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Civil:

MEP

Structural Engineer

Professional Seal



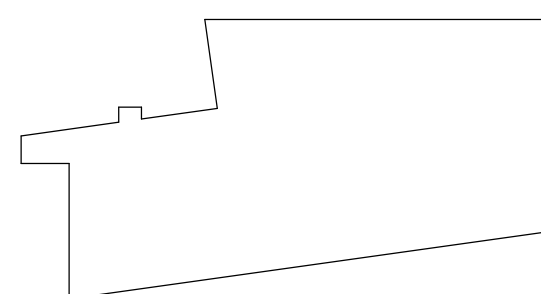
1350 EDMONT AVENUE
RENOVATIONS

1350 EDMONT AVENUE
CHESTER, PA 19013

NO.	DESCRIPTION	DATE
	BUILDING PERMIT SET	01/30/202
	ISSUED FOR BIDDING	01/30/202

SG PROJECT NUMBER: 22-023.1

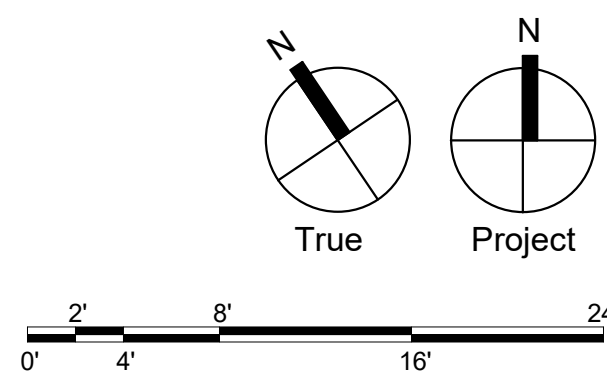
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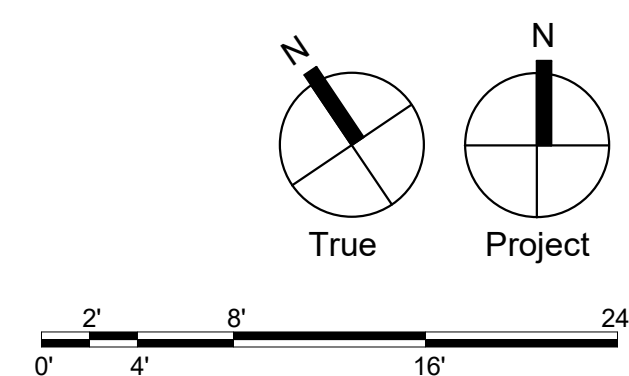
COVER SHEET -
MECHANICAL

M000

NOTE: NOT ALL SYMBOLS & ABBREVIATIONS SHOWN ARE USED ON THIS PROJECT

NOTE: NOT ALL TAGS SHOWN ARE USED ON THIS PROJECT





Civil:

MEP:

Structural Engineer

Professional Seal:

1350 EDMONT AVENUE
RENOVATIONS

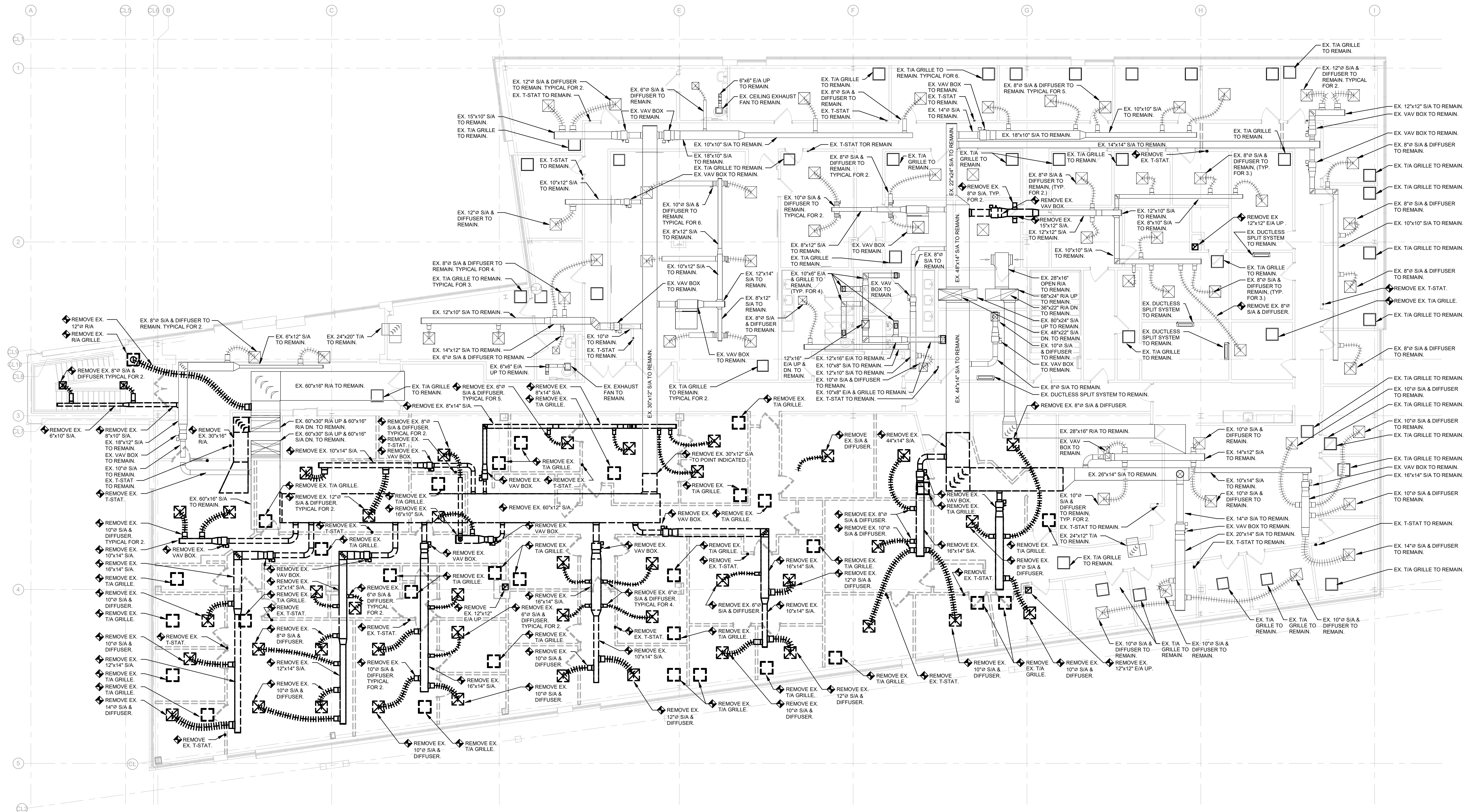
1330 EDMONT AVENUE
CHESTER, PA 19013

NO.	DESCRIPTION	DATE
	BUILDING PERMIT SET	01/30/2023
	ISSUED FOR BIDDING	01/30/2023

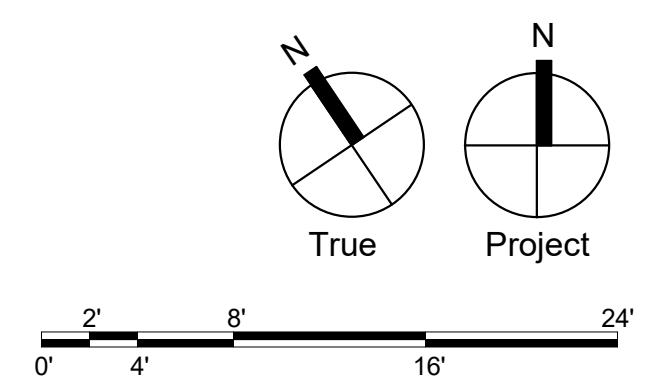
SG PROJECT NUMBER:	22-023.1
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Drawing Number:

MD102



MD102 SCALE: 1/8" = 1'-0"



Civil:

74 West Broad Street, Suite 530
Bethlehem, PA 18018
(610)-625-2999

(601) 694-8020

717.299.8965

232 W. 9th Street
Chester, PA 19013


1350 EDMONT AVENUE
RENOVATIONS

1350 EDMONT AVENUE
CHESTER, PA 19013

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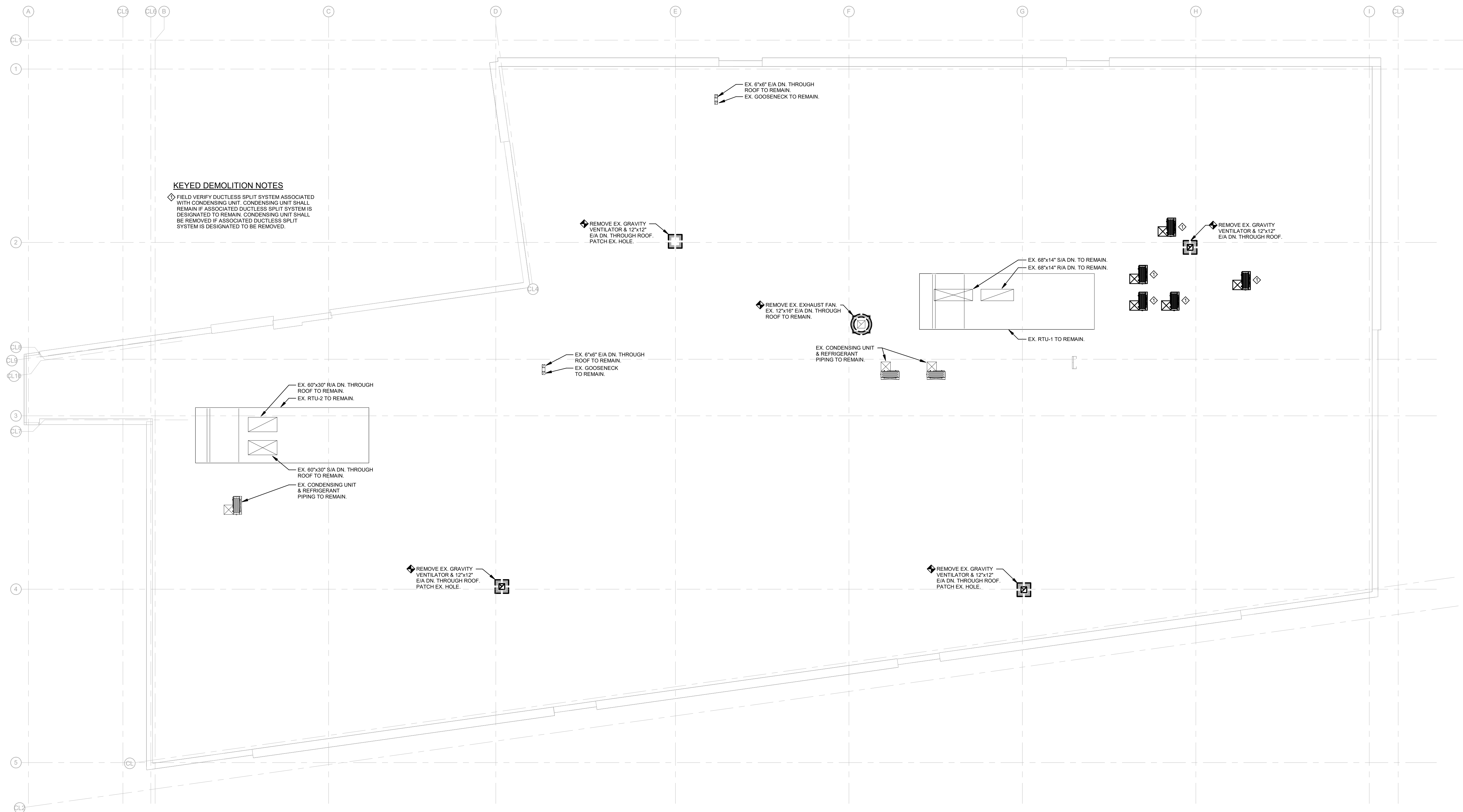
DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.1



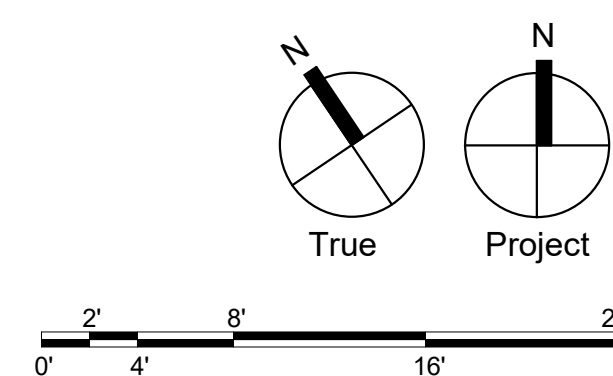
ROOF DEMOLITION PLAN - MECHANICAL

MD103



1 | ROOF DEMOLITION PLAN - MECHANICAL

MD103 SCALE: 1/8" = 1'-0"



Civil

T&M Associates
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MEP

SNYDER HOFFMAN
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Bethlehem, PA 18018
(601) 694-8020

Structural Engineer.

SCHRADERGROUP
153 East King Street, Suite 211-212
Lancaster, PA 17602
717.299.8965

Professional Seal



Owner:
CHESTER UPLAND
SCHOOL DISTRICT
232 W. 9th Street
Chester, PA 19013

1350 EDMONT AVENUE
RENOVATIONS

1350 EDMONT AVENUE
CHESTER PA 19013

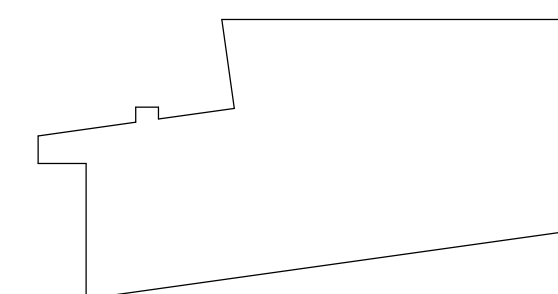
ISSUED FOR:

NO.	DESCRIPTION	DATE
	BUILDING PERMIT SET	01/30/2023
	ISSUED FOR BIDDING	01/30/2023

DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.

Key Plan

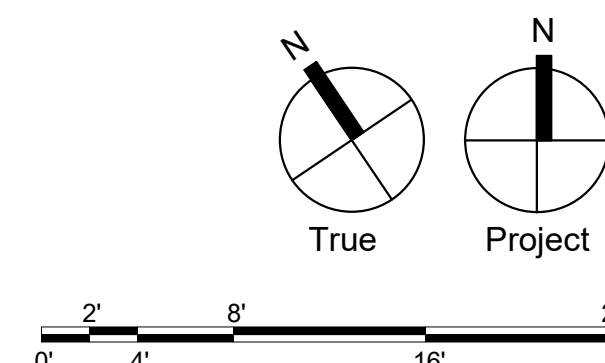


Drawing Title

FIRST FLOOR PLAN -
MECHANICAL

Drawing Number:

M101



1 FIRST FLOOR PLAN - MECHANICAL

M10-

Civil:

MEP

Structural Engineer


Professional Seal:

1350 EDMONT AVENUE
RENOVATIONS

1350 EDGMONT AVENUE
CHESTER, PA 19013

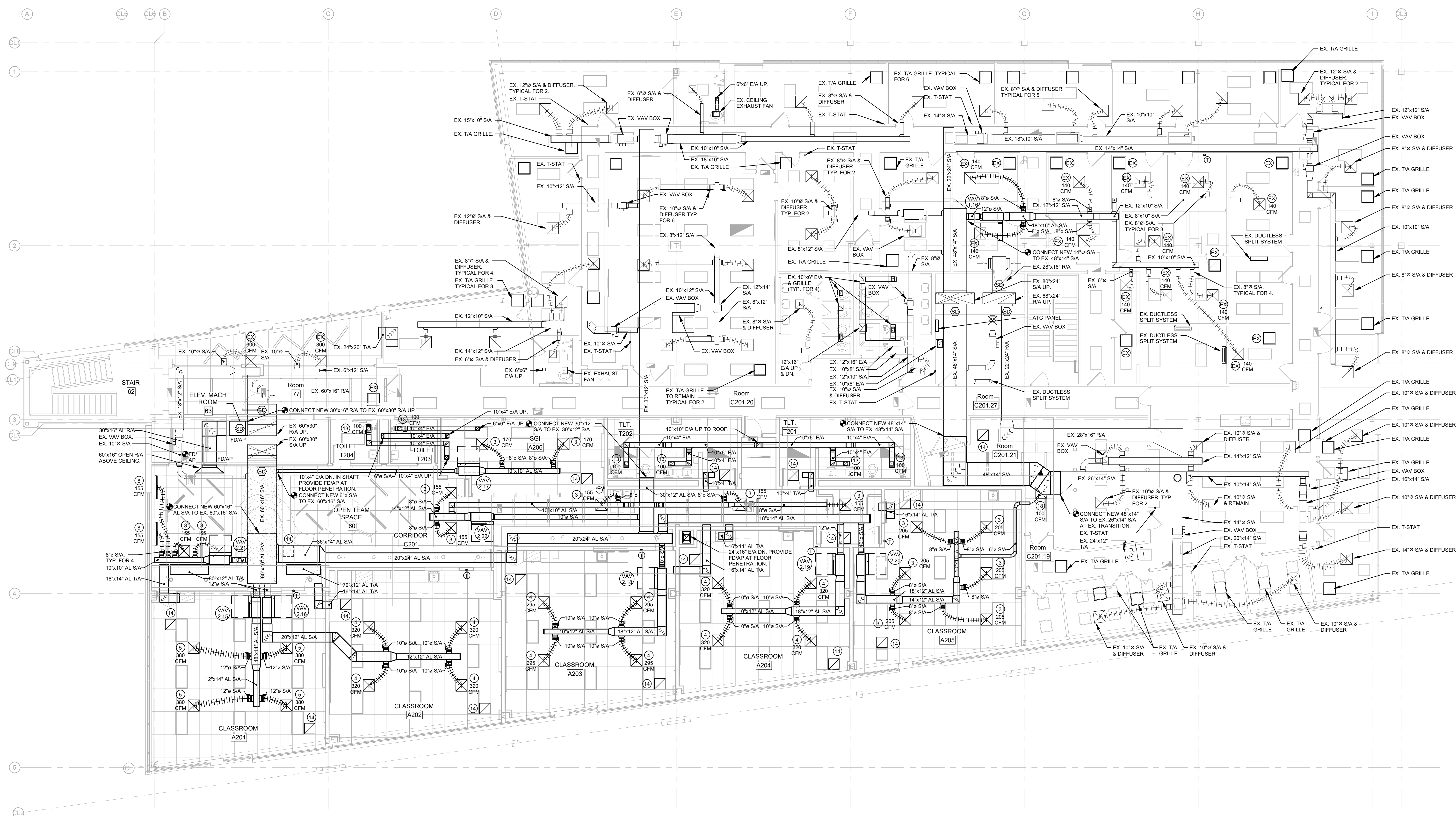
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	BUILDING PERMIT SET	01/30/2023
	ISSUED FOR BIDDING	01/30/2023

SG PROJECT NUMBER: 22-023.1

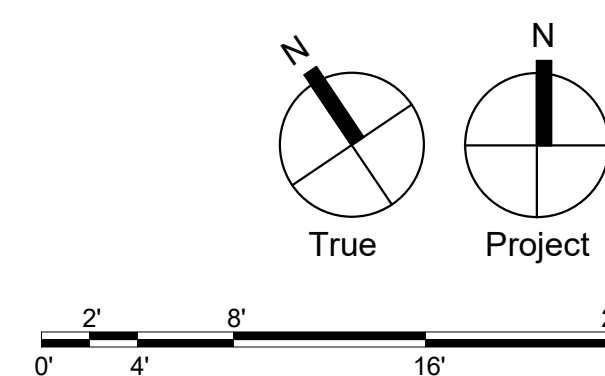


Drawing Number:

M102



M102 SCALE: 1/8" = 1'-0"



Civil:

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Owner:

232 W. 9th Street
Chester, PA 19013

1350 EDMONT AVENUE
RENOVATIONS

1350 EDMONT AVENUE
CHESTER, PA 19013

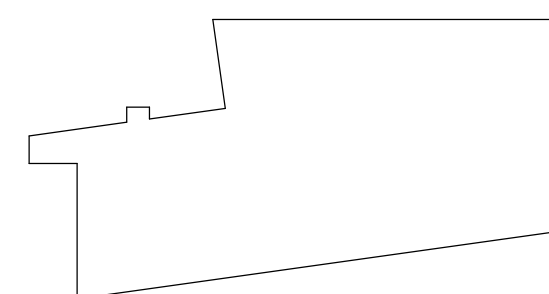
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DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.1

Key Plan:

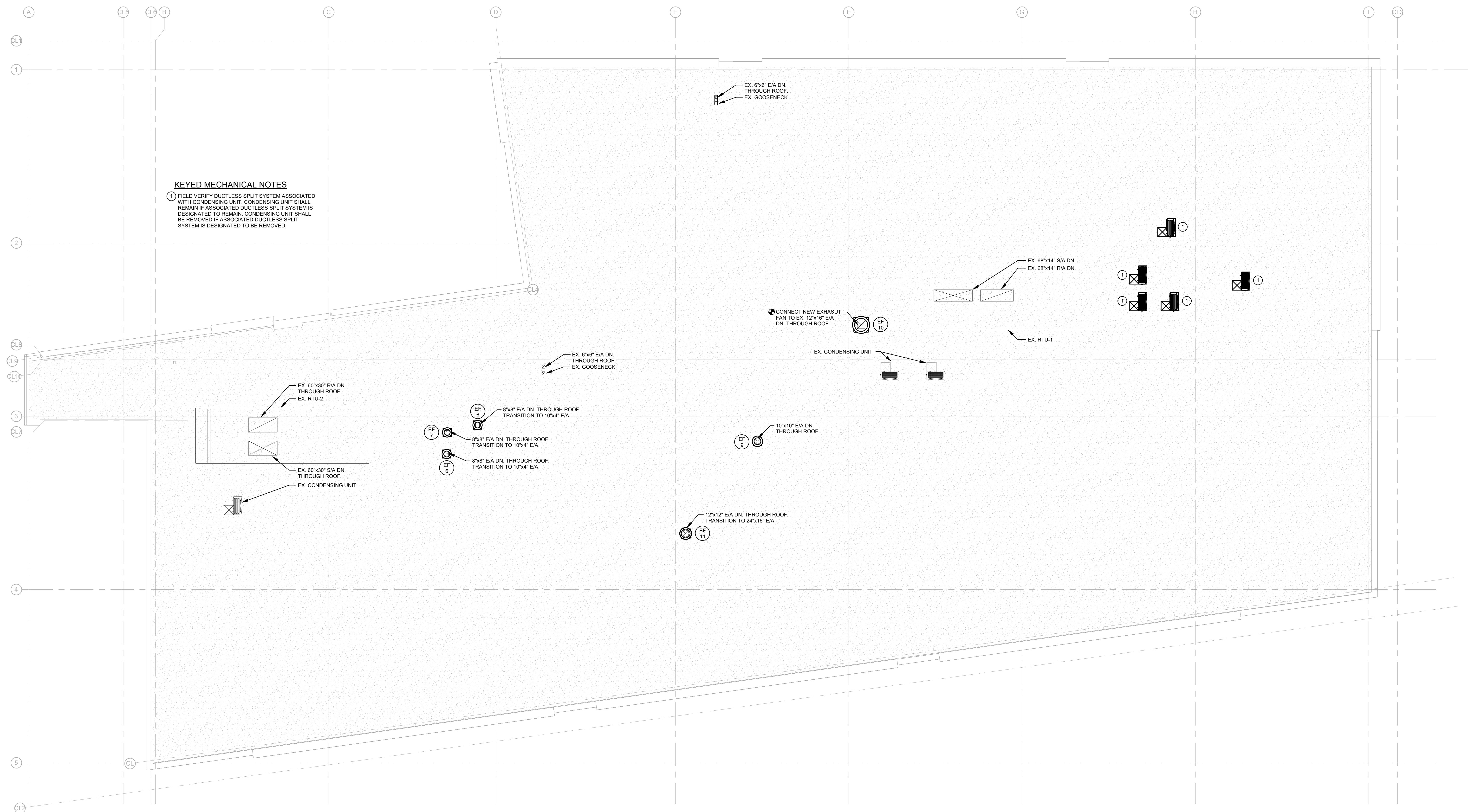


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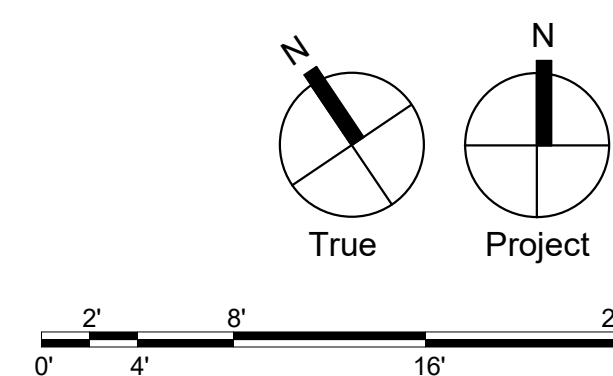
ROOF PLAN -
MECHANICAL

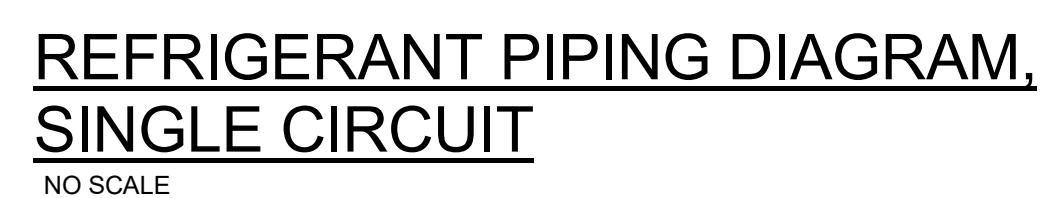
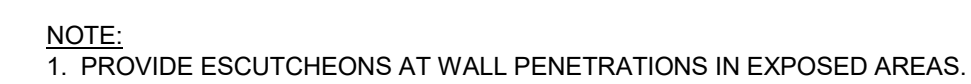
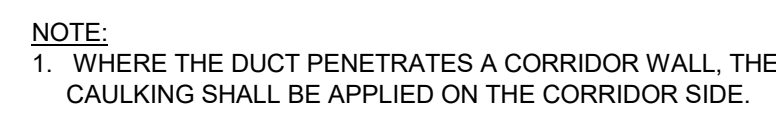
Drawing Number:

M103



M103 SCALE: 1/8" = 1'-0"

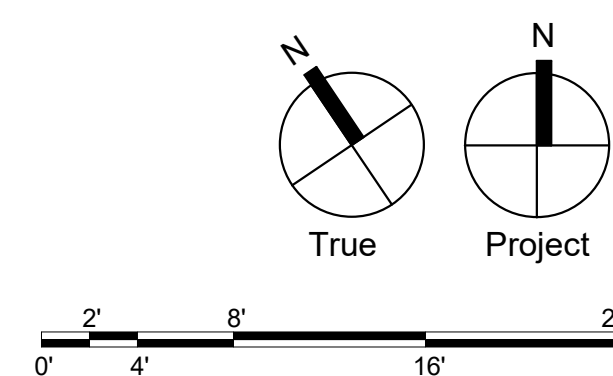




1350 EDMONT AVENUE
RENOVATIONS

1350 EDMONT AVENUE
CHESTER, PA 19013

M500



Civil

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SCHRADERGROUP

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717.299.8965

Professional Seal:



Owner:

CHESTER UPLAND
SCHOOL DISTRICT

232 W. 9th Street

232 W. 9th Street
Chester, PA 19013

1350 EDMONT AVENUE
RENOVATIONS

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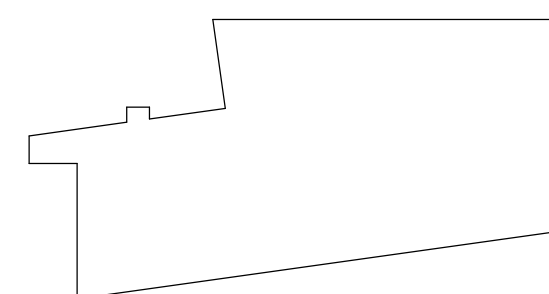
ISSUED FOR:

[illegible]

DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.1

Key Plan:

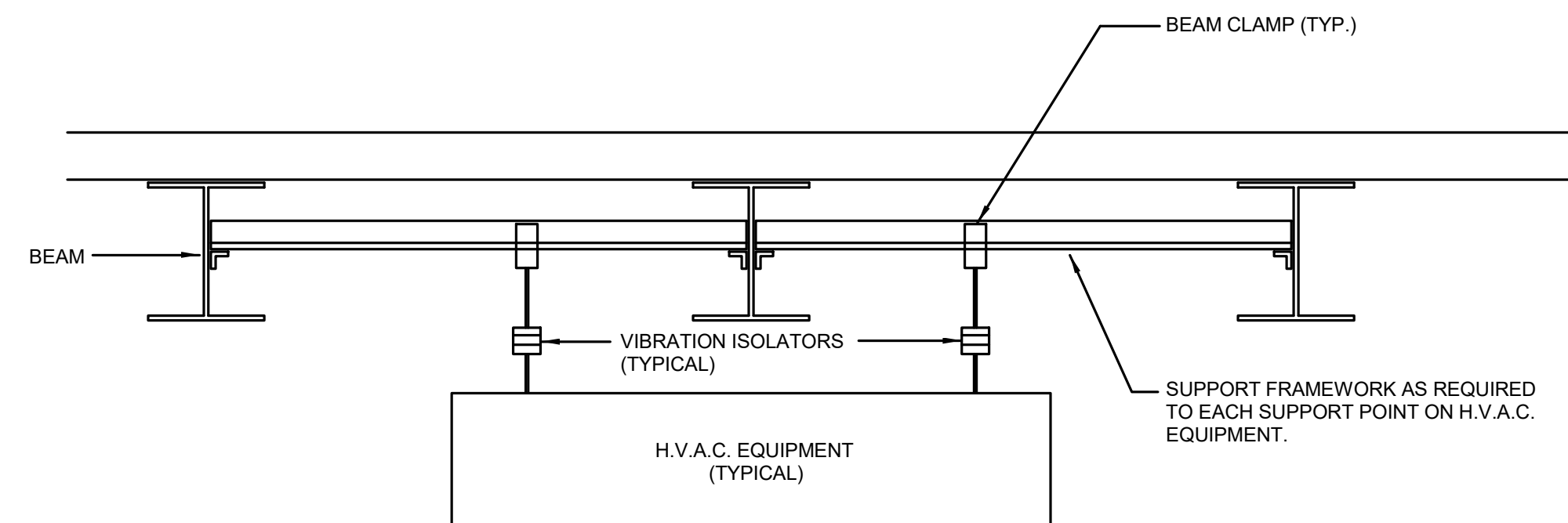


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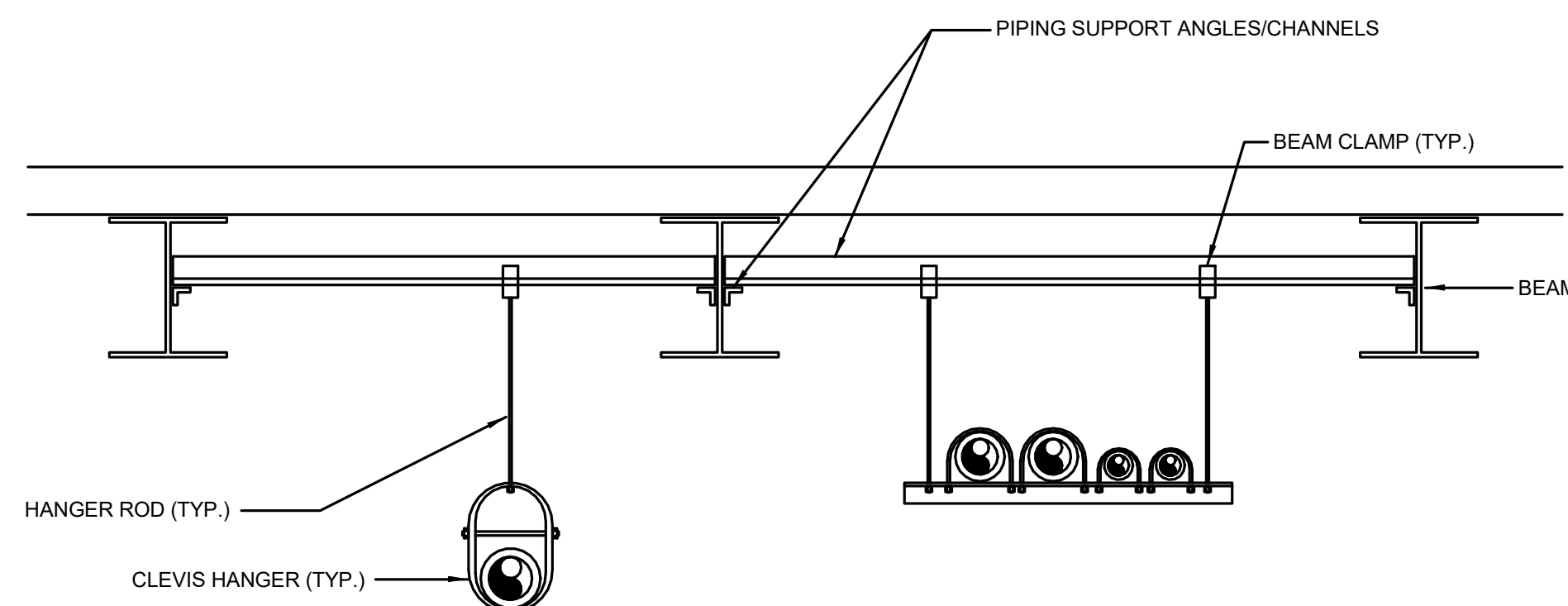
DETAILS - MECHANICAL

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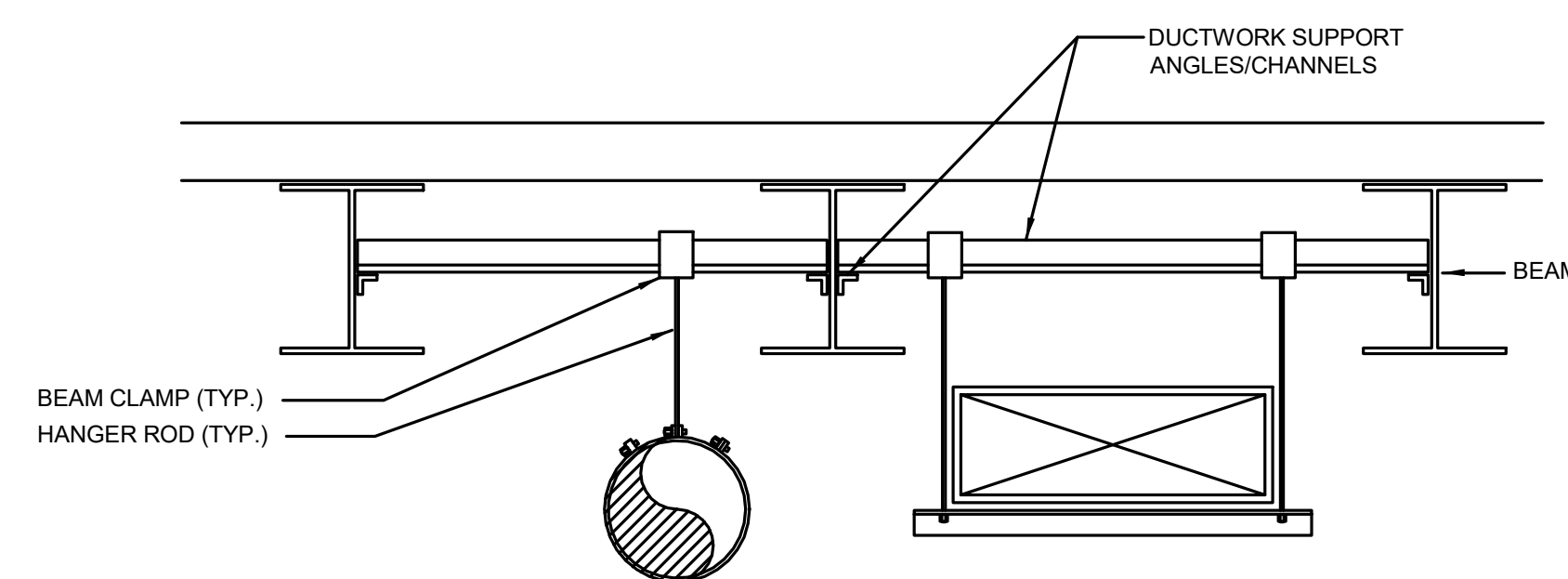
M501



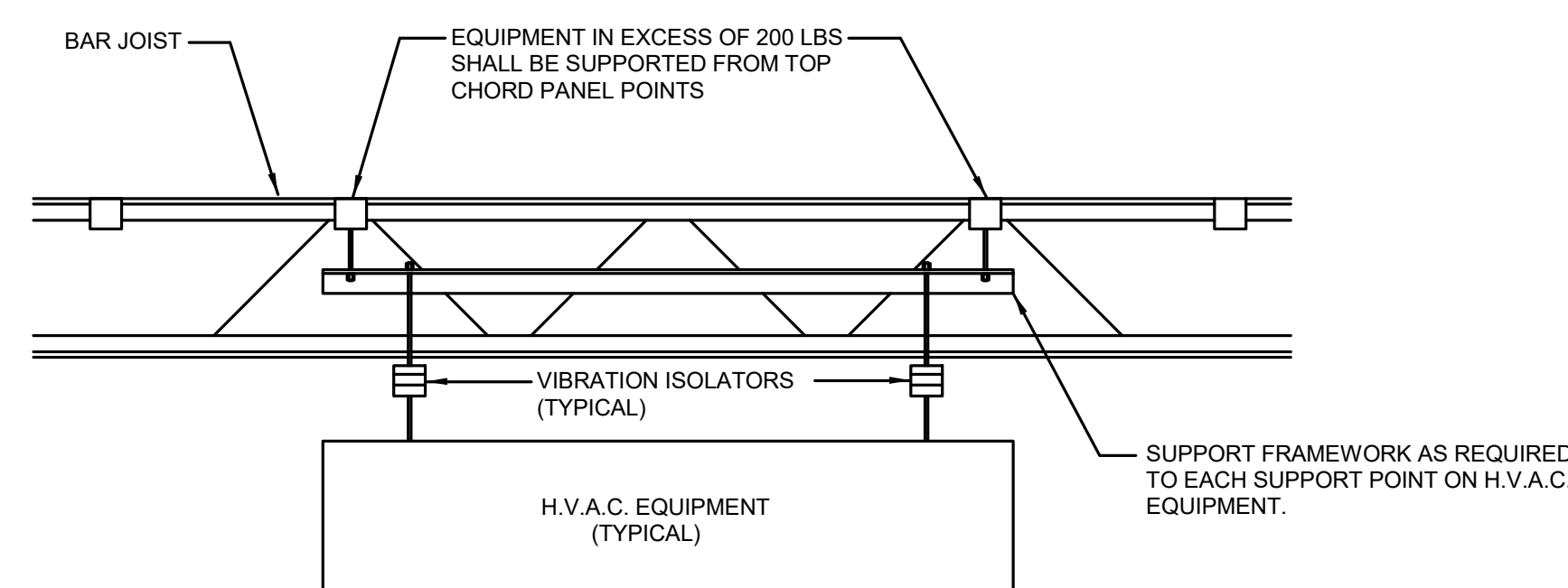
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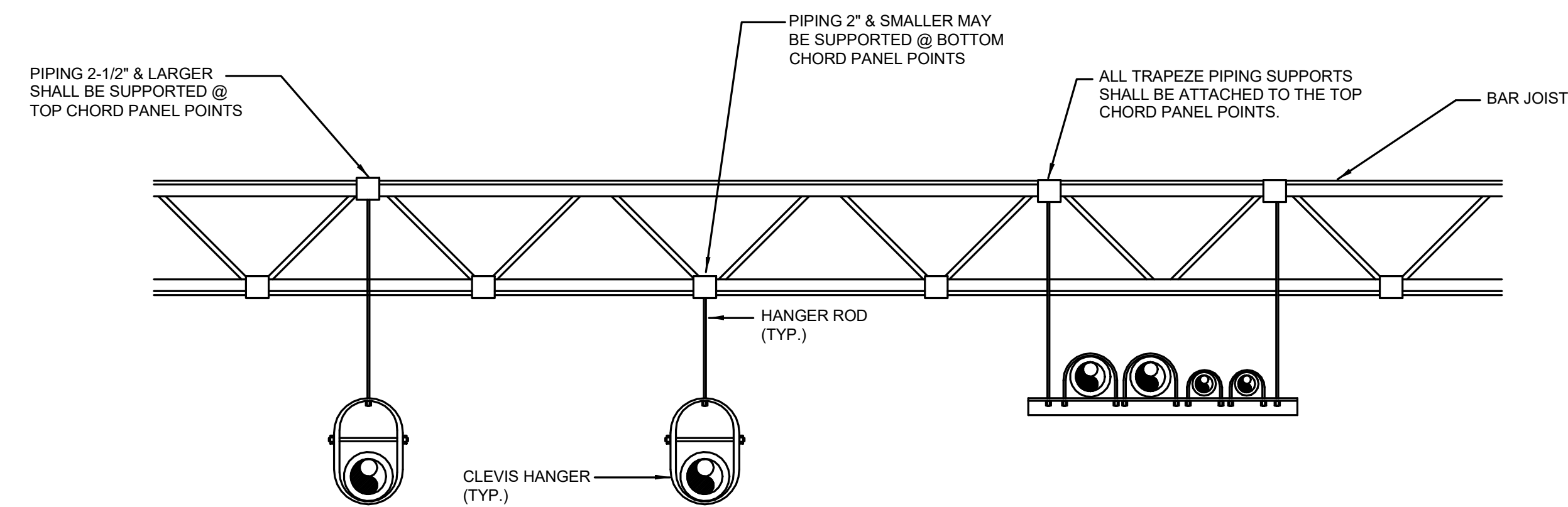
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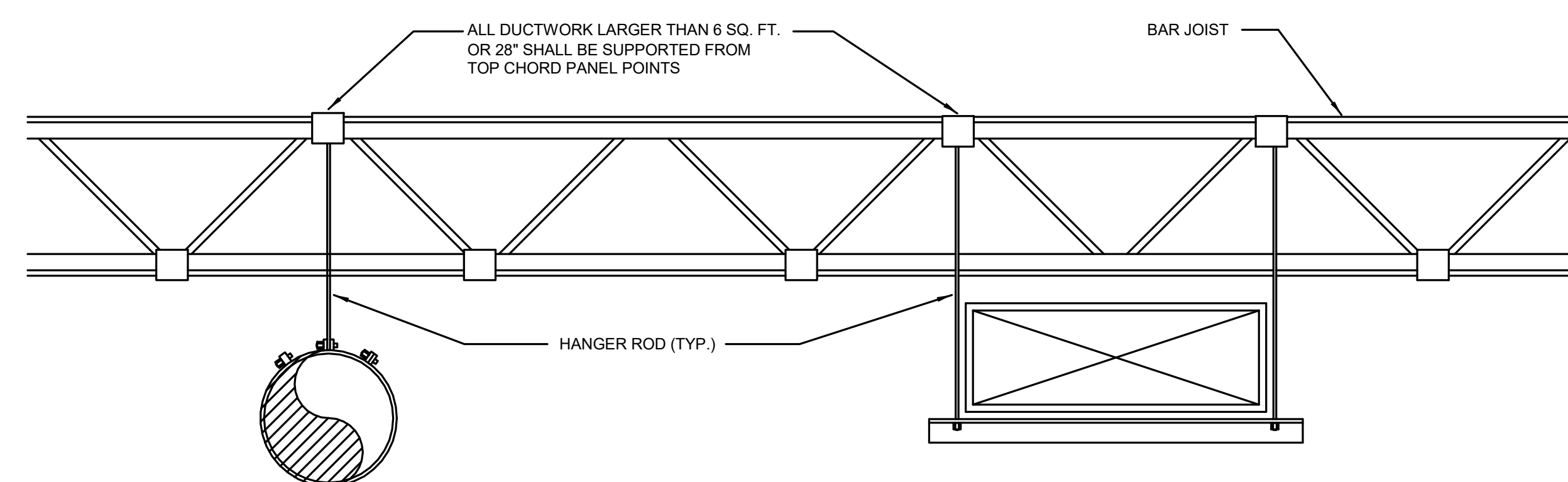
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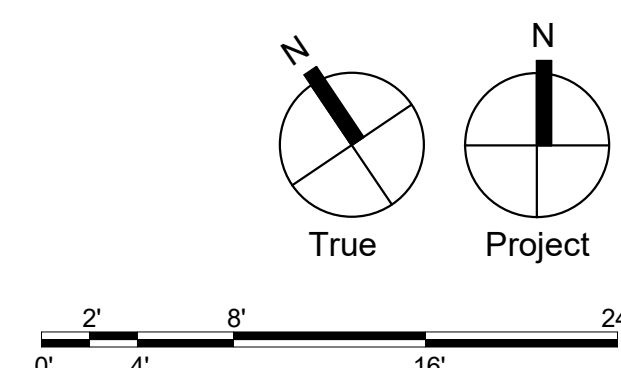
NO SCALE



NO SCALE



NO SCALE



VAV = VAV BOX # = MARK		SHUT-OFF VAV BOX SCHEDULE																		
TAG No.	AREA SERVED	MFR.	MODEL No.	SYSTEM	CFM			INLET DIA."*	INLET APD*	HEATING COIL (ELECTRIC)				ELECTRICAL			DISCHARGE NC LEVEL	RADIATED NC LEVEL	NOTES	
					MIN.	HTG.	MAX.			EAT DB°F	LAT DB°F	KW	STAGES	APD*	MCA	MOP				V/P/Hz
VAV-1.3	C102 CORRIDOR	TRANE	VCEF05	EX RTU-1	75	75	240	05	0.02	55.0	92.9	1.0	1	0.02	3.5	15.0	208/3/60	22	<15	1
VAV-1.4	A102 CLASSROOM	TRANE	VCEF10	EX RTU-1	430	430	760	10	0.02	55.0	91.6	5.0	1	0.02	17.4	20.0	208/3/60	18	15	1
VAV-1.5	A101 CLASSROOM	TRANE	VCEF10	EX RTU-1	430	430	760	10	0.02	55.0	91.6	5.0	1	0.02	17.4	20.0	208/3/60	18	15	1
VAV-1.6	C102 CORRIDOR	TRANE	VCEF05	EX RTU-1	90	90	240	05	0.02	55.0	90.0	1.0	1	0.02	3.5	15.0	208/3/60	22	<15	1
VAV-1.7	A103 CLASSROOM	TRANE	VCEF10	EX RTU-1	430	430	760	10	0.02	55.0	87.9	4.5	1	0.02	15.6	20.0	208/3/60	18	15	1
VAV-1.8	A104 CLASSROOM	TRANE	VCEF12	EX RTU-1	810	810	1,180	12	0.02	55.0	90.0	9.0	1	0.02	31.2	35.0	208/3/60	18	18	1
VAV-1.9	A105 SGI	TRANE	VCEF08	EX RTU-1	210	210	680	08	0.06	55.0	99.9	3.0	1	0.06	10.4	15.0	208/3/60	24	20	1
VAV-1.11	45 OPEN TEAM SPACE, C101 CORRIDOR	TRANE	VCEF08	EX RTU-1	310	310	450	08	0.03	55.0	80.4	2.5	1	0.03	8.7	15.0	208/3/60	17	15	1
VAV-1.12	A108 CLASSROOM	TRANE	VCEF10	EX RTU-1	480	480	760	10	0.02	55.0	91.1	5.5	1	0.02	19.1	20.0	208/3/60	18	15	1
VAV-1.13	A107 CLASSROOM	TRANE	VCEF10	EX RTU-1	480	480	1,080	10	0.03	55.0	91.1	5.5	1	0.03	19.1	20.0	208/3/60	22	21	1
VAV-1.14	A106 CLASSROOM	TRANE	VCEF12	EX RTU-1	800	800	1,320	12	0.03	55.0	90.4	9.0	1	0.03	31.2	35.0	208/3/60	20	19	1
VAV-1.15	36 JAN., 68 SPRINKLER ROOM, C103 CORRIDOR	TRANE	VCEF06	EX RTU-1	300	300	390	06	0.13	55.0	91.7	3.5	1	0.13	12.1	15.0	208/3/60	21	15	1
VAV-1.16	SECOND FLOOR OFFICES	TRANE	VCEF12	EX RTU-1	505	505	1,680	12	0.05	55.0	91.0	6.0	1	0.05	20.8	25.0	208/3/60	23	24	1
VAV-2.1	CAFETERIA LOBBY	TRANE	VCEF06	EX RTU-2	220	220	220	06	0.04	55.0	97.9	3.0	1	0.04	10.4	15.0	208/3/60	16	<15	1
VAV-2.2	C101 CORRIDOR	TRANE	VCEF10	EX RTU-2	300	300	960	10	0.03	55.0	91.7	3.5	1	0.03	12.1	15.0	208/3/60	20	19	1
VAV-2.3	A111 MULTI-PURPOSE CAFETERIA	TRANE	VCEF10	EX RTU-2	1,000	1,000	1,000	10	0.03	55.0	89.6	11.0	1	0.03	38.2	40.0	208/3/60	21	20	1
VAV-2.4	A111 MULTI-PURPOSE CAFETERIA	TRANE	VCEF14	EX RTU-2	1,260	1,260	1,800	14	0.01	55.0	90.0	14.0	1	0.01	48.6	50.0	208/3/60	21	21	1
VAV-2.5	A111 MULTI-PURPOSE CAFETERIA	TRANE	VCEF14	EX RTU-2	1,260	1,260	1,800	14	0.01	55.0	90.0	14.0	1	0.01	48.6	50.0	208/3/60	21	21	1
VAV-2.6	A110 KITCHEN	TRANE	VCEF12	EX RTU-2	675	675	1,720	12	0.06	55.0	90.0	7.5	1	0.06	26.0	30.0	208/3/60	24	24	1
VAV-2.7	A109 KITCHEN STORAGE	TRANE	VCEF08	EX RTU-2	490	490	490	08	0.04	55.0	93.5	6.0	1	0.04	20.8	25.0	208/3/60	19	16	1
VAV-2.8	A001 LOBBY	TRANE	VCEF08	EX RTU-2	400	400	400	08	0.03	55.0	90.4	4.5	1	0.03	15.6	20.0	208/3/60	16	15	1
VAV-2.9	A100 ADMIN, A100.1 COPY/WORK ROOM	TRANE	VCEF08	EX RTU-2	300	300	580	08	0.05	55.0	91.7	3.5	1	0.05	12.1	15.0	208/3/60	21	18	1
VAV-2.10	A112 LEARNING SPECIALISTS	TRANE	VCEF05	EX RTU-2	120	120	240	05	0.02	55.0	93.1	1.5	1	0.02	5.2	15.0	208/3/60	22	<15	1
VAV-2.11	C104 CORRIDOR	TRANE	VCEF05	EX RTU-2	150	150	240	05	0.02	55.0	92.9	2.0	1	0.02	6.9	15.0	208/3/60	22	<15	1
VAV-2.12	A100.5 CONFERENCE	TRANE	VCEF06	EX RTU-2	200	200	400	06	0.14	55.0	94.3	2.5	1	0.14	8.7	15.0	208/3/60	23	15	1
VAV-2.13	A100.3 COUNSELOR	TRANE	VCEF05	EX RTU-2	160	160	280	05	0.02	55.0	92.9	2.0	1	0.02	6.9	15.0	208/3/60	25	<15	1
VAV-2.14	A100.4 PRINCIPAL	TRANE	VCEF08	EX RTU-2	420	420	480	08	0.04	55.0	92.5	5.0	1	0.04	17.4	20.0	208/3/60	19	16	1
VAV-2.15	A201 CLASSROOM	TRANE	VCEF12	EX RTU-2	850	850	1,520	12	0.04	55.0	92.0	10.0	1	0.04	34.7	35.0	208/3/60	22	21	1
VAV-2.16	A202 CLASSROOM	TRANE	VCEF12	EX RTU-2	600	600	1,280	12	0.03	55.0	91.7	7.0	1	0.03	24.3	25.0	208/3/60	20	19	1
VAV-2.17	A206 SGI	TRANE	VCEF06	EX RTU-2	210	210	340	06	0.10	55.0	85.0	2.0	1	0.10	6.9	15.0	208/3/60	20	<15	1
VAV-2.18	A203 CLASSROOM	TRANE	VCEF10	EX RTU-2	500	500	1,180	10	0.04	55.0	92.8	6.0	1	0.04	20.8	25.0	208/3/60	23	23	1
VAV-2.19	A204 CLASSROOM	TRANE	VCEF12	EX RTU-2	600	600	1,280	12	0.03	55.0	91.7	7.0	1	0.03	24.3	25.0	208/3/60	20	19	1
VAV-2.20	A205 CLASSROOM	TRANE	VCEF10	EX RTU-2	520	520	1,240	10	0.04	55.0	91.3	6.0	1	0.04	20.8	25.0	208/3/60	24	23	1
VAV-2.21	C201 CORRIDOR	TRANE	VCEF10	EX RTU-2	500	500	770	10	0.02	55.0	89.6	5.5	1	0.02	19.1	20.0	208/3/60	18	15	1
VAV-2.22	60 OPEN TEAM SPACE	TRANE	VCEF10	EX RTU-2	620	620	620	10	0.01	55.0	93.1	7.5	1	0.01	26.0	30.0	208/3/60	16	<15	1

- NOTES:
- PROVIDE DISCONNECT SWITCH & STEP-DOWN TRANSFORMER FOR CONTROL CIRCUIT.

FAN SCHEDULE														
EF #	EF = EXHAUST FAN # = MARK													
TAG	AREA(S) SERVED	MFR	MODEL	CFM	ESP*	RPM	DRIVE	SONES	MOTOR W / HP	V/P/Hz	CONTROL	DAMPER	WEIGHT LBS	NOTES
EF-3	T102 TOILET	GREENHECK	SP-A90	100	0.1	900	DIRECT	0.3	17.0 W	115/1/60	SWITCH	B.D.D.	12.0	1
EF-4	T103 TOILET	GREENHECK	SP-A90	100	0.1	900	DIRECT	0.3	17.0 W	115/1/60	SWITCH	B.D.D.	12.0	1
EF-5	KITCHEN TOILET	GREENHECK	SP-A90	100	0.1	900	DIRECT	0.3	17.0 W	115/1/60	SWITCH	B.D.D.	12.0	1
EF-6	T204 TOILET	GREENHECK	G-060-VG	100	0.3	1,586	DIRECT	3.8	1/15 HP	115/1/60	ATC	B.D.D.	21.0	1
EF-7	T101 TOILET	GREENHECK	G-060-VG	100	0.3	1,586	DIRECT	3.8	1/15 HP	115/1/60	ATC	B.D.D.	21.0	1
EF-8	T203 TOILET	GREENHECK	G-060-VG	100	0.3	1,586	DIRECT	3.8	1/15 HP	115/1/60	ATC	B.D.D.	21.0	1
EF-9	T201 TOILET, T202 TOILET	GREENHECK	G-080-VG	400	0.3	1,666	DIRECT	8.1	1/10 HP	115/1/60	ATC	B.D.D.	29.0	1
EF-10	32 BOYS TOILET, 33 GIRLS TOILET, SECOND FLOOR TLT	GREENHECK	G-200HP-VG	2,150	2.0	1,284	DIRECT	18.9	2.0 HP	208/1/60	ATC	B.D.D.	164.0	1
EF-11	A110 KITCHEN	GREENHECK	CUE-130-VG	1,920	0.7	1,666	DIRECT	16.5	3/4 HP	115/1/60	ATC	B.D.D.	65.0	1
EF-12	070 MECHANICAL	GREENHECK	SP-A90	100	0.1	900	DIRECT	0.3	17.0 W	115/1/60	ATC	B.D.D.	12.0	1

- NOTES:
- PROVIDE DISCONNECT SWITCH.

ELECTRIC CABINET HEATER SCHEDULE													
TAG	LOCATION	MFR	MODEL	CFM	FAN SPEED	KW	STAGES	EAT	LAT	V/P/Hz	MOUNTING	NOTES	
ECH-1	A111 MULTI-PURPOSE CAFETERIA	BERKO	CUH935	250	HIGH	3.0	1	60.0	98.0	208/1/60	SURFACE MOUNTED	1-3	
ECH-2	A109 KITCHEN STORAGE	BERKO	CUH935	250	HIGH	3.0	1	60.0	98.0	208/1/60	CEILING, FULLY RECESSED	1-4	

- NOTES:
- PROVIDE INTEGRAL DISCONNECT SWITCH & SINGLE POINT POWER CONNECTION.
 - PROVIDE INTEGRAL 2-STAGE THERMOSTAT.
 - HEATER SHALL BE FURNISHED IN WHITE.
 - PROVIDE RECESS TRIM KIT AND ARCHITECTURAL EXTRUDED ALUMINUM GRILLES.

ELECTRIC BASEBOARD RADIATION SCHEDULE											
TAG No.	LOCATION	MFR.	MODEL No.	WATTS	ELEMENT LENGTH	ENCLOSURE			V/P/Hz	MOUNTING	NOTES
						L	W	H			
ER-1	S1 STAIR	BERKO	BKOC2515W	1,250	5'-0"	5'-0"	2'-7/8"	6-3/4"	120/1/60	WALL	1

- NOTES:
- PROVIDE INTEGRAL DISCONNECT SWITCH AND THERMOSTAT.

GRILLE, REGISTER, & DIFFUSER SCHEDULE										
TAG	MFR	MODEL	SIZE	PATTERN	TYPE	MOUNT	FINISH	MAX N.C.	NOTES	
1	TITUS	TDC	9"x9"	6" DIA. NECK 4-WAY	S/A	LAY-IN	BWE	25	1, 2	
2	TITUS	TDC	9"x9"	6" DIA. NECK 2-WAY	S/A	LAY-IN	BWE	25	1, 2	
3	TITUS	TDC	9"x9"	6" DIA. NECK 4-WAY	S/A	LAY-IN	BWE	25	1, 2	
4	TITUS	TDC	12"x12"	10" DIA. NECK 4-WAY	S/A	LAY-IN	BWE	25	1, 2	
5	TITUS	TDC	12"x12"	12" DIA. NECK 4-WAY	S/A	LAY-IN	BWE	25	1, 2	
6	TITUS	TDC	6"x6"	6" DIA. NECK 3-WAY	S/A	SURFACE MOUNT	BWE	25	1, 2	
7	TITUS	ML-38	48"x4"	3/4" SPACING, 2-SLOT, 6" DIA. NECK	S/A	LAY-IN	BWE	25	1, 2	
8	TITUS	ML-38	48"x4"	3/4" SPACING, 4-SLOT, 8" DIA. NECK	S/A	LAY-IN	BWE	25	1, 2	
9	TITUS	ML-38	48"x4"	3/4" SPACING, 4-SLOT, 10" DIA. NECK	S/A	LAY-IN	BWE	25	1, 2	
10	TITUS	PAS	24"x24"	10" DIA. NECK 4-WAY	S/A	LAY-IN	BWE	25	1, 2	
11	TITUS	301FL	10"x8"	3/4" SPACING, 35° DEFLECTION	S/A	SURFACE MOUNT	BWE	25	1, 2	
12	TITUS	301FL	10"x10"	3/4" SPACING, 35° DEFLECTION	S/A	SURFACE MOUNT	BWE	25	1, 2	
13	TITUS	350FL	8"x8"	3/4" SPACING, 35° DEFLECTION	T/A, E/A	SURFACE MOUNT	BWE	25	1, 2	
14	TITUS	350FL	22"x22"	3/4" SPACING, 35° DEFLECTION	T/A	SURFACE MOUNT	BWE	25	1, 2	
15	TITUS	350FL	10"x10"	3/4" SPACING, 35° DEFLECTION	T/A, E/A	SURFACE MOUNT	BWE	25	1, 2	
16	TITUS	350FL	42"x18"	3/4" SPACING, 35° DEFLECTION	T/A	SURFACE MOUNT	BWE	25	1, 2	
17	TITUS	PAR	24"x24"	15"x15" NECK	E/A	LAY-IN	BWE	25	1, 2	
18	TITUS	TDC	9"x9"	6" DIA. NECK 1-WAY	S/A	LAY-IN	BWE	25	1, 2	

- NOTES:
- ALL GRILLES, REGISTERS, AND DIFFUSERS SHALL BE FURNISHED WITH A FRAME STYLE SUITABLE FOR THE MATERIAL IT IS TO BE INSTALLED IN.
 - COORDINATE COLOR WITH ARCHITECT.

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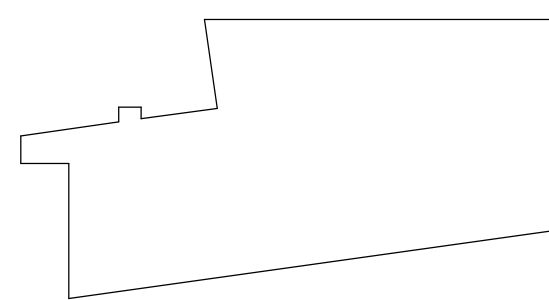
Owner:
**CHESTER UPLAND
SCHOOL DISTRICT**
232 W. 9th Street
Chester, PA 19013

1350 EDMONT AVENUE
RENOVATIONS
1350 EDMONT AVENUE
CHESTER, PA 19013

NO.	DESCRIPTION	DATE
1	BUILDING PERMIT SET ISSUED FOR BIDDING	01/30/2023 01/30/2023

DATE: 01/30/2023
SG PROJECT NUMBER: 22-023.1

Key Plan:



Drawing Title:

COVER SHEET -
ELECTRICAL

Drawing Number:

E000

ELECTRICAL LEGEND	
NOTE: NOT ALL DEVICES SHOWN ON THE LEGEND ARE USED ON THIS PROJECT	
	LED LIGHT FIXTURE (UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCHING GROUP)
	LIGHT FIXTURE WITH EMERGENCY LAMP SOCKET
	INCANDESCENT, LED, FLUORESCENT OR H.I.D. LIGHT FIXTURE
	NORMAL-EMERGENCY LIGHT FIXTURE
	EMERGENCY ONLY LIGHT FIXTURE
	WALL SCONCE
	EXIT SIGN
	EMERGENCY BATTERY UNIT
	REMOTE HEAD
	DOUBLE REMOTE HEAD
	POLE-MOUNTED SITE LIGHT FIXTURE
S	SINGLE POLE SWITCH (LOWER CASE LETTER DENOTES GROUP TO BE SWITCHED)
S _D	DIMMER SWITCH
S _{LV}	LOW VOLTAGE SWITCH
S _T	CAPACITIVE TOUCH SCREEN LIGHTING CONTROL PANEL - PROVIDE PROGRAMMABLE TIME CLOCK INTERFACE TO MEET ENERGY CODE REQUIREMENTS
S ₃	3-WAY SWITCH
S ₄	4-WAY SWITCH
S _F	FAN SWITCH
S _K	KEY SWITCH
S _M	MOMENTARY-CONTACT SWITCH
S _{OR}	OVERRIDE SWITCH
S _P	SWITCH WITH PILOT LIGHT
	OCCUPANCY SENSOR (CEILING-MOUNTED)
	DAYLIGHT SENSOR (CEILING-MOUNTED)
	OCCUPANCY SENSOR (WALL-MOUNTED)
	DUAL-TECH OCCUPANCY SENSOR (CORNER-MOUNTED)
	CORRIDOR OCCUPANCY SENSOR
	ULTRASONIC 360° OCCUPANCY SENSOR (CEILING-MOUNTED)
	UL324 EMERGENCY LIGHTING RELAY
	OCCUPANCY SENSOR CONTROL/POWER PACK
	DIGITAL LIGHTING ROOM CONTROLLER
	DUPLEX CONVENIENCE OUTLET (CT DENOTES COUNTERTOP HEIGHT)
	DUPLEX OUTLET SUSPENDED FROM DROP CORD
	DUPLEX ISOLATED GROUND OUTLET
	DOUBLE DUPLEX (QUADPLEX) OUTLET
	QUADPLEX ISOLATED GROUND OUTLET
	SPECIAL PURPOSE OUTLET
	RANGE OUTLET, 50AMP 3 WIRE
	TELEPHONE OUTLET (POTS LINE)
	TELEPHONE OUTLET (PROVIDE (1) DATA DROP)
	WALL-MOUNTED TELEPHONE OUTLET (PROVIDE (1) DATA DROP)
	COMPUTER OUTLET (NUMBER DENOTES NUMBER OF JACKS WHERE NO NUMBER IS SHOWN, PROVIDE TWO JACKS MINIMUM)
	WIRELESS ACCESS POINT, PROVIDE TWO DATA DROPS IN CEILING OR ON WALL FOR EACH LOCATION INDICATED, FIELD COORDINATE TERMINATION/PLATE TYPE WITH OWNER PROVIDED DEVICE REQUIREMENTS
	A/V INPUT/OUTPUT JACK
	FIBER CONNECTION
	FLATSCREEN INPUT/OUTPUT JACK
	TELEVISION CABLE OUTLET
	BLANK PLATE
	SMARTBOARD
	PROJECTOR PLATE
	FLOOR OUTLET - DUPLEX RECEPTACLE, TELEPHONE AND COMPUTER JACK
	MOTOR
	DISCONNECT SWITCH (FUSED OR NON-FUSED AS INDICATED ON DRAWING)
	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER/DISCONNECT
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH
	MOTOR STARTER
	FRACTIONAL MOTOR STARTER
	POWER POLE
	JUNCTION BOX
	PUSHBUTTON
	START/STOP STATION
	OVERHEAD DOOR OPERATOR (UP, DOWN AND STOP)
	WIRING CONCEALED ABOVE CEILING OR IN WALL, CROSS LINES INDICATE NUMBER OF #12 A.W.G. WIRES IN A 3/4" CONDUIT, GROUND WIRES ARE NOT SHOWN, NO CROSS LINES INDICATE (2)#12 A.W.G., (1)#12 A.W.G. GROUND IN A 3/4" CONDUIT.
	WIRING CONCEALED BELOW GRADE OR FLOOR
	CIRCUIT HOME RUN WITH CIRCUIT NUMBER INDICATED
	NORMAL-EMERGENCY OR EMERGENCY ONLY BRANCH CIRCUIT WIRING
	PLUGMOLD
	TRANSFORMER

	FIRE ALARM PULL STATION
	FIRE ALARM AUDIOVISUAL SPEAKER ALARM DEVICE, # INDICATES CANDELA RATING, WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	FIRE ALARM VISUAL-ONLY ALARM DEVICE, # INDICATES CANDELA RATING, WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	FIRE ALARM BELL
	CEILING-MOUNTED AUDIOVISUAL FIRE ALARM DEVICE, # INDICATES CANDELA RATING, WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	CEILING-MOUNTED AUDIO ONLY FIRE ALARM DEVICE.
	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	SPRINKLER SYSTEM FLOW SWITCH (BY OTHERS)
	SPRINKLER SYSTEM TAMPER SWITCH (BY OTHERS)
	SPRINKLER SYSTEM PRESSURE SWITCH (BY OTHERS)
	RESCUE ASSISTANCE REMOTE CALL STATION
	RESCUE ASSISTANCE MASTER STATION/ANNUNCIATOR PANEL
	SPRINKLER SYSTEM ELECTRIC MOTOR GONG
	DOORBELL
	DOOR HOLDER - FIRE ALARM SYSTEM
	INDIVIDUAL ADDRESSABLE MODULE - FIRE ALARM SYSTEM
	ZONE ADDRESSABLE MODULE - FIRE ALARM SYSTEM
	CONTROL RELAY ZONE ADDRESSABLE MODULE - F/A SYSTEM
	REQUEST-TO-EXIT DETECTOR
	MAG LOCK - DOOR ACCESS CONTROL
	PUSH TO EXIT - DOOR ACCESS CONTROL
	PANIC BUTTON - PROVIDE BUTTON AND WIRING TO COUNTY SYSTEM, COORDINATE FINAL CONNECTION WITH OWNER
	CLOCK, SPEAKER UNIT
	WALL MOUNTED CLOCK - WIRE TO NEAREST 120V CIRCUIT FOR POWER, WIRELESS CORRECTION
	DOUBLE FACE WALL MOUNTED CLOCK - WIRE TO NEAREST 120V CIRCUIT FOR POWER, WIRELESS CORRECTION
	CORD REEL WITH 20A 120V OUTLET
	EXISTING DEVICES TO REMAIN
	MICROPHONE JACK - SOUND SYSTEM
	PUBLIC ADDRESS/INTERCOM SPEAKER (FLUSH, CEILING-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (SURFACE, CEILING-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (SURFACE, WALL-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (FLUSH, WALL-MOUNTED)
	PUBLIC ADDRESS/ INTERCOM VOLUME CONTROL
	INTERCOM DOOR STATION
	INTERCOM MASTER STATION
	MOTION DETECTOR - SECURITY SYSTEM
	CEILING MOUNTED, 360° MOTION DETECTOR
	DOOR MAGNET CONTACT - SECURITY SYSTEM
	SECURITY CAMERA - PROVIDE CAMERA AND (1) DATA DROP
	ALARM HORN - SECURITY SYSTEM
	ELECTRIC DOOR STRIKE
	CARD READER
	KEY PAD
	RESET KEYSWITCH STATION
	PUSH PLATE
	EMERGENCY OFF PUSH-BUTTON
	EMERGENCY KILLSWITCH
	GAS SOLENOID VALVE
	NURSE CALL DOME LIGHT, 'C' INDICATES CEILING MOUNTED
	NURSE CALL AUXILIARY STATION
	NURSE CALL CODE BLUE STATION
	CALL CANCEL BUTTON
	DUTY STATION
	EMERGENCY CALL STATION
	NURSE CALL PATIENT STATION W/ CODE BLUE AND STAFF ASSISTANCE
	NURSE CALL SINGLE PATIENT WALL-MOUNTED PUSH BUTTON STATION
	NURSE CALL PATIENT STATION W/ STAFF ASSISTANCE AND PILLOW SPEAKER
	NURSE CALL PATIENT STATION W/ STAFF ASSISTANCE
	NURSE CALL STAFF STATION W/ CODE BLUE
	NURSE CALL DECENTRALIZED MINI-MASTER TOUCH STATION
	NURSE CALL CONTROL STATION HEAD END
	NURSE CALL MASTER STATION
	NURSE CALL FULL SIZED MASTER STATION
	NURSE CALL PULL CORD STATION
	SLAVE SHOWER BATH STATION WITH PULL CORD
	NURSE CALL STAFF STATION
	NURSE CALL STAFF ASSISTANCE STATION

ELECTRICAL ABBREVIATIONS	
A/a	AMPERE
A.F.F.	ABOVE FINISHED FLOOR
AFI	ARC FAULT INTERRUPTER RECEPTACLE
ARCH.	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUX.	AUXILIARY
A/V	AUDIOVISUAL
AWG.	AMERICAN WIRE GAUGE
BEPS	BUILDING ENTRANCE PROTECTORS
BKR.	BREAKER
CKT.	CIRCUIT
CLG.	CEILING
COND.	CONDUIT
CT	COUNTERTOP
DISC.	DISCONNECT
DN	DOWN
DWG.	DRAWING
E.C.	ELECTRICAL CONTRACTOR
EM.	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER (PROVIDE GROUND FAULT PROTECTION)
EXIST./E.X.E.	EXISTING
F.A	FIRE ALARM
G.C.	GENERAL CONTRACTOR
GEN.	GENERATOR
GFI	GROUND FAULT INTERRUPTER RECEPTACLE
GND.	GROUND
H.C.	HEATING CONTRACTOR
HD	HAND DRYER
HWH	HOT WATER HEATER
IDF	INTERMEDIATE DISTRIBUTION FRAME
MAX.	MAXIMUM
M.C.	MECHANICAL CONTRACTOR
MDF	MAIN DISTRIBUTION FRAME
MIN.	MINIMUM
MTD.	MOUNTED
N/E	NORMAL EMERGENCY
P	POLE
P.C.	PLUMBING CONTRACTOR
PNL.	PANEL
POTS	PLAIN OLD TELEPHONE SERVICE
PTZ	PAN, TILT, ZOOM
S.F.	SQUARE FEET
SW.	SWITCH
TR	TAMPER RESISTANT
TYP.	TYPICAL
U/E	UNDERGROUND ELECTRIC
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
W/	WITH
W/O	WITHOUT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

EQUIPMENT TAG LEGEND	
NOTE: NOT ALL TAGS SHOWN ON THE LEGEND ARE USED ON THIS PROJECT	
	AIR-COOLED CHILLER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	AIR-COOLED CONDENSOR - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	AIR HANDLING UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	AUTOMATIC TEMPERATURE CONTROL DAMPER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	BOILER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	BOOSTER FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CABINET HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONSOLE HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONDENSATE PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	COOLING TOWER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONDENSING UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONSTANT VOLUME BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	DEHUMIDIFICATION UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	DUCTLESS SPLIT SYSTEM - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ELECTRIC CABINET HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ELECTRIC DUCT COIL - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	EXHAUST FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ELECTRIC RADIATION - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	FUME HOOD - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	FAN-POWERED VAV BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	FUEL TRANSFER PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	GAS FURNACE - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	GAS-FIRED UNIT HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	HUMIDIFIER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	HEAT RECOVERY UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	INFRARED HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	MAKEUP AIR UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	PUMP - SUPPLIED AND INSTALLED BY OTHERS, FINAL CONNECTION BY E.C.
	PACKAGED THRU-WALL A/C UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	RETURN AIR FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ROOFTOP UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	SUPPLY FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	SPLIT SYSTEM - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	UNIT HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	UNIT VENTILATOR - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	VARIABLE AIR VOLUME BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	WALL HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	WATER SOURCE HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.

ELECTRICAL GENERAL NOTES	
1.	UNLESS OTHERWISE INDICATED, WIRE SIZES SHALL BE AS FOLLOWS: 20A #12, 30A #10, 40A #8, 50A #6, 70A #4, 100A #1.
2.	LIGHTING LAYOUT IS DIAGRAMMATICAL. E.C. SHALL COORDINATE LIGHTS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND OTHER TRADES AND ADJUST AS REQUIRED.
3.	ALL ROOF AND EXTERIOR-MOUNTED, GROUND-FAULT RECEPTACLES SHALL HAVE LOCKABLE "IN-USE" WEATHERPROOF COVERS. IN ADDITION TO THE WEATHERPROOF GFI RECEPTACLES SHOWN ON THE DRAWINGS, THE E.C. SHALL PROVIDE AND INSTALL (2) ADDITIONAL WEATHERPROOF GFI RECEPTACLES TO BE MOUNTED AS DIRECTED IN THE FIELD BY THE OWNER. EACH OF THE RECEPTACLES SHALL HAVE 50' OF BRANCH CIRCUIT WIRING TO CONNECT TO THE NEAREST AVAILABLE RECEPTACLE CIRCUIT. E.C. SHALL ASSUME COMPLETE CONSTRUCTION DURING THE INSTALLATION OF THESE RECEPTACLES.
4.	E.C. SHALL REFER TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS TO COORDINATE THE ELECTRICAL DEVICE LOCATIONS, WHERE CONFLICTS OCCUR, CONTACT THE ARCHITECT FOR A MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN.
5.	THE E.C. SHALL COORDINATE THE INSTALLATION OF THE DOOR HARDWARE WITH THE G.C. TO INSURE THAT THE DOORS OPERATE PROPERLY. THE E.C. SHALL INCLUDE THE MAGNETIC LOCKS, MAGNETIC DOOR HOLDERS, SECURITY CONTACTS, FIRE DOOR OPERATORS, ETC. PROVIDE ANY NECESSARY INTERFACE DEVICES SUCH AS TRANSFORMERS OR RELAYS AND POWER FEED WIRING AS REQUIRED TO SUIT THE INSTALLATION OR SYSTEM. PROVIDE POWER BRANCH CIRCUIT WIRING FOR ALL ELECTRIC DOOR STRIKES AS REQUIRED.
6.	IN ADDITION TO THE QUANTITIES SHOWN ON THE DRAWING, THE E.C. SHALL PROVIDE AND INSTALL THE FOLLOWING ELECTRICAL EQUIPMENT WHERE DIRECTED IN THE FIELD: (2) OCCUPANCY SENSORS OF EACH TYPE USED ON THE PROJECT AND POWER PACKS FOR SENSORS, (5) DUPLEX RECEPTACLES, (6) DATA OUTLETS, (1) 1" CLOCK, (2) EXIT SIGNS, (2) SMOKE DETECTORS, (2) DUCT DETECTORS EACH WITH REMOTE TEST STATION, (1) MANUAL PULL STATIONS, (2) AUDIOVISUAL DEVICES, (2) VISUAL ONLY DEVICES AND (2) PA SYSTEM CEILING SPEAKER. INCLUDE THE COST OF INSTALLATION WITH UP TO 100' OF SYSTEM WIRING PER DEVICE AND ASSUME INSTALLATION WILL BE AFTER FINISHES ARE COMPLETE AND CEILINGS HAVE BEEN INSTALLED. CONNECT EACH DEVICE TO ITS RESPECTIVE SYSTEM AND INCLUDE THE COST TO REPROGRAM THE OPERATING SYSTEM TO ADD ANY OF THE ABOVE MENTIONED DEVICES. THE E.C. SHALL TURN OVER TO THE OWNER ANY DEVICES THAT ARE NOT UTILIZED ON THE PROJECT AS SPARE PARTS.
7.	THE E.C. SHALL PROVIDE A 4" HIGH CONCRETE PAD UNDER ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT PROVIDED UNDER THE ELECTRICAL CONTRACT. THIS SHALL INCLUDE SWITCHBOARDS, EMERGENCY GENERATOR, AND OTHER ELECTRICAL FLOOR-MOUNTED EQUIPMENT. THE EQUIPMENT MOUNTED ON THE PADS SHALL CONFORM TO THE SEISMIC REQUIREMENTS.
8.	THE E.C. SHALL NOT INSTALL ANY CONDUITS WITHIN ANY OF THE ELEVATED FLOOR SLABS. ANY CONDUITS INSTALLED BELOW THE SLAB ON GRADE SHALL BE INSTALLED IN THE STONE BASE AND NOT WITHIN THE CONCRETE.
9.	GFI RECEPTACLES SHOWN ON DRAWINGS ARE NOT ALL-INCLUSIVE. E.C. SHALL PROVIDE GFI RECEPTACLES IN KITCHEN, SERVING AREAS, AND WHERE LOCATED WITHIN 6FT OF SINK BASINS AS REQUIRED PER THE NEC. E.C. SHALL ALSO PROVIDE ALL ARC-FAULT, TAMPER RESISTANT, WEATHER-RESISTANT, AND GFI RECEPTACLES WHERE REQUIRED BY THE NEC FOR EACH RECEPTACLE LOCATION SHOWN ON THE DRAWINGS AND AS REQUIRED FOR BUILDING TYPE AND OCCUPANCY GROUP.
10.	THE E.C. SHALL VERIFY ROUGH-IN LOCATION FOR ELECTRIC WATER COOLER (EWC) RECEPTACLE WITH P.C. BEFORE DOING ANY WORK. PROVIDE OUTLET, CORD AND PLUG FOR REMOTE CHILLER MOUNTED ABOVE CEILING. PROVIDE GFI-TYPE RECEPTACLES FOR ALL EWCs.
11.	THE E.C. SHALL INCLUDE IN THE ELECTRICAL BID FOR THE POST-CONSTRUCTION ADJUSTMENT OF THE OCCUPANCY SENSORS AS DIRECTED BY THE ARCHITECT OR OWNER. THIS SHALL INCLUDE ADJUSTMENT OF THE TIME AND SENSITIVITY OF THE DEVICES. ALSO INCLUDE THE COST TO RELOCATE (10) SENSORS UP TO 25' IN ORDER TO ELIMINATE FALSE TRIPPING OF THE SENSORS.
12.	ALL NEW RECEPTACLES SHALL BE TAMPER RESISTANT AS REQUIRED BY CODE FOR EDUCATIONAL OCCUPANCY.
13.	DEVICE MOUNTING HEIGHTS AS FOLLOWS: RECEPTACLES 18" ABOVE FINISHED FLOOR TO CENTER OF BOX CT RECEPTACLES 3" ABOVE COUNTERTOP OR 1" ABOVE BACKSPLASH SWITCHES 48" ABOVE FINISHED FLOOR TO TOP OF BOX FIRE ALARM PULL STATIONS THE OPERABLE PART (PULL HANDLE) OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 48" A.F.F. 54" TO CENTERLINE PANELS UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED AUDIOVISUAL OR VISUAL-ONLY DEVICES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" A.F.F. 48" ABOVE FINISHED FLOOR TO TOP OF BOX WALL MOUNTED TELEPHONES

OCCUPANCY SENSOR SCHEDULE					
SYMBOL	MANUFACTURER	MODEL #	COVERAGE AREA SQ. FT.	SENSOR TYPE	ADDITIONAL REMARKS
	WATTSTOPPER	WS-301	900	INFRARED	WALL MOUNTING
	WATTSTOPPER	DT-200	2000	DUAL TECHNOLOGY	WALL OR CEILING MOUNTING
	WATTSTOPPER	DT-300	1000	DUAL TECHNOLOGY	360° CEILING MOUNTING
	WATTSTOPPER	WT-2255	90 LINEAL FEET	ULTRASONIC	CEILING MOUNTED CORRIDOR SENSOR
	WATTSTOPPER	UT-355-2	1000	ULTRASONIC	CEILING MOUNTED

NOTES: DISABLE SMART SET TECHNOLOGY IN ALL SPACES.

"CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OCCUPANCY SENSORS WITH MANUFACTURER PRIOR TO ROUGH-IN"

DEMOLITION NOTES	
1.	UNLESS OTHERWISE INDICATED OR NOTED, ALL ELECTRICAL ITEMS SHOWN ARE TO BE REMOVED. THIS REMOVAL INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS: LIGHTING FIXTURES, RECEPTACLES, JUNCTION BOXES, VARIOUS LOW-VOLTAGE OUTLETS AND JACKS, AND ALL OTHER ELECTRICAL ITEMS SHOWN ON THIS DRAWING. THIS INCLUDES ANY ASSOCIATED BRANCH CIRCUIT OR LOW VOLTAGE WIRING BACK TO ITS SOURCE. THE E.C. IS ALSO RESPONSIBLE FOR THE REMOVAL OF MOUNTING DEVICES, HANGERS, ETC. ASSOCIATED WITH THIS EQUIPMENT.
2.	AN ATTEMPT HAS BEEN MADE TO SHOW ALL THE LIGHTING FIXTURES, RECEPTACLES, JUNCTION BOXES, VARIOUS LOW-VOLTAGE JACKS, AND ALL OTHER ELECTRICAL ITEMS ON THE DEMOLITION DRAWINGS. HOWEVER, THE E.C. SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY AND ALL OF THESE COMPONENTS THAT EXIST IN THE FIELD AND ARE IN THE WAY OF THE NEW CONSTRUCTION.
3.	NO WIRING SHALL BE ABANDONED IN PLACE, IT SHALL BE REMOVED. ALL CONDUIT SHALL BE REMOVED EXCEPT WHERE IT IS BURIED IN MASONRY WALLS AND IN OR BELOW FLOOR SLABS. IN THESE CASES CUT THE ENDS OF THE CONDUIT FLUSH WITH THE WALL OR FLOOR AND FILL WITH PATCHING MATERIALS TO MATCH ADJACENT SURFACES.
4.	THE E.C. SHALL BE RESPONSIBLE FOR RECONNECTING ANY EXISTING DEVICE WHICH IS TO REMAIN ENERGIZED AND HAS BEEN DISCONNECTED DUE TO THE DEMOLITION. PROVIDE ALL WIRINGS AND DEVICES NECESSARY TO RECONNECT.

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SCHOOL DISTRICT
232 W. 9th Street
Chester, PA 19013

1350 EDMONT AVENUE
RENOVATIONS

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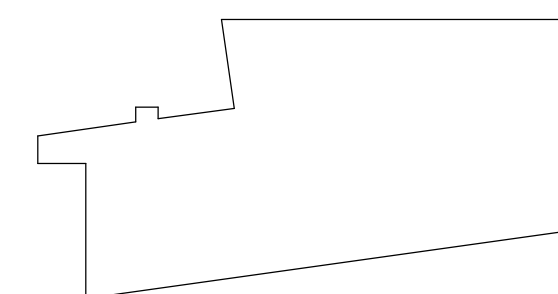
ISSUED FOR:

NO.	DESCRIPTION	DATE
1	BUILDING PERMIT SET	01/30/2023
	ISSUED FOR BIDDING	01/30/2023

DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.1

Key Plan



Drawing Title:

FIRST FLOOR PLAN -
DEMO - ELECTRICAL

Drawing Number:

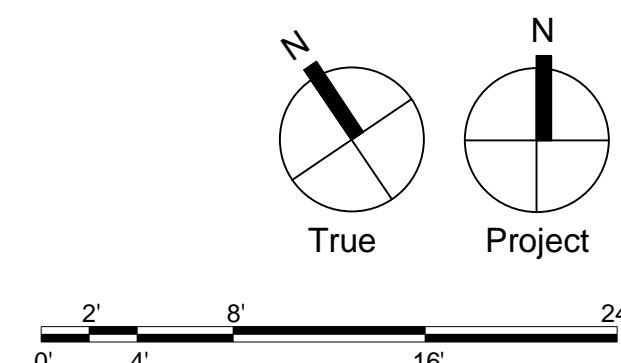
ED101.PH2



ED101.PH2 SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

- 1 EXISTING SMOKE DETECTORS TO BE RELOCATED. REMOVE FROM EXISTING CEILING AND INSTALL IN NEW CEILING. PROTECT EXISTING DURING CONSTRUCTION.
 - 2 EXISTING VAV BOX TO BE REMOVED.
 - 3 EXISTING DUCTLESS SPLIT SYSTEM TO BE REMOVED.
 - 4 EXISTING ELECTRIC BASEBOARD TO BE REMOVED.
 - 5 EXISTING LIEBERT UNIT TO BE REMOVED.
 - 6 EXISTING EXHAUST FAN AND LIGHT TO BE REMOVED.
 - 7 EXISTING EXHAUST FAN TO BE REMOVED.
 - 8 FIELD VAVRY DUCTLESS SPLIT SYSTEM ASSOCIATED WITH CONDENSING UNIT. CONDENSING UNIT SHALL REMAIN IF ASSOCIATED DUCTLESS SPLIT SYSTEM IS DESIGNATED TO BE REMOVED. CONDENSING UNIT SHALL REMAIN IF ASSOCIATED DUCTLESS SPLIT SYSTEM IS DESIGNATED TO BE REMOVED.
 - 9 EXTEND ALL EXISTING LOADS TO REMAIN FROM DEMOLISHED ELECTRICAL PANEL TO NEW PANEL "K2"
 - 10 EXTEND ALL EXISTING LOADS TO REMAIN FROM DEMOLISHED ELECTRICAL PANEL TO NEW PANEL "PPT"
- E.G. TO REMOVE ALL POWER AND DATA THAT MAY EXIST FOR PREVIOUS OCCUPANCY



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1350 EDMONT AVENUE
RENOVATIONS

1330 EDMONT AVENUE
CHESTER, PA 19013

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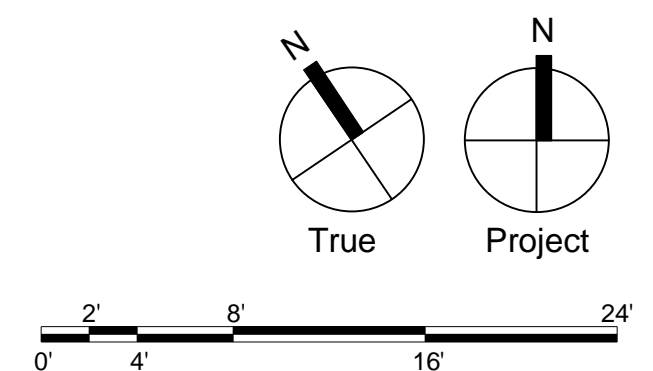
SECOND FLOOR PLAN -
DEMO - ELECTRICAL

ED102.PH2



1 | SECOND FLOOR PLAN - DEMO
ED102.PH2 | SCALE: 1/8" = 1'-0"

- ① EXISTING SMOKE DETECTORS TO BE RELOCATED. REMOVE FROM EXISTING CEILING AND INSTALL IN NEW CEILING. PROTECT DURING CONSTRUCTION.
- ② EXISTING VAV BOX TO BE REMOVED.
- ③ EXISTING DUCTLESS SPLIT SYSTEM TO BE REMOVED.
- ④ EXISTING ELECTRIC BASEBOARD TO BE REMOVED.
- ⑤ EXISTING LIEBERT UNIT TO BE REMOVED.
- ⑥ EXISTING EXHAUST FAN AND LIGHT TO BE REMOVED.
- ⑦ EXISTING EXHAUST FAN TO BE REMOVED.
- ⑧ FIELD VERIFY DUCTLESS SPLIT SYSTEM ASSOCIATED WITH CONDENSING UNIT. CONDENSING UNIT SHALL REMAIN IF ASSOCIATED DUCTLESS SPLIT SYSTEM IS DESIGNATED TO BE REMOVED. IF CONDENSING UNIT IS TO BE REMOVED IF ASSOCIATED DUCTLESS SPLIT SYSTEM IS DESIGNATED TO BE REMOVED.
- ⑨ EXTEND ALL EXISTING LOADS TO REMAIN FROM DEMOLISHED ELECTRICAL PANEL TO NEW PANEL "K2"
- ⑩ EXTEND ALL EXISTING LOADS TO REMAIN FROM DEMOLISHED ELECTRICAL PANEL TO NEW PANEL "K1"
- ⑪ E.C. TO REMOVE ALL POWER AND DATA THAT MAY EXIST FOR PRE-WIRED CUBICLES IN THIS LOCATION.



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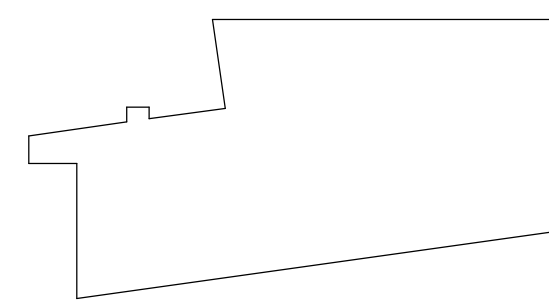
ISSUED FOR:

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DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.1

Key Plan:



Drawing Title:

ROOF PLAN - DEMO -
ELECTRICAL

Drawing Number:

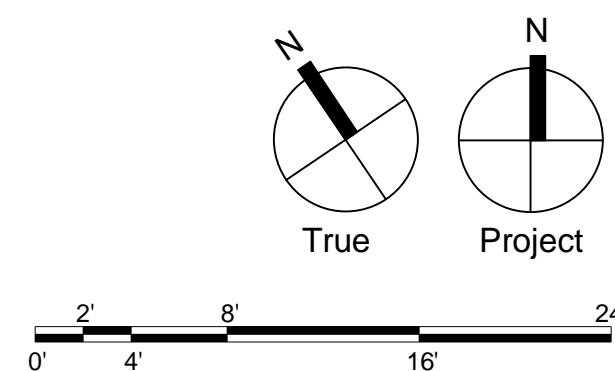
ED103.PH2

1 | ROOF PLAN - DEMO

ED103.PH2 SCALE: 1/8" = 1'-0"

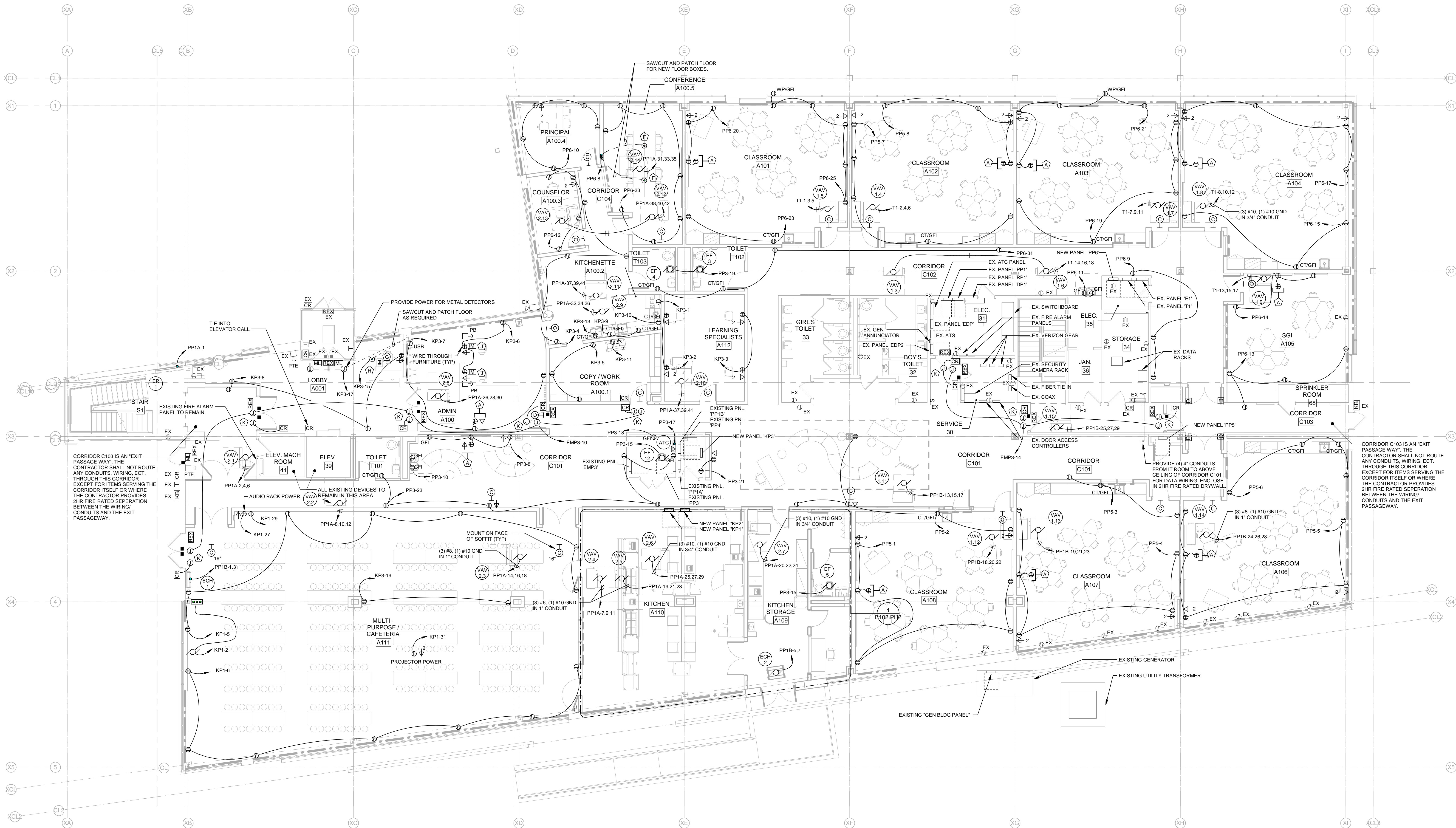
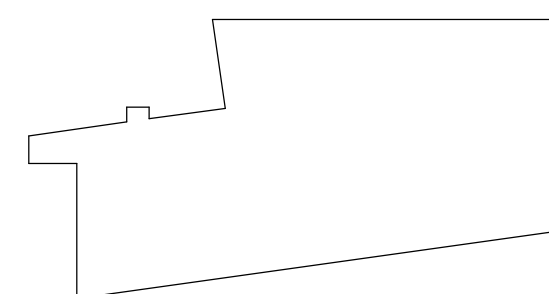
DEMOLITION NOTES

- 1 EXISTING SMOKE DETECTORS TO BE RELOCATED. REMOVE FROM EXISTING CEILING AND INSTALL IN NEW CEILING. PROTECT DEVICE DURING CONSTRUCTION.
- 2 EXISTING VAV BOX TO BE REMOVED.
- 3 EXISTING DUCTLESS SPLIT SYSTEM TO BE REMOVED.
- 4 EXISTING ELECTRIC BASEBOARD TO BE REMOVED.
- 5 EXISTING LIEBERT UNIT TO BE REMOVED.
- 6 EXISTING EXHAUST FAN AND LIGHT TO BE REMOVED.
- 7 EXISTING EXHAUST FAN TO BE REMOVED.
- 8 FIELD VERIFY DUCTLESS SPLIT SYSTEM ASSOCIATED WITH CONDENSING UNIT. CONDENSING UNIT SHALL REMAIN. IF ASSOCIATED DUCTLESS SPLIT SYSTEM IS DESIGNATED TO BE REMOVED, FIELD VERIFY CONDENSING UNIT IS DESIGNATED TO BE REMOVED. IF ASSOCIATED DUCTLESS SPLIT SYSTEM IS DESIGNATED TO BE REMOVED.
- 9 EXTEND ALL EXISTING LOADS TO REMAIN FROM DEMOLISHED ELECTRICAL PANEL TO NEW PANEL "KP2"
- 10 EXTEND ALL EXISTING LOADS TO REMAIN FROM DEMOLISHED ELECTRICAL PANEL TO NEW PANEL "KP2"
- 11 E.C. TO REMOVE ALL POWER AND DATA THAT MAY EXIST FOR PREVIOUS WIRING SCHEMES IN THIS AREA.





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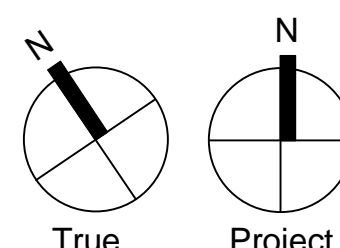


1 | FIRST FLOOR PLAN - POWER

E101.PH2 SCALE: 1/8" = 1'-0"

DRAWING NOTES

- PROVIDE QUAD RECEPTACLE HIGH ON WALL, COORDINATE WITH ARCHITECTURAL ELEVATIONS, PROVIDE DATA DROPS WHEN INDICATED ON PLAN.
- PROVIDE PEDESTAL RECEPTACLE SEE KITCHEN PEDESTAL DETAIL. PROVIDE SAW-CUTTING AND PATCHING OF FLOOR FOR INSTALLATION.
- PROVIDE RETRACTABLE FOOD SERVICE RATED CORD REEL. PROVIDE RECEPTACLE IN CEILING FOR CONNECTION AND MOUNT CORD REEL TO BOTTOM OF CEILING. PROVIDE KITCHEN LEASH MODEL #: KL-152012-D OR EQUAL.
- FIELD VERIFY DUCTLESS SPLIT SYSTEM ASSOCIATED WITH CONDENSING UNIT. CONDENSING UNIT SHALL REMAIN IF ASSOCIATED DUCTLESS SPLIT SYSTEM IS DESIGNATED TO REMAIN. CONDENSING UNIT SHALL BE REMOVED IF ASSOCIATED DUCTLESS SPLIT SYSTEM IS DESIGNATED TO BE REMOVED.
- PROVIDE FLOOR-BOX WITH QUAD RECEPTACLE AND (2) DATA DROPS. PROVIDE 1/2" CONDUIT TO FLOOR BOX FROM ACCESSIBLE CEILING ABOVE FOR DATA. PROVIDE (1) BLANK PLATE IN FLOOR BOX FOR FUTURE A/V INPUTS (TYP.)
- PROVIDE INTERCOM MASTER STATION. PROGRAM FOR FRONT DOOR RELEASE ONLY.
- PROVIDE FLOOR BOX WITH QUAD RECEPTACLE, (2) DATA DROPS AND 1/2" CONDUIT FOR LOW-VOLTAGE WIRING.
- PROGRAM INTERCOM MASTER STATION FOR FRONT DOOR AND OFFICE DOORS RELEASE.
- PROVIDE LOW-VOLTAGE CABLING FOR CONTROL DOOR. REFER TO DETAIL AND SPECIFICATIONS.



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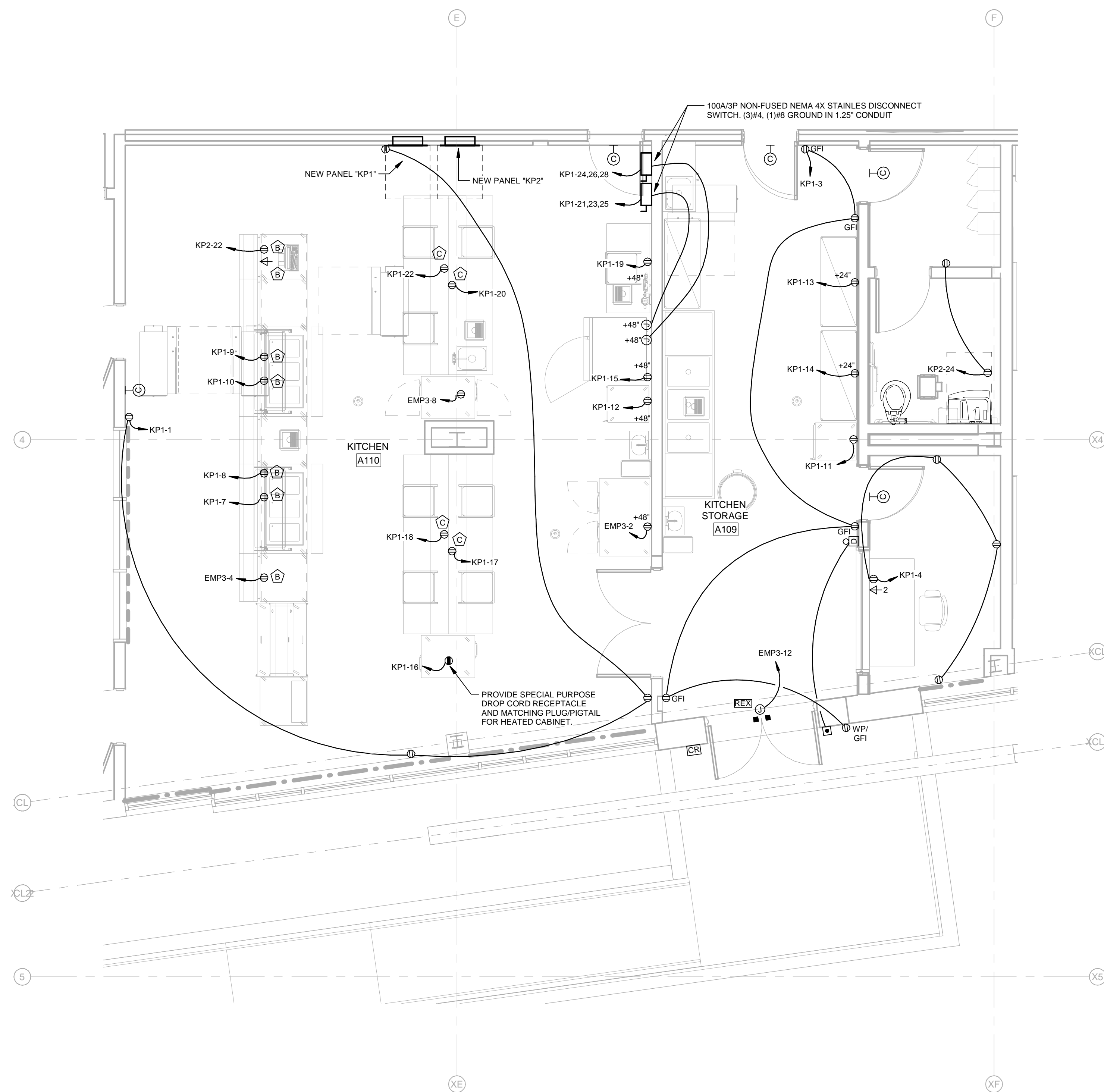
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RENOVATIONS

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CHESTER, PA 19013

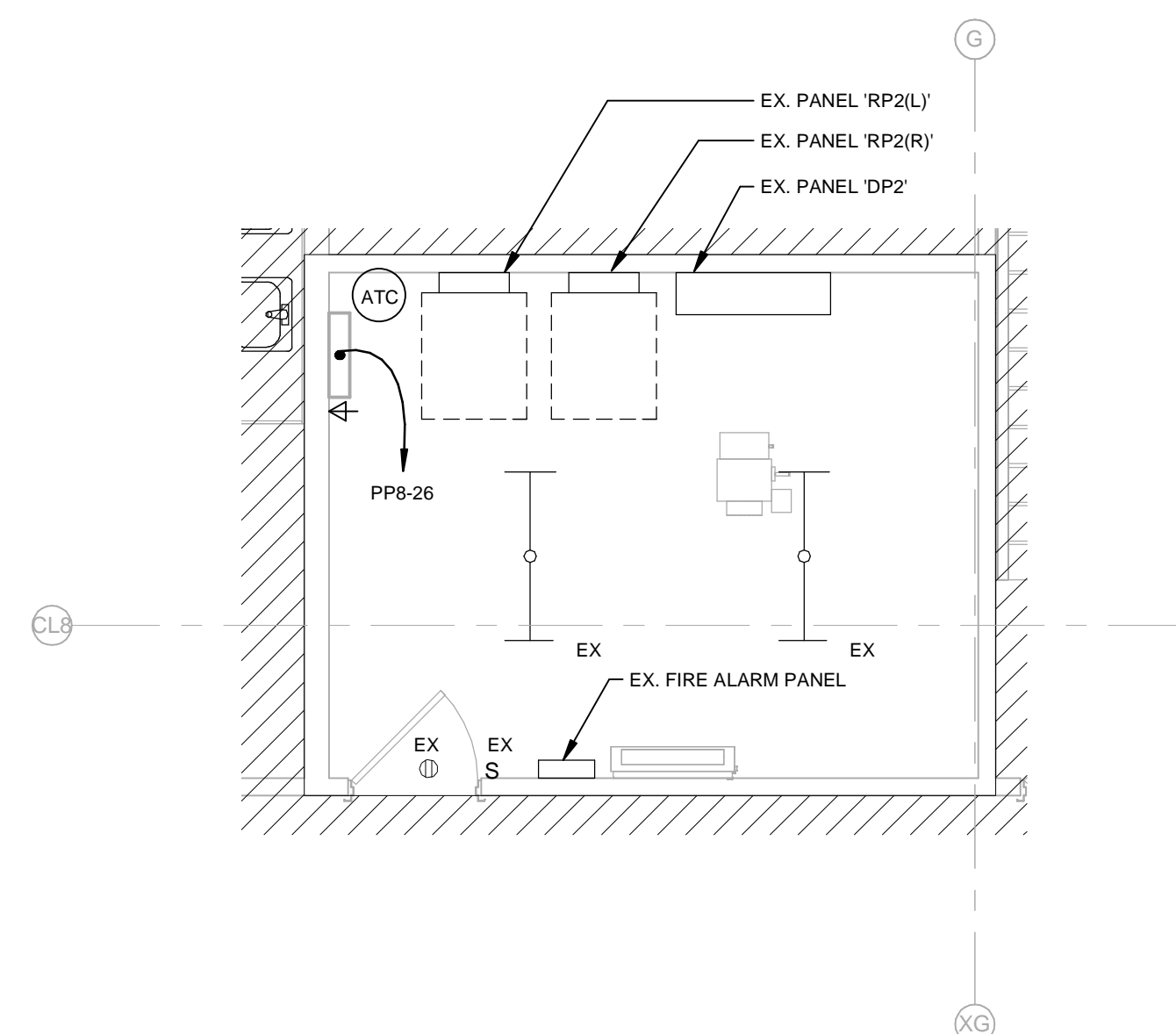
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ENLARGED PLANS - POWER

E102.PH2

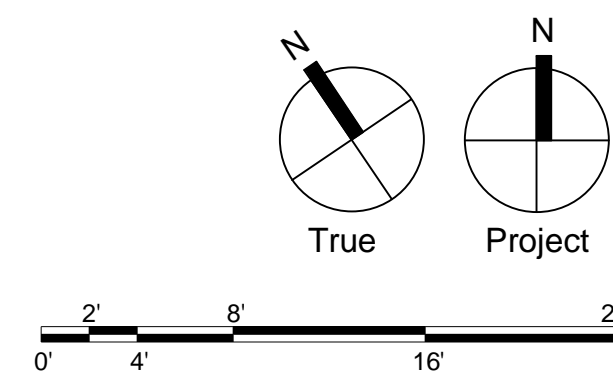


E102.PH2 SCALE: 1/4" = 1'-0"



- PROVIDE QUAD RECEPTACLE HIGH ON WALL. COORDINATE WITH ARCHITECTURAL ELEVATIONS. PROVIDE WIRING TO MATCH EXISTING OR PLAN.
- PROVIDE PEDestal RECEPTACLE SEE KITCHEN PEDestal DETAIL. PROVIDE SAW-CUTTING AND FINISHING OF FLOOR FOR RECEPTACLE.
- PROVIDE RETRACTABLE FLOOR SERVICE RACE TO CORP REEL. PROVIDE RECEPTACLE IN CEILING ABOVE REAR AND REAR RIGHT RECEPTACLE TO BOTTOM OF CEILING. PROVIDE KITCHEN LEASH MODEL K-15L20120 OR EQUAL.
- FIELD VERIFY DUCTLESS SPLIT SYSTEM CONDENSING UNIT TO CONDENSING UNIT TO CONDENSING UNIT SHALL REMAIN IF ASSOCIATED WITH THE DUCTLESS SPLIT SYSTEM. IF THE UNIT IS REMOVED, CONDENSING UNIT SHALL BE REMOVED IF THE DUCTLESS SPLIT SYSTEM IS DESIGNATED TO BE REMOVED.
- PROVIDE FLOOR-BOX WITH QUAD RECEPTACLE AND DUCTLESS SPLIT CONDENSING UNIT TO FLOOR BOX FROM ACCESSIBLE CEILING ABOVE. FOR DATA, PROVIDE 1 BLANK PLATE IN FLOOR BOX AND 1 BLANK PLATE IN REAR BOX.
- PROVIDE INTERCOM MASTER STATION. PROGRAM FOR FRONT DOOR RELEASE ONLY.
- PROVIDE FLOOR BOX WITH QUAD RECEPTACLE. (2) PROVIDE 120V 15A 125°C CONDUIT FOR LOW VOLTAGE WIRING.
- PROGRAM INTERCOM MASTER STATION FOR FRONT DOOR AND OFFICE DOORS RELEASE.
- PROVIDE LOW-VOLTAGE CABLING FOR CONTROL. CONTROL CABLE DETAIL SEE DETAIL 100.

E102.PH2 SCALE: 1/4" = 1'-0"



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SG PROJECT NUMBER:	22-023.1
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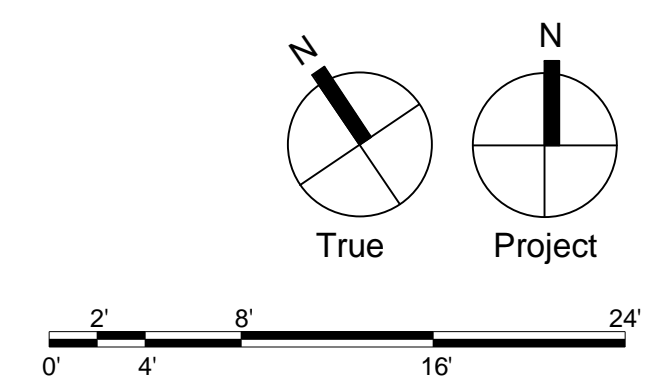
FIRST FLOOR PLAN - LIGHTING

E103.PH2



LIGHTING NOTES

1. CONTRACTOR SHALL INCLUDE PREMIUM FINISHES FOR ALL FIXTURES. FINISHES SHALL BE SELECTED BY THE ARCHITECT DURING SHOP DRAWING REVIEW.
2. CIRCUIT ALL EXIST SIGNS TO NEAREST GENERATOR LIGHTING CIRCUIT. EXIT SIGN CIRCUITING SHALL NOT BE SWITCHED OR CONTROLLED.



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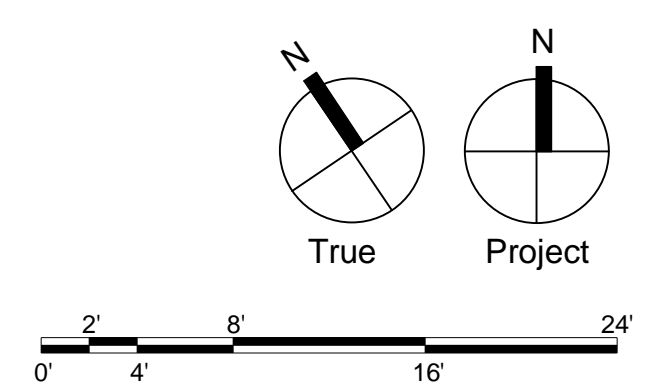
SECOND FLOOR PLAN -
POWER

E104.PH2



E104.PH2 SCALE: 1/8" = 1'-0"

- ④ PROVIDE QUAD RECEPTACLE HIGH ON WALL, COORDINATE WITH ARCHITECTURAL ELEVATIONS. (2) DATA DROP FROM ABOVE.
- ⑤ PROVIDE PEDESTAL RECEPTACLE SEE KITCHEN PEDESTAL DETAIL. PROVIDE SAW-CUTTING AND POLISHED FLOOR.
- ⑥ PROVIDE RETRACTABLE FOOD SERVICE RATED CORD REEL. PROVIDE RECEPTACLE IN CEILING FOR CONNECTION AND MOUNT CORD REEL TO CEILING. PROVIDE RECEPTACLE LEASH MODEL # K-152012 OR EQUAL.
- ⑦ FIELD VERIFY DUCTLESS SPLIT SYSTEM ASSOCIATED WITH REFRIGERATION UNIT. CONDENSING UNIT SHALL REMAIN IF ASSOCIATED WITH REFRIGERATION UNIT IS TO REMAIN. CONDENSING UNIT SHALL BE REMOVED IF FIELD VERIFY DUCTLESS SPLIT SYSTEM IS DESIGNATED TO BE REMOVED.
- ⑧ PROVIDE FLOOR BOX WITH QUAD RECEPTACLE AND (2) DATA DROPS. PROVIDE 125° CONDUIT TO FLOOR FROM ABOVE. PROVIDE 125° CONDUIT FOR DATA. PROVIDE (1) BLANK PLATE IN FLOOR FOR FUTURE ADDITIONAL DATA DROPS.
- ⑨ PROVIDE INTERCOM MASTER STATION, PROGRAM FOR FRONT DOOR RELEASE ONLY.
- ⑩ PROVIDE FLOOR BOX WITH QUAD RECEPTACLE, (2) DATA DROPS AND 125° CONDUIT FOR LOW-VOLTAGE WIRING.
- ⑪ PROGRAM INTERCOM MASTER STATION FOR FRONT DOOR AND OFFICE DOORS RELEASE.
- ⑫ PROVIDE LOW-VOLTAGE CABLING FOR CONTROL POINTS TO BE INSTALLED.



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SECOND FLOOR PLAN - LIGHTING

E105.PH2



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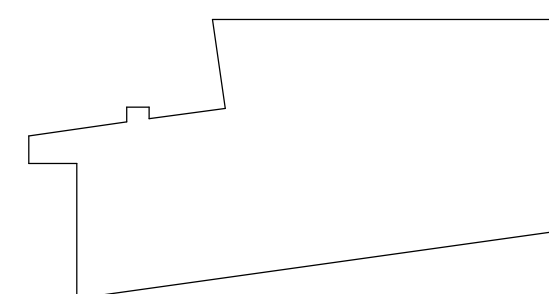
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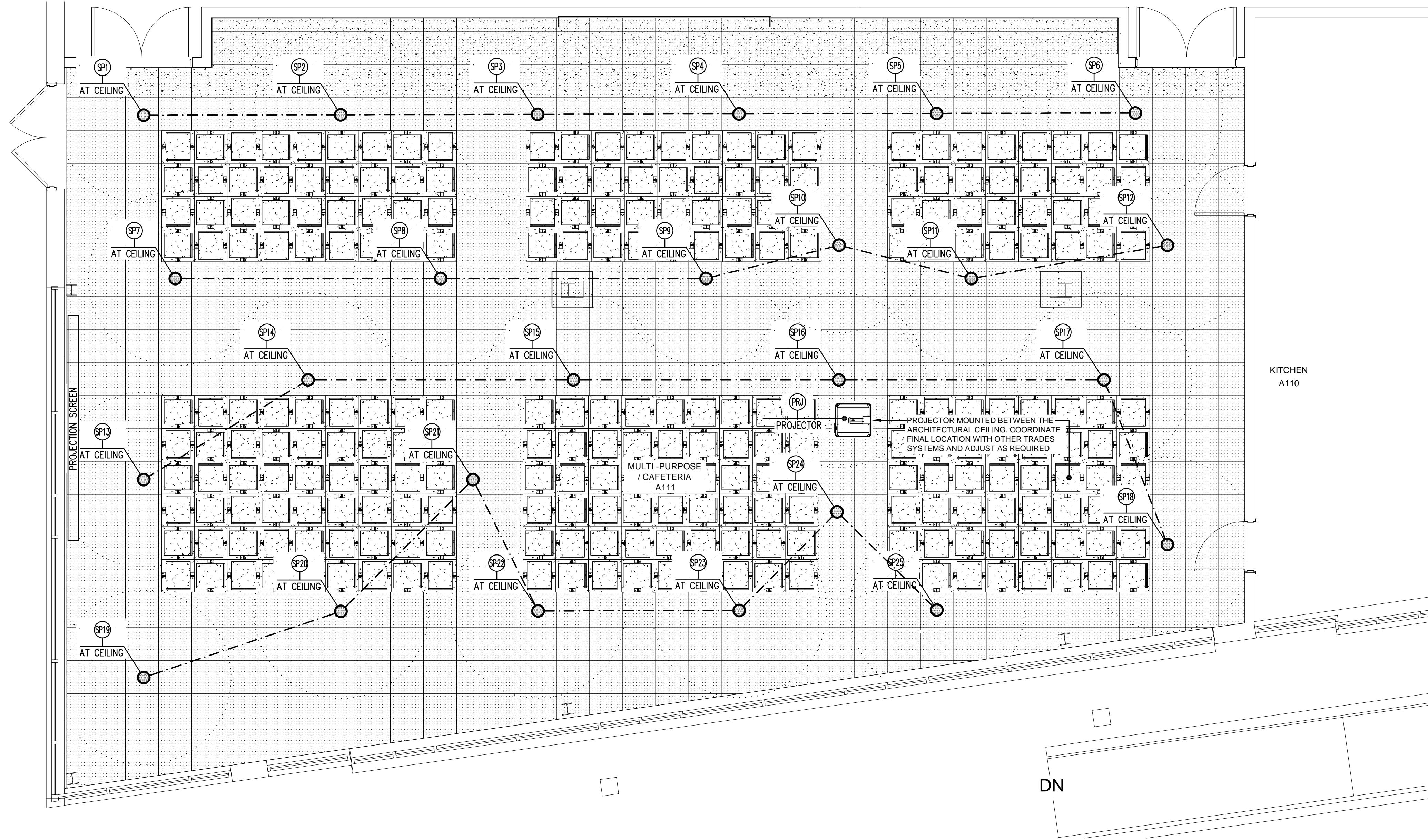


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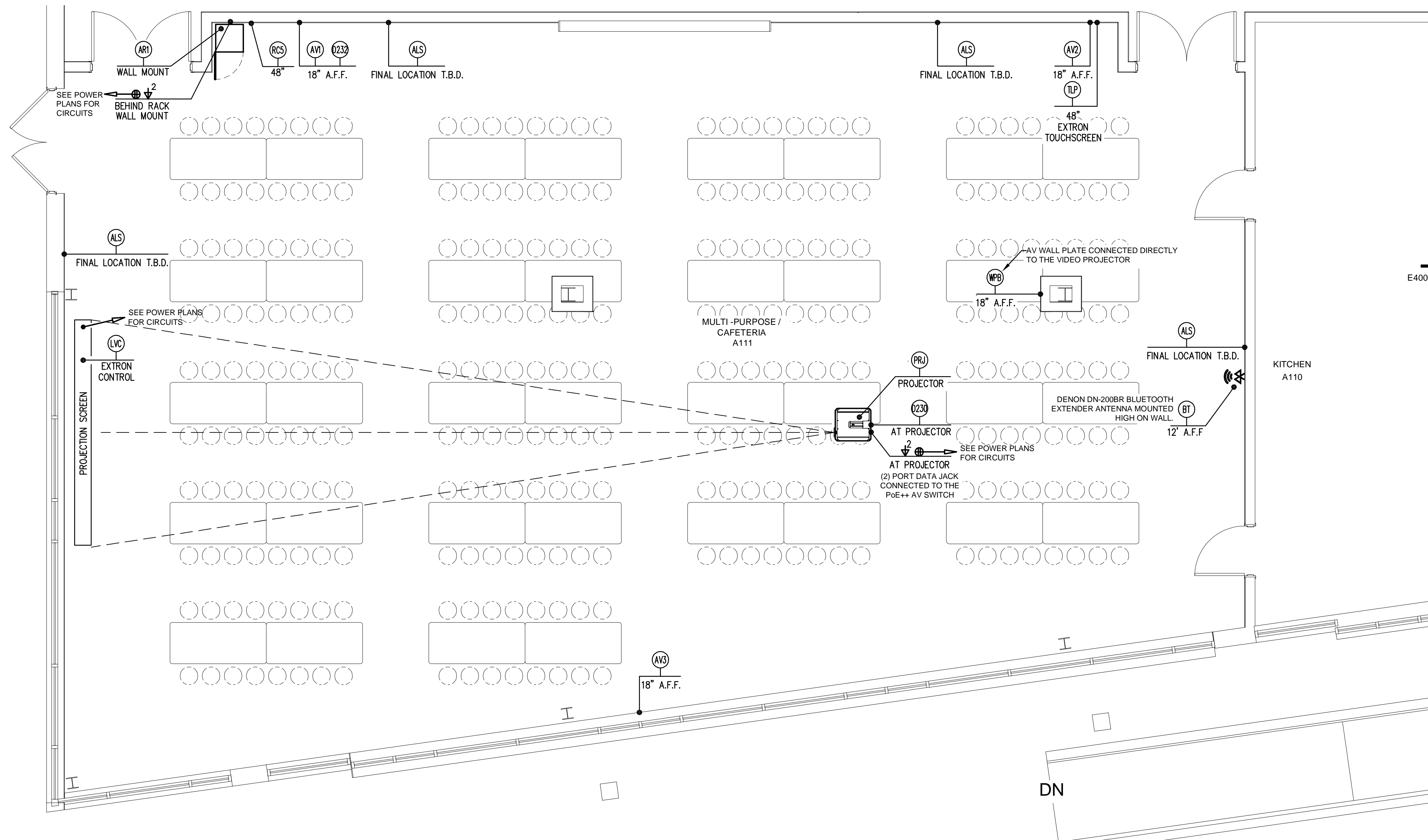
ROOF PLAN - POWER

Drawing Number:

E106.PH2



1 FIRST FLOOR PLAN - MULTI-PURPOSE / CAFETERIA AV SYSTEM - SPEAKER LAYOUT
E400.PH2 SCALE: 1/4" = 1'-0"



1 FIRST FLOOR PLAN - MULTI-PURPOSE / CAFETERIA AV SYSTEM - DEVICE LAYOUT
E400.PH2 SCALE: 1/4" = 1'-0"

SPEAKER MOUNTING NOTES:

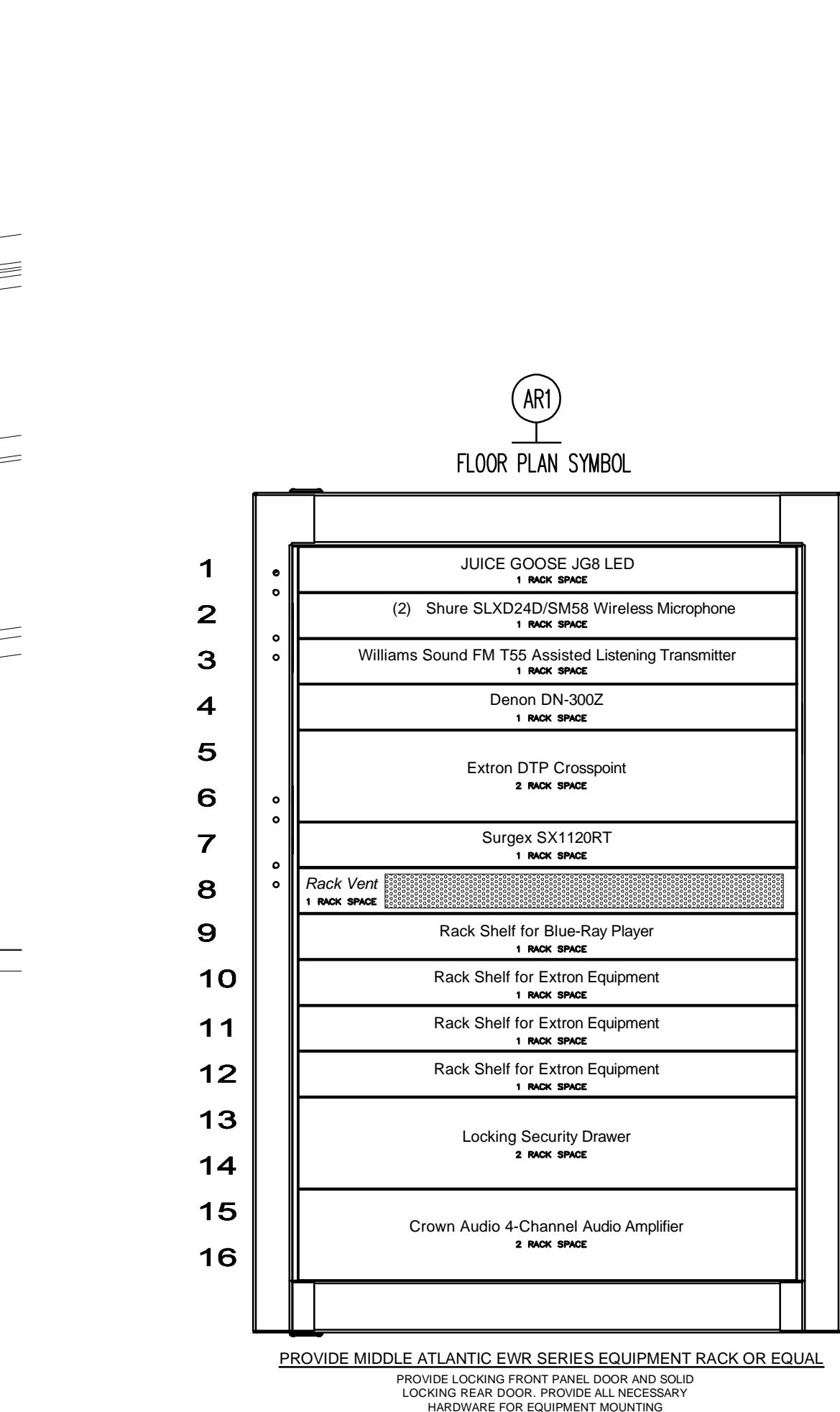
1. PROVIDE NECESSARY SUSPENSION AND MOUNTING HARDWARE AS REQUIRED PER MANUFACTURERS RECOMMENDATIONS FOR PROPER AND SAFE MOUNTING OF THE SPEAKERS.
2. IF NECESSARY, PROVIDE EXPOSED SURFACE MOUNTED JUNCTION BOXES AND CONDUIT FOR SUSPENDED SPEAKERS. PAINT JUNCTION BOXES AND CONDUIT TO MATCH ADJACENT AREAS.
3. SPEAKER COLOR SHALL BE WHITE. ALL VISIBLE BRACKETS AND MOUNTING HARDWARE SHALL MATCH THE SPEAKER COLOR.

WIRING DIAGRAM NOTES:

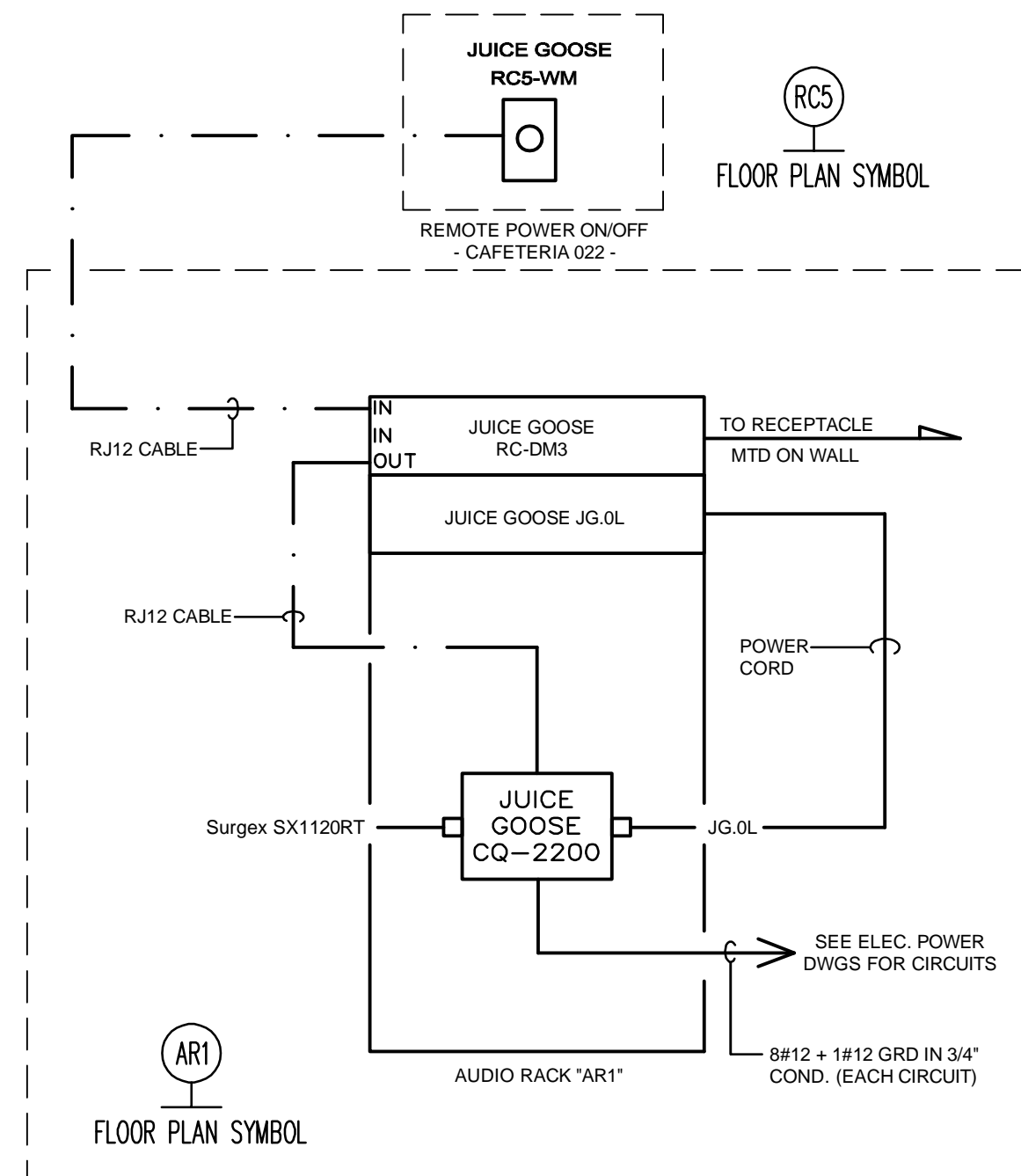
1. WIRING DIAGRAM SHALL BE USED AS A GENERAL GUIDE FOR WIRING AND ASSEMBLY OF THE SYSTEM AND MAY NOT SHOW ALL EQUIPMENT THAT NEEDS TO BE PROVIDED. EQUIPMENT LOCATIONS AND TYPES TO BE PROVIDED ARE SHOWN ON THE FLOOR PLANS.
2. THE EQUIPMENT MANUFACTURERS LATEST PUBLISHED SPECIFICATIONS SHALL BE CONSIDERED AS PART OF THIS DESIGN.
3. THE CONTRACTOR SHALL FURNISH CONDUIT, WIRE, CONNECTORS, HARDWARE AND ALL OTHER INCIDENTAL ITEMS NECESSARY FOR COMPLETE AND PROPER OPERATION OF THE AV SYSTEM REGARDLESS IF SHOWN OR SPECIFIED.

AV GENERAL NOTES:

1. A/V DRAWINGS ARE DIAGNMMATIC. THEY ARE INTENDED TO SHOW APPROXIMATE LOCATIONS OF EQUIPMENT AND CONDUIT. DIMENSIONS GIVEN ON THE PLANS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED IN THE FIELD. THE CONTRACTOR SHALL LAYOUT ALL EQUIPMENT ROOMS TO MAKE SURE THE EQUIPMENT AS PURCHASED - FITS IN THE ROOM OR SPACE SHOWN AND HAS ALL CLEARANCES REQUIRED BY THE NEC. EXACT LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD AND ROUTING OF CONDUITS SHALL SUIT FIELD CONDITIONS.
2. THE A/V DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER. MATERIAL AND LABOR NECESSARY TO THE PROJECT SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT OBVIOUSLY NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEM, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES, BUT NOT LIMITED TO ALL WIRING, SUPPLEMENTAL EQUIPMENT AND PROGRAMMING OF THE SYSTEM FOR FULLY FUNCTIONAL SYSTEM.
3. IF APPLICABLE, INSTALL EMPTY CONDUIT AS INDICATED ON THE DRAWINGS. CONDUIT SHALL BE COMPLETE WITH JETLINE OR FULL STRING, JUNCTION BOXES, TIE RINGS AND APPROPRIATE COVER PLATES.
4. SEE ELECTRICAL POWER DRAWINGS FOR POWER CIRCUIT DESIGNATIONS FOR RECEPTACLES & JUNCTION BOXES IF NOT SHOWN ON THE A/V DRAWINGS.
5. SPEAKERS LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL INSTALL EACH SPEAKER CLOSE TO THE LOCATION SHOWN, BUT SHALL COORDINATE THE LOCATIONS TO AVOID LIGHTING FIXTURES OR OTHER TRADES EQUIPMENT.
6. ALL AUDIO AND VIDEO CABLES SHALL BE PLENUM RATED CABLE.
7. PROVIDE ALL NECESSARY BACK-BOXES TO ACCOMMODATE THE REQUIRED A/V INPUTS. SEE MOUNTING HEIGHTS ON THE PLANS. COORDINATE THE PLACEMENT OF THE A/V BACK-BOXES WITH POWER & DATA BACK-BOXES.



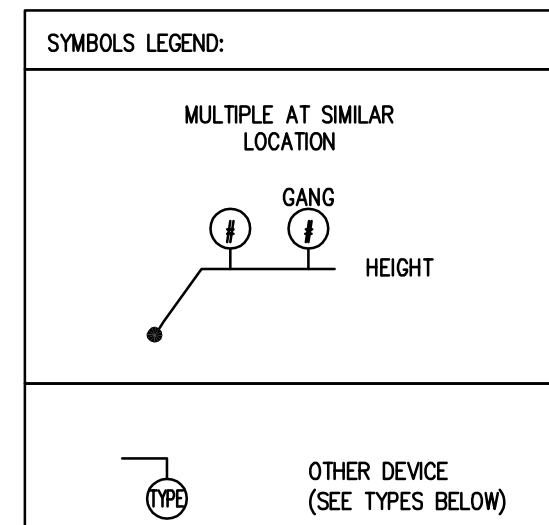
3 AR1 - MULTI-PURPOSE / CAFETERIA AUDIO RACK ELEVATION
E400.PH2 SCALE: 1/4" = 1'-0"



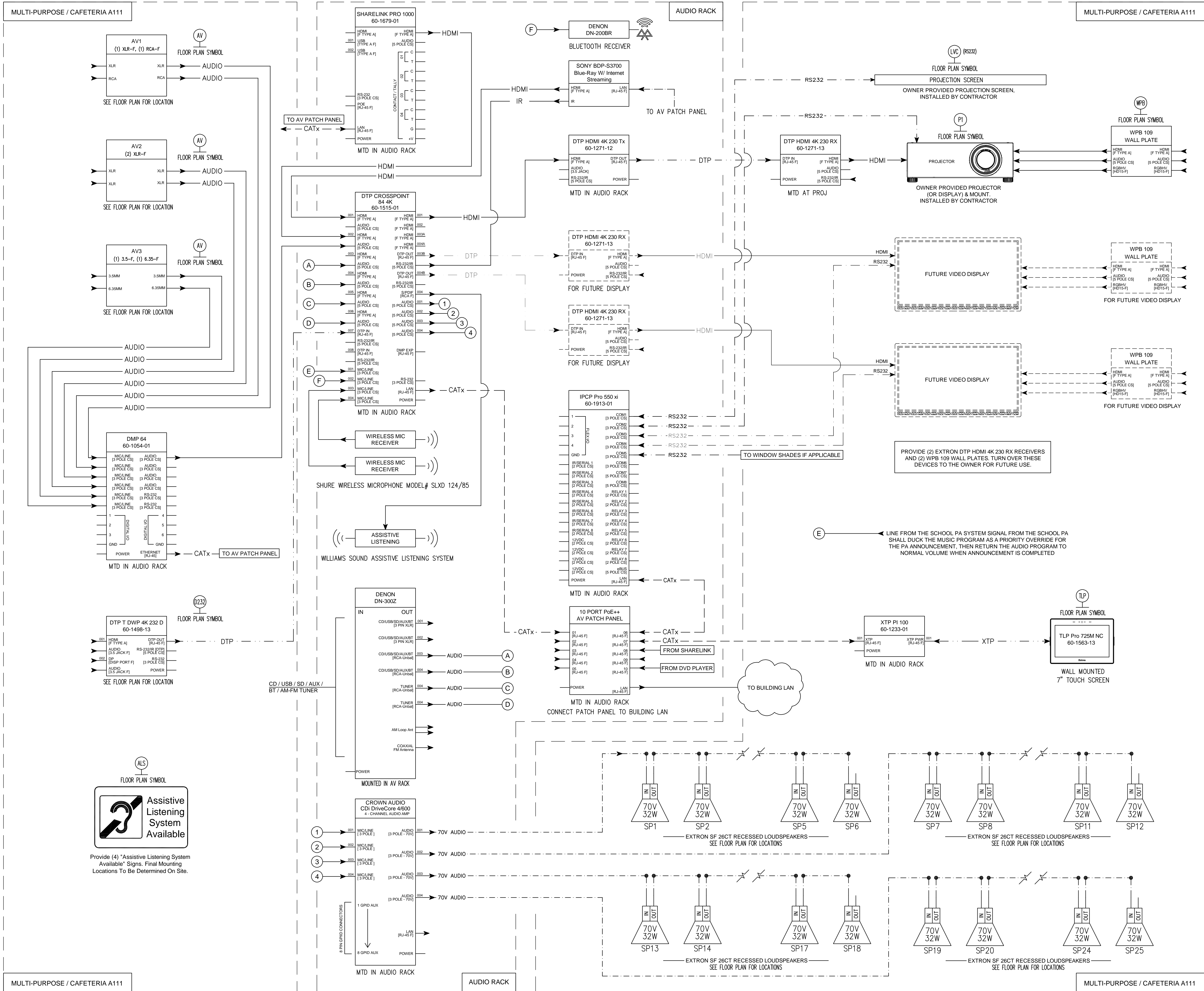
3 AR1 - POWER WIRING DIAGRAM
E400.PH2 SCALE: None

CABLE LEGEND	
TYPE	DESCRIPTION
AUDIO	22 AWG 2 COND, SHIELDED, PLENUM
AXLINK	AMX AXLINK CABLE OR APPROVED EQUIVALENT
CAT5e	CAT5e, UNSHIELDED, PLENUM
CAT6 SHIELDED	CAT6, SHIELDED, PLENUM
EXTRON	EXTRON OR EXTRON APPROVED EQUIVALENT
CONTROL	22 AWG 4 COND, SHIELDED, PLENUM
IR EMITTER	IR EMITTER CABLE
FIBER OPTIC	FIBER OPTIC (SPECIFY IN DESCRIPTION)
PREMADE CABLE	SPECIFIED BELOW EACH LABEL
POWER (TYP. LOW VOLTAGE)	16 AWG 2 COND, UNSHIELDED, PLENUM
RF ANTENNA	RG58/RG11 (SPECIFY IN DESCRIPTION)
RG6 VIDEO	RG6, 20 AWG CENTER W/ COPPER SHIELD
RG6 FOR CATV/MATV	RG6, 20 AWG CENTER W/ ALUMINUM SHIELD
SDI DIGITAL VIDEO	RG6, DIGITAL COAX CABLE, PLENUM
70V SPEAKER	16 AWG 2 COND, UNSHIELDED, PLENUM
LOW IMPEDANCE SPEAKER	14 AWG 2 COND, 19/27 BARE COPPER, UNSHIELDED PLENUM
EXTRON XTP	EXTRON XTP CABLE OR APPROVED EQUIVALENT

MOUNTING HEIGHTS:	
RECEPTACLES	18" ABOVE FINISHED FLOOR TO CENTER OF BOX (UNLESS NOTED OTHERWISE)
SWITCHES	48" ABOVE FINISHED FLOOR TO CENTER OF BOX
REMOTE ANTENNA	AS HIGH AS POSSIBLE ON THE WALL OR ABOVE DROP CEILING - NOTED ON PLANS
CT RECEPTACLES	3" ABOVE COUNTERTOP OR 1" ABOVE BACKSPLASH



SYMBOL TYPES:	
VM	VIDEO MONITOR
DTP(F)	EXTRON DTP R HWP 4K 331 D
ANT	ANTENNA (SHURE REMOTE ANT)
AVL(F)	AV WALL PLATE CONNECTION
CAM	CAMERA
CAV	CEILING LCD
HDI(F)	HDMI-F
FB	FLOOR BOX
KEY	KEYPAD
LCD	LCD DISPLAY
LVC	SCREEN LVC (AV SYSTEM CONTROL)
LVS	SCREEN SWITCH
MIC	MICROPHONE
PH	PHONE
OCS	OCCUPANCY SENSOR
OFR	FLOOR RACEWAY
PRJ	PROJECTOR
PS	PARTITION SENSOR
PTH	POKE THRU
AR(F)	AUDIO RACK
RS	ROOM SCHEDULER
SP(F)	SPEAKER
VA	VOLUME ATTENUATOR
TLP	TOUCH PANEL (EXTRON TLP PRO 102SM)
TV	CATV DROP
WP	WALL PLATE
PLS	PILOT LIGHT SWITCH
BT	BLUETOOTH REMOTE ANTENNA
TEC	BIAMP REMOTE CONTROL
RCS	REMOTE RACK POWER ON/OFF
WRI	ASHLY REMOTE AUDIO CONTROL
NOTE: NOT ALL TYPES MAY BE USED ON THIS PROJECT	



1 | MULTI-PURPOSE / CAFETERIA AV SYSTEM - WIRING DIAGRAM
E401.PH2 SCALE: None

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Address
Contact

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JEFFREY RYAN MACHIK
REGISTERED PROFESSIONAL
ENGINEER
PE083197
PENNSYLVANIA

Owner:
CHESTER UPLAND
SCHOOL DISTRICT
232 W. 9th Street
Chester, PA 19013

1350 EDMONT AVENUE
RENOVATIONS

1350 EDMONT AVENUE
CHESTER, PA 19013

ISSUED FOR:		
NO.	DESCRIPTION	DATE
1	BUILDING PERMIT SET	01/30/2023
2	ISSUED FOR BIDDING	01/30/2023
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Key Plan:
True
Project

Drawing Title:
FIRST FLOOR PLAN -
MULTI-PURPOSE /
CAFETERIA AV SYSTEM
DETAILS
Drawing Number:
E401.PH2

Civ

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Structural Engineer

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Professional Seal



Owner:
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SCHOOL DISTRICT
232 W. 9th Street
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1350 EDMONT AVENUE
RENOVATIONS

1350 EDMONT AVENUE
CHESTER, PA 19013

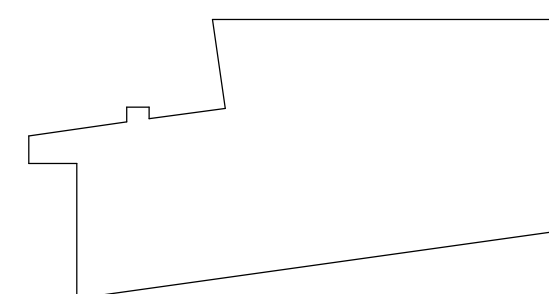
ISSUED FOR:

[illegible]

DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.

Key Plan

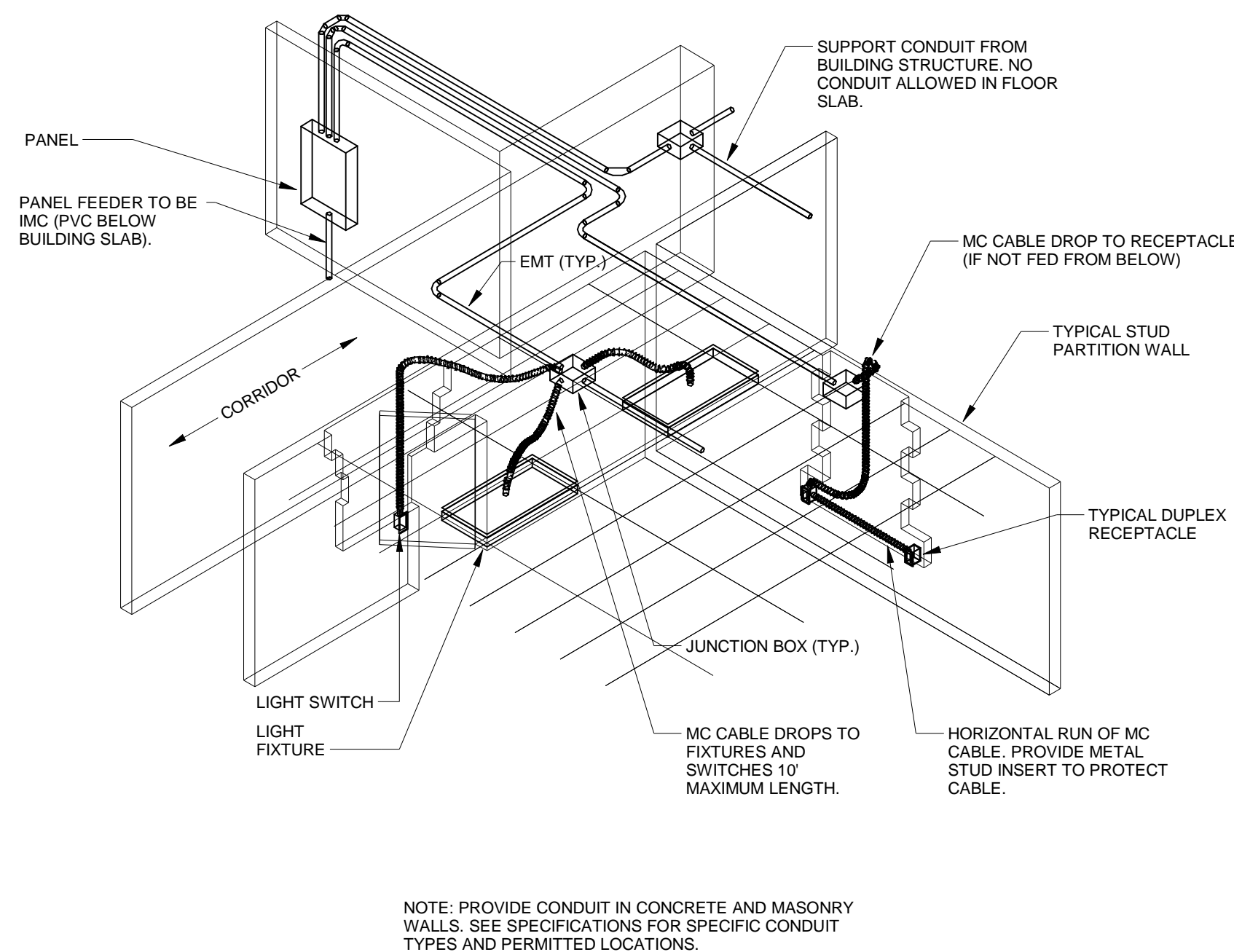


Drawing Title:

SINGLE LINE
ELECTRICAL

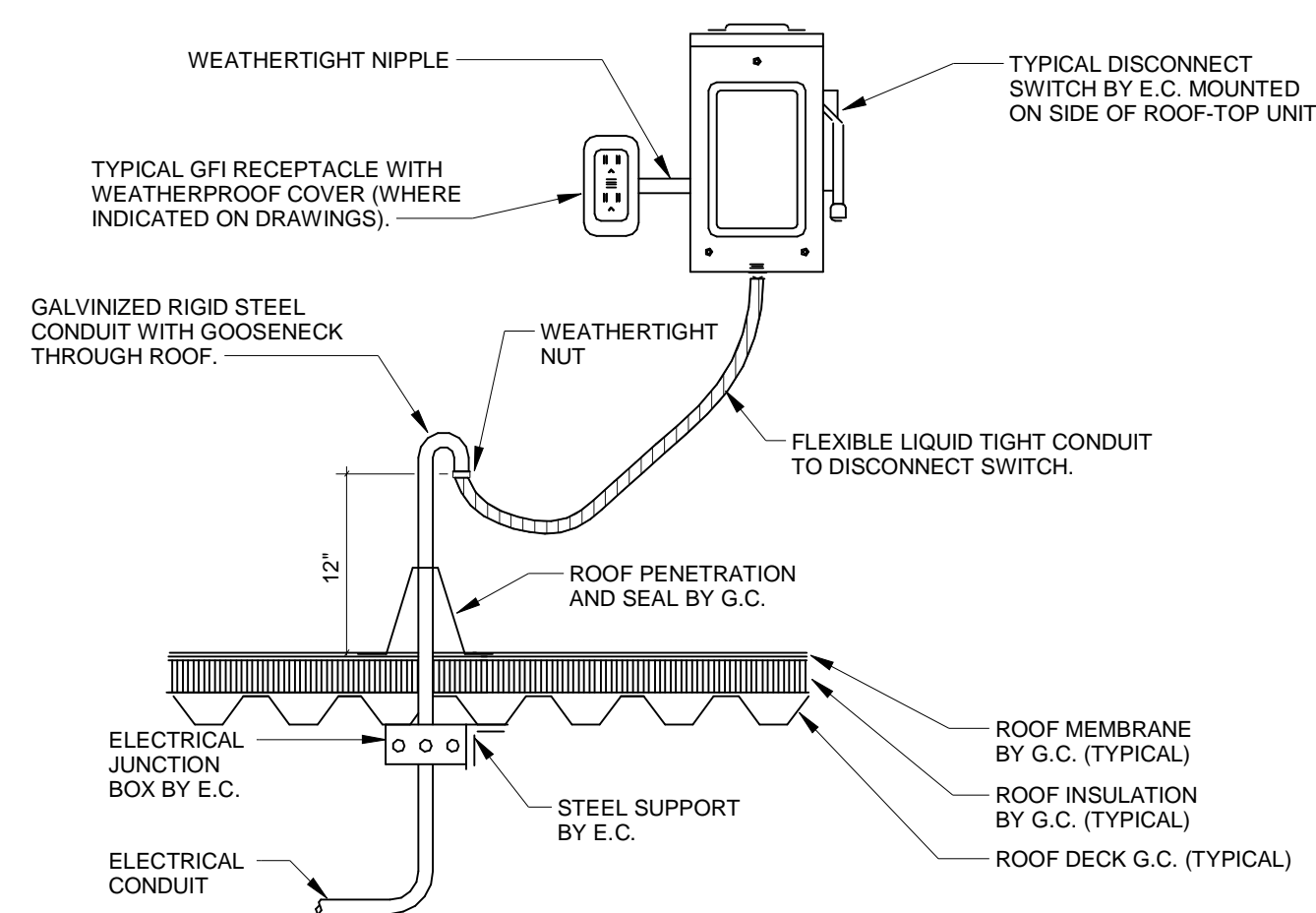
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E600.PH2



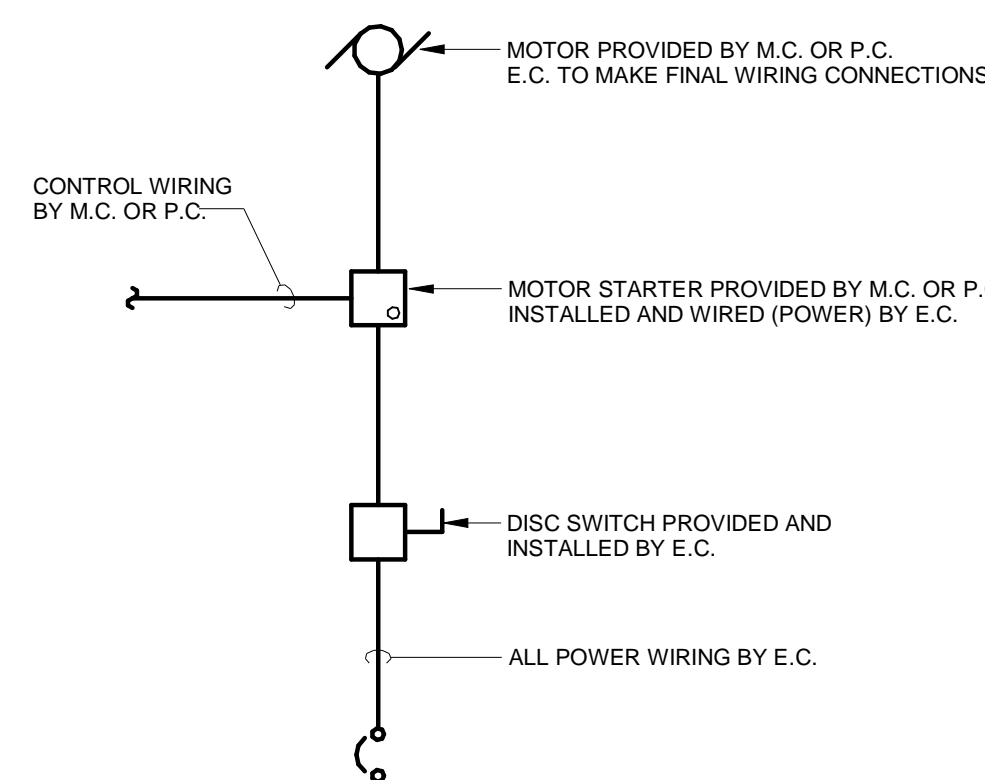
TYPICAL BUILDING WIRING METHOD

NO SCALE



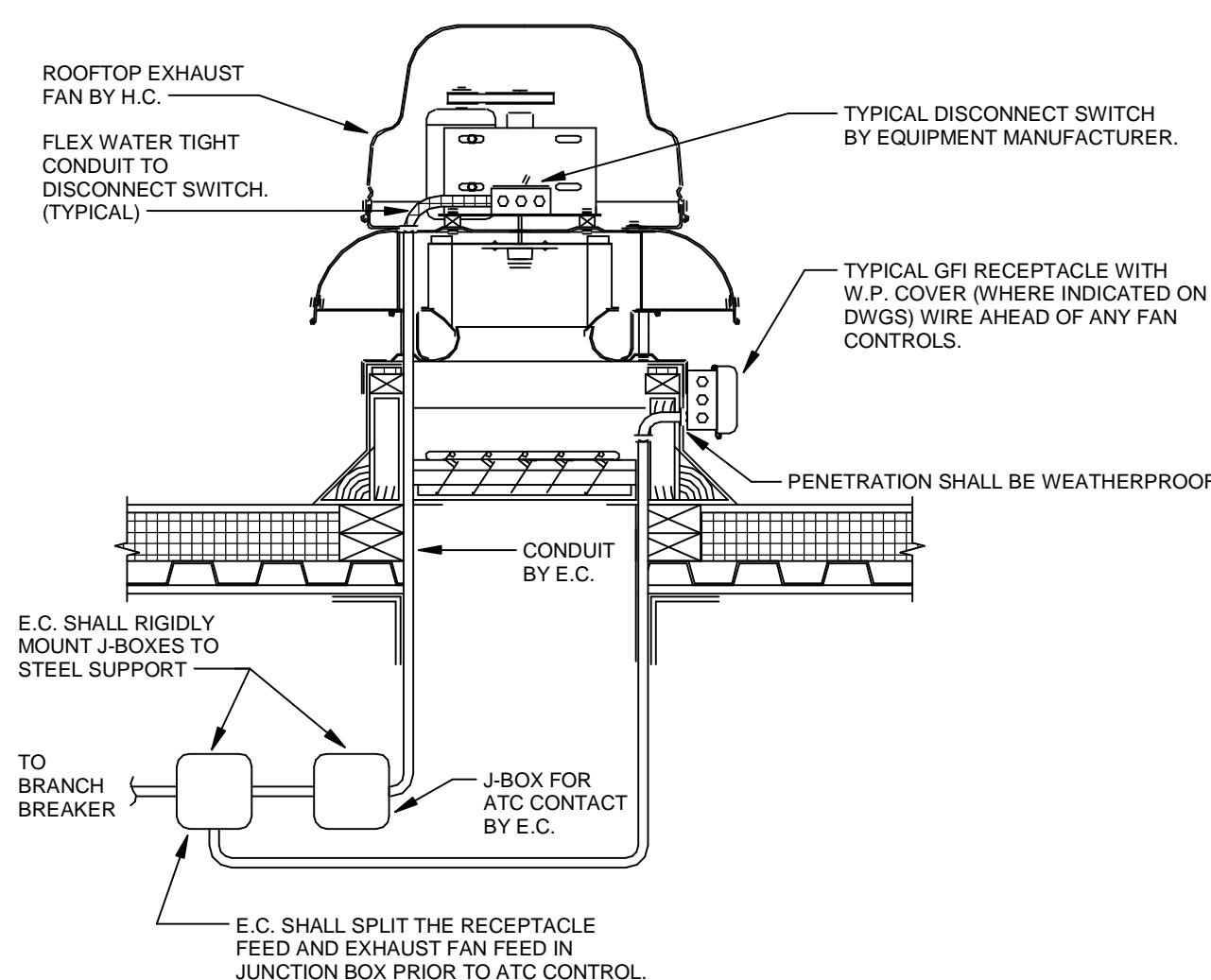
ROOF PENETRATION DETAIL

NO SCALE



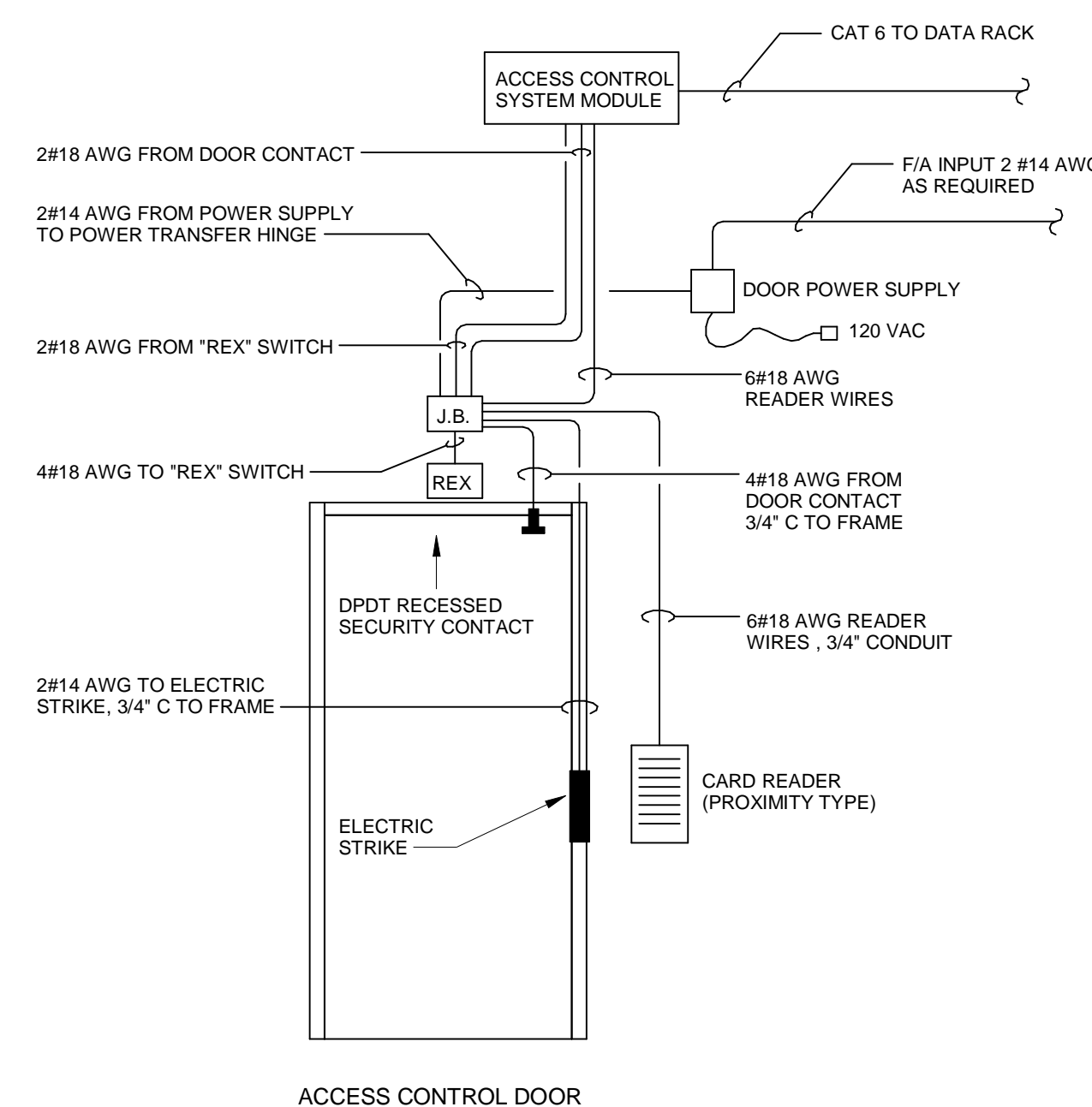
TYPICAL MOTOR WIRING DIAGRAM

NO SCALE



ROOFTOP GFI & EXHAUST FAN DETAIL

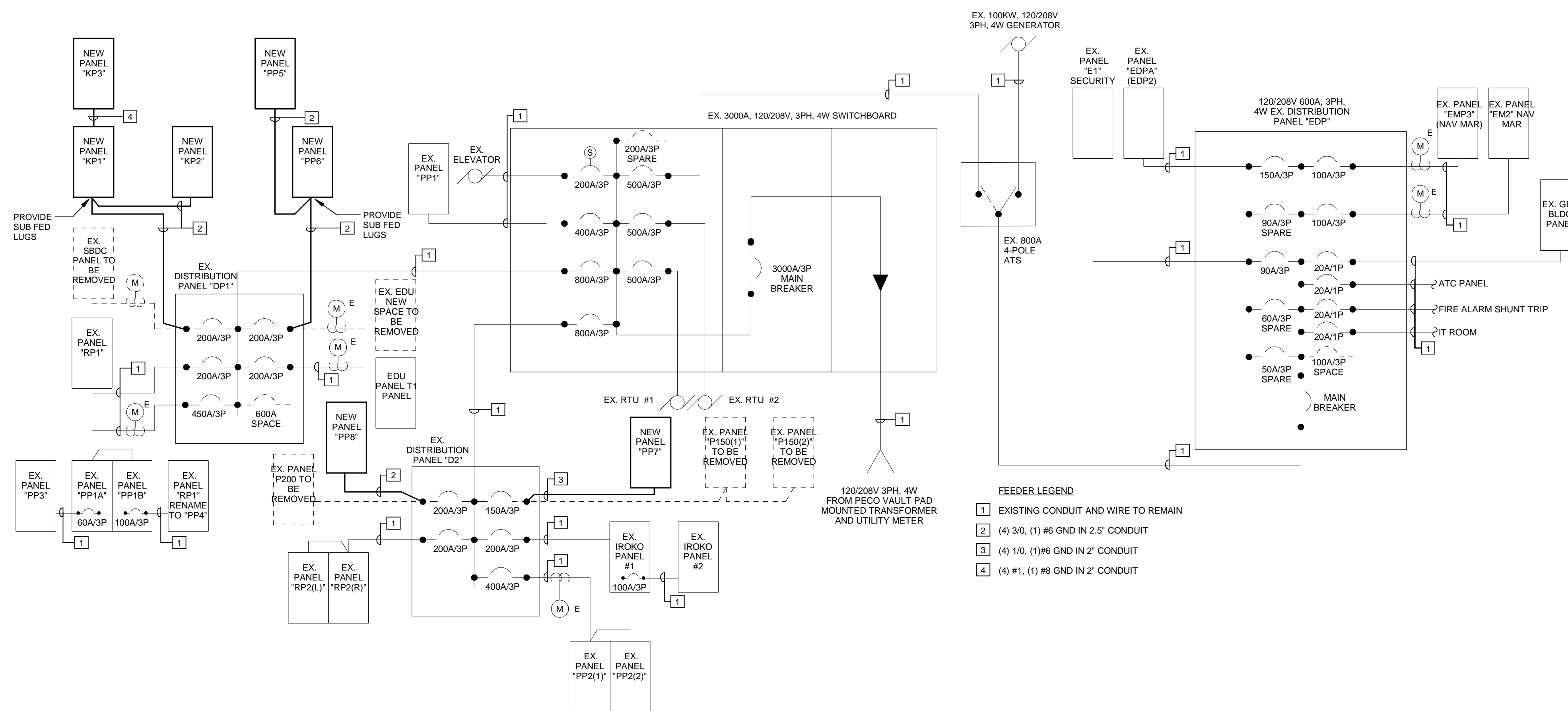
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ACCESS CONTROL SYSTEM RISER DIAGRAM

NO SCALE

RESPONSIBILITY MATRIX FOR DOOR CONTROL SYSTEMS			
ITEM	FURNISHED BY	INSTALLED BY	WIRED BY
CARD READER - READER POWER SUPPLY READER CONTROLLER	E.C.	E.C.	E.C.
ADA ELECTRIC DOOR CLOSERS & ACTUATORS	G.C.	G.C.	E.C.
DOOR POWER SUPPLIES	G.C.	E.C.	E.C.
ELECTRIC EXIT DEVICES (E.I.A.) ELECTRIC POWER SUPPLY	G.C.	G.C.	E.C.
DOOR POSITION & SECURITY SWITCHES	E.C.	E.C.	E.C.
REQUEST TO EXIT (REX) SWITCHES	E.C.	E.C.	E.C.
MAGNETIC LOOKS & POWER SUPPLIES	E.C.	E.C.	E.C.
JUNCTION BOXES, CONDUIT	E.C.	E.C.	



1 SINGLE LINE DIAGRAM

E600.PH2 SCALE: 1/8" = 1'-0"

Drawing Title:

SINGLE LINE
ELECTRICAL

Drawing Number:

Civit.

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1350 EDMONT AVENUE
RENOVATIONS

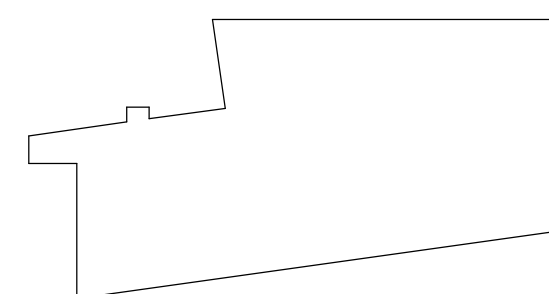
1350 EDMONT AVENUE
CHESTER, PA 19013

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DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.1

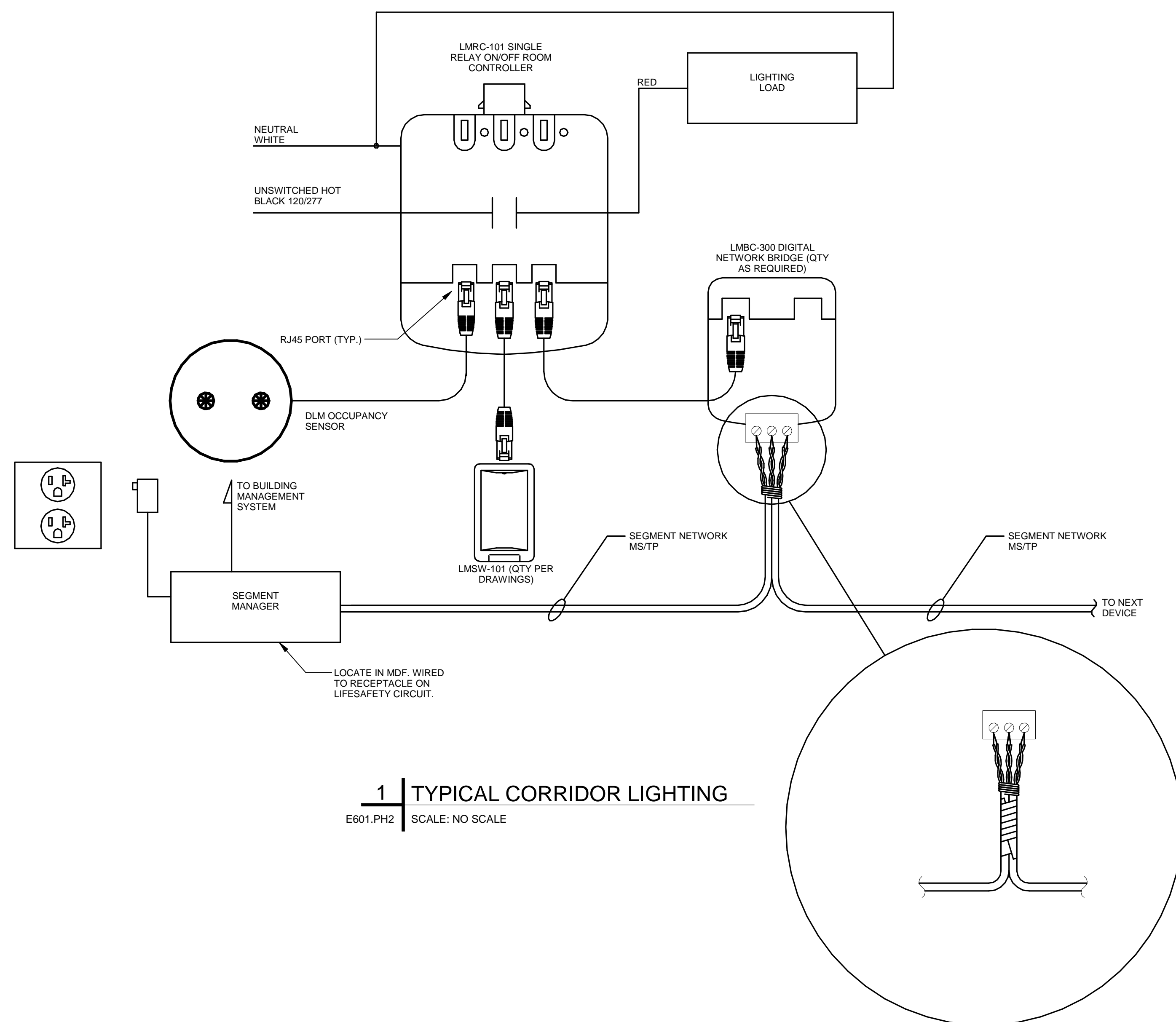
Key Plan:



DETAILS - ELECTRICAL

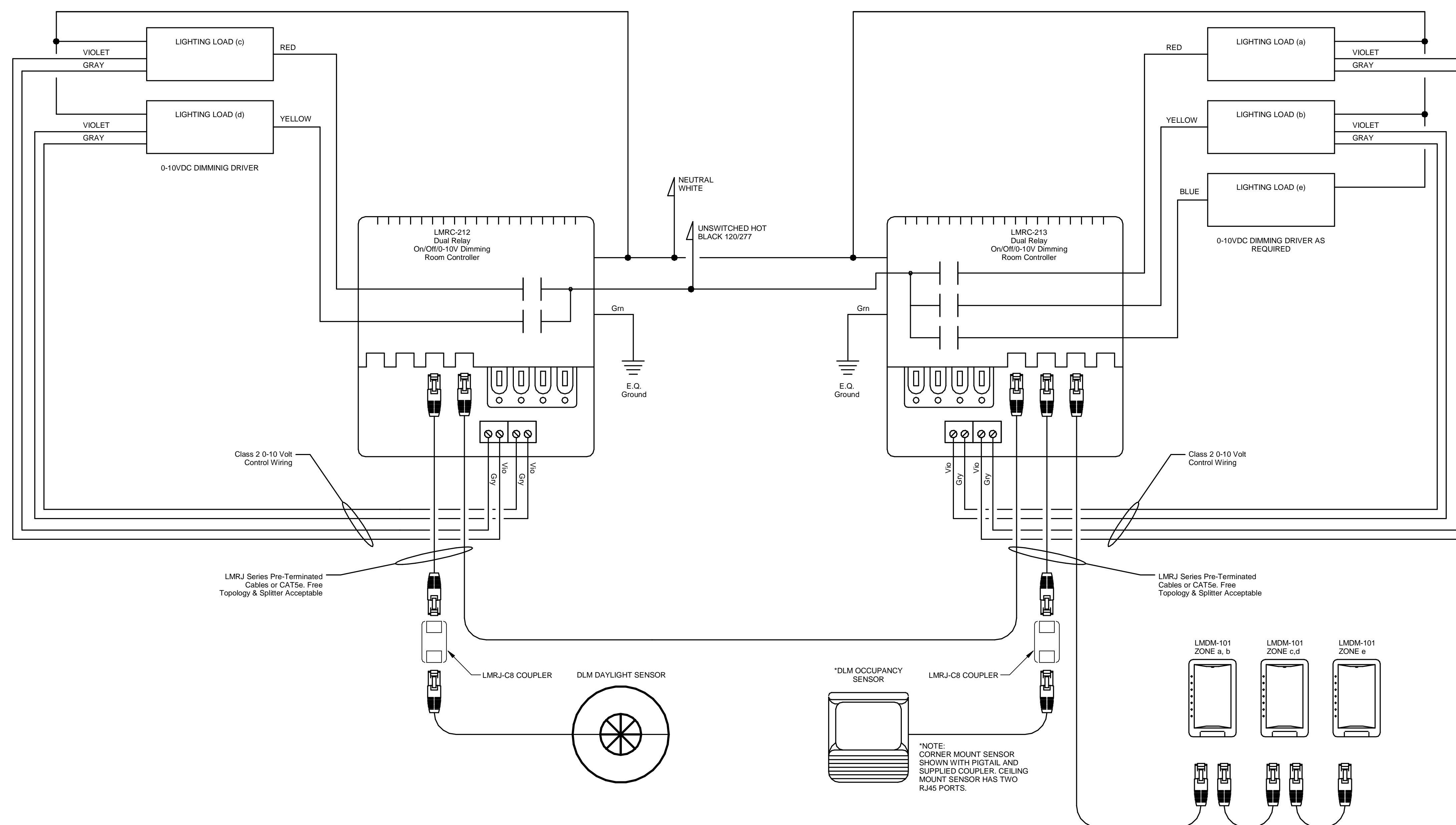
Drawing Number:

E601.PH2



1 | TYPICAL CORRIDOR LIGHTING

E601.PH2 SCALE: NO SCALE



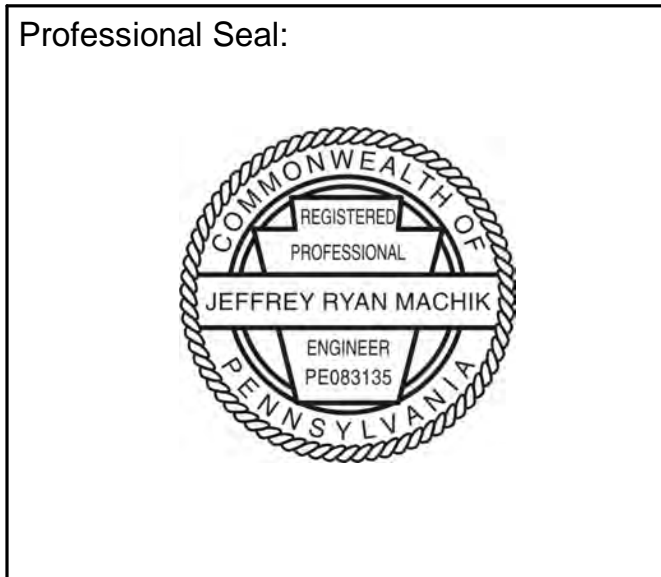
2 | TYPICAL CLASSROOM LIGHTING

E601.PH2 SCALE: NO SCALE

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Owner:
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SCHOOL DISTRICT
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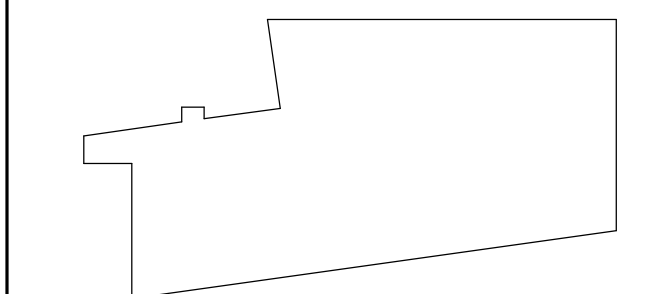
1350 EDMONT AVENUE
RENOVATIONS
CHESTER, PA 19013

NO.	DESCRIPTION	DATE
	BUILDING PERMIT SET	01/30/2023
	ISSUED FOR BIDDING	01/30/2023

DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.1

Key Plan:



Drawing Title:
SCHEDULES -
ELECTRICAL

Drawing Number:

E701.PH2

Branch Panel: E1

Location: ELEC. 35

Volts: 120/208 Wye

A.I.C. Rating: Existing

Supply From: MCB

Phases: 3

Wires: 4

Mains Type: MLO

Mains Rating: 125 A

Enclosure: Type 1

MCB Rating: 0 A

Modifications:

CKT	Poles	Trip	Circuit Description	Phase A (VA)	Phase B (VA)	Phase C (VA)	Circuit Description	Trip	Poles	CKT
1	1	20 A	Spare	0 / 0			Repts Data Rm	20 A	1	2
3	1	20 A	Spare		0 / 0		Repts Data Rm	20 A	1	4
5	1	20 A	Spare			0 / 0	Repts Data Rm	20 A	1	6
7	1	30 A	Wall Outlet	0 / 0			Wall Outlet	20 A	2	8
9	1	30 A	Wall Outlet		0 / 0		--	--	--	10
11	1	30 A	Wall Outlet			0 / 0	Wall Outlet	20 A	2	12
13	1	30 A	Wall Outlet	0 / 0			--	--	--	14
15	1	30 A	Existing Load		0 / 0		Sanyo A/C	30 A	2	16
17	1	30 A	Existing Load			0 / 0	--	--	--	18
				0 VA	0 VA	0 VA				
				0 A	0 A	0 A				

Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals		
							Total Conn. Load: 0 VA		
							Total Est. Demand: 0 VA		
							Total Conn. Current: 0 A		
							Total Est. Demand... 0 A		

Notes:

Existing Loads and Breakers Designated By *Italic* font.

New Loads and Breakers Designated by **Bold** Font.

Field Verify Existing Panel AIC rating and provide equivalent AIC Rating for All New Breakers. Provide New Typed Circuit Directory

Branch Panel: EDPA (EDP2)										
Location: ELEC. 31				Volts: 120/208 Wye			A.I.C. Rating: Existing			
Supply From:				Phases: 3			Mains Type: MLO			
Mounting: Surface				Wires: 4			Mains Rating: 225 A			
Enclosure: Type 1				MCB Rating: 0 A						
Modifications:										
CKT	Poles	Trip	Circuit Description	Phase A (VA)	Phase B (VA)	Phase C (VA)	Circuit Description	Trip	Poles	CKT
1	1	20 A	Rept Elev Machine Rm	0 / 0			Rept Suite 2500	20 A	1	2
3	1	20 A	Security Panel Main Vestibule		0 / 0		Lts Outside Building & Lobby	20 A	1	4
5	1	20 A	Elevator Signal Circuit			0 / 0	Lts East Corridor & Outside	20 A	1	6
7	1	20 A	Security Doors IROKO	0 / 0			Lts 2nd Flr Lobby	20 A	1	8
9	1	20 A	NAVMAR 2nd Flr		0 / 0		Building Exit Signs	20 A	1	10
11	1	20 A	Rept Elect Rm 1st Flr			0 / 0	Rept 2nd Flr Elect Rm	20 A	1	12
13	1	20 A	Rept Data Rm 1st Flr	0 / 0			Rept Widner Rm	20 A	1	14
15	1	20 A	Security Panel Telecom RM		0 / 0		Rept Widner Rm	20 A	1	16
17	1	20 A	Lts 2nd Floor South			0 / 0	Rept Widner Rm	20 A	1	18
19	1	20 A	Ltg 1st Flr NAVMAR	0 / 0			Ltg 2nd Flr NAVMAR	20 A	1	20
21	1	--	Space		0 / 0		Space	--	1	22
23	1	--	Space			0 / 0	Space	--	1	24
				0 VA	0 VA	0 VA				
				0 A	0 A	0 A				
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals			
							Total Conn. Load:	0 VA		
							Total Est. Demand:	0 VA		
							Total Conn. Current:	0 A		
							Total Est. Demand...	0 A		
Notes:										
Existing Loads and Breakers Designated By <i>Italic</i> font.										
New Loads and Breakers Designated by Bold Font.										
Field Verify Existing Panel AIC rating and provide equivalent AIC Rating for All New Breakers. Provide New Typed Circuit Directory										

Branch Panel: EM2

Location:

Supply From:

Mounting: Surface

Enclosure: Type 1

Modifications:

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: Existing

Mains Type: MLO


Mains Rating: 100 A

MCB Rating: 90 A

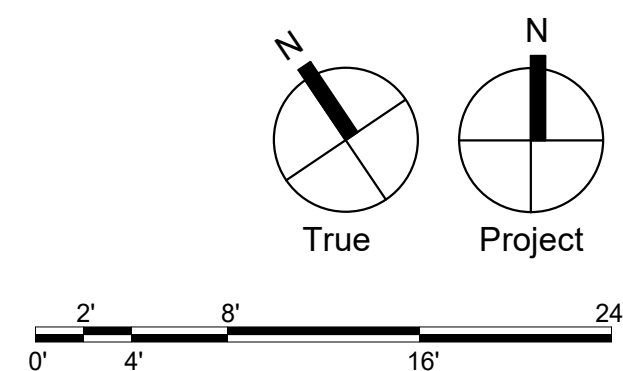
CKT	Poles	Trip	Circuit Description	Phase A (VA)	Phase B (VA)	Phase C (VA)	Circuit Description	Trip	Poles	CKT	
1	1	30 A	Rept 30A IG	0 / 0			Existing Load	30 A	1	2	
3	1	20 A	Rept IG		0 / 0		Rept 30A IG	30 A	1	4	
5	1	20 A	Rept IG 1st Flr Corf Rm			0 / 0	Rept IG	20 A	1	6	
7	1	20 A	Rept IG 1st Flr Corf Rm	0 / 0			Rept IG	20 A	1	8	
9	1	20 A	Existing Load		0 / 0		Lig IT Rm	20 A	1	10	
11	1	20 A	Existing Load			0 / 0	Rept UPS	30 A	2	12	
13	1	20 A	Existing Load	0 / 0			--	--	--	14	
15	1	20 A	Existing Load		0 / 0		A/C 3-Ton	20 A	2	16	
17	1	20 A	Existing Load			0 / 0	--	--	--	18	
19	1	20 A	Spare	0 / 0			Spare	20 A	1	20	
21	1	20 A	Spare		0 / 0		Spare	20 A	1	22	
23	1	20 A	Spare			0 / 0	Spare	20 A	1	24	
25	1	20 A	Spare	0 / 0			Spare	20 A	1	26	
27	1	20 A	Spare		0 / 0		Space	--	--	28	
29	1	30 A	Spare			0 / 0	Space	--	--	30	
				0 VA	0 VA	0 VA					
				0 A	0 A	0 A					
Load Classification				Connected Load		Demand Factor		Estimated...		Panel Totals	
										Total Conn. Load: 0 VA	
										Total Est. Demand: 0 VA	
										Total Conn. Current: 0 A	
										Total Est. Demand: 0 A	
Notes: Existing Loads and Breakers Designated By <i>Italic</i> font. New Loads and Breakers Designated by Bold Font. Field Verify Existing Panel AIC rating and provide equivalent AIC Rating for All New Breakers. Provide New Typed Circuit Directory											

Branch Panel: IROKO 1										
Location: Room C201.21				Volts: 120/208 Wye			A.I.C. Rating: Existing			
Supply From:				Phases: 3			Mains Type: MCB			
Mounting: Recessed				Wires: 4			Mains Rating: 225 A			
Enclosure: Type 1				MCB Rating: 1 A						
Modifications:										
CKT	Poles	Trip	Circuit Description	Phase A (VA)	Phase B (VA)	Phase C (VA)	Circuit Description	Trip	Poles	CKT
1	2	60 A	HVAC	0 / 0			HVAC	50 A	3	2
3	--	--	--		0 / 0	--	--	--	--	4
5	2	50 A	HVAC			0 / 0	--	--	--	6
7	--	--	--	0 / 0			Repts	20 A	1	8
9	2	20 A	Mini-Split IT Rm		0 / 0		Repts	20 A	1	10
11	--	--	--			0 / 0	Repts	20 A	1	12
13	1	20 A	Pump	0 / 0			Refrigerator	20 A	1	14
15	3	100 A	IROKO 2		0 / 0		Repts	20 A	1	16
17	--	--	--			0 / 0	Repts	20 A	1	18
19	--	--	--	0 / 0			Repts	20 A	1	20
21	1	20 A	Rept Mail Rm		0 / 0		Repts Mail Rm	20 A	1	22
23	1	20 A	Dishwasher			0 / 0	Repts	20 A	1	24
25	1	20 A	Rept IT Rm +72"	0 / 0			Repts	20 A	1	26
27	1	20 A	Existing Load		0 / 0		Lig	20 A	1	28
29	1	20 A	Existing Load			0 / 0	Lig	20 A	1	30
31	1	20 A	Existing Load	0 / 0			Lig	20 A	1	32
33	1	20 A	Rept		0 / 0		Lig	20 A	1	34
35	1	20 A	Rept It Rm			0 / 0	Lig	20 A	1	36
37	1	20 A	Rept It Rm	0 / 0			Lig	20 A	1	38
39	1	20 A	Rept IT Rm +72"		0 / 0		Lig	20 A	1	40
41	1	20 A	Microwave			0 / 0	Lig	20 A	1	42
				0 VA	0 VA	0 VA				
				0 A	0 A	0 A				
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals			
							Total Conn. Load:	0 VA		
							Total Est. Demand:	0 VA		
							Total Conn. Current:	0 A		
							Total Est. Demand:	0 A		

Key Plan:

A key plan showing the site's location within a larger area. The site is represented by a small rectangle, and the surrounding area is shown with a grid of lines. The site is located in the upper right corner of the grid.

-



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**CHESTER UPLAND
SCHOOL DISTRICT**
232 W. 9th Street
Chester, PA 19013

1350 EDMONT AVENUE RENOVATIONS

1350 EDMONT AVENUE
CHESTER, PA 19013

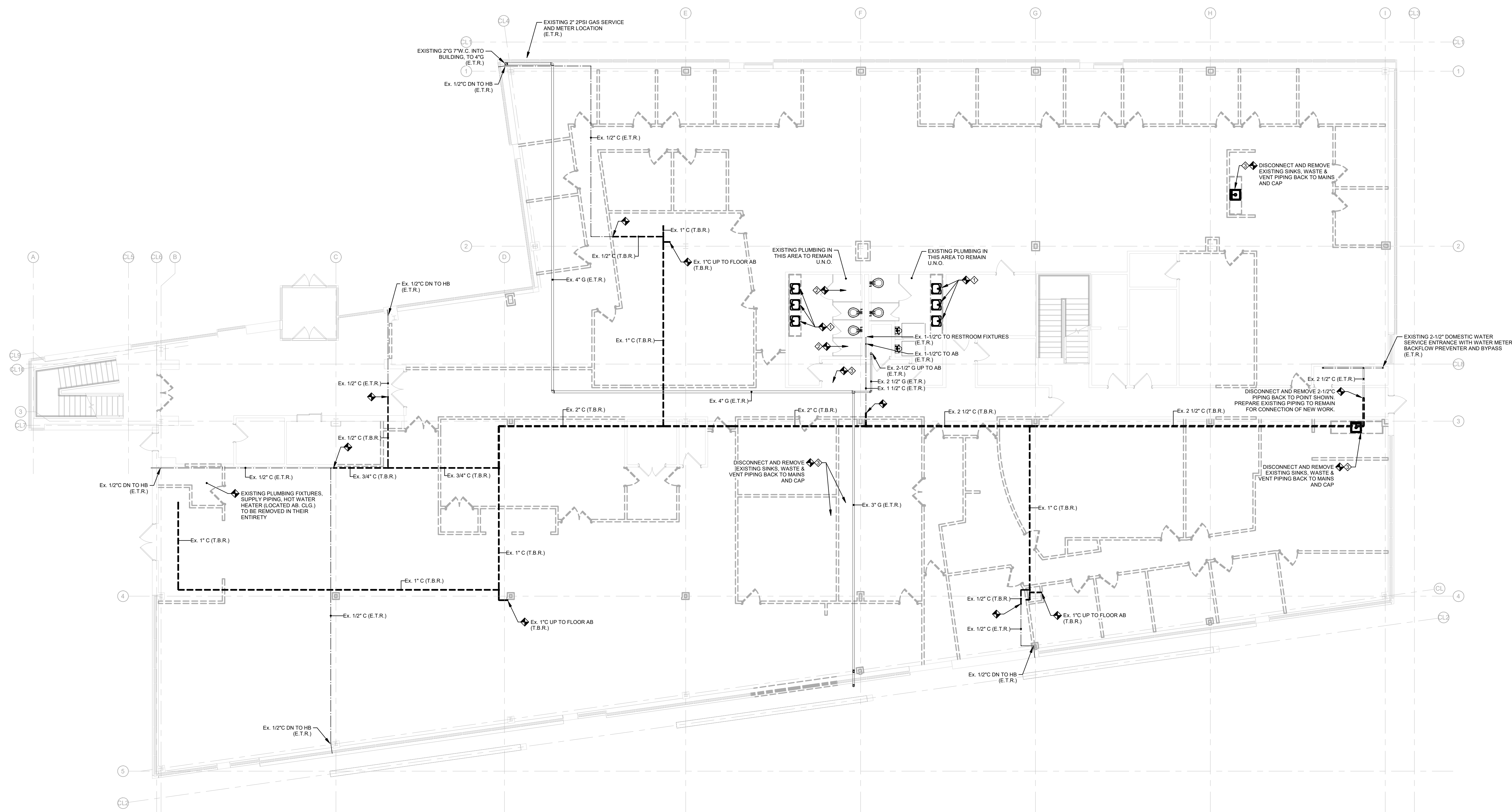
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SG PROJECT NUMBER: 22-023.1



FIRST FLOOR
DEMOLITION PLAN -
SUPPLY PIPING

PD201



1 | FIRST FLOOR DEMOLITION PLAN - SUPPLY PIPING

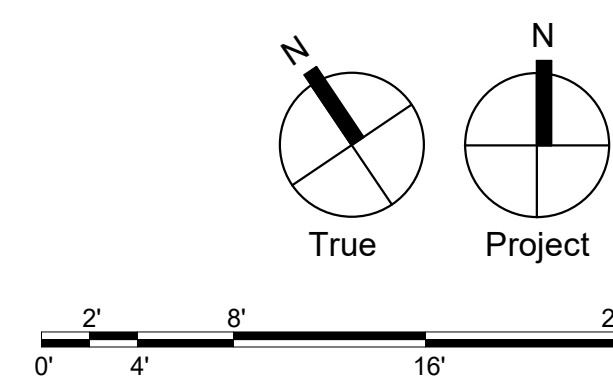
PD201	SCALE: 1/8" = 1'-0"
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DEMOLITION NOTES - SUPPLY PIPING

- ◆ DISCONNECT AND REMOVE EXISTING LAVATORY.
EXISTING SUPPLY PIPING TO REMAIN. PREPARE EXISTING PIPING TO REMAIN FOR CONNECTION OF NEW WORK
- ◆ DISCONNECT AND REMOVE EXISTING WATER CLOSET.
EXISTING SUPPLY PIPING TO REMAIN. PREPARE EXISTING PIPING TO REMAIN FOR CONNECTION OF NEW WORK
- ◆ DISCONNECT AND REMOVE EXISTING ELECTRIC WATER HEATER LOCATED ABOVE CEILING IN ITS ENTIRETY. DISCONNECT AND REMOVE EXISTING SUPPLY PIPING. EXISTING HW SUPPLY FEEDING EXISTING FIXTURES TO REMAIN. PREPARE PIPING TO REMAIN FOR CONNECTION OF NEW WORK.
- ◆ P.C. SHALL VERIFY EXISTING HOT WATER SUPPLY TO FIXTURE BEING DEMOLISHED. P.C. SHALL DISCONNECT AND REMOVE EXISTING HOT WATER HEATER, EXP. TANK, DRAIN PAN, ETC. IN ITS ENTIRETY AS REQUIRED.

GENERAL NOTE

1. THE P.C. SHALL PROVIDE UL LISTED FIRE WRAP ON ALL PVC PIPING WITHIN PLENUM SPACE.



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1350 EDMONT AVENUE
RENOVATIONS

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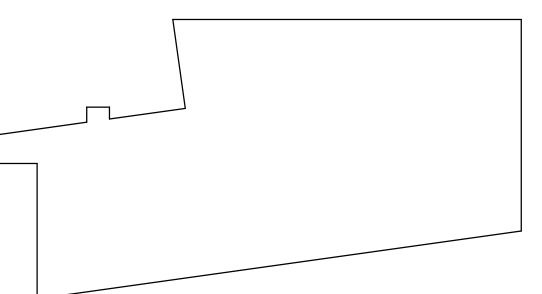
ISSUED FOR:

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DATE:	01/30/2023
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SG PROJECT NUMBER:	22-023.1
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Key Plan:



Drawing Title:

SECOND FLOOR DEMOLITION PLAN - SUPPLY PIPING

Drawing Number:

PD202



1 SECOND FLOOR DEMOLITION PLAN - SUPPLY PIPING

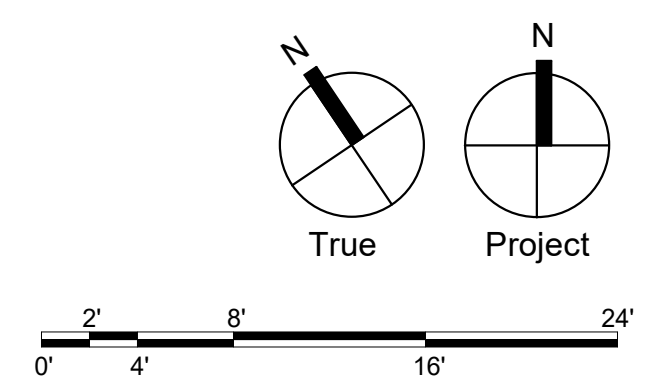
PD202	SCALE: 1/8" = 1'-0"
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DEMOLITION NOTES - SUPPLY PIPING

- 1 DISCONNECT AND REMOVE EXISTING HOT WATER SUPPLY PIPING FEEDING FIXTURES TO REMAIN. PREPARE EXISTING PIPING TO REMAIN FOR CONNECTION OF NEW WORK.

GENERAL NOTE:

1. THE P.C. SHALL PROVIDE UL LISTED FIRE WRAP ON ALL PVC PIPING WITHIN PLENUM SPACE



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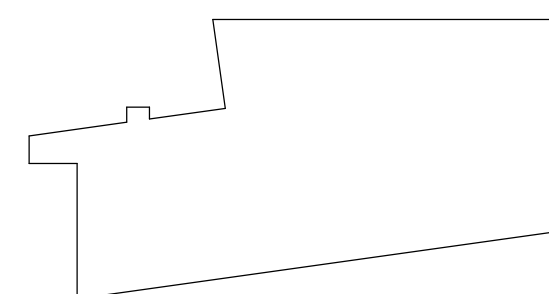
ISSUED FOR:

[illegible]

DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.1

Key Plan:

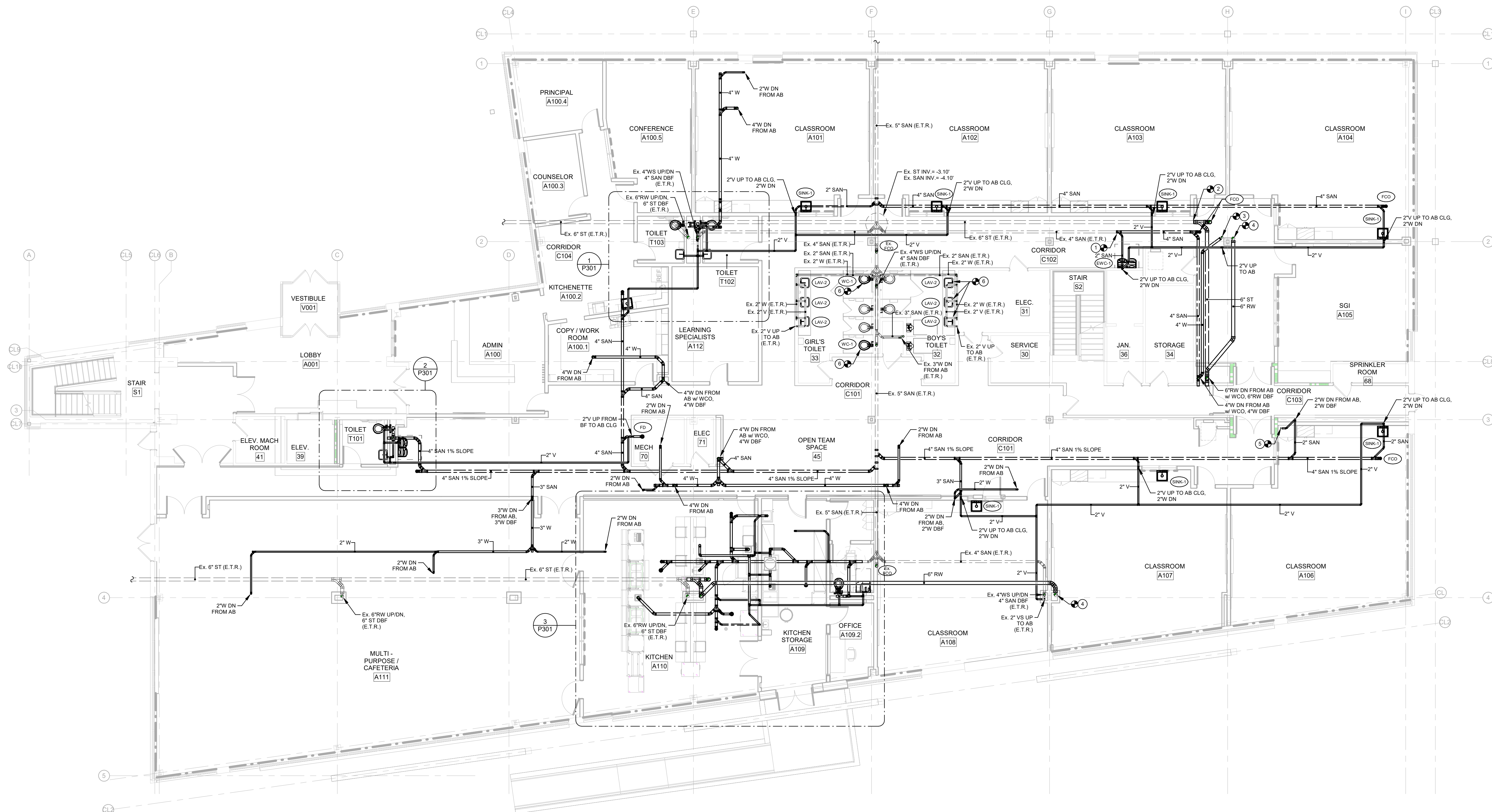


Drawing Title:

FIRST FLOOR PLAN - DRAINAGE & VENT PIPING

Drawing Number:

P101



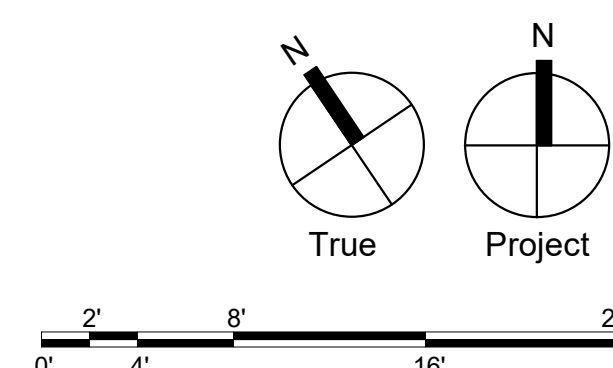
1 | FIRST FLOOR PLAN - DRAINAGE & VENT PIPING
P101 SCALE: 1/8" = 1'-0"

DRAWING NOTES - DRAINAGE & VENT PIPING

- ① CONNECT NEW 4" SANITARY PIPING TO EXISTING SANITARY PIPING LEFT FROM DEMOLITION WORK.
- ② CONNECT NEW 6" STORM PIPING TO EXISTING STORM PIPING LEFT FROM DEMOLITION WORK.
- ③ CONNECT NEW 4" WASTE PIPING TO EXISTING 4" WASTE PIPING ABOVE CEILING LEFT FROM DEMOLITION WORK.
- ④ CONNECT NEW 6" RW PIPING TO EXISTING 6" RW PIPING ABOVE CEILING LEFT FROM DEMOLITION WORK.
- ⑤ CONNECT NEW 2" WASTE PIPING TO EXISTING 2" WASTE PIPING ABOVE CEILING LEFT FROM DEMOLITION WORK.
- ⑥ PROVIDE NEW FIXTURE IN SAME LOCATION AS FIXTURE REMOVED DURING DEMOLITION WORK. P.C. TO MAKE FINAL CONNECTIONS TO EXISTING SUPPLY & WASTE PIPING.

GENERAL NOTE:

1. THE P.C. SHALL PROVIDE UL LISTED FIRE WRAP ON ALL PVC PIPING WITHIN PLENUM SPACE



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Owner:

232 W. 9th Street
Chester, PA 19013

1350 EDMONT AVENUE
RENOVATIONS

1350 EDMONT AVENUE
CHESTER PA 19013

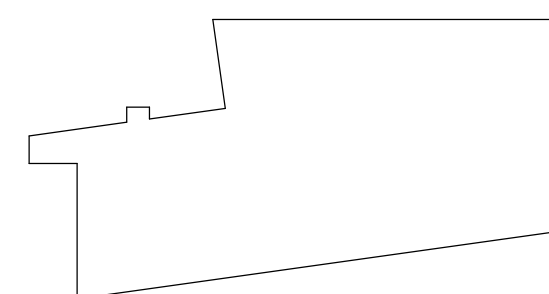
ISSUED FOR:

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DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.1

Key Plan:

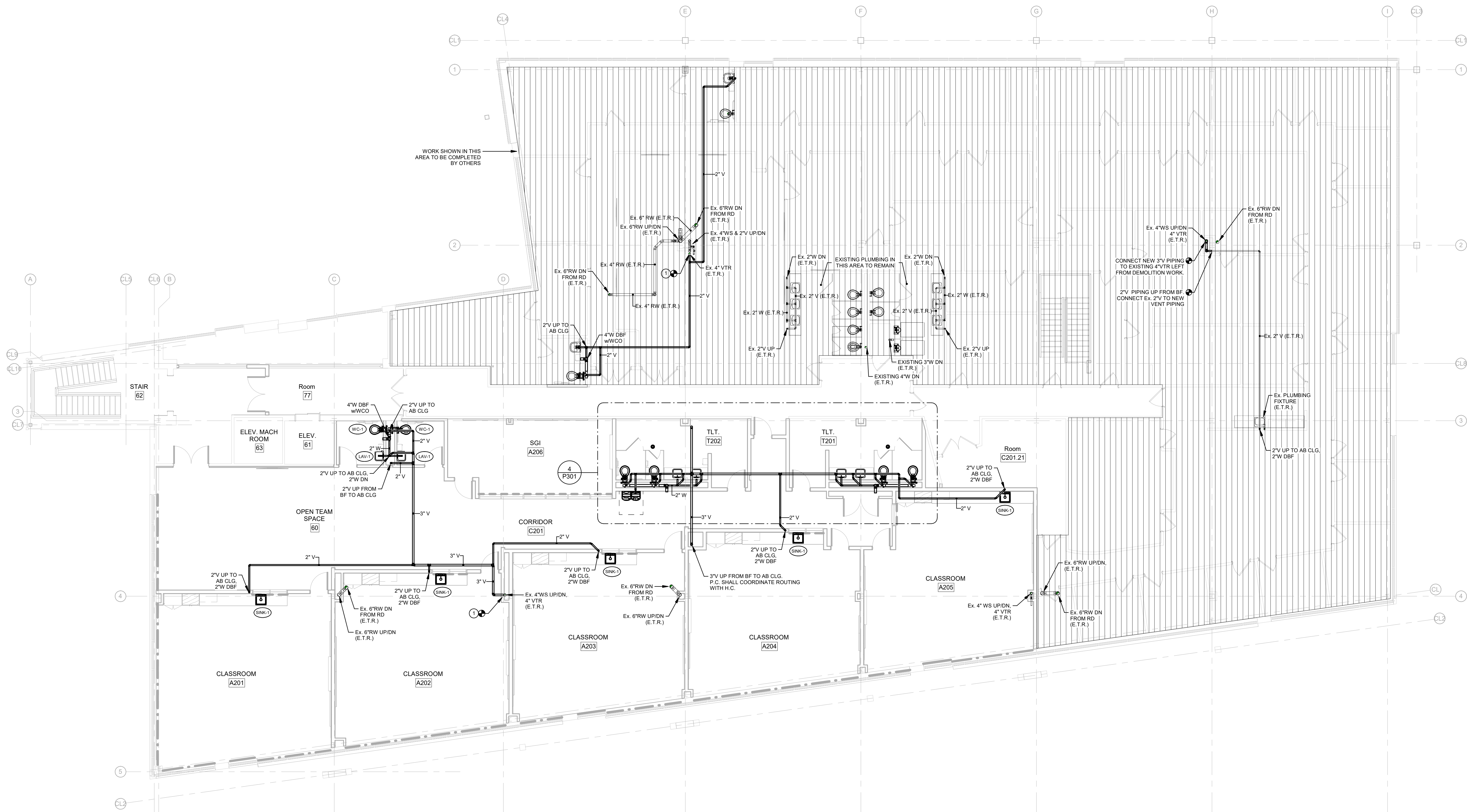


Drawing Title:

SECOND FLOOR PLAN - DRAINAGE & VENT PIPING

Drawing Number:

P102



1 | SECOND FLOOR PLAN - DRAINAGE & VENT PIPING

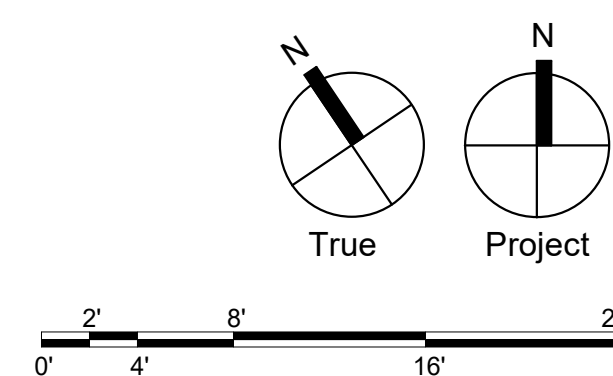
P102 SCALE: 1/8" = 1'-0"

DRAWING NOTES - DRAINAGE & VENT PIPING

① CONNECT NEW VENT PIPING TO EXISTING VENT PIPING.

GENERAL NOTE:

1. THE P.C. SHALL PROVIDE UL LISTED FIRE WRAP ON ALL PVC PIPING WITHIN PLENUM SPACE



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Owner:

CHESTER UPLAND

SCHOOL DISTRICT

232 W. 9th Street

Chester, PA 19013

1350 EDMONT AVENUE
RENOVATIONS

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CHESTER, PA 19013

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2	ISSUED FOR BIDDING	01/30/2023

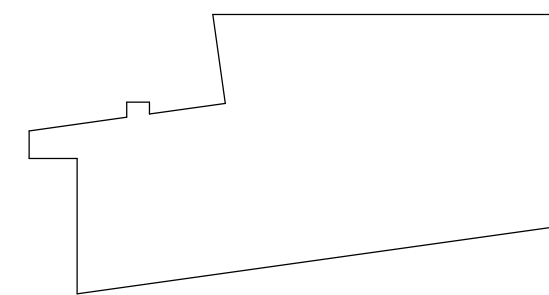
DATE:

01/30/2023

SG PROJECT NUMBER:

22-023.1

Key Plan:

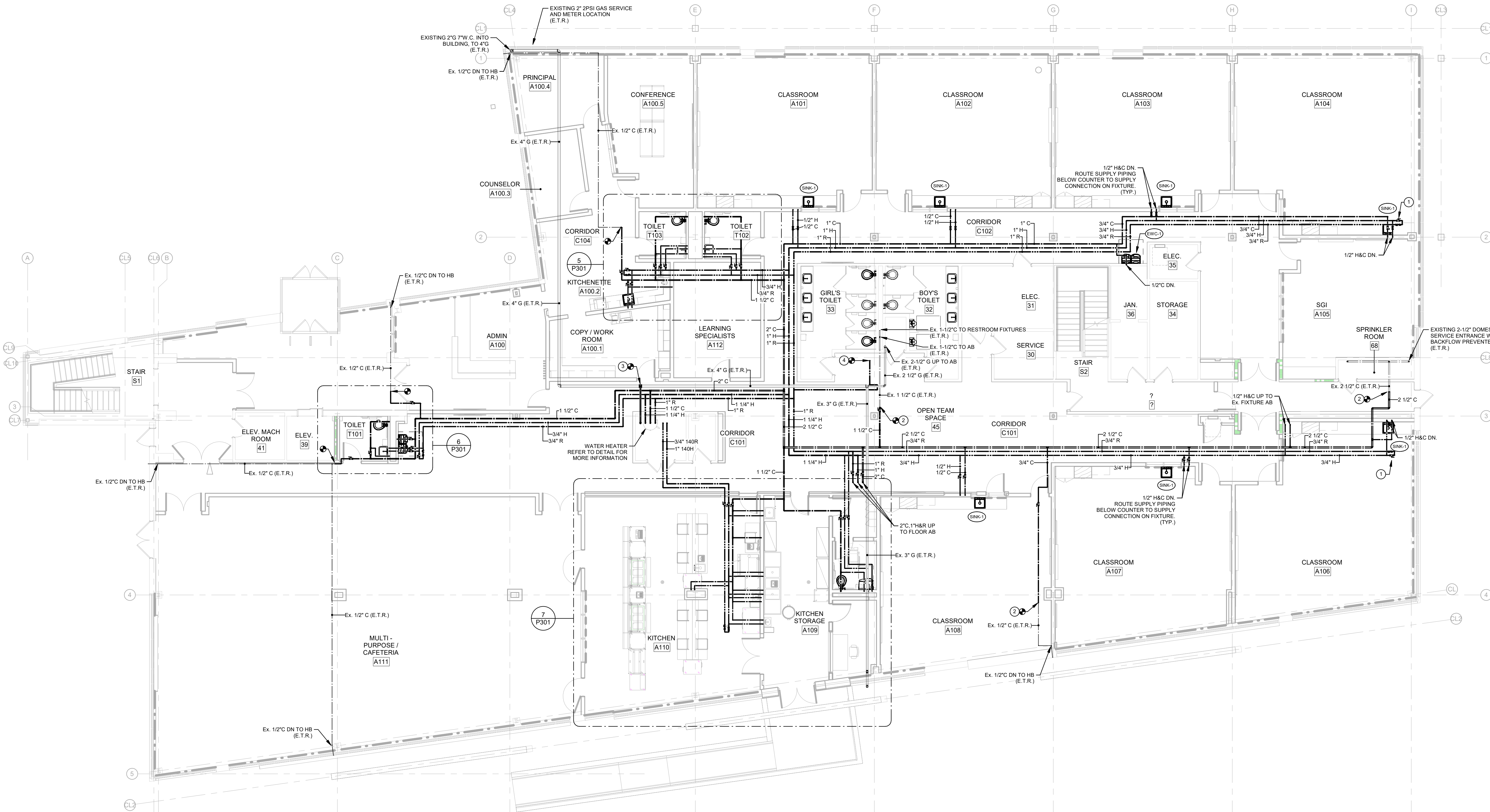


Drawing Title:

FIRST FLOOR PLAN -
SUPPLY PIPING

Drawing Number:

P201



1 FIRST FLOOR PLAN - SUPPLY PIPING

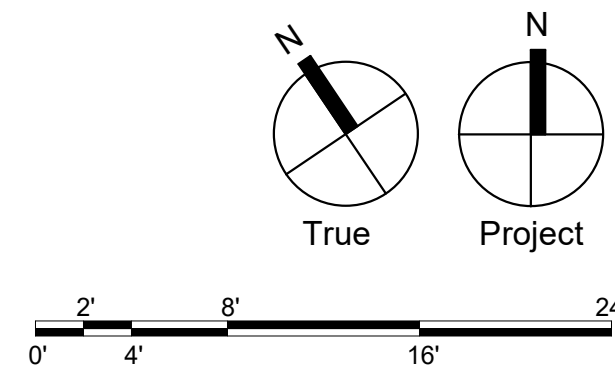
P201 SCALE: 1/8" = 1'-0"

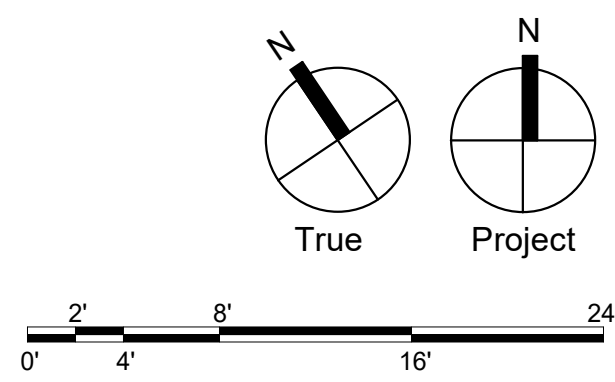
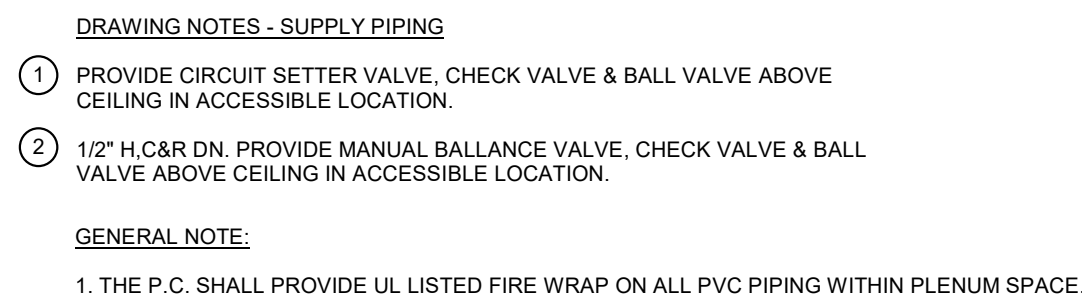
DRAWING NOTES - SUPPLY PIPING

- 1 PROVIDE CIRCUIT SETTER VALVE, CHECK VALVE & BALL VALVE ABOVE CEILING IN ACCESSIBLE LOCATION.
- 2 CONNECT NEW SUPPLY PIPING TO EXISTING SUPPLY PIPING LEFT FROM DEMOLITION WORK.
- 3 CONNECT NEW GAS PIPING TO EXISTING GAS PIPING AS SHOWN.
- 4 CONNECT NEW 3/4" H SUPPLY PIPING TO EXISTING HOT WATER SUPPLY PIPING LEFT FROM DEMOLITION WORK.

GENERAL NOTE:

1. THE P.C. SHALL PROVIDE UL LISTED FIRE WRAP ON ALL PVC PIPING WITHIN PLENUM SPACE.





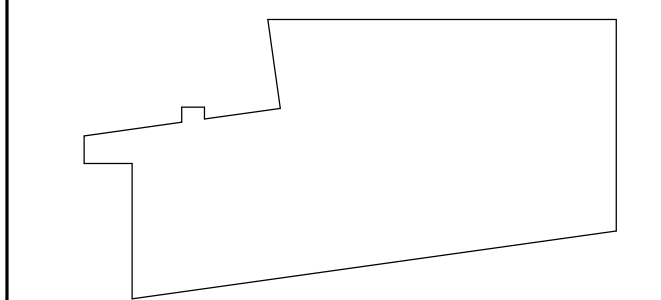


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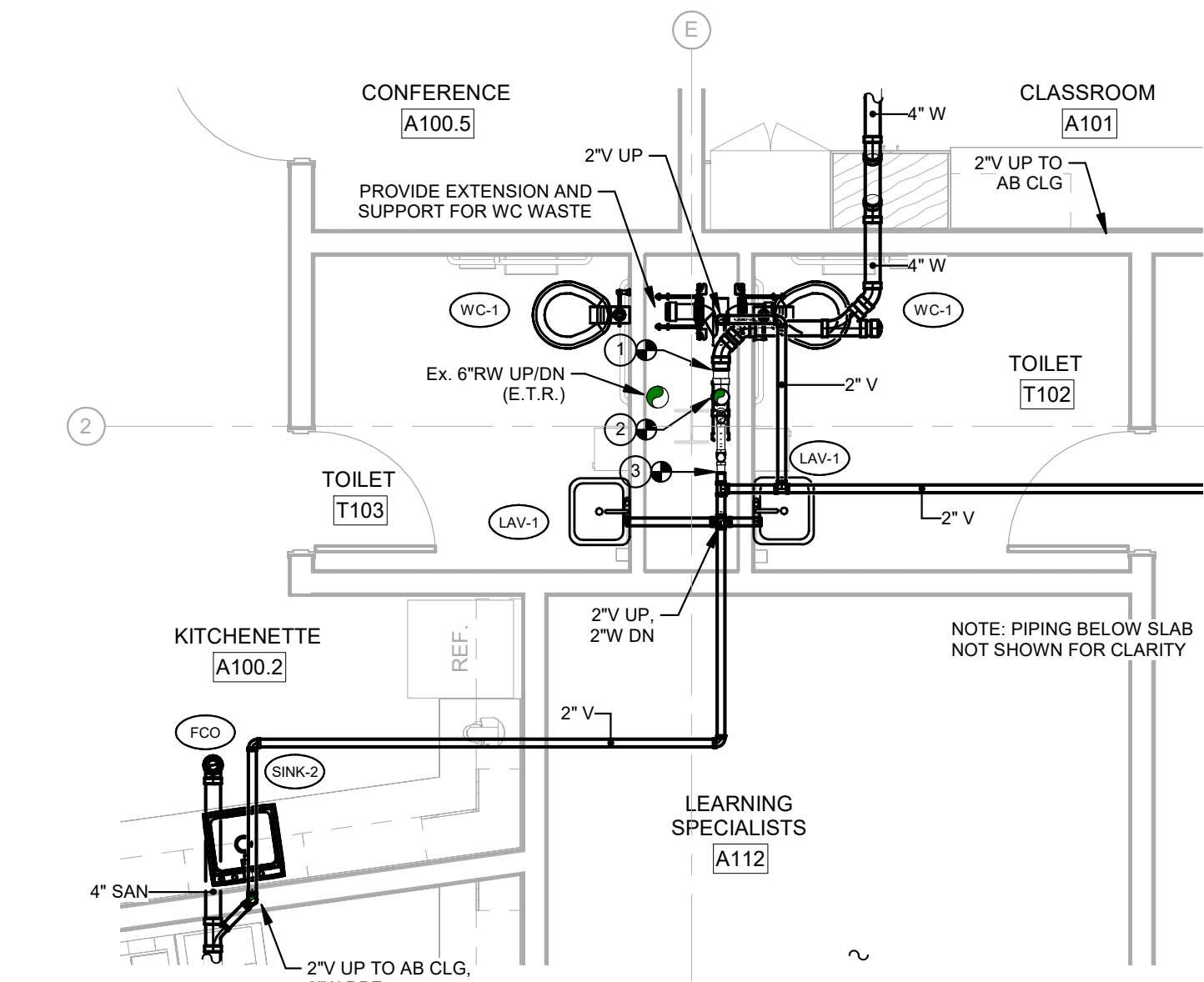
Key Plan:



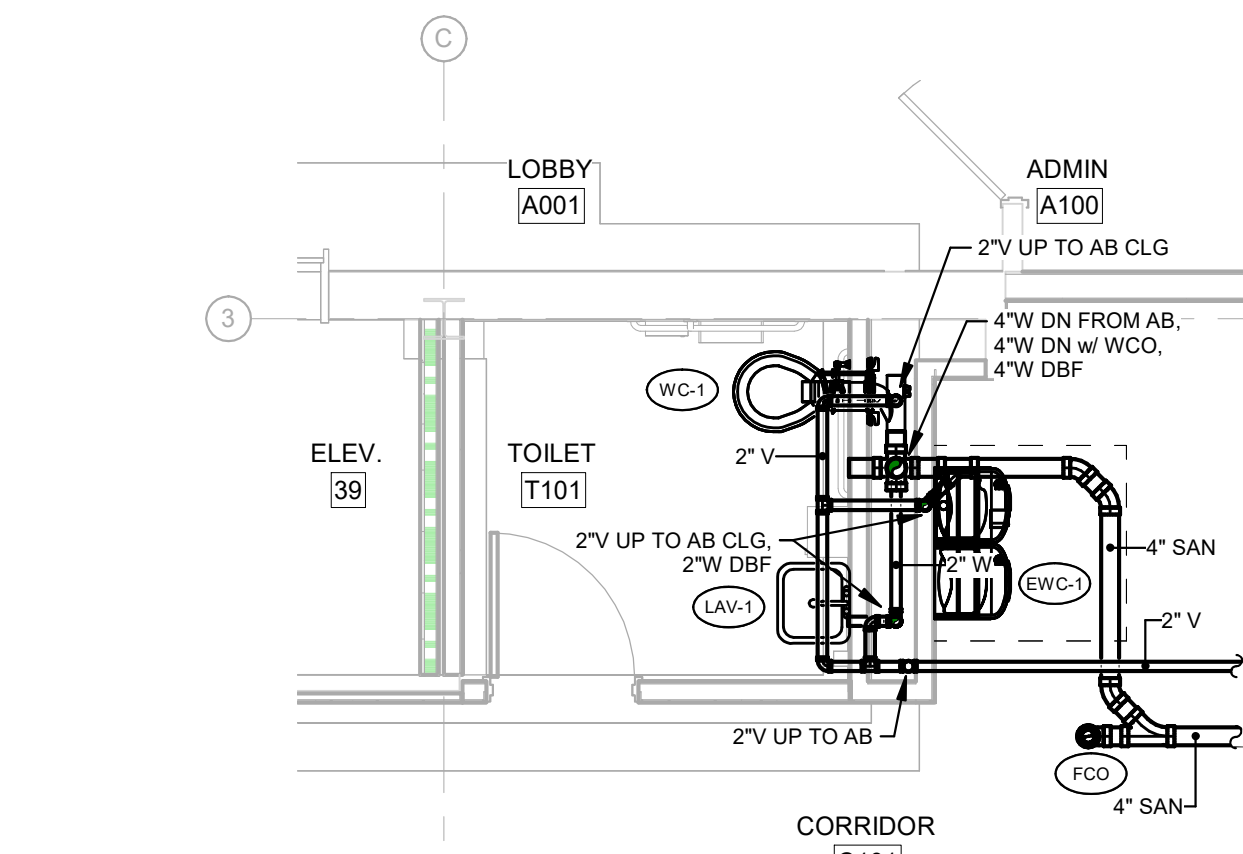
Drawing Title:
ENLARGED FLOOR
PLANS - PLUMBING

Drawing Number:

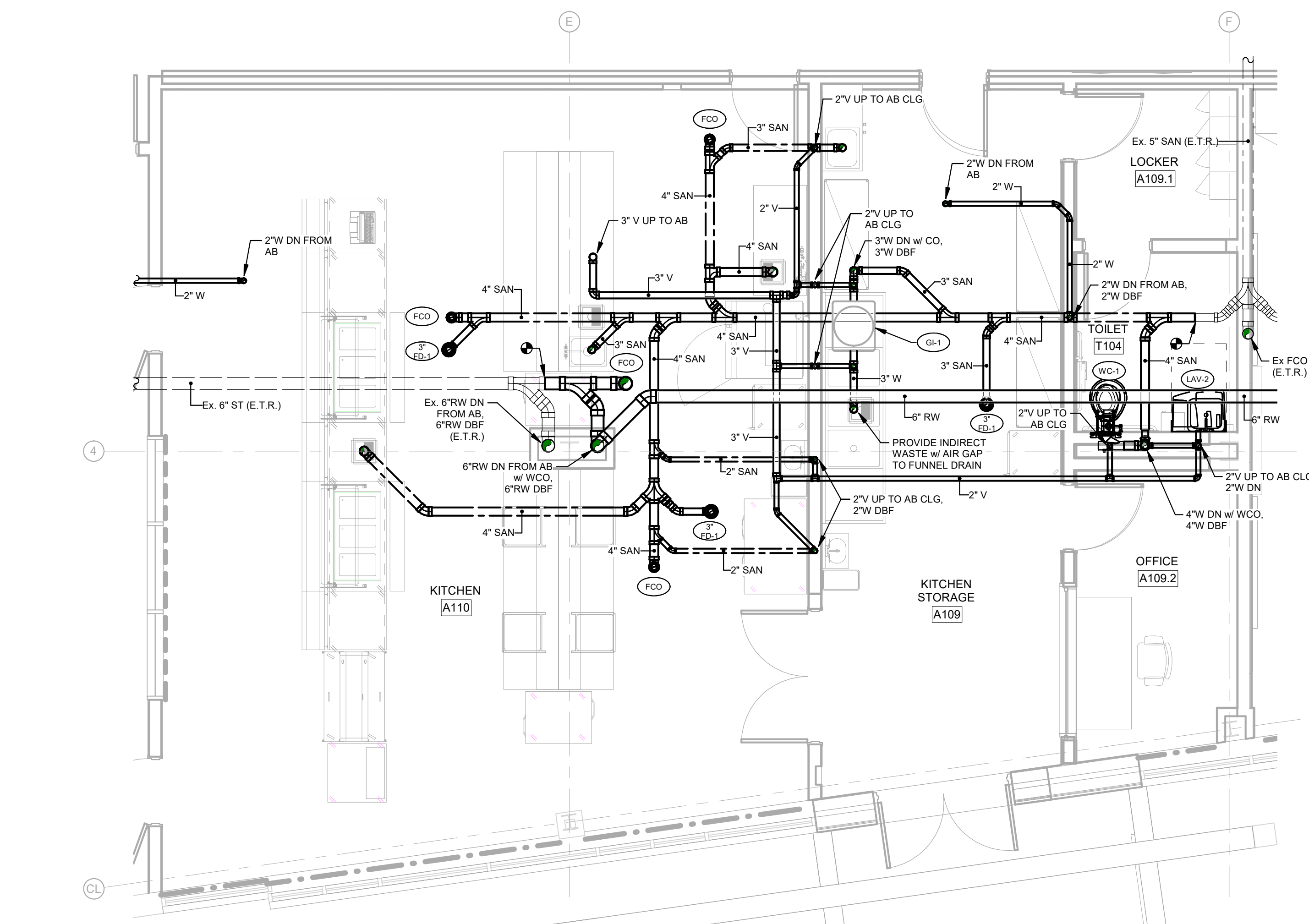
P301



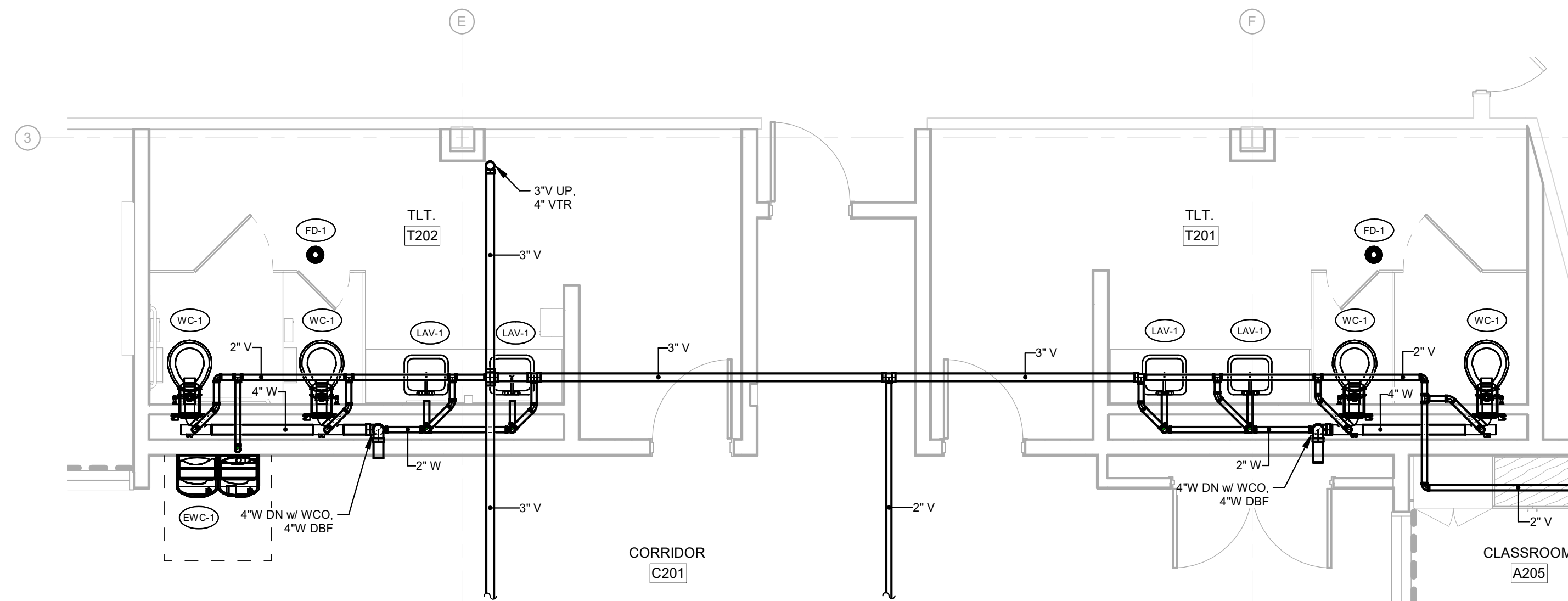
1 | ENLARGED FIRST FLOOR PLAN - DRAINAGE & VENT PIPING
P301 SCALE: 1/4" = 1'-0"



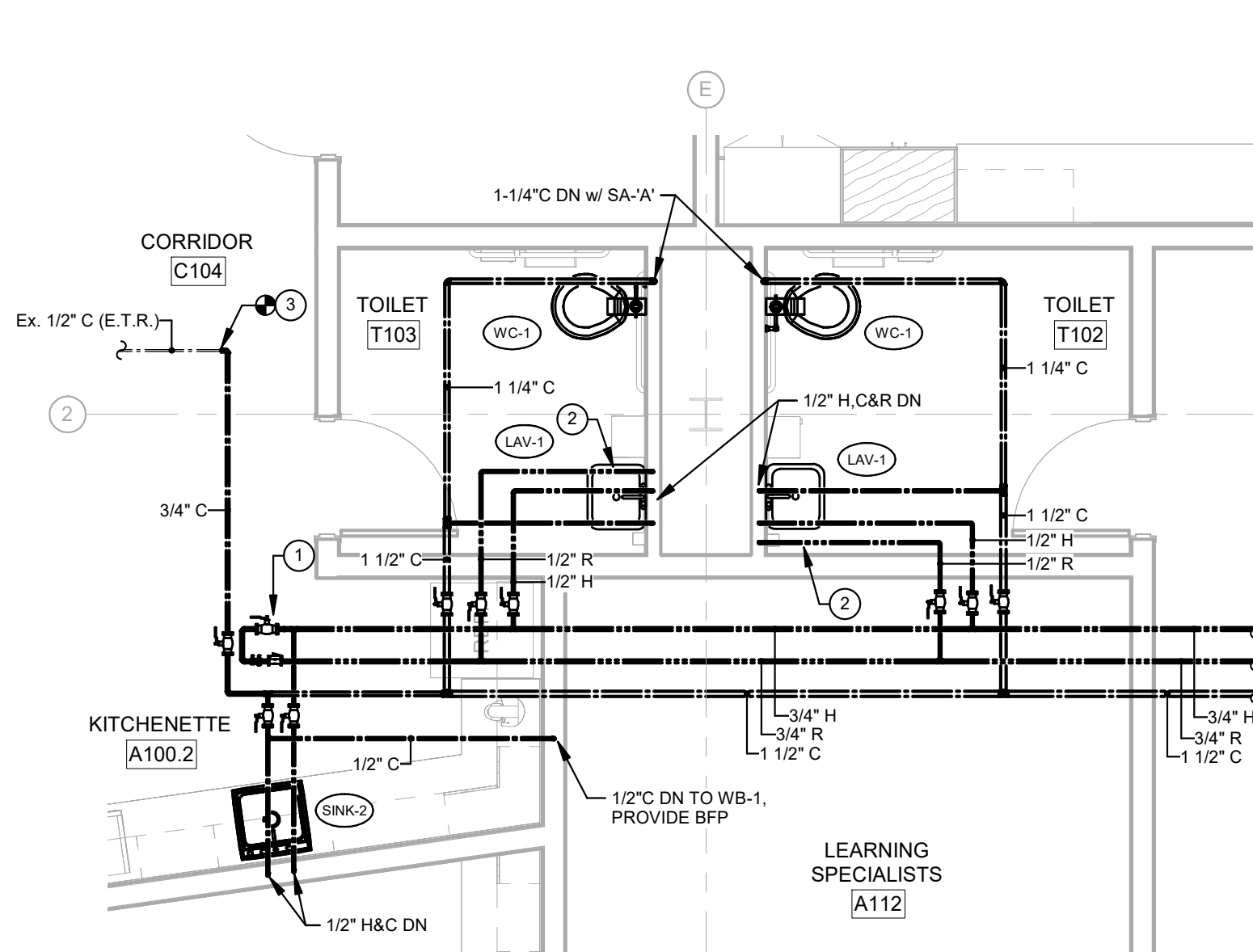
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P301 SCALE: 1/4" = 1'-0"



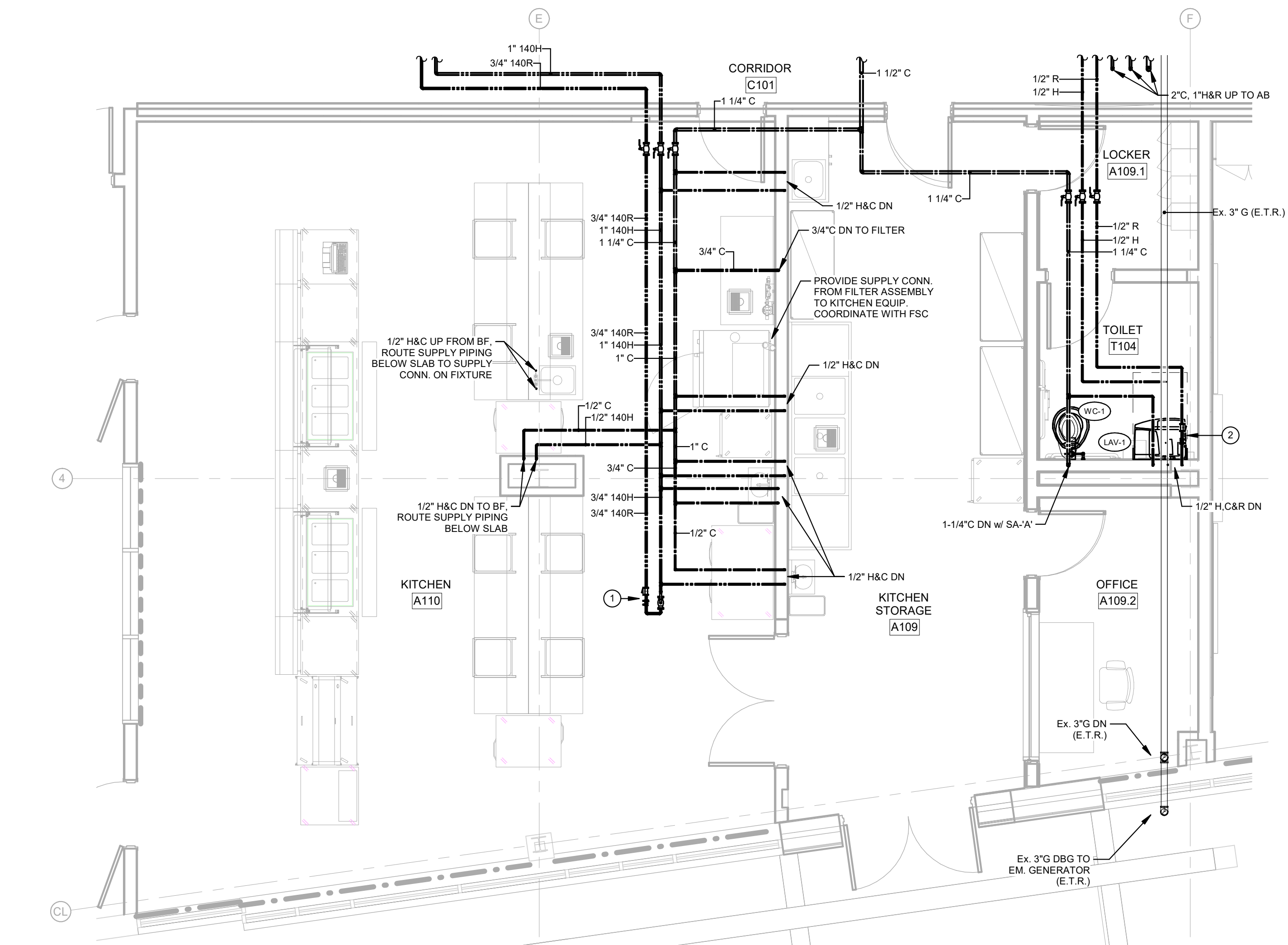
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P301 SCALE: 1/4" = 1'-0"



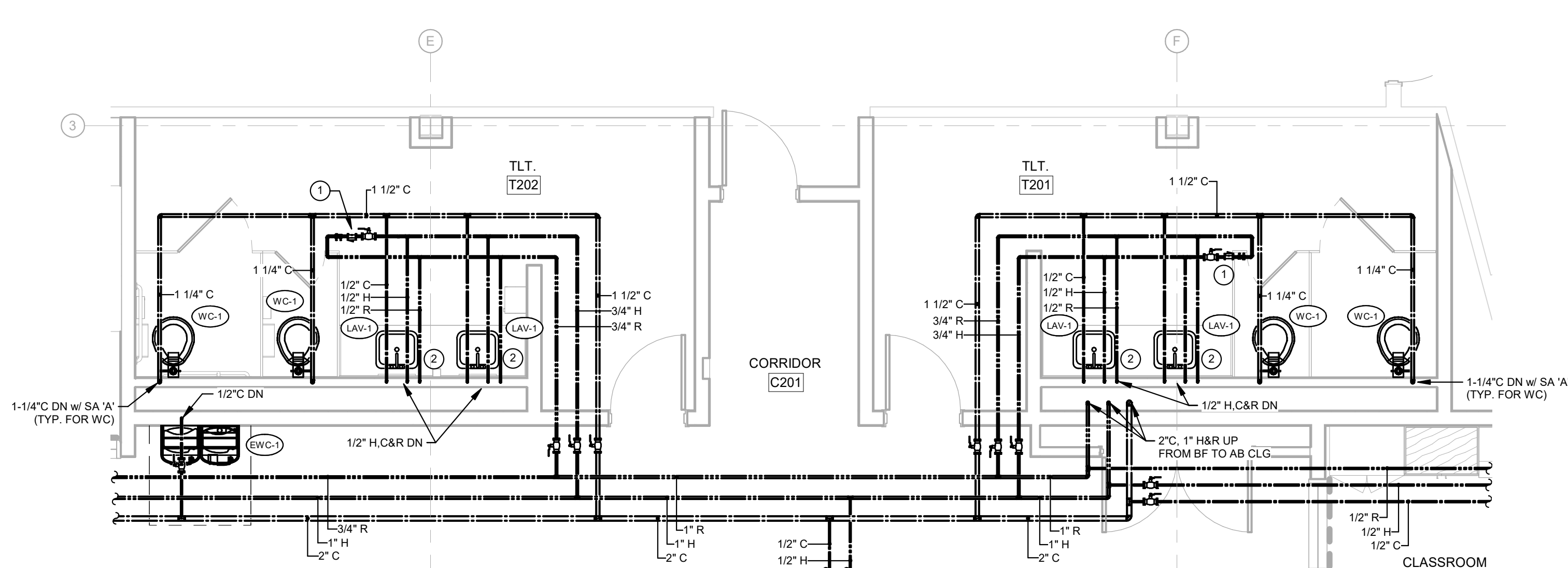
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P301 SCALE: 1/4" = 1'-0"



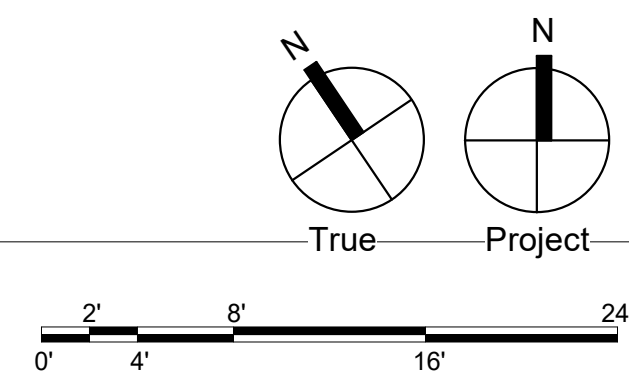
5 | ENLARGED FIRST FLOOR PLAN - SUPPLY PIPING
P301 SCALE: 1/4" = 1'-0"



7 | ENLARGED FIRST FLOOR PLAN - SUPPLY PIPING
P301 SCALE: 1/4" = 1'-0"



8 | ENLARGED SECOND FLOOR PLAN - SUPPLY PIPING
P301 SCALE: 1/4" = 1'-0"



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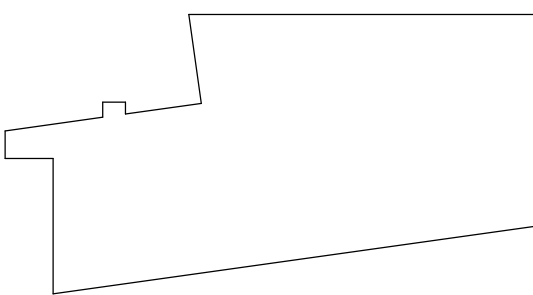
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Key Plan:

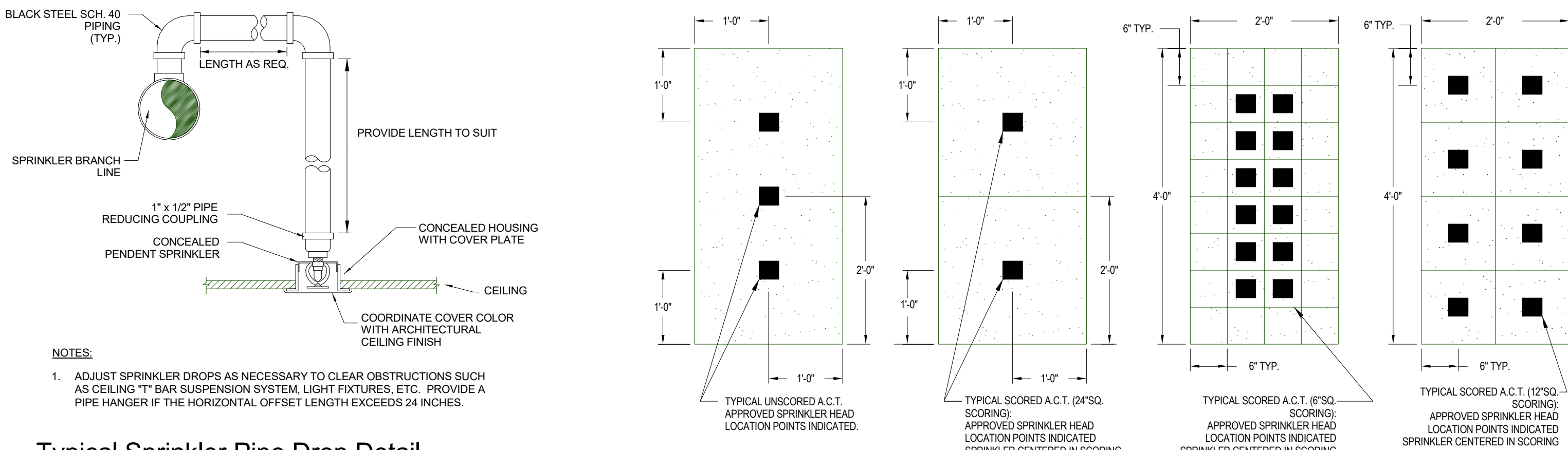


Drawing Title:

COVER SHEET - FIRE
PROTECTION

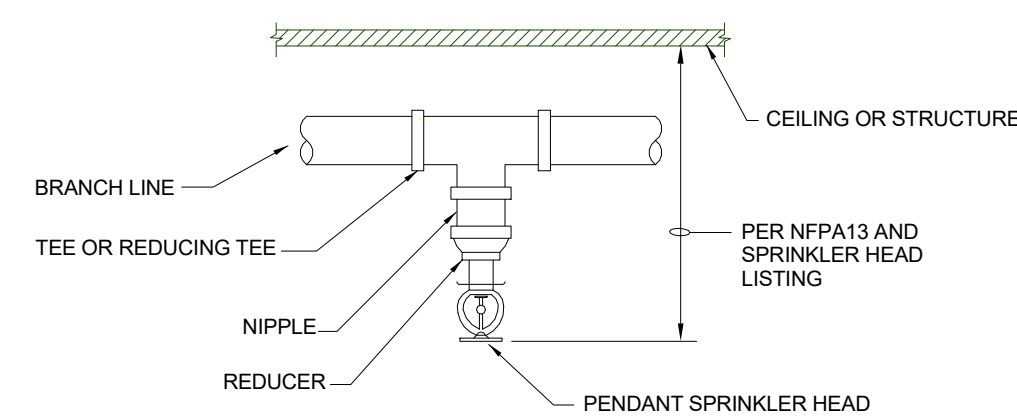
Drawing Number:

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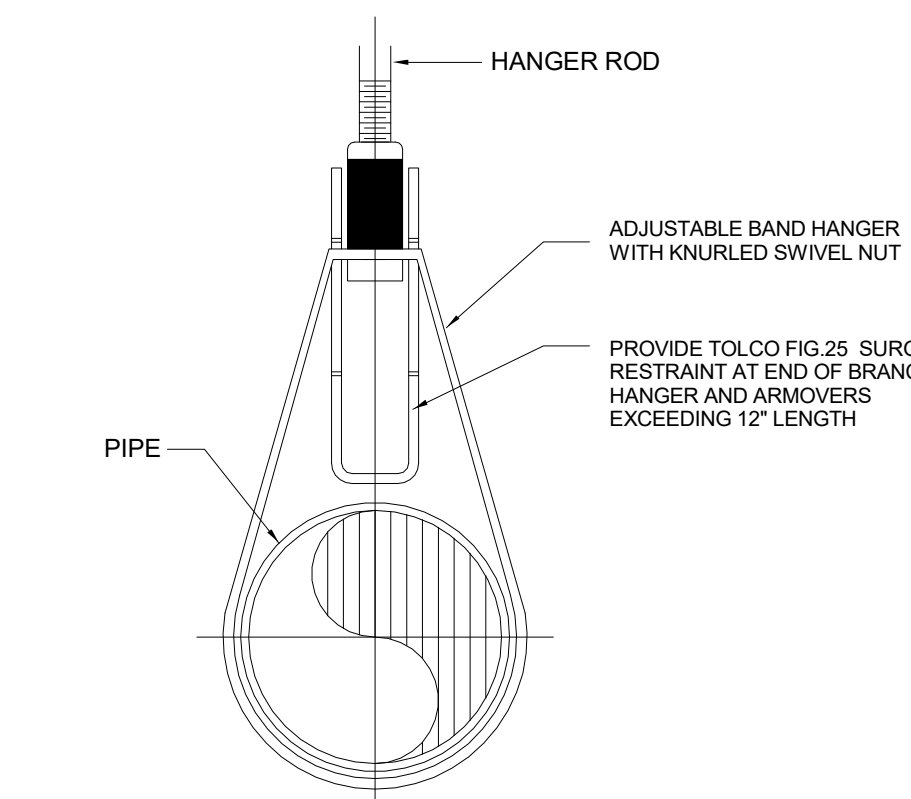
Typical Sprinkler Pipe Drop Detail
w/ Concealed Pendent Sprinkler Head

Scale: None



Typical Pendent Sprinkler Head Detail

Scale: None

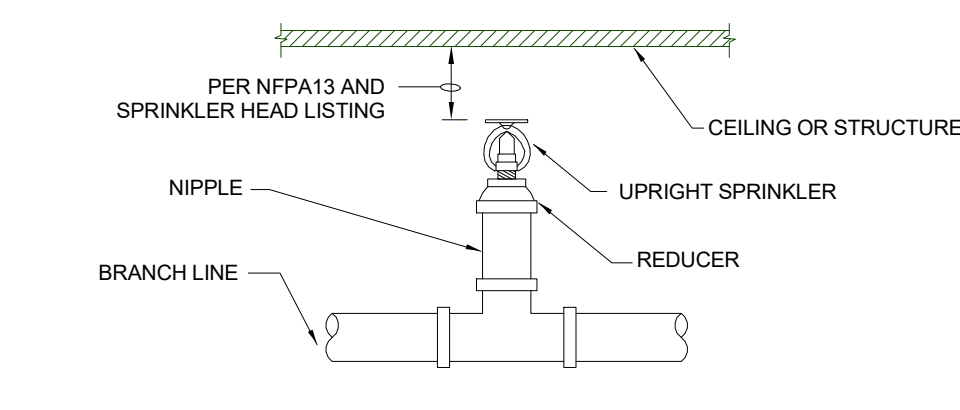


Typical Adjustable Band Hanger Detail -
Fire Protection Piping

Scale: None

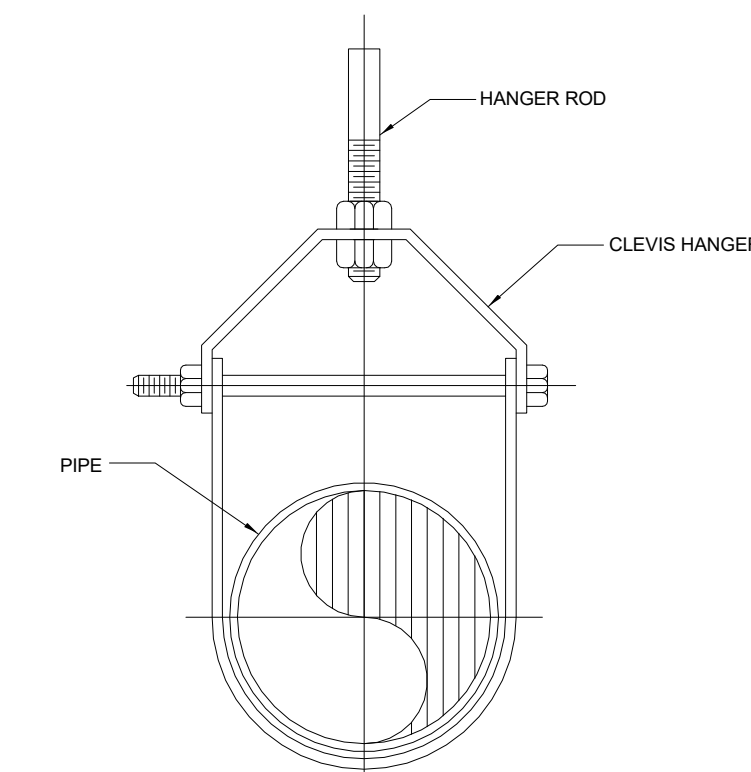
Typical A.C.T. Panel Approved Sprinkler Penetration Points

NO SCALE



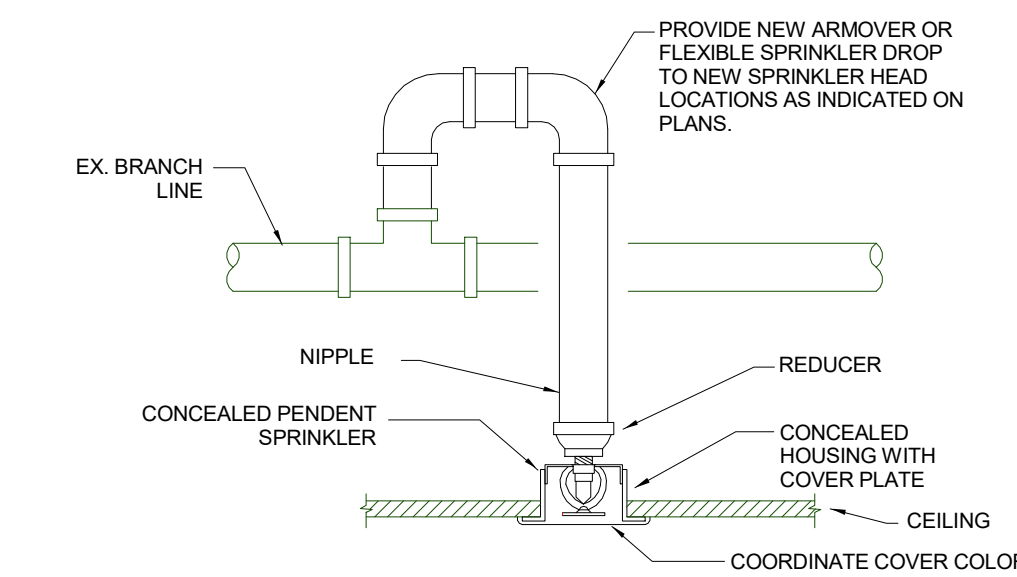
Typical Upright Sprinkler Head Detail

Scale: None



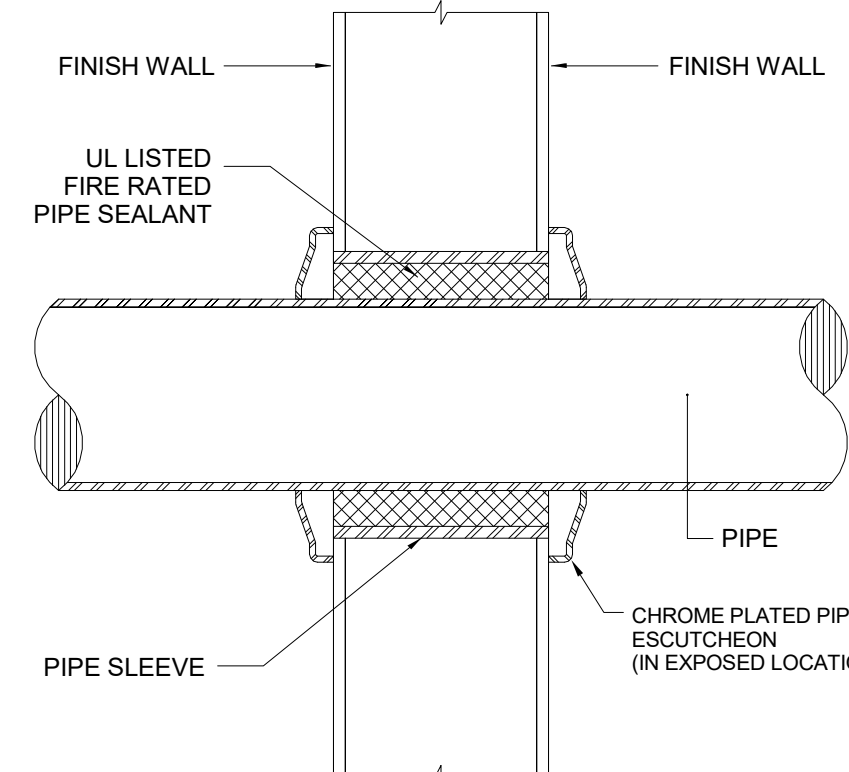
Typical Clevis Hanger Detail

Scale: None



Typical Concealed Pendent Sprinkler Head
w/Connection to Existing

Scale: None



Pipe Sleeve Through Wall Detail

Scale: None

FIRE PROTECTION - GENERAL NOTES

- The entire building shall be fully sprinklered. The sprinkler system shall be "design build" by the contractor in accordance with IBC2015 and NFPA 13 (latest edition), and inclusive of all additional requirements as indicated on the drawings and in the specifications. The system shall be hydraulically calculated to provide the pressure uniformly over the most remote area. Contractor shall prepare shop drawings and calculations and submit to the Architect/Engineer, and all reviewing agencies having jurisdiction including the owner's insurance carrier. The final approved submittal drawings prepared by the contractor shall bear a fire protection engineer's seal, whom is registered in the Commonwealth of Pennsylvania. No work shall begin until all approvals are granted.
Note: Schematic representation of some main and branch piping has been included on the attached contract drawings for space allocation and design coordination. Not all piping is shown and the contractor shall be responsible for a complete "design build" system and to provide all required piping and appurtenances as noted above.
- The contractor whom installs the system shall have a minimum of five (5) years successful installation experience on projects with fire protection systems similar to that required by this project.
- All sprinkler heads shall be "Quick Response" rated.
- No extended coverage heads shall be permitted on this project unless specifically noted as extended coverage on drawings.
- Exposed piping to be limited to areas noted on drawings and as approved by architect/tenant representative in field. Exposed piping shall be installed in a neat arrangement in inconspicuous locations. Where possible piping shall be installed within chases, soffits, and walls and coordinated with all trades prior to installation.
- Coordinate all piping, heads, equipment, etc, with all other trades in field prior to installation. All exposed piping shall be field coordinated with architect prior to installation. Field coordination shall take precedence over routing and details shown on FP submittal drawings. Any change in piping from that shown on the submittal drawings, resulting from field coordination, shall be completed at no additional cost to the owner. Prefabrication of FP piping off site or third party design of FP system does not relieve this contractor of any field coordination requirements.
- All sprinkler heads shall be located as shown on "Typical ACT Panel Approved Sprinkler Penetration Points" detail, unless noted otherwise. All sprinkler heads must be installed symmetrically with all other devices, equipment, etc. The contractor shall use the approved architectural reflected ceiling plans as the basis for his sprinkler head layout, any deviation from the drawing layout must be approved in advance by the Architect/Engineer.
- Contractor shall paint all exposed piping in color selected by Architect. Where painting of exposed piping is specified under separate contract, this contract shall include all preparation including cleaning, removal of rust, oil, or other contaminants on exposed piping.
- The contractor shall verify all ceiling construction types prior to ordering or installing any sprinkler heads as shown. Refer to details/specifications for sprinkler head manufacturers, models, and type to be used in each ceiling type.
- Sprinkler system design density for Offices, Toilet Rooms, Break Rooms, Typical Classrooms, Auditoriums, Libraries (except Large Stack Rooms) etc. shall be based on "Light Hazard Occupancy" classification. Maximum sprinkler coverage shall be 225 square feet per head, unless noted otherwise.
- Sprinkler system design density for Mechanical Rooms, Janitor Closets, Storage Rooms, Standard Science Rooms, Kitchens, etc. shall be based on "Ordinary Hazard I Occupancy" classification. Maximum sprinkler coverage shall be 130 square feet per head, unless noted otherwise.
- Sprinkler system design density for Stages, Libraries (Large stack room areas) shall be based on "Ordinary Hazard II Occupancy" classification. Maximum sprinkler coverage shall be 130 square feet per head, unless noted otherwise.
- Contractor shall provide additional heads and supply pipe required for proper sprinkler coverage both above and below HVAC duct work, suspended units, obstructions, etc. over 48" in width. Coordinate in field (NFPA 8-5.5.3.1).
- Contractor shall be responsible for providing sprinklers in all concealed spaces, as required by NFPA13 (latest edition) Chapter 8.
- This contractor shall provide vibration isolation and seismic restraint on fire piping as required by contract drawings, specifications, the requirements of NFPA 13 (latest edition) Chapter 9 "Hanging, Bracing, and Restraint of System Piping", all local code requirements, the International Building Code and International Fire Code (latest editions).
- Provide Inspectors Test Connections and drains as required by NFPA 13 (latest edition) Chapter 8 "Installation Requirements". Fire Protection Contractor shall pipe inspectors Test Connections piped to exterior of building or to an approved drain location (verify with local AHJ).
- Where sprinkler heads are installed in spaces with no ceilings or below ceilings exposed, provide sprinkler guards on these heads. Sprinkler guards shall have chrome finish unless directed otherwise by the Architect in field.
- Provide sleeves at all wall/floor penetrations. Coordinate sleeves with GC for installation in wall/floor construction. In exposed areas provide chrome plated escutcheons at pipe penetrations. Seal all fire rated floor and wall penetrations with fire stopping materials as specified in the Div. 7 specifications. Where firestopping materials are not specified in Div. 7, provide firestopping materials U.L. listed for use and as manufactured by 3m or equal.
- This Contractor is responsible for performing a Fire Flow Test on the Public Water Distribution System serving the building prior to beginning his design. The contractor shall coordinate all requirements for the flow test with the Water Authority. The Contractor shall use these test results as a basis of design for his hydraulic calculations for the building system.
- Contractor shall install all sprinkler piping in exposed area as high as possible within the ceiling space. Sprinkler branches shall be installed within bar joists, tight to bottom of joists or tight to bottom of beams.
- This Contractor shall install all sprinkler piping in exposed area as high as possible within the ceiling space. Sprinkler branches shall be installed within bar joists, tight to bottom of joists or tight to bottom of beams. This Contractor shall coordinate piping locations and elevations with all other trades and note elevations on the sprinkler submittal drawings. All piping shall be installed to freely drain back to mains. Where trapped piping is unavoidable, this contractor shall provide auxiliary drains in accordance with NFPA13 at lowpoints of all trapped piping. All auxiliary drains shall be clearly labeled and all locations shall be noted on the record drawings.
- Contractor shall verify and coordinate all sprinkler requirements for elevator shafts and elevator machine rooms with PA L&I, elevator installer, and local AHJ prior to installation. Field coordinate installation work between all trades. Branch piping serving sprinklers within elevator shafts and elevator machine rooms shall be provided with isolation valve, check valve, and testable "zero-delay" flow switch. coordinate wiring of zero-delay flow switch to initiate elevator recall or shunt trip power disconnect as required by NFPA-13, NFPA-72, PA L&I, elevator installer, and local AHJ.
- Contractor shall minimize all required shutdowns of existing building fire protection system. All required shutdowns of the existing building fire protection system shall be coordinated with the Owner. Contractor shall provide all necessary after hours labor required to coordinate required shutdowns with Owner and provide any required fire watch for the existing building during shutdown periods.
- Contractor shall verify manufacturer and models of sprinklers currently installed in the existing building sprinkler system. Where sprinklers of the type specified are currently installed in the existing building, the contractor shall provide sprinklers of the same make and manufacturer to reduce the required types of stock of sprinkler spares.

FIRE PROTECTION DEMOLITION - GENERAL NOTES

- Existing sprinkler heads and associated branch/supply piping to be removed in its entirety, as indicated by plans or required by scope of work. Contractor shall verify location of all branch piping and heads in field. Removals shall not be limited to only the piping on the demolition plans. Contractor shall field verify all conditions. Contractor shall notify architect / engineer of any piping not shown on removals prior to any demolition. None of the work shown on this plan shall be performed until new piping, equipment, etc. is installed and tested or necessary temporary connections are installed, tested and operational.
- Equipment and piping locations, quantity and conditions are approximate. Contractor shall field verify all conditions, locations and quantities prior to bid. These demolition drawings are intended to convey the basics of the existing system components. Not all conditions and components have been identified on these drawings.
- All existing Fire Protection sprinkler and standpipe systems (within the project scope of work and ancillary systems outside the project scope of work) shall remain functional for as long as required, until replaced with new, or reworked as required (see new work plans). Contractor may provide temporary connections and/or isolation valves in order to keep systems functioning properly and to eliminate the need for complete system drainage everytime work is performed on the existing system. All temporary isolation valves shall be removed at project completion or have handles removed and turned over to owner for safe keeping. Contractor shall provide fire watch or other fire prevention measures as required by the local AHJ and the Owner's insurance carrier during any periods where the existing system is deactivated to perform demolition or new connections at no additional cost to the owner. Contractor shall be aware that some work may be required to be performed after hours, weekends, or during vacation breaks. All demolition work shall be coordinated with the Owner/Architect to limit inconvenience or interruption of the normal workday schedule for this facility. Any demolition work done, by the Contractor, which affects the operation of this facility shall be replaced with new, repaired to original conditions or replaced by temporary means for however long as required, at no additional cost to the owner.
- The demolition plans are a general guide only. They are included to assist the contractor and do not include all work to be removed.
- The Contractor is responsible for removal of all existing materials etc. In the way of any new work, even if not indicated on the demolition plans to be removed.
- Contractor is responsible for protecting existing materials, equipment and finishes that are to remain.
- Contractor shall remove all items, fixtures, equipment that are to remain but conflict with the installation of any new work. The Contractor shall re-install the same items (or new if damaged during this task) once new work is completed.
- Contractor shall remove all of his demolition debris on a daily basis from all interior renovated areas as directed by the architect / owner.
- Where existing piping branches, laterals, etc. are called to be removed, the existing piping must be capped/plugged permanently where take-off from main occurs.
- The owner reserves the rights to all removed equipment, fixtures, materials, etc. Should the owner decide not to keep said items the Contractor shall remove these items from the site in an appropriate manner. Coordinate with Owners representative in field.

SPRINKLER HEAD LEGEND

- Concealed Pendant Type. See drawings for following option designations:
Designations:
DSY - Dry type with barrel length determined in field
EC - Extended Coverage
Cover colors:
W - White
Chrome
CC - Custom Color (Color as determined by Architect)
- Standard Pendant (P) or Upright (U) Type. See drawings for following option designations:
DSY - Dry type with barrel length determined in field.
DSR - Dry type, Semi-recessed
INST - Institutional, flush mount pendant type
EC - Extended Coverage
G - Guard
Colors:
Chrome
Brass
- Horizontal Sidewall Type. See drawings for following option designations:
C - Concealed
DSY - Dry type with barrel length determined in field.
DSR - Dry type, Semi-recessed with barrel length determined in field.
EC - Extended Coverage
G - Guard
Colors:
Chrome
Brass
- *Coordinate sprinkler head types with drawings, approved architectural reflected ceiling plans and field conditions. Resolve any conflicts with Architect/Engineer prior to installation.
*Heads designated as exposed standard upright and pendant type can be either pendant or upright as to best fit in final piping layout.
*Refer to Division 21 - "Fire Suppression" Specifications for detailed sprinkler specifications.

DESIGN CODE REFERENCES

PA - UCC	PENNSYLVANIA UNIFORM CONSTRUCTION CODE; 2018
IBC2018	ICC - INTERNATIONAL BUILDING CODE; 2018
IFC2018	ICC - INTERNATIONAL FIRE CODE; 2018 (AS REFERENCED IN INTERNATIONAL BUILDING CODE)

REFERENCED DESIGN STANDARDS

NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA 13	NATIONAL FIRE PROTECTION ASSOCIATION - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS; 2013 EDITION OR MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.
NFPA 14	NATIONAL FIRE PROTECTION ASSOCIATION - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS; 2013 EDITION OR MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS
NFPA 20	NATIONAL FIRE PROTECTION ASSOCIATION - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION; 2013 EDITION OR MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS
NFPA 24	NATIONAL FIRE PROTECTION ASSOCIATION - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES; 2013 EDITION OR MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS
NFPA 101	NATIONAL FIRE PROTECTION ASSOCIATION - 2015 EDITION OR CODE FOR SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES; MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.

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MEP:

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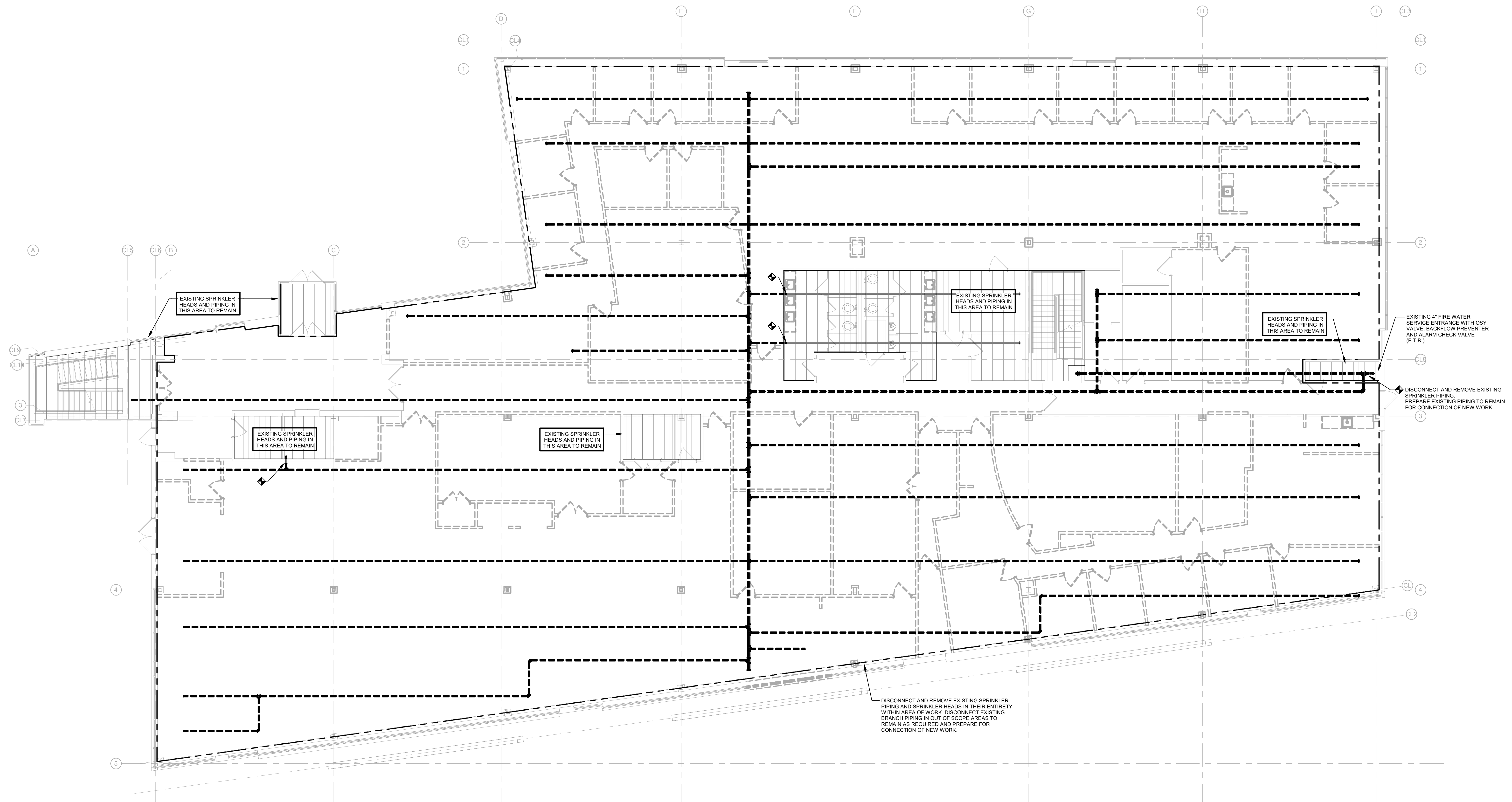
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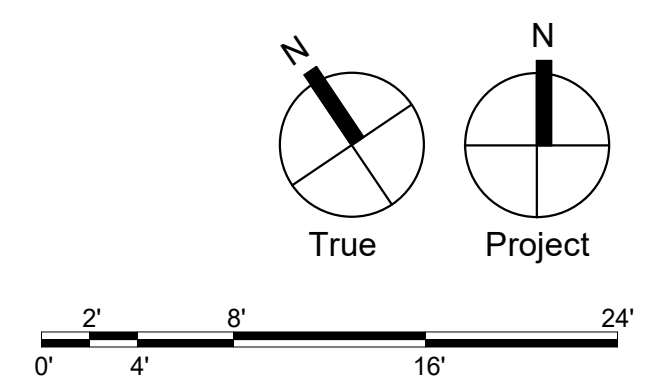
SG PROJECT NUMBER: 22-023.1

Drawing Number:

FPD101



1 FIRST FLOOR DEMOLITION PLAN - FIRE PROTECTION
FPD101 SCALE: 1/8" = 1'-0"



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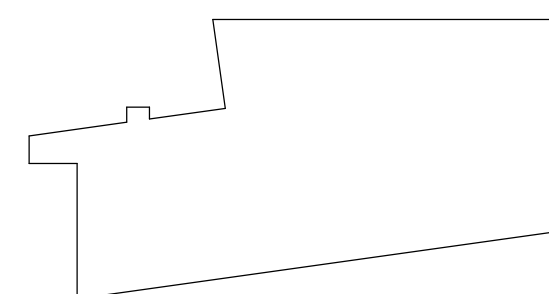
ISSUED FOR:

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Key Plan:

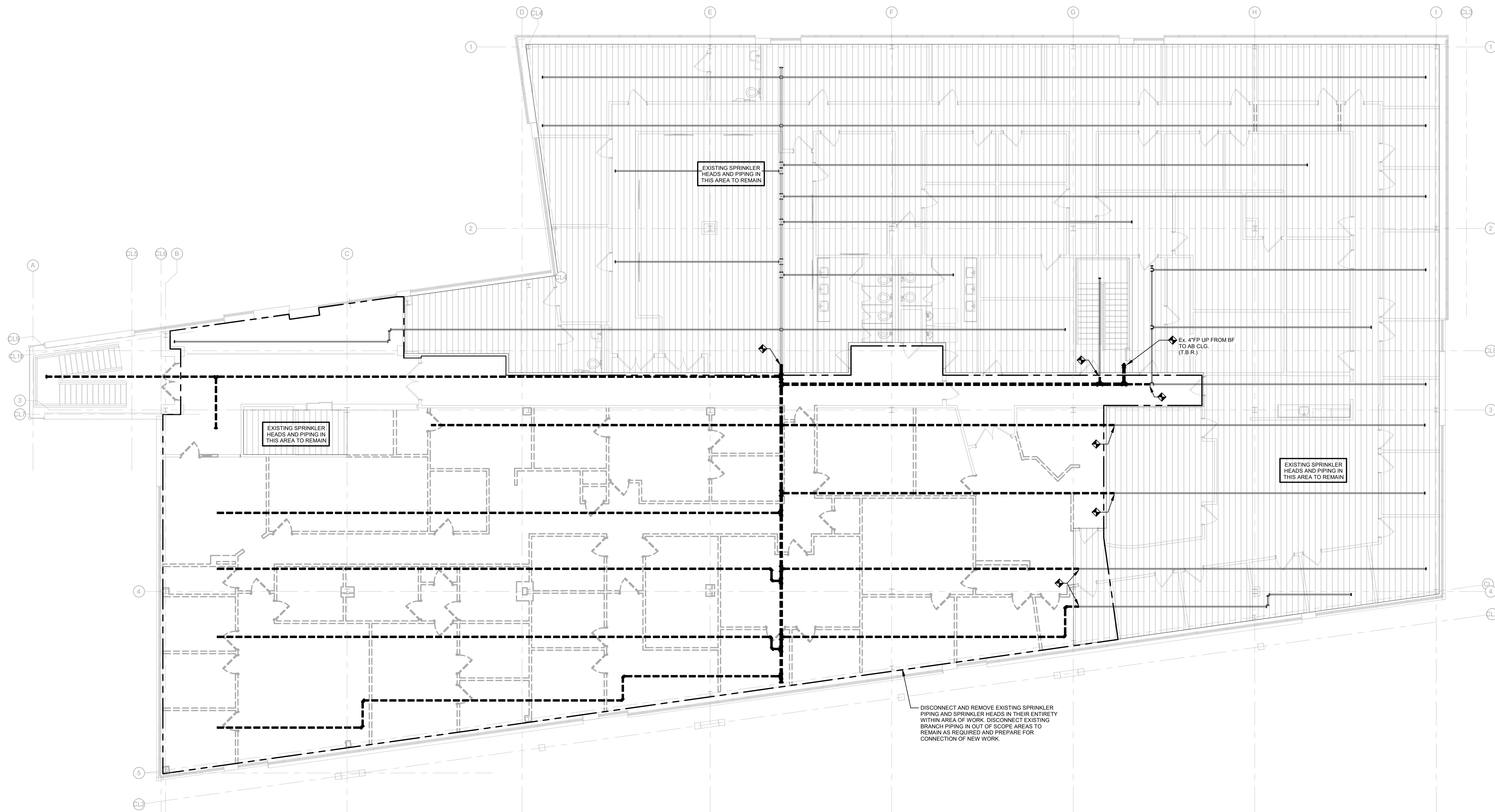


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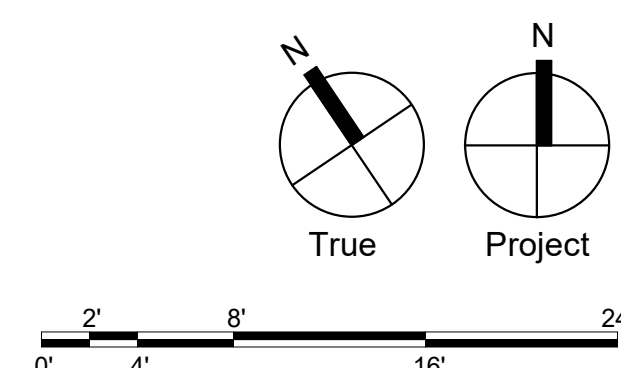
SECOND FLOOR DEMOLITION PLAN - FIRE PROTECTION

Drawing Number:

FPD102



1 SECOND FLOOR DEMOLITION PLAN - FIRE PROTECTION
FPD102 SCALE: 1/8" = 1'-0"



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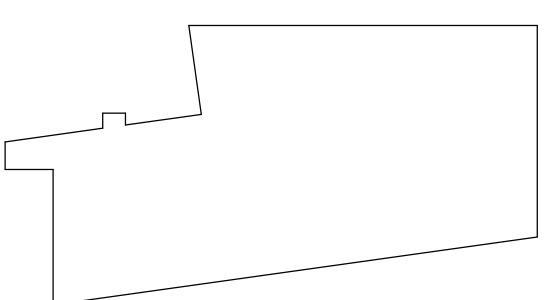
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[illegible]

DATE:	01/30/2023
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SG PROJECT NUMBER:	22-023.1
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Key Plan:

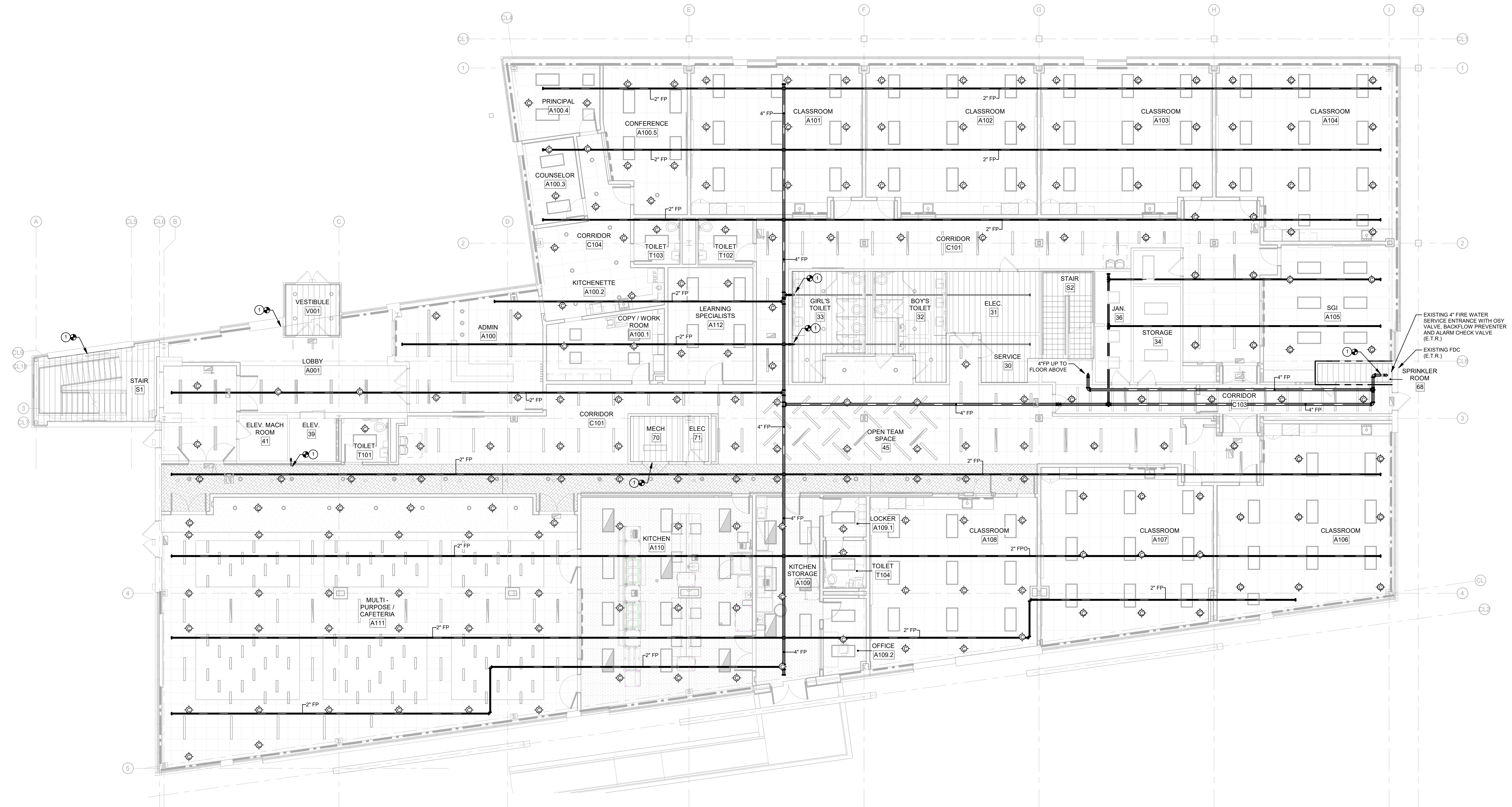


Drawing Title:

FIRST FLOOR PLAN - FIRE PROTECTION

Drawing Number:

FP101

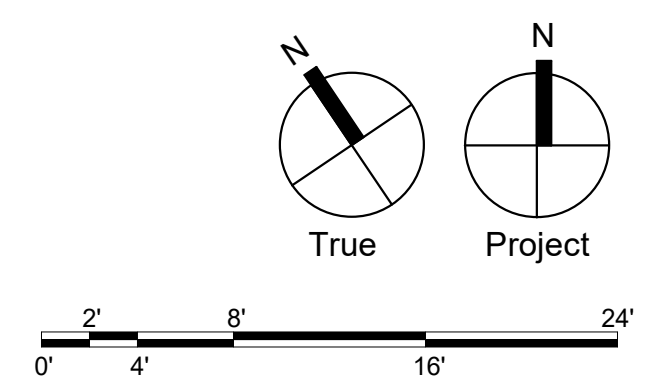


1 | FIRST FLOOR PLAN - FIRE PROTECTION

FP101 SCALE: 1/8" = 1'-0"

DRAWING NOTES - FIRE PROTECTION

- ① CONNECT NEW FIRE PROTECTION PIPING TO EXISTING PIPING LEFT FROM DEMOLITION WORK. ALL NEW FIRE PROTECTION PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE. COORDINATE ROUTING WITH ALL OTHER TRADES.



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SCHRADERGROUP
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Owner:
CHESTER UPLAND
SCHOOL DISTRICT
232 W. 9th Street
Chester, PA 19013

1350 EDMONT AVENUE
RENOVATIONS

1330 EDMONT AVENUE
CHESTER, PA 19013

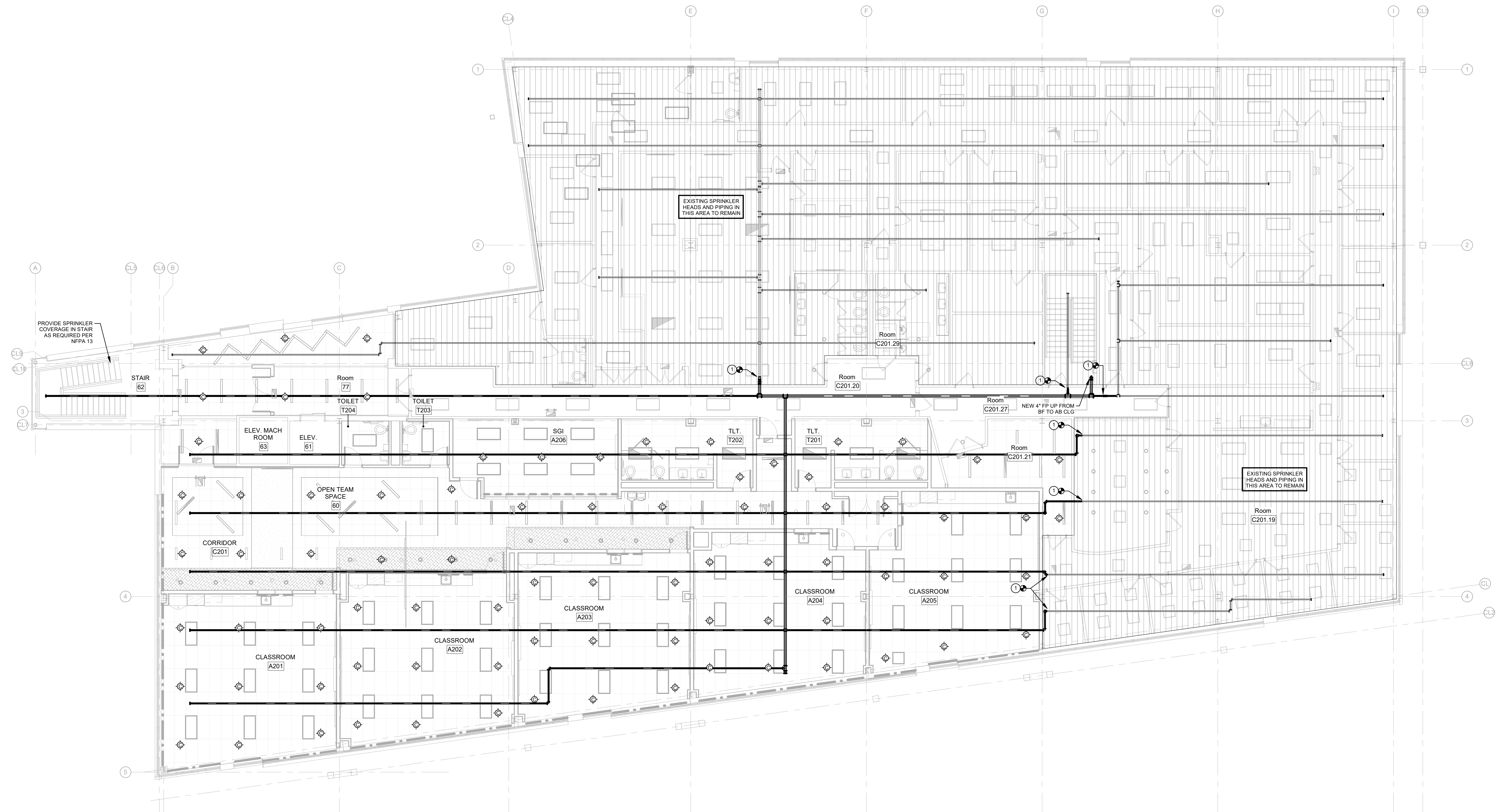
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DATE:	01/30/2023
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SG PROJECT NUMBER:	22-023.1
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SECOND FLOOR PLAN - FIRE PROTECTION

FP102

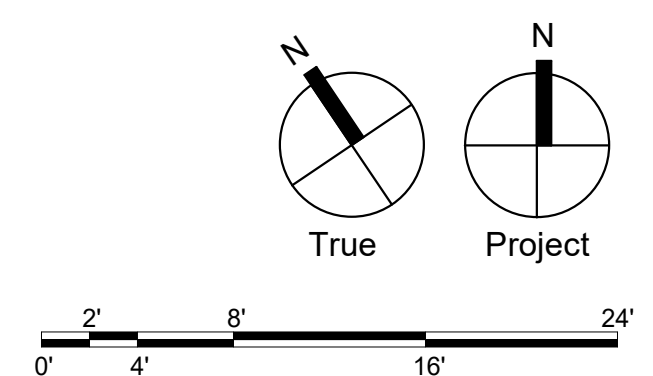


1 SECOND FLOOR PLAN - FIRE PROTECTION

FP102 SCALE: 1/8" = 1'-0"

DRAWING NOTES - FIRE PROTECTION

1. CONNECT NEW FIRE PROTECTION PIPING TO EXISTING PIPING LEFT FROM DEMOLITION WORK.
ALL NEW FIRE PROTECTION PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE.
COORDINATE ROUTING WITH ALL OTHER TRADES.



Civil

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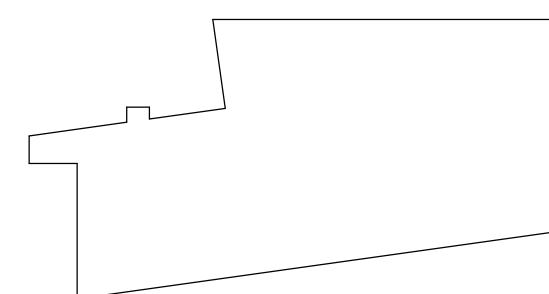
ISSUED FOR:

[illegible]

DATE: 01/30/2023

SG PROJECT NUMBER: 22-023.1

Key Plan:



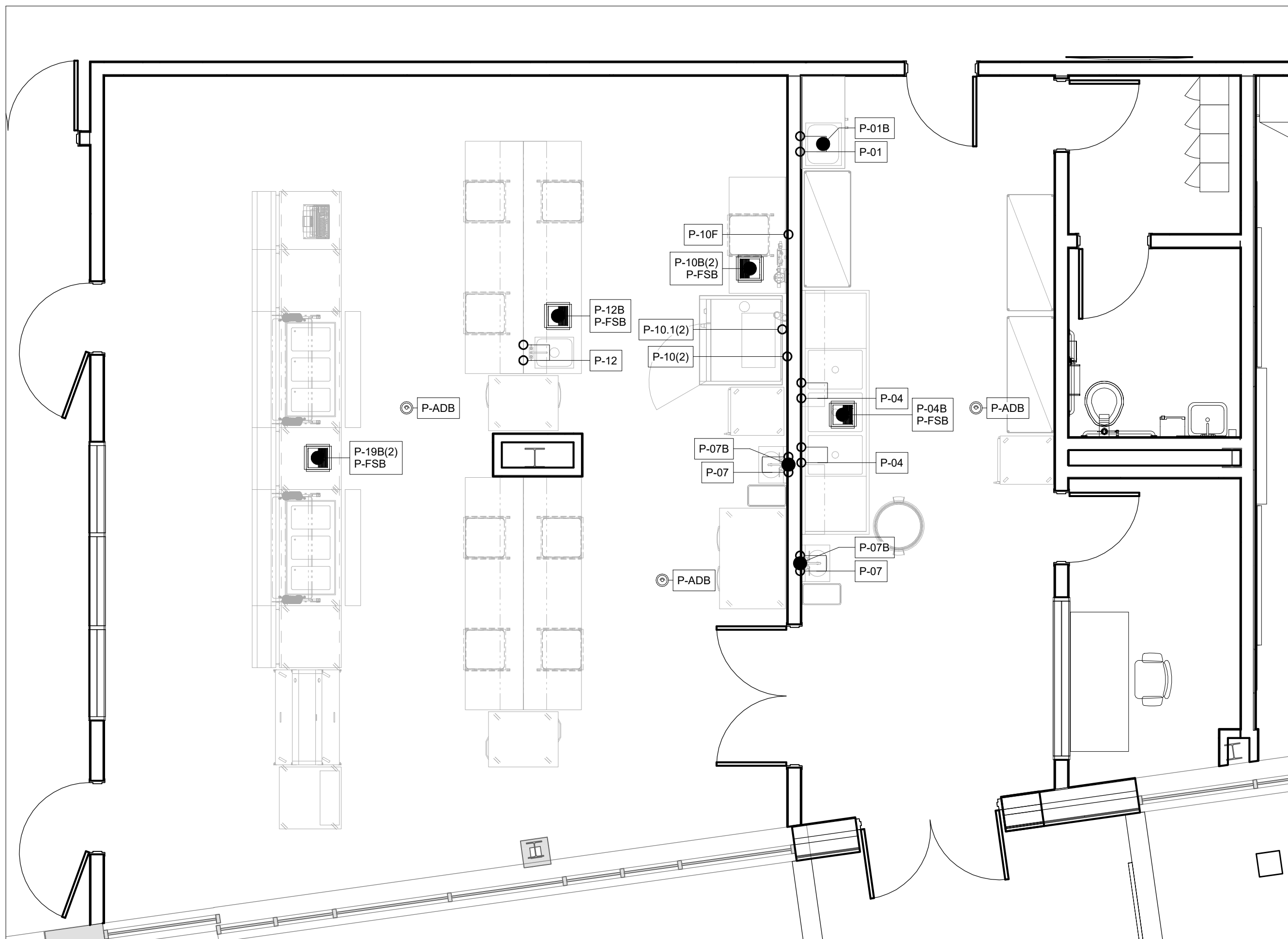
Drawing Title:

FOODSERVICE UTILITIES
PLANS AND SCHEDULES

Drawing Number:

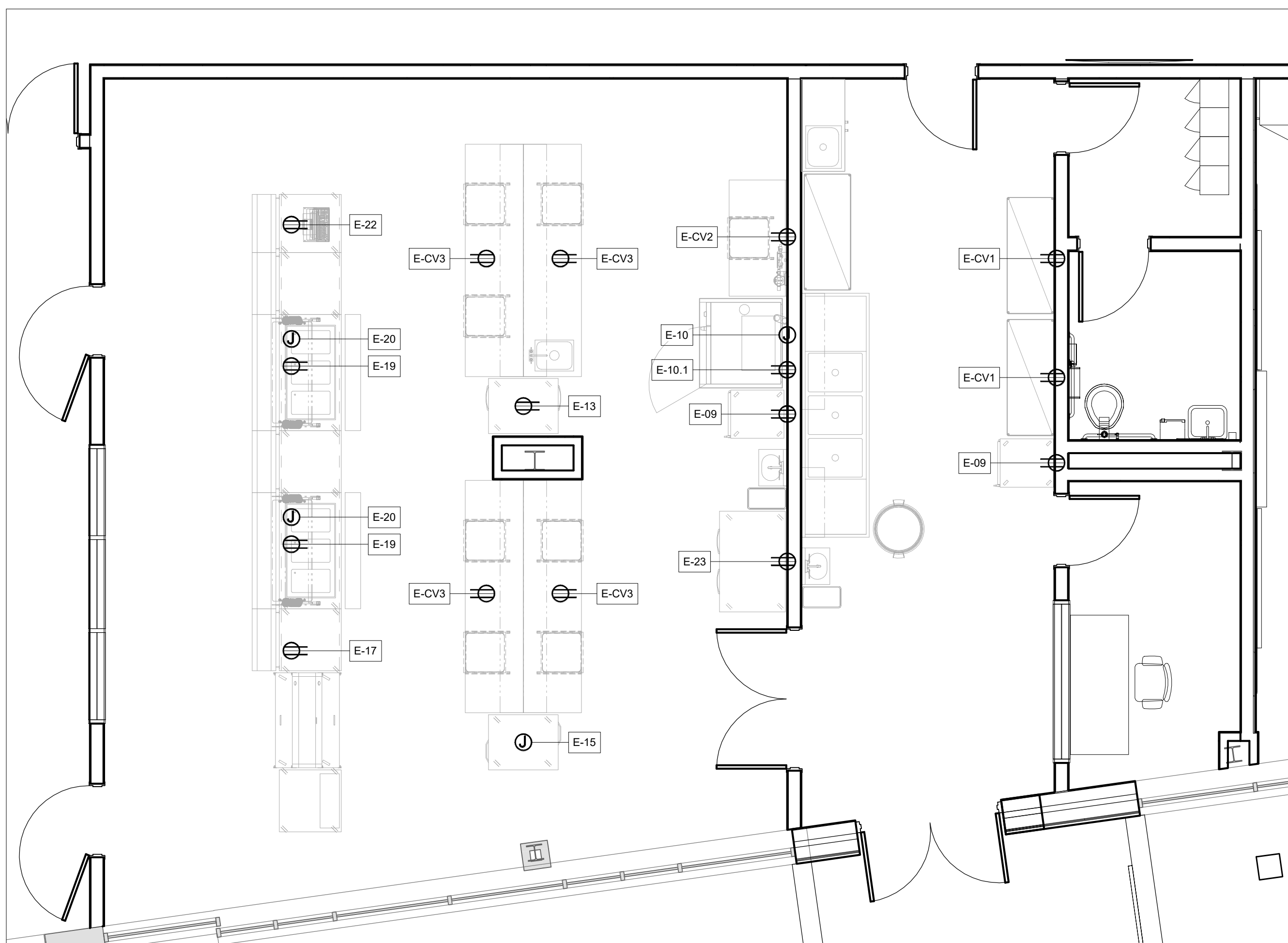
FS-1.1

FOODSERVICE ELECTRICAL SCHEDULE							
ITEM NO. [E]	AMPS	HP	VOLTS	PH	ELECTRICAL CONNECTION TYPE	ROUGH-IN HEIGHT	ELEC REMARKS
09	16.0 A		120V	3	NEMA 5-20P	4' - 0"	HOT/HOLDING CABINET
10	70.0 A		208/240V	1	DIRECT	4' - 0"	COMBI-OVEN, DBL STACKED, VENTLESS
10.1	8.0 A		120V	1	NEMA 5-15P	4' - 0"	
13	5.5 A	1/4	120V	1	NEMA 5-15P		
15	7.2 A		208-230V	1	DIRECT		
17	2.7 A	1/5	120V	1	NEMA 5-15P	0' - 6"	REFRIGERATOR, PASS-THRU
19	16.0 A		120V	1	NEMA 5-20P	0' - 6"	HEATED CABINET, PASS-THRU
20	18.6 A		120V	1	DIRECT	0' - 6"	MILK COOLER
22	12.0 A		120V	1	NEMA 5-20R	0' - 6"	DROP-IN, HOT/COLD/FREEZE
23	8.1 A	1/3	120V	1	NEMA 5-15P	4' - 0"	SNEEZE GUARD
CV1	12.0 A		120V	1	NEMA 5-20R	2' - 0"	P.O.S. SYSTEM
CV2	12.0 A		120V	1	NEMA 5-20R	4' - 0"	REFRIGERATOR, REACH-IN
CV3	12.0 A		120V	1	NEMA 5-20R		CONVENIENCE OUTLET
							CONVENIENCE OUTLET
							CONNECTION DOWN FROM ABOVE; RETRACTABLE RECEPTACLE PROVIDED BY OTHERS



2 | FOODSERVICE PLUMBING PLAN

FS-1.1 SCALE: 1/4" = 1'-0"



1 | FOODSERVICE ELECTRICAL PLAN

FS-1.1 SCALE: 1/4" = 1'-0"

