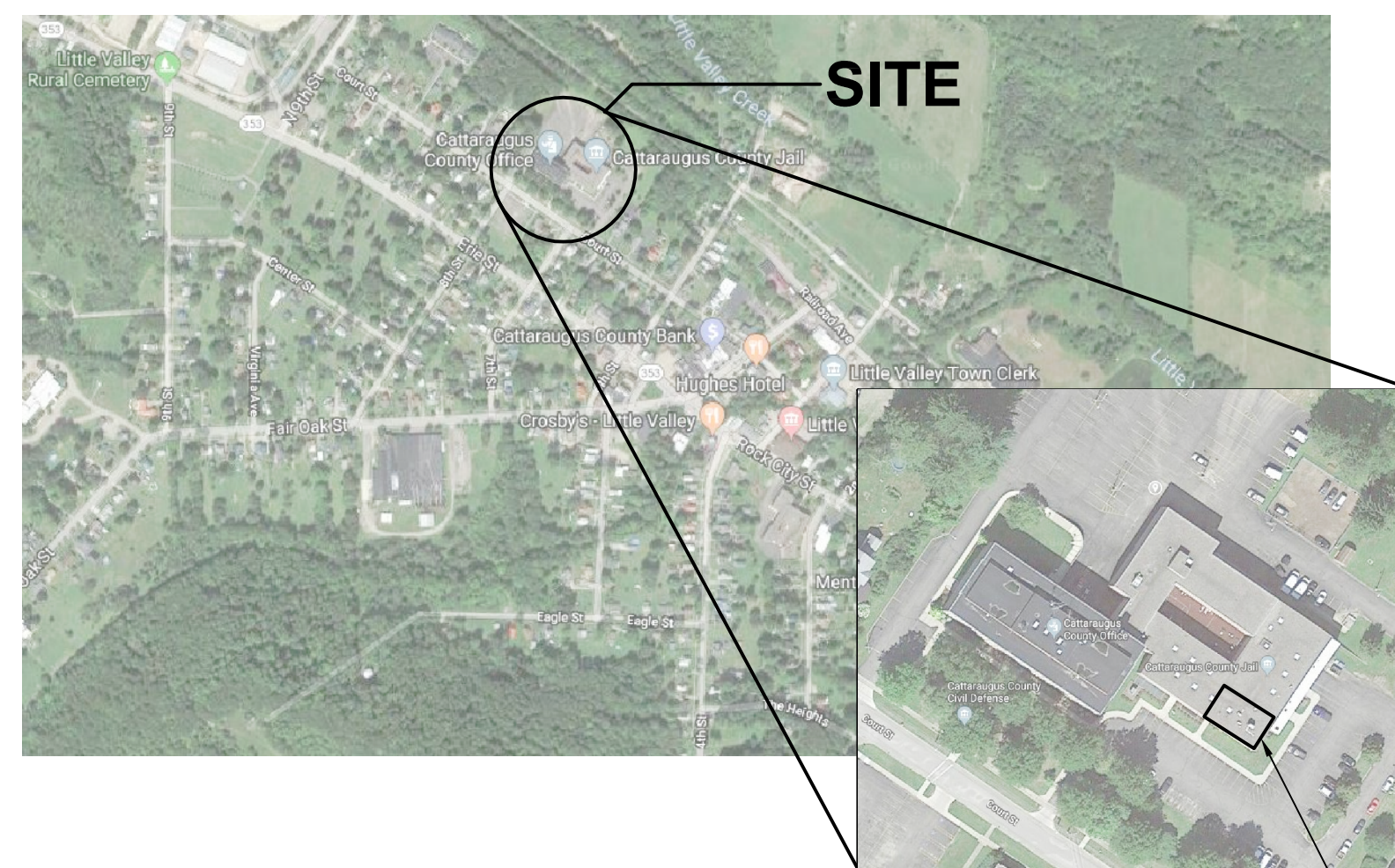




CATTARAUGUS COUNTY SHERIFF'S DEPARTMENT CALL CENTER FIRE PROTECTION IMPROVEMENTS

303 COURT ST.
LITTLE VALLEY, NY 14755

DPW BID #57
BID DOCUMENTS
August 29, 2018



PROJECT
LOCATION



Centerpointe Corporate Park
375 Essjay Road, Suite 200
Williamsville, NY 14221
www.wendelcompanies.com
p:716.688.0766 f:716.625.6825

Wendel Project No. 123456

DRAWING INDEX

COVERSHEET

FIRE PROTECTION

FP001 FIRE PROTECTION SYMBOLS, NOTES, ABBREVIATIONS,
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FP101 PARTIAL BASEMENT AND FIRST FLOOR FIRE PROTECTION
PLANS

ELECTRICAL

E001 ELECTRICAL SYMBOLS, NOTES AND ABBREVIATIONS
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CATTARAUGUS COUNTY
SHERIFF'S OFFICE FIRE
PROTECTION IMPROVEMENTS
BID DOCUMENTS



CS-000



1. THIS LEGEND SHEET IS FOR CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS AND/OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.
2. THE PLANS ARE DIAGRAMMATIC AND INDICATE ONLY THE SIZE AND GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. EXACT LOCATION OF ALL ELEMENTS SHALL BE DETERMINED AS WORK PROGRESSES, IN COOPERATION AND COORDINATION WITH THE WORK OF ALL OTHER TRADES. IT IS NOT INTENDED TO SHOW EVERY ITEM OF WORK OR MINOR PIECE OF EQUIPMENT, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL WITHOUT ADDITIONAL REMUNERATION ANY COMPONENT NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
3. ITEMS OF WORK OR EQUIPMENT SHOWN ON THE DRAWINGS ONLY, OR CALLED FOR IN THE SPECIFICATIONS ONLY, SHALL BE FURNISHED AND INSTALLED IN THE SAME MANNER AS IF THEY APPEARED ON BOTH THE DRAWINGS AND SPECIFICATIONS.
4. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATIONS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK WITH THAT OF OTHER CONTRACTORS.
5. INSTALL EQUIPMENT AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
6. ALL COSTS FOR CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOORS TO ACCOMMODATE THE INSTALLATION OF FIRE PROTECTION WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS INDICATED OTHERWISE. MATERIALS FOR RESTORATION OF EXISTING SURFACES SHALL MATCH THE EXISTING MATERIALS.
7. PIPES PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.
8. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
9. COMPLY WITH THE NEW YORK STATE BUILDING CODES, NFPA AND OTHER APPLICABLE CODES.
10. COORDINATE CONNECTION OF SUPERVISORY SWITCHES, FLOW SWITCHES, AND OTHER SIMILAR DEVICES TO THE FIRE ALARM SYSTEM.
11. FIRE PROTECTION SYSTEM SHALL BE A DESIGNATED DESIGN AS DEFINED IN THE SPECIFICATIONS. SYSTEM TO BE HYDRAULICALLY DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.

	FIRE PROTECTION PIPING (ABOVE GRADE)
	FIRE PROTECTION PIPING (BELOW GRADE)
	EXISTING FIRE PROTECTION PIPING
	FIRE PROTECTION DEMOLITION PIPING
	SHUT-OFF VALVE (GATE, BALL, ETC.)
	CHECK VALVE
	PRESSURE REDUCING VALVE
	STRAINER
	BRANCH CONNECTION - BOTTOM
	BRANCH CONNECTION - TOP
	ELBOW - TURNED DOWN
	ELBOW - TURNED UP
	CAP
	DIRECTION OF FLOW
	UPRIGHT SPRINKLER HEAD
	DRY PENDENT SPRINKLER HEAD
	CLEAN AGENT NOZZLE
	SPRINKLER HEAD EXISTING TO REMAIN
	SPRINKLER HEAD TO BE REMOVED
	BACKFLOW PREVENTER (BFP)
	OS&Y VALVE
	FLOW SWITCH
	POINT OF CONNECTION
	POINT OF DISCONNECTION

AC	AIR COMPRESSOR
AF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DPV	DRY PIPE VALVE
EC	ELECTRICAL CONTRACTOR
FACP	FIRE ALARM CONTROL PANEL
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
JP	JOCKEY PUMP
MC	MECHANICAL CONTRACTOR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW

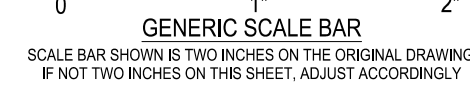


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NO.	REVISIONS	DATE

DWG. TITLE

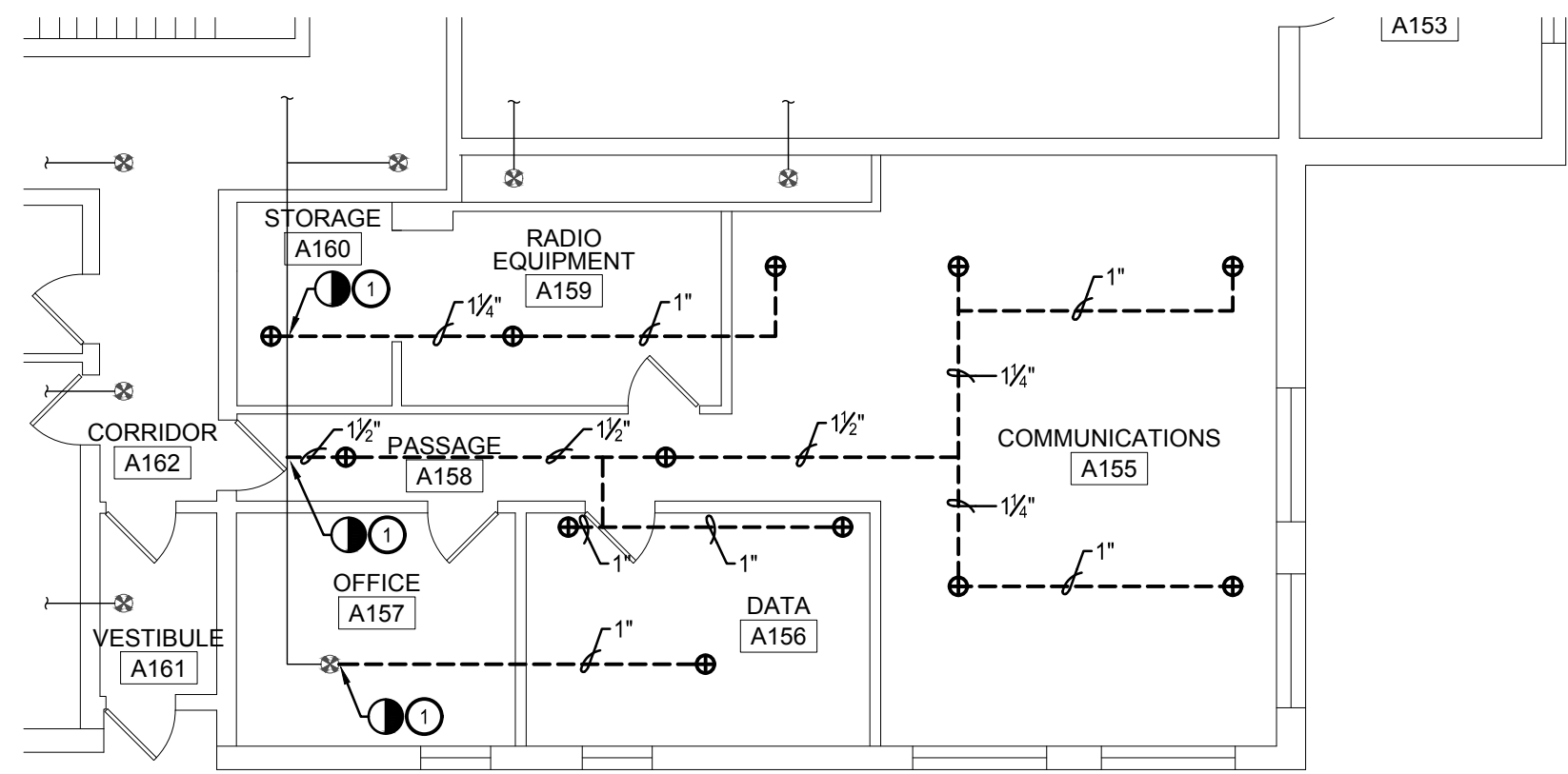
FIRE PROTECTION SYMBOLS, NOTES, ABBREVIATIONS, DETAILS AND SCHEDULES



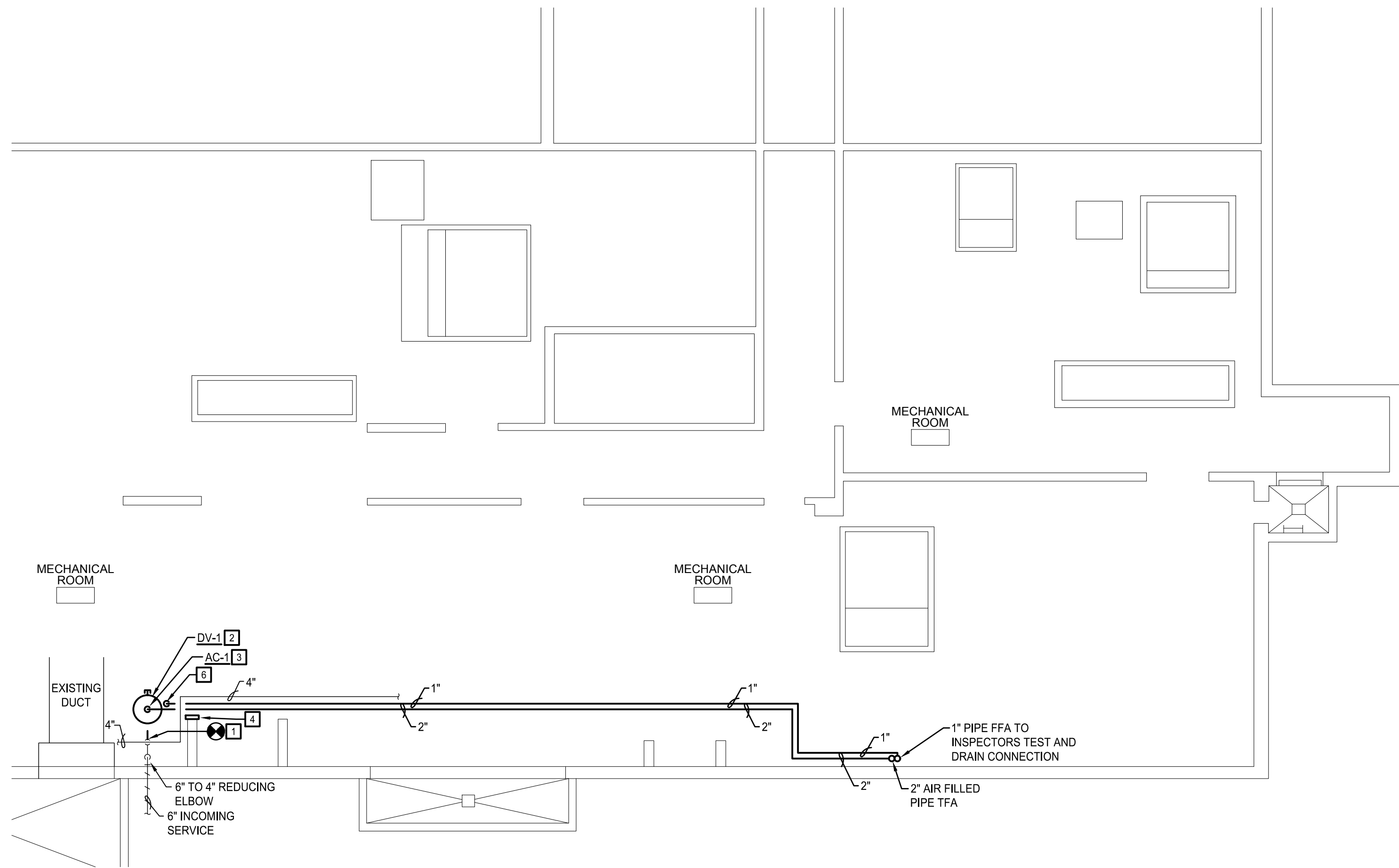
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DVIG. No

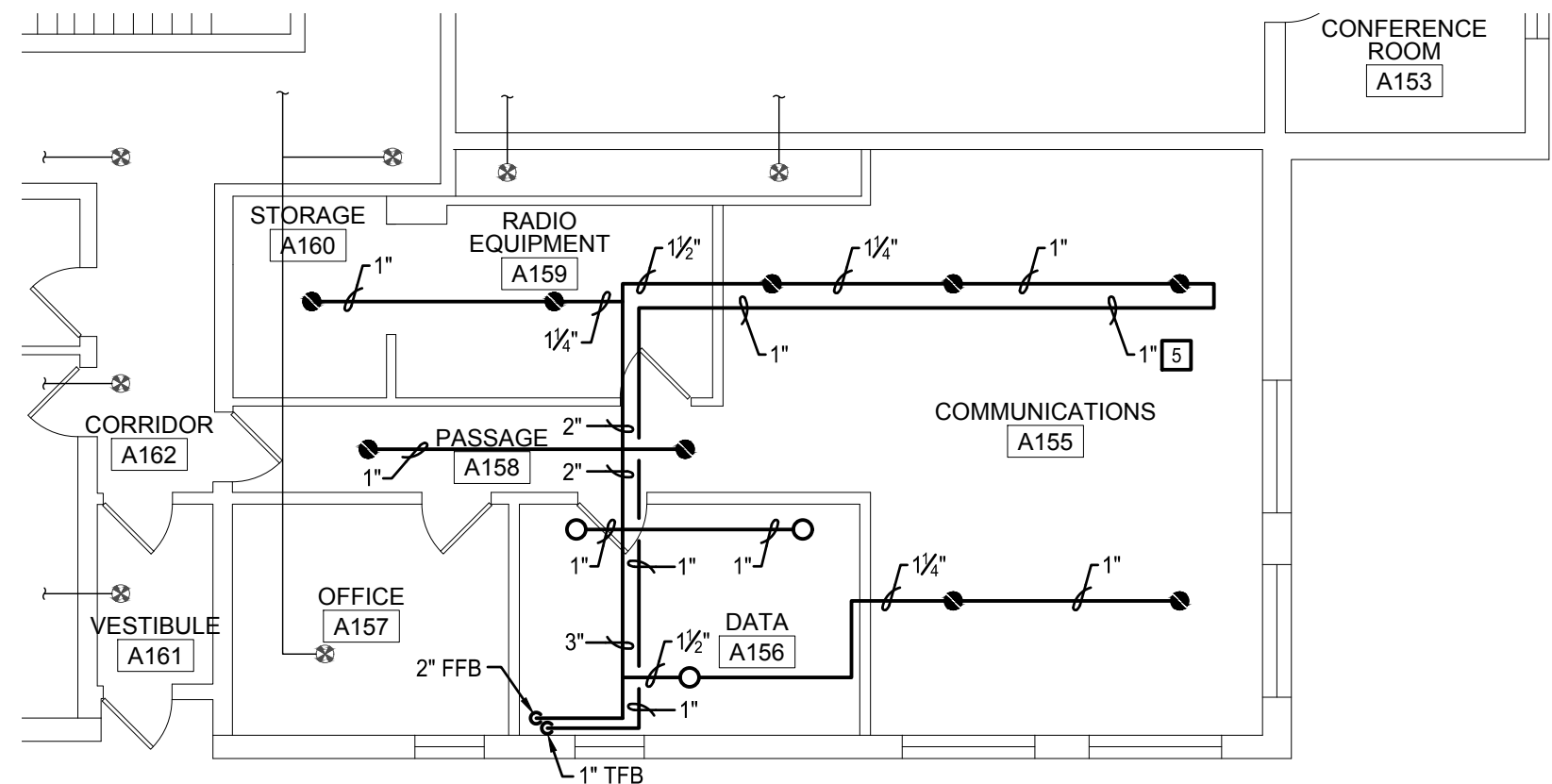
FP001



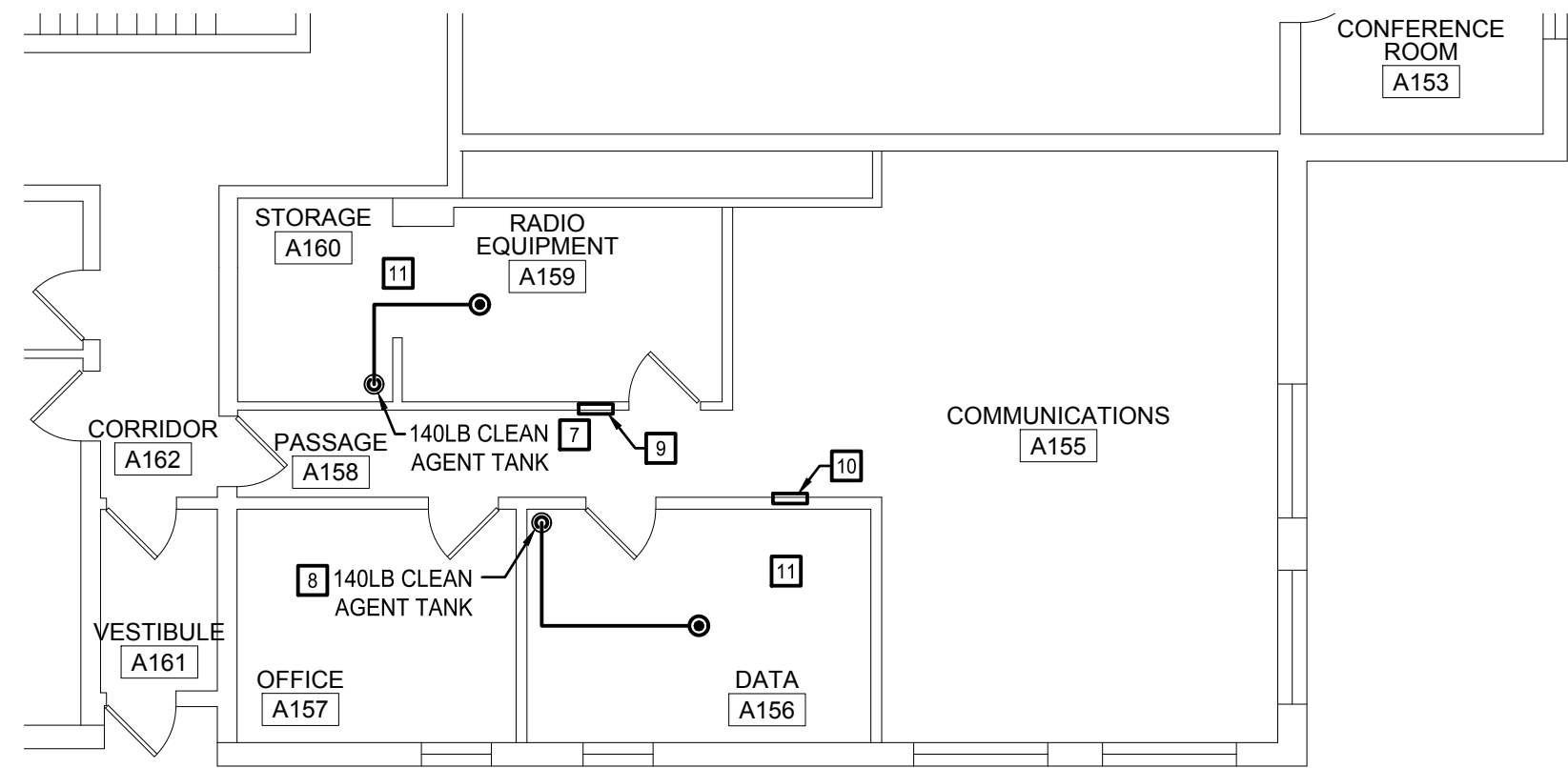
1 FIRST FLOOR WET SYSTEM DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2 BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"



3 FIRST FLOOR DOUBLE INTERLOCK PREACTION PLAN
SCALE: 1/8" = 1'-0"



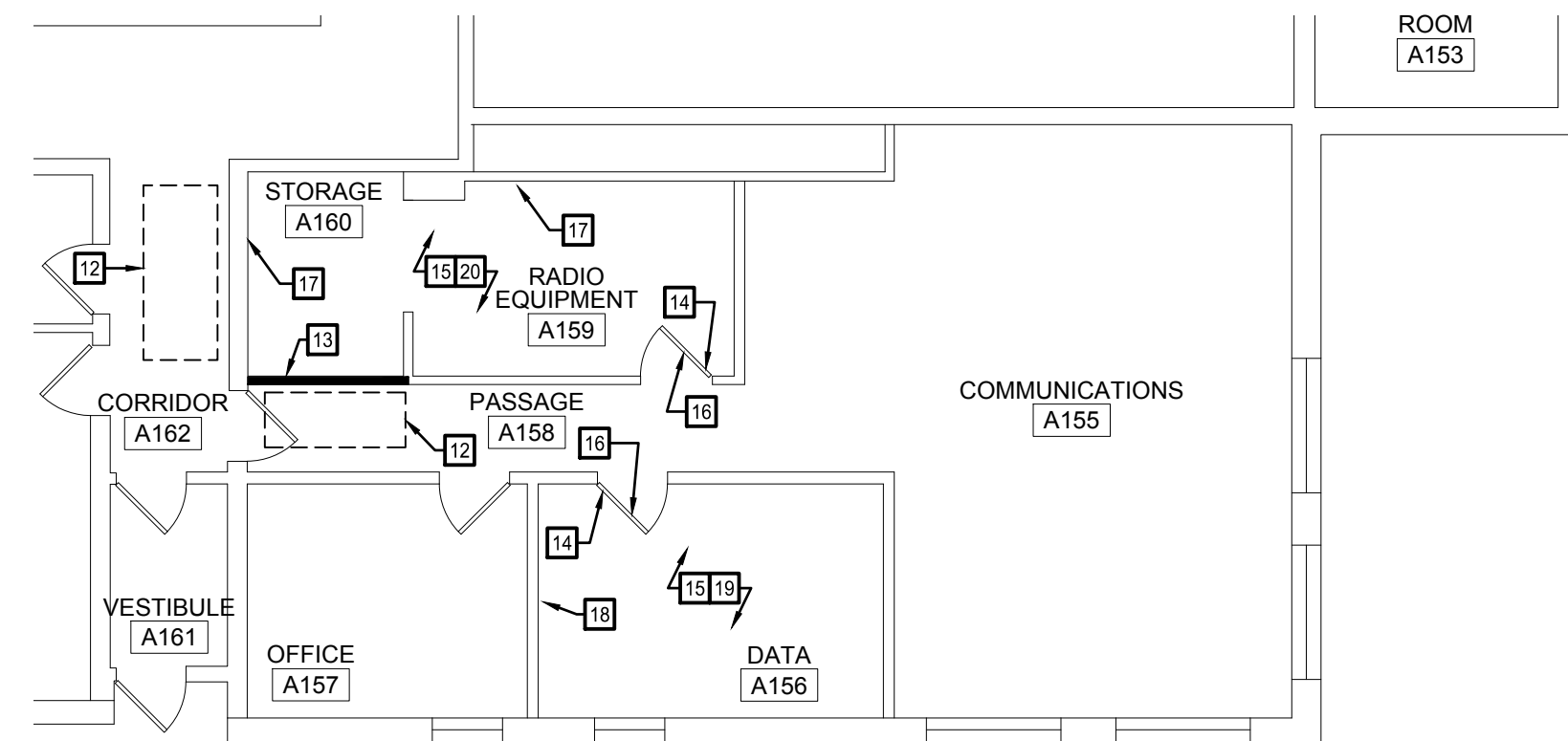
4 FIRST FLOOR CLEAN AGENT PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

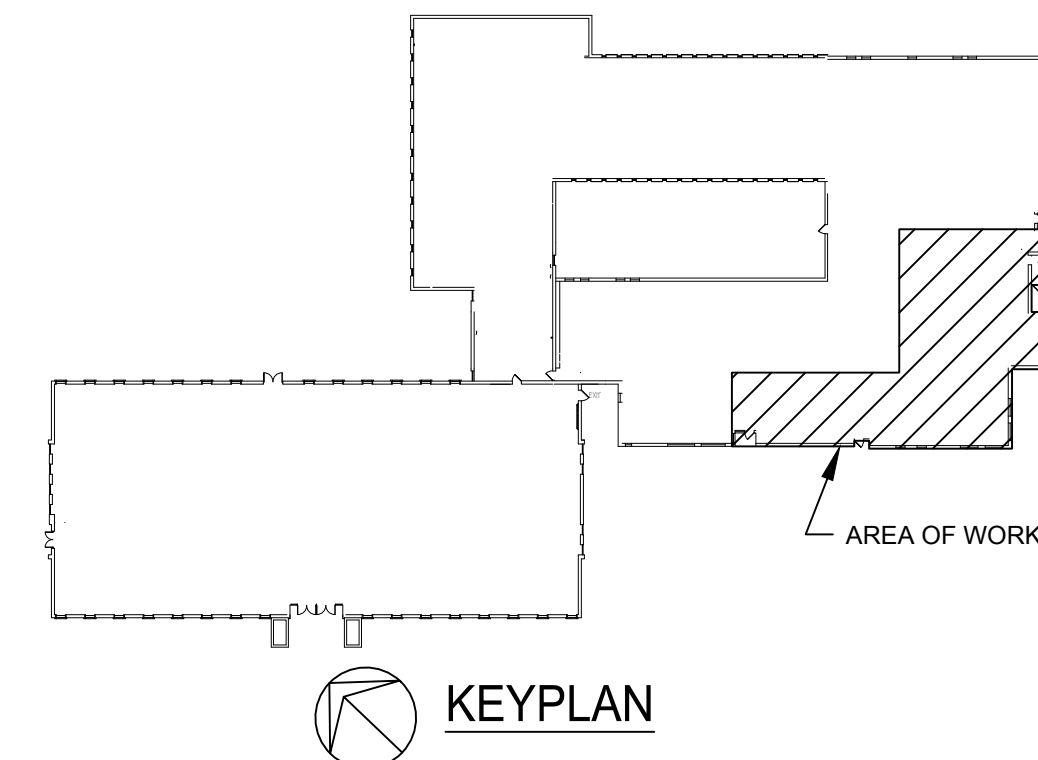
- REMOVE EXISTING SPRINKLER PIPING AND ASSOCIATED SPRINKLER HEADS BACK TO POINT OF DISCONNECTION AS SHOWN AND CAP.

CONSTRUCTION NOTES

- TIE INTO EXISTING WATER SERVICE PIPING AT POINT OF CONNECTION SHOWN. EXISTING ELBOW ON BOTTOM SIDE OF WATER SERVICE SHALL BE REPLACE WITH A TEE FITTING TO ALLOW TIE-IN.
- PROVIDE DRY PIPE VALVE AND TRIM IN RISER. REFER TO DOUBLE INTERLOCK PREACTION SYSTEM RISER DETAIL AND DRY PIPE VALVE SCHEDULE ON FP001 FOR ADDITIONAL INFORMATION.
- PROVIDE RISER MOUNTED AIR COMPRESSOR ABOVE DRY PIPE VALVE. REFER TO DOUBLE INTERLOCK PREACTION SYSTEM RISER DETAIL AND AIR COMPRESSOR SCHEDULE ON FP001 FOR ADDITIONAL INFORMATION.
- PROVIDE CONTROL PANEL FOR DOUBLE INTERLOCK PREACTION SYSTEM AND LOCATE ON FACE OF BLOCK WALL AS INDICATED. REFER TO DOUBLE INTERLOCK PREACTION SYSTEM RISER DETAIL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 1" PIPING TO INSPECTORS TEST AND DRAIN VALVE LOCATED IN BASEMENT.
- INSPECTORS TEST AND DRAIN VALVE LOCATED IN RISER. ROUTE DRAIN PIPING FROM DISCHARGE OF VALVE TO NEAREST FLOOR DRAIN. PROVIDE FUNNEL ATTACHMENT FOR NEAREST FLOOR DRAIN TO CATCH WATER DISCHARGING FROM PIPE.
- PROVIDE 140LB, 360 PSI. CLEAN AGENT TANK FOR SERVICE OF THE RADIO EQUIPMENT ROOM. PROVIDE TANK WITH WALL MOUNTING BRACKET AND FILL WITH 79LBS OF NOVEC 1230. REFER TO DETAIL ON DRAWING FP001 FOR CLEAN AGENT SYSTEM COMPONENTS.
- PROVIDE 140LB, 360 PSI. CLEAN AGENT TANK FOR SERVICE OF THE DATA ROOM. PROVIDE TANK WITH WALL MOUNTING BRACKET AND FILL WITH 67LBS OF NOVEC 1230. REFER TO DETAIL ON DRAWING FP001 FOR CLEAN AGENT SYSTEM COMPONENTS.
- PROVIDE AGENT RELEASE CONTROL PANEL FOR RADIO EQUIPMENT ROOM SEMI-RECESSED INTO THE CORRIDOR WALL. ONLY 2 INCHES OF THE PANEL ARE PERMITTED TO PROJECT INTO THE CORRIDOR.
- PROVIDE AGENT RELEASE CONTROL PANEL FOR DATA ROOM, SEMI-RECESSED INTO THE CORRIDOR WALL. ONLY 2 INCHES OF THE PANEL ARE PERMITTED TO PROJECT INTO THE CORRIDOR.
- ROOM PRESSURIZATION TEST SHALL BE CONDUCTED IN ACCORDANCE WITH NFPA2001. IF TEST RESULTS IN LEAKAGE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SEALING THE PROTECTED SPACES. AN ADDITIONAL PRESSURIZATION TEST SHALL BE CONDUCTED AT NO ADDITIONAL CHARGE UNTIL THE SPACE IS PROVEN TO BE SEALED CORRECTLY.
- REMOVE SECTION OF EXISTING GYPSUM CEILING IN CORRIDOR AS NECESSARY, TO FACILITATE WORK ABOVE THE CEILING. PATCH CORRIDOR CEILING TO MATCH ADJACENT CEILING WHEN WORK ABOVE IS COMPLETE AND PAINT.
- PROVIDE STUD FRAMING AND GYPSUM WALL BOARD TO EXTEND WALL UP TO DECK APPROXIMATELY 70" LONG AND 36" HIGH. EXISTING CMU WALL ENDS JUST ABOVE CEILING AND IS OPEN BETWEEN PASSAGE AND STORAGE ROOM. WALL SHALL BE EXTENDING UP TO CONCRETE DECK TO PROVIDE AN AIRTIGHT SEAL FOR STORAGE ROOM. GWB TO OVERLAP CMU AND BE INSTALLED ON PASSAGE SIDE. PROVIDE CONTINUOUS SEALANT AROUND EDGE OF GWB.
- PROVIDE NORTON DOOR CLOSER MODEL 8501M OR EQUAL FOR EXISTING 36" X 83" WOOD DOOR. PROVIDE CLOSER WITH PARALLEL ARM, BASE PLATE AND BRACKETS AS NECESSARY TO ATTACH TO DOOR. DOOR CLOSER SHALL HAVE ALUMINUM FINISH (689).
- PROVIDE SEALANT FOR ALL JOINTS AND PENETRATIONS ABOVE CEILING TO CREATE AN AIR-TIGHT SPACE. PROVIDE AMERICAN POLYWATER FST FOAM DUCT SEALANT OR SIMILAR FOR SEALING WITHIN CONDUIT AND ELECTRICAL SLEEVES. PROVIDE SILICONE CAULK SEALANT FOR SMALL GAPS UP TO AND INCLUDING 1" WIDE. PROVIDE CLOSED CELL FOAM SEALANT FOR GAPS LARGER THAN 1" UP TO 4". PROVIDE GYPSUM BOARD AND PATCH OPENINGS LARGER THAN 4".
- PROVIDE PERIMETER GASKETING AND RUBBER BOTTOM DOOR SWEEP FOR EXISTING 36" X 83" WOOD DOOR. PRODUCTS USED SHALL ENSURE THAT ROOM IS SEALED AIR TIGHT.
- PROVIDE AIR-TIGHT SEAL AROUND EXISTING 38 x 16 DUCT. INFILL, PATCH AND SEAL AS REQUIRED TO SEAL SPACE.
- SEAL 8" DIAMETER OPENING WITH GWB. OVERLAP EXISTING GWB A MINIMUM OF 1". PROVIDE CONTINUOUS SEALANT AROUND EDGE OF GWB.
- REMOVE AND REPLACE EXISTING METAL CEILIGN PANELS TO GAIN ACCESS ABOVE. DISCONNECT AND RECONNECT ELECTRICAL GROUND WIRE AS REQUIRED.
- REMOVE AND REPLACE EXISTING ACT AND GRID AS NECESSARY TO GAIN ACCESS ABOVE.



5 FIRST FLOOR CEILING PLAN
SCALE: 1/8" = 1'-0"



303 COURT STREET
LITTLE VALLEY, NY 14755

SHERIFF'S DEPARTMENT
CALL CENTER
FIRE PROTECTION
IMPROVMENTS

BID DOCUMENTS



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NO.	BID DOCUMENTS	8/29/2018
NO.	REVISIONS	DATE

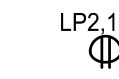
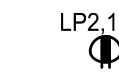
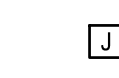

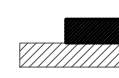
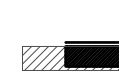

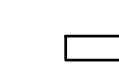
DWG. TITLE
PARTIAL BASEMENT
AND FIRST FLOOR
FIRE PROTECTION
PLANS

DATE	08-29-2018
SCALE	AS NOTED
DWN.	CBC
PROJ. No.	307661
DWG. No.	





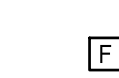
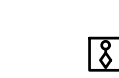


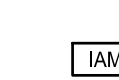

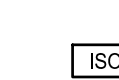


FP101

SYMBOLS & ABBREVIATIONS SCHEDULE

RECEPTACLES

	DUPLIX RECEPTACLE OUTLET, 18" A.F.F., 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
	GFCI RECEPTACLE OUTLET, 18" A.F.F., 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
POWER	
	WALL MOUNTED JUNCTION BOX. SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC).
	PROVIDE COMPLETE ELECTRICAL CONNECTION TO EQUIPMENT INDICATED (INCLUDING DISCONNECT, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. <u>XX-X</u> INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	ELECTRICAL PANELBOARD, SURFACE MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX.
	ELECTRICAL PANELBOARD, FLUSH MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX.
	TYPICAL DISCONNECT (SAFETY SWITCH). REFER TO DRAWINGS FOR SIZE & ADDITIONAL FUSING REQUIREMENTS.
	ELECTRICAL PIECE OF EQUIPMENT. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

FIRE ALARM

	FIRE ALARM SYSTEM SMOKE SENSOR. (CEILING MOUNTED) PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. (ROUND-CEILING MOUNTED, SQUARE-WALL MOUNTED). TAG 'CA' INDICATES SMOKE DETECTORS SHALL BE ASSOCIATED WITH THE CLEAN AGENT SYSTEM.
	FIRE ALARM SYSTEM HEAT DETECTOR. UNLESS OTHERWISE NOTED, PROVIDE COMBINATION FIXED (135°F) & RATE-OF-RISE (15° PER MINUTE) TYPE DEVICE. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	CARBON MONOXIDE DETECTOR. PROVIDE & INSTALL ALL REQUIRED WIRING BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM REMOTE TEST STATION. PROVIDE WHERE INDICATED ON DRAWING & INTERFACE WITH DETECTION DEVICE INDICATED. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM MANUAL PULL STATION. PROVIDE COMPLETE INSTALLATION WITH PROTECTIVE COVER WHERE REQUIRED. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM WATER FLOW SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN FLOW SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM TAMPER SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN TAMPER SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM WATER FLOW ALARM INTERFACE. PROVIDE COMPLETE ELECTRICAL INTERFACE TO ALARM (PROVIDED & INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR). PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM INDIVIDUAL ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM FAN SHUT-DOWN RELAY. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. CONTACT RATING SHALL MATCH FAN MOTOR FEEDER RATING. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM ISOLATION MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. INSTALL EVERY 25TH INITIATING DEVICE ON SLC LOOP. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	TYPICAL FIRE ALARM CONTROL PANEL. SURFACE OR FLUSH MOUNTED. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	ABORT BUTTON. (WALL MOUNTED) PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. TAG 'CA' INDICATES SMOKE DETECTORS SHALL BE ASSOCIATED WITH THE CLEAN AGENT SYSTEM.

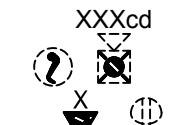
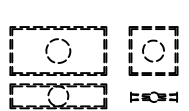
ABBREVIATIONS:

WP	INDICATES WEATHERPROOF DEVICE OR EQUIPMENT
WG	INDICATES DEVICE SHALL HAVE WIRE GUARD PROTECTION
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
(ETR)	EXISTING EQUIPMENT SHALL REMAIN IN PLACE
OC	OVER COUNTER (INSTALL 12" ABOVE COUNTER HEIGHT)
UC	UNDER COUNTER (INSTALL 18" ABOVE FINISHED FLOOR)
VNAC	VISUAL NOTIFICATION APPLIANCE CIRCUIT
ANAC	AUDIO NOTIFICATION APPLIANCE CIRCUIT
SLC	SIGNALING LINE CIRCUIT
ATS	AUTOMATIC TRANSFER SWITCH
HP	HORSEPOWER
KW	KILOWATT
KVA	KILOVOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
EM	EMERGENCY
NL	NIGHTLIGHT (TYPICAL FOR LIGHTING, 'ON' ALL THE TIME)
LTG	LIGHTING
CPWR	CONTINUOUS LOAD (POWER)
PWR	POWER
EH	ELECTRIC HEAT
KIT	KITCHEN EQUIPMENT
LMTR	LARGEST MOTOR
EQP	SHOP EQUIPMENT
NEC	NATIONAL ELECTRICAL CODE
MLO	MAIN LUGS ONLY
MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAGE

BRANCH CIRCUIT WIRING NOTES:


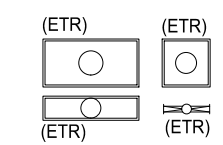
- A. UNLESS OTHERWISE NOTED, MINIMUM HOMERUN (HOMERUN SHALL BE CONSIDERED TOTAL LENGTH FROM SOURCE TO LAST DEVICE ON THE CIRCUIT) CONDUCTORS FOR 20A/1P BRANCH CIRCUITS INCLUDING LIGHTING SHALL BE AS FOLLOWS:
- 1-100FT - #12 AWG
 - 101-150FT - #10 AWG
 - 151-250FT - #8 AWG
 - 251-400FT - #6 AWG.
 - 401 & LONGER - #4 AWG.
- REDUCE CONDUCTORS SIZE TO A MAXIMUM CONDUCTOR SIZE THAT THE LOAD TERMINALS CAN ACCOMMODATE. REDUCED SIZE NOT LONGER THAN ONE FOOT. INCREASE RACEWAY SIZE AS NEEDED PER NEC. FOR THE LARGER SIZES OF CONDUCTORS.

REMOVAL (TYPICAL FOR ALL DEVICES):

	TYPICAL POWER & SYSTEMS DEVICE SCHEDULED FOR REMOVAL. DISCONNECT & REMOVE ALL ASSOCIATED ELECTRICAL WORK AS INDICATED ON CONTRACT DOCUMENTS. REINSTALL AS REQUIRED
	TYPICAL LUMINAIRE SCHEDULED FOR REMOVAL. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

REMOVAL NOTES:
NOT ALL DEVICES SCHEDULED FOR REMOVAL ARE SHOWN ON THIS SCHEDULE. ALL DEVICES TO BE REMOVED ARE MARKED WITH THE SAME LINETYPE & LINE WEIGHT AS SYMBOLS ABOVE. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

EXISTING TO REMAIN (TYPICAL FOR ALL DEVICES):

	TYPICAL POWER & SYSTEMS DEVICE EXISTING TO REMAIN IN PLACE.
	EXISTING LUMINAIRE SCHEDULED TO REMAIN IN PLACE. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

EXISTING TO REMAIN NOTES:
NOT ALL EXISTING DEVICES SCHEDULED TO REMAIN ARE SHOWN ON THIS SCHEDULE. ALL DEVICES SCHEDULED TO REMAIN ARE MARKED WITH THE SAME LINETYPE & LINE WEIGHT AS SYMBOLS ABOVE. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL SYMBOLS NOTE:

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GENERAL NOTES: (FOR ALL DRAWINGS)

- A. THE DRAWINGS ARE DIAGRAMMATIC & INDICATE GENERALLY THE LOCATIONS OF THE MATERIAL & EQUIPMENT. THESE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE.
- B. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION & OPERATION, SHALL BE INCLUDED IN THE CONTRACTOR'S BID, THE SAME AS IF HEREIN SPECIFIED OR SHOWN.
- C. ALL MATERIAL & INSTALLATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE NATIONAL ELECTRIC CODE, LATEST EDITION OF LOCAL CODES, & ORDINANCES.
- D. ALL CONDUITS ON EXPOSED WORK SHALL BE RUN AT RIGHT ANGLES TO, & PARALLEL WITH, THE SURROUNDING WALL & SHALL CONFORM TO THE FORM OF THE CEILING. DIAGONAL RUNS WILL NOT BE ALLOWED. BENDS IN PARALLEL CONDUIT RUNS SHALL BE CONCENTRIC. ALL CONDUIT SHALL RUN PERFECTLY STRAIGHT & TRUE.
- E. ALL CONDUIT RUNS ARE TO BE CONCEALED IN WALLS, CEILINGS, OR IN THE SLAB. CONTRACTOR SHALL COORDINATE CONDUIT INSTALLATION DURING BUILDING CONSTRUCTION WITH OTHER TRADES. RUN SURFACE RACEWAY ONLY WHERE CALLED FOR OR SHOWN ON THE DRAWINGS. EXPOSED CONDUIT SHALL ONLY BE INSTALLED WHERE MEANS OF CONCEALING DOES NOT EXIST. CONTRACTOR IS TO NOTIFY ENGINEER & GET OWNERS APPROVAL PRIOR TO RUNNING EXPOSED CONDUITS.
- F. INTERIOR POWER BRANCH CIRCUITS SHALL BE IN EMT CONDUIT. A MAXIMUM OF (3) CIRCUITS CAN BE GROUPED TOGETHER IN A HOMERUN CONDUIT. EACH CIRCUIT SHALL HAVE SEPARATE NEUTRAL. GROUPING OF NEUTRALS SHALL NOT BE ACCEPTABLE. EACH CIRCUIT SHALL ALSO HAVE A GROUND WIRE SIZED PER NEC. USING CONDUIT, OR MC CABLE AS GROUND PATH SHALL NOT BE ACCEPTABLE. CABLE MUST BE SUPPORTED PER NEC. GROUPING OF GROUND WIRES [(1) GROUND PER (3) CIRCUITS] IS ACCEPTABLE.
- G. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED COSTS FOR SEALING ALL PENETRATIONS THROUGH FIRE & SMOKE WALLS USING UL APPROVED SEALANT & METHODS.
- H. UNLESS OTHERWISE NOTED, PROVIDE ALL NEW RACEWAYS. USE SURFACE RACEWAY ONLY WHERE INDICATED ON THE PLANS. IF CONTRACTOR INTENDS TO UTILIZE SURFACE RACEWAY IN AREAS OTHER THOSE INDICATED ON PLANS, PRIOR APPROVAL IS REQUIRED FROM ENGINEER & OWNER.
- I. CONTRACTOR MAY REUSE EXISTING CONCEALED CONDUIT UNLESS OTHERWISE NOTED ON THE PLANS.
- J. ALL RACEWAYS CROSSING BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.
- K. CONTRACTOR SHALL PROVIDE INFORMATION LABELS ON ALL RECEPTACLES, PANELBOARDS, JUNCTION BOXES, WALL SWITCHES, & DISCONNECT SWITCHES. LABELS SHALL BE PHENALIC TYPE WITH BLACK BACKGROUND & WHITE ENGRAVED LETTERING. LABEL SHALL INDICATED CIRCUIT/FEEDER SOURCE & EQUIPMENT ID NAME.



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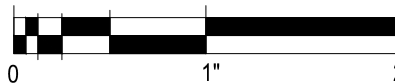
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ELECTRICAL SYMBOLS, NOTES
& ABBREVIATIONS

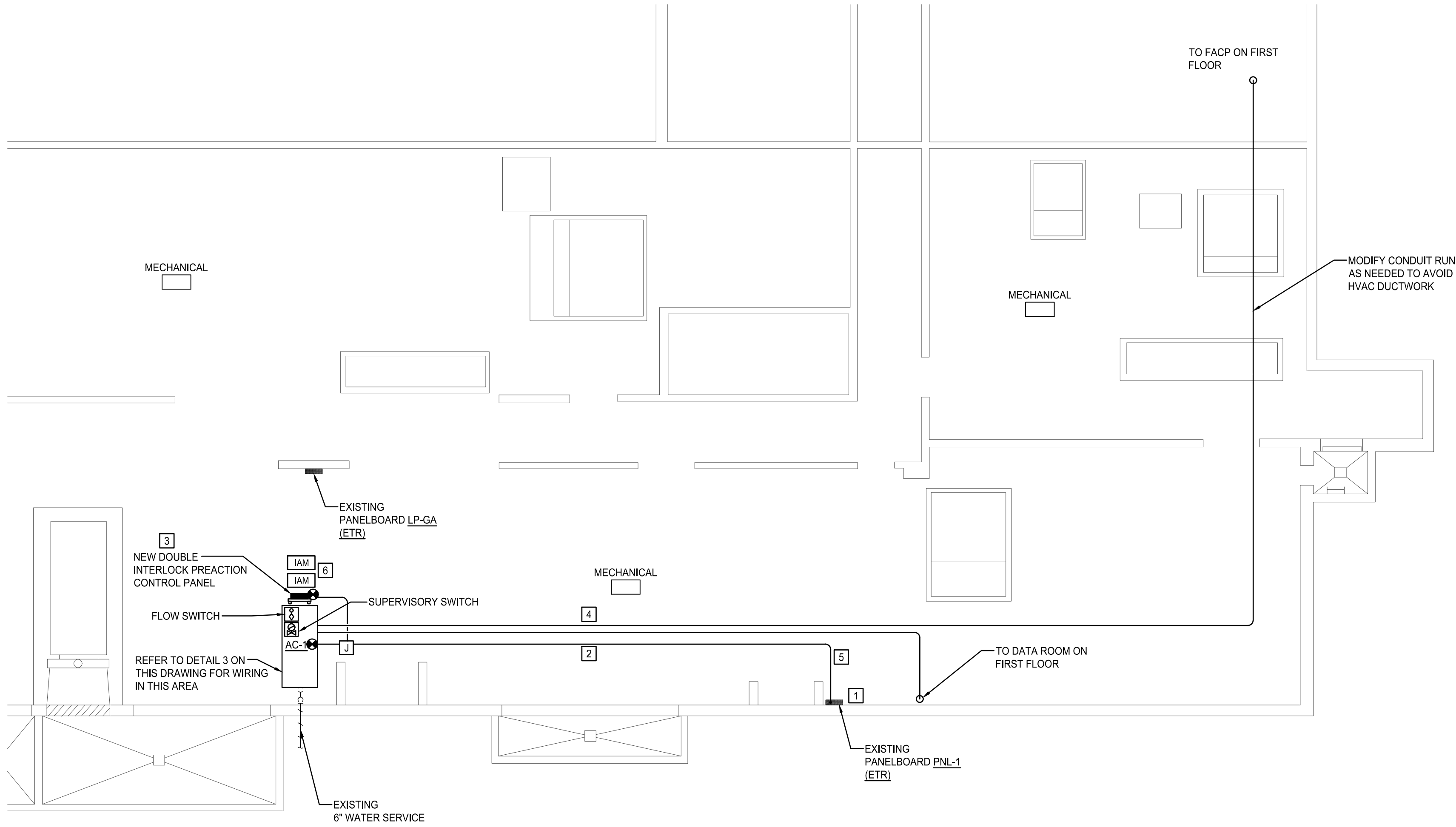


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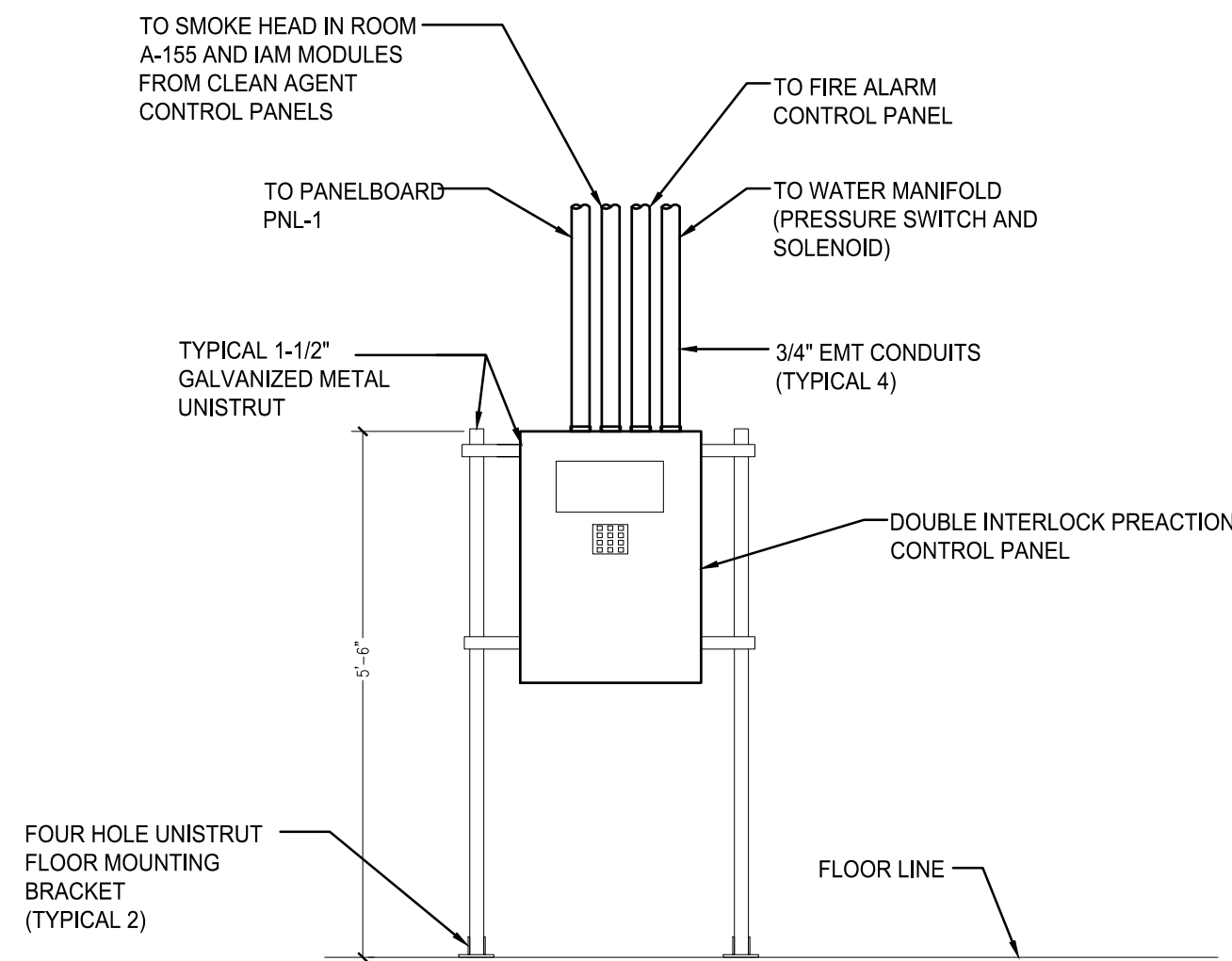
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SCALE	AS NOTED		
DWN.	MJC	CHK.	JJR
PROJ. No.	307661		

DWG. No.

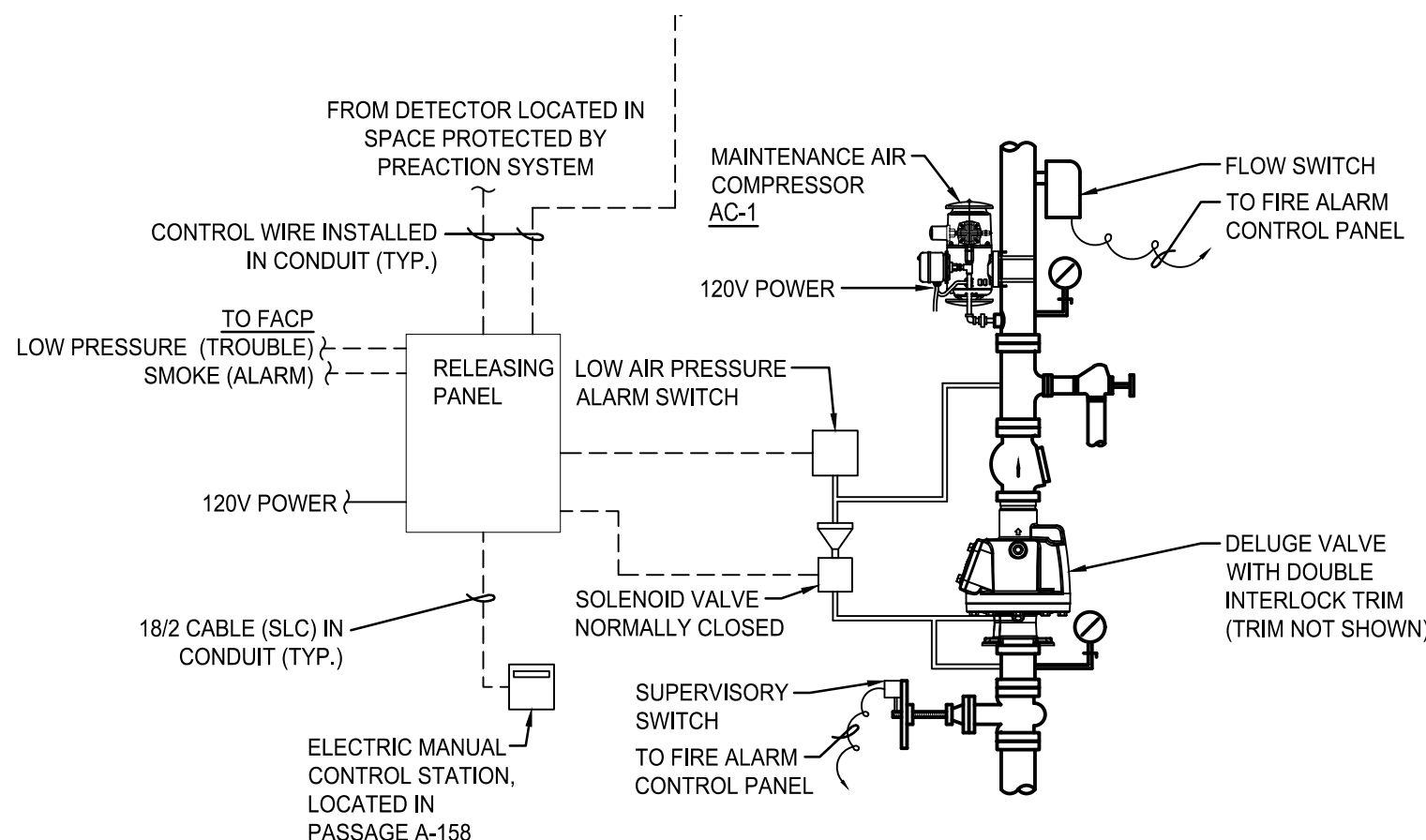
E001



1 PARTIAL BASEMENT LEVEL ELECTRICAL NEW WORK PLAN
SCALE: 1/8" = 1' 0"



2 DOUBLE INTERLOCK PREACTION CONTROL PANEL MOUNTING DETAIL
SCALE: NO SCALE

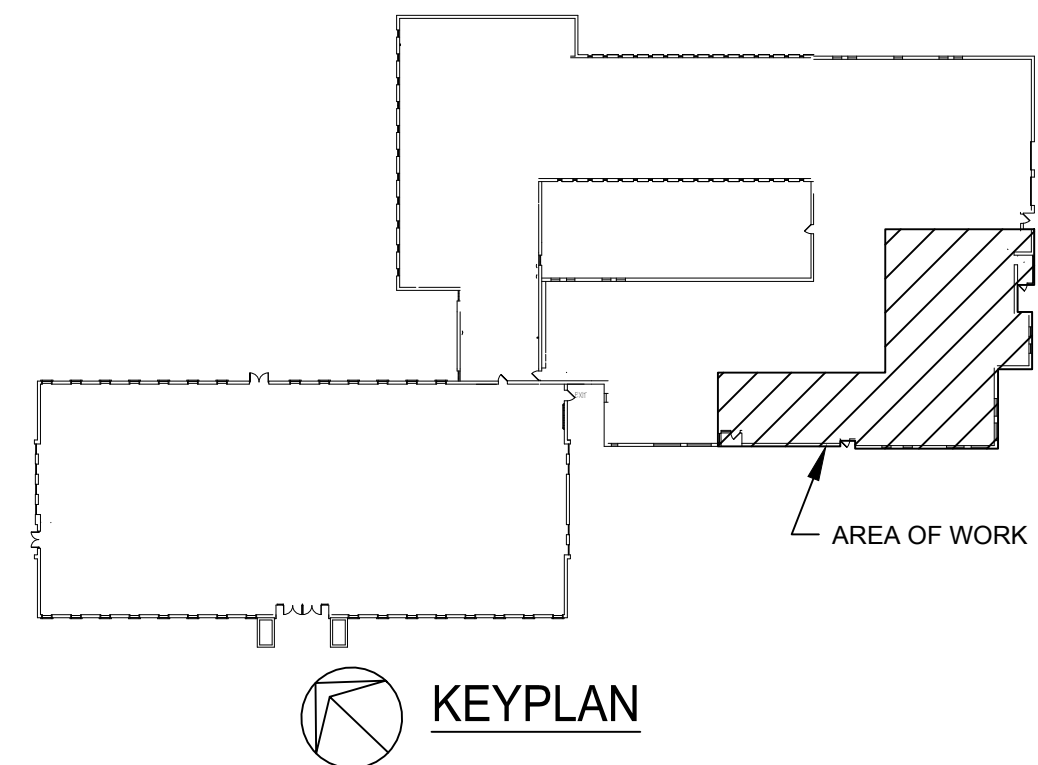


3 DOUBLE INTERLOCK PREACTION SYSTEM WIRING DETAIL
SCALE: NO SCALE

CONSTRUCTION NOTES:

1. PROVIDE (2) 20 AMP CIRCUIT BREAKERS IN EXISTING PANELBOARD PNL-1 (SQUARE D-NQ SERIES) FOR POWER TO THE DOUBLE INTERLOCK PREACTION CONTROL PANEL AND AIR COMPRESSOR AC-1.
2. PROVIDE 3/4" EMT CONDUIT WITH 4 - #12 AWG & 1 - #12 AWG GROUND FOR POWER WIRING TO THE DOUBLE INTERLOCK PREACTION CONTROL PANEL AND AIR COMPRESSOR AC-1.
3. DOUBLE INTERLOCK PREACTION CONTROL PANEL. INSTALL CONTROL PANEL ON UNISTRUT FRAME MOUNTED TO THE FLOOR. REFER TO DETAIL 2 ON THIS DRAWING FOR ADDITIONAL INFORMATION.
4. PROVIDE 1" EMT CONDUIT FOR CONTROL WIRING (PRESSURE SWITCH, SMOKE HEAD, FLOW SWITCH AND SUPERVISORY SWITCH) BACK TO THE EXISTING FIRE ALARM CONTROL PANEL. REFER TO MANUFACTURER'S DEVICE WIRING REQUIREMENTS FOR SPECIFIC WIRING DETAILS.
5. PROVIDE 3/4" EMT CONDUIT WITH 4 - #18/2 CABLES FOR SMOKE HEADS LOCATED ON THE FIRST FLOOR (ROOMS A-155, A-156 & A-159 - TYPICAL - 4).
6. PROVIDE IAM (INDIVIDUAL ADDRESSABLE MODULE) FOR THE LOW PRESSURE SWITCH AND SMOKE DETECTORS (LOCATED ON FIRST FLOOR). PROVIDE ALL REQUIRED WIRING BETWEEN SIGNALING DEVICES AND ASSOCIATED EQUIPMENT.

EXISTING PANELBOARD SCHEDULE													
PANELBOARD PNL-1		VOLTS: 208 V 3Ø 4-WIRE MIN. BUS CAPACITY: 150 A AIC: 42KA MCB: 150 A MTG: SURFACE MLC: ENCL: NEMA 1										BASEMENT	
		NAME											
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.	
1	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	2	
3	20A/1P	EXISTING LOAD				0				EXISTING LOAD	20A/1P	4	
5	20A/1P	EXISTING LOAD					0			EXISTING LOAD	20A/1P	6	
7	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	8	
9	20A/1P	EXISTING LOAD				0				EXISTING LOAD	20A/1P	10	
11	20A/1P	EXISTING LOAD					0			EXISTING LOAD	20A/1P	12	
13	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	14	
15	20A/1P	EXISTING LOAD				0				EXISTING LOAD	20A/1P	16	
17	20A/1P	EXISTING LOAD					0			EXISTING LOAD	20A/1P	18	
19	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	20	
21	20A/1P	EXISTING LOAD				0				EXISTING LOAD	20A/1P	22	
23	20A/1P	EXISTING LOAD					0			EXISTING LOAD	20A/1P	24	
25	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	26	
27	20A/1P	EXISTING LOAD				240		240	OT	AIR COMPRESSOR AC-1	20A/1P	28	
29	20A/1P	DBL. INTERLOCK PREACTION CTRL. PNL.	OT	360			360			SPACE		30	
31		SPACE			0					SPACE		32	
33		SPACE				0				SPACE		34	
35		SPACE					0			SPACE		36	
37		SPACE			0					SPACE		38	
39		SPACE				0				SPACE		40	
41		SPACE					0			SPACE		42	



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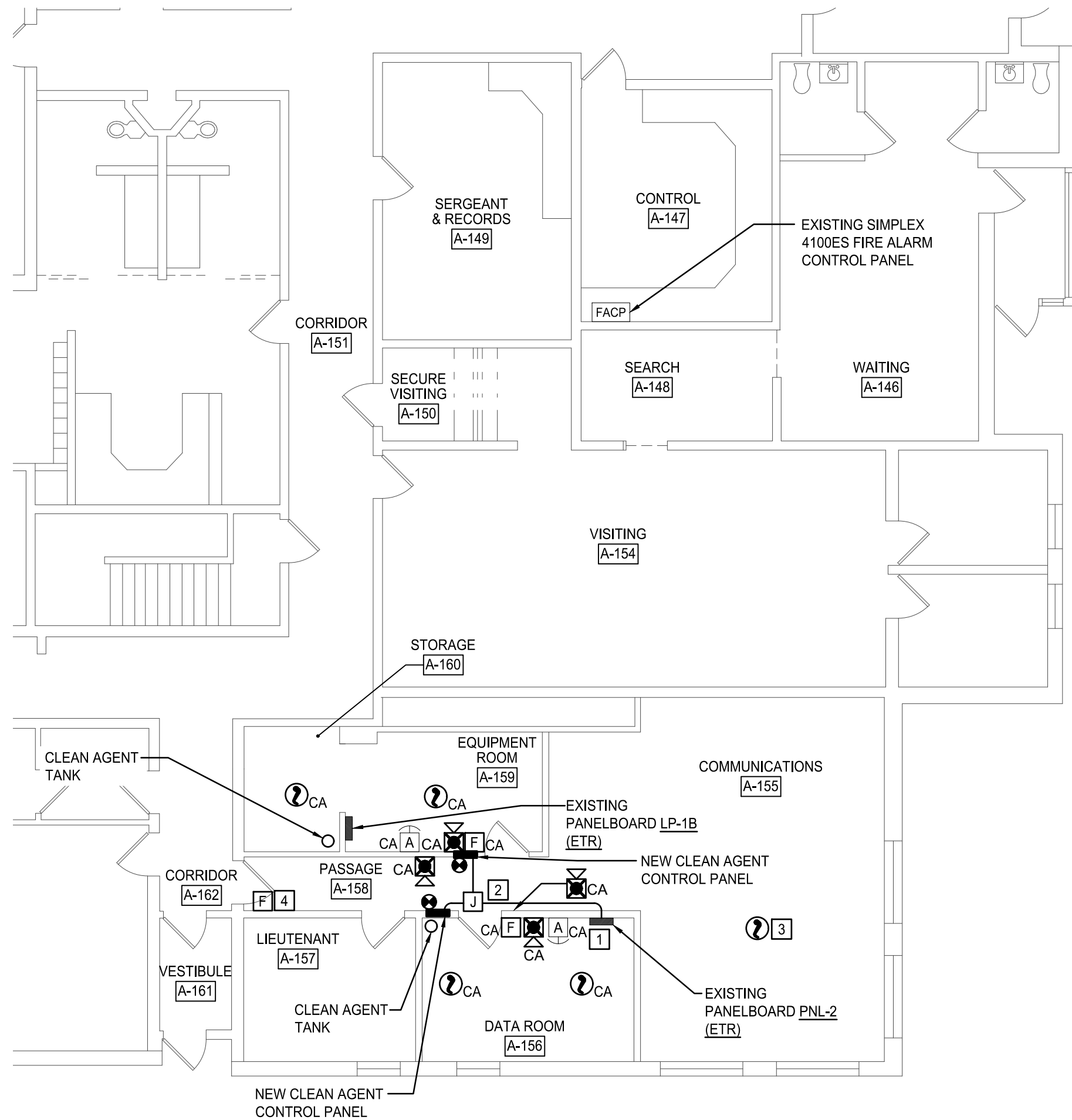
DWG. TITLE

PARTIAL BASEMENT &
FIRST FLOOR ELECTRICAL
PLANS

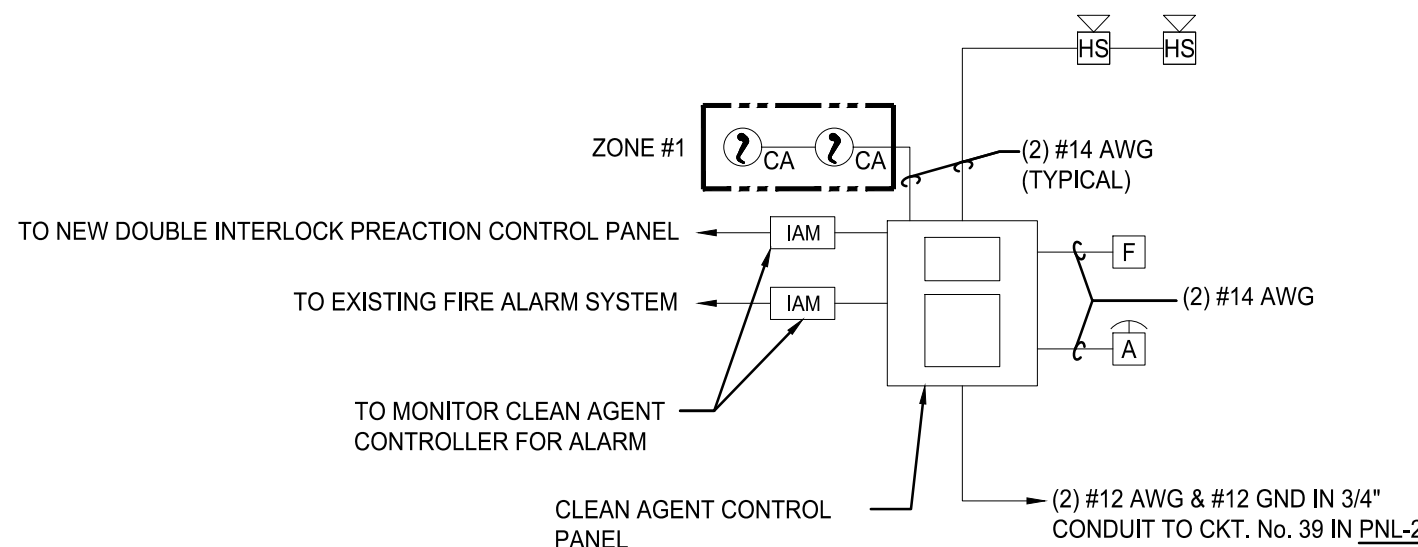
1" = 2"
0 2"
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DWN. MJC CHK. JJR
PROJ. No. 307661
DWG. No.

E101



1 PARTIAL FIRST FLOOR NEW WORK PLAN
SCALE: 1/8" = 1' 0"



RISER NOTES:

- UNLESS OTHERWISE NOTED- THE CLEAN AGENT SYSTEM DEVICES SHALL BE FURNISHED BY THE SYSTEM VENDOR/PROVIDER. REFER TO FIRE PROTECTION DRAWINGS & SPECIFICATIONS FOR INFORMATION REGARDING CLEAN AGENT SYSTEM DEVICES.
- FIRE ALARM SEQUENCE OF OPERATION: DESIGNATED SMOKE DETECTORS SHALL INITIATE ALARM SEQUENCE IN THE DRY CHEMICAL CONTROLLER.

EXISTING FIRE ALARM CONTROL PANEL SHALL MONITOR STATUS VIA ADDRESSABLE MODULE- UPON INITIATION OF ALARM- THE FACF SHALL ENTER ALARM MODE INITIATING EVACUATION SEQUENCE.

2 CLEAN AGENT RISER DIAGRAM
SCALE: NO SCALE

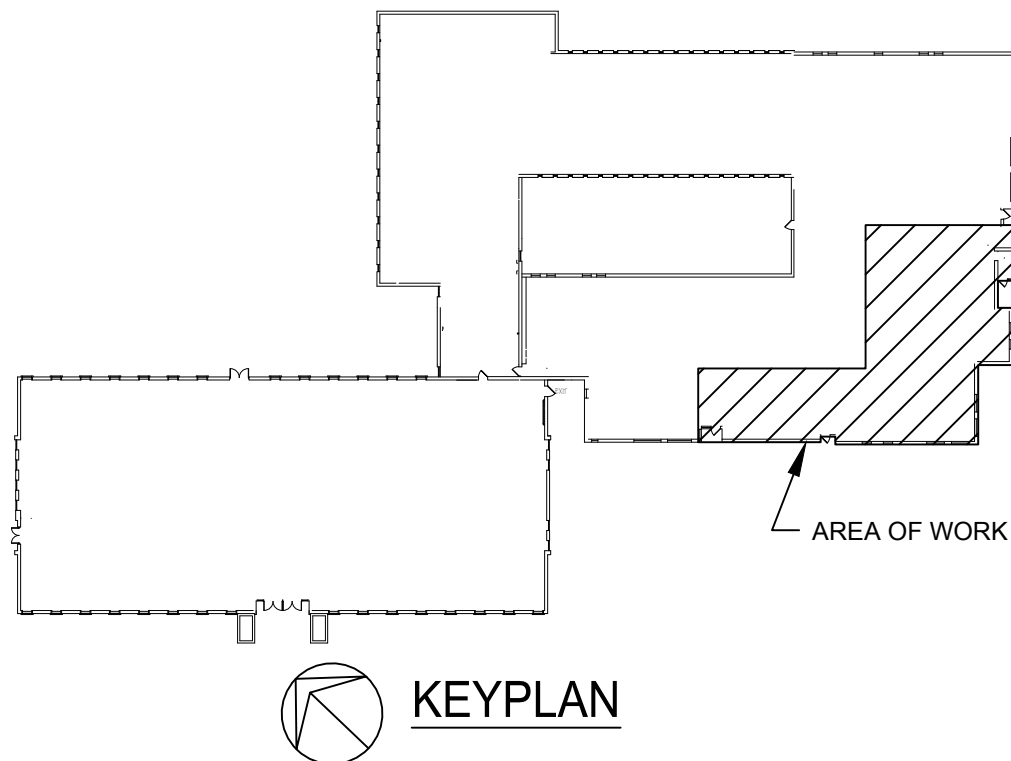
EXISTING PANELBOARD SCHEDULE												
PANELBOARD		VOLTS: 208 V 3Ø 4-WIRE										DATA ROOM
PNL-2		MIN. BUS CAPACITY: 225 A AIC: MTG. SURFACE										A-156
NAME		MCO: 225 A ENCL: NEMA 1										LOCATION
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	2
3	20A/1P	EXISTING LOAD				0				EXISTING LOAD	20A/1P	4
5	20A/1P	EXISTING LOAD					0			EXISTING LOAD	20A/1P	6
7	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	8
9	20A/1P	EXISTING LOAD				0				EXISTING LOAD	20A/1P	10
11	20A/1P	EXISTING LOAD					0			EXISTING LOAD	20A/1P	12
13	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	14
15	20A/1P	EXISTING LOAD				0				EXISTING LOAD	20A/1P	16
17	20A/1P	EXISTING LOAD					0			EXISTING LOAD	20A/1P	18
19	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	20
21	20A/1P	EXISTING LOAD				0				EXISTING LOAD	20A/1P	22
23	20A/1P	EXISTING LOAD					0			EXISTING LOAD	20A/1P	24
25	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	26
27	20A/1P	EXISTING LOAD				0				EXISTING LOAD	20A/1P	28
29	20A/1P	EXISTING LOAD					0			EXISTING LOAD	20A/1P	30
31	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	32
33	20A/1P	EXISTING LOAD				0				EXISTING LOAD	20A/1P	34
35	20A/1P	EXISTING LOAD					0			EXISTING LOAD	20A/1P	36
37	20A/1P	EXISTING LOAD			0					EXISTING LOAD	20A/1P	38
39	20A/1P	DRY CHEMICAL CONTROL PANEL	OT	540		540				EXISTING LOAD	20A/1P	40
41	20A/1P	DRY CHEMICAL CONTROL PANEL	OT	540			540			EXISTING LOAD	20A/1P	42

GENERAL NOTES:

- REFER TO SPECIFICATION 212200 FOR ADDITIONAL INFORMATION REGARDING THE SEQUENCE OF OPERATION FOR THE CLEAN AGENT SYSTEM.
- PROVIDE A SIGN AT EACH MANUAL PULL STATION WITH THE LABEL "CA" (TOTAL OF 2) STATING "ACTIVATION OF THIS FIRE ALARM PULL STATION WILL INITIATE AN ALARM IN THE CLEAN AGENT SYSTEM"

CONSTRUCTION NOTES:

- PROVIDE (2) 20 AMP CIRCUIT BREAKER IN EXISTING PANELBOARD PNL-2 FOR POWER TO THE CLEAN AGENT CONTROL PANELS. CONCEAL ALL CONDUIT ABOVE THE DROP CEILING OR IN THE WALLS OF THE DRYWALL.
- PROVIDE 3/4" EMT CONDUIT WITH (4) - #12 AWG & (1)- #12 AWG GROUND FOR POWER WIRING TO THE CLEAN AGENT CONTROL PANEL.
- PROVIDE SMOKE DETECTOR COMPATIBLE WITH THE NEW DOUBLE INTERLOCK PREACTION FIRE ALARM CONTROL PANEL. WIRE DEVICE BACK TO DOUBLE INTERLOCK PREACTION CONTROL PANEL IN THE BASEMENT.
- FIRE ALARM MANUAL PULL STATION. PROVIDE RACEWAY AND WIRE TO DOUBLE INTERLOCK PREACTION CONTROL PANEL IN THE BASEMENT.



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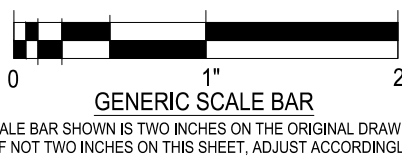
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E102