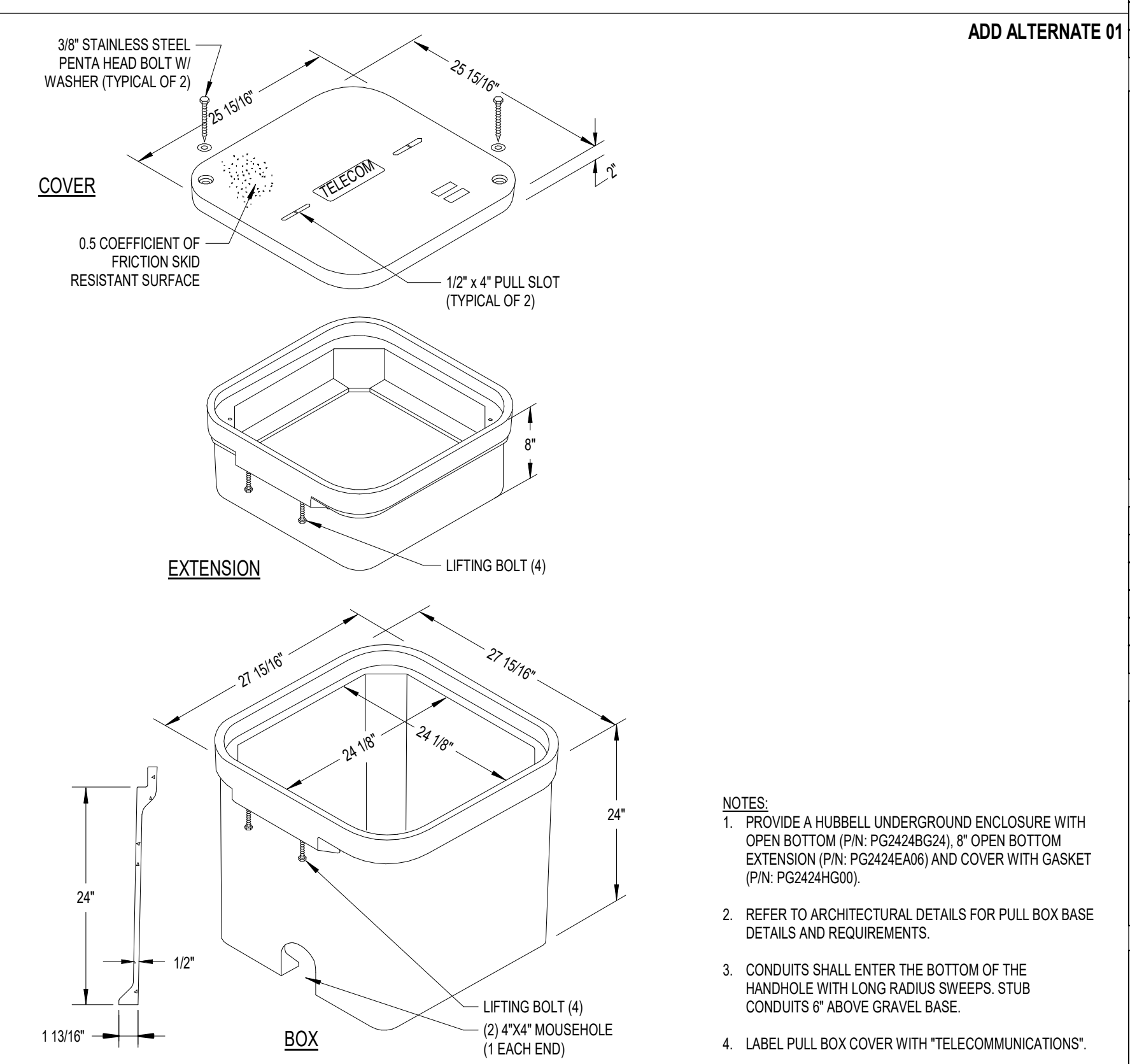
4 TYPICAL FLUSH MOUNTED TELECOMMUNICATIONS DEVICE ROUGH-IN DETAIL NTS



3 TELCOM SERVICE FACILITIES CONDUIT PENETRATION EXAMPLE NTS



2 DUCT BANK SECTION - (1) DUCT NTS



NOTES:
 1. PROVIDE A HUBBELL UNDERGROUND ENCLOSURE WITH OPEN BOTTOM (P/N: PG2424B624), 8\"/>

1 TYPICAL SITE PULL BOX (HANDHOLE) DETAIL NTS

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SHEET NAME:
TECHNOLOGY DETAILS - STRUCTURED CABLING

SHEET NUMBER:
T600

PROJECT PHASE:
CONSTRUCTION DOCUMENTS

APPROVAL STAMP AREA



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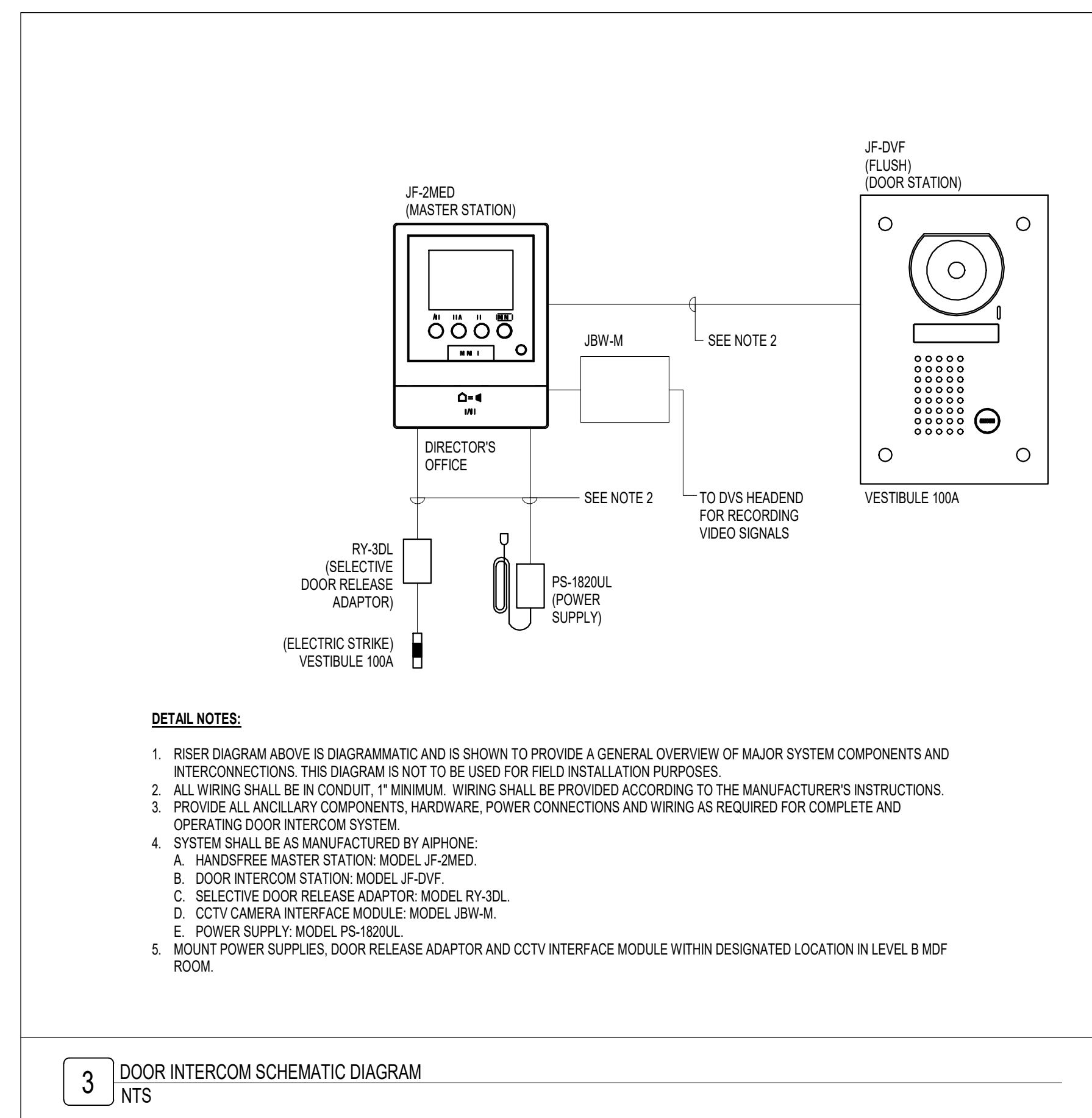
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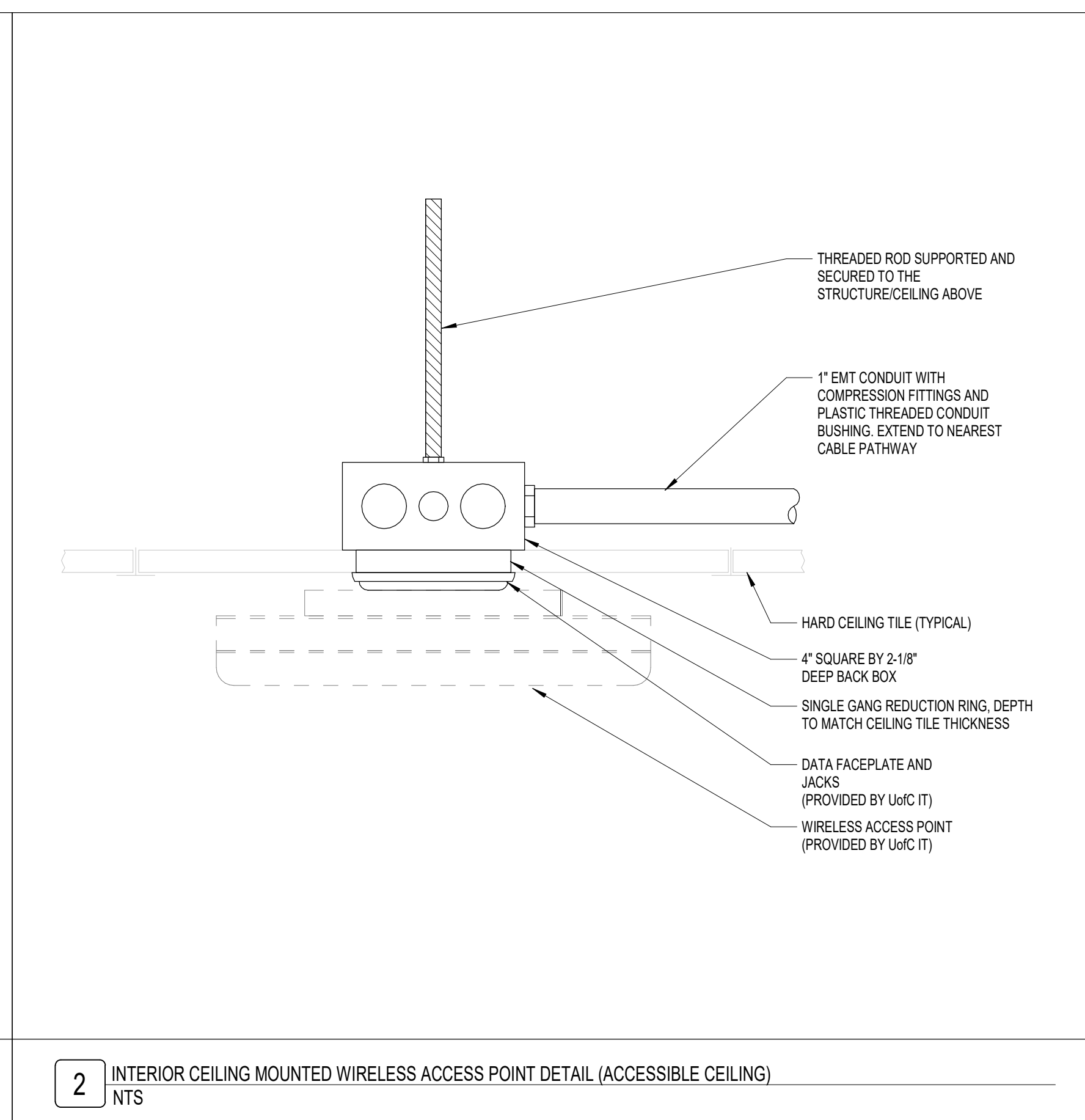
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TECHNOLOGY DETAILS - STRUCTURED CABLING

SHEET NUMBER:
T601

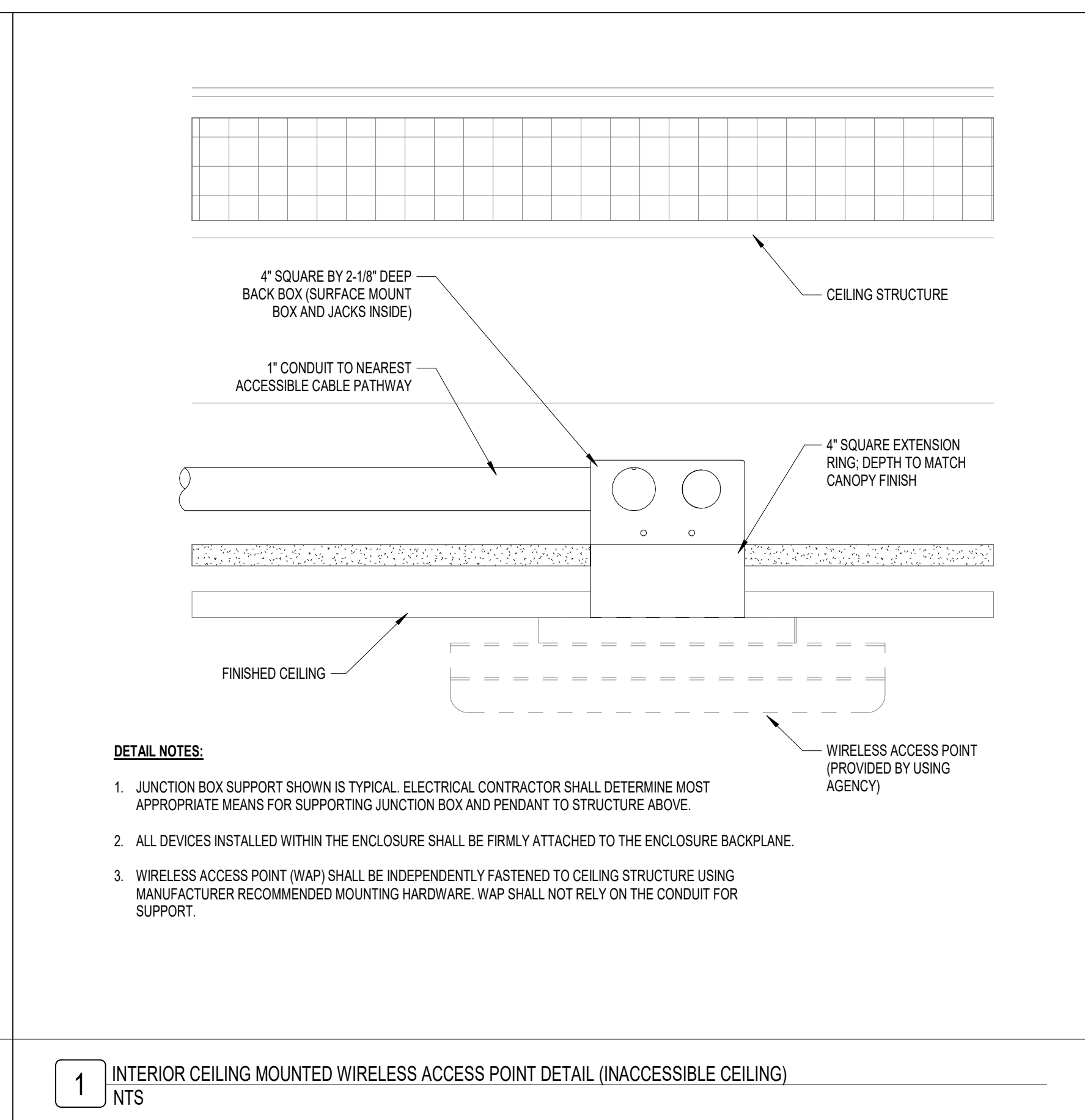
PROJECT PHASE:
CONSTRUCTION DOCUMENTS



3 DOOR INTERCOM SCHEMATIC DIAGRAM
 NTS

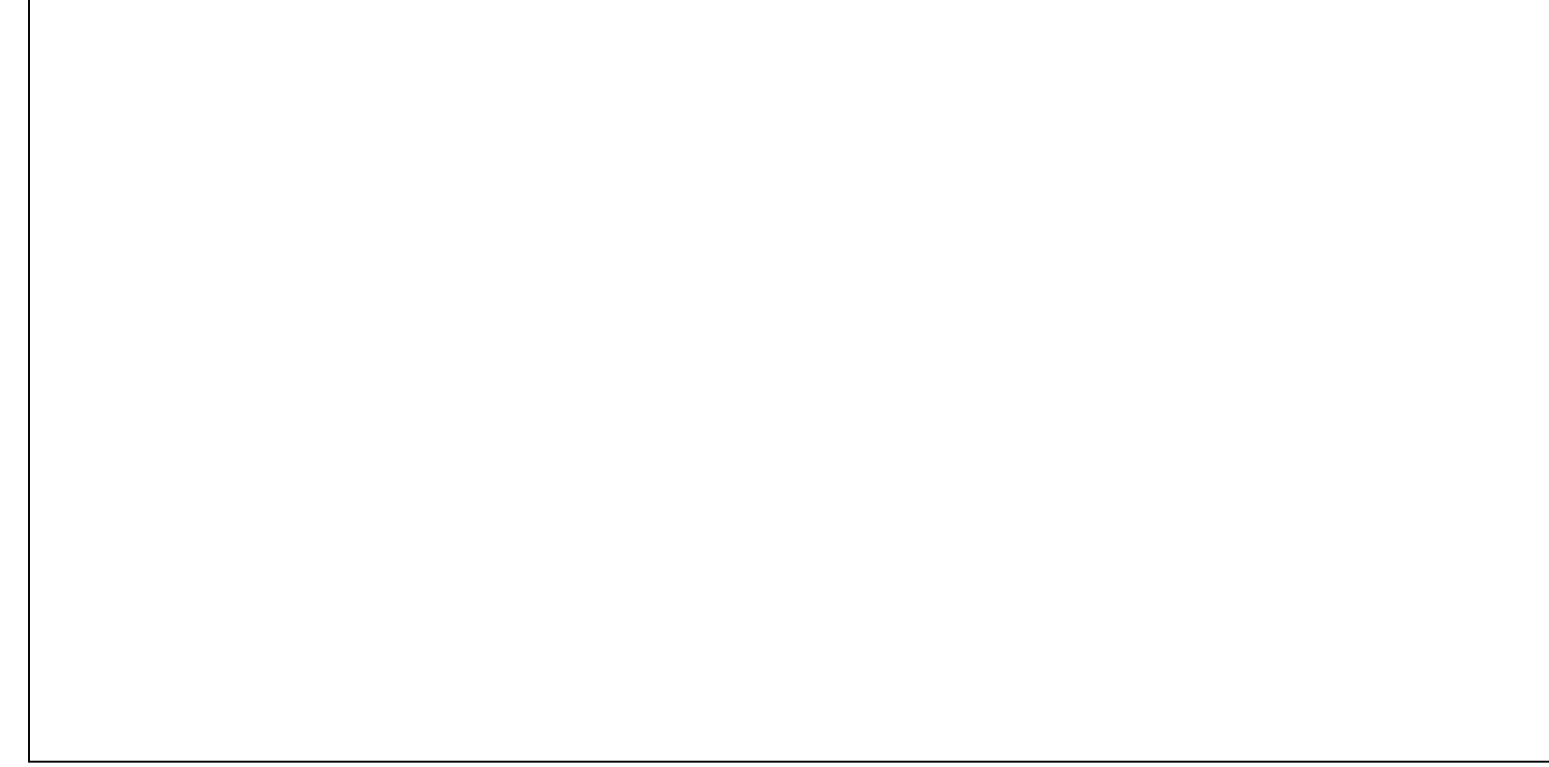


2 INTERIOR CEILING MOUNTED WIRELESS ACCESS POINT DETAIL (ACCESSIBLE CEILING)
 NTS

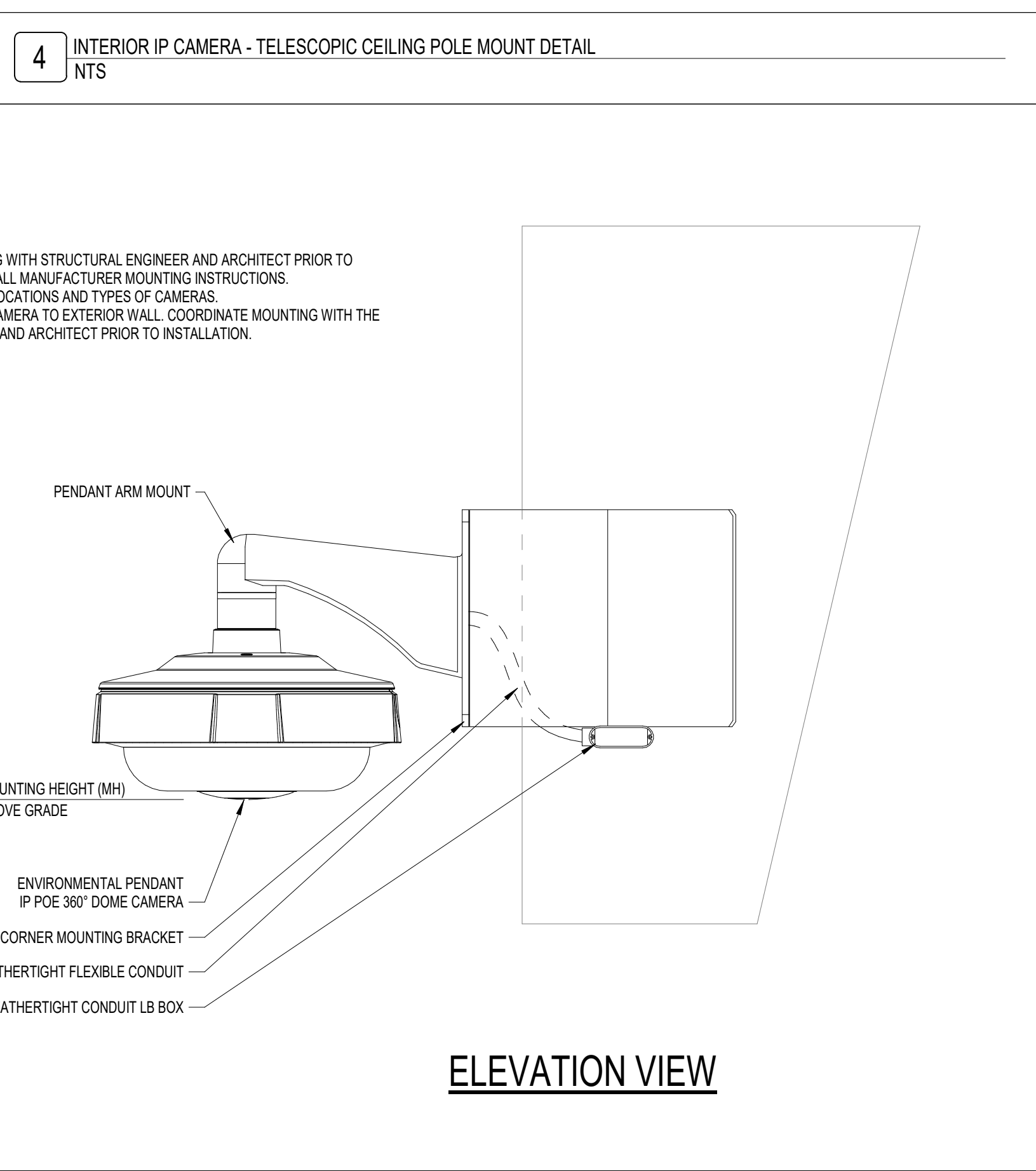
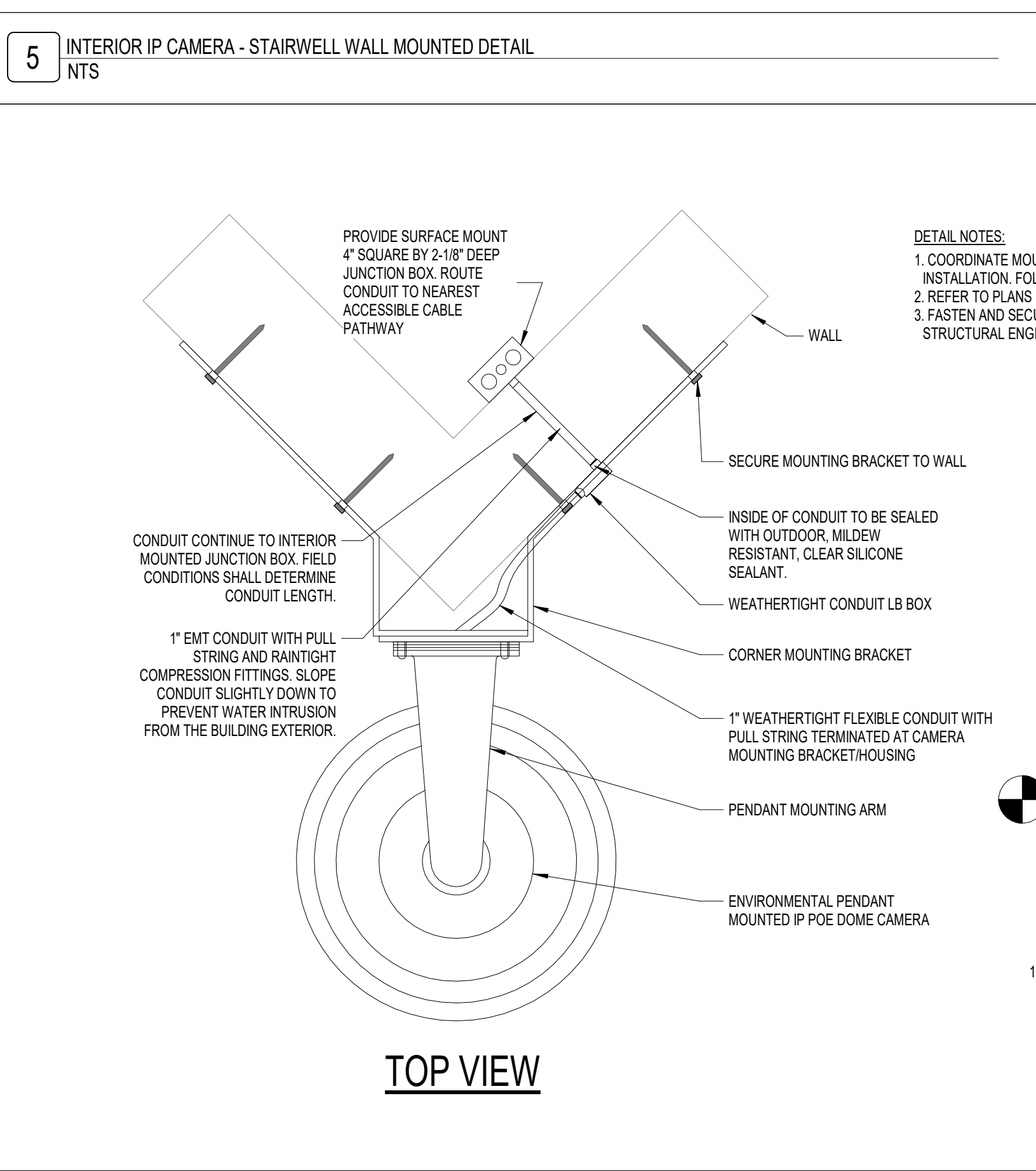
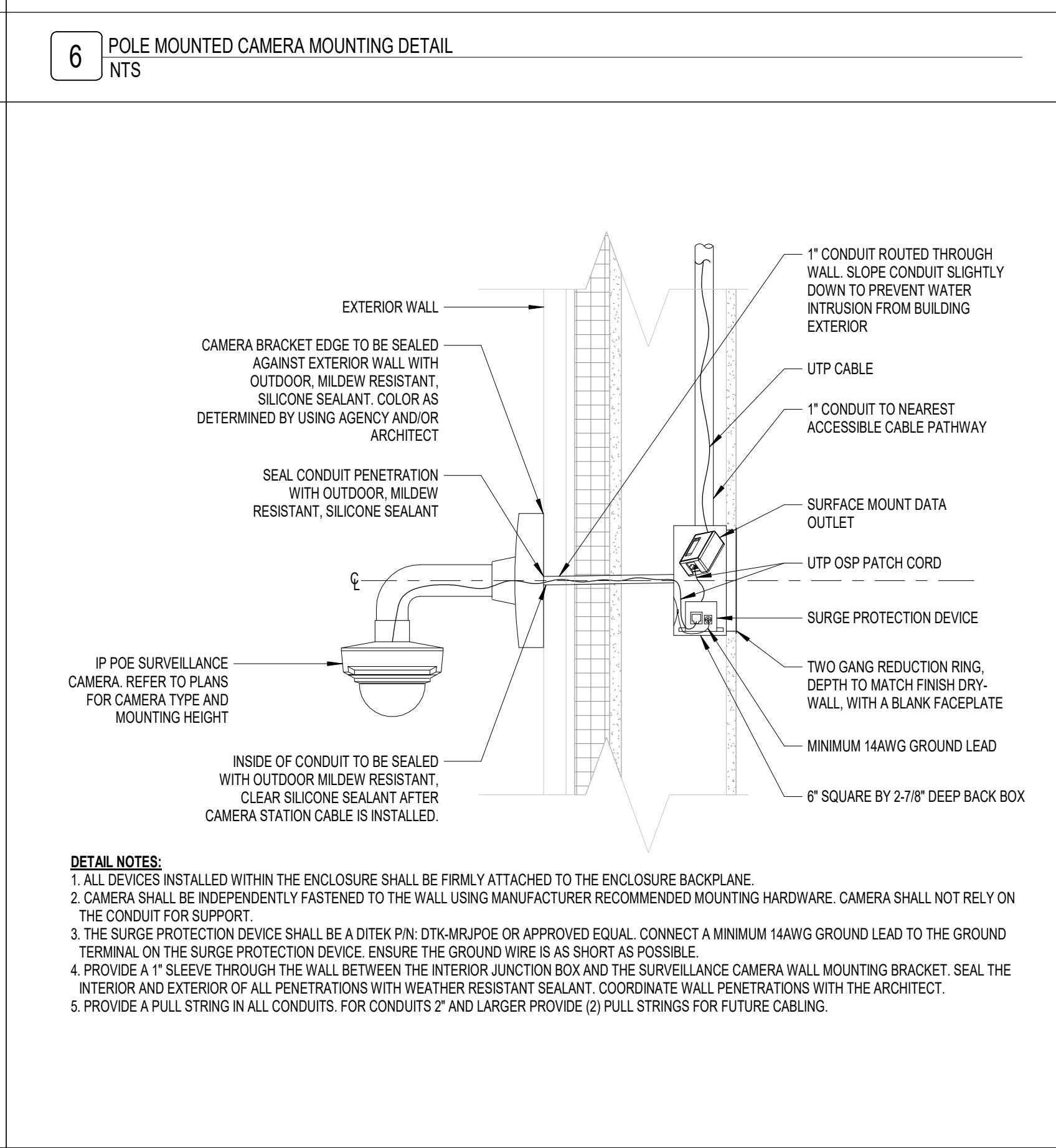
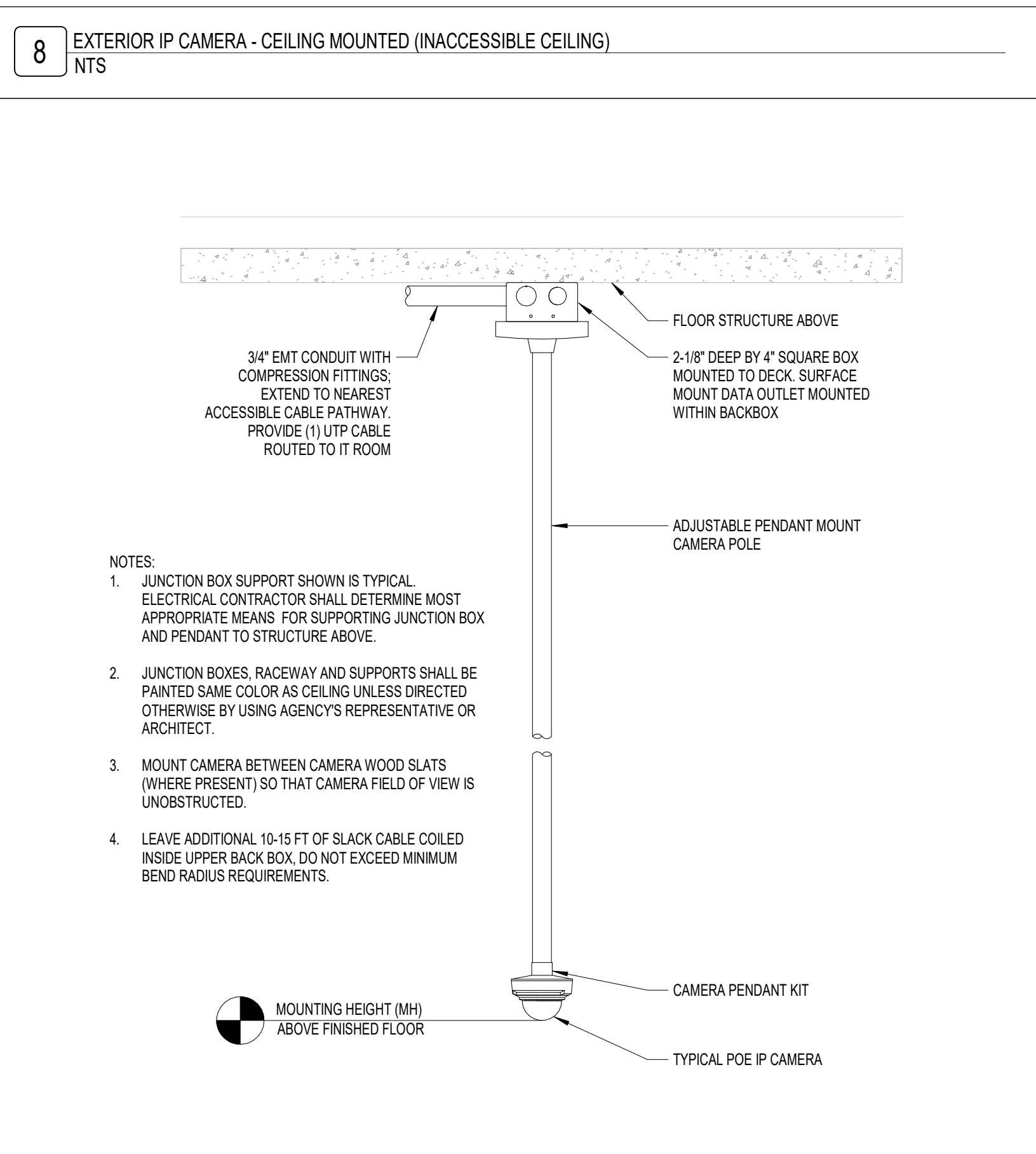
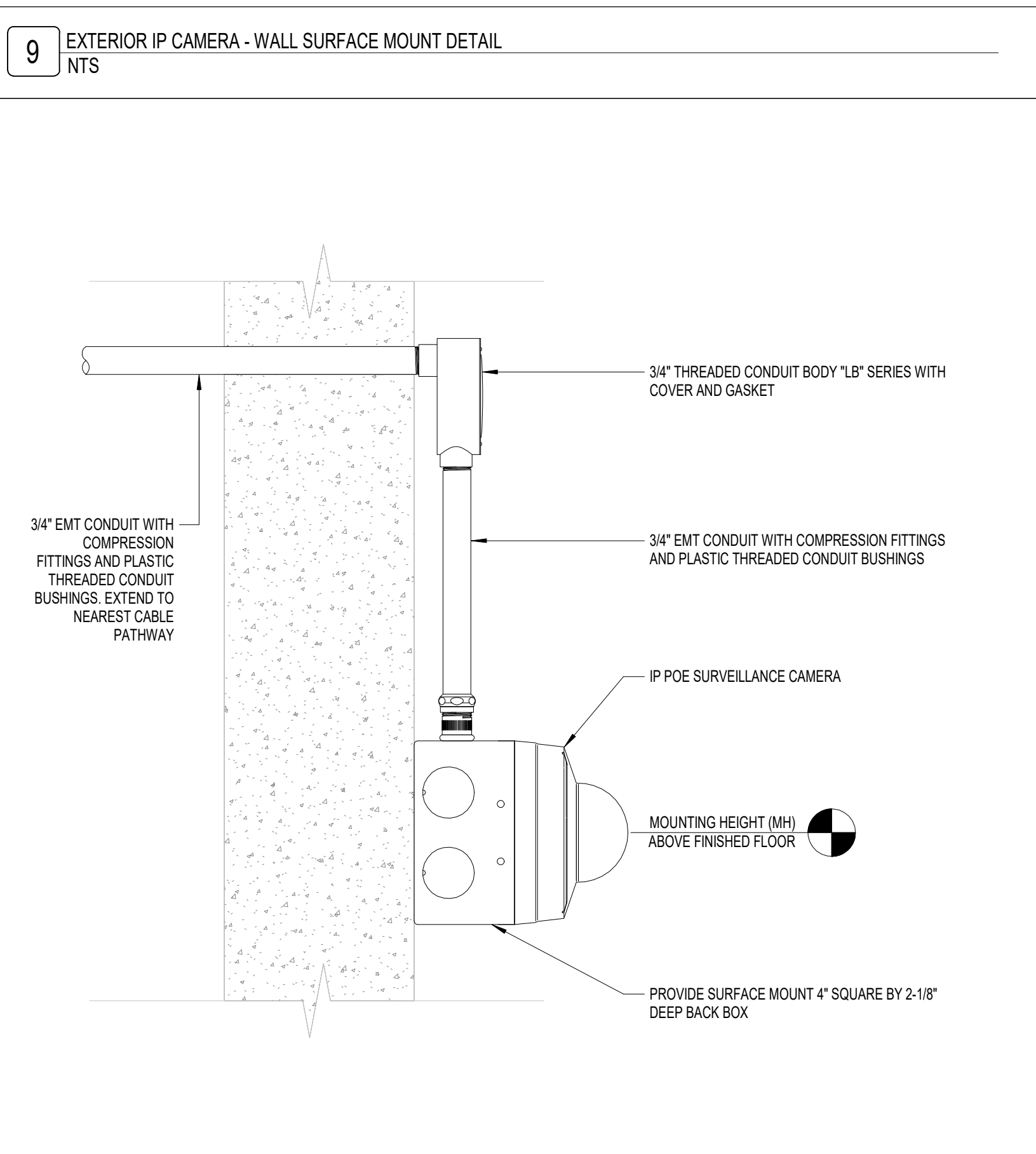
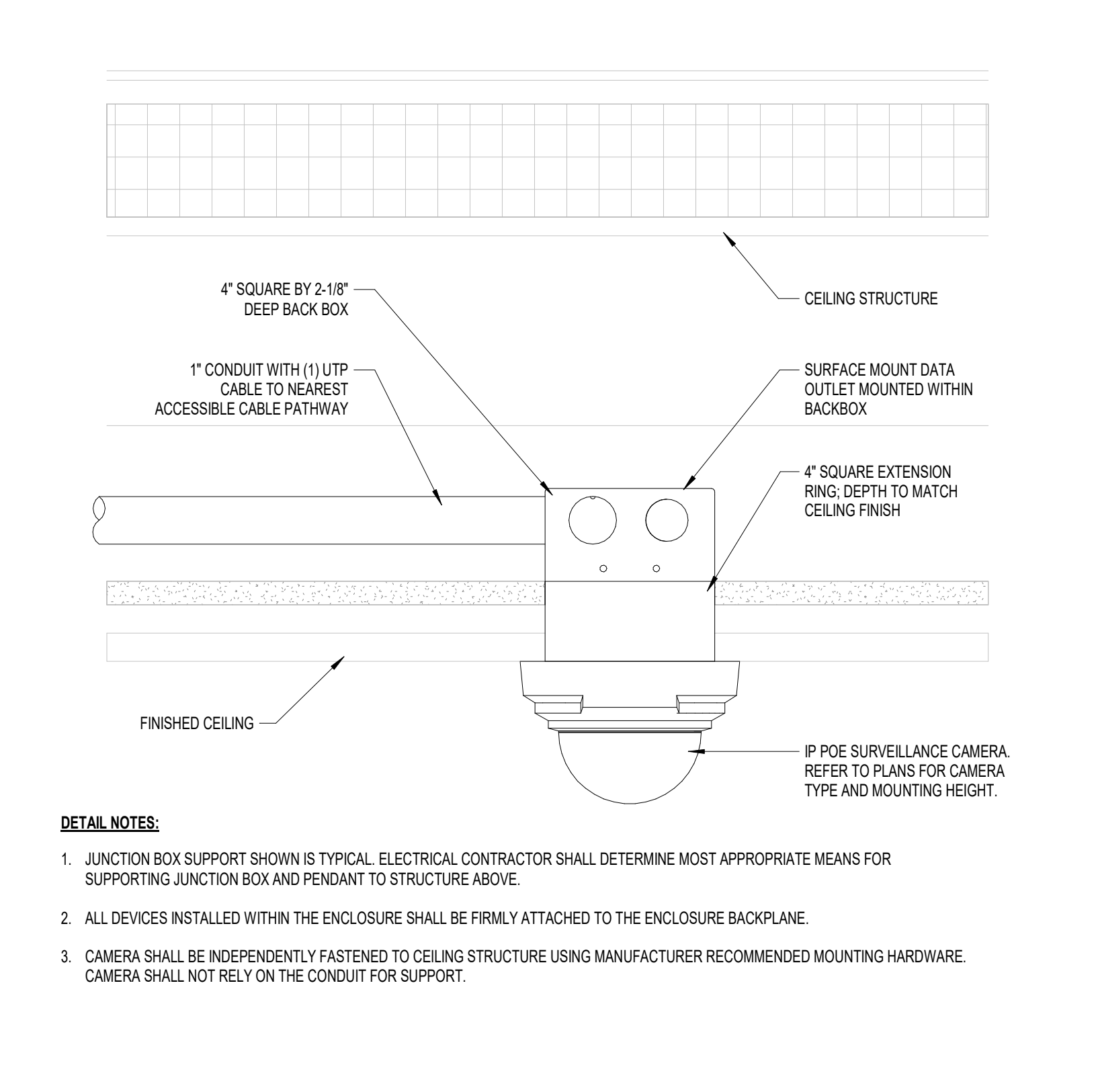
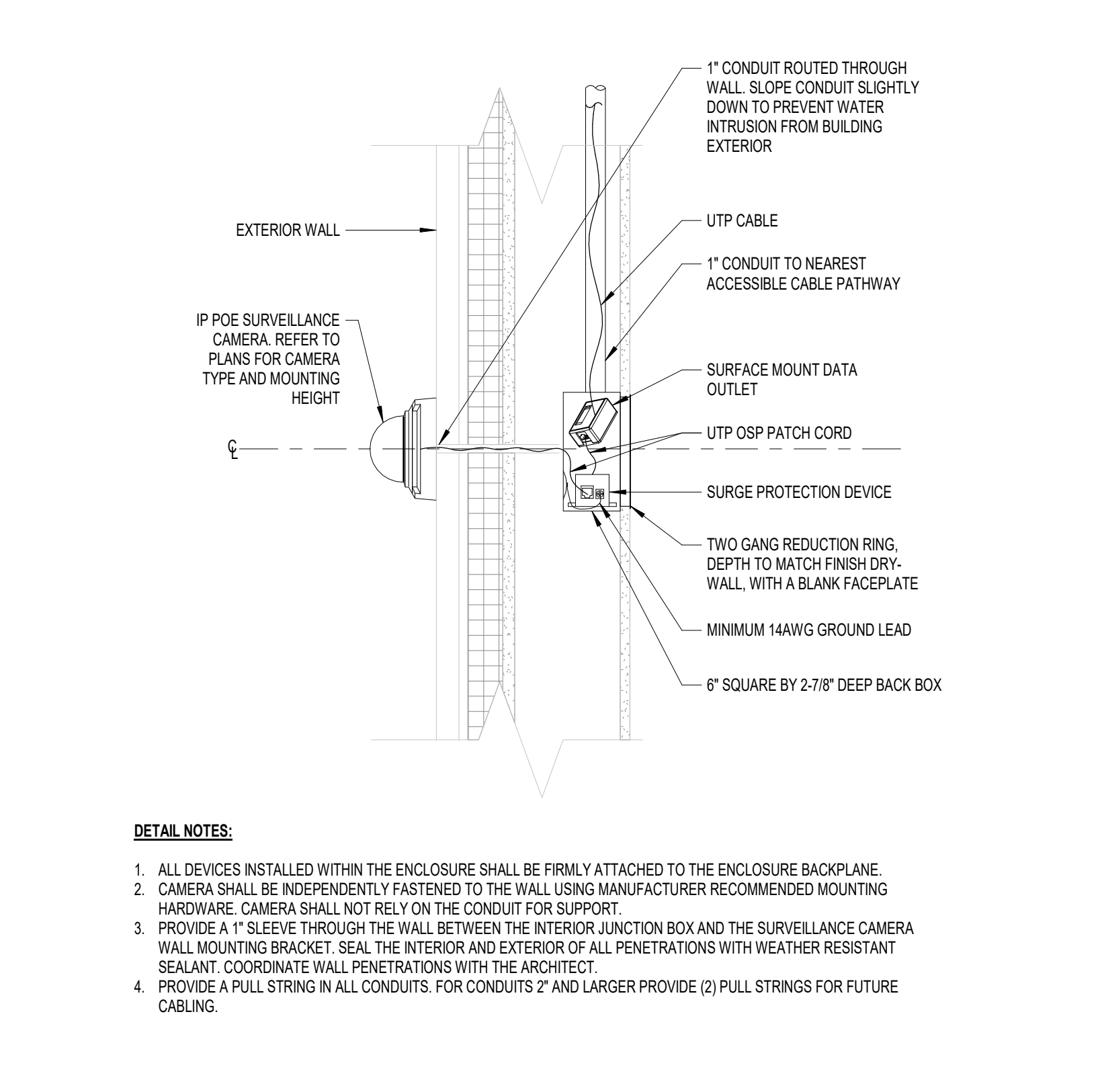
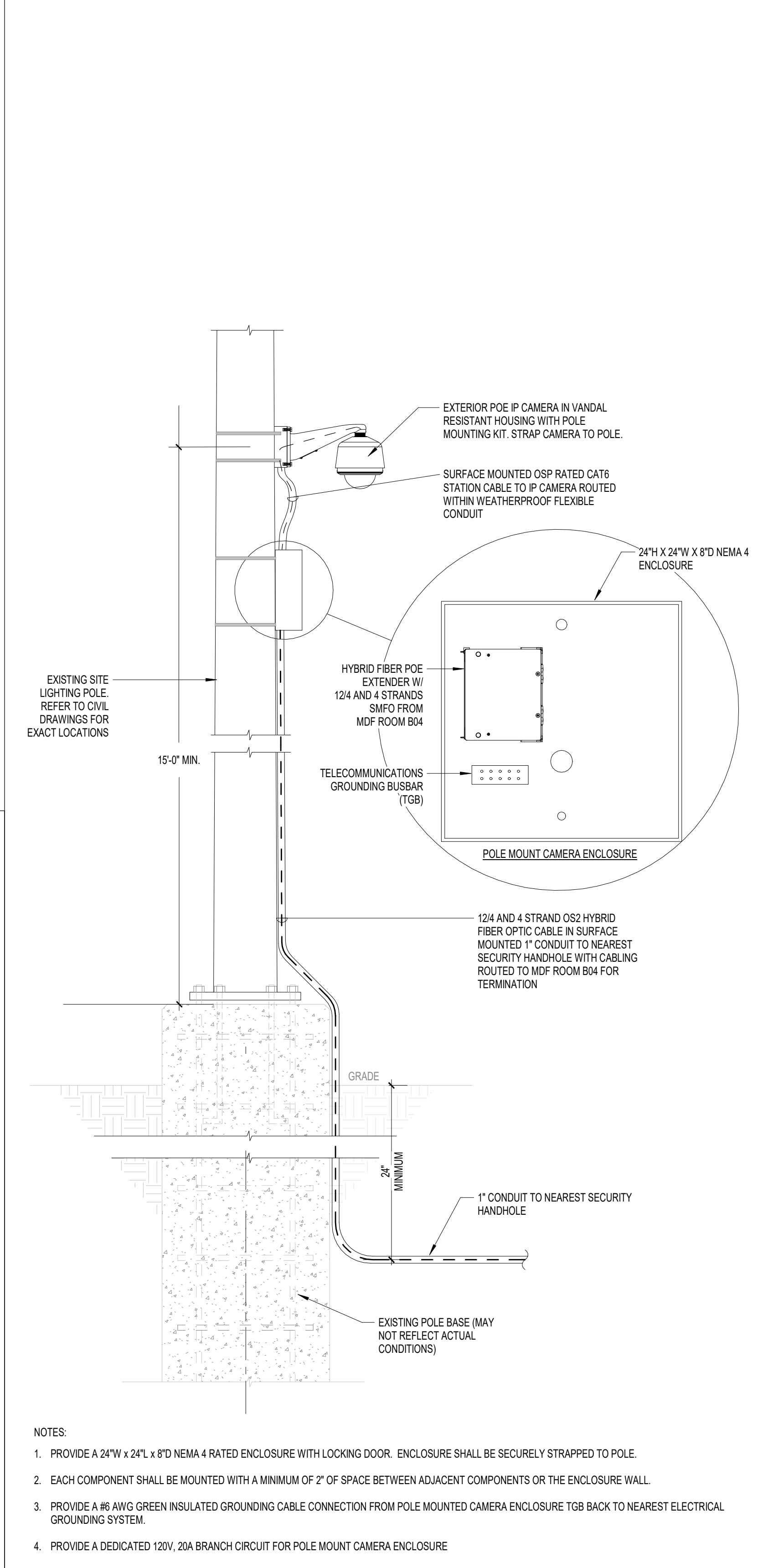


1 INTERIOR CEILING MOUNTED WIRELESS ACCESS POINT DETAIL (INACCESSIBLE CEILING)
 NTS

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ADD ALTERNATE 01



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SHEET NAME:
TECHNOLOGY
DETAILS - VIDEO
SURVEILLANCE

SHEET NUMBER:
T620

PROJECT PHASE:
CONSTRUCTION DOCUMENTS