

CONSTRUCTION DOCUMENTS FOR:

PITT COMMUNITY COLLEGE

NEW WELDING BUILDING

WINTERVILLE, NC
SCO ID #22-25191-01A; NCCCS #2675

VOLUME 2

JKF PROJECT NO. 2022-07

FEBRUARY 15, 2024

VOLUME 1

VOLUME 2

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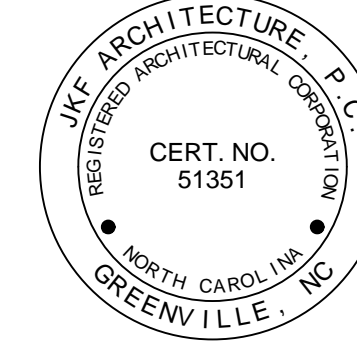
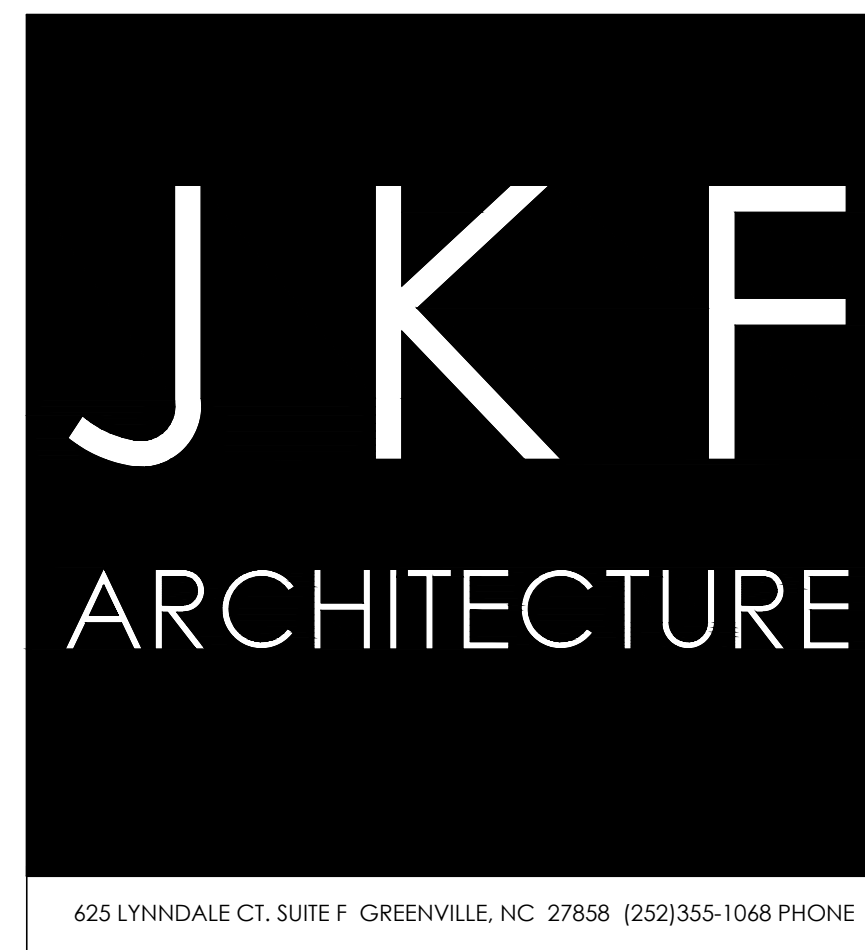
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STRUCTURAL ENGINEERS
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ATLANTEC ENGINEERS, PA
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RIVERS & ASSOCIATES, INC.
CIVIL/SITE ENGINEERS
107 E. 2ND STREET
GREENVILLE, NC 27658
252-752-4135



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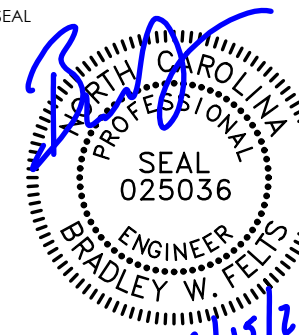
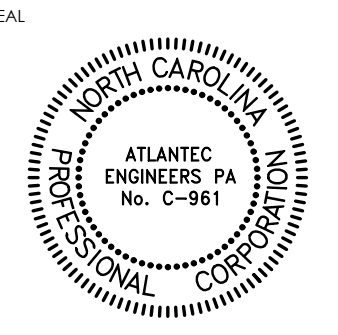
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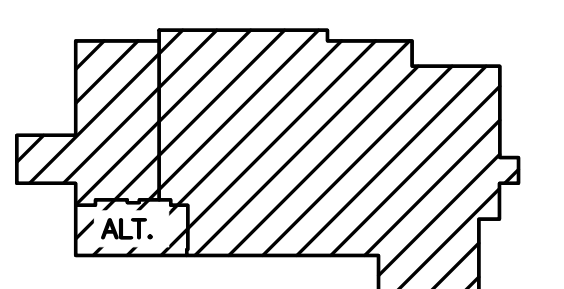
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MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

SEAL

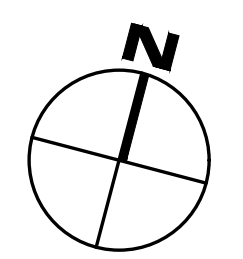
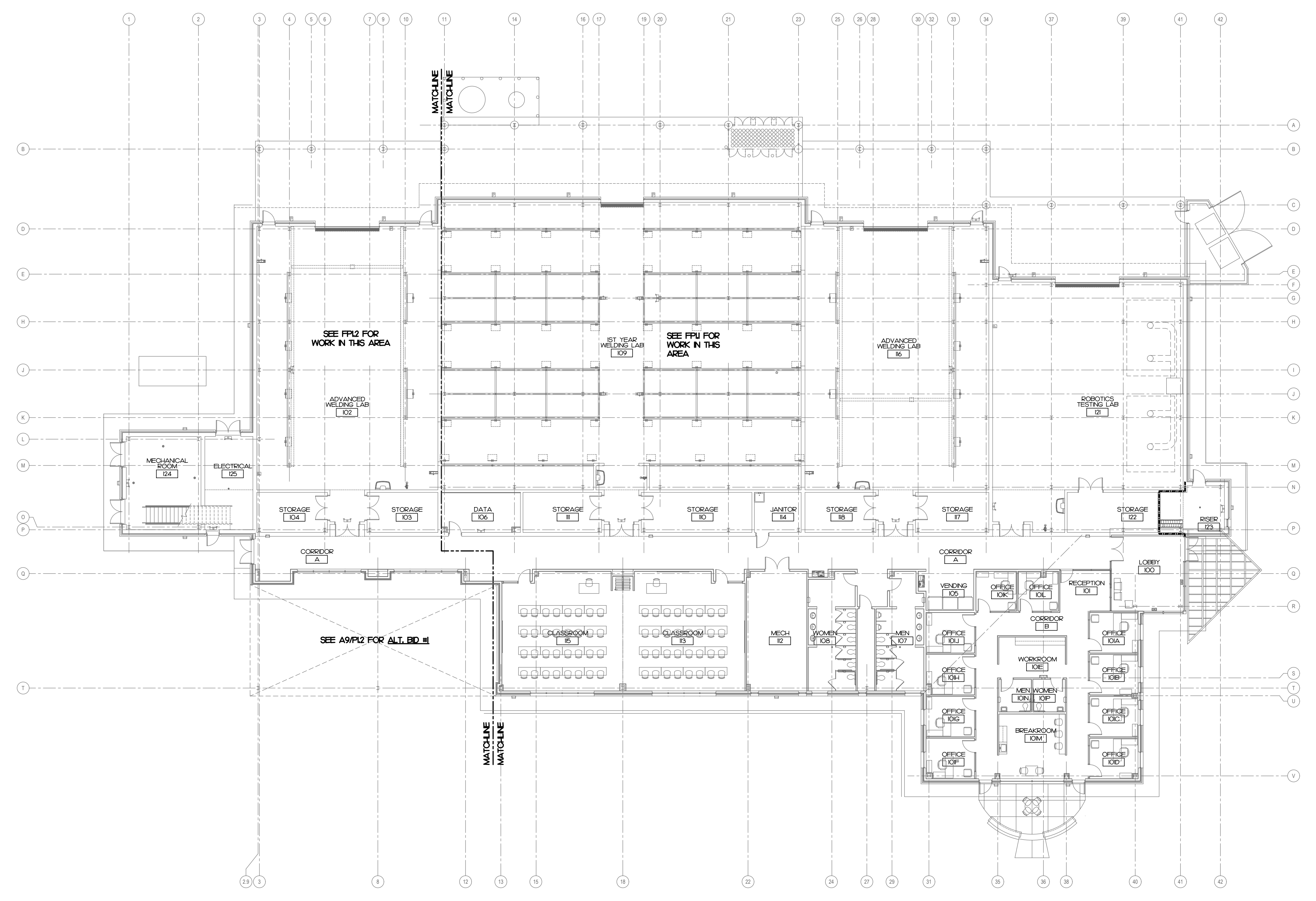
J K F
ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27608 252.355.1048

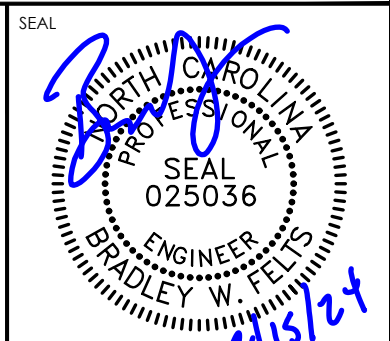
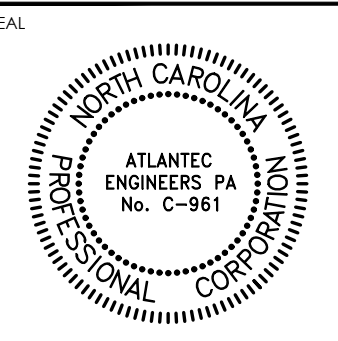
PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERSVILLE, NC

DRAWING TITLE
FIRE PROTECTION
OVERALL PLAN

SCALE	1/8" = 1'-0"	DRAWING NO.	FPI.O
DRAWN	JAD		
CHECKED	BWF		
DATE	2-15-2024		
PROJECT NO.	2022-07		



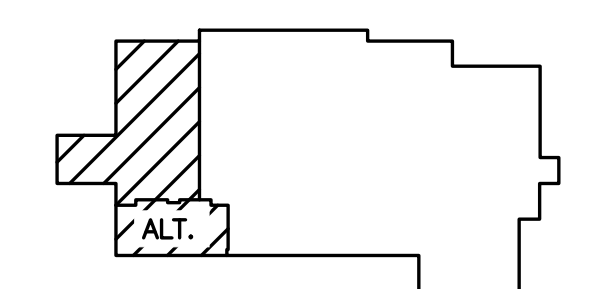
OVERALL
FIRE PROTECTION PLAN
1/8" = 1'-0" (A18)



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

SEAL

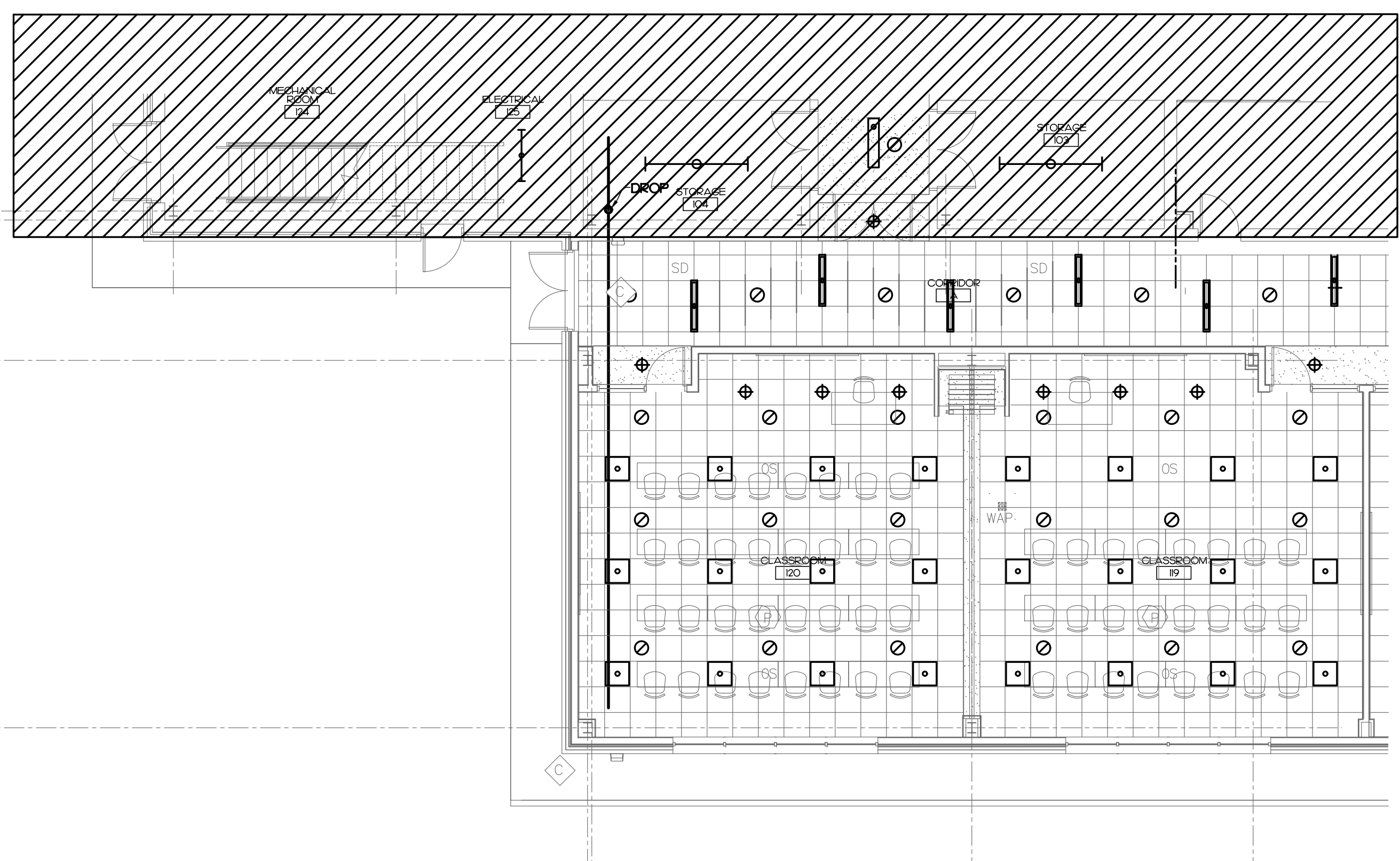
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ARCHITECTURE

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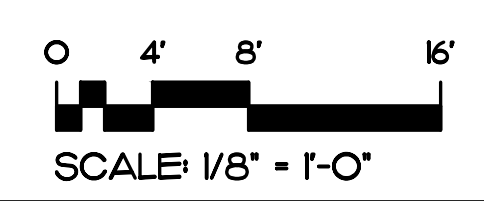
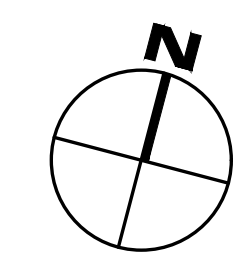
PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERSVILLE, NC

DRAWING TITLE
**FIRE PROTECTION
PLAN WEST**

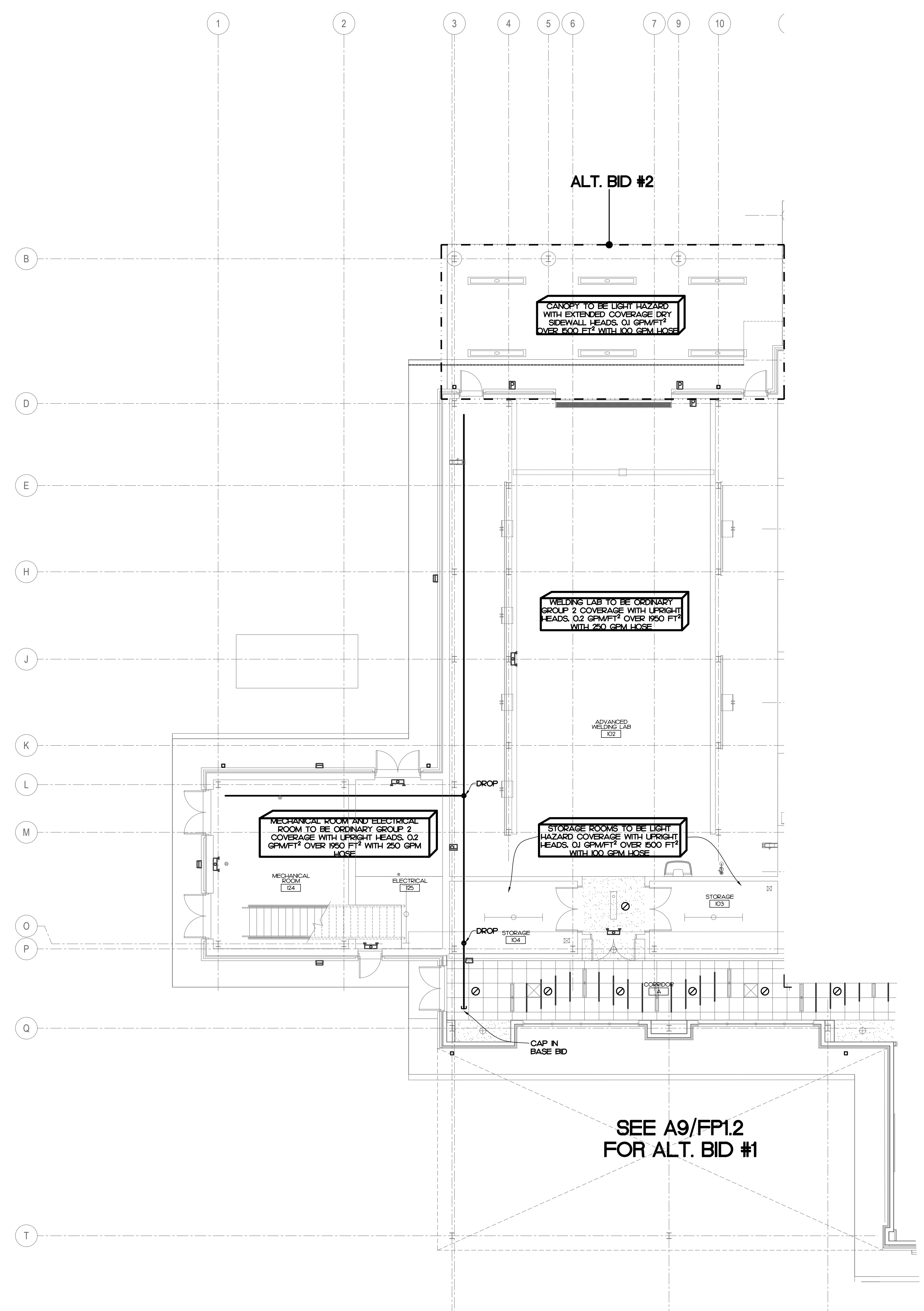
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DRAWN	JAD		
CHECKED	BWF		
DATE	2-15-2024		
PROJECT NO.	2022-07		



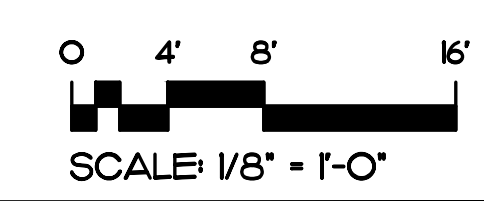
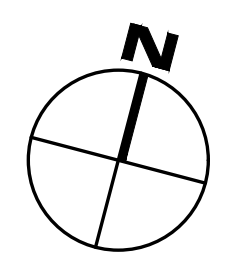
NOTE: LIGHT COVERAGE PROVIDED UNLESS OTHERWISE NOTED



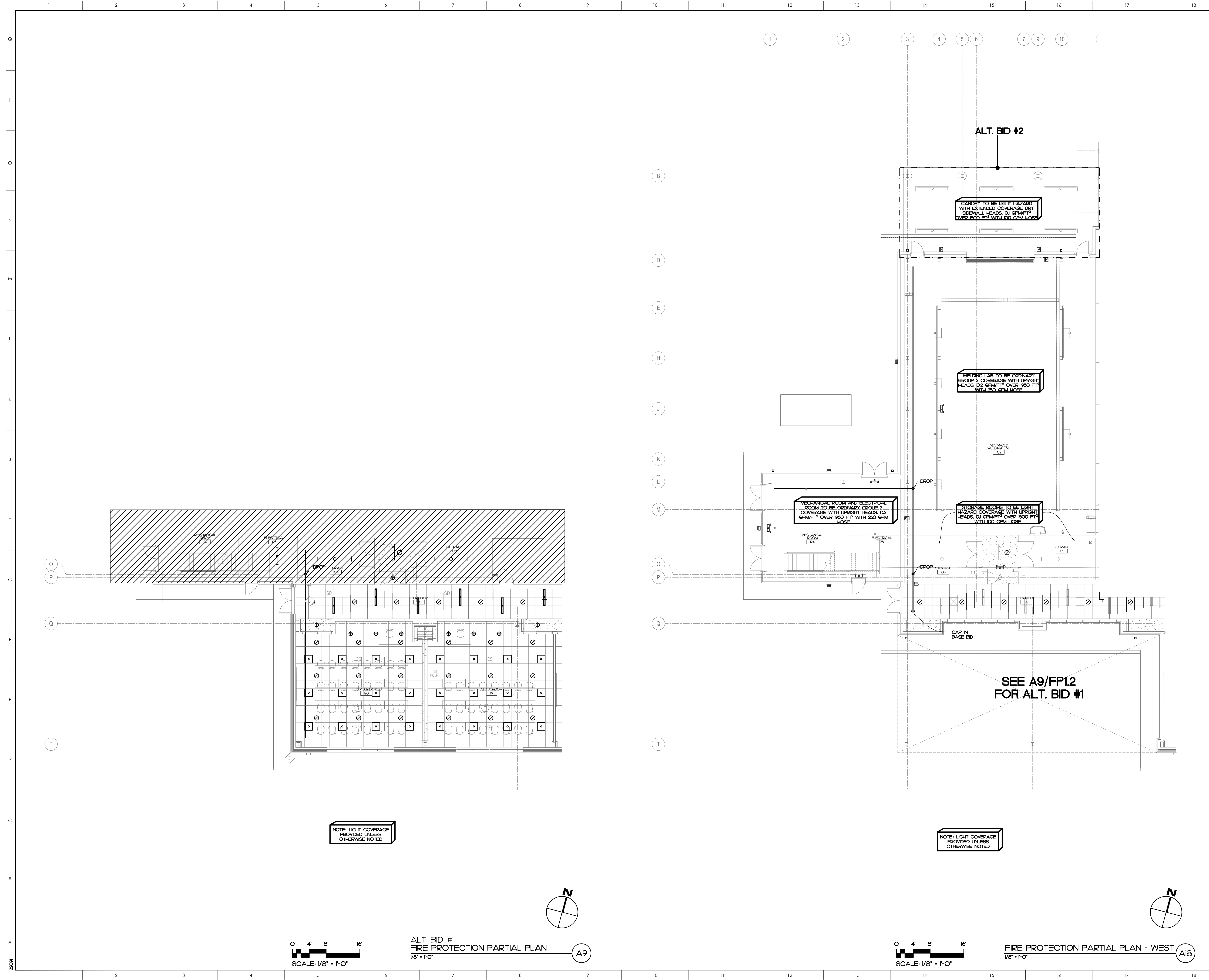
ALT BID #1
FIRE PROTECTION PARTIAL PLAN
1/8" = 1'-0" **A9**

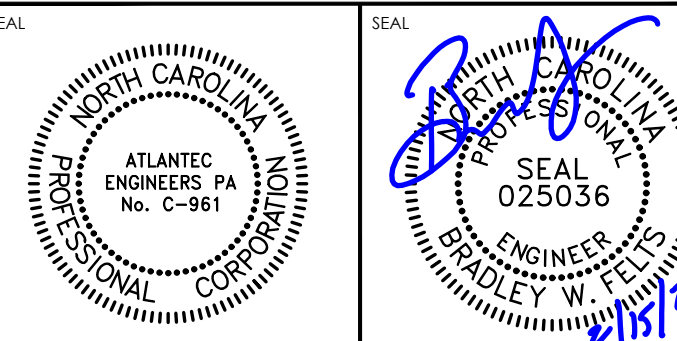


NOTE: LIGHT COVERAGE PROVIDED UNLESS OTHERWISE NOTED



FIRE PROTECTION PARTIAL PLAN - WEST
1/8" = 1'-0" **A18**

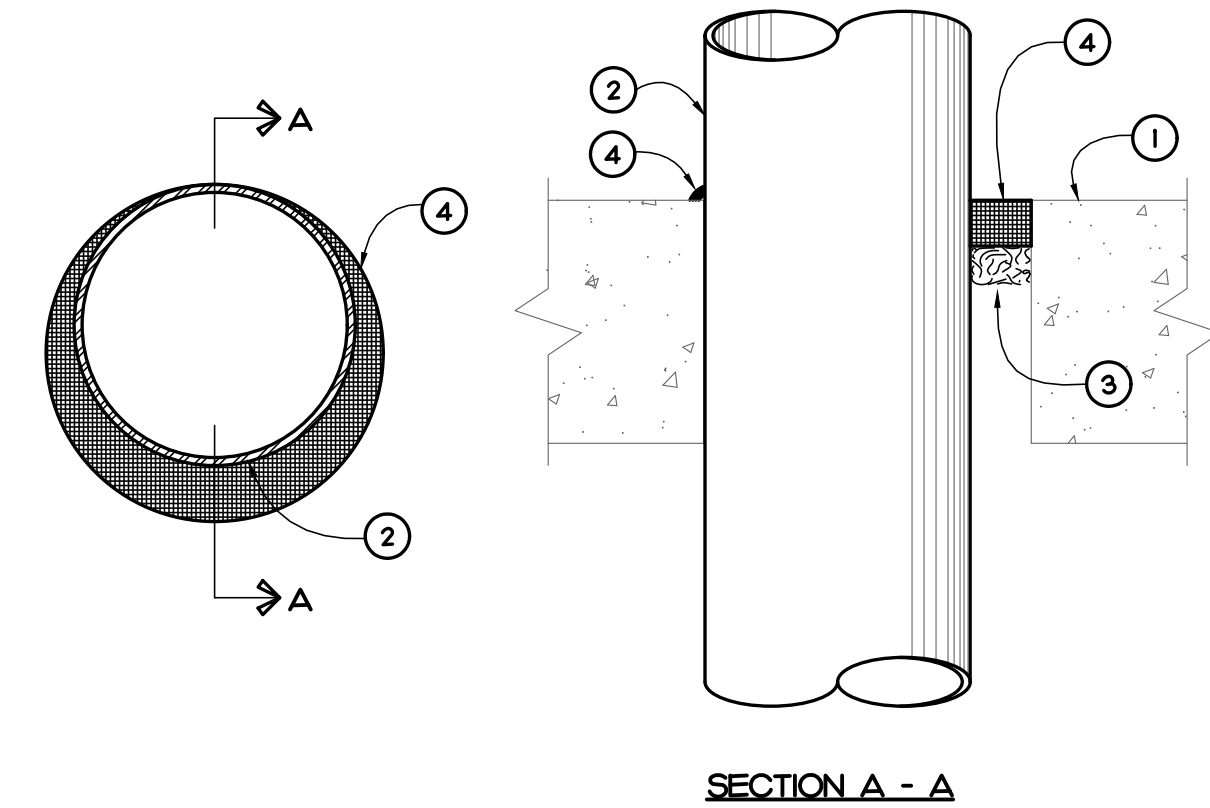




MATERIALS KEYING LEGEND

NO	EQUIPMENT DESCRIPTION
1	ELECTRIC FIRE-PUMP 750 GPM @ 50 PSI, 40 HP 480/3, 3550 RPM
2	SERVICE RATED FIRE PUMP CONTROLLER
3	JOCKEY PUMP 10 GPM @ 55 PSI, 1.0 HP 480/3, 3550 RPM
4	JOCKEY PUMP CONTROLLER

SYSTEM NO. CAJ044
F RATING - 2, 3 AND 4 HOUR (SEE ITEMS 2A AND 4)
T RATING - 0 HOUR
L RATING AT AMBIENT (CPWSQ, FT.)
W RATING - CLASS 1 (SEE ITEM 4)

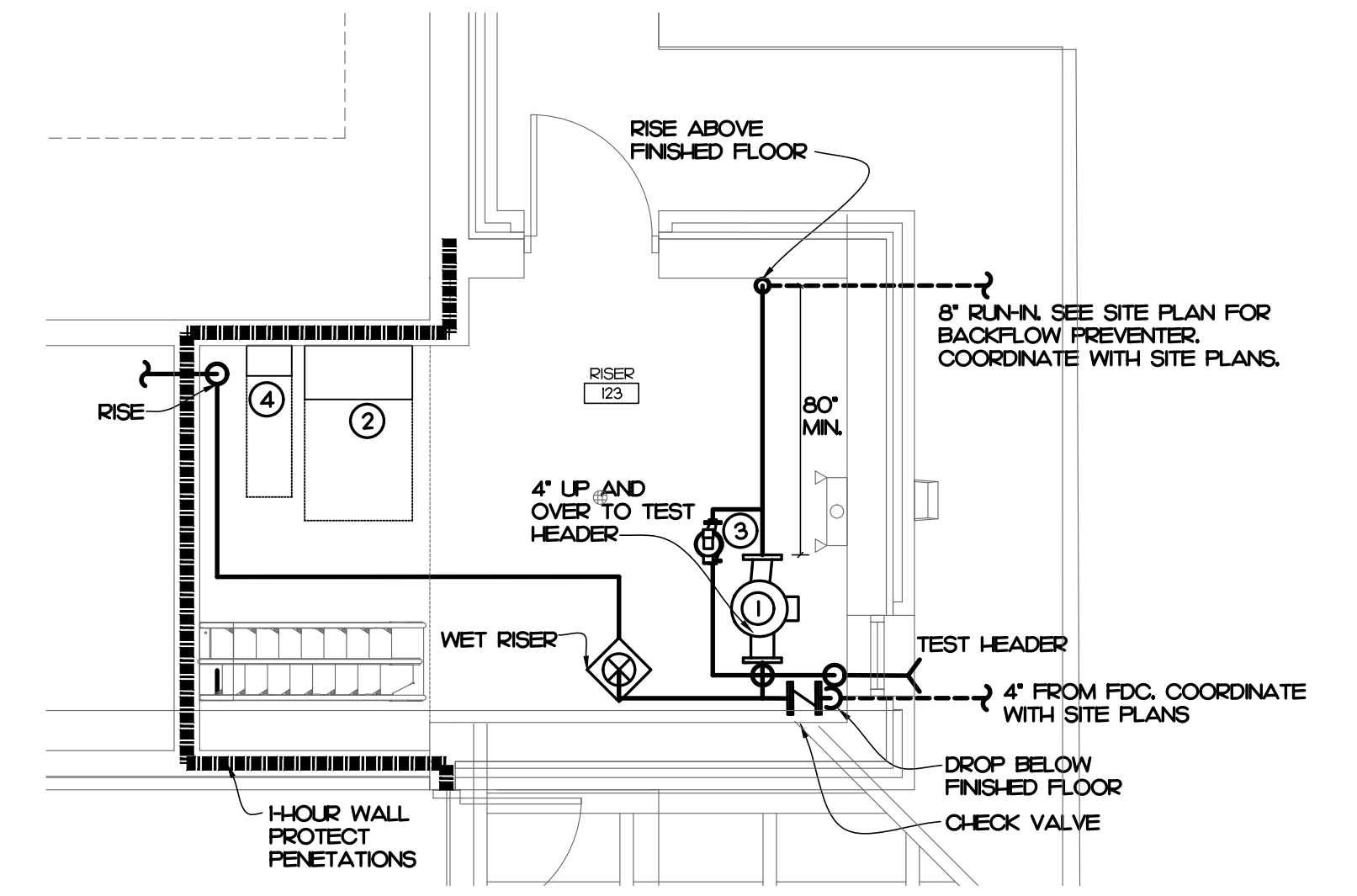


- 1 FLOOR OR WALL ASSEMBLY - LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE, EXCEPT AS NOTED IN TABLE UNDER ITEM 4. MINIMUM THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4 1/2". FLOOR MAY ALSO BE CONSTRUCTED OF ANY MINIMUM 6" THICK UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS. WHEN FLOOR IS CONSTRUCTED OF HOLLOW CORE PRECAST CONCRETE UNITS, PACKING MATERIAL (ITEM 3) AND CALK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF FLOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAXIMUM DIAMETER OF OPENING IS N. IN SOLID LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE, FLOOR IS 3" MAXIMUM DIAMETER OF OPENING IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS IS 7". SEE CONCRETE BLOCKS (CAZ1) AND PRECAST CONCRETE UNITS (CPTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- 1A STEEL SLEEVE (OPTIONAL, NOT SHOWN) - MAXIMUM 6" (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAXIMUM OF 2" ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. MAXIMUM I.D. (OR SMALLER) MINIMUM O.D.28 WALL THICKNESS (OR HEAVIER) GALVANIZED STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAXIMUM OF 1/2" BEYOND EITHER SURFACE OF FLOOR OR WALL.
- 2 THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE PRESTOP SYSTEM. MAXIMUM ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS DEPENDENT ON THE PARAMETERS SHOWN IN ITEM 4. MINIMUM ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0" (POINT CONTACT). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - A. STEEL PIPE - NOMINAL 30" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - B. IRON PIPE - NOMINAL 30" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - C. CONDUIT - NOMINAL 6" DIAMETER (OR SMALLER) RIGID STEEL CONDUIT.
 - D. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
 - E. COPPER - TUBING NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE.
 - F. COPPER PIPE - NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- 3 PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CALK FILL MATERIAL (ITEM 4).
- 4 FILL VOID OR CAVITY MATERIAL - CALK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CALK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE. A MINIMUM 1/4" DIAMETER BEAD OF CALK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL. THE HOURLY F RATINGS AND THE MINIMUM REQUIRED CALK THICKNESSES ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN IN THE FOLLOWING TABLE:

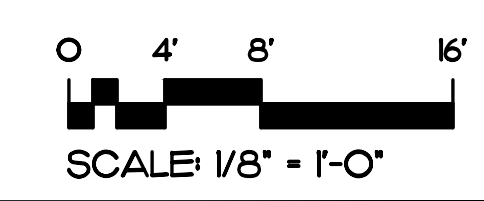
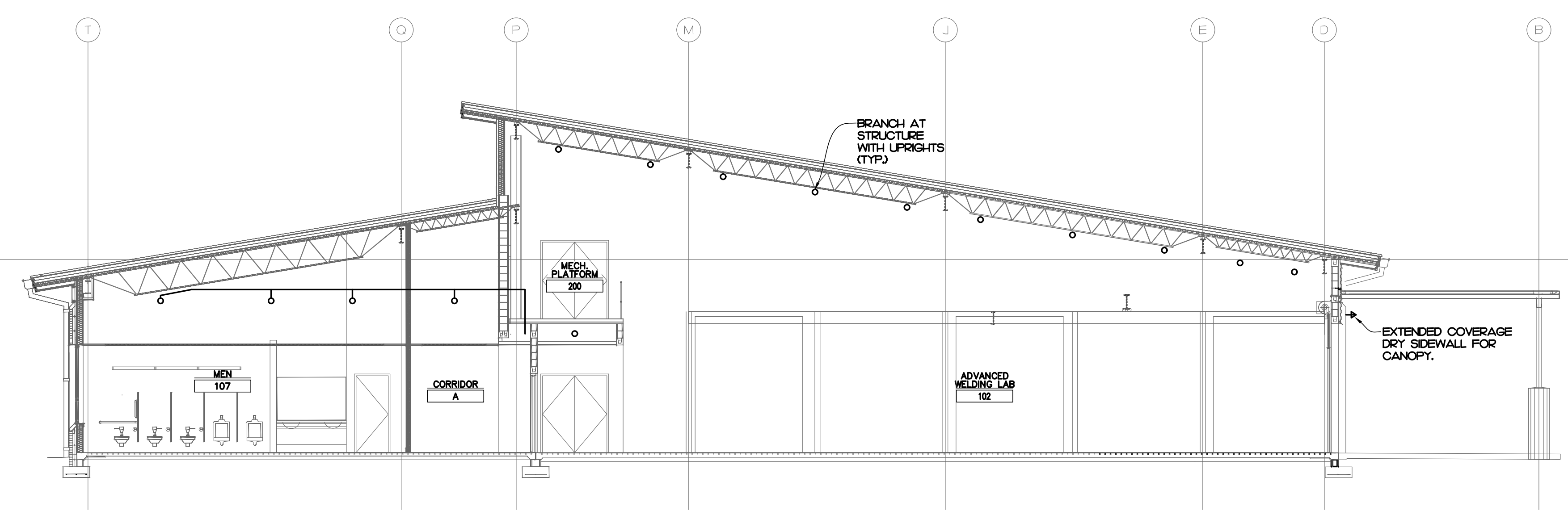
MINIMUM FLOOR OR WALL THICKNESS INCHES	NOMINAL PIPE, TUBE OR CONDUIT DIAMETER INCHES	MAXIMUM ANNULAR SPACE INCHES	MINIMUM CALK THICKNESS INCHES	F RATING
2 1/2	1/2 - 1/2	1 3/8	1/2	2
2 1/2	1/2 - 1/2	3/4	1/2	2
4 1/2	1/2 - 6	1 3/8	1/4 @	2
4 1/2	1/2 - 12	1 1/4	1/2	3
4 1/2	1/2 - 20	2	1	3
4 1/2	1/2 - 20	2	1	3
4 1/2	1/2 - 12	3/4	1	3
4 1/2	1/2 - 30	2	1	3
5 1/2	1/2 - 6	1 3/8	1 @	4

(G) MINIMUM 2" THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE.
(H) MINIMUM 1" THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MINIMUM 1" THICKNESS OF CALK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.
3M COMPANY - CP 25WB - CALK OR FB-3000 WT SEALANT. (THE W RATING APPLIES ONLY WHEN FB-3000 WT SEALANT IS USED).
BEARING THE UL CLASSIFICATION MARKING

WALL PENETRATION DETAIL (F14)
NO SCALE



ENLARGED RISER ROOM (F18)
1/4\"/>



FIRE PROTECTION SECTION VIEW
1/8\"/>

(A18)

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO REVISION DATE

JKF
ARCHITECTURE

425 LYNDALE CT, SUITE F, GREENVILLE, NC 27608 252-355-1048

PITT COMMUNITY COLLEGE
NEW WELDING BUILDING

WINTERVILLE, NC

DRAWING TITLE
FIRE PROTECTION SECTION VIEWS

SCALE
1/8\"/>

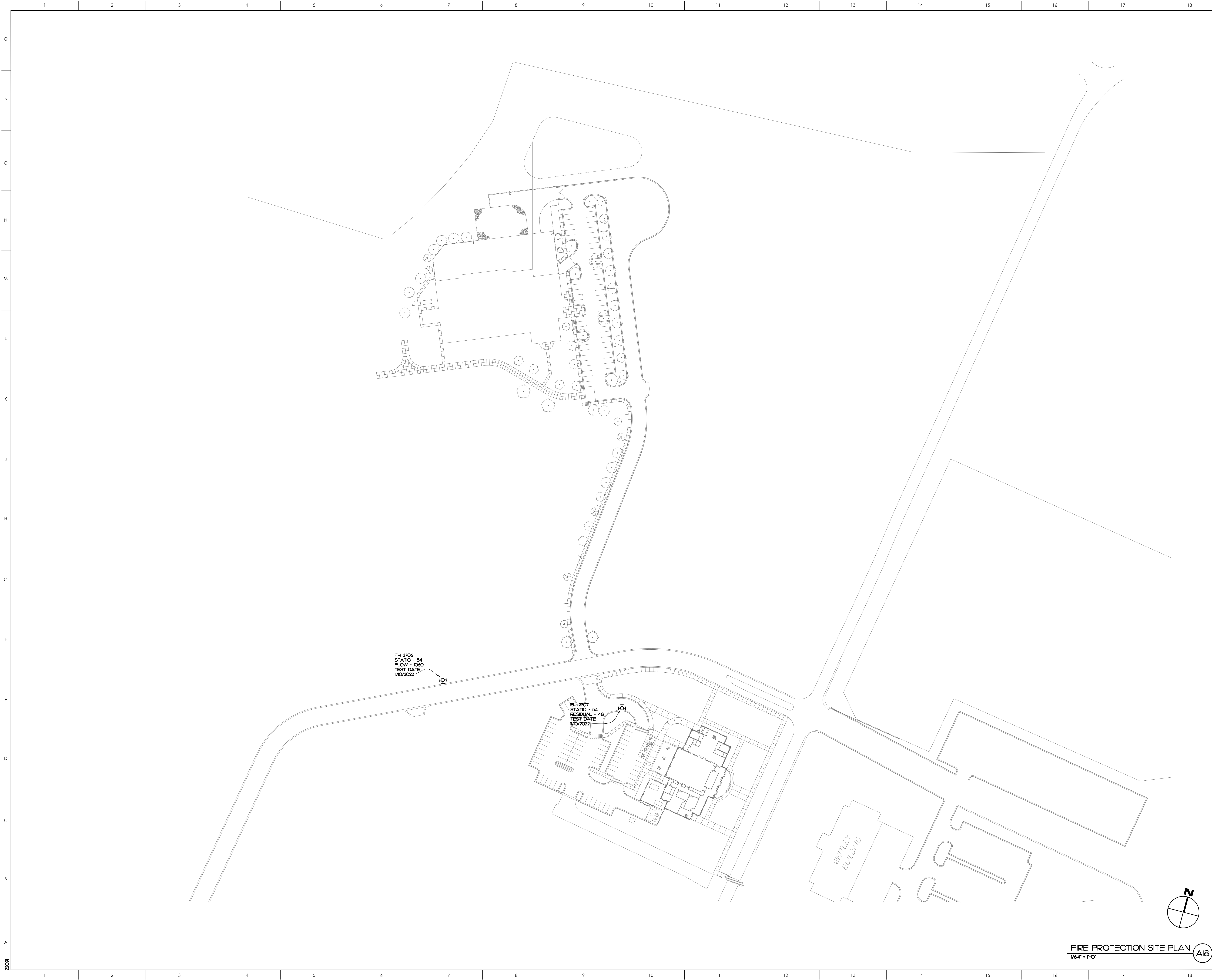
DRAWN
JAD

CHECKED
BWF

DATE
2-15-2024

PROJECT NO.
2022-07

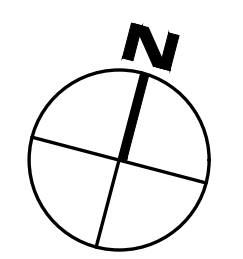
FP2.1



FH 2706
 STATIC - 54
 FLOW - 1360
 TEST DATE
 1/10/2022

FH 2707
 STATIC - 54
 RESIDUAL - 48
 TEST DATE
 1/10/2022

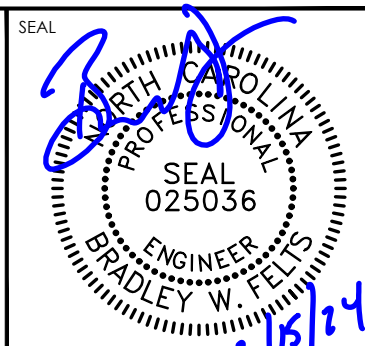
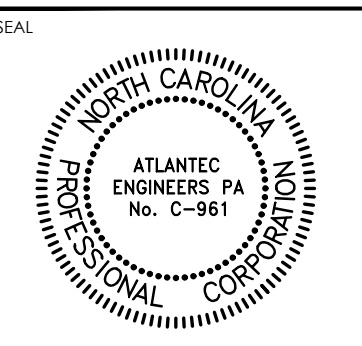
WHITLEY
 BUILDING



FIRE PROTECTION SITE PLAN
 1/64" = 1'-0"

(A18)

ATLANTEC
 ENGINEERS, PA
 322 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 PH 919 578 1111



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

JKF
 ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1048

**PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING**
 WINTERVILLE, NC

DRAWING TITLE
**FIRE PROTECTION
 SITE PLAN**

SCALE	1/8" = 1'-0"	DRAWING NO.	FP5.1
DRAWN	JAD		
CHECKED	BWF		
DATE	2-15-2024		
PROJECT NO.	2022-07		

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
----- ----- -----	COLD WATER PIPING
----- ----- -----	WATER PIPING DIRECTION OF FLOW
----- ----- -----	HOT WATER PIPING
----- ----- -----	HOT WATER RETURN PIPING
----- ----- -----	BALL VALVE
----- ----- -----	WATER PIPING TURNED DOWN
----- ----- -----	WATER PIPING TURNED UP
----- ----- -----	PIPING SIDE CONNECTION
----- ----- -----	COMPRESSED AIR PIPING
----- ----- -----	SANITARY SEWER / WASTE PIPING
----- ----- -----	SANITARY SEWER / WASTE PIPING DIRECTION OF FLOW
----- ----- -----	GREASE WASTE PIPING
----- ----- -----	ARGON GAS PIPING
----- ----- -----	ARGON MIX GAS PIPING
----- ----- -----	VENT PIPING
----- ----- -----	VENT PIPE UP
----- ----- -----	CONDENSATE PIPING
----- ----- -----	NON FREEZE WALL HYDRANT
----- ----- -----	HOSE BIB
----- ----- -----	PLUMBING FIXTURE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR
----- ----- -----	PLUMBING FIXTURE PROVIDED BY OTHERS AND INSTALLED BY PLUMBING CONTRACTOR
----- ----- -----	FLOOR CLEANOUT
----- ----- -----	WALL CLEANOUT
----- ----- -----	FLOOR DRAIN
----- ----- -----	S.A.
----- ----- -----	S.T.
----- ----- -----	V.T.R.
----- ----- -----	E.C.
----- ----- -----	T.M.V.
----- ----- -----	1-HOUR WALL PROTECT PENETRATIONS
----- ----- -----	WATER METER BY BAS

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR.
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN THE PLUMBING CONTRACTOR SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
4. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR AND FINISHING BY GENERAL CONTRACTOR.
7. ALL PIPE, FITTINGS, FIXTURES, AND SOLDER TO BE LEAD FREE.
8. WATER PIPING BELOW GRADE SHALL BE TYPE 1" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE 1" COPPER. SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR ONE HOUR AT 50 PSI TEST TO COMPLY WITH ALL EPA STANDARDS. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DEFLECTED PRIOR TO PLACING IN SERVICE.
9. WATER PIPING LOCATED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF CEILING INSULATION (UNDERSIDE) AND WALL INSULATION (INSIDE).
10. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED. INSULATE WASTE PIPING AS DESIGNATED ON PLUMBING DRAWINGS. INSULATION SHALL BE FIBERGLASS. EXPOSED PIPING TO BE WRAPPED WITH ALUMINUM JACKET.
11. STENCIL ALL PIPING WITH IDENTIFICATION AND FLOW ARROW • 10'-0" ON CENTER AT BOTH SIDES OF WALL PENETRATIONS AND AT EACH TAKE - OFF.
12. DO NOT SUPPORT PIPING FROM BAR JOIST BRIDGING AND/OR ROOF DECK.
13. WATER SHUT - OFF VALVES ABOVE FINISHED CEILING ARE TO BE FREE FROM OBSTRUCTIONS SUCH AS DUCTWORK, LIGHTS, WIRING AND OTHER PIPING SO AS TO PROVIDE EASY ACCESS. MOUNT NO MORE THAN 2'-0" ABOVE FINISHED CEILING.
14. IF THE WATER PRESSURE EXCEEDS 80 PSI A PRESSURE REDUCING VALVE SHALL BE INSTALLED WHERE THE WATER ENTERS THE BUILDING.
15. PLUMBING CONTRACTOR SHALL PROVIDE A DIELECTRIC UNION WHEN CONNECTING DISSIMILAR MATERIAL.
16. WATER HEATERS SHALL HAVE AND EFFICIENCY MEETING REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE.
17. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT FURNISHED UNDER HIS CONTRACT.
18. VENT AND SANITARY SEWER PIPING BELOW FINISHED GRADE AND/OR FLOOR SHALL BE SCHEDULE 40 PNC. CELLULAR CORE (FOAM CORE) IS NOT ALLOWED. VENT AND SANITARY SEWER PIPING ABOVE FINISHED GRADE AND/OR FLOOR SHALL BE CAST IRON. SANITARY SEWER AND VENT PIPING SHALL BE GAS AND AIR TIGHT.
19. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
20. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS FOR WORK BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH WORK BY OTHERS AND AVOID ALL CONFLICTS.
21. LOCATIONS OF UTILITIES (WASTE AND WATER PIPING, ETC.) PROVIDED BY OTHERS, THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE FINAL CONNECTIONS AS REQUIRED.
22. VERIFY THE LOCATION OF ALL EQUIPMENT SUPPLIED BY OTHERS.
23. GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL INSTALLED IN ACCORDANCE WITH ALL CODES. THE PLUMBING CONTRACTOR TO MAKE FINAL CONNECTION TO ALL EQUIPMENT REQUIRING GAS AND COORDINATE THE GAS CONNECTION SIZE TO THE EQUIPMENT. PROVIDE UNDERGROUND MAGNETIC TRACING TAPE ON ALL UNDERGROUND GAS PIPING.
24. COMPRESSED AIR PIPING SHALL BE 2" SCHEDULE 40 GALVANIZED STEEL AND TESTED AT 50 PSI FOR 24 HOURS. SEE PLANS FOR LINE SIZE TO DROPS AND EQUIPMENT.
25. ARGON AND ARGON MIX PIPING SHALL BE TYPE K COPPER AND TESTED AT 50 PSI FOR 24 HOURS.
26. ALL VENT PIPING THROUGH THE ROOF SHALL BE A MINIMUM OF 5'-0" FROM ALL MAKE-UP AIR INLETS OR A MINIMUM OF 2'-0" ABOVE THE TOP OF ALL MAKE-UP AIR INLETS. VENTS THROUGH ROOF ARE TO BE ON REAR OF BUILDING.
27. SEE ARCHITECTURAL DRAWINGS FOR PLUMBING MINIMUM FACILITY CALCULATIONS.
28. THE PLUMBING CONTRACTOR SHALL VERIFY BUILDING FLOOR ELEVATION IS ABOVE MAN-HOLE RIM ELEVATION OR PROVIDE A BACKWATER VALVE AS REQUIRED.
29. THE PLUMBING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.

COMPRESSED AIR SIZING

(8) HOSE REELS: 5 CFM • 6 • 40 CFM
 (6) AIR DROPS: 3 CFM • 16 • 54 CFM
 (48) DOUBLE WELD STATION: 3 CFM • 48 • 144 CFM
 (1) HOOD FILTRATION SYSTEM: 6 CFM • 1 • 6 CFM
 TOTAL LOAD: 244 CFM • 50% DIVERSITY FACTOR • 122 CFM

COORDINATION DRAWINGS

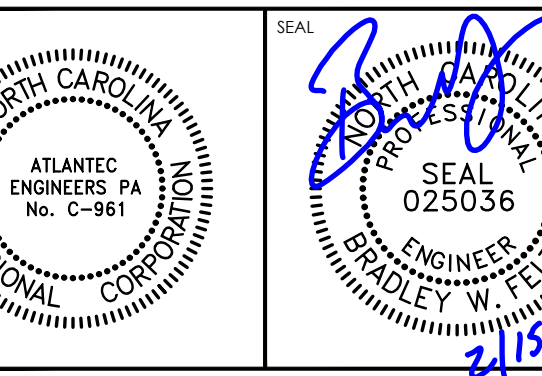
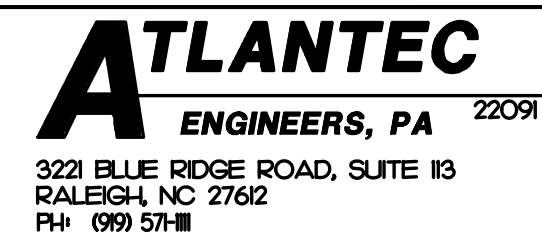
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION ELECTRICAL AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETINGS TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 09100.

PLUMBING LOAD SUMMARY

SANITARY SEWER DEMAND FU	WATER DEMAND FU	WATER DEMAND GPM
128.0	206.5	86.1

OIL INTERCEPTOR SIZING

AREA TO BE DRAINED:
 5,775 SQFT
 FIRST 100 SQFT • 6 CUFT
 REMAINING 5,675 SQFT • 50.75 CUFT
 TOTAL CAPACITY • 57 CUFT • 748 GALLON/CUFT • 175 GALLON



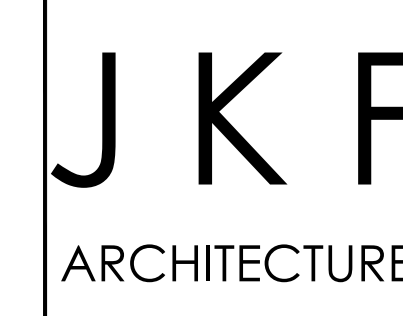
MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

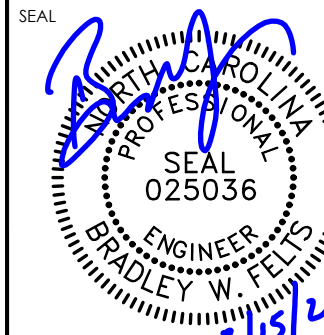
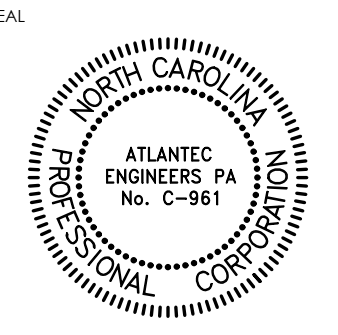


425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252.355.1048

**PITT COMMUNITY COLLEGE
NEW WELDING BUILDING**
WINTERTVILLE, NC

**PLUMBING GENERAL NOTES
AND LEGEND**

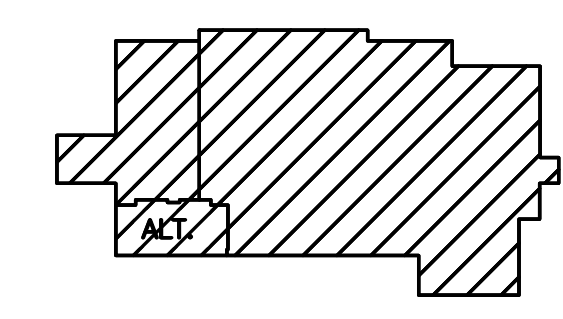
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DRAWN	NGB		
CHECKED	BWF		
DATE	2-15-2024		
PROJECT NO.	2022-07		



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

SEAL

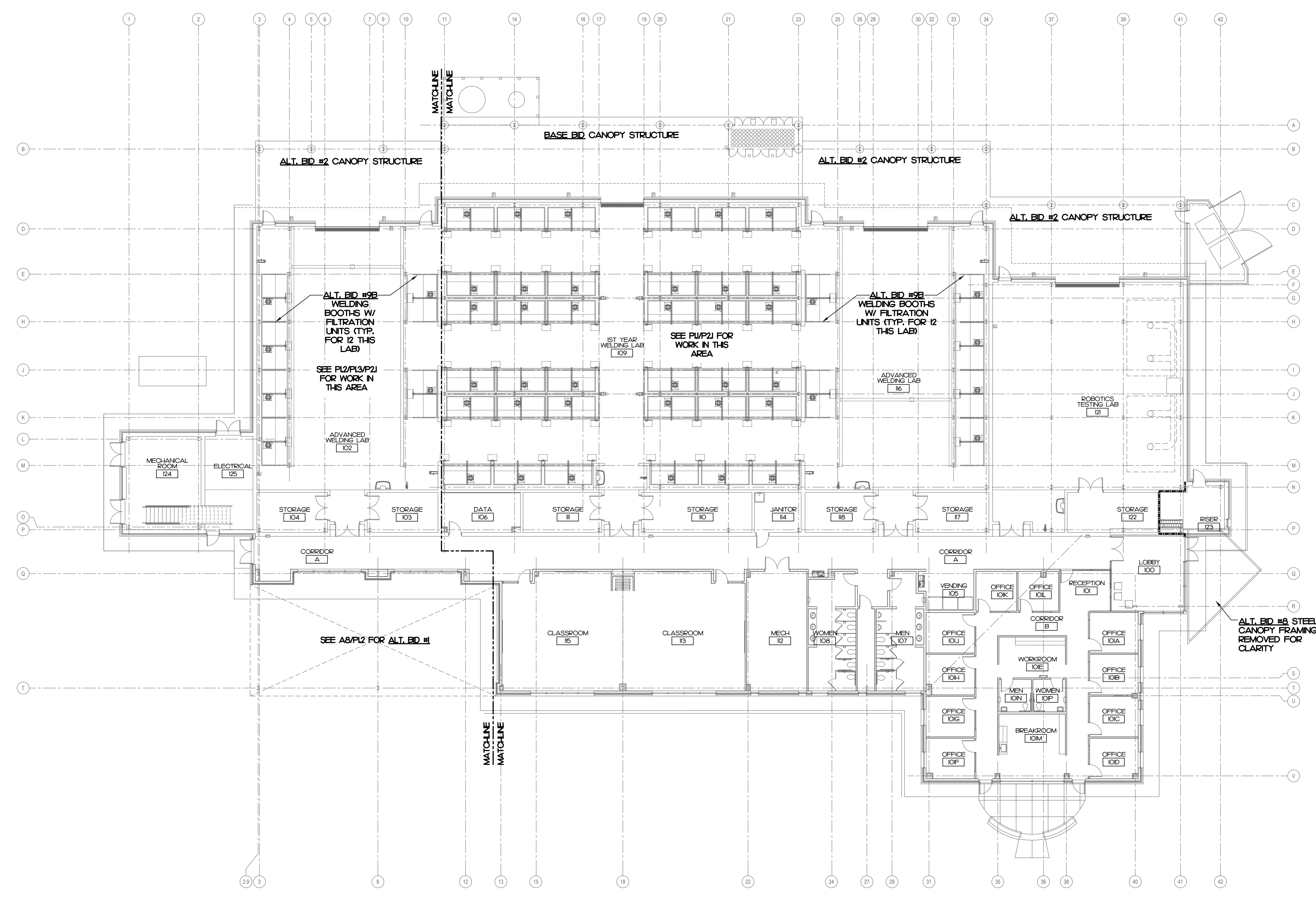
J K F
ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252.355.1048

**PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERSVILLE, NC**

DRAWING TITLE
PLUMBING OVERALL PLAN

SCALE NOT TO SCALE	DRAWING NO.
DRAWN NGB	P.I.O
CHECKED BWF	
DATE 2-15-2024	
PROJECT NO. 2022-07	

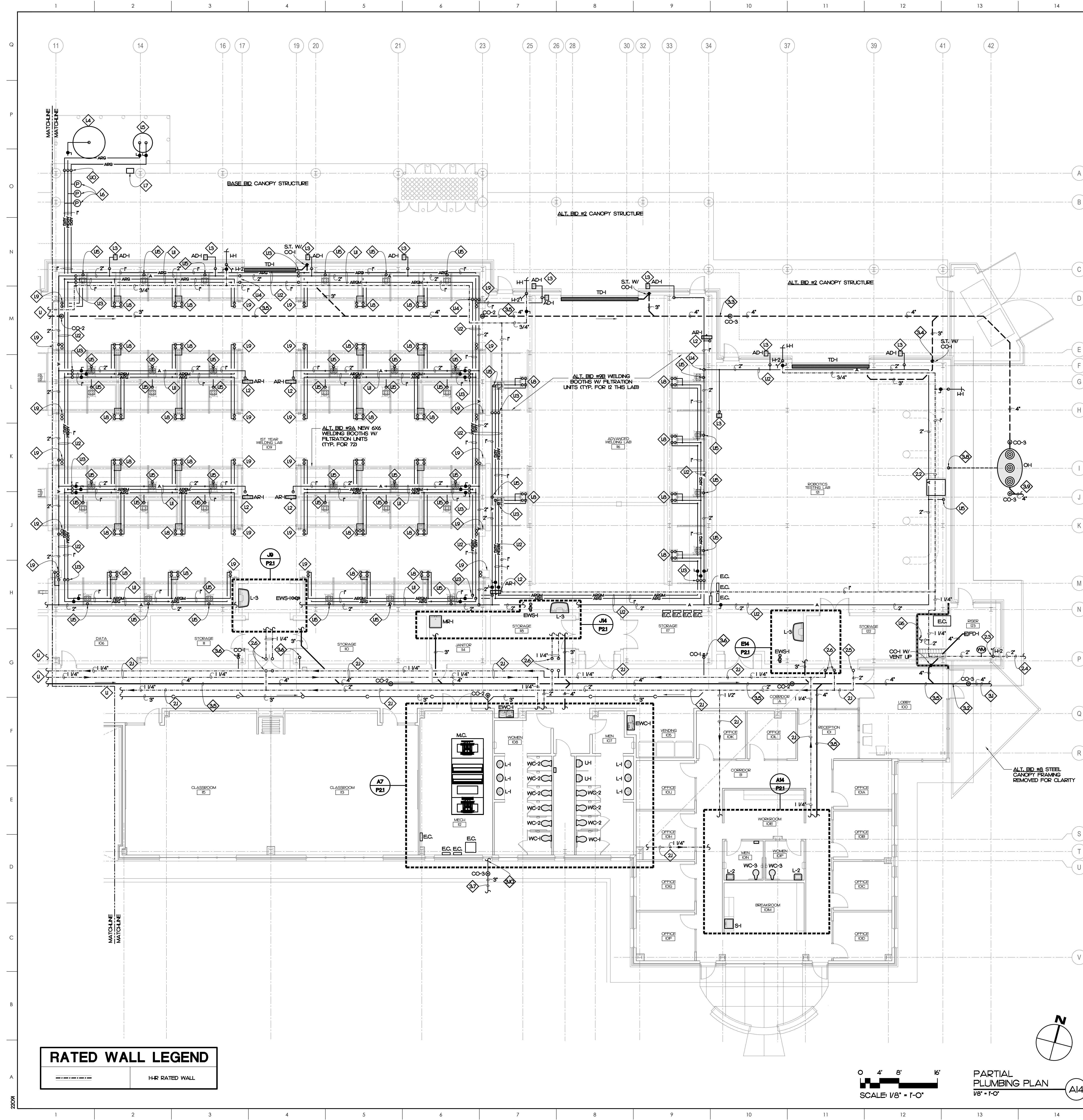


RATED WALL LEGEND

	1-HR RATED WALL
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OVERALL
PLUMBING PLAN
1/8" = 1'-0"

(A18)



PLUMBING KEY NOTES

- 11 SEE P12 FOR CONTINUATION.
- 12 COMPRESSED AIR HOSE REEL. SEE DETAIL J18/P41
- 13 COMPRESSED AIR PRESSURE REGULATOR. SEE DETAIL J4/P41
- 14 BULK ARGON MIX TANK BY SEPARATE OWNER CONTRACT. MAKE CONNECTION AS REQUIRED.
- 15 BULK ARGON TANK BY SEPARATE OWNER CONTRACT. MAKE CONNECTION AS REQUIRED.
- 16 ARGON/ARGON MIX LINE PRESSURE MONITOR FOR BUILDING AUTOMATION SYSTEM PROVIDED BY BAS CONTRACTOR AND INSTALLED BY P.C.
- 17 BULK GAS MIXER BY SEPARATE OWNER CONTRACT. MAKE CONNECTION AS REQUIRED.
- 18 WELD STATION END SHELF. SEE A4.3 FOR DETAILS. PROVIDE (2) 1/2" ARGON DROPS, (2) 1/2" ARGON MIX DROPS. SEE DETAIL N4/P41 CONTRACTOR TO PROVIDE ALL CONNECTIONS AS SHOWN ON PLANS AS PART OF BASE BID.
- 19 WELD STATION END SHELF. SEE A4.3 FOR DETAILS. PROVIDE (1) 1/2" ARGON DROP, (1) 1/2" ARGON MIX DROP. SEE DETAIL N4/P41 CONTRACTOR TO PROVIDE ALL CONNECTIONS AS SHOWN ON PLANS AS PART OF BASE BID.
- 20 1" ARGON/ARGON MIX RISE TO UNDERSIDE OF CANOPY STRUCTURE. ROUTE PIPING TIGHT TO COLUMN.
- 21 GAS PIPING ROUTED ON TOP OF STEEL WELDING BOOTH STRUCTURE. SEE A4.3 FOR WELD BOOTH DETAILS.
- 22 GAS PIPING ROUTED AT STRUCTURE. SEE NOTE U3 FOR DROPS DOWN TO WELDING BOOTHS
- 23 GAS PIPING DROP TO TOP OF STEEL WELDING BOOTH STRUCTURE.
- 24 GAS PIPING RISE TO STRUCTURE FROM TOP OF STEEL WELDING BOOTH STRUCTURE.
- 25 1" COMPRESSED AIR DROP TO FILTRATION ASSEMBLY. CONTRACTOR TO PROVIDE ALL CONNECTIONS AS SHOWN ON PLANS AS PART OF BASE BID. CONTRACTOR TO PROVIDE FINAL CONNECTION WITH BALL VALVE, DIRT LEG AND REGULATOR.
- 26 SEE P13 FOR CONTINUATION.
- 27 WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTOR'S.
- 28 WATER PIPING AT STRUCTURE. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTOR'S.
- 29 WATER PIPE RISE TO STRUCTURE.
- 30 2" COLD WATER PIPE TO BE LOCATED BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK BEGINS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
- 31 2" COLD WATER FROM ABOVE MEZZANINE SLAB. SEE P13 FOR CONTINUATION.
- 32 COLD AND HOT WATER TO/FROM ABOVE MEZZANINE SLAB. SEE P13 FOR CONTINUATION.
- 33 4" SANITARY SEWER PIPE TO BE LOCATED BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
- 34 INVERT ELEVATION IS TO BE 45' BELOW FINISHED FLOOR.
- 35 INVERT ELEVATION IS TO BE 37.5' BELOW FINISHED FLOOR.
- 36 INVERT ELEVATION IS TO BE 20' BELOW FINISHED FLOOR.
- 37 SANITARY SEWER PIPE BELOW FINISHED FLOOR.
- 38 3" CONDENSATE DOWN TO BELOW FINISHED GRADE FROM CEILING OF FIRST FLOOR. SEE P13 FOR CONTINUATION.
- 39 3" CONDENSATE PIPE TO BE LOCATED BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING. CONNECT TO STORM SYSTEM. SEE SITE PLAN FOR CONTINUATION.
- 40 3" VENT PIPING RISE. SEE P13 FOR CONTINUATION.
- 41 SEE SITEPLAN FOR CONTINUATION.
- 42 INVERT ELEVATION IS TO BE 25' BELOW FINISHED FLOOR.

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 P# 919 5788

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 ATLANTEC ENGINEERS, PA
 No. C-361

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 025036
 ENGINEER JOHN H. FARLEY W. 11/19/14

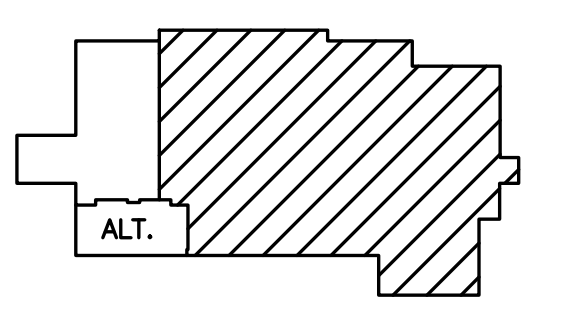
MATERIALS KEYING LEGEND

NO.	REVISION	DATE

GENERAL NOTES

SCO ID #22-25191-01A; NCCCS #2675

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO REVISION DATE

SEAL

J K F
 ARCHITECTURE

625 LYNDALE CT. SUITE F, GREENVILLE, NC 27608 252.355.1048

**PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING**
 WINTERVILLE, NC

DRAWING TITLE: **PARTIAL PLUMBING PLAN**

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

DRAWN: NGB
 CHECKED: BWF
 DATE: 2-15-2024
 PROJECT NO: 2022-07

PII

RATED WALL LEGEND

	HR RATED WALL
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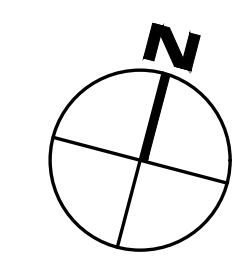
PIPING SYMBOL LEGEND

	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	COMPRESSED AIR PIPING
	SANITARY SEWER / WASTE PIPING
	GREASE WASTE PIPING
	ARGON GAS PIPING
	ARGON MIX GAS PIPING
	CONDENSATE PIPING



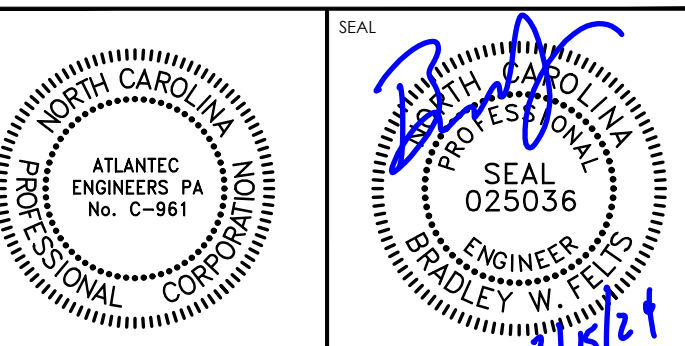
PARTIAL PLUMBING PLAN
 1/8" = 1'-0"

A14



PLUMBING KEY NOTES

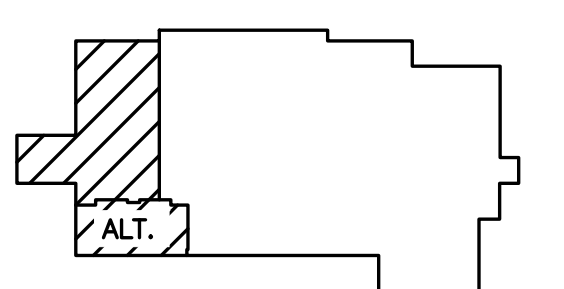
- 11 SEE PJ FOR CONTINUATION.
- 12 COMPRESSED AIR HOSE REEL. SEE DETAIL J8/P41
- 13 COMPRESSED AIR PRESSURE REGULATOR. SEE DETAIL J4/P41
- 14 2" COMPRESSED AIR FROM COMPRESSOR/AIR DRYER AND RISE TO STRUCTURE. SEE DETAIL N8/P41 FOR PIPING DETAILS.
- 15 AIR COMPRESSOR. SEE DETAIL N8/P41
- 16 AIR DRYER. SEE DETAIL N8/P41
- 17 LINE PRESSURE MONITOR FOR BUILDING AUTOMATION SYSTEM, PROVIDED BY BAS CONTRACTOR AND INSTALL BY P.C.
- 18 WELD STATION END PANEL. SEE ARCHITECTURAL FOR DETAILS. PROVIDE (2) 1/2" ARGON DROPS, (2) 1/2" ARGON MIX DROPS. SEE DETAIL N4/P41 CONTRACTOR TO PROVIDE ALL CONNECTIONS AS SHOWN ON PLANS AS PART OF BASE BID.
- 19 GAS PIPING ROUTED ON TOP OF STEEL WELDING BOOTH STRUCTURE. SEE A4.3 FOR WELD BOOTH DETAILS.
- 20 GAS PIPING ROUTED AT STRUCTURE. SEE NOTE U FOR DROPS DOWN TO WELDING BOOTHS
- 21 GAS PIPING DROP TO TOP OF STEEL WELDING BOOTH STRUCTURE.
- 22 GAS PIPING RISE TO STRUCTURE FROM TOP OF STEEL WELDING BOOTH STRUCTURE.
- 23 1" COMPRESSED AIR DROP TO FILTRATION ASSEMBLY. CONTRACTOR TO PROVIDE ALL CONNECTIONS AS SHOWN ON PLANS AS PART OF BASE BID. CONTRACTOR TO PROVIDE FINAL CONNECTION WITH BALL VALVE, DIRT LEG, AND REGULATOR.
- 24 40° HOT WATER TEMPERATURE SENSOR FOR BUILDING AUTOMATION SYSTEM. PROVIDED BY BAS CONTRACTOR AND INSTALLED BY P.C.
- 25 3/4" COLD WATER FROM ABOVE. SEE AIB/P3 FOR CONTINUATION.
- 26 1" COLD WATER FROM ABOVE FOR BACKFLOW FOR MAKE-UP WATER ASSEMBLY. SEE MECHANICAL FOR CONTINUATION.
- 27 SEE AIB/P3 FOR CONTINUATION.
- 28 1 1/4" COLD/HOT WATER AND 1" HOT WATER RETURN RISE TO ABOVE MEZZANINE SLAB. SEE AIB/P3 FOR CONTINUATION.
- 29 COLD AND HOT WATER TOP/RUN ABOVE MEZZANINE SLAB. SEE P3 FOR CONTINUATION.
- 30 SANITARY SEWER PIPE BELOW FINISHED FLOOR.
- 31 3" CONDENSATE DOWN TO BELOW FINISHED GRADE FROM CEILING OF FIRST FLOOR. SEE P3 FOR CONTINUATION.



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

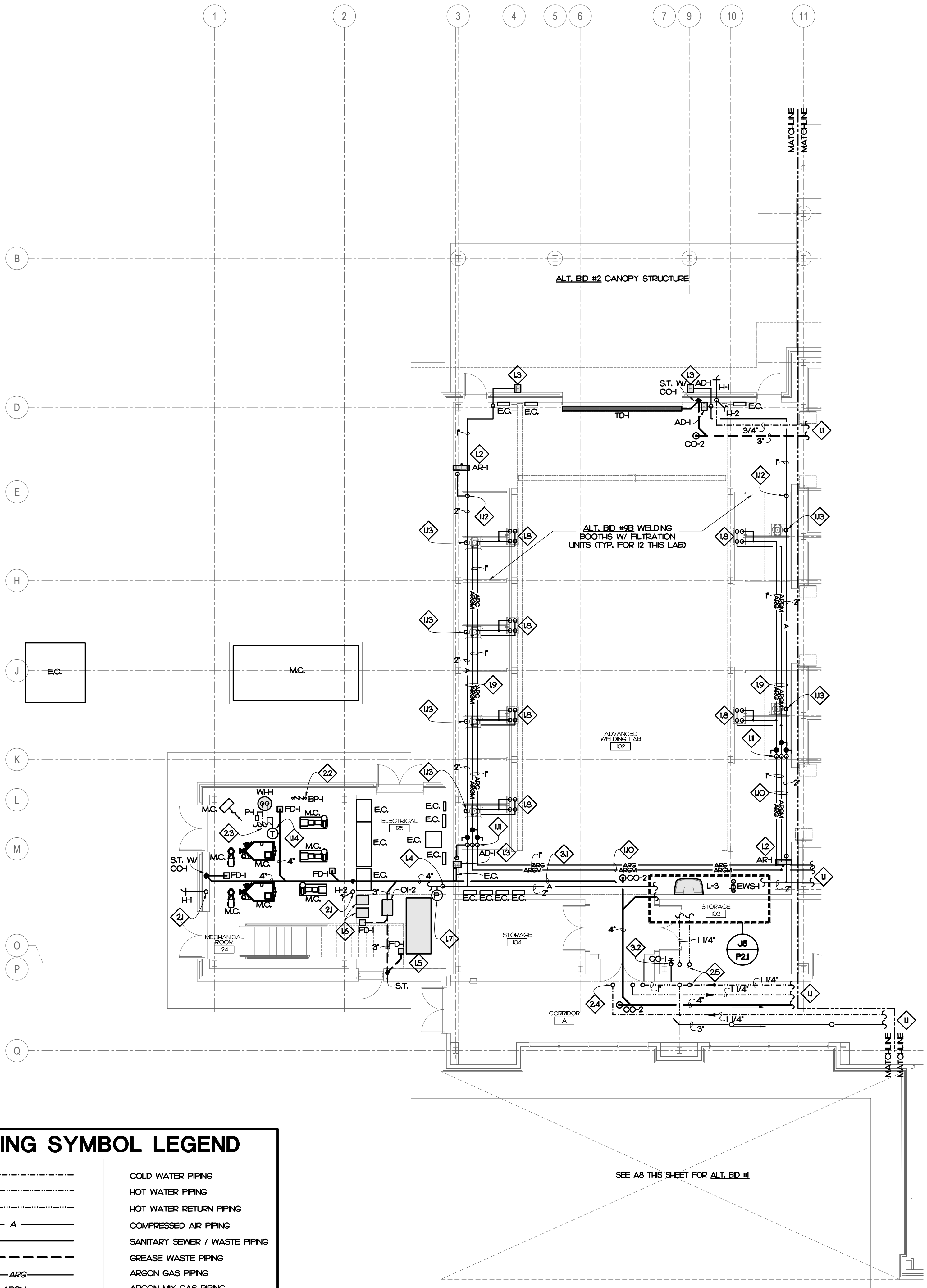
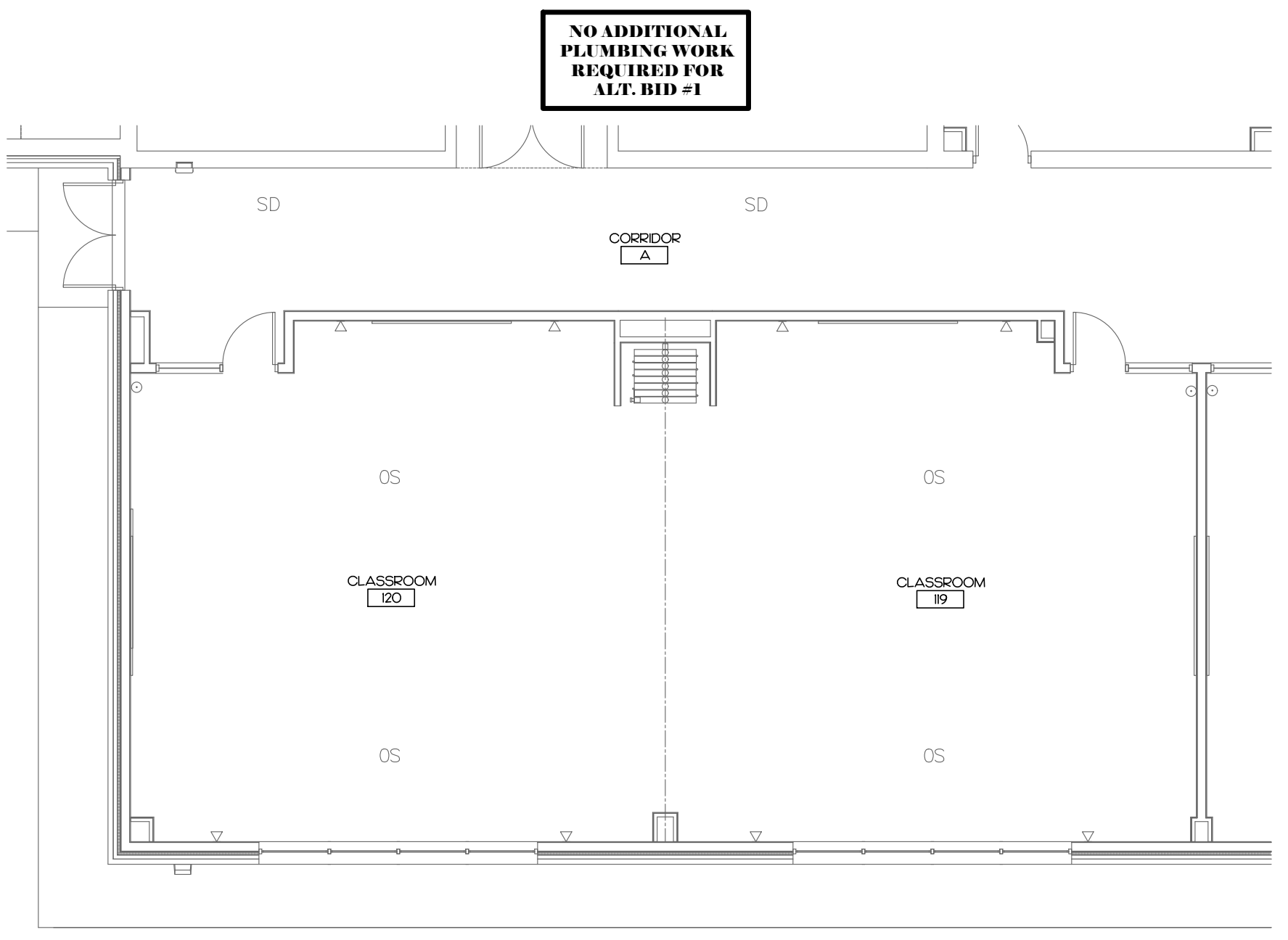
J K F
 ARCHITECTURE

625 LYNDALE CT, SUITE F, GREENVILLE, NC 27658 252.355.1048

**PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING
 WINTERVILLE, NC**

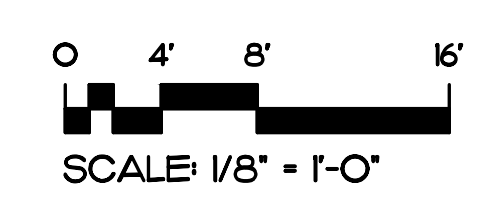
DRAWING TITLE: **PARTIAL PLUMBING PLAN**

SCALE: 1/8" = 1'-0"	DRAWING NO: P1.2
DRAWN: NGB	
CHECKED: BWF	
DATE: 2-15-2024	
PROJECT NO: 2022-07	

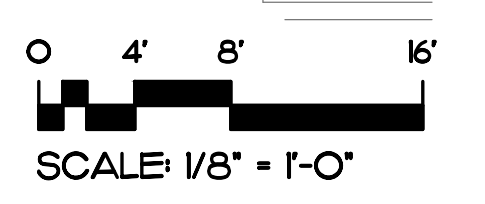


PIPING SYMBOL LEGEND

---	COLD WATER PIPING
----	HOT WATER PIPING
----	HOT WATER RETURN PIPING
----	COMPRESSED AIR PIPING
----	SANITARY SEWER / WASTE PIPING
----	GREASE WASTE PIPING
----	ARGON GAS PIPING
----	ARGON MIX GAS PIPING
----	CONDENSATE PIPING



ALT. BID #1
 PARTIAL
 PLUMBING PLAN
 1/8" = 1'-0" **A8**



PARTIAL
 PLUMBING PLAN
 1/8" = 1'-0" **A18**

PLUMBING KEY NOTES

- 21 1/4" COLD/HOT WATER AND 3/4" HOT WATER RETURN TO WHI AND P-1. SEE AIB/P12 FOR CONTINUATION.
- 22 COORDINATE LOCATION OF WATER PIPE ROUTING WITH MECHANICAL AND ELECTRICAL CONTRACTOR'S.
- 23 3/4" COLD WATER DOWN TO HOSE BIBB. SEE AIB/P12 FOR CONTINUATION.
- 24 1" COLD WATER DOWN EP-1 FOR MAKE-UP WATER ASSEMBLY. SEE AIB/P12 FOR CONTINUATION.
- 25 1/4" COLD/HOT WATER AND 1" HOT WATER RETURN FROM BELOW. SEE AIB/P12 FOR CONTINUATION.
- 26 1/4" COLD/HOT WATER AND 1" HOT WATER RISE TO STRUCTURE ABOVE. RISE TIGHT TO COLUMN.
- 27 WATER PIPING ABOVE MEZZANINE SLAB FROM ABOVE CORRIDOR A CEILING. SEE PU FOR CONTINUATION.
- 28 COLD AND HOT WATER DROP TO UNDERSIDE OF MEZZANINE SLAB. SEE PU AND P21 FOR CONTINUATION.
- 29 2" COLD WATER DROP TO ABOVE MEZZANINE SLAB. WATER PIPING TO CONTINUE TO ABOVE CORRIDOR A. SEE PU FOR CONTINUATION.
- 30 SEE PU FOR CONTINUATION.
- 31 2" CONDENSATE HUB DRAIN DOWN TO FIRST FLOOR AT MEZZANINE STRUCTURE. SEE PU AND P21 FOR CONTINUATION.
- 32 CONDENSATE PIPE ROUTED BELOW MEZZANINE SLAB IN FIRST FLOOR CEILING. ROUTE TIGHT TO STRUCTURE.
- 33 3" CONDENSATE DOWN TO FIRST FLOOR BFG.
- 34 3" VENT PIPING FROM BELOW THROUGH ROOF.

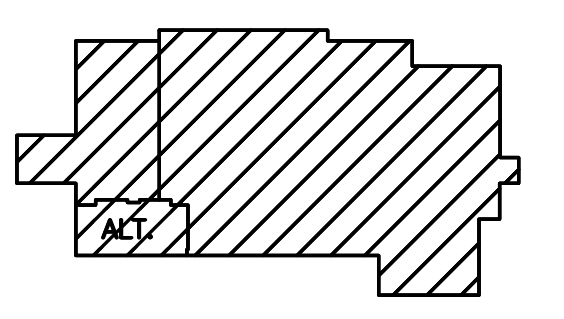
ATLANTEC ENGINEERS, PA
 322 BLUE RIDGE ROAD, SUITE 19
 RALEIGH, NC 27602
 PH: 919 578-1111

SEAL: [Signature]
 ATLANTEC ENGINEERS, PA
 No. C-361
 025036
 J. K. FARNS, AIA

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

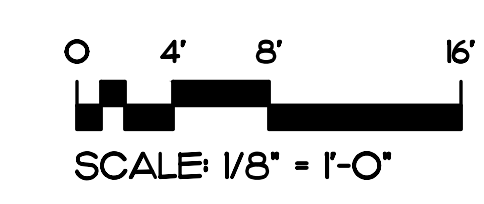


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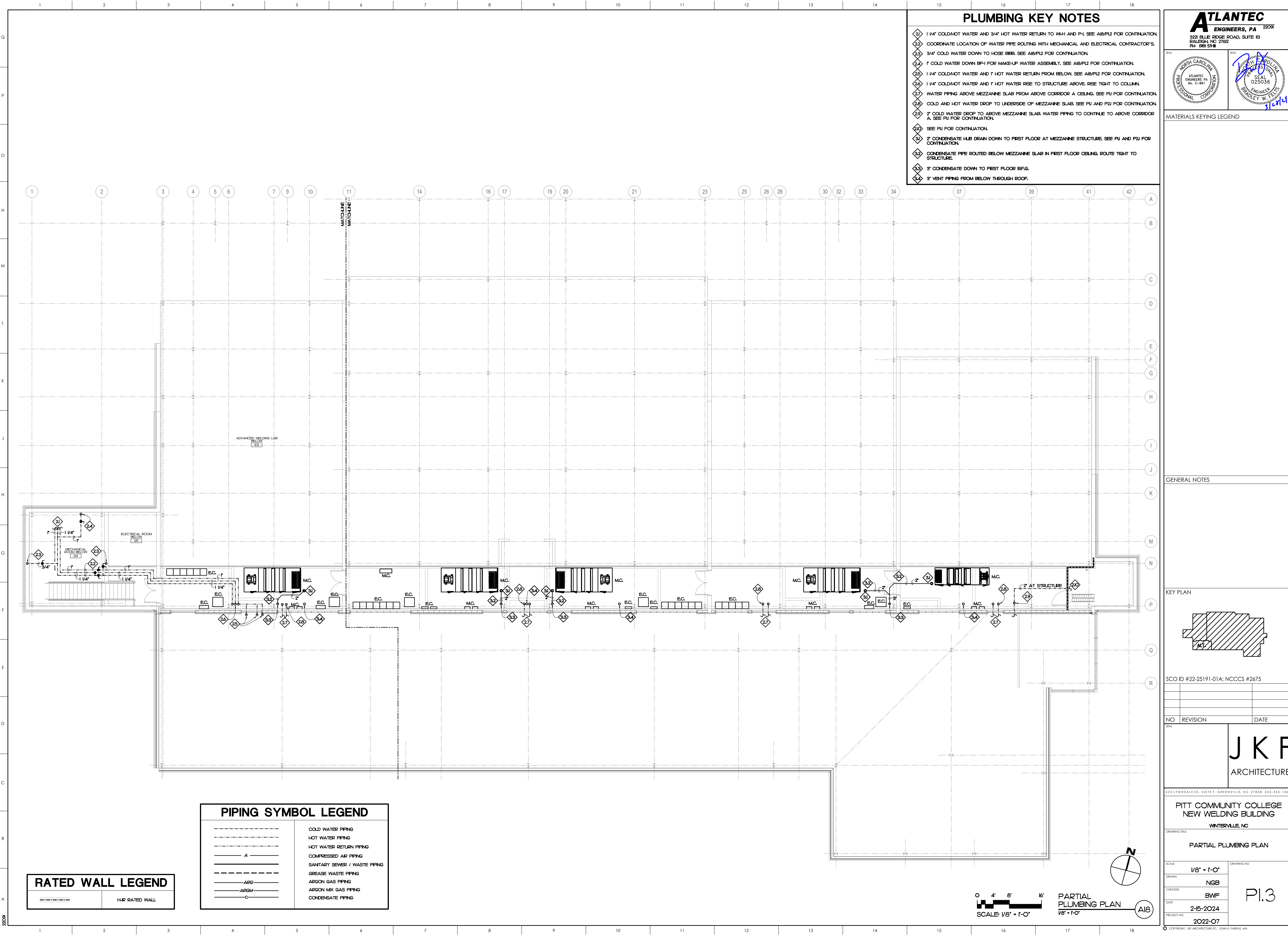
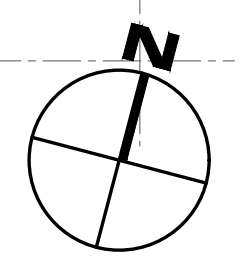
NO.	REVISION	DATE
425 LYNDALE CT., SUITE F, GREENVILLE, NC 27608 252-355-1048		
PITT COMMUNITY COLLEGE NEW WELDING BUILDING WINTERSVILLE, NC		
DRAWING TITLE: PARTIAL PLUMBING PLAN		
SCALE:	1/8" = 1'-0"	DRAWING NO:
DRAWN:	NGB	P1.3
CHECKED:	BWF	
DATE:	2-15-2024	
PROJECT NO.:	2022-07	

	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	COMPRESSED AIR PIPING
	SANITARY SEWER / WASTE PIPING
	GREASE WASTE PIPING
	ARGON GAS PIPING
	ARGON MIX GAS PIPING
	CONDENSATE PIPING

	H-R RATED WALL
--	----------------



PARTIAL PLUMBING PLAN
 1/8" = 1'-0"



PLUMBING KEY NOTES

- 11 SEE PJ FOR CONTINUATION.
- 12 SEE PJ FOR CONTINUATION.
- 13 COMPRESSED AIR HOSE REEL BY OTHERS.
- 14 LOW VOLTAGE TRANSFORMER MOUNTED TO WALL IN CHASE PROVIDED BY PLUMBING CONTRACTOR. LOW VOLTAGE WIRING TO WATER CLOSET PROVIDED BY PLUMBING CONTRACTOR. SEE DETAIL AM/P4.2.
- 15 LOW VOLTAGE TRANSFORMER ABOVE FINISHED CEILING PROVIDED BY PLUMBING CONTRACTOR. LOW VOLTAGE WIRING TO WATER CLOSET PROVIDED BY PLUMBING CONTRACTOR. SEE DETAIL AM/P4.2.
- 21 WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTOR'S.
- 22 WATER PIPE DOWN FROM ABOVE MEZZANINE SLAB. SEE PJ AND PJ3 FOR CONTINUATION.
- 23 WATER PIPE RISE TO STRUCTURE.
- 24 ROUTE WATER PIPE TIGHT TO WALL AND OVER TO FIXTURE.
- 25 WATER PIPING AT STRUCTURE OF MEZZANINE FLOOR.
- 31 SANITARY SEWER PIPE BELOW FINISHED FLOOR.
- 32 2" HUB DRAIN.

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 PH 919 578-1111

SEAL: [Professional Engineer Seal for Atlanticc Engineers, PA, No. C-361, State of North Carolina]

SEAL: [Professional Engineer Seal for Atlanticc Engineers, PA, No. 025036, State of North Carolina]

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

J K F
 ARCHITECTURE

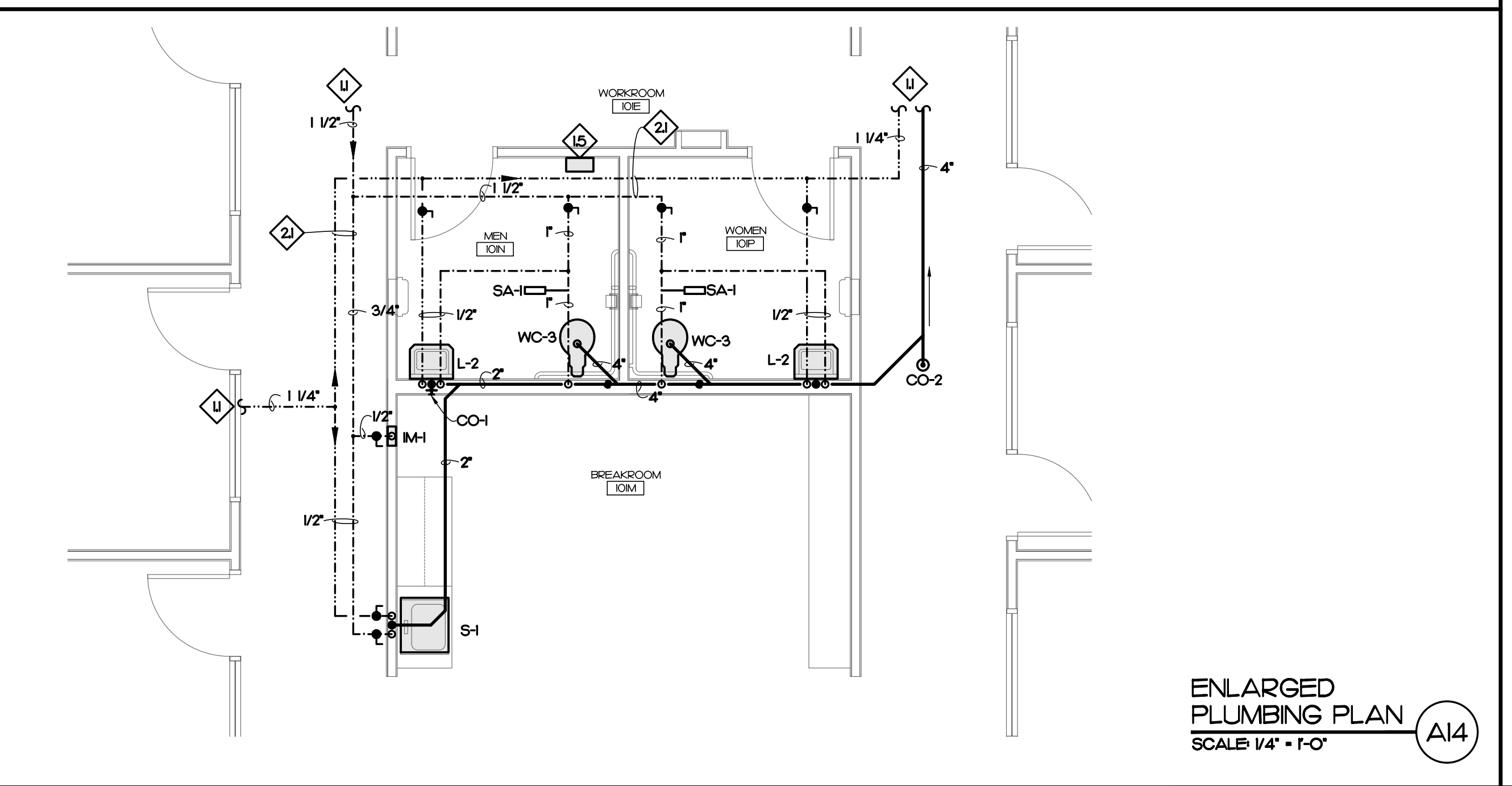
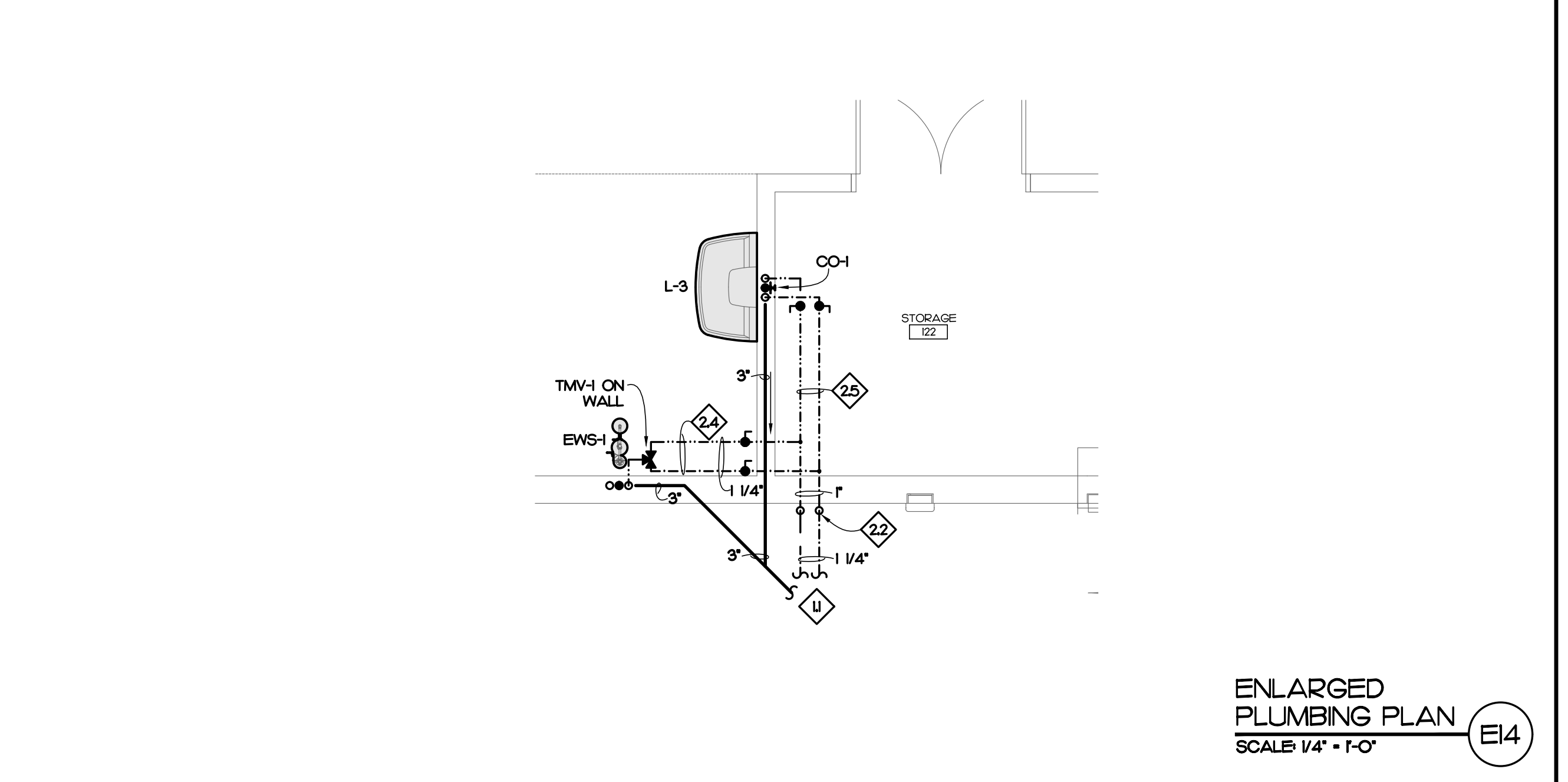
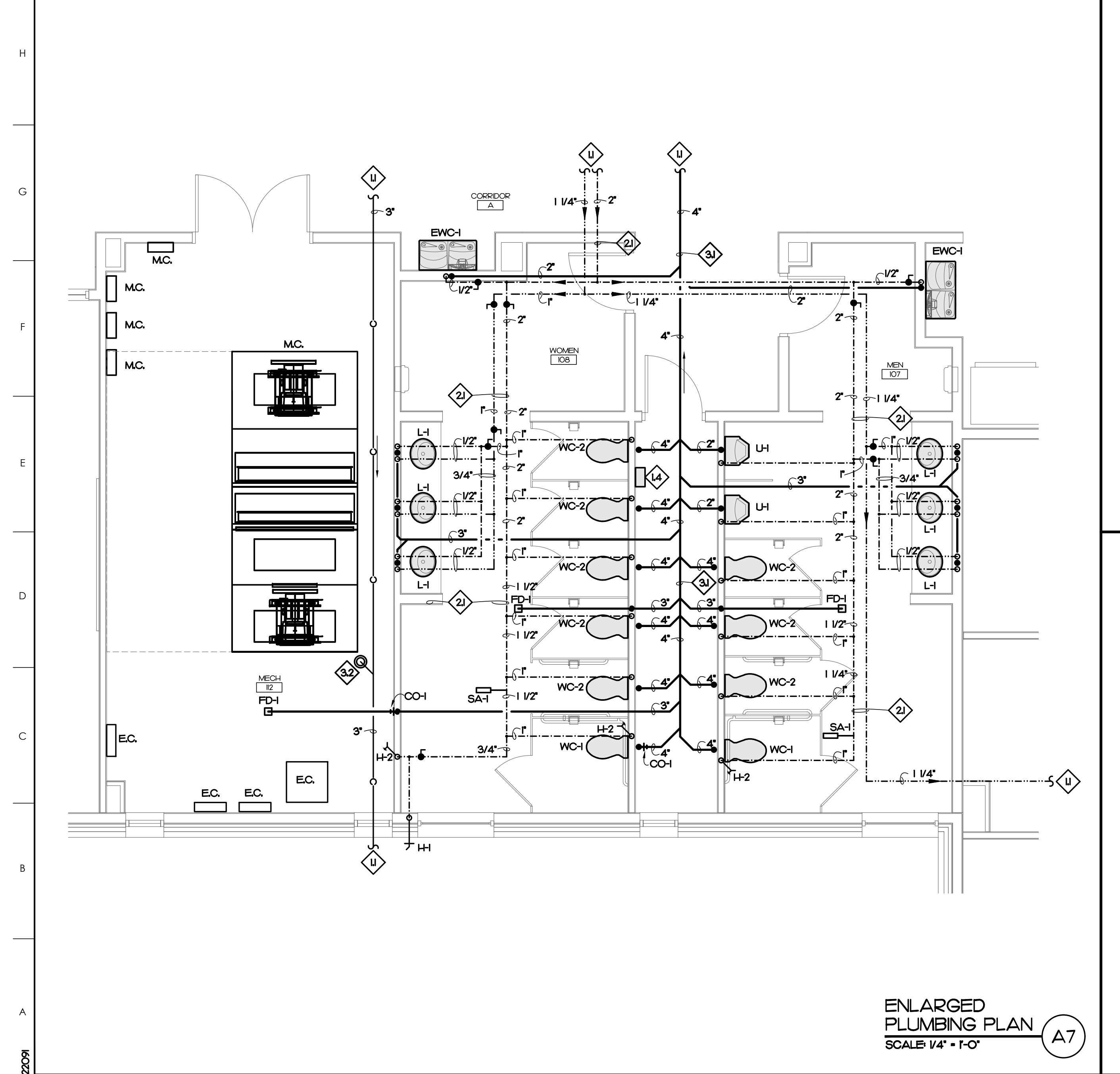
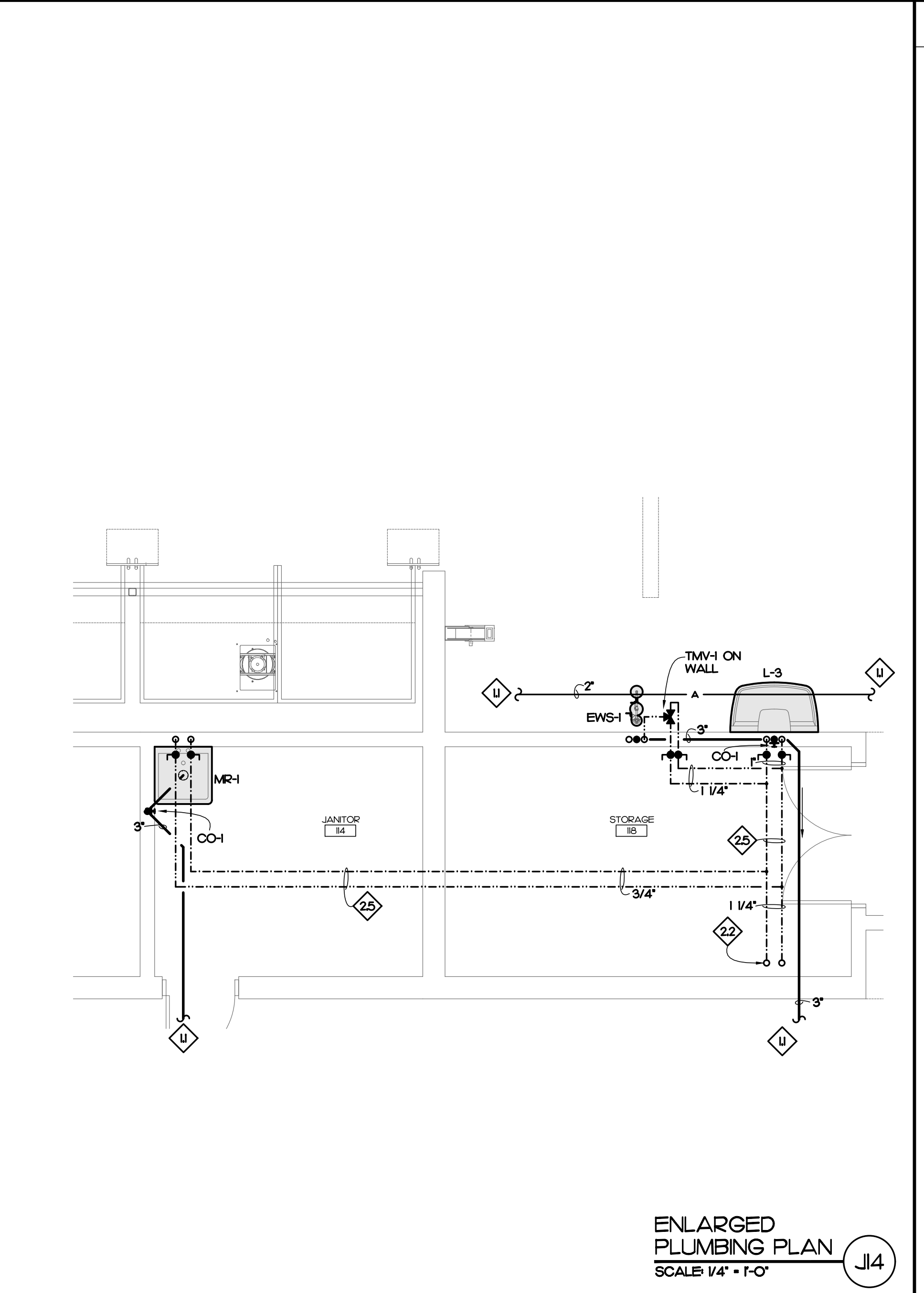
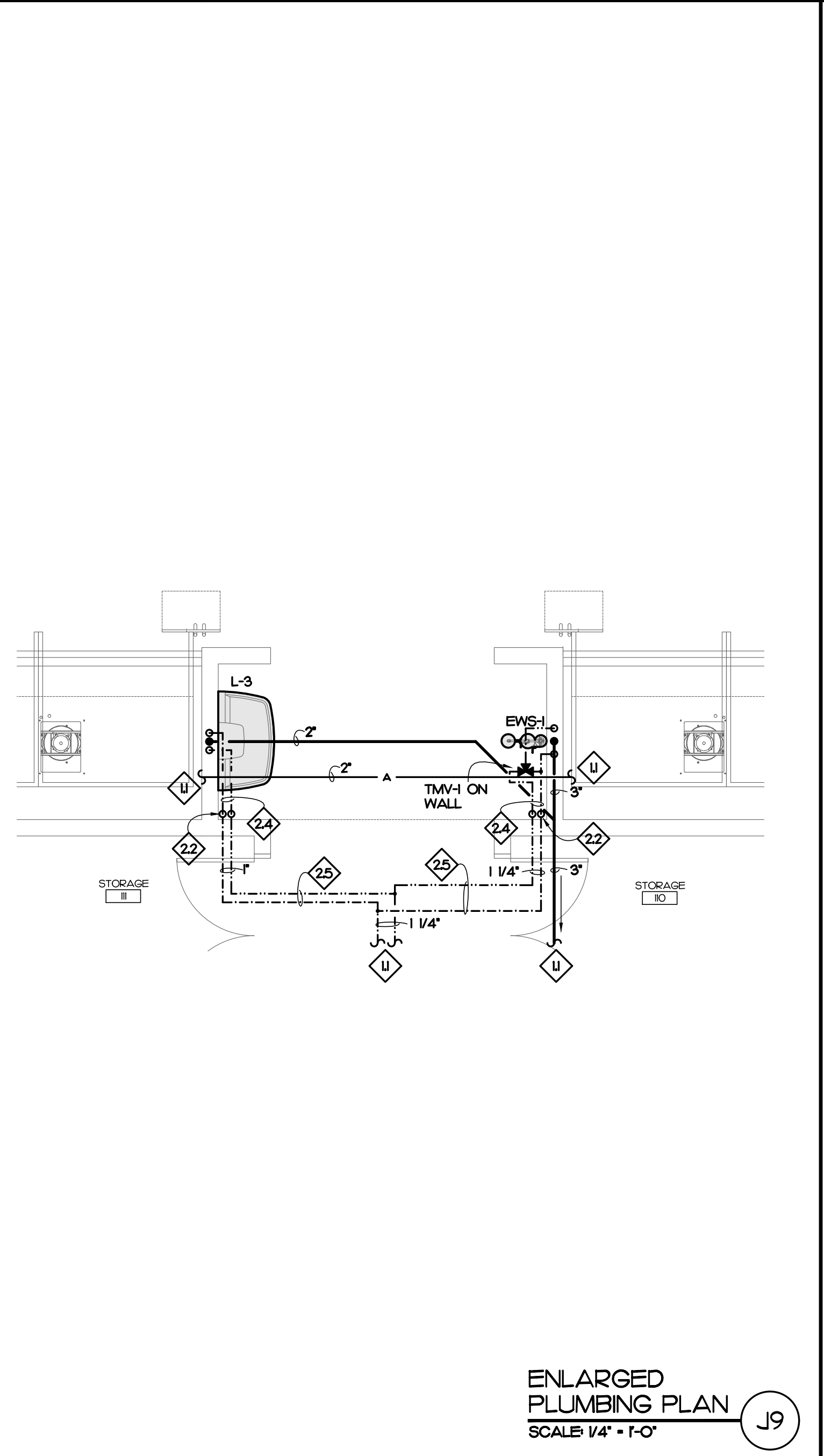
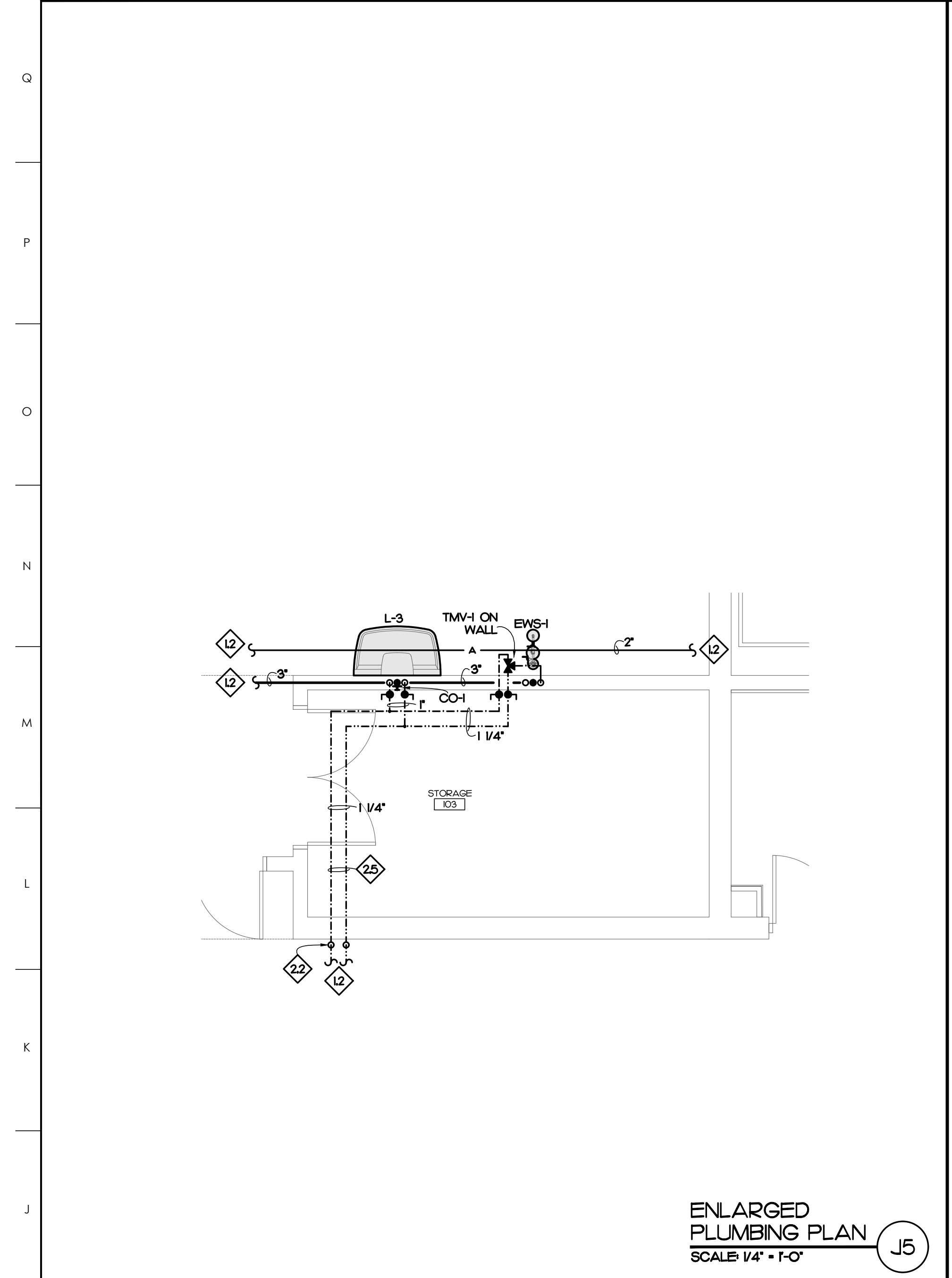
425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252.355.1048

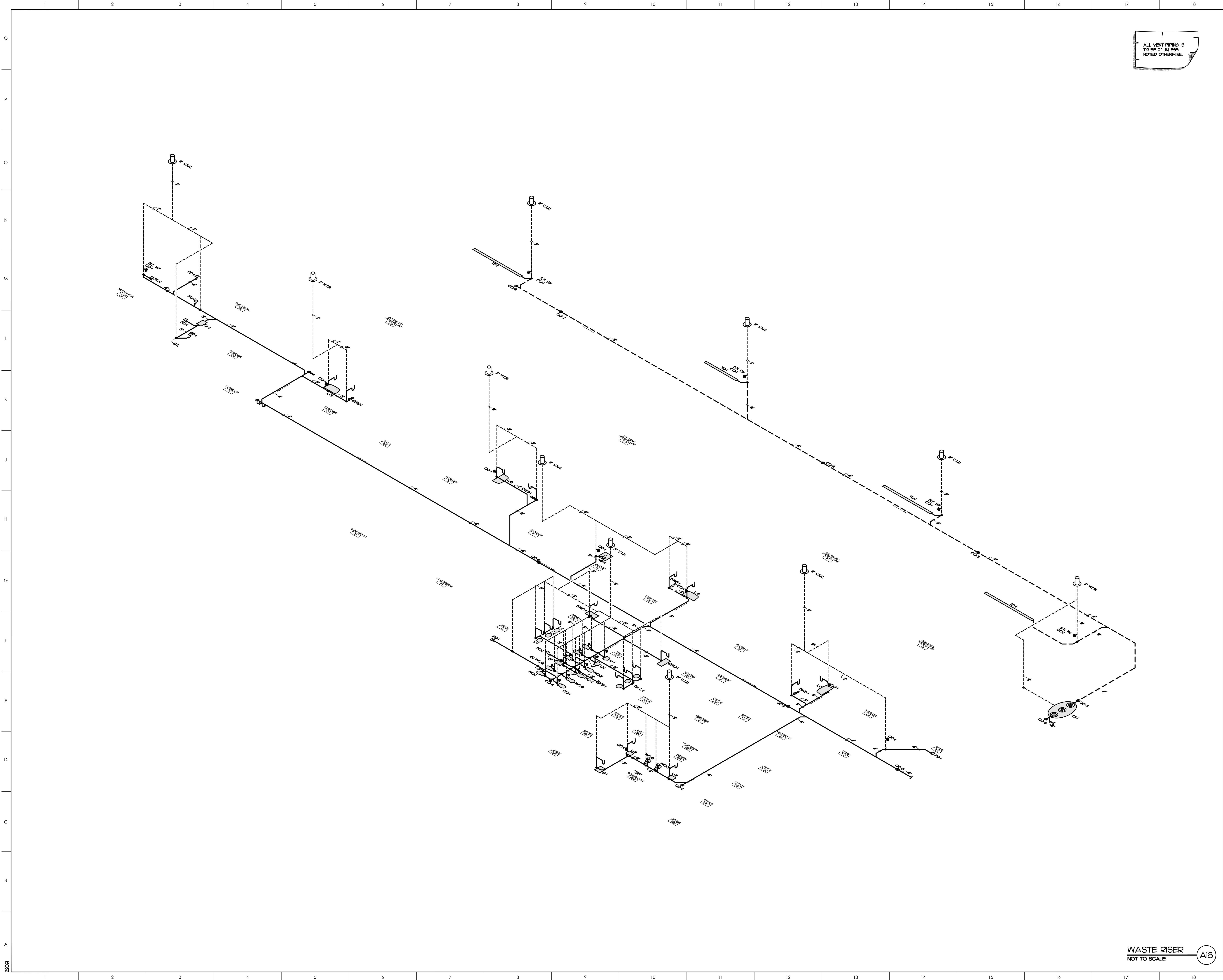
**PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING
 WINTERVILLE, NC**

DRAWING TITLE: **ENLARGED PLUMBING PLANS**

SCALE: 1/4" = 1'-0"	DRAWING NO: P2.1
DRAWN: NGB	
CHECKED: BWF	
DATE: 2-15-2024	
PROJECT NO: 2022-07	

PIPING SYMBOL LEGEND	
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	COMPRESSED AIR PIPING
	SANITARY SEWER / WASTE PIPING
	GREASE WASTE PIPING
	ARGON GAS PIPING
	ARGON MIX GAS PIPING
	CONDENSATE PIPING





ALL VENT PIPING IS
TO BE 2" UNLESS
NOTED OTHERWISE.

ATLANTEC
ENGINEERS, PA 22091
322 BLUE RIDGE ROAD, SUITE 19
RALEIGH, NC 27602
PH 919 578

SEAL [Signature] 2/15/24
ATLANTEC ENGINEERS PA
No. C-361
PROFESSIONAL CORPORATION

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

J K F
ARCHITECTURE

425 LYNDALE CT, SUITE F, GREENVILLE, NC 27608 252-355-1048

**PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC**

DRAWING TITLE
WASTE RISER PLAN

SCALE	AS NOTED	DRAWING NO.	P3.1
DRAWN	NGB		
CHECKED	BWF		
DATE	2-15-2024		
PROJECT NO.	2022-07		

WASTE RISER
NOT TO SCALE



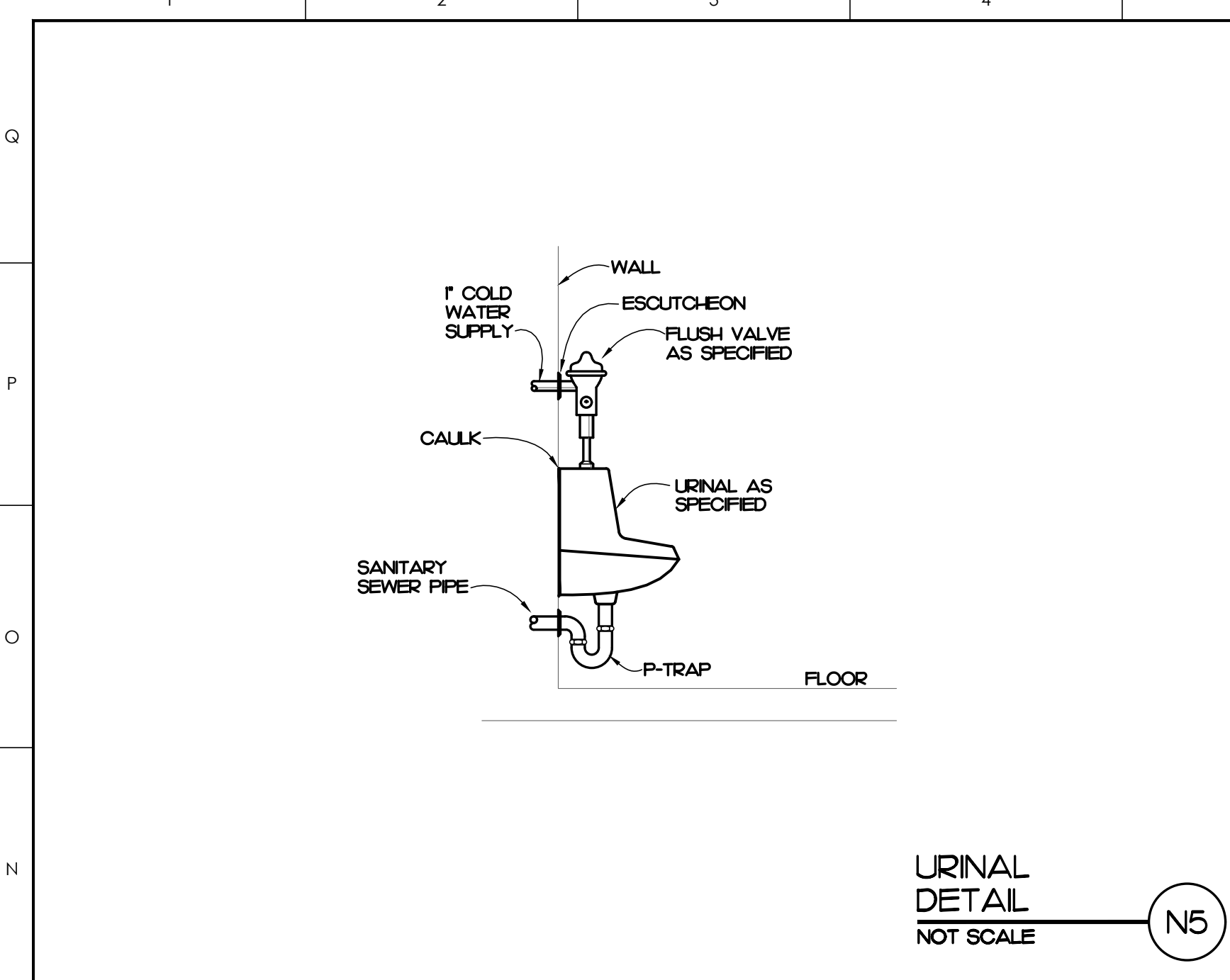
MATERIALS KEYING LEGEND

GENERAL NOTES

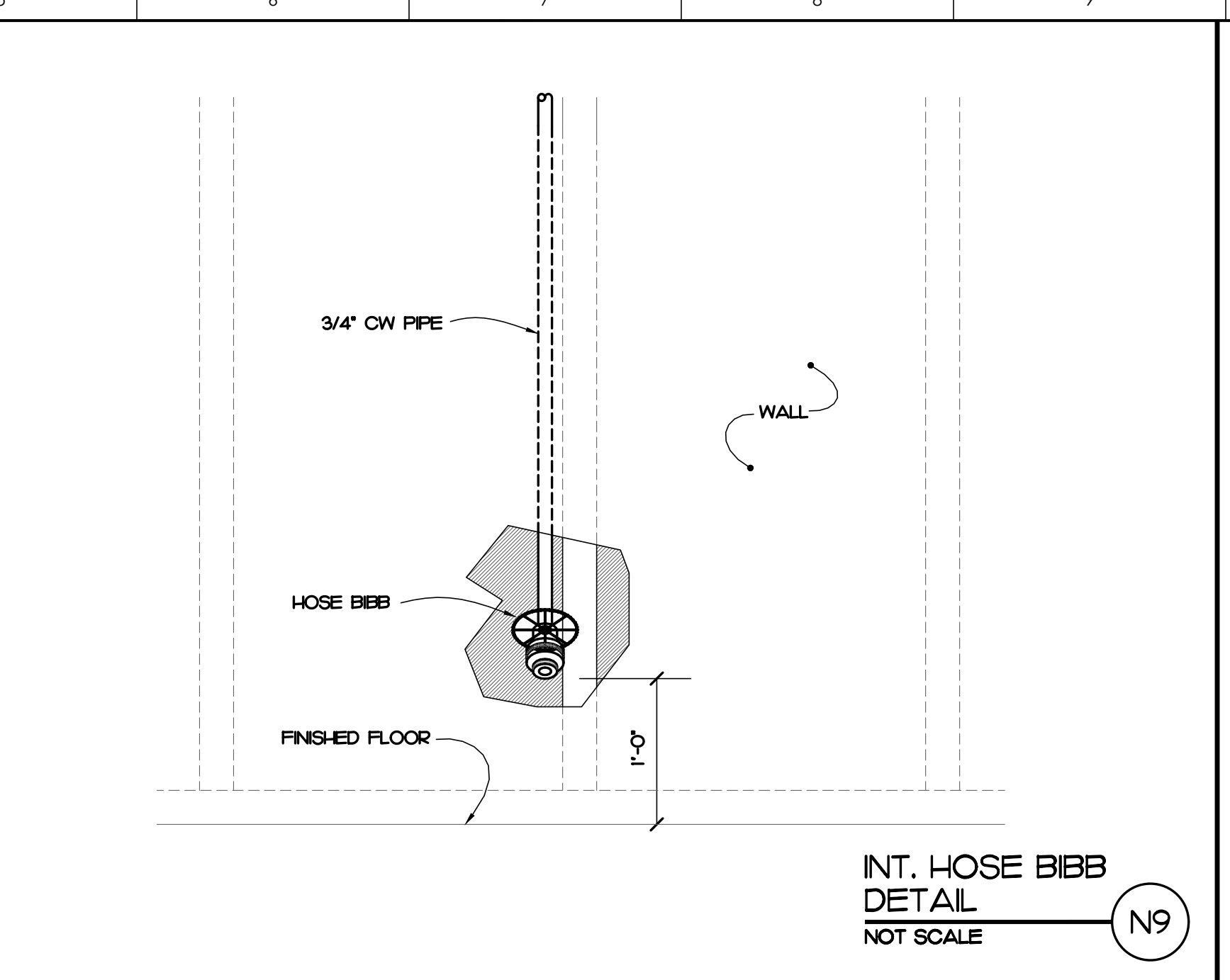
KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

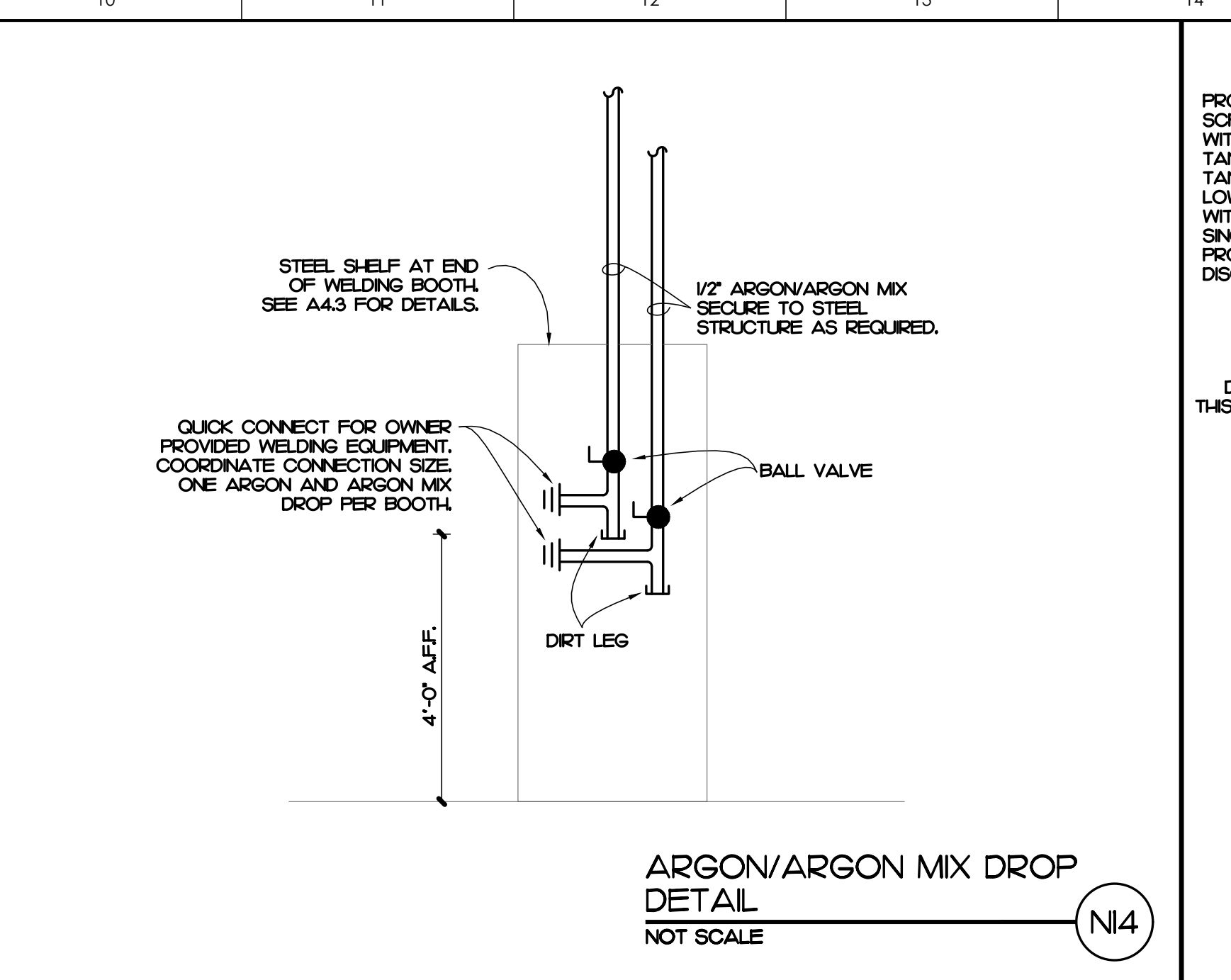
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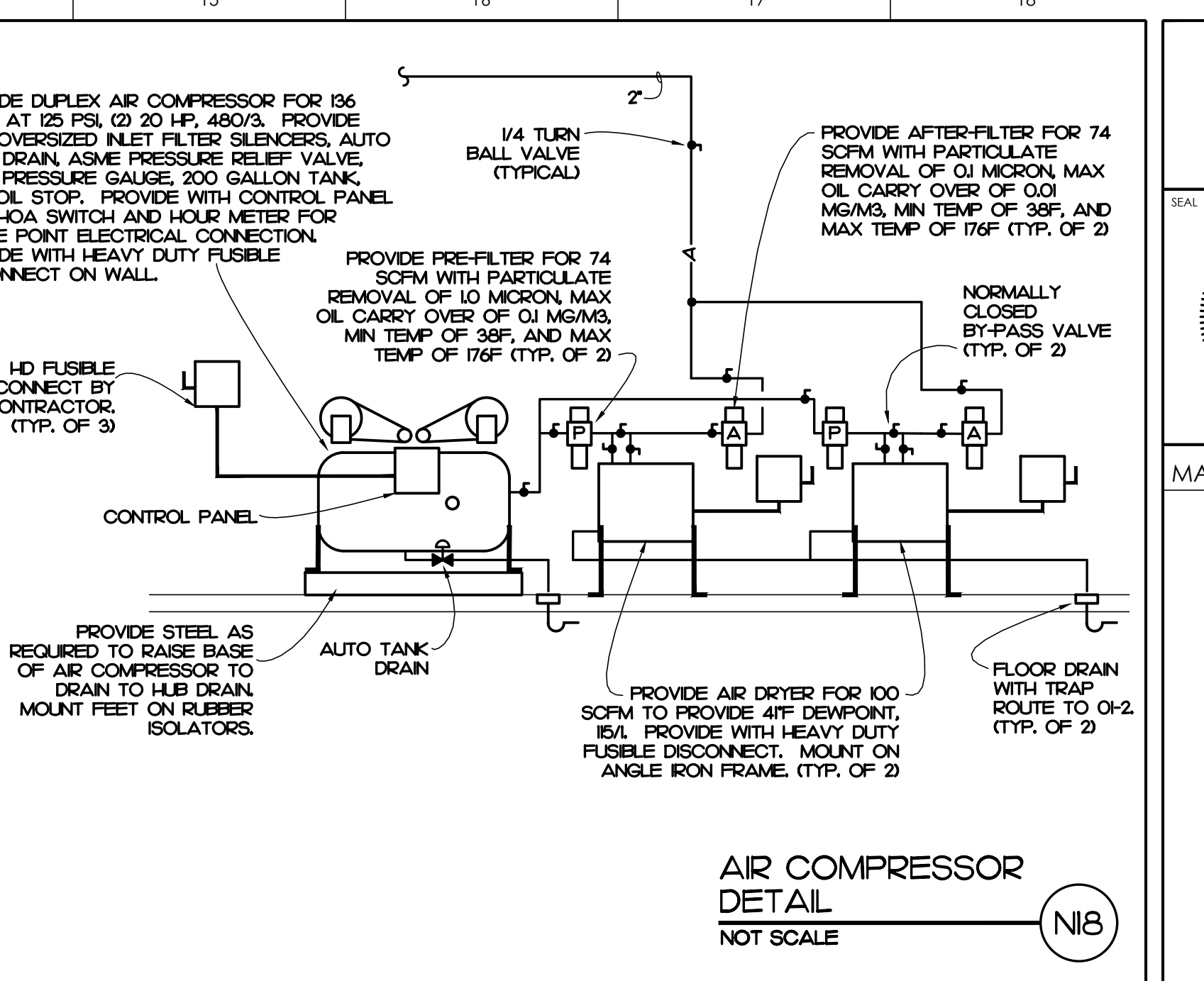
URINAL DETAIL
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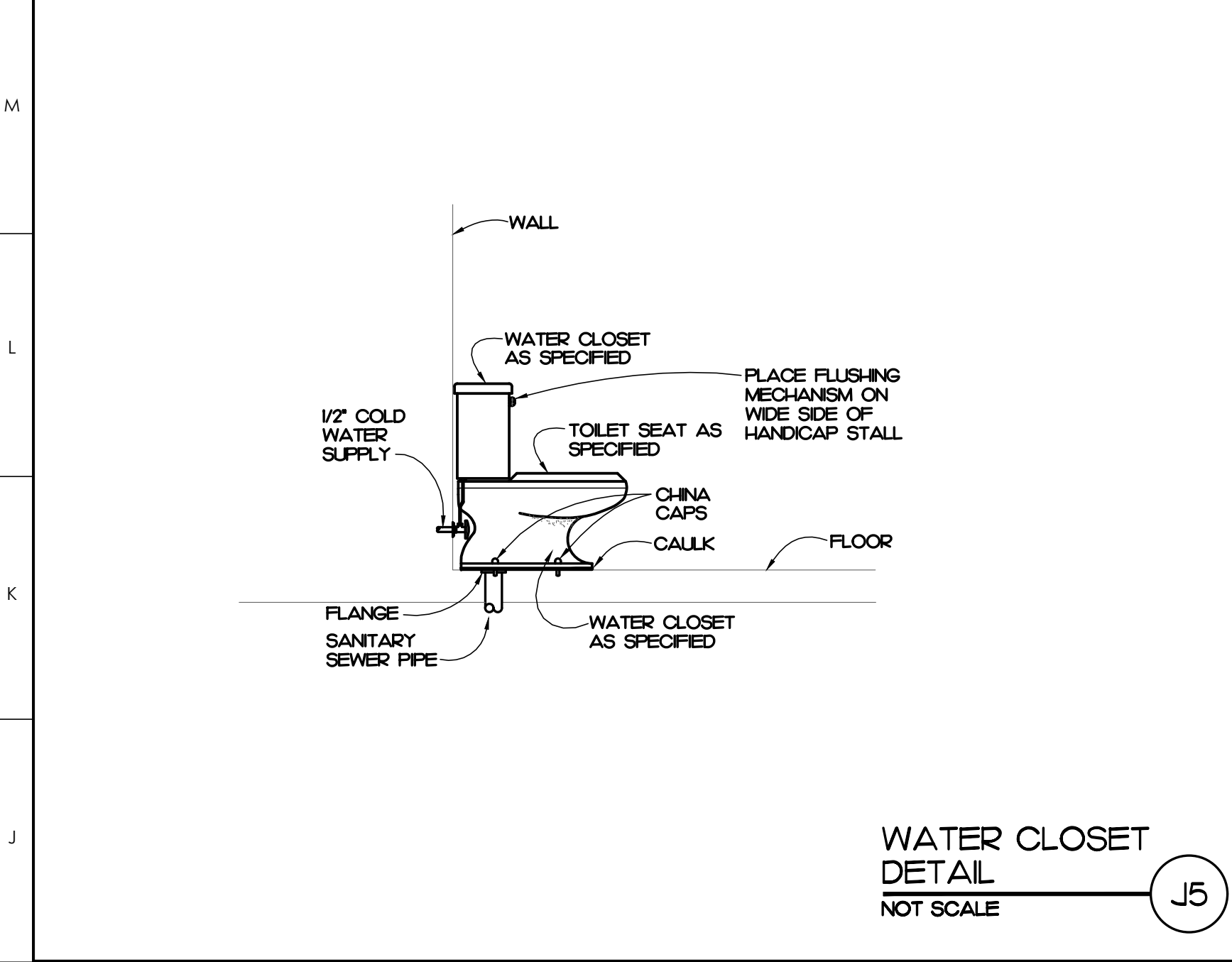
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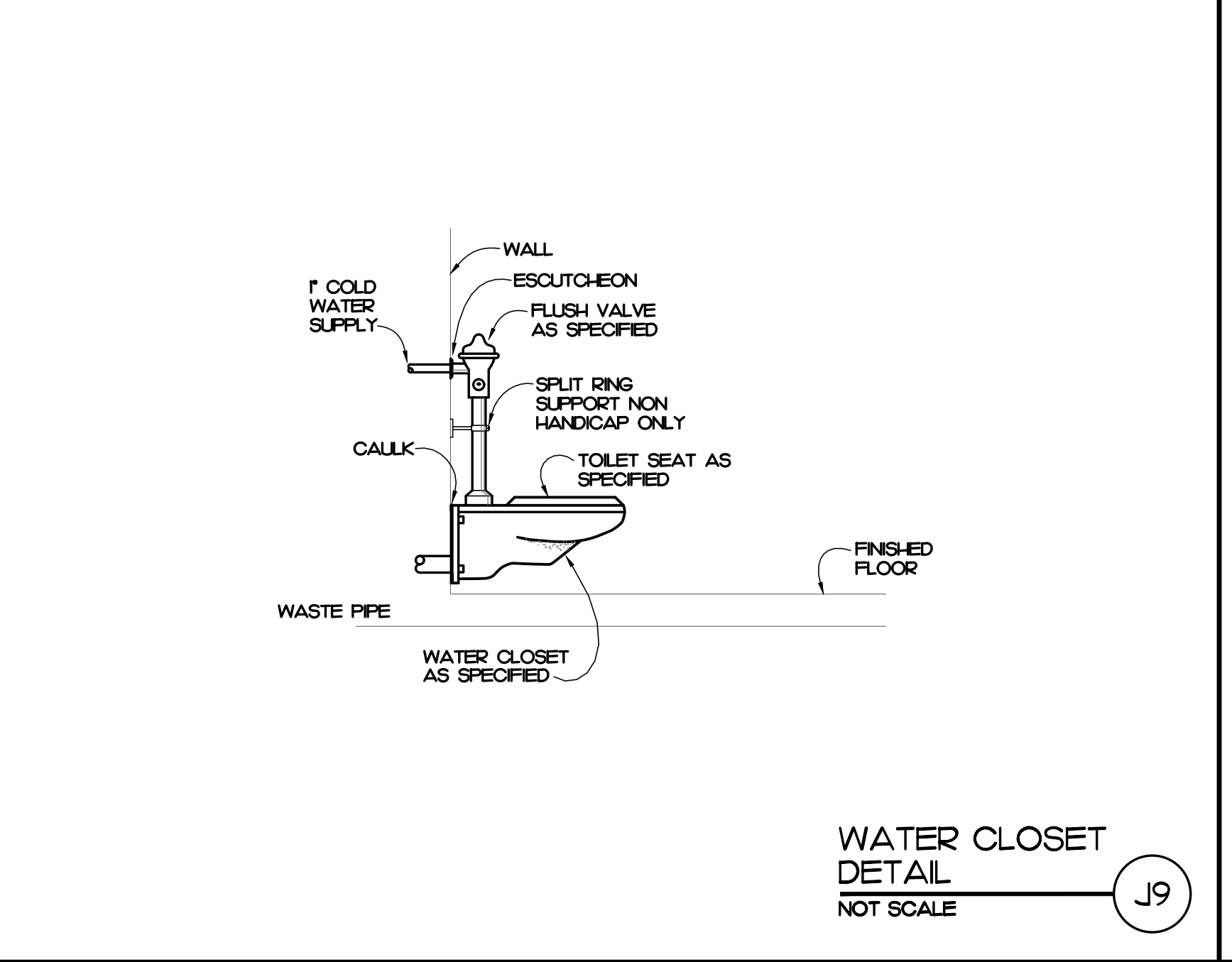
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 N14



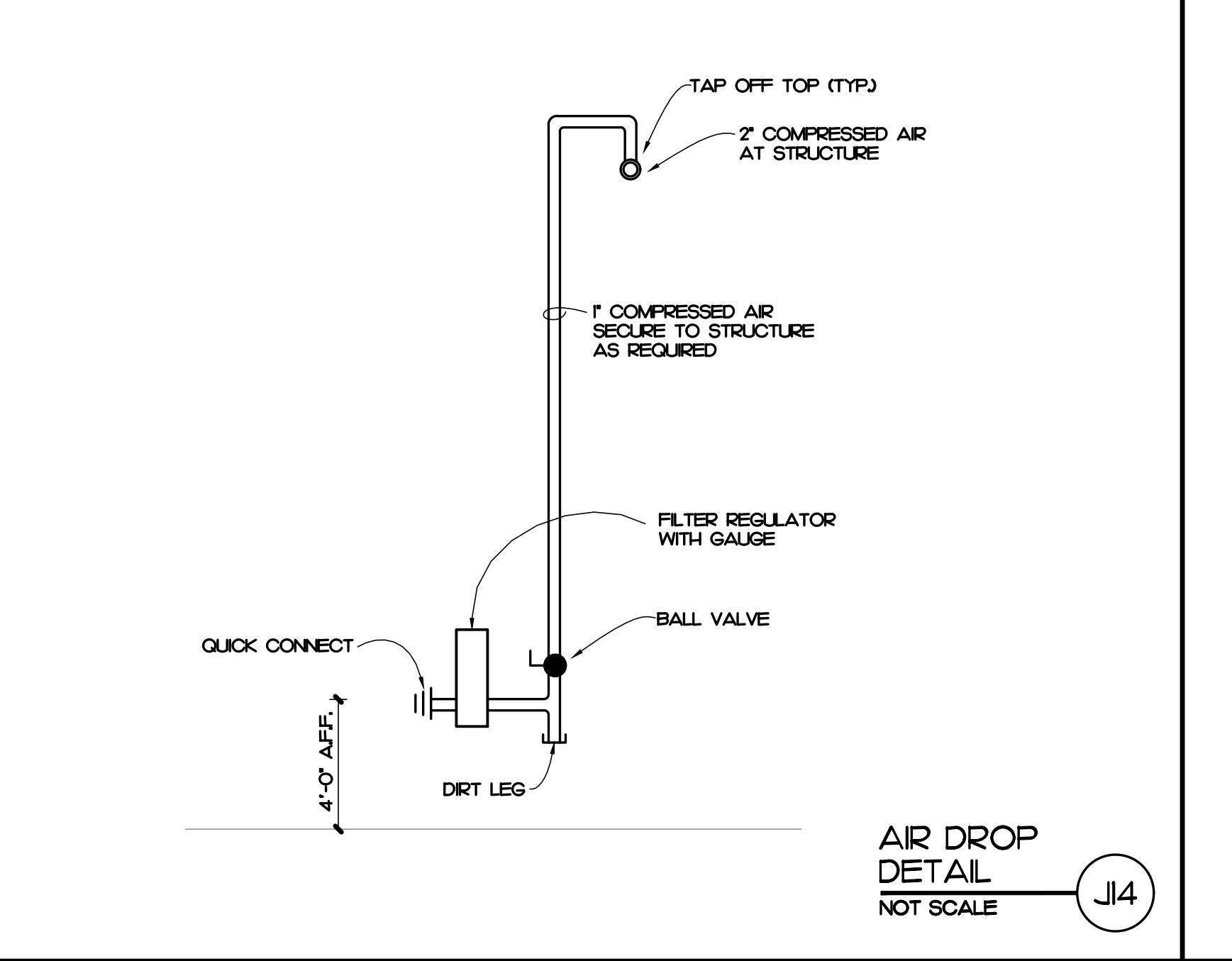
AIR COMPRESSOR DETAIL
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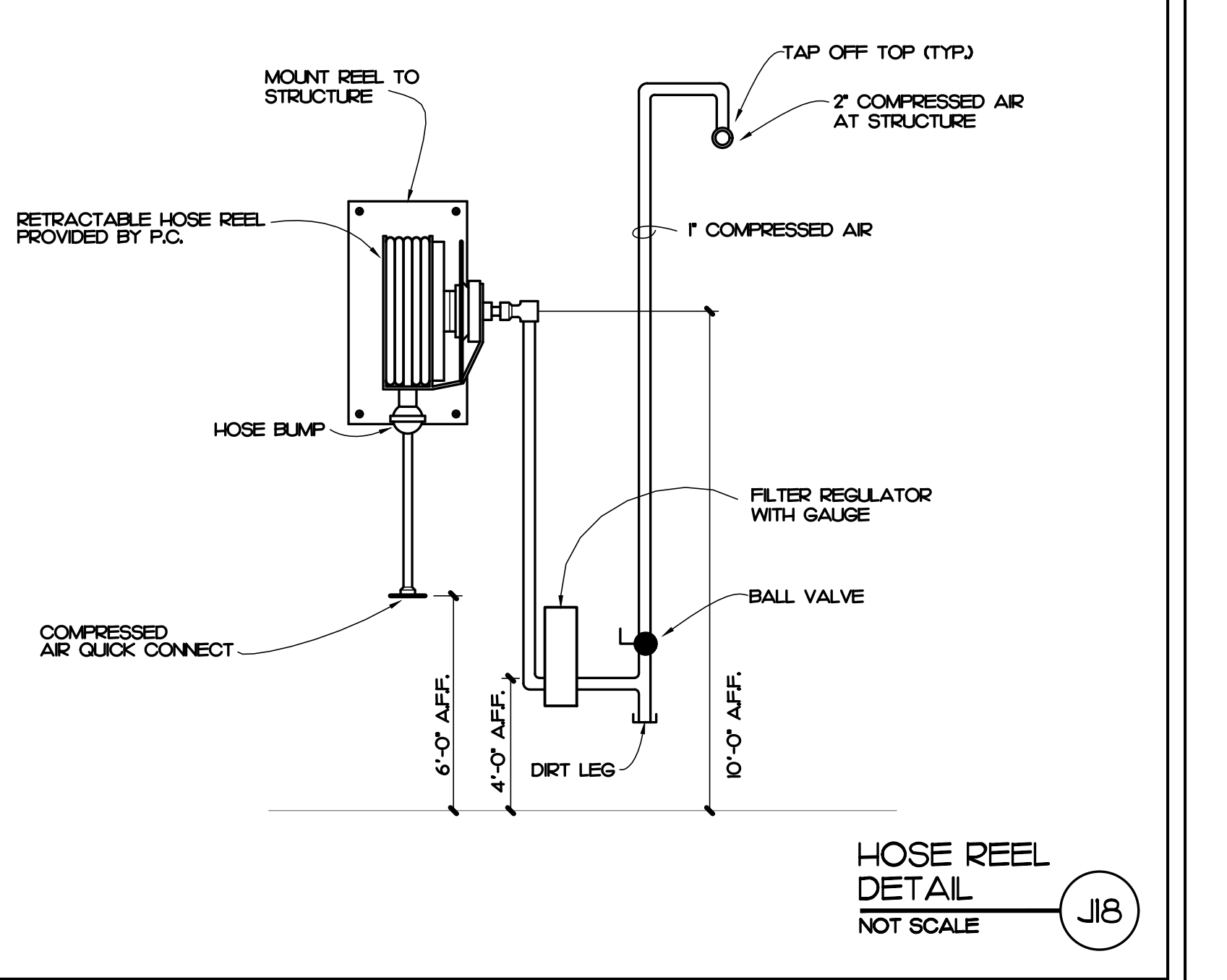
WATER CLOSET DETAIL
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 J5



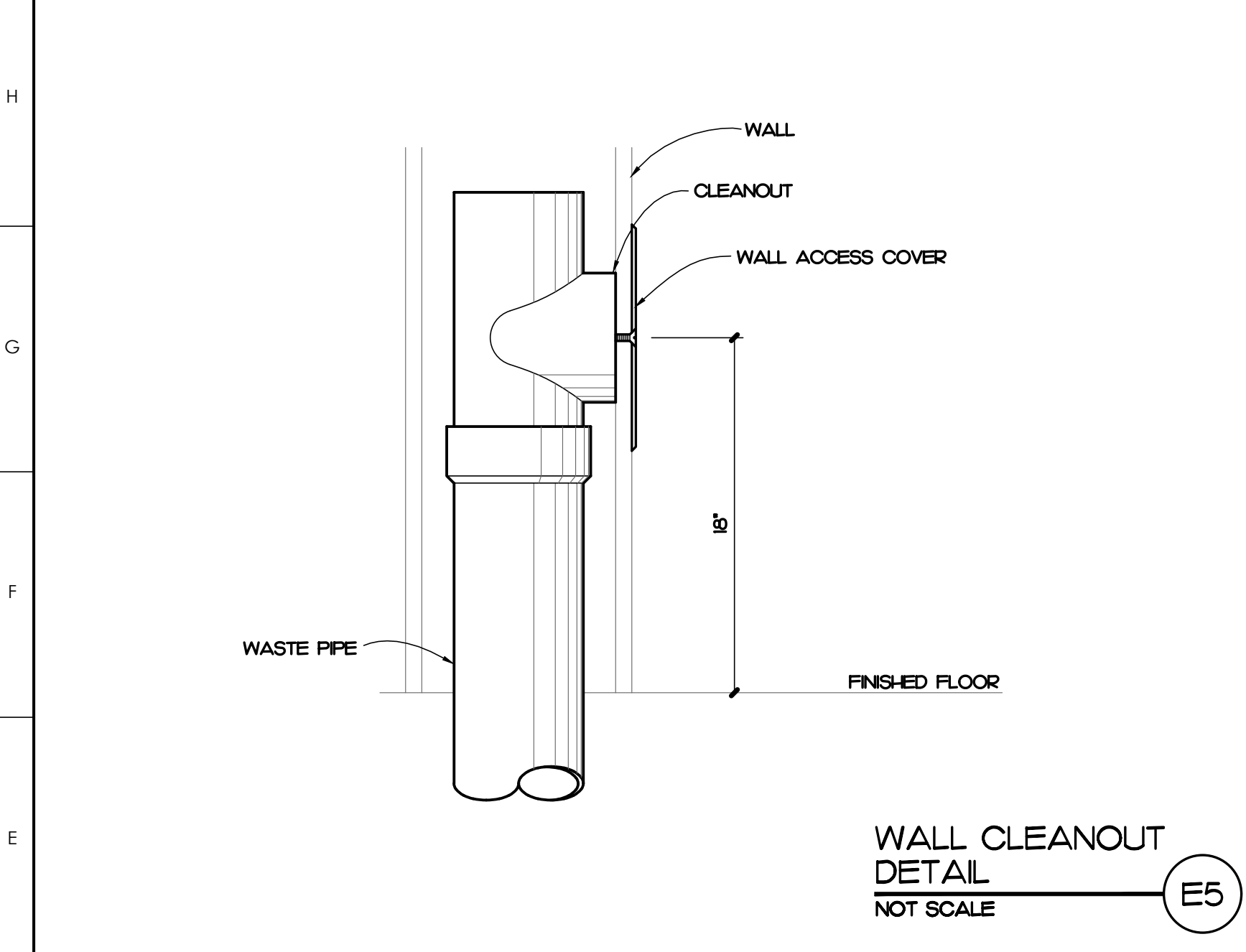
WATER CLOSET DETAIL
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 J9



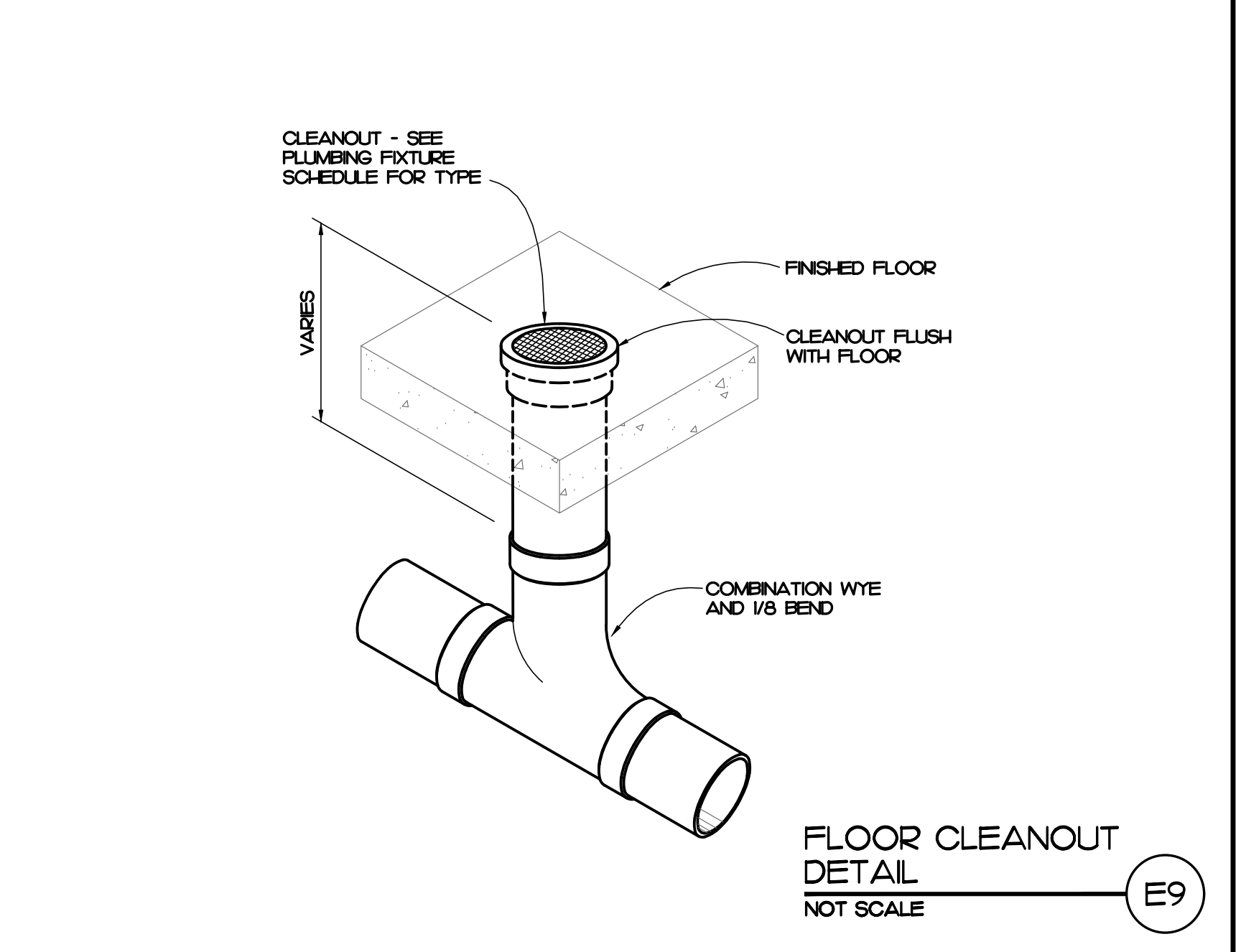
AIR DROP DETAIL
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 J14



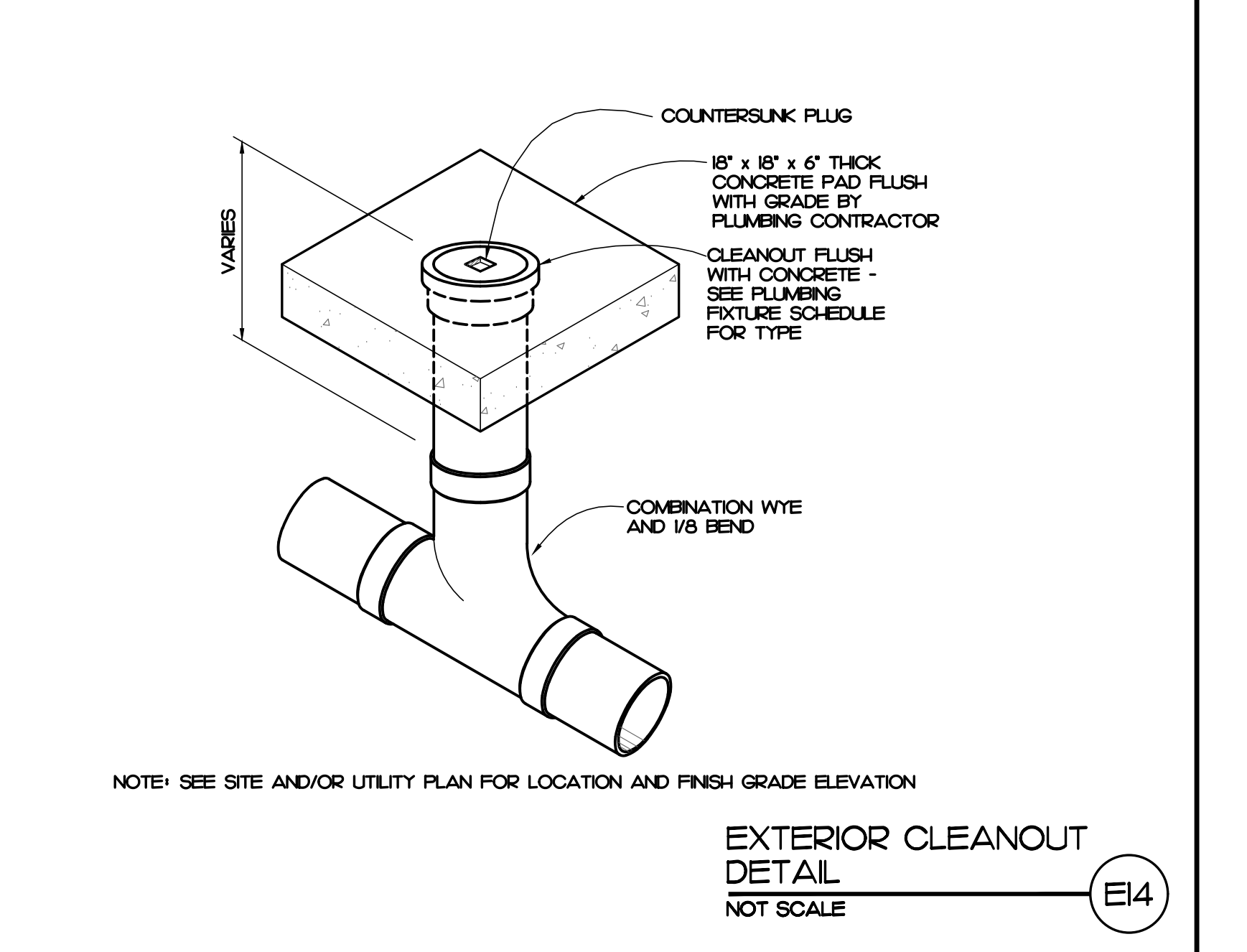
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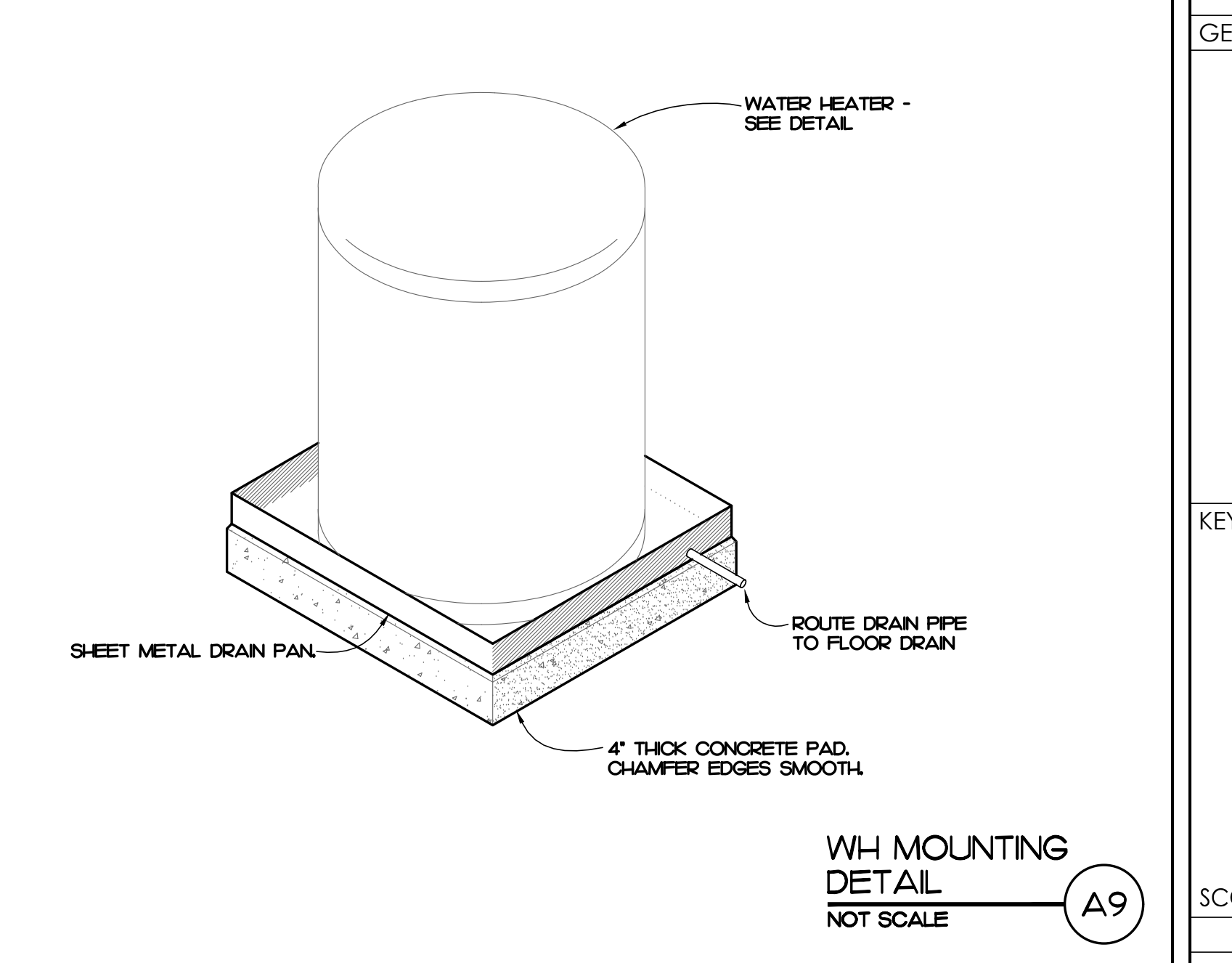
WALL CLEANOUT DETAIL
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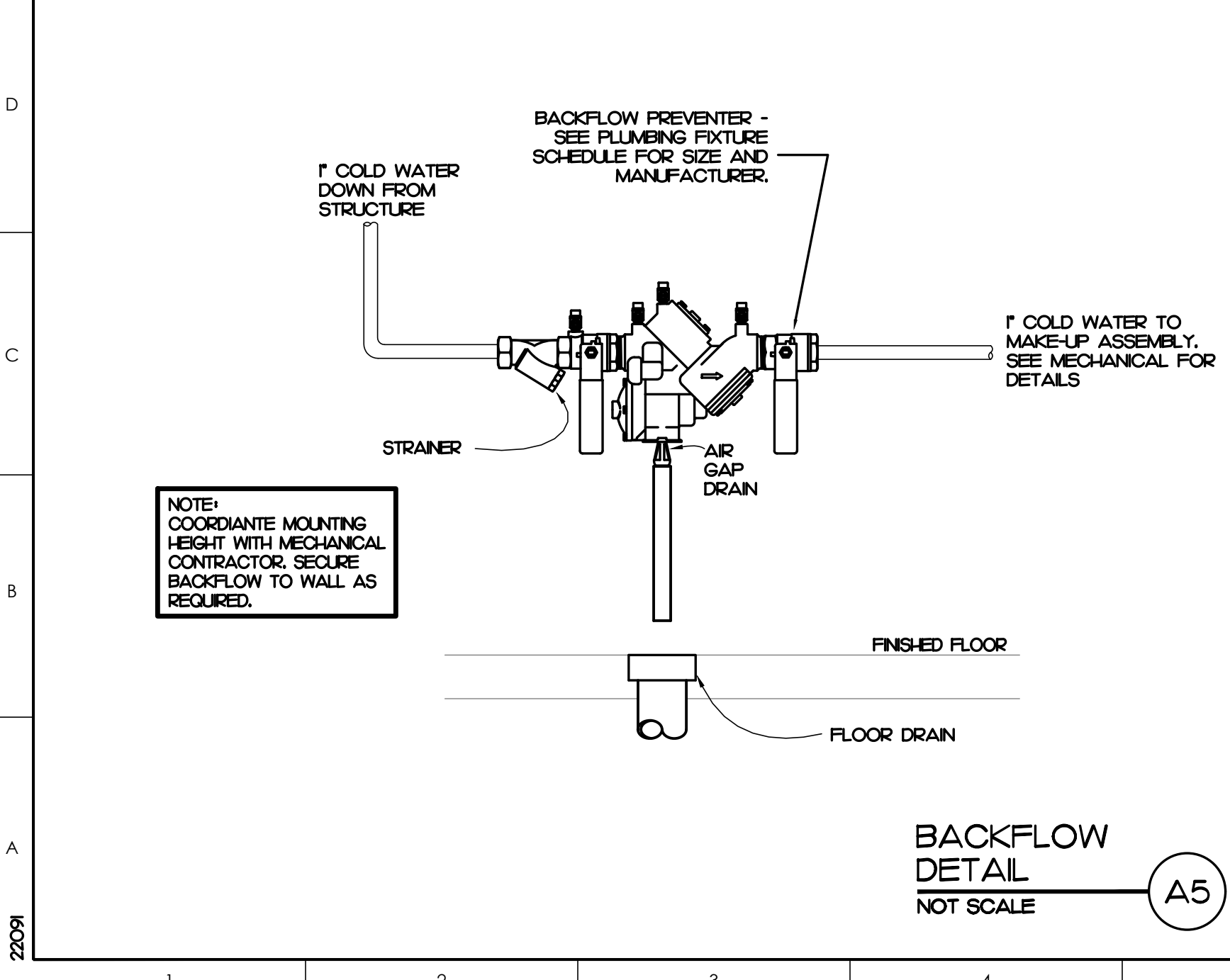
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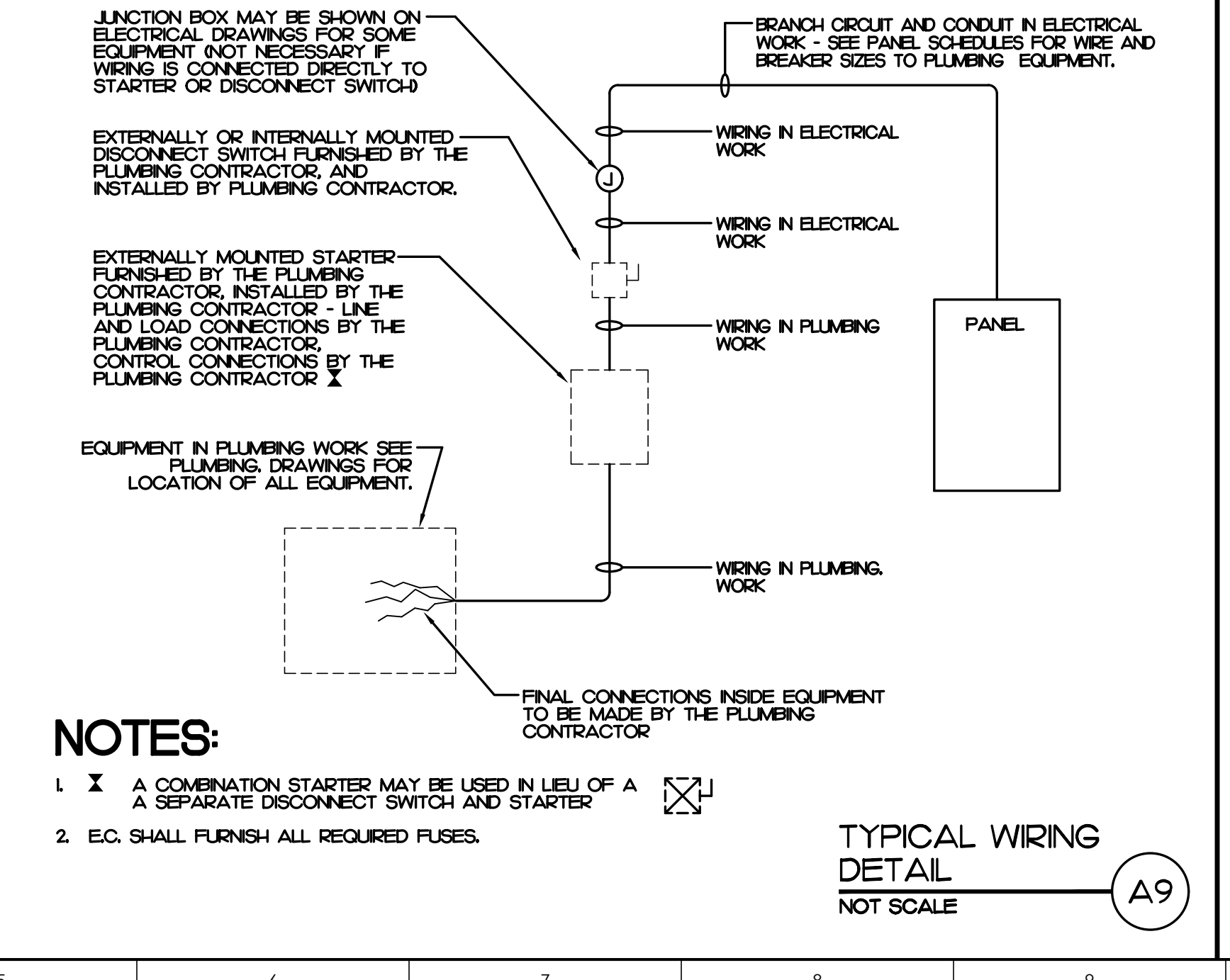
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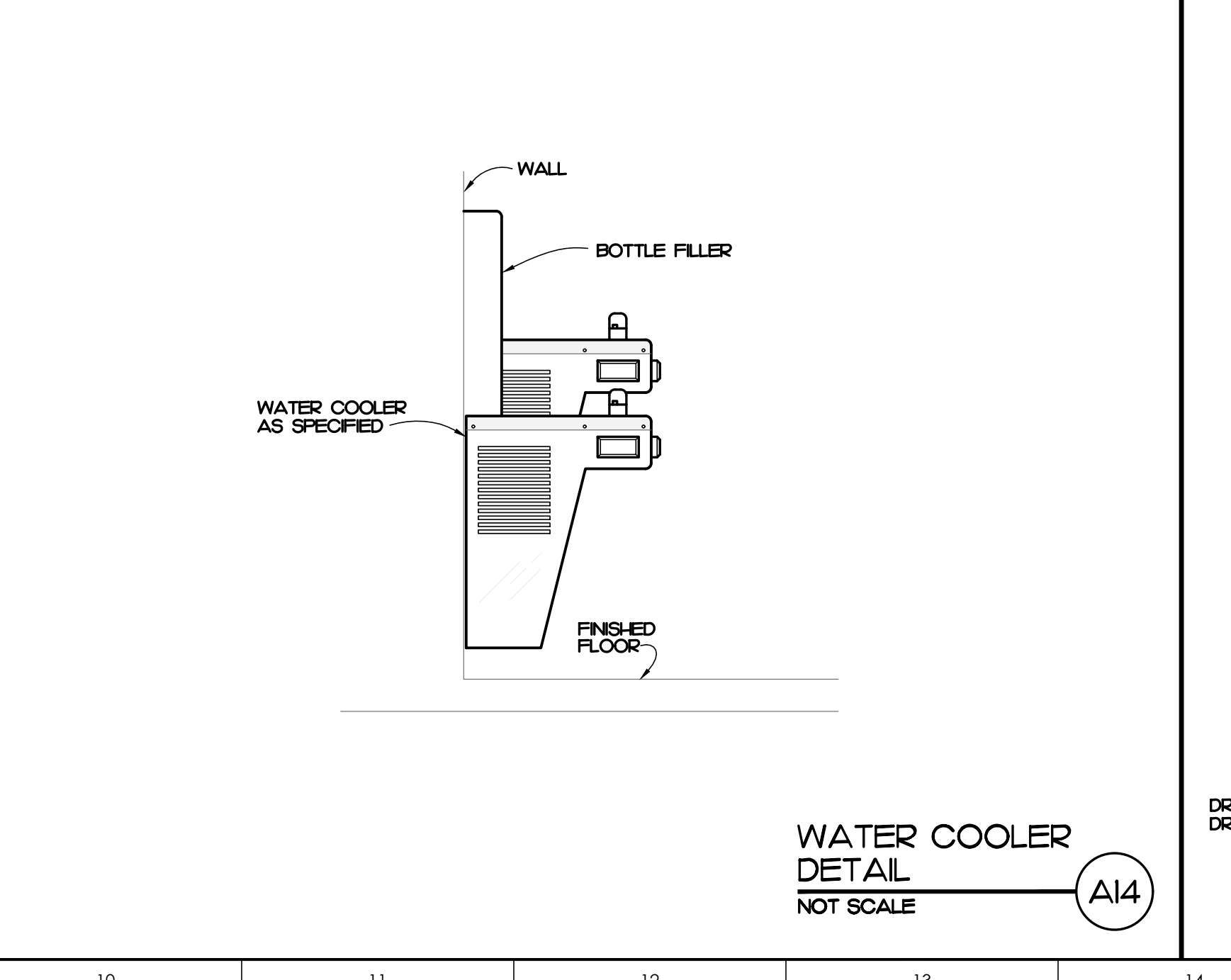
WH MOUNTING DETAIL
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 A9



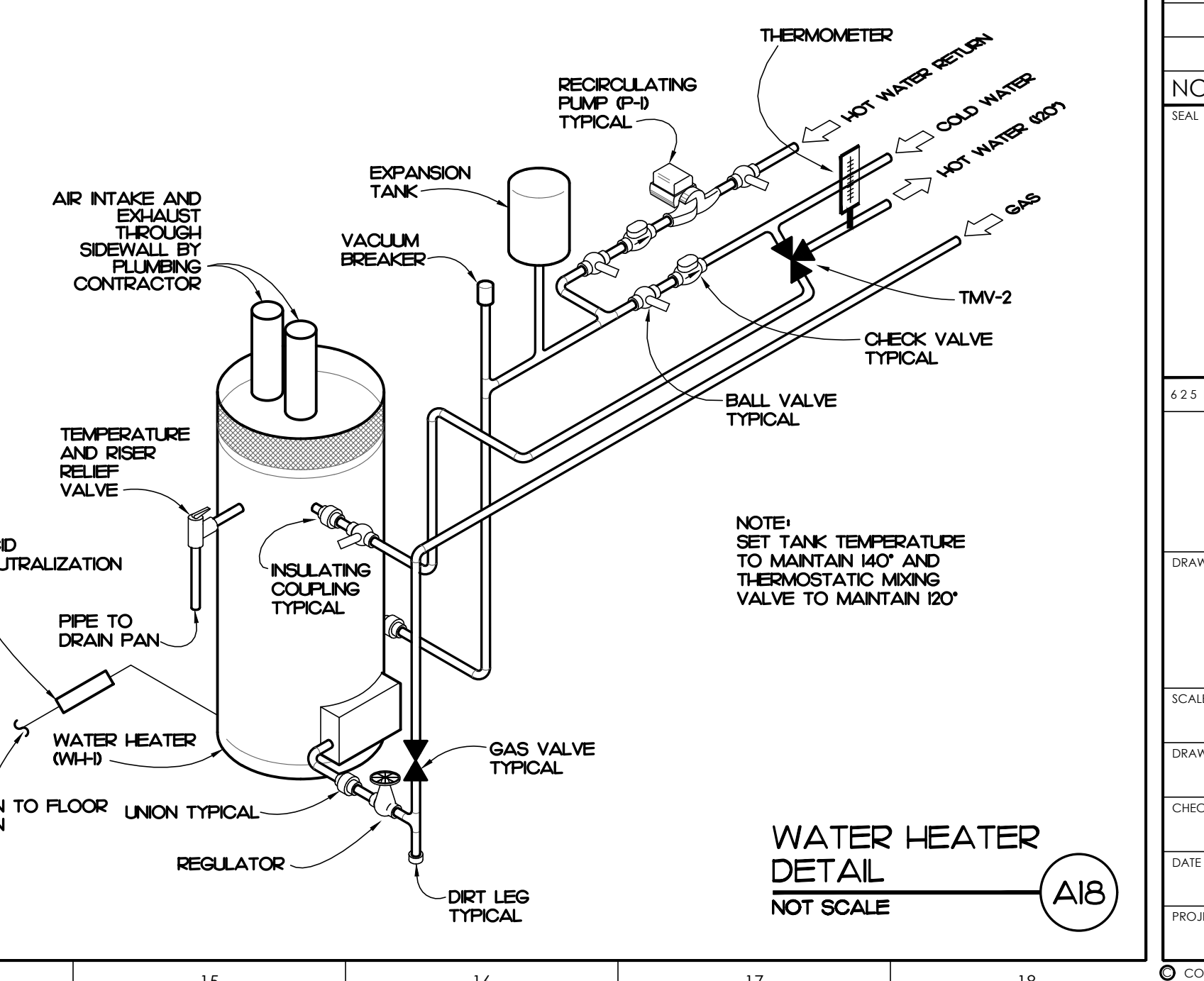
BACKFLOW DETAIL
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 A5



TYPICAL WIRING DETAIL
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 A9

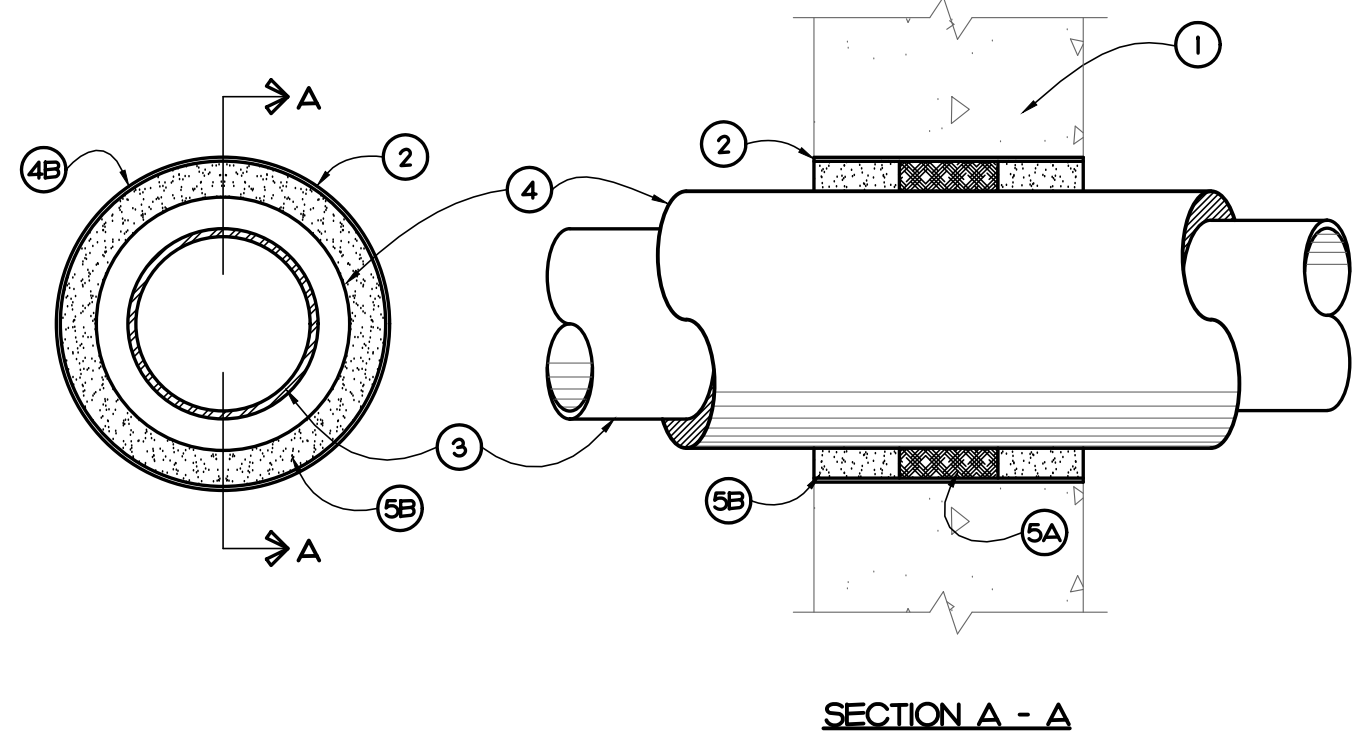


WATER COOLER DETAIL
 NOT SCALE
 A14



WATER HEATER DETAIL
 NOT SCALE
 A18

SYSTEM NO. WJ5028
 F RATING - 4 HOUR
 T RATING - 1 1/2 HR

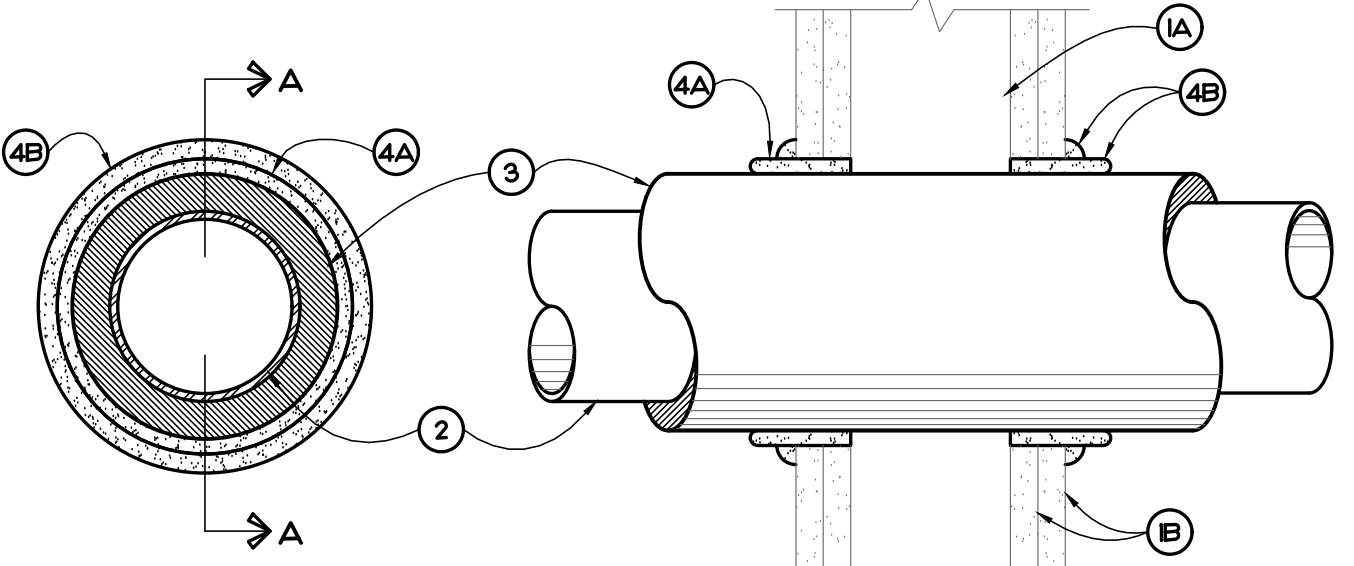


SECTION A - A

- 1 WALL ASSEMBLY MIN 7 5/8 IN. THICK WALL ASSEMBLY CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS MIN 4 HR FIRE RATED WALL. MAX DIAM OF OPENING IS 18 1/2 IN. SEE CONCRETE BLOCKS (CA27) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- 2 STEEL SLEEVE CIRCULAR SLEEVE FABRICATED FROM MIN 0.035 IN. THICK NO. 20 GAUGED GALV. STEEL SHEET, AND HAVING A MIN 2 IN. LAP ALONG THE LONGITUDINAL SEAM LENGTH OF SLEEVE TO BE EQUAL TO THICKNESS OF WALL. SLEEVE TO BE INSTALLED BY COILING THE SHEET METAL TO A DIAM. SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENING AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE CONCRETE BLOCKS.
- 3 THROUGH PENETRANTS ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED CONCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDERS OF THE WALL ASSEMBLY, THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - A. STEEL PIPE NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE
 - B. CONDUIT NOM 4 IN. DIAM (OR SMALLER) STEEL, ELECTRIC METALLIC TUBING OR 6 IN. DIAM. STEEL CONDUIT
 - C. COPPER TUBING NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
 - D. COPPER PIPE NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE
- 4 PIPE COVERING - NOM 1/2 IN. THICK HOLLOW CIRCULAR HEAVY DENSITY (35 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE ANNULAR SPACE BETWEEN THE INSULATED PIPE AND THE STEEL SLEEVE SHALL BE MIN 1/4 IN. TO MAX 1/2 IN.

BEARING THE UL CLASSIFICATION MARKING
 PENETRATION DETAIL
 NOT SCALE
 (J5)

SYSTEM NO. WJ5001
 F RATING - 1 AND 2 HOUR
 T RATING - 1 1/2 AND 1/2 HR
 L RATING AT AMBIENT - 2 CFMSQ. FT.
 L RATING AT 400 F - LESS THAN 1 CFMSQ. FT.
 L RATING AT 400 F - LESS THAN 1 CFMSQ. FT.

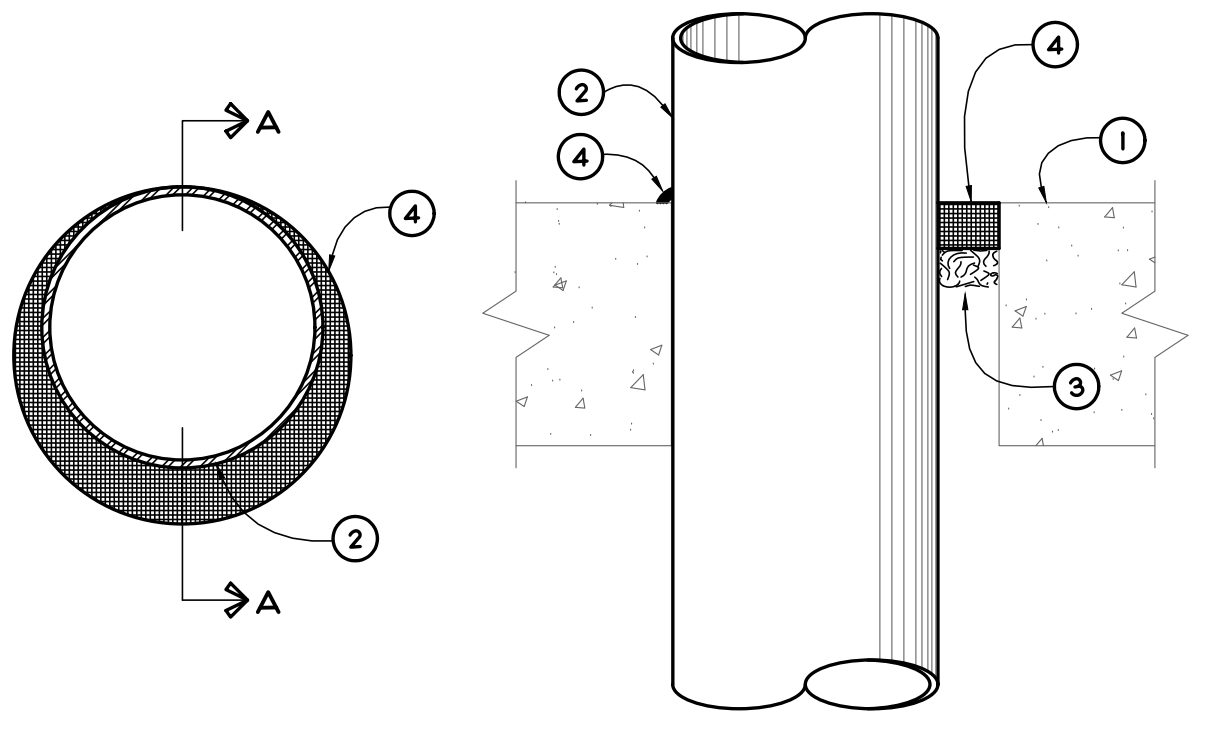


SECTION A - A

- 1 WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL USCO OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END STUDS. STEEL STUDS TO BE MIN 3 5/8 IN. WIDE BY 1 3/8 IN. DEEP CHANNELS SPACED MAX 24 IN.
 - B. WALLBOARD, GYPSUM - NOM 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL USCO OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 14 1/2 IN. FOR WOOD STUD WALLS AND 16 IN. FOR STEEL STUD WALLS.
- 2 THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDERS OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
 - A. STEEL PIPE - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE
 - B. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
 - C. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE
- 3 PIPE COVERING - NOM 1 OR 2 IN. THICK HOLLOW CIRCULAR HEAVY DENSITY (MIN 35 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. WHEN NOM 1 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/4 IN. TO MAX 3/8 IN. WHEN NOM 2 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/2 IN. TO MAX 3/4 IN.
- 4 FIRESTOP SYSTEM - INSTALLED SYMMETRICALLY ON BOTH SIDERS OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
 - A. FILL VOID OR CAVITY MATERIAL - WRAP - NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL, FACED ON ONE SIDE WITH ALUMINUM FOIL SUPPLIED IN 2 IN. WIDE STRIPS. NOM 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND PIPE COVERING (POLY. SIDE OUT) WITH SEAM BUTTER. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLD INTO ANNULAR SPACE APPROX 1/4 IN. SUCH THAT APPROX 3/4 IN. OF THE WRAP STRIP WITH PROTRUSION FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM 1 IN. THICK PIPE COVERING IS USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM 2 IN. THICK PIPE COVERING IS USED. MINNESOTA MINING & MFG. CO. - F99.
 - B. FILL VOID OR CAVITY MATERIAL - CALK - MIN 1/4 IN. DIAM. CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYER APPROX 3/4 IN. FROM THE WALL SURFACE. MINNESOTA MINING & MFG. CO. - F299.

BEARING THE UL CLASSIFICATION MARKING
 PENETRATION DETAIL
 NOT SCALE
 (E9)

SYSTEM NO. CAJ044
 F RATING - 2, 3 AND 4 HOUR (SEE ITEMS 2A AND 4)
 T RATING - 0 HOUR
 L RATING AT AMBIENT - 2 CFMSQ. FT.
 L RATING AT 400 F - LESS THAN 1 CFMSQ. FT.
 W RATING - CLASS 1 (SEE ITEM 4)



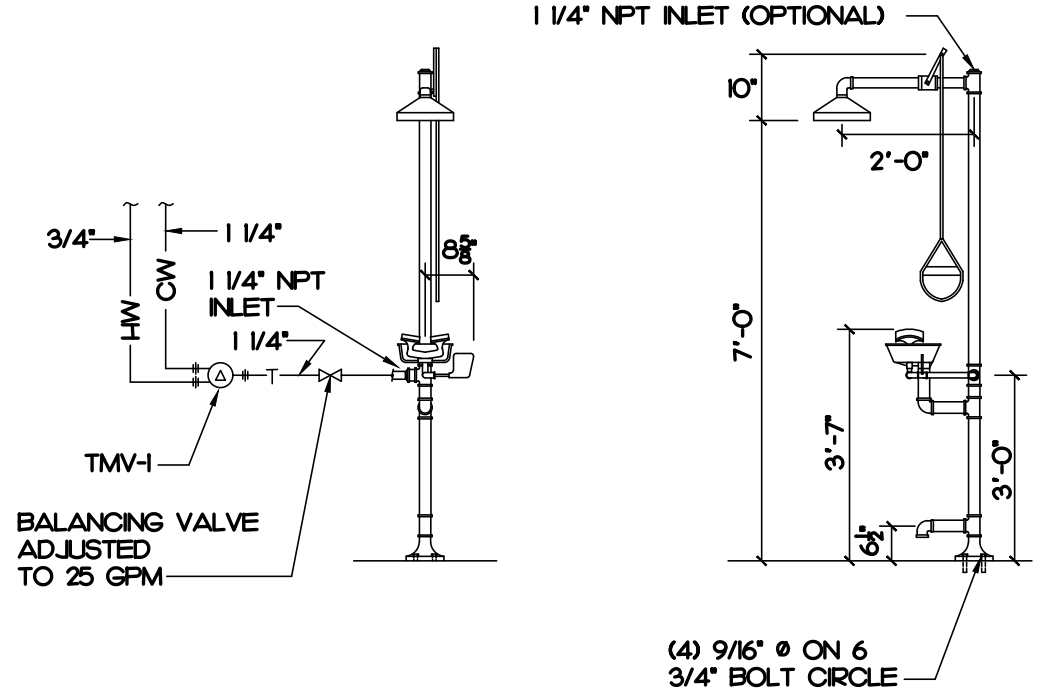
SECTION A - A

- 1 FLOOR OR WALL ASSEMBLY - LIGHTWEIGHT OR NORMAL WEIGHT (100-80 PCF) CONCRETE EXCEPT AS NOTED IN TABLE UNDER ITEM 4. MINIMUM THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4 1/2". FLOOR MAY ALSO BE CONSTRUCTED OF ANY MINIMUM 6" THICK UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS WHEN FLOOR IS CONSTRUCTED OF HOLLOW CORE PRECAST CONCRETE UNITS. PACKING MATERIAL (ITEM 3) AND CALK/FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMMETRICALLY ON BOTH SIDERS OF FLOOR OR WALL SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAXIMUM DIAMETER OF OPENING IS IN SOLID LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR IS 32" MAXIMUM DIAMETER OF OPENING IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS IS 7". SEE CONCRETE BLOCKS (CA27) AND PRECAST CONCRETE UNITS (CVT1) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- 2 THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MAXIMUM ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS, DEPENDENT ON THE PARAMETERS SHOWN IN ITEM 4. MINIMUM ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0.5 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDERS OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - A. STEEL PIPE - NOMINAL 30" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE
 - B. IRON PIPE - NOMINAL 30" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE
 - C. CONDUIT - NOMINAL 6" DIAMETER (OR SMALLER) RIGID STEEL CONDUIT
 - D. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
 - E. COPPER - TUBING NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE
 - F. COPPER PIPE - NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE
- 3 PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOMINAL 1" THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CALK/FILL MATERIAL (ITEM 4).
- 4 FILL VOID OR CAVITY MATERIAL - CALK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR, IN WALL ASSEMBLY, REQUIRED CALK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDERS OF WALL. FLUSH WITH WALL SURFACE AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE. A MINIMUM 1/4" DIAMETER BEAD OF CALK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL. THE HOURLY F RATINGS AND THE MINIMUM REQUIRED CALK THICKNESSES ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN IN THE FOLLOWING TABLE:

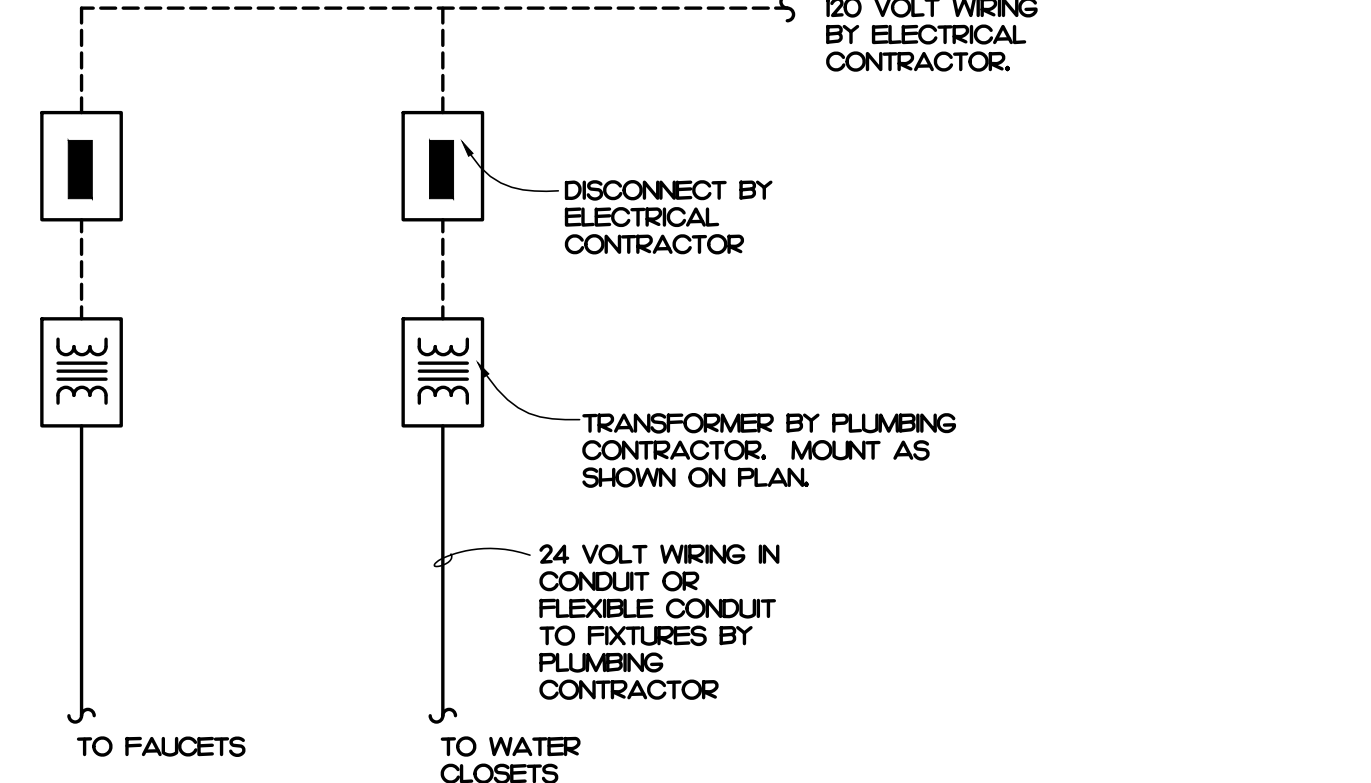
MINIMUM FLOOR OR WALL ASSEMBLY THICKNESS - INCHES	NOMINAL PIPE OR CONDUIT DIAMETER - INCHES	MINIMUM CALK THICKNESS - INCHES	F RATING
2 1/2	1/2 - 1/2	3/8	2
2 1/2	1/2 - 1/2	3/8	2
4 1/2	1/2 - 1/2	3/8	2
4 1/2	1/2 - 1/2	1/4	3
4 1/2	1/2 - 20	1	3
4 1/2	1/2 - 20	2	3
4 1/2	1/2 - 1/2	3/4	3
4 1/2	1/2 - 1/2	1	3
4 1/2	22 - 30	2	3
4 1/2	1/2 - 1/2	1 1/8	4

 - (a) MINIMUM 2" THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE.
 - (b) MINIMUM 1" THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDERS OF FLOOR OR WALL ASSEMBLY. MINIMUM 1" THICKNESS OF CALK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.

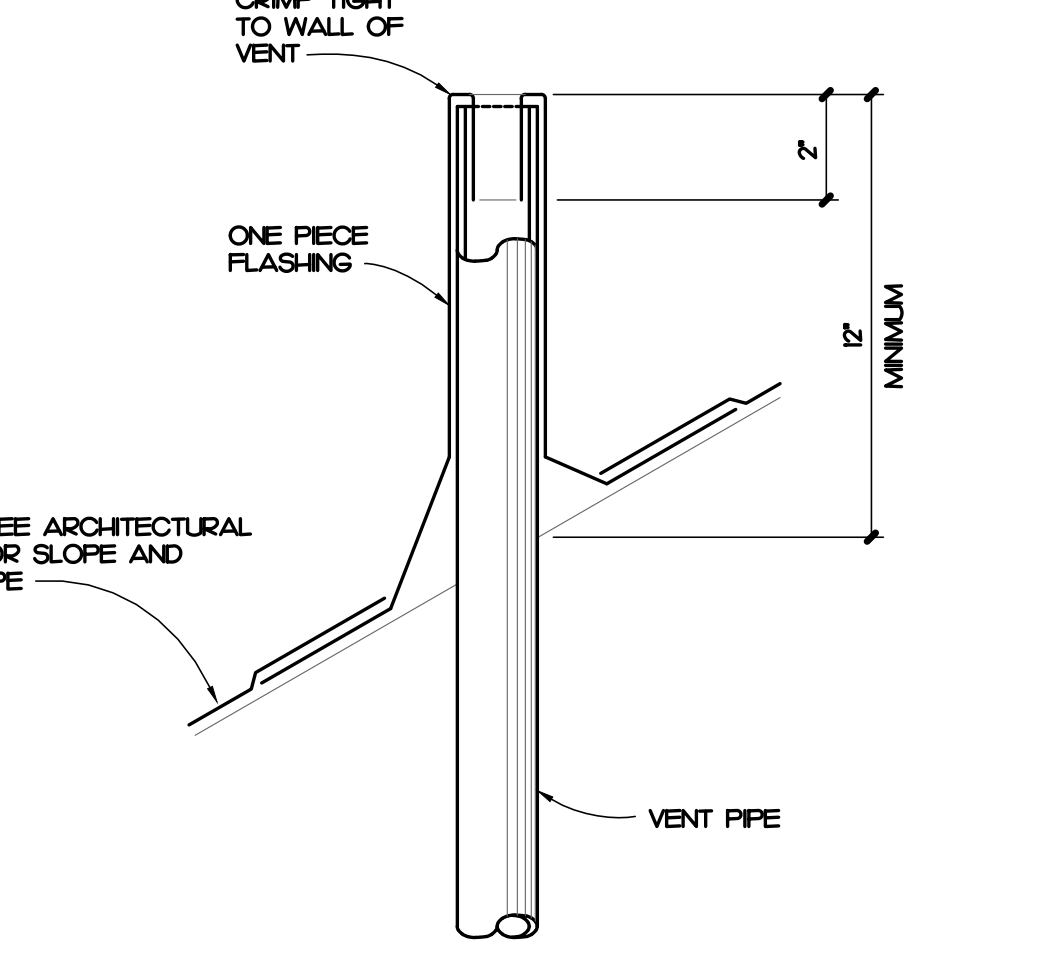
BEARING THE UL CLASSIFICATION MARKING
 PENETRATION DETAIL
 NOT SCALE
 (E14)



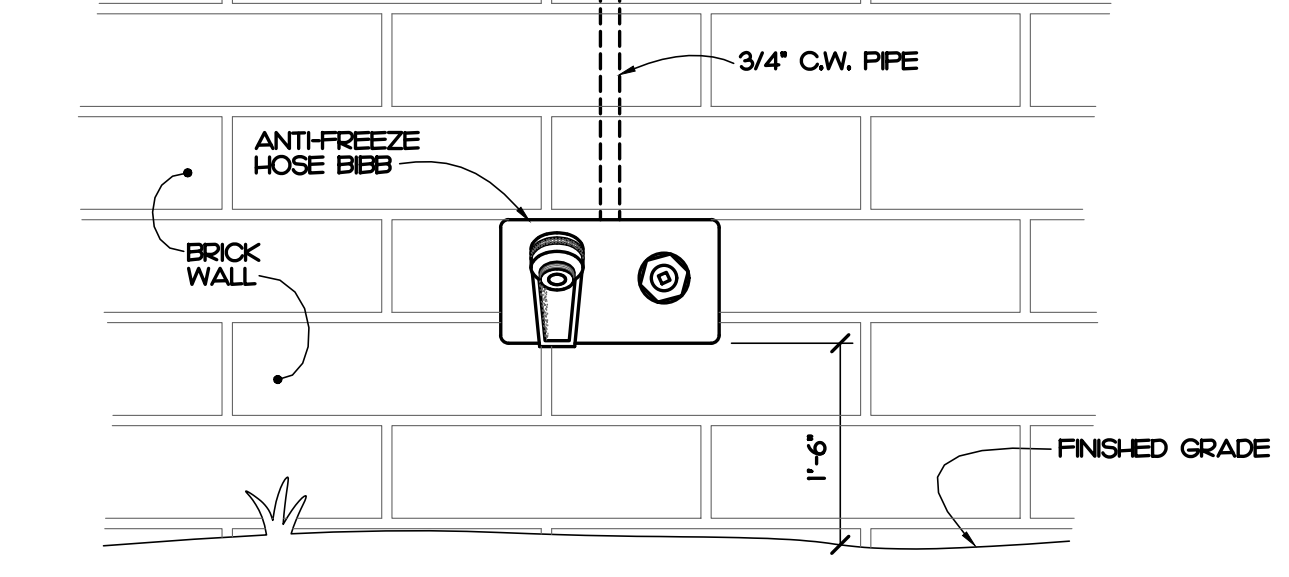
EYEWASH/SHOWER DETAIL
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 (E5)



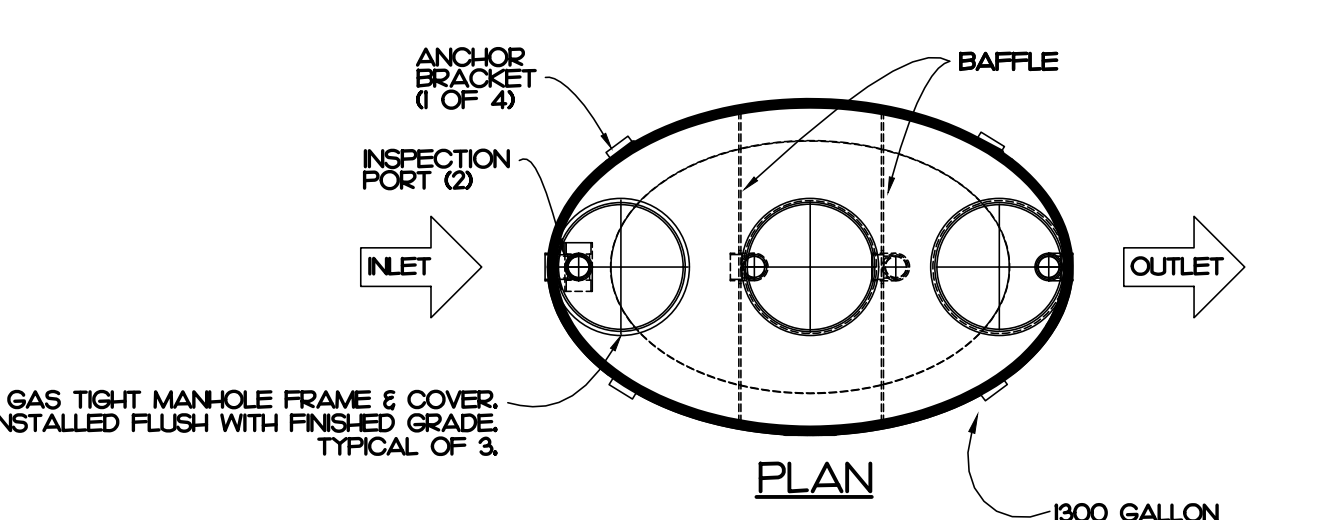
LOW VOLTAGE WIRING DETAIL
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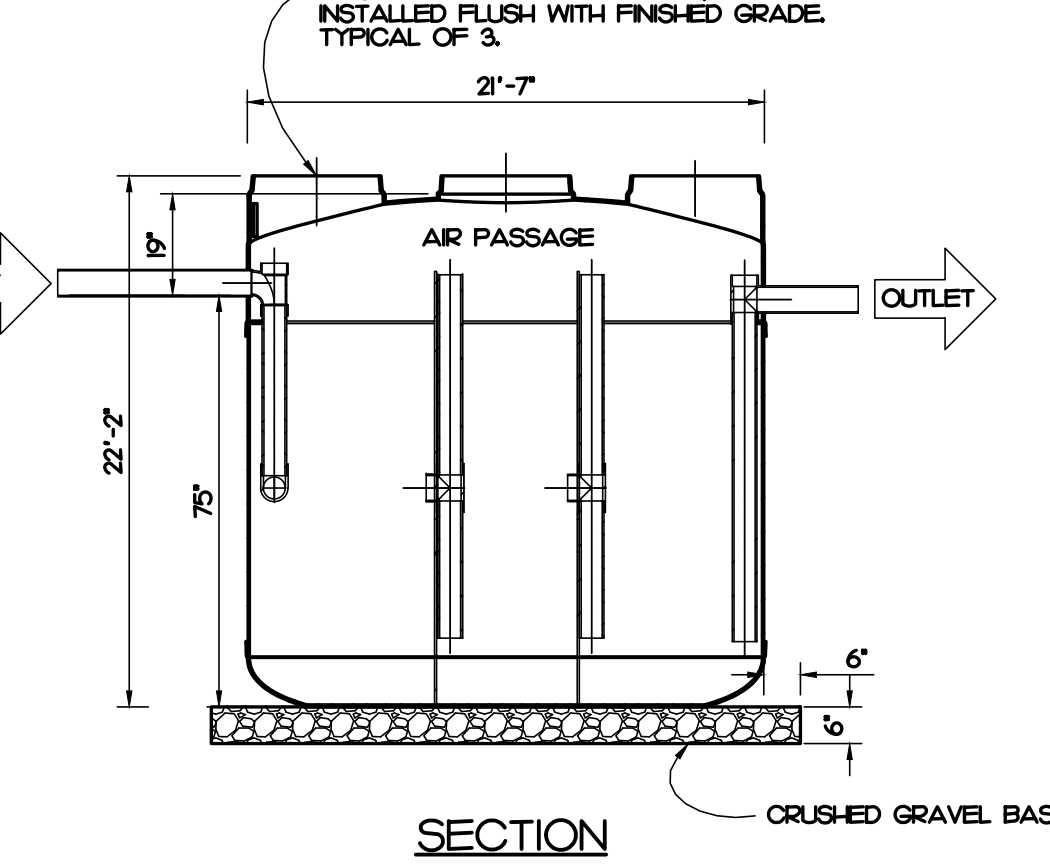
ROOF CAP DETAIL
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 (A5)



EXT. HOSE BIBB DETAIL
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 (A9)

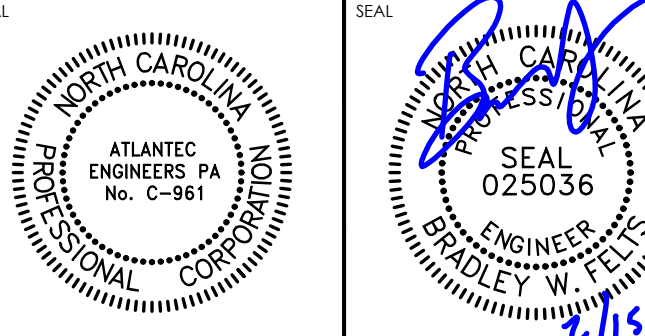


SAND/OIL INTERCEPTOR DETAIL
 NOT SCALE
 (A18)



SAND/OIL INTERCEPTOR DETAIL
 NOT SCALE
 (A18)

ATLANTEC ENGINEERS, PA 2207
 323 BLUE RIDGE ROAD, SUITE 13
 RALEIGH, NC 27602
 PH 919 571-1111



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO. REVISION DATE

JKF ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048

PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING

WINTERVILLE, NC

PLUMBING DETAILS

SCALE AS NOTED DRAWING NO.

DRAWN BY NGB

CHECKED BY BWF

DATE 2-15-2024

PROJECT NO. 2022-07

P4.2

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PLUMBING FIXTURE SCHEDULE										
SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS					PIPING CONNECTIONS			
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
	BP-1 BACKFLOW PREVENTER LEAD FREE, REDUCED PRESSURE ZONE WITH BALL VALVES AND STRAINER. MOUNT 24" ABOVE FINISHED FLOOR.	WATTS	LF900T-S	WILKINS	975X2-S	FIBCO	LF900	-	-	-
	CO-1 WALL CLEANOUT CAST IRON BODY, WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND, SMOOTH STAINLESS STEEL, SECURED WALL ACCESS COVER.	ZURN	Z-446	WATTS	CO-460-RD	JR SMITH	4530	-	-	SEE PLUMB DRAWINGS
	CO-2 FLOOR CLEANOUT ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND SECURE HEAVY DUTY TOP, ADJUSTABLE TO FINISHED FLOOR.	ZURN	Z-4400	WATTS	CO-200-RX	JR SMITH	485	-	-	SEE PLUMB DRAWINGS
	CO-3 EXTERIOR CLEANOUT CLEANOUT FERRULE WITH CAST IRON BODY, WITH GAS AND WATERTIGHT BRONZE PLUG, MOUNT IN CONCRETE.	ZURN	Z-449-BP	WATTS	CO-380-34B	JR SMITH	4283	-	-	SEE PLUMB DRAWINGS
	CO-4 CLEANOUT BRONZE CLEANOUT PLUG TO BE GAS AND WATERTIGHT.	ZURN	Z-470	WATTS	CO-590	JR SMITH	-	-	-	SEE PLUMB DRAWINGS
	EW-1 WATER COOLER PROVIDE WITH FRONT AND SIDE CONTROLS, SHUT-OFF VALVE, CARRIER, AND TRAP. PROVIDE STAINLESS STEEL FINISH. PROVIDE WITH BOTTLE FILLER.	OASIS	PS6FSL	ELKAY	LZSTLBS	HALSEY TAYLOR	HTH-HAC00LPH-VF	1/2"	-	2"
	EW-1 EMERGENCY EYEWASH COMBINATION SHOWER AND EYEWASH WITH SHOWERHEAD, RECEPTOR, TWIN ANTI-SURGE SOFT-FLO EYEWASH HEADS, FULL ROD ACTIVATED SHOWER, AND PUSH FLAP ACTIVATED EYEWASH. PROVIDE WITH TEPID WATER THROUGH A MIXING VALVE AND SHOWER TEST BAG.	BRADLEY	SP-345B	SPEARMAN	SE-697	GUARDIAN	GR02	1 1/4"	1 1/4"	3"
	FD-1 FLOOR DRAIN FLOOR DRAIN TO HAVE A 3" WASTE BOTTOM OUTLET, CAST IRON BODY WITH ADJUSTABLE COLLAR, POLISHED 6" x 6" NICKEL BRONZE SQUARE HEELPROOF STRAINER, AND 1/2" TRAP PRIMER CONNECTION.	ZURN	Z-4465	WATTS	FD-100-M	MFAB	FI000-1	1/2"	-	3"
	HB-1 ANTIFREEZE HOSE BIB ANTIFREEZE HOSE BIB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER, 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIB.	WOODFORD	65	WATTS	H-420	MFAB	M-11-5	3/4"	-	-
	HB-2 HOSE BIB HOSE BIB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER, 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIB.	WOODFORD	24	MFAB	M-11-9000-NPB	ZURN	195X	3/4"	-	-
	IM-1 ICE MAKER BOX PLASTIC ICE MAKER BOX WITH 1/4 TURN BRASS BALL VALVE - COPPER SWEAT AND SUPPLY TUBE TO REFRIGERATOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.	OATEY CO.	38574	GLY GRAY	AB9700	SOLX CHEF	696-G000MF	1/2"	-	-
	OI-1 OIL INTERCEPTOR ELLIPTICAL FIBERGLASS INTERCEPTOR THAT IS CERTIFIED TO MEET IAPMO PS 60-2008 AND APPLICABLE SECTIONS OF THE LATEST EDITIONS OF THE NORTH CAROLINA PLUMBING CODE. INTERCEPTOR IS DESIGNED TO DELIVER 10 FPM NON-EMULSIFIED FREE FLOATING OIL AND 350 FPM TOTAL SUSPENDED SOLIDS EFFLUENT QUALITY BASED ON INLET PEAK FLOW. SIZE 800 GALLON, 45 GPM.	ZURN	OMC-800-LFC	MFAB	SUPER-250-O	SOHER	-	-	-	4"
	OI-2 OIL INTERCEPTOR ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL OIL INTERCEPTOR, BRONZE CLEANOUT PLUG AND VISIBLE DOUBLE WALL. TRAP SEAL, REMOVABLE COMBINATION PRESSURE EQUALIZING FLOW DIFFUSING BAFFLE AND SEDIMENT BUCKET, HORIZONTAL BAFFLE, ADJUSTABLE OIL DRAFFOFF AND VENT CONNECTIONS EITHER SIDE, SECURED GASKETED NON-SKID COVER, COMPLETE WITH FLOW CONTROL FITTING, REGULARLY FURNISHED WITH INLET AND OUTLET IN HIGH POSITION, SIZE 500, 20 GPM.	ZURN	Z-486	MFAB	WATTS	-	-	-	-	3"
	PH-1 RECIRCULATING PUMP RECIRCULATING PUMP SHALL BE 1/6 HORSEPOWER, 120 VOLT, SINGLE PHASE. PROVIDE PUMP WITH MOUNTING BRACKET, CONTROL BY BAS, AQUISTAT AND DISCONNECT. DISCONNECT WIRING BY LICENSED ELECTRICAL CONTRACTOR.	B & G	PL36	TACO	GRUNDFOS	-	-	-	-	-
	L-1 LAVATORY UNDERCOUNTER LAVATORY SHALL BE MADE OF VITREOUS CHINA AND HAVE AN OVERFLOW. HARDWIRED SENSOR FAUCET SHALL BE CHROME FINISH 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH A 0.35 GPM AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM REDUCER, AND FLANGE INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW AND CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET DRAIN AND TUBERO LAV SHIELD. PROVIDE FAUCET WITH COVER PLATE AND WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B123. PROVIDE WITH LOW VOLTAGE TRANSFORMER AND LOW VOLTAGE WIRING.	KOHLER	K-220-O	AMERICAN STANDARD	9482000	TOTO	LT569	-	-	-
	L-2 LAVATORY WALL MOUNT LAVATORY SHALL BE MADE OF CAST IRON WITH A WHITE FINISH. HAVE 4" CENTERS, AN OVERFLOW. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. DECK MOUNTED, HARDWIRED SENSOR FAUCET SHALL BE CHROME FINISH 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH A 0.35 GPM AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM REDUCER, AND FLANGE INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW AND CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET DRAIN AND TUBERO LAV SHIELD. PROVIDE FAUCET WITH COVER PLATE AND WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B123. PROVIDE WITH LOW VOLTAGE TRANSFORMER AND LOW VOLTAGE WIRING.	KOHLER	K-264-O	AMERICAN STANDARD	035502	ZURN	Z584	-	-	-

PLUMBING FIXTURE SCHEDULE										
SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS					PIPING CONNECTIONS			
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
	L-3 LAVATORY PROVIDE 1/4 GA STAINLESS STEEL 3/4" SEMI-CIRCULAR WASHPAN FOR ACCOMMODATE UP TO 3 USERS AT A TIME. THE CLASSIC SPRAYHEAD (NON-SECTIONAL) IS CONTROLLED BY A FOOT RAIL. THE OPERATING RANGE IS 20-80 PSF FLOW RATE CONTROLLED BY VOLUME CONTROL VALVE. PROVIDE WITH THERMOSTATIC MIXING VALVE.	BRADLEY	WF2703	ACORN	WILLOUGHBY	WILLOUGHBY	-	-	-	-
	MR-1 MOP RECEPTOR MOP RECEPTOR SHALL BE 32" x 32" x 12" DEEP WITH ONE PIECE STAINLESS STEEL CAP, NO FLANGES.	STERN WILLIAMS	SP-700	FIAT	TS6300	-	-	-	-	3"
	S-1 SNK SNK IS TO BE 18 GAUGE STAINLESS STEEL, SELF-RIMMING, DECK MOUNTED FAUCET SHALL BE CHROME FINISHED, WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE INLET AND OUTLET SHALL BE 3/8" IPS. PROVIDE WITH MCGUIRE PROWRAP INSULATOR. PROVIDE WITH SPRAYER, DISHWASHER CONNECTION, AND DISPOSAL IF REQUIRED BY ARCHITECT.	JUST	SL-ADA-92A-GR	ELKAY	LRAD-229	KOHLER	-	-	-	-
	SA-1 SHOCK ABSORBER SHOCK ABSORBERS SHALL HAVE A STAINLESS STEEL CASING, FLEXIBLE MECHANICAL BELLOWS, PRESSURIZED INERT GAS CHAMBER AND CERTIFICATION STAMP AS CONFORMING TO STANDARD FDI WH-201 OF THE PLUMBING AND DRAINAGE INSTITUTE.	JOSAM	75000	ZURN	Z1700	WADE	4480	-	-	-
	TD-1 HEAVY DUTY TRENCH DRAIN 6" WIDE. COORDINATE LOCATION AND LENGTH WITH ARCHITECT.	ZURN	Z896-HDS	WATTS	-	-	-	-	-	3"
	UH-1 URINAL URINAL SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND 3/4" TOP SPUD. EXPOSED HARDWIRED SENSOR, CHROME PLATED, 0.25 GPF FLUSH VALVE WITH 3/4" CHROME PLATED SPUD, COUPLING AND FLANGE. MOUNTING HEIGHT TO BE ADA COMPLIANT.	KOHLER	K-506-ET	SLOAN	SJ7009	AMERICAN STANDARD	654132	-	-	2"
	WC-1 WATER CLOSET WALL MOUNTED ELONGATED TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED HARDWIRED SENSOR, CHROME PLATED, 1/28 GPF FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE. MOUNTING HEIGHT TO BE ADA COMPLIANT.	KOHLER	K-4325	SLOAN	ST-2429	AMERICAN STANDARD	654132	-	-	4"
	WC-2 WATER CLOSET WALL MOUNTED ELONGATED TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED HARD WIRED SENSOR, CHROME PLATED, 1/28 GPF FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE.	KOHLER	K-4325	SLOAN	ST-2429	AMERICAN STANDARD	654132	-	-	4"
	WC-3 WATER CLOSET TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND A 1/2" ROUGH-IN AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED HARDWIRED SENSOR, CHROME PLATED, 1/28 GPF FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE.	KOHLER	K-9607-O	SLOAN	ST-2029	AMERICAN STANDARD	230500	-	-	4"
	WH-1 WATER HEATER GAS FIRED WATER HEATER SHALL HAVE AN 100 GALLON STORAGE CAPACITY WITH AN INPUT OF 250 MBH AND A RECOVERY OF 261 GPH AT A 90° RISE. PROVIDE WITH EXPANSION TANK. PROVIDE WITH ACID NEUTRALIZATION KIT.	STATE INDUSTRIES	SU100 ZONE	RHEEM	A.O. SMITH	-	-	1 1/4"	1 1/4"	-
	TMV-1 THERMOSTATIC MIXING VALVE THERMOSTATIC MIXING VALVE TO HAVE A MINIMUM FLOW OF 3 GPM, MAXIMUM DEMAND OF 59 GPM AND A MAXIMUM PRESSURE DROP OF 45 PSF.	LEONARD	TM-850-LPSTL-EXP	ARMSTRONG	BRADLEY	-	-	1 1/4"	1 1/4"	-
	TMV-2 THERMOSTATIC MIXING VALVE THERMOSTATIC MIXING VALVE TO HAVE A MINIMUM FLOW OF 1 GPM, MAXIMUM DEMAND OF 100 GPM AND A MAXIMUM PRESSURE DROP OF 45 PSF.	LEONARD	TM-920B-LF-DT	ARMSTRONG	BRADLEY	-	-	1 1/4"	1 1/4"	-
	AR-1 COMPRESSED AIR HOSE REEL PROVIDE WITH 50', 3/8" HOSE.	REELCRAFT	7650-OLP	HANNAY REELS	N55-19-105J	GRACO	HELOO	-	-	-
	AD-1 COMPRESSED AIR DROP PROVIDE 1/4" FILTER REGULATOR WITH PRESSURE GAUGE, WALL MOUNT BRACKET, 25 MICRON FILTER, AND MANUAL GAUGE.	PREVOST	ALCH	PARKER	WILKERSON	-	-	-	-	-

PLUMBING SCHEDULE NOTES AND LEGEND:

1. PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
2. REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.

ADA COMPLIANT
 ELECTRICAL POWER
 GAS FIRED

ATLANTEC ENGINEERS, PA
 323 BLUE RIDGE ROAD, SUITE 10
 RALEIGH, NC 27602
 PH: 919-571-1111

SEAL

SEAL

MATERIALS KEYING LEGEND

GENERAL NOTES

SCO ID #22-25191-01A; NCCCS #2675

NO.	REVISION	DATE

J K F
 ARCHITECTURE

423 LYNDALE CT. SUITE F. GREENVILLE, NC 27608 252-355-1048

PITT COMMUNITY COLLEGE
NEW WELDING BUILDING

WINNERSVILLE, NC

DRAWING TITLE:
PLUMBING SCHEDULES

SCALE: AS NOTED	DRAWING NO.:
DRAWN: AS NOTED	DRAWN: AS NOTED
CHECKED: NGB	CHECKED: NGB
DATE: 2-15-2024	DATE: 2-15-2024
PROJECT NO. 2022-07	PROJECT NO. 2022-07

P5.1

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LEGEND - DUCTWORK & ACCESSORIES

- SHEET METAL DUCT
EXPOSED DOUBLE WALL SHEET METAL DUCT
FLEXIBLE DUCT
SUPPLY DIFFUSER - LETTER & NUMBER INDICATES TYPE & CFM
RETURN GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
EXHAUST GRILLE - LETTER & NUMBER INDICATES TYPE & CFM OR FAN
BALANCING DAMPER
ELBOW WITH TURNING VANES
DUCT-MOUNTED SMOKE DETECTOR - PROVIDED BY E.C. & INSTALLED BY THE MECHANICAL CONTRACTOR - WIRE TO SHUT DOWN UNIT
MOTOR OPERATED DAMPER
GRAVITY BACKDRAFT DAMPER
MANUAL (BALANCING) DAMPER
OPPOSED BLADE DAMPER
TAPERED TAKE-OFF FITTING W/ LOCKING QUADRANT DAMPER
THERMOSTAT - MOUNTED 48" ABOVE FINISHED FLOOR
WALL MOUNTED TEMPERATURE SENSOR
WALL MOUNTED PRESSURE SENSOR
WALL MOUNTED HUMIDITY SENSOR
DUCT MOUNTED CARBON DIOXIDE SENSOR
DUCT MOUNTED PRESSURE SENSOR
DUCT MOUNTED HUMIDITY SENSOR
DUCT MOUNTED AIR FLOW MONITORING STATION
DOUBLE WALL SPIRAL ROUND DUCT
EXTERNALLY INSULATED RECTANGULAR DUCT
INTERNALLY LINED RECTANGULAR DUCT
GAS METER BY BAS
EMERGENCY STOP SWITCH (BOILER ROOM)
DOOR SWITCH
HR RATED WALL

LEGEND - PIPING & VALVES

- CONDENSATE DRAIN
HOT WATER SUPPLY PIPING
HOT WATER RETURN PIPING
CHILLED WATER SUPPLY PIPING
CHILLED WATER RETURN PIPING
GAS PIPING
MAKE-UP WATER
GATE / BUTTERFLY VALVE
BALL VALVE
CHECK VALVE
PRESSURE REDUCING VALVE
TWO WAY CONTROL VALVE
THREE WAY CONTROL VALVE
RELIEF VALVE
MANUAL AIR VENT
AUTOMATIC FLOW CONTROL VALVE
STRAINER WITH BLOW DOWN
UNION
PIPE CAP
ELBOW UP
ELBOW DOWN
AUTOMATIC AIR VENT
P/T TEST PORT
PRESSURE GAUGE WITH SHUT-OFF COCK
THERMOMETER

ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AHU AIR HANDLING UNIT
BOB BOTTOM OF DUCT
BOP BOTTOM OF PIPE
BTUH BRITISH THERMAL UNIT PER HOUR
CFM CUBIC FEET PER HOUR
CH CHILLER
DN DOWN
EA EXHAUST AIR
EAT ENTERING AIR TEMPERATURE
EF EXHAUST FAN
ELEV ELEVATION
ESP EXTERNAL STATIC PRESSURE
EWT ENTERING WATER TEMPERATURE
FD FLOOR DRAIN
FLA FULL LOAD AMPS
GPM GALLONS PER MINUTE
LAT LEAVING AIR TEMPERATURE
LWT LEAVING WATER TEMPERATURE
MOCP MAXIMUM OVER CURRENT PROTECTION
N/A NOT APPLICABLE
NTS NOT TO SCALE
OA OUTSIDE AIR
PD PRESSURE DROP
PSIG POUNDS PER SQUARE INCH GAUGE
RA RETURN AIR
SA SUPPLY AIR
SP STATIC PRESSURE
TSP TOTAL STATIC PRESSURE
TYP TYPICAL
UH UNIT HEATER
WB WET BULB

GENERAL NOTES

- 1. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING, DUCTWORK OR EQUIPMENT.
2. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS WITH THE ENGINEER.
3. IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. THE CONTRACTOR SHALL TAKE NECESSARY MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHARES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS. HE SHALL PROVIDE TO THE ENGINEER SCALED DRAWINGS OF ALL MECHANICAL SPACES.
4. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR PROPER MAINTENANCE AND SERVICE. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ACCESS CLEARANCE.
5. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT DEVICES. ALL LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OTHER PRIME CONTRACTORS PRIOR TO INSTALLATION.
6. THE MECHANICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
7. INSTALL DUCTWORK IN CEILING HIGH ENOUGH TO AVOID LIGHTS, CONDUIT, AND MISCELLANEOUS PIPING, BUT LOW ENOUGH TO ALLOW ACCESS TO SYSTEM BALANCING DAMPERS.
8. THE MECHANICAL CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ALL PENETRATIONS THROUGH THE ROOF WITH THE GENERAL CONTRACTOR AND THE ROOFING CONTRACTOR.
9. ALL PIPE PENETRATIONS OF FLOORS AND WALLS SHALL BE FIRE SEALED IN ACCORDANCE WITH THE LATEST UL STANDARDS. REFER TO MECHANICAL DETAILS FOR PENETRATION OF MATO ASSEMBLIES.
10. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF FLOORS AND WALLS PERTAINING TO HIS WORK, UNLESS OTHERWISE NOTED.
11. INSTALL FLEXIBLE DUCT CONNECTIONS AT ALL SUPPLY AND RETURN DUCT CONNECTIONS TO AIR HANDLING UNITS, FANS, ETC.
12. PROVIDE SHEET METAL COLLARS AT ALL LOCATIONS WHERE DUCTS PENETRATE WALLS UNLESS OTHERWISE NOTED. COLLARS SHALL BE 14 GAUGE MINIMUM OR EQUIVALENT TO THE DUCT IF DUCTWORK IS OF A HEAVIER GAUGE METAL.
13. PROVIDE FIRE DAMPERS AT DUCT PENETRATIONS THROUGH THE FIRE RATED WALLS AND CEILING AS SHOWN ON THE PLANS AND AS REQUIRED BY CODE. ALL OPENINGS AROUND DUCT PENETRATIONS MUST BE SEALED WITH FIRE STOPPING MATERIAL IN ACCORDANCE WITH THE LATEST UL STANDARDS.
14. THE M.C. SHALL PROVIDE ACCESS DOORS IN DUCTWORK FOR FIRE DAMPERS, SMOKE DAMPERS, AND SMOKE DETECTORS AND SHALL BE LOCATED SUCH THAT THE ACCESS TO THE SYSTEMS IS EASILY ATTAINED. ALL ACCESS PANELS SHALL CONFORM TO THE FOLLOWING SCHEDULE:
DUCT ACCESS DOOR SIZE
UP TO 17" WIDE 12" x 12"
18" TO 27" 16" x 16"
28" AND LARGER 18" x 18"
15. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE REQUIRED FOR SYSTEM BALANCING AND AS INDICATED ON THE PLANS.
16. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS OTHERWISE NOTED. WHERE SQUARE ELBOWS ARE SHOWN, PROVIDE TURNING VANES.
17. THE MECHANICAL CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTORS (FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR) IN THE RETURN AIR DUCT FOR EACH AIR HANDLING UNIT PRIOR TO THE POINT OF ENTRY OF OUTSIDE AIR. MECHANICAL CONTRACTOR TO PROVIDE ACCESS DOOR.
18. LOCATE ALL DOC TEMPERATURE SENSORS 48" ABOVE FINISHED FLOOR.
19. ALL DUCT DIMENSIONS ARE ACTUAL FREE AREA DIMENSIONS, UNLESS OTHERWISE NOTED. PROVIDE 2" EXTERIOR DUCT WRAP INSULATION ON ALL SUPPLY AIR DUCTS, AND OUTSIDE AIR DUCTS, UNLESS NOTED OTHERWISE.
20. ALL DUCTWORK, PIPING, AND EQUIPMENT LAYOUTS AND LOCATIONS SHOWN ARE DIAGRAMMATIC. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PROJECT AND COORDINATE THE DUCT AND PIPING LAYOUTS WITH ALL CONTRACTORS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL PROVIDE AT NO ADDITIONAL COST TO THE OWNER, ALL DUCT AND PIPING OFFSETS REQUIRED FOR THE SYSTEMS TO FIT THE SPACE PROVIDED WHETHER OR NOT THOSE OFFSETS ARE INDICATED ON THE PLANS.
21. ALL DUCTWORK, PIPING, AND EQUIPMENT SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, NOT FROM THE ROOF DECK OR BAR JOIST BRIDGING.
22. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE ROUGH-IN OF ALL HYDRONIC PIPING AND DUCTWORK WITH THE GENERAL CONTRACTOR. ALL DUCT AND PIPE PENETRATIONS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR, PROVIDED BY THE GENERAL CONTRACTOR. MECHANICAL SHOP DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT/ENGINEER AND GENERAL CONTRACTOR WITH ALL DUCT AND PIPE PENETRATIONS SIZED AND LOCATED. THESE SHOP DRAWINGS SHALL BE SUBMITTED DURING EARLY PHASES OF CONSTRUCTION SO NOT TO DELAY THE GENERAL CONSTRUCTION SCHEDULE. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONCRETE PADS REQUIRED FOR SUPPORT OF HIS EQUIPMENT. THE PADS SHALL BE 2" WIDER THAN THE EQUIPMENT.
23. FLEXIBLE PIPE CONNECTIONS SHALL BE PROVIDED AT ALL HYDRONIC PIPING CONNECTIONS AND AT BASED MOUNTED PUMPS IN ACCORDANCE WITH THE MECHANICAL DETAILS AND SPECIFICATIONS.
24. MANUAL AIR VENTS SHALL BE INSTALLED AT ALL HIGH POINTS OF HYDRONIC PIPING SYSTEMS AS REQUIRED IN FIELD.
25. ALL EXTERIOR WATER PIPING ABOVE GROUND SHALL BE WRAPPED WITH ELECTRIC HEAT TAPE PRIOR TO APPLYING THE INSULATION. WRAP INSULATION WITH ALUMINUM JACKET AND SEAL ALL JOINTS.
26. ALL SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR DUCTS SHALL BE SEALED AIR TIGHT WITH DUCT SEALANT. ENGINEER TO WITNESS THAT ALL DUCTS HAVE BEEN SEALED PRIOR TO INSULATING DUCTWORK.
27. SUPPORT ALL FLEXIBLE DUCT EVERY 8'-0" (MAX) AND AT CHANGE IN DIRECTION. ALL FLEX DUCT TO RECEIVE A MINIMUM OF 10" CLEARANCE.
28. LOCATE ALL VALVES A MAXIMUM OF 6'-0" ABOVE FINISHED FLOOR IN MECHANICAL ROOMS.
29. STENCIL ALL PIPE WITH IDENTIFICATION AND FLOW ARROW • 10'-0" O.C. AT BOTH SIDES OF WALL PENETRATIONS AND AT EACH TAKE-OFF.
30. ON ALL ROOF PENETRATIONS PROVIDE FLASHING MATERIAL COMPATIBLE WITH ROOFING SYSTEM. GENERAL CONTRACTOR TO TIE FLASHING INTO ROOFING AS REQUIRED.
31. MOUNT ALL NEW EQUIPMENT ON 4" CONCRETE PAD 6" WIDER THAN EQUIPMENT FOOTPRINT BY MC. PAINT ALL INTERIOR PADS WITH OSHA APPROVED YELLOW.
32. THE M.C. SHALL INSTALL ACCESS DOORS TO ALLOW FOR INSPECTION AND CLEANING OF DUCTWORK.
33. PROVIDE POLYESTER MERV 8 FILTERS ON ALL RETURN GRILLES DURING CONSTRUCTION.
34. THE MECHANICAL CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE WITH NORTH CAROLINA AMENDMENTS.
35. ALL DUCT SHALL BE STORED OFFSITE UNTIL WEEK OF INSTALLATION. DUCTWORK WHILE STORED ON SITE SHALL HAVE END PROTECTED WITH PLASTIC. INSTALLED DUCTWORK PRIOR TO FINAL CONNECTIONS SHALL HAVE ENDS COVERED AT THE END OF EACH DAY. NO EXCEPTIONS APPLY TO ALL DUCTWORK.
36. ALL MECHANICAL SYSTEMS SHALL BE TESTED AND BALANCED BY CERTIFIED TEST AND BALANCE AGENCY. A WRITTEN TEST AND BALANCE REPORT SHALL BE PROVIDED. VERIFICATION SHALL BE CONDUCTED BY THE COMMISSIONING AGENT WITH ASSISTANCE FROM MECHANICAL CONTRACTOR AND CONTROL SUB-CONTRACTOR.
37. THE OWNER SHALL BE TRAINED FOR PROPER OPERATION AND MAINTENANCE OF ALL SYSTEMS. TRAINING SHALL BE VIDEOED FOR FUTURE REFERENCE AND DELIVERED TO OWNER IN MP4 FORMAT ON FLASH DRIVE. A MINIMUM OF FOUR HOURS OF TRAINING FOR ALL AHU'S, CHILLED WATER AND HOT WATER SYSTEMS SHALL BE PROVIDED FOR UP TO 6 OWNER REPRESENTATIVES. AN ADDITIONAL 8 HOURS OF TRAINING SHALL BE PROVIDED FOR CONTROL SYSTEMS FOR UP TO 6 OWNER REPRESENTATIVES.
38. ALL MECHANICAL SYSTEMS WILL BE COMMISSIONED BY COMMISSIONING AUTHORITY. MECHANICAL CONTRACTOR, TEST AND BALANCE AND CONTROL SUB-CONTRACTORS SHALL PROVIDE ANY AND ALL SUPPORT FOR COMMISSIONING PROCESS.
39. CONTRACTOR SHALL PROVIDE TESTING OF ALL FIRE DAMPERS PRIOR TO SUBSTANTIAL COMPLETION. ENGINEER SHALL WITNESS TESTING OF FIRE DAMPER BY CONTRACTOR. CONTRACTOR SHALL SHUT ALL DAMPERS AND REOPEN TO ENSURE ALL DAMPERS ARE CAPABLE OF CLOSING. CONTRACTOR SHALL PROVIDE ACCESS DOORS AS REQUIRED TO ACCESS DAMPER FOR TESTING.
40. FLASH ALL WALL/FLOOR DUCT PENETRATIONS WITH SHEET METAL FLASHING.

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE
PRESCRIPTIVE [] ENERGY COST BUDGET [X]
THERMAL ZONE 3A
EXTERIOR DESIGN CONDITIONS
winter dry bulb: 22°F
summer dry bulb: 95°F
relative humidity: 46%
INTERIOR DESIGN CONDITIONS
winter dry bulb: 70°F
summer dry bulb: 74°F
relative humidity: 60%
BUILDING HEATING LOAD: BLOCK LOAD = 3020 MBH
BUILDING COOLING LOAD: BLOCK LOAD = 1297.4 MBH (08J TONS)
MECHANICAL SPACING CONDITIONING SYSTEM
UTILITY:
description of unit:
heating efficiency:
cooling efficiency:
heat output of unit:
cooling output of unit:
SEE SCHEDULES ON SHEET M7J
Boiler: 2 x 750 MBH CONDENSING BOILERS
total boiler capacity: BOILERS SIZED FOR MORNING WARM-UP LOADS.
Chiller: AIR COOLED NOMINAL 180 TON CHILLER
total chiller capacity, if oversized state reason.
LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON SHEET M7J
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)
motor horsepower:
number of phases:
minimum efficiency:
motor type:
of poles:
SEE SCHEDULES ON SHEET M7J
DESIGNER STATEMENT
To the best of my knowledge and belief, the design of the building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Energy Code.
SIGNED: [Signature]
NAME: Bradley W. Falta, PE
TITLE: Professional Engineer

Table with 10 columns: Zone Name / Space Name, Mult., Minimim Supply Air (CFM), Space Floor Area (sqft), Area Outdoor Air Rate (CFM/sqft), Time Averaged Occupancy (Occupants), People Outdoor Air Rate (CFM/Person), Air Distribution Effectiveness (Ez), Space Outdoor Air (CFM), Breathing Zone Outdoor Air (CFM), Space Ventilation Efficiency (Evz). Includes AHU-1 Required Outdoor Air and AHU-2 Required Outdoor Air sections.

Table with 10 columns: Zone Name / Space Name, Mult., Minimim Supply Air (CFM), Space Floor Area (sqft), Area Outdoor Air Rate (CFM/sqft), Time Averaged Occupancy (Occupants), People Outdoor Air Rate (CFM/Person), Air Distribution Effectiveness (Ez), Space Outdoor Air (CFM), Breathing Zone Outdoor Air (CFM), Space Ventilation Efficiency (Evz). Includes AHU-3 & 4 Required Outdoor Air, AHU-5 Required Outdoor Air, and AHU-6 Required Outdoor Air sections.

COORDINATION DRAWINGS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTANTATION OF ALL PIPING, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETING TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 0500.

PROVIDED OUTSIDE AIR

PROVIDED:
AHU-1 = 100 CFM
AHU-2 = 100 CFM
AHU-3 = 100 CFM
AHU-4 = 100 CFM
AHU-5 = 100 CFM
AHU-6 = 950 CFM
TOTAL PROVIDED = 6950 CFM

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323 BLUE RIDGE ROAD, SUITE 19
RALEIGH, NC 27602
PH: 919-578-1111
Professional Engineer Seal for Bradley W. Falta, No. C-361, Exp. 12/31/24.

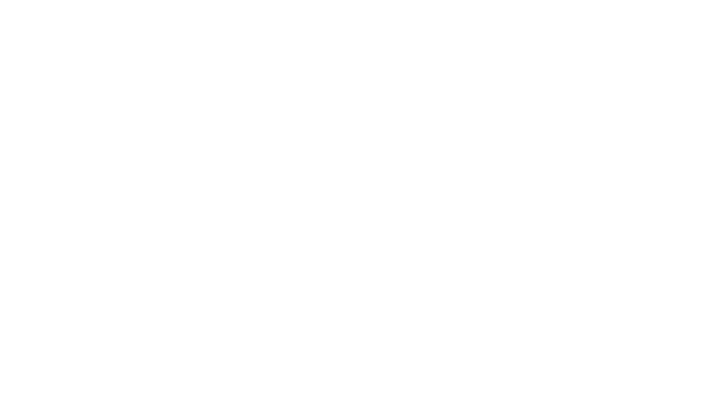
MATERIALS KEYING LEGEND

Table for MATERIALS KEYING LEGEND with columns for Item No., Description, and Material/Quantity.

GENERAL NOTES

Table with 3 columns: NO., REVISION, and DATE.

KEY PLAN



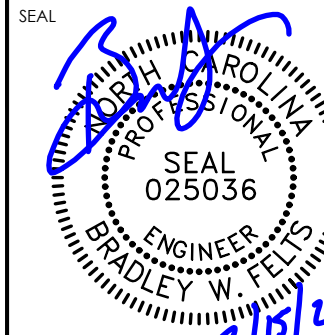
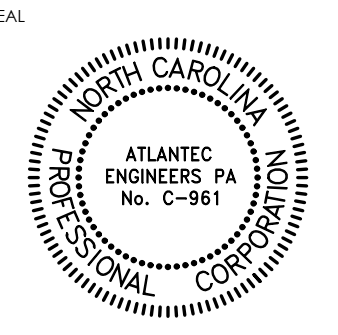
SCO ID #22-25191-01A; NCCCS #2675

J K F ARCHITECTURE
425 LYNDALE CT. SUITE F, GREENVILLE, NC 27658 252-355-1048

PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC

MECHANICAL LEGENDS AND GENERAL NOTES

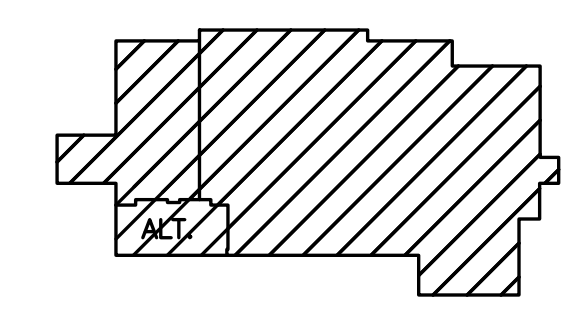
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DRAWN: BWF
CHECKED: BWF
DATE: 2-15-2024
PROJECT NO: 2022-07



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

SEAL

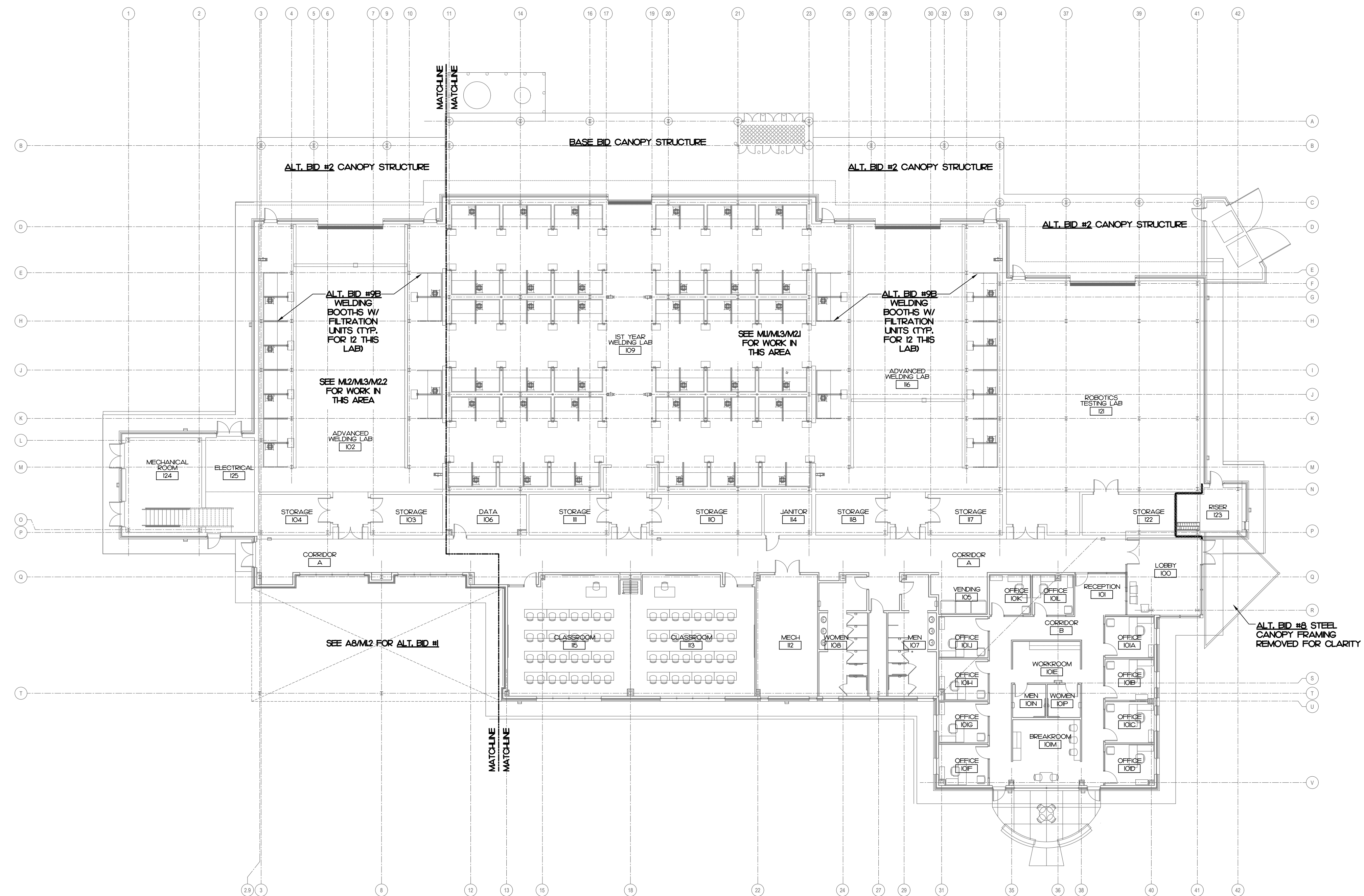
J K F
ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27608 252.355.1048

**PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC**

DRAWING TITLE
**MECHANICAL
OVERALL PLAN**

SCALE	1/16" = 1'-0"	DRAWING NO.	MI.O
DRAWN	BWF		
CHECKED	BWF		
DATE	2-15-2024		
PROJECT NO.	2022-07		

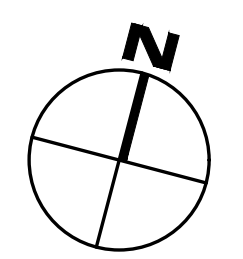


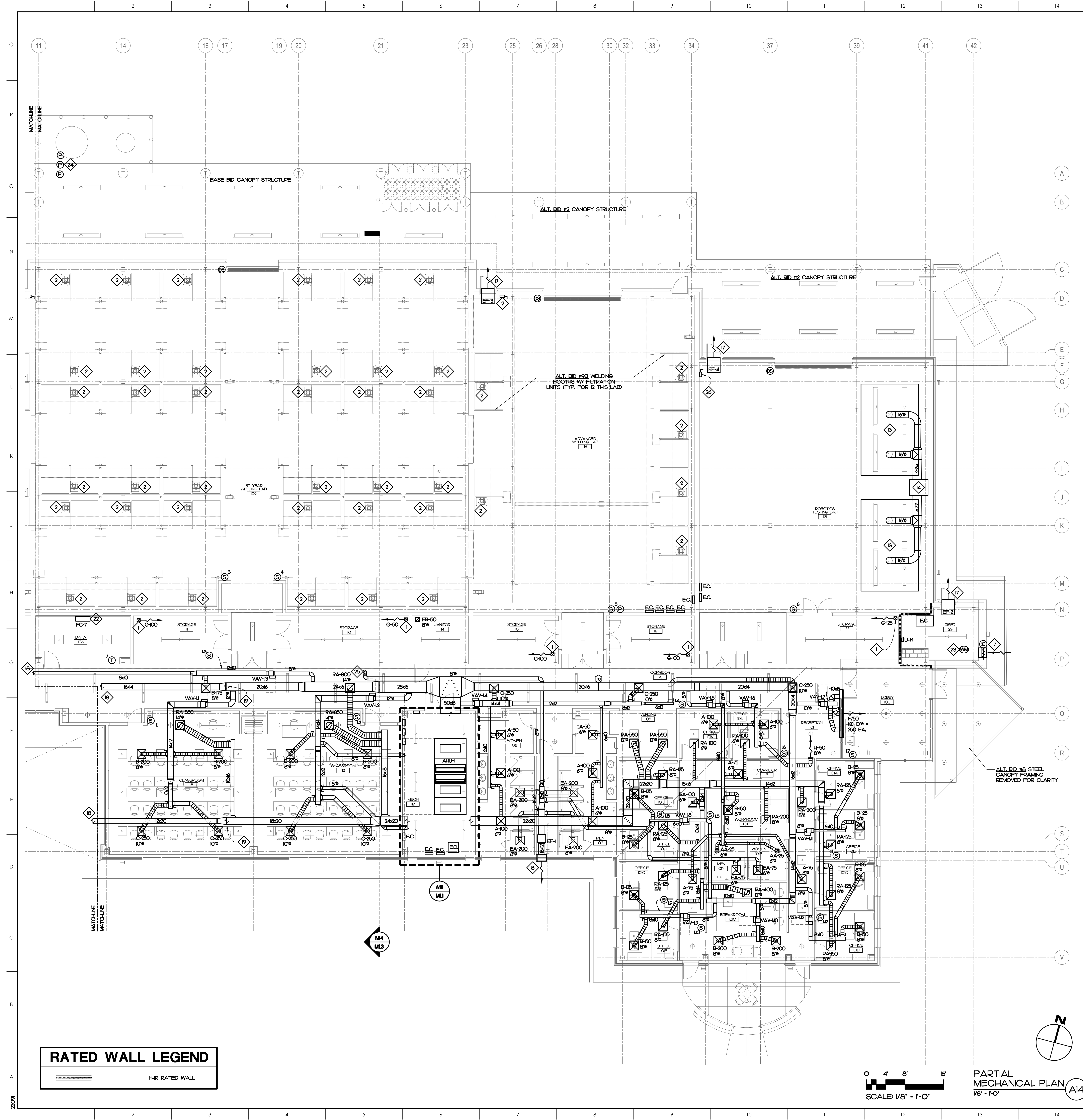
RATED WALL LEGEND

	1-HR RATED WALL
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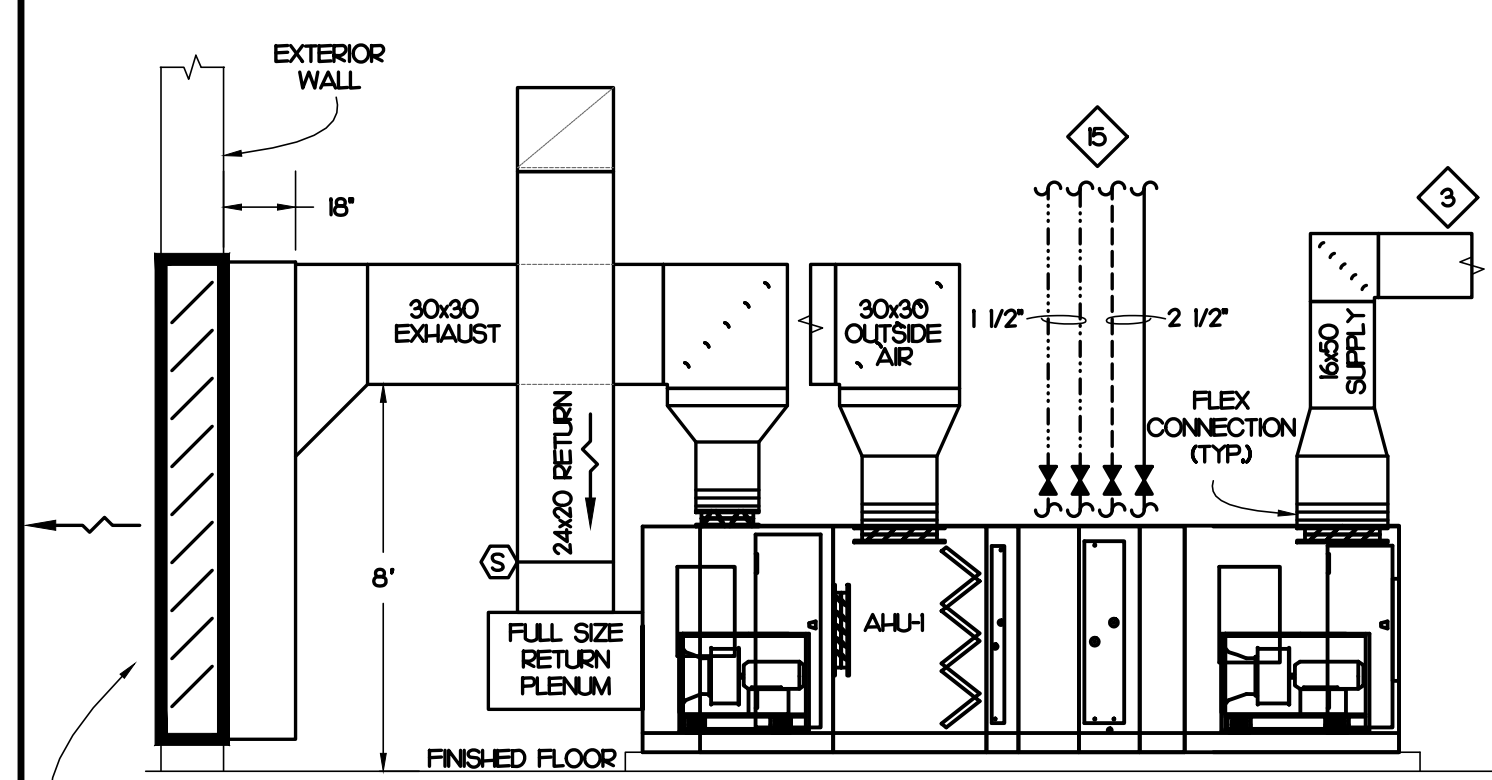
**OVERALL
MECHANICAL PLAN**
1/16" = 1'-0" (A18)



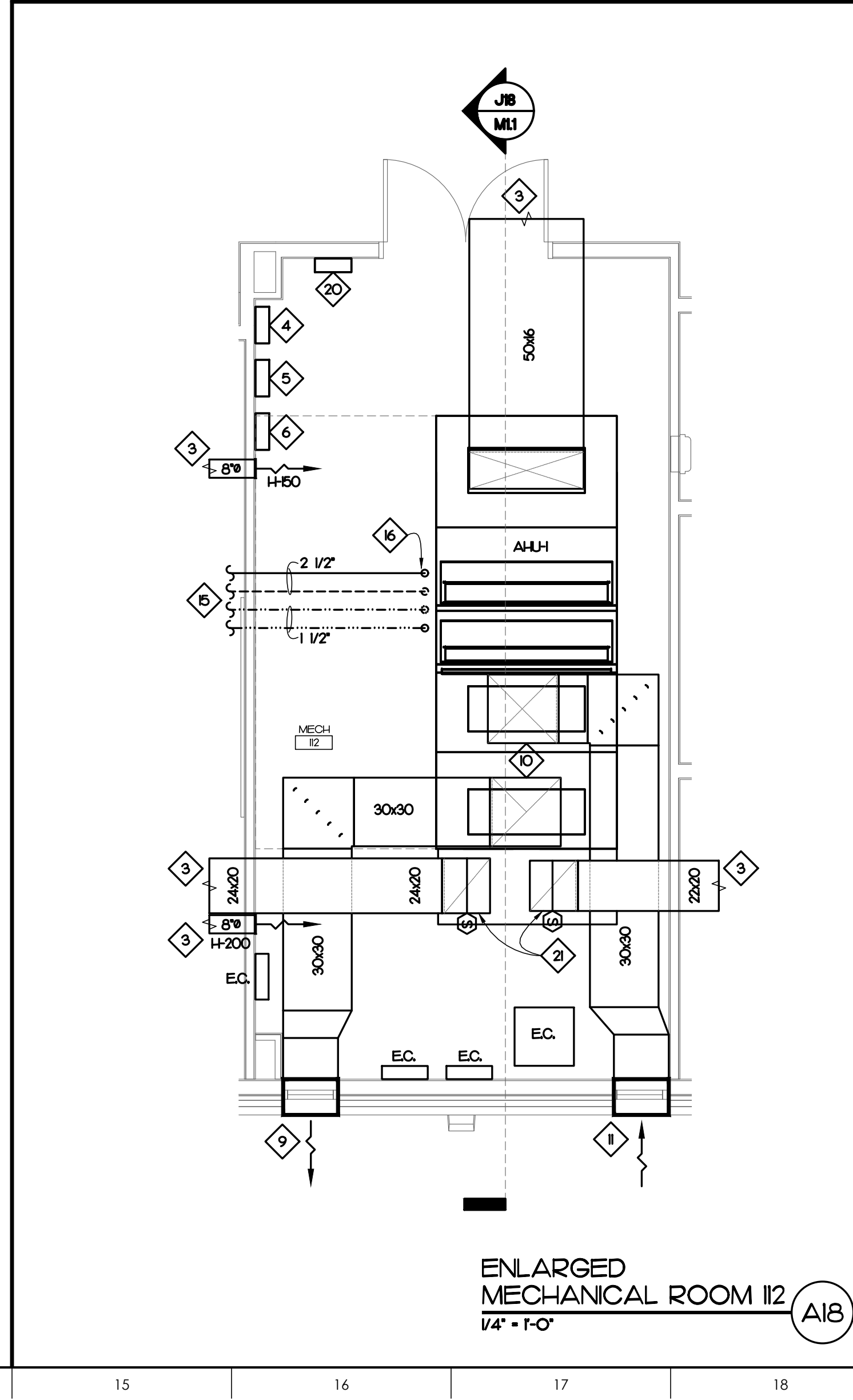


MECHANICAL KEY NOTES

- 1 6"x8" SUPPLY DUCT DOWN FROM ABOVE. SEE M21 FOR CONTINUATION.
- 2 DOUBLE WELD BOOTH WITH FILTRATION SYSTEM RECIRCULATING TO SPACE. 5HP, 480/3. SEE ELECTRICAL FOR DISCONNECT. SEE ARCHITECTURAL FOR DETAILS.
- 3 SEE A14M1 FOR CONTINUATION.
- 4 SUPPLY FAN VARIABLE FREQUENCY DRIVE.
- 5 RETURN FAN VARIABLE FREQUENCY DRIVE.
- 6 BUILDING AUTOMATION SYSTEM PANEL.
- 7 PROVIDE 24G4 INTAKE LOUVER/DAMPER FOR 100 CFM AND 16 SQFT OF FREE AREA. PROVIDE WITH 24V ACTUATOR. PROVIDE WITH KYNAR FINISH AND BRD SCREEN. BOTTOM OF LOUVER TO BE 1' ABOVE FINISHED GRADE.
- 8 PROVIDE 24G4 EXHAUST LOUVER FOR 100 CFM AND 16 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND BRD SCREEN.
- 9 PROVIDE 24G20 RELIEF AIR LOUVER FOR 9000 CFM AND 89 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND BRD SCREEN.
- 10 30x30 OUTSIDE/EXHAUST AIR DUCT DOWN TO AHU. SEE DETAIL E6M42.
- 11 PROVIDE 24420 OUTSIDE AIR INTAKE LOUVER FOR 9000 CFM AND 89 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND BRD SCREEN.
- 12 STARTER FOR EF-3.
- 13 17"X12" FUME HOOD WITH CURTAIN EQUIVALENTS BY CLEAN AIR AMERICA, FUME DOG, KEMPER AMERICA.
- 14 FILTRATION ASSEMBLY WITH FIRE SUPPRESSION AND SMOKE DETECTION. 6000 CFM, (5) FIRE RETARDANT MERV 8 FILTERS, (2) 1/4" MOTORS, 27/8" FLA, 35" HOCIP. PROVIDE WITH HEAVY DUTY FUSIBLE DISCONNECT, INTERNAL VFD, INTERNAL CONTROLS. EQUIVALENTS BY CLEAN AIR AMERICA, FUME DOG, KEMPER AMERICA.
- 15 SEE A14M2 FOR CONTINUATION.
- 16 CHILLED/WATER DROP DOWN TO AHU. PROVIDE WITH BUTTERFLY VALVE IN DROP.
- 17 SIDEWALL EXHAUST FAN WITH LOUVER. SEE DETAIL A14M2.
- 18 SEE DETAIL A6M42 FOR CONTINUATION.
- 19 TERMINATE DUCT AT THIS LOCATION FOR BASE BID DESIGN.
- 20 BAS MASTER CONTROL PANEL.
- 21 RETURN DUCT DOWN TO FULL SIZE RETURN AIR PLENUM.
- 22 ROUTE CONDENSATE TO HUB DRAN ON MEZZANINE.
- 23 PROVIDE WATER METER IN MAIN WATER LINE. SEE PLUMBING PLANS FOR PIPING.
- 24 PROVIDE (3) ARGON/ARGON MIX LINE PRESSURE MONITOR SENSOR FOR BUILDING AUTOMATION SYSTEM. SEE PLUMBING PLANS FOR PIPING.
- 25 6"X EXHAUST DUCT UP TO MEZZANINE. SEE M13 FOR CONTINUATION.
- 26 STARTER FOR EF-4.



SECTION THRU MECHANICAL ROOM 112
1/4" = 1'-0"



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PH: 919-578-1111

SEAL: [Signature]
ATLANTEC ENGINEERS, PA
No. C-361
SEAL: 025036
ATLANTEC ENGINEERS, PA
RALEIGH, NC

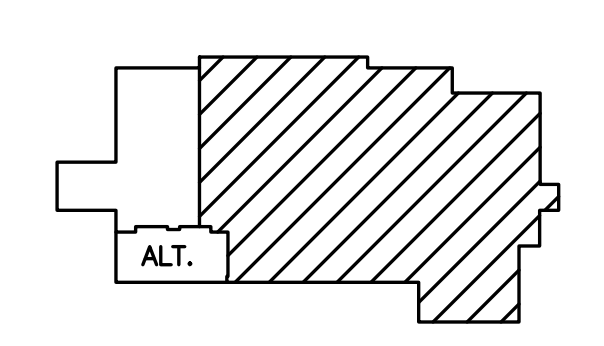
MATERIALS KEYING LEGEND

KEY	DESCRIPTION
1	6"x8" SUPPLY DUCT
2	DOUBLE WELD BOOTH WITH FILTRATION SYSTEM
3	SEE A14M1 FOR CONTINUATION
4	SUPPLY FAN VARIABLE FREQUENCY DRIVE
5	RETURN FAN VARIABLE FREQUENCY DRIVE
6	BUILDING AUTOMATION SYSTEM PANEL
7	PROVIDE 24G4 INTAKE LOUVER/DAMPER FOR 100 CFM AND 16 SQFT OF FREE AREA
8	PROVIDE 24G4 EXHAUST LOUVER FOR 100 CFM AND 16 SQFT OF FREE AREA
9	PROVIDE 24G20 RELIEF AIR LOUVER FOR 9000 CFM AND 89 SQFT OF FREE AREA
10	30x30 OUTSIDE/EXHAUST AIR DUCT DOWN TO AHU
11	PROVIDE 24420 OUTSIDE AIR INTAKE LOUVER FOR 9000 CFM AND 89 SQFT OF FREE AREA
12	STARTER FOR EF-3
13	17"X12" FUME HOOD WITH CURTAIN EQUIVALENTS BY CLEAN AIR AMERICA, FUME DOG, KEMPER AMERICA
14	FILTRATION ASSEMBLY WITH FIRE SUPPRESSION AND SMOKE DETECTION
15	SEE A14M2 FOR CONTINUATION
16	CHILLED/WATER DROP DOWN TO AHU
17	SIDEWALL EXHAUST FAN WITH LOUVER
18	SEE DETAIL A6M42 FOR CONTINUATION
19	TERMINATE DUCT AT THIS LOCATION FOR BASE BID DESIGN
20	BAS MASTER CONTROL PANEL
21	RETURN DUCT DOWN TO FULL SIZE RETURN AIR PLENUM
22	ROUTE CONDENSATE TO HUB DRAN ON MEZZANINE
23	PROVIDE WATER METER IN MAIN WATER LINE
24	PROVIDE (3) ARGON/ARGON MIX LINE PRESSURE MONITOR SENSOR FOR BUILDING AUTOMATION SYSTEM
25	6"X EXHAUST DUCT UP TO MEZZANINE
26	STARTER FOR EF-4

GENERAL NOTES

SCO ID #22-25191-01A; NCCCS #2675

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO.	REVISION	DATE

JKF
ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27608 252-355-1048

PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC

DRAWING TITLE: **PARTIAL MECHANICAL PLAN**

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

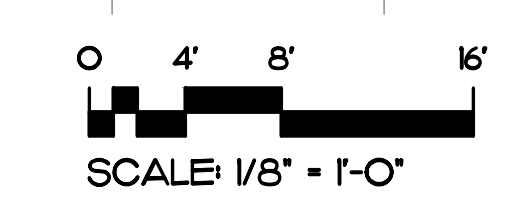
DRAWN: BWF
CHECKED: BWF

DATE: 2-15-2024
PROJECT NO: 2022-07

PROJECT NO: 2022-07
COPYRIGHT: JKF ARCHITECTURE PC, JOHN K. FARNS, AIA

RATED WALL LEGEND

[Symbol]	H-R RATED WALL
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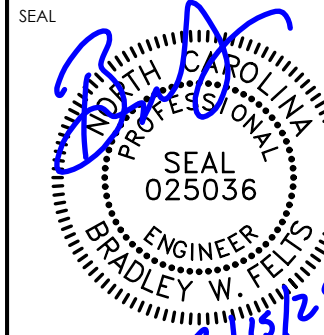
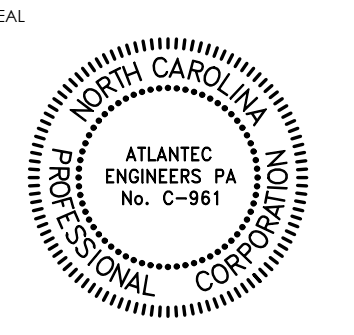


PARTIAL MECHANICAL PLAN
1/8" = 1'-0"

MECHANICAL KEY NOTES

- 1 6"x8" SUPPLY DUCT DOWN FROM ABOVE. SEE M21 FOR CONTINUATION.
- 2 DOUBLE WELD BOOTH WITH FILTRATION SYSTEM RECIRCULATING TO SPACE. 54P, 480/3. SEE ELECTRICAL FOR DISCONNECT. SEE ARCHITECTURAL FOR DETAILS.
- 3 STARTER FOR EF-3.
- 4 SIDEWALL EXHAUST FAN WITH LOUVER. SEE DETAIL A44M4.2.
- 5 SEE DETAIL A44M41 CONTINUATION.

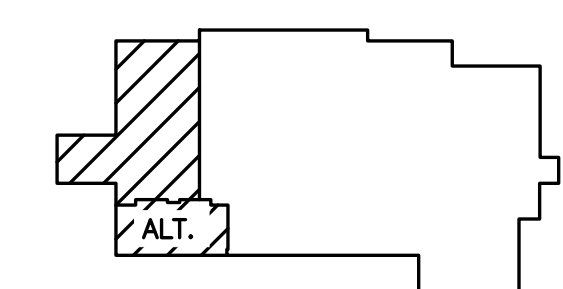
ATLANTEC
ENGINEERS, PA
322 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH 919 571-1111



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

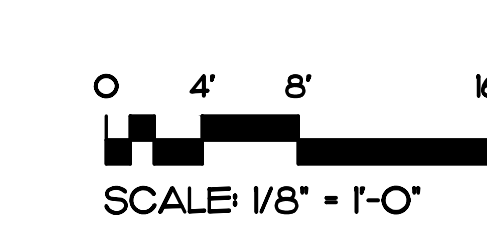
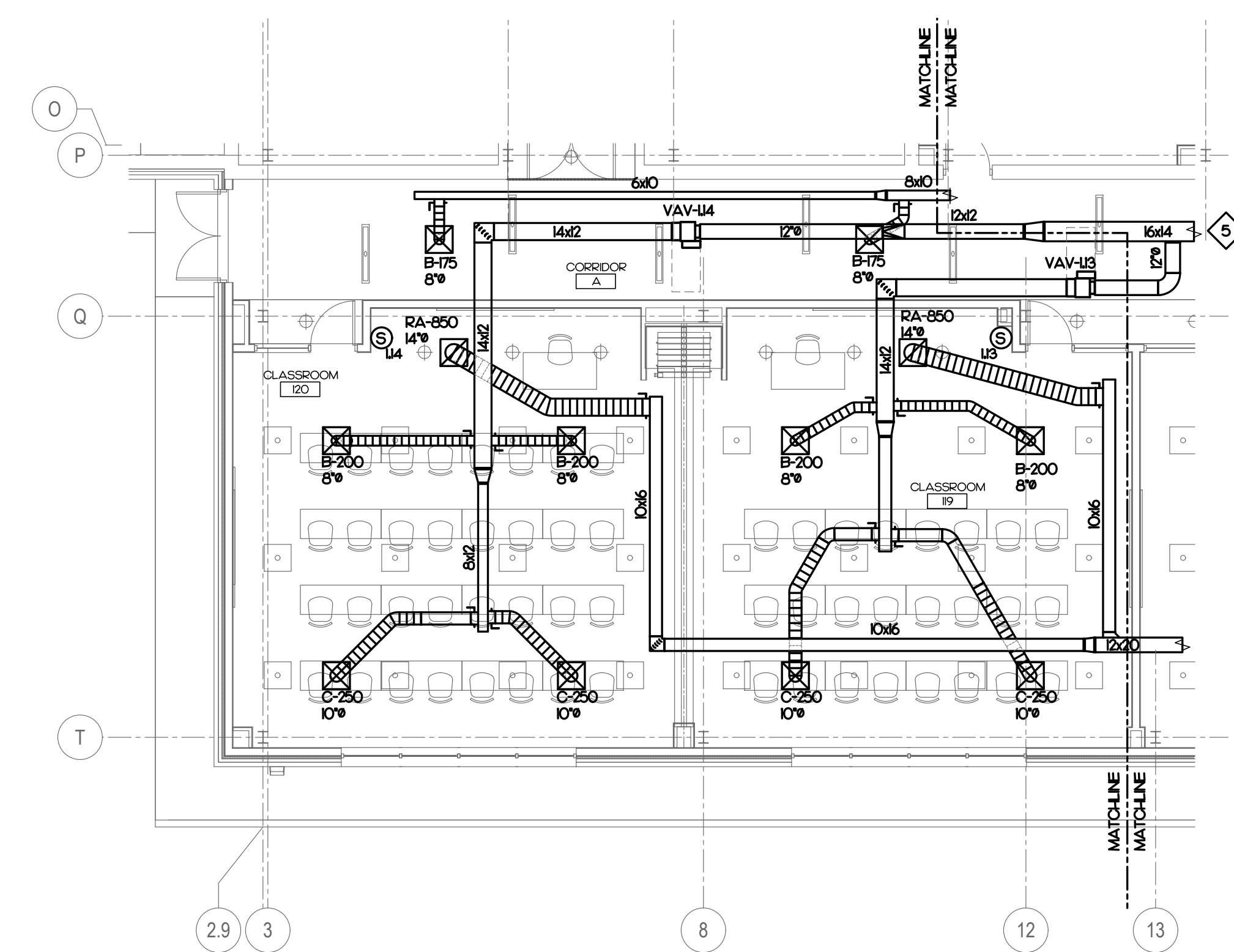
J K F
ARCHITECTURE

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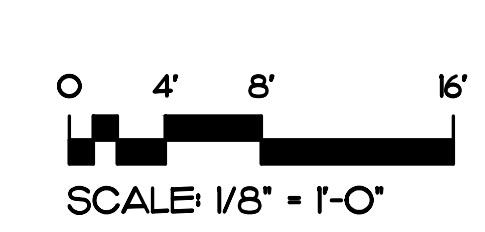
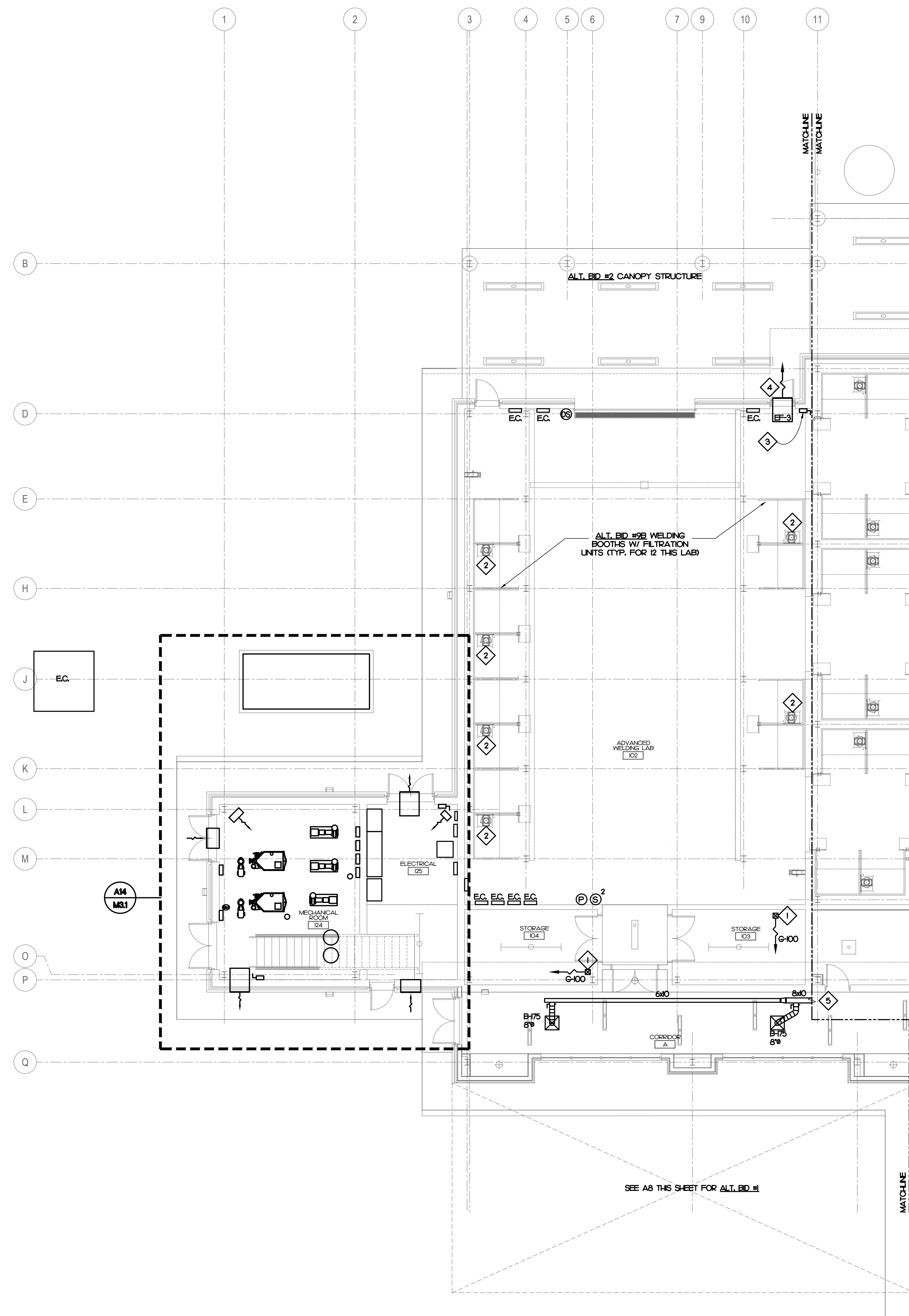
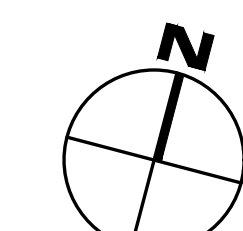
**PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERSVILLE, NC**

DRAWING TITLE
**BASE BID - PARTIAL MECHANICAL PLAN
ALT BID #1 - PARTIAL MECHANICAL PLAN**

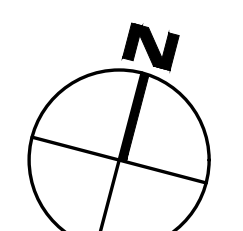
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DRAWN	BWF		
CHECKED	BWF		
DATE	2-15-2024		
PROJECT NO.	2022-07		

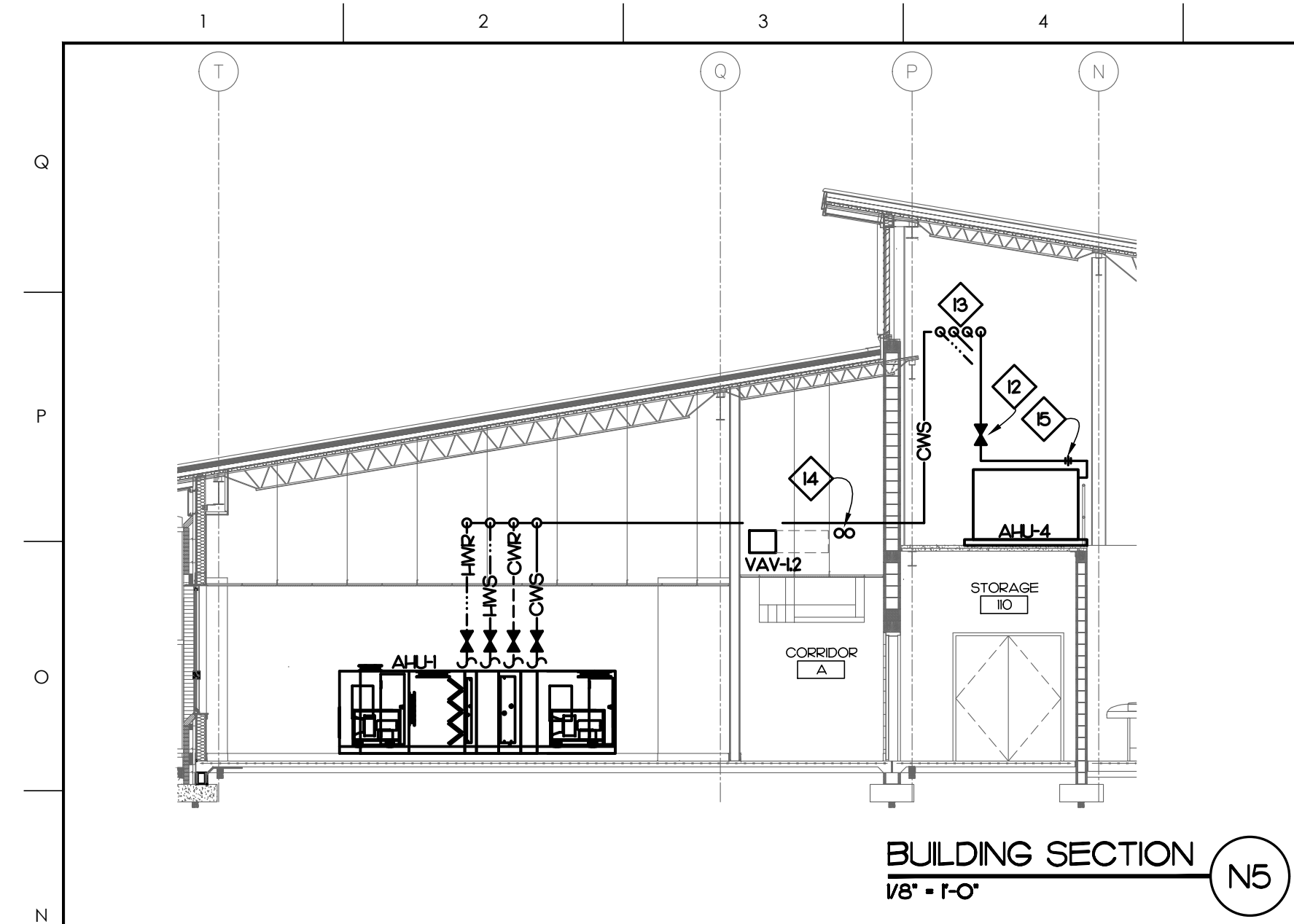


ALT. BID #1
PARTIAL
MECHANICAL PLAN
1/8" = 1'-0" **(A8)**

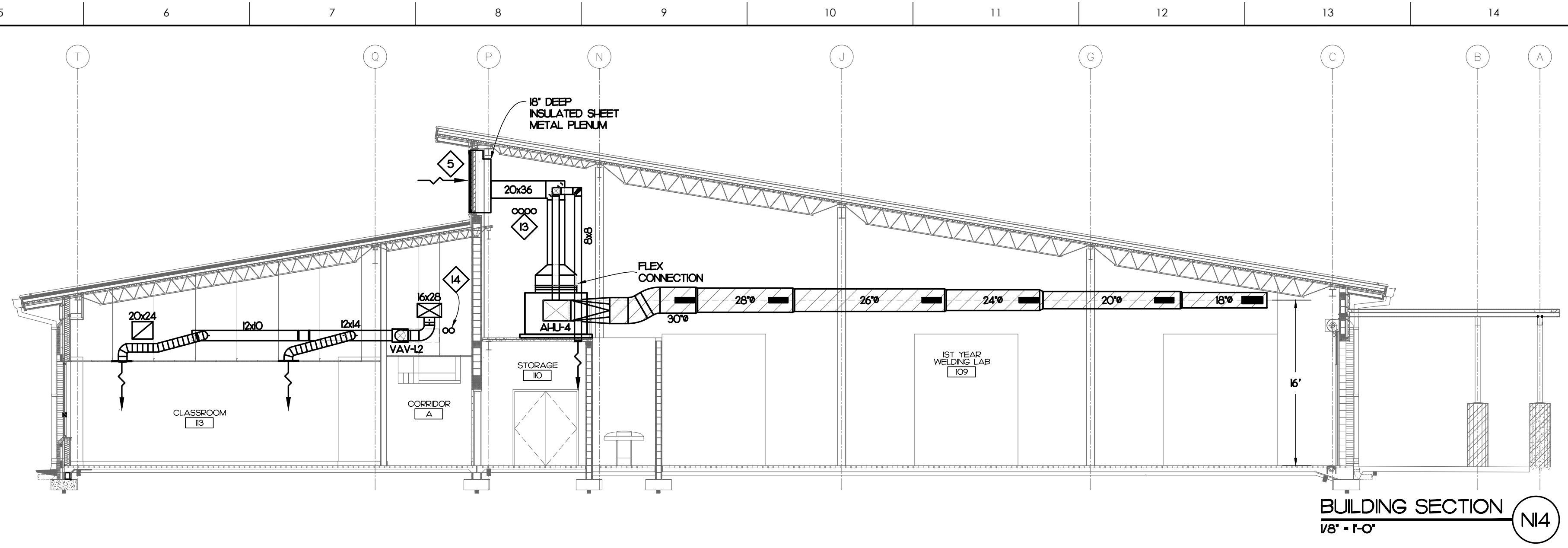


PARTIAL
MECHANICAL PLAN
1/8" = 1'-0" **(A18)**





BUILDING SECTION N5
1/8" = 1'-0"



BUILDING SECTION N14
1/8" = 1'-0"

- ### MECHANICAL KEY NOTES
- 1 AIR HANDLER VARIABLE FREQUENCY DRIVE.
 - 2 BUILDING AUTOMATION SYSTEM PANEL.
 - 3 PROVIDE 20/22 RELIEF AIR LOWERS/DAMPERS FOR 1200 CFM AND 18.3 SQFT OF FREE AREA. PROVIDE WITH 24V ACTUATOR. PROVIDE WITH KYNAR FINISH AND BRD SCREEN.
 - 4 PROVIDE 40/22 OUTSIDE AIR LOUVER FOR 7000 CFM AND 15.7 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND BRD SCREEN.
 - 5 PROVIDE 48/22 OUTSIDE AIR LOUVER FOR 3200 CFM AND 12.4 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND BRD SCREEN.
 - 6 HOOD/FILTRATION SYSTEM BELOW. SEE A14/M1.
 - 7 12' LONG, 36x6, FULL SIZE RETURN DUCT. COVER OPENENDED DUCT WITH HARDWARE CLOTH.
 - 8 12' LONG, 36x6, FULL SIZE RETURN DUCT. COVER OPENENDED DUCT WITH HARDWARE CLOTH.
 - 9 BRIDGE CRANE BY OTHERS. MOUNT DUCT 16'-0" AFF.
 - 10 SUPPLY TAP OFF TOP OF MAIN DUCT AND ROUTE TIGHT TO STRUCTURE ABOVE.
 - 11 ALL VALVING TO BE ACCESSIBLE FROM WALKWAY NO MORE THAN 6' AFF.
 - 12 CHILLED WATER SUPPLY/RETURN AND HOT WATER SUPPLY/RETURN. SUPPORT PIPING FROM STRUCTURE ABOVE.
 - 13 HOT WATER SUPPLY/RETURN SERVING VAV-11 THROUGH VAV-14.
 - 14 PROVIDE LUNION FOR COOL REMOVAL.
 - 15 8" EXHAUST DUCT FROM BELOW. ROUTE TIGHT TO STRUCTURE ABOVE.
 - 16 8" EXHAUST DUCT DOWN TO JANITOR 1A. SEE M1 FOR CONTINUATION.

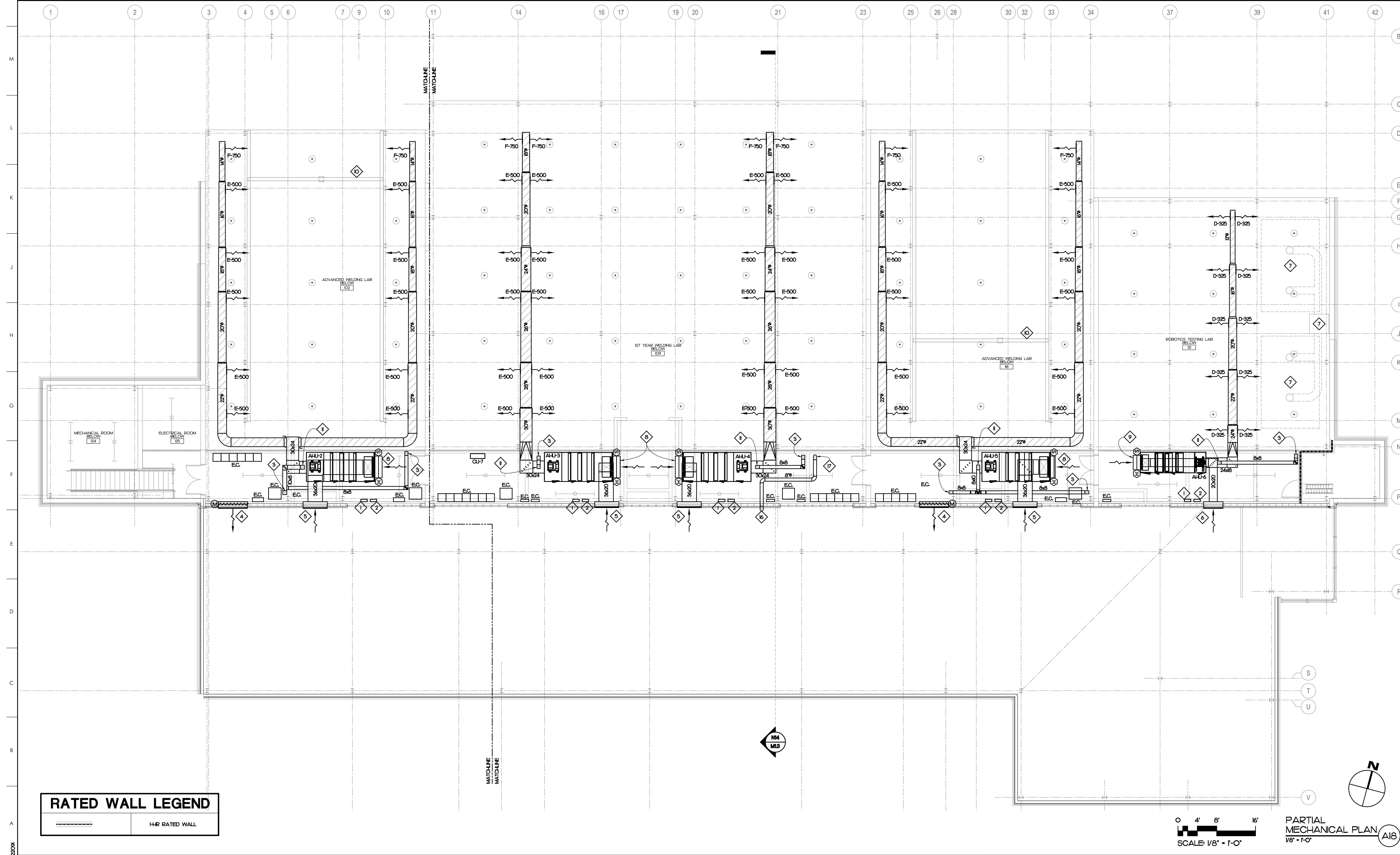
ATLANTEC ENGINEERS, PA
 322 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 PH 919 571-1111

SEAL: [Professional Engineer Seal]
 SEAL: [Professional Engineer Seal]

MATERIALS KEYING LEGEND

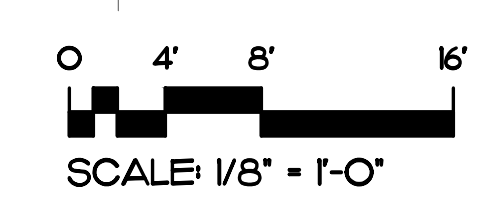
GENERAL NOTES

KEY PLAN



RATED WALL LEGEND

[Symbol]	H-R RATED WALL
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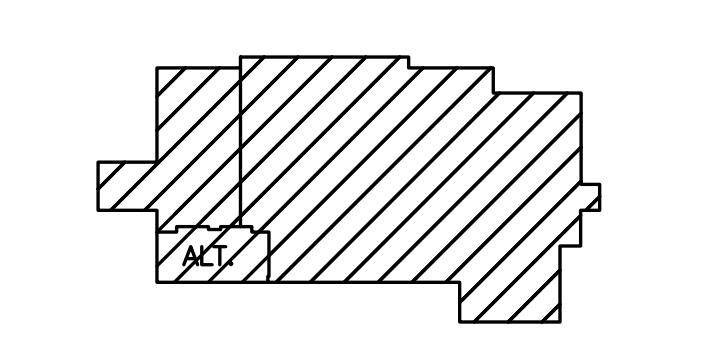


PARTIAL MECHANICAL PLAN
 1/8" = 1'-0" (A18)

GENERAL NOTES

SCO ID #22-25191-01A; NCCCS #2675

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

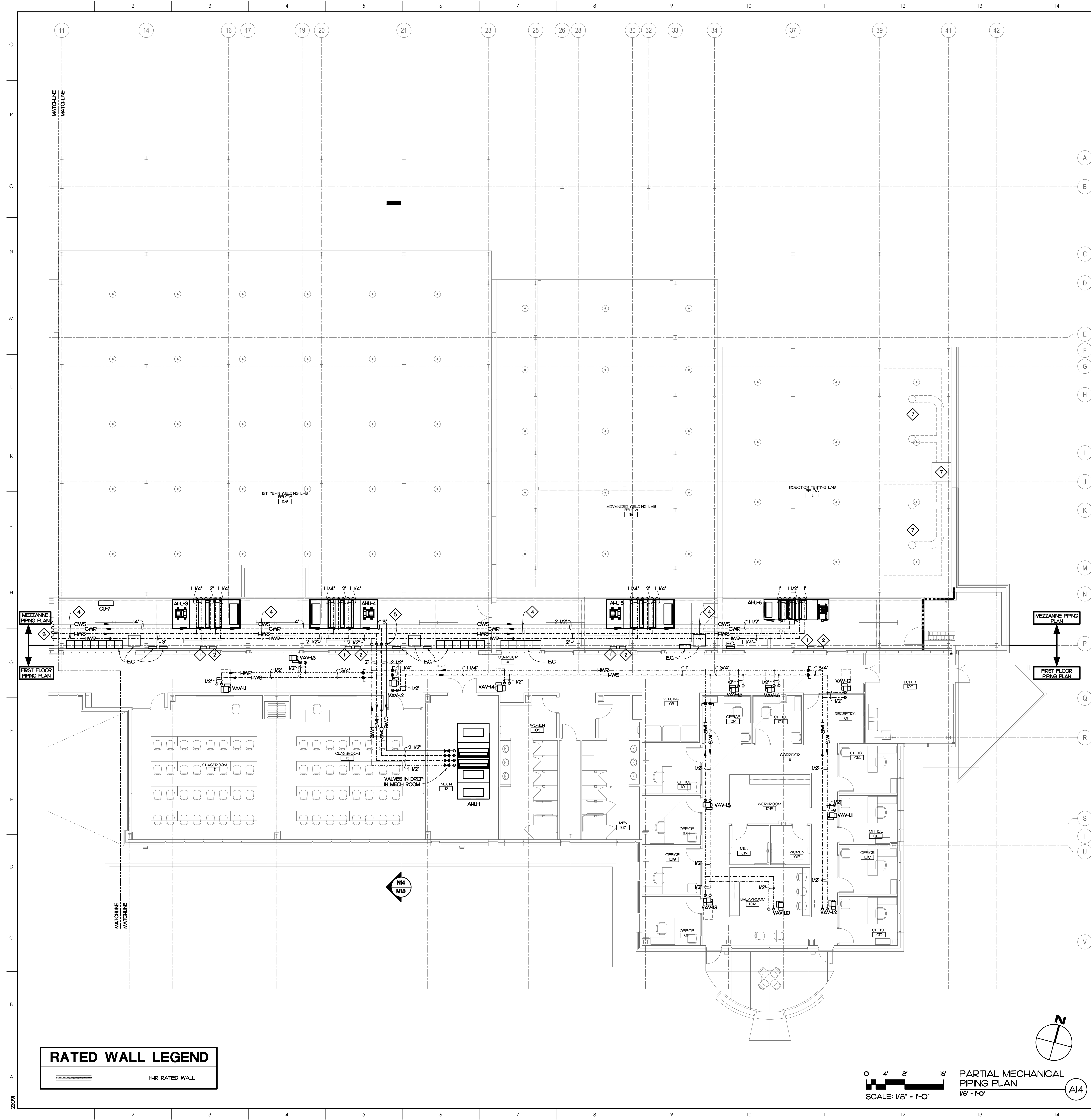
J K F
 ARCHITECTURE

425 LYNDALE CT, SUITE F, GREENVILLE, NC 27658 252.355.1048

PITT COMMUNITY COLLEGE
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 WINTERVILLE, NC

MECHANICAL PLATFORM PLAN

SCALE	1/8" = 1'-0"	DRAWING NO.	MI.3
DRAWN	BWF	CHECKED	BWF
DATE	2-15-2024	PROJECT NO.	2022-07



MECHANICAL KEY NOTES

- 1 AIR HANDLER VARIABLE FREQUENCY DRIVE
- 2 BUILDING AUTOMATION SYSTEM PANEL
- 3 SEE A18/M22 FOR CONTINUATION
- 4 CHILLED/HOT WATER PIPING ROUTED HIGH ABOVE MEZZANINE. SEE N5/M3 AND N4/M3. FIELD COORDINATE EXACT ROUTING HEIGHT.
- 5 CHILLED/HOT WATER PIPING DROP DOWN TO A.F.C. OF CORRIDOR A. SEE N5/M3. FIELD COORDINATE EXACT ROUTING HEIGHT.

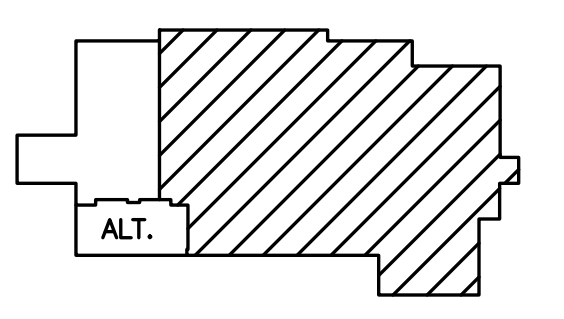
ATLANTEC ENGINEERS, PA
 322 BLUE RIDGE ROAD, SUITE 19
 RALEIGH, NC 27602
 PH 919 578-1111

SEAL: [Signature]
 SEAL: [Signature]

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

J K F
 ARCHITECTURE

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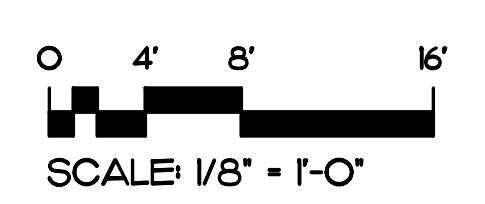
**PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING
 WINTERSVILLE, NC**

PARTIAL MECHANICAL PIPING PLAN

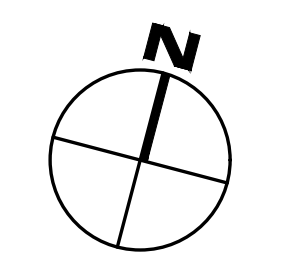
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DRAWN	BWF		
CHECKED	BWF		
DATE	2-15-2024		
PROJECT NO.	2022-07		

RATED WALL LEGEND

[Symbol]	H-R RATED WALL
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PARTIAL MECHANICAL PIPING PLAN
 1/8" = 1'-0"

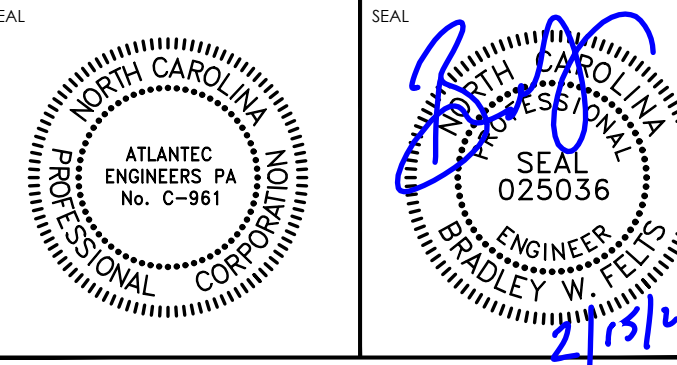


A14

MECHANICAL KEY NOTES

- ◇ AIR HANDLER VARIABLE FREQUENCY DRIVE
- ◇ BUILDING AUTOMATION SYSTEM PANEL
- ◇ SEE A1A/M1 FOR CONTINUATION
- ◇ SEE A1A/M2 FOR CONTINUATION
- ◇ CHILLED/HOT WATER PIPING DROP DOWN TO A.F.C. OF CORRIDOR A. SEE N5/M3. FIELD COORDINATE EXACT ROUTING HEIGHT.

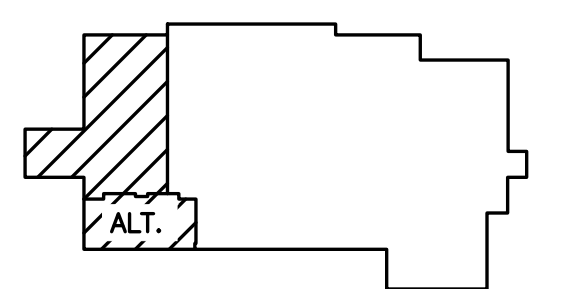
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 322 BLUE RIDGE ROAD, SUITE 19
 RALEIGH, NC 27602
 P# 099 5788



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

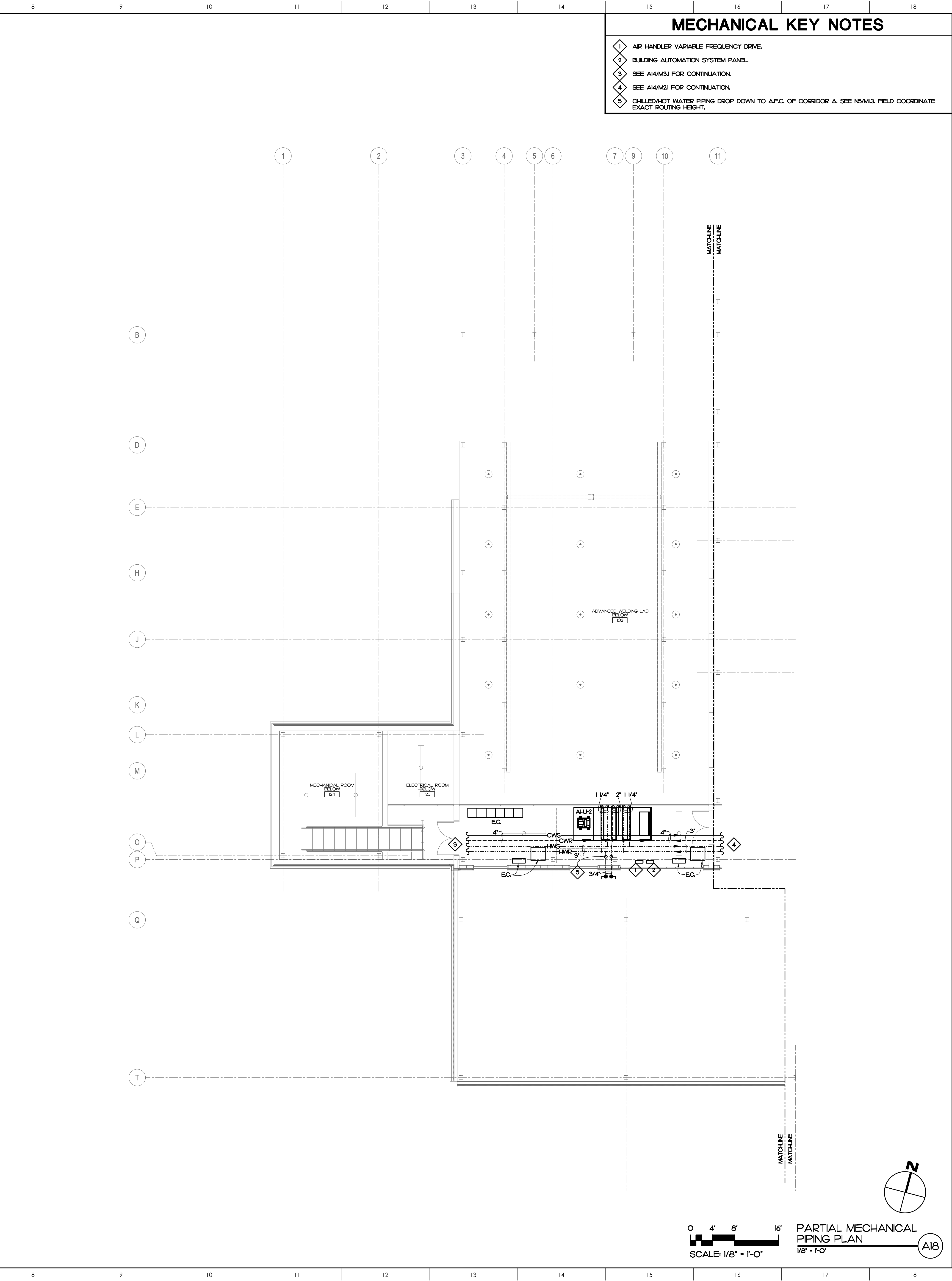
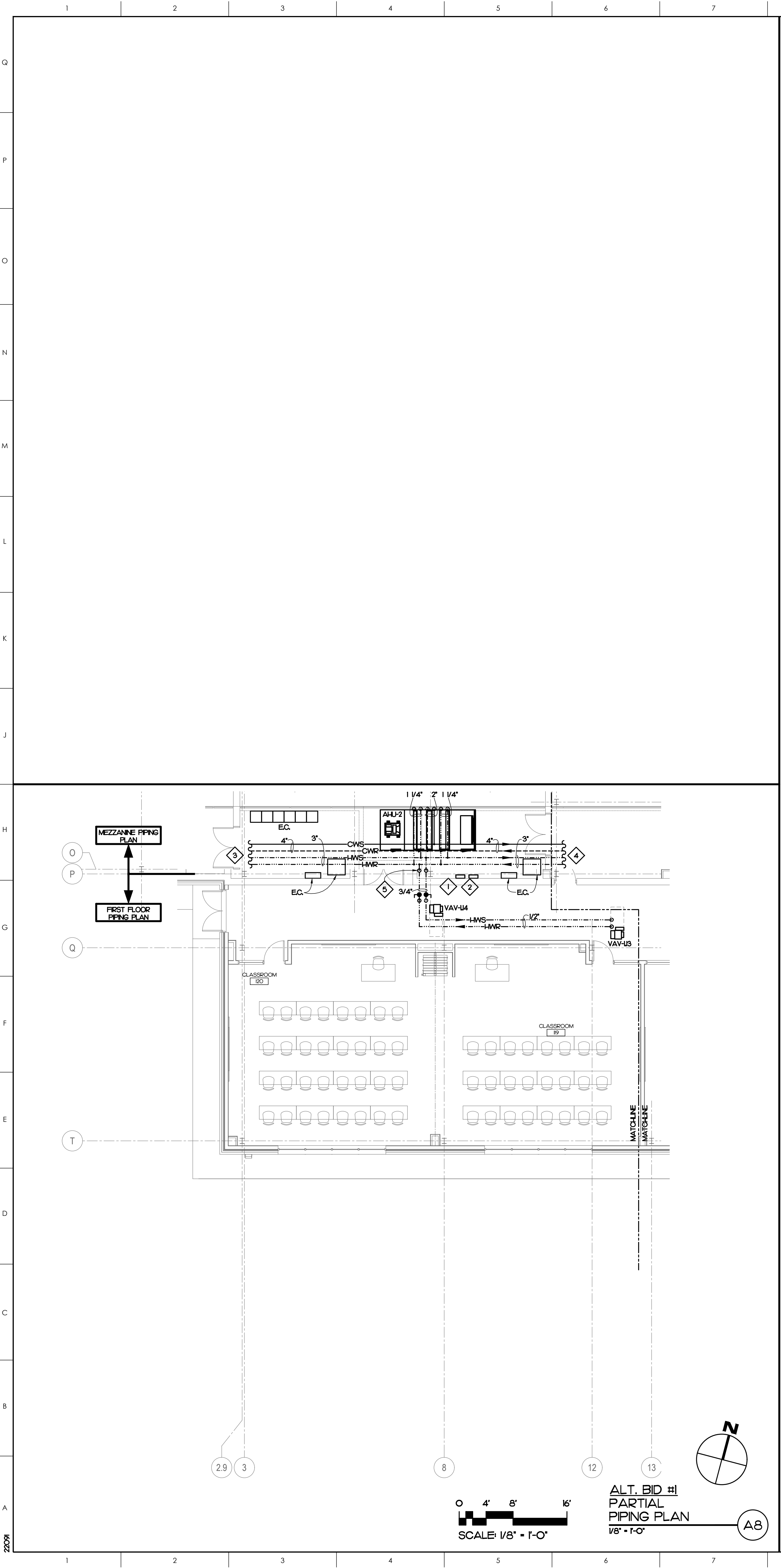
JKF
 ARCHITECTURE

425 LYNDALE CT, SUITE F, GREENVILLE, NC 27608 252.355.1048

**PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING
 WINTERSVILLE, NC**

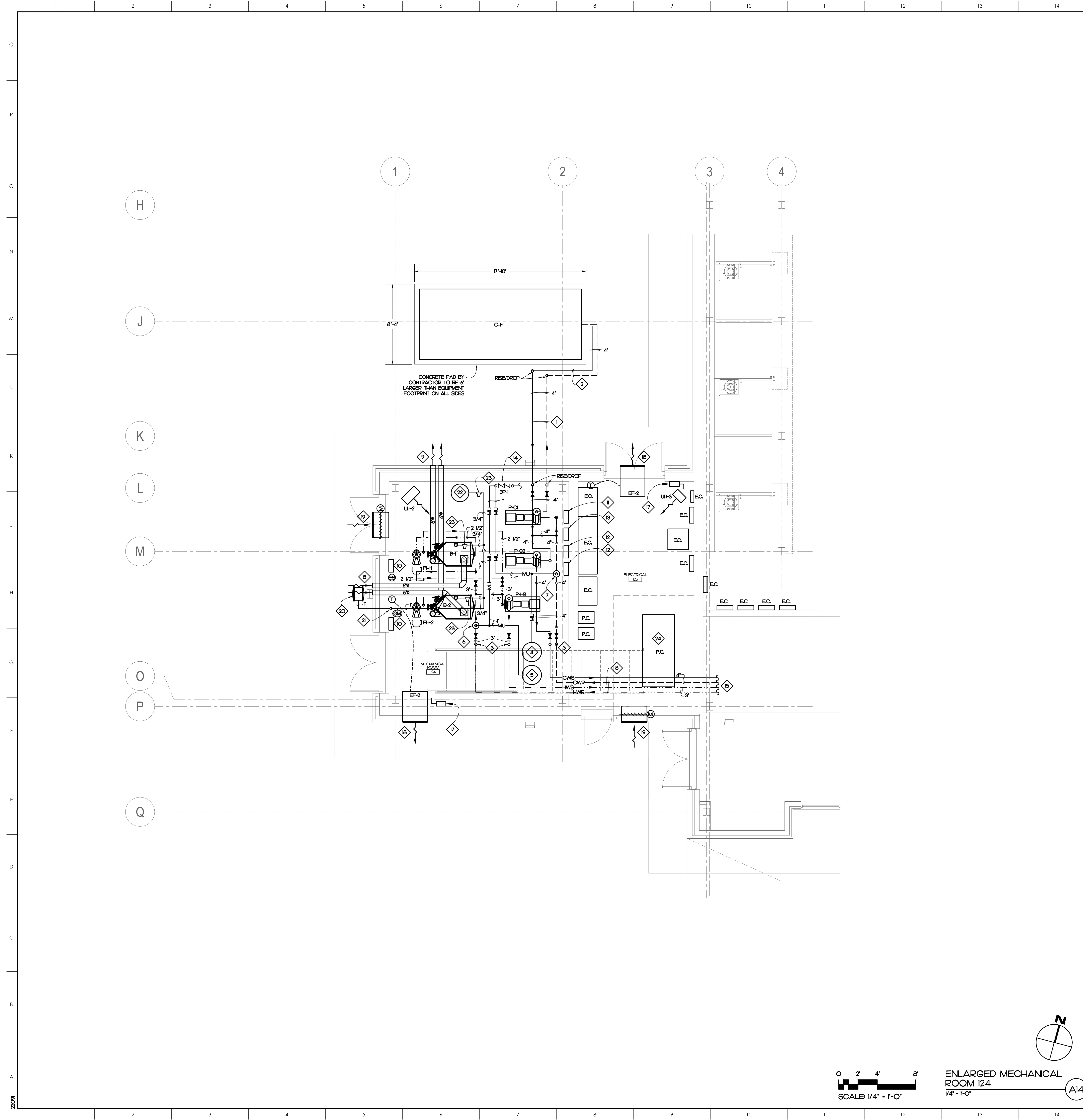
PARTIAL MECHANICAL PIPING PLAN

SCALE 1/8" = 1'-0"	DRAWING NO. M2.2
DRAWN BWF	CHECKED BWF
DATE 2-15-2024	PROJECT NO. 2022-07



ALT. BID #1
 PARTIAL
 PIPING PLAN
 1/8" = 1'-0" **A8**

PARTIAL MECHANICAL
 PIPING PLAN
 1/8" = 1'-0" **A18**



MECHANICAL KEY NOTES

- 1 CHILLED WATER PIPING BELOW FINISHED GRADE.
- 2 4" CHILLED WATER ABOVE FINISHED GRADE. HEAT TRACE ALL EXTERIOR PIPING ABOVE GRADE TO/FROM CHILLER WITH 30 WATT/FOOT AT 120 VOLT. SEE DETAIL N5M41.
- 3 CHILLED/HOT WATER PIPING RISE TO STRUCTURE.
- 4 PROVIDE 23 GALLON FULL ACCEPTANCE BLADDER TYPE CHILLED WATER EXPANSION TANK FOR 100 GALLON SYSTEM CAPACITY, 40-100 DEGREE OPERATING TEMPERATURE RANGE AND MAX DESIGN PRESSURE OF 50 PSIG. MOUNT UNDER STAIRS.
- 5 PROVIDE 23 GALLON FULL ACCEPTANCE BLADDER TYPE HOT WATER EXPANSION TANK FOR 400 GALLON SYSTEM CAPACITY, 50-160 DEGREE OPERATING TEMPERATURE RANGE AND MAX DESIGN PRESSURE OF 50 PSIG. MOUNT UNDER STAIRS.
- 6 PROVIDE 3" AIR SEPARATOR.
- 7 PROVIDE 4" AIR SEPARATOR.
- 8 ROUTE 6" BOILER INTAKE DUCT TO SIDEWALL AND TERMINATE WITH WALL CAP. INSTALL IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS.
- 9 ROUTE 6" BOILER FLUE VENT DUCT TO SIDEWALL AND TERMINATE WITH WALL CAP. INSTALL IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS.
- 10 STARTER FOR B1 AND B-2.
- 11 STARTER FOR P-C1.
- 12 VARIABLE FREQUENCY DRIVE FOR P-C2 AND P-H2.
- 13 BUILDING AUTOMATION SYSTEM PANEL.
- 14 MAKE-UP WATER ASSEMBLY. SEE PLUMBING PLANS FOR PIPING AND BACKFLOW DETAIL.
- 15 SEE A18M22 FOR CONTINUATION.
- 16 CHILLED/HOT WATER PIPE ROUTED TIGHT TO STRUCTURE.
- 17 STARTER FOR EF-2.
- 18 SIDEWALL EXHAUST FAN WITH LOUVER. SEE DETAIL A14M22.
- 19 PROVIDE 32x22 INTAKE LOUVER/DAMPER FOR 100 CFM AND 32 SQFT OF FREE AREA. PROVIDE WITH 24V ACTUATOR. PROVIDE WITH KYNAR FINISH AND BIRD SCREEN.
- 20 NEW GAS METER BY LOCAL UTILITY CONTRACTOR. PIPE SIZED BASED ON TOTAL LOAD OF 1750 MBH * 2 PSI TOTAL DEVELOPED LENGTH OF 107', AND NCGC TABLE 402.4(B).
- 21 1" GAS RISE TO STRUCTURE.
- 22 250 MBH WATER HEATER. SEE PLUMBING PLANS FOR DETAILS. M.C. TO MAKE FINAL CONNECTION AND PROVIDE WITH BALL VALVE, DRY LEG, AND REGULATOR. PROVIDE HOT WATER SUPPLY TEMPERATURE SENSOR AND HOT WATER RETURN PUMP START/STOP. SEE P12 FOR SENSOR AND PUMP LOCATION.
- 23 GAS REGULATOR. 20 PSI -> 0.5 PSI.
- 24 PROVIDE COMPRESSED AIR LINE PRESSURE MONITOR SENSOR AND CT TO MONITOR COMPRESSOR OPERATION. SEE PLUMBING PLANS FOR PIPING.

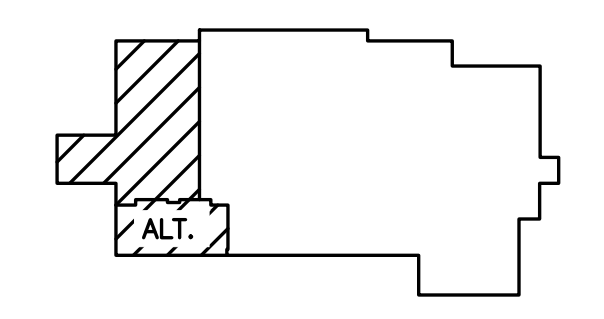
ATLANTEC ENGINEERS, PA
 322 BLUE RIDGE ROAD, SUITE 19
 RALEIGH, NC 27612
 PH 919 578-1111

SEAL: [Signature]
 ATLANTEC ENGINEERS, PA
 No. C-361
 No. 025036
 7/25/24

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

SEAL: [Signature]

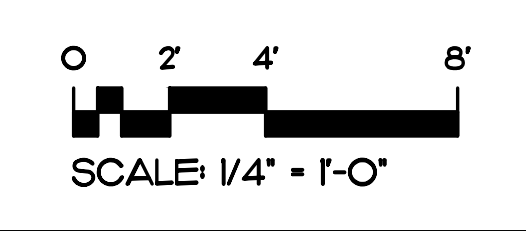
J K F
 ARCHITECTURE

425 LYNDALE CT, SUITE F, GREENVILLE, NC 27658 252.355.1048

**PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING
 WINTERVILLE, NC**

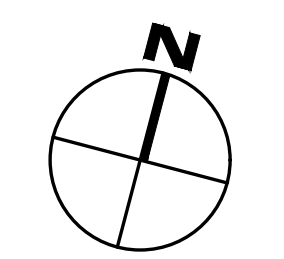
ENLARGED MECHANICAL PLAN

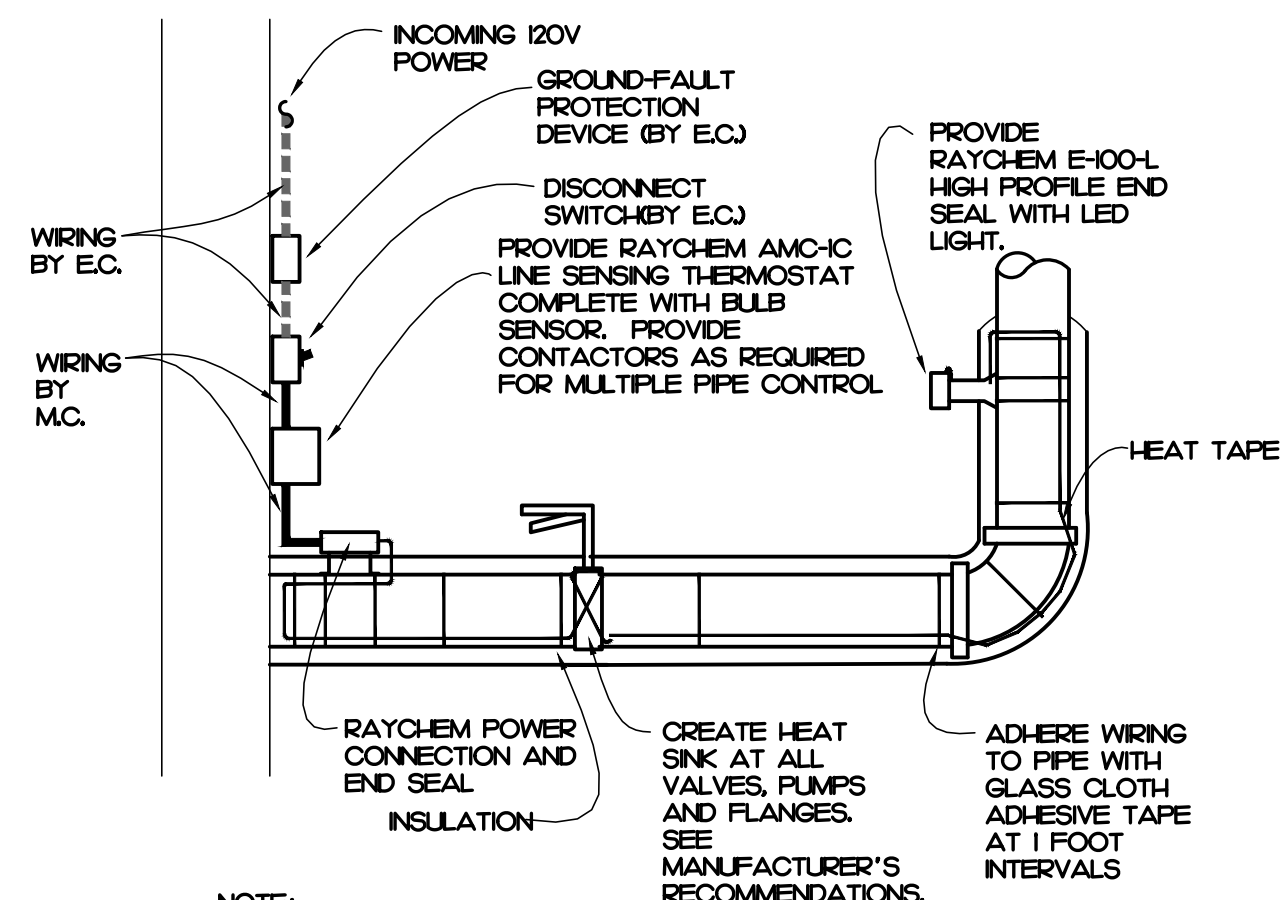
SCALE	1/4" = 1'-0"	DRAWING NO.	M3.1
DRAWN	BWF		
CHECKED	BWF		
DATE	2-15-2024		
PROJECT NO.	2022-07		



**ENLARGED MECHANICAL
 ROOM 124
 1/4" = 1'-0"**

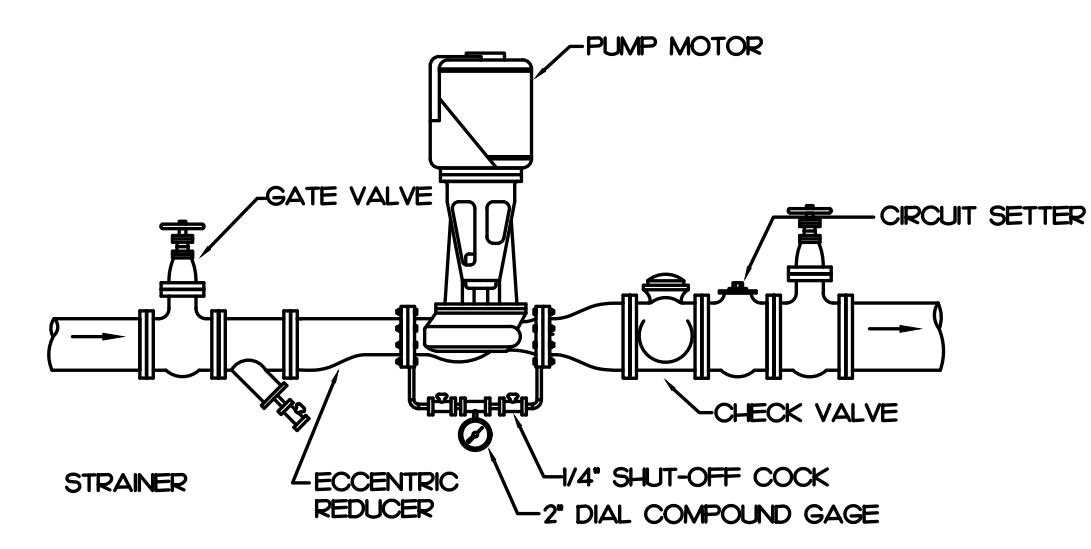
A14



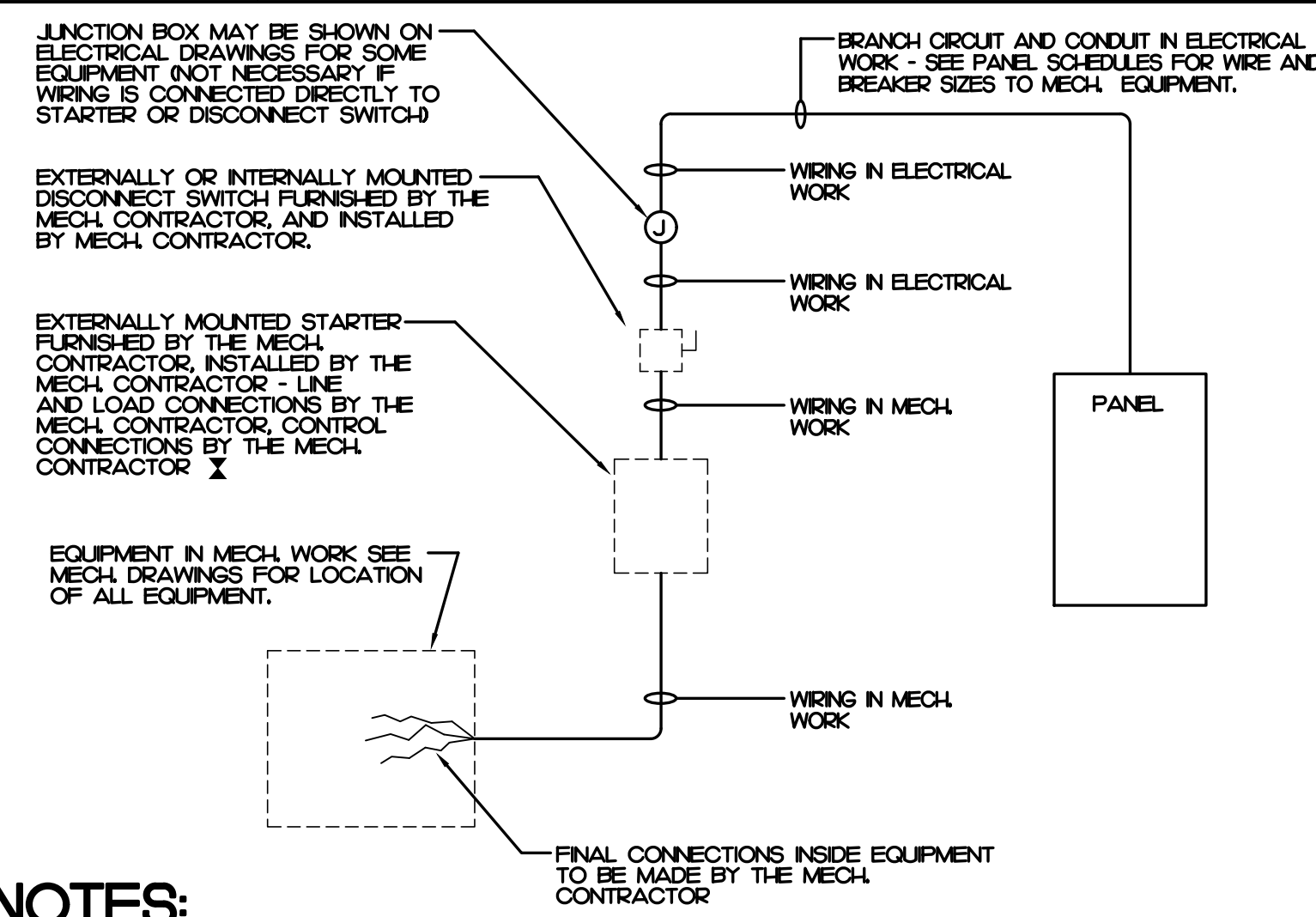


NOTE:
 1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
 2. HEAT TAPE TO BE RAYCHEM SBTV-CR, 3 WATTS/FOOT, 120V.
 3. INSTALL ON ALL EXTERIOR PIPING ABOVE GRADE.

HEAT TRACE DETAIL
 NOT TO SCALE (N5)



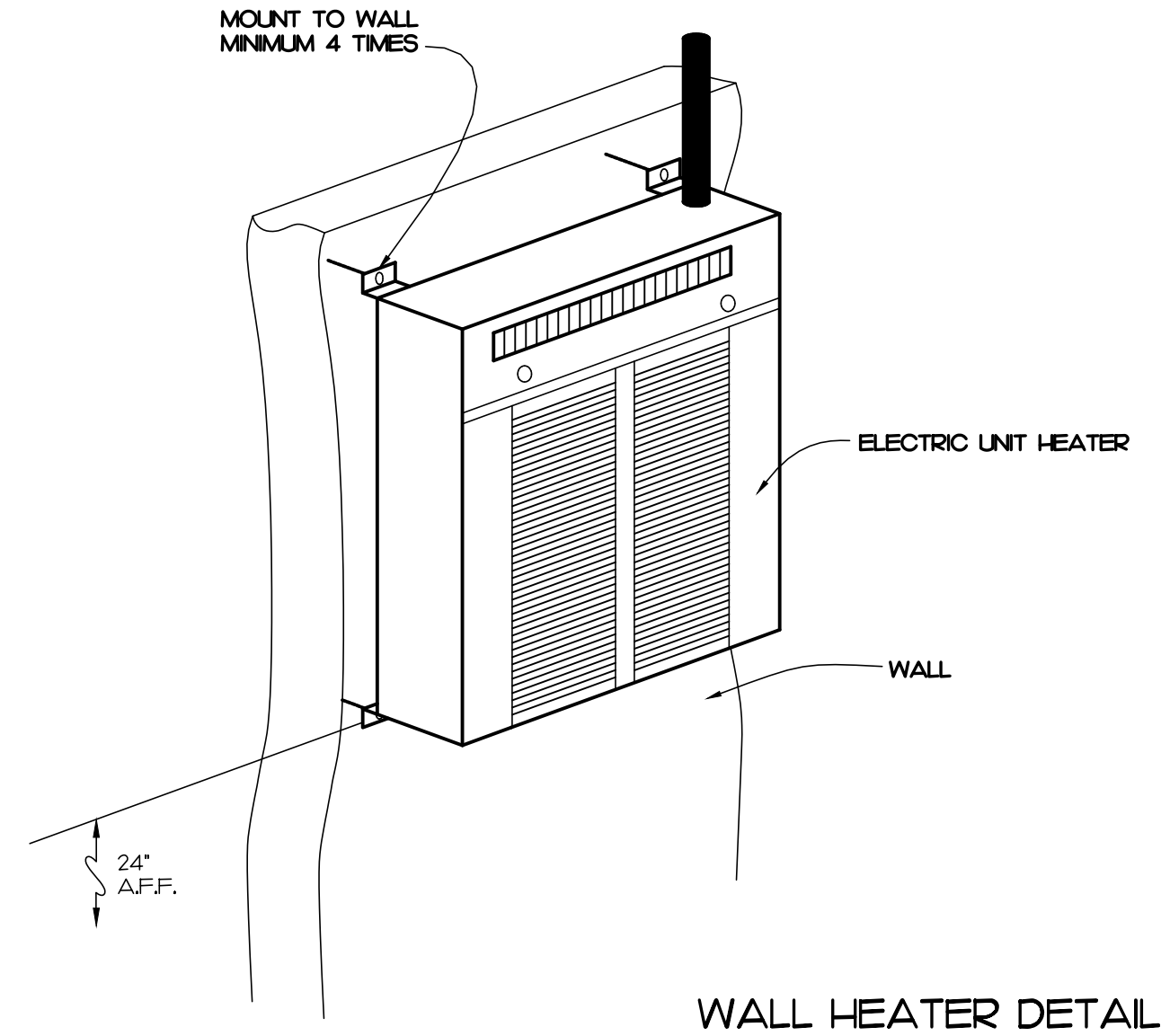
INLINE PUMP DETAIL
 NOT TO SCALE (N9)



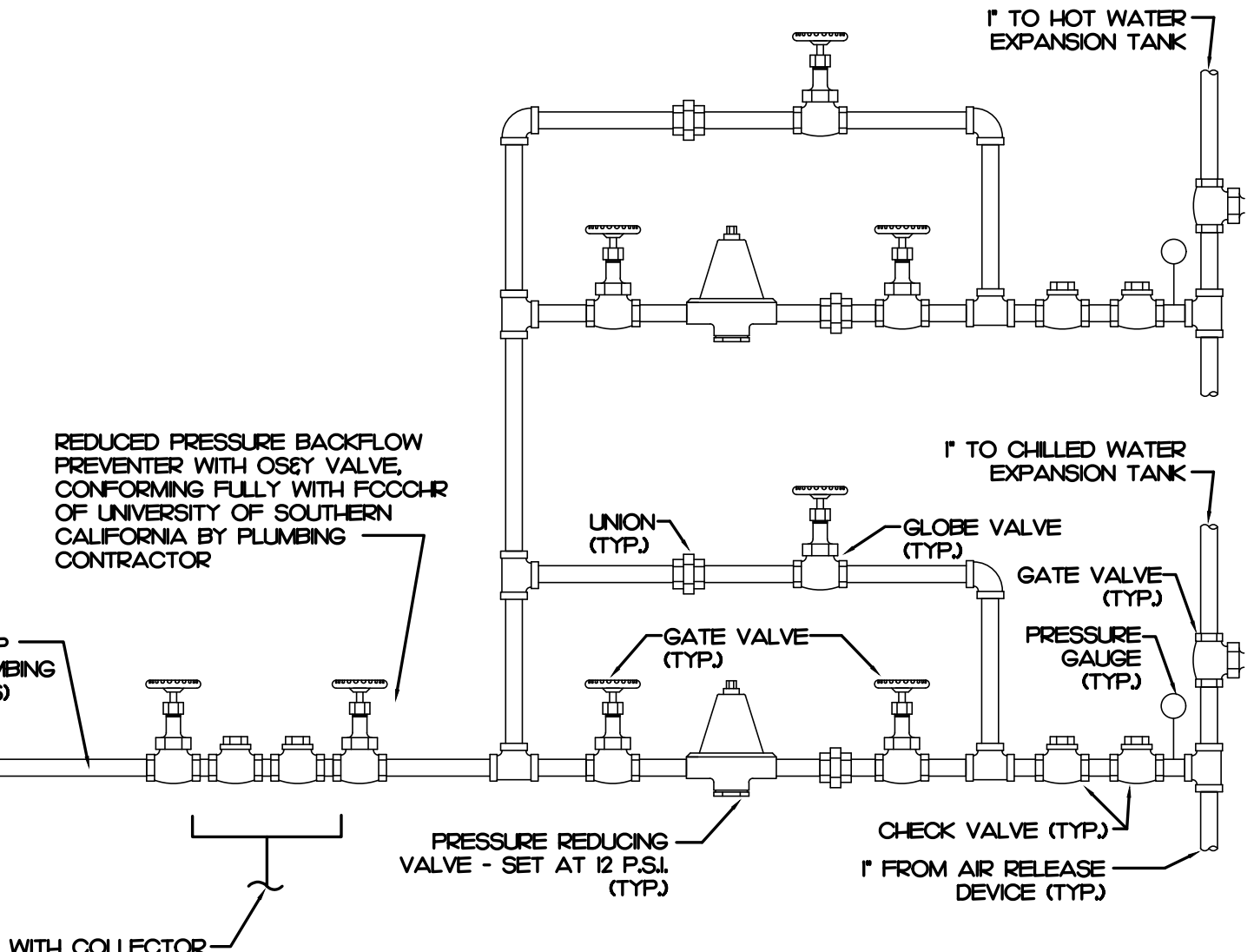
NOTES:

- 1. A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER.
- 2. E.C. SHALL FURNISH ALL REQUIRED FUSES.

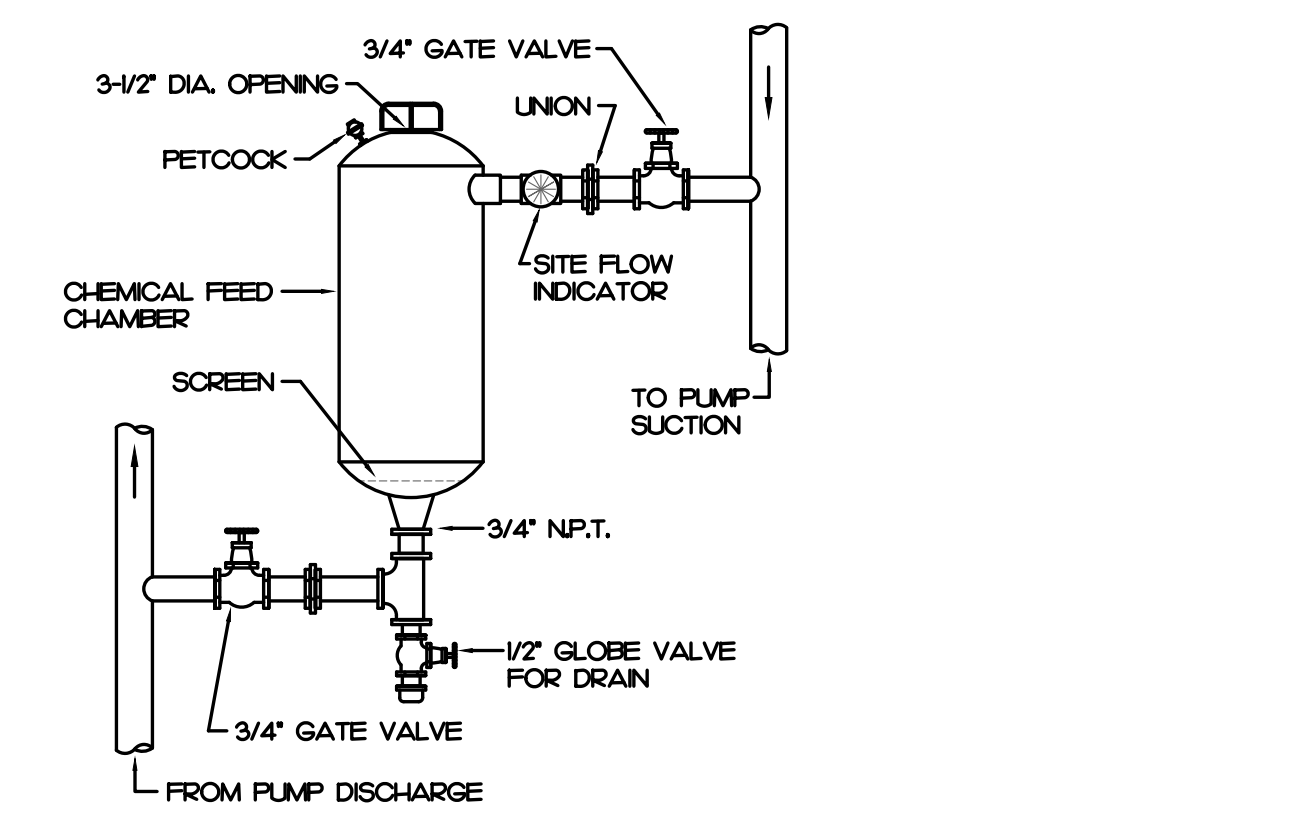
TYPICAL WIRING DETAIL
 NOT TO SCALE (N14)



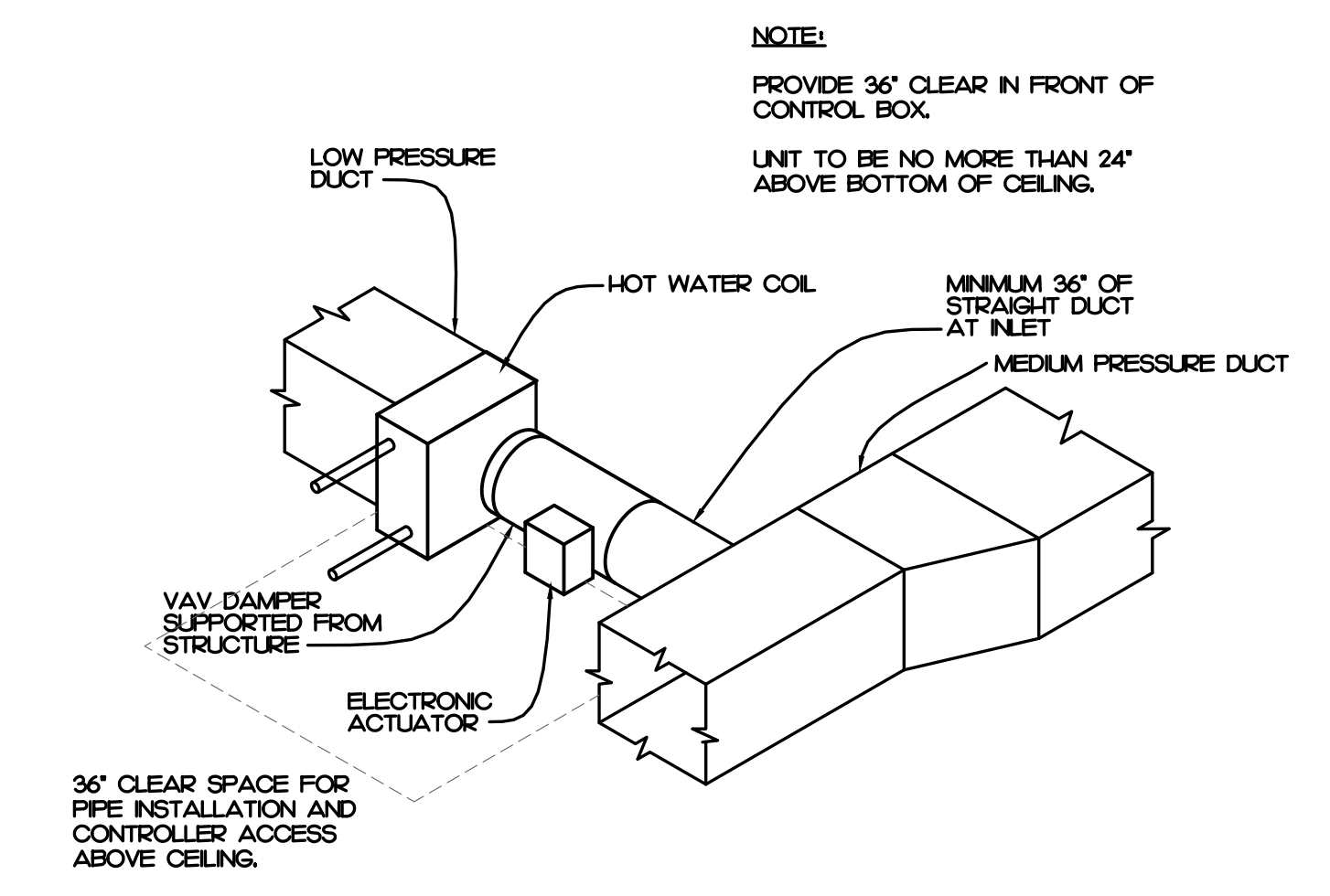
WALL HEATER DETAIL
 NOT TO SCALE (N18)



MAKE-UP WATER ASSEMBLY DETAIL
 NOT TO SCALE (J5)

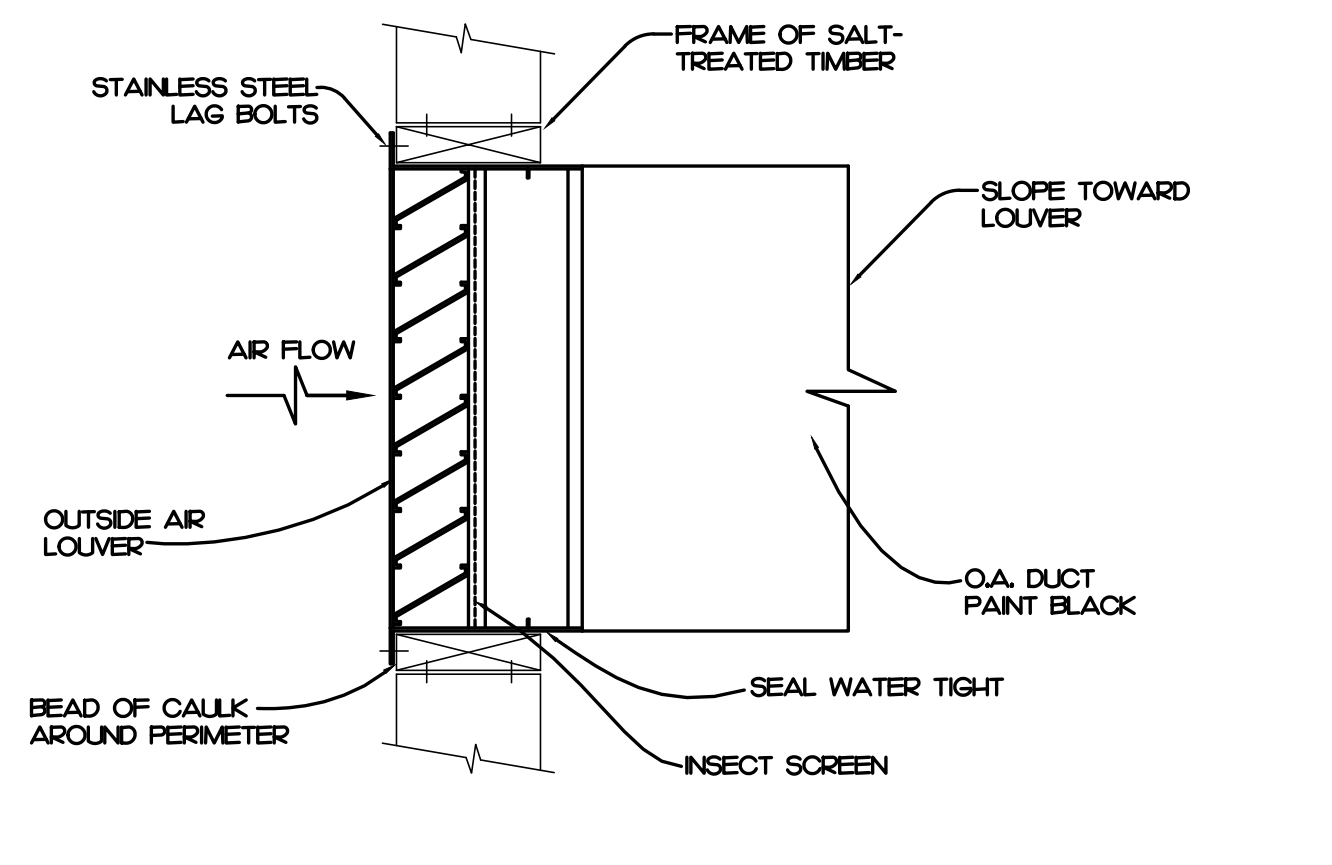


SHOT FEEDER DETAIL
 NOT TO SCALE (J9)



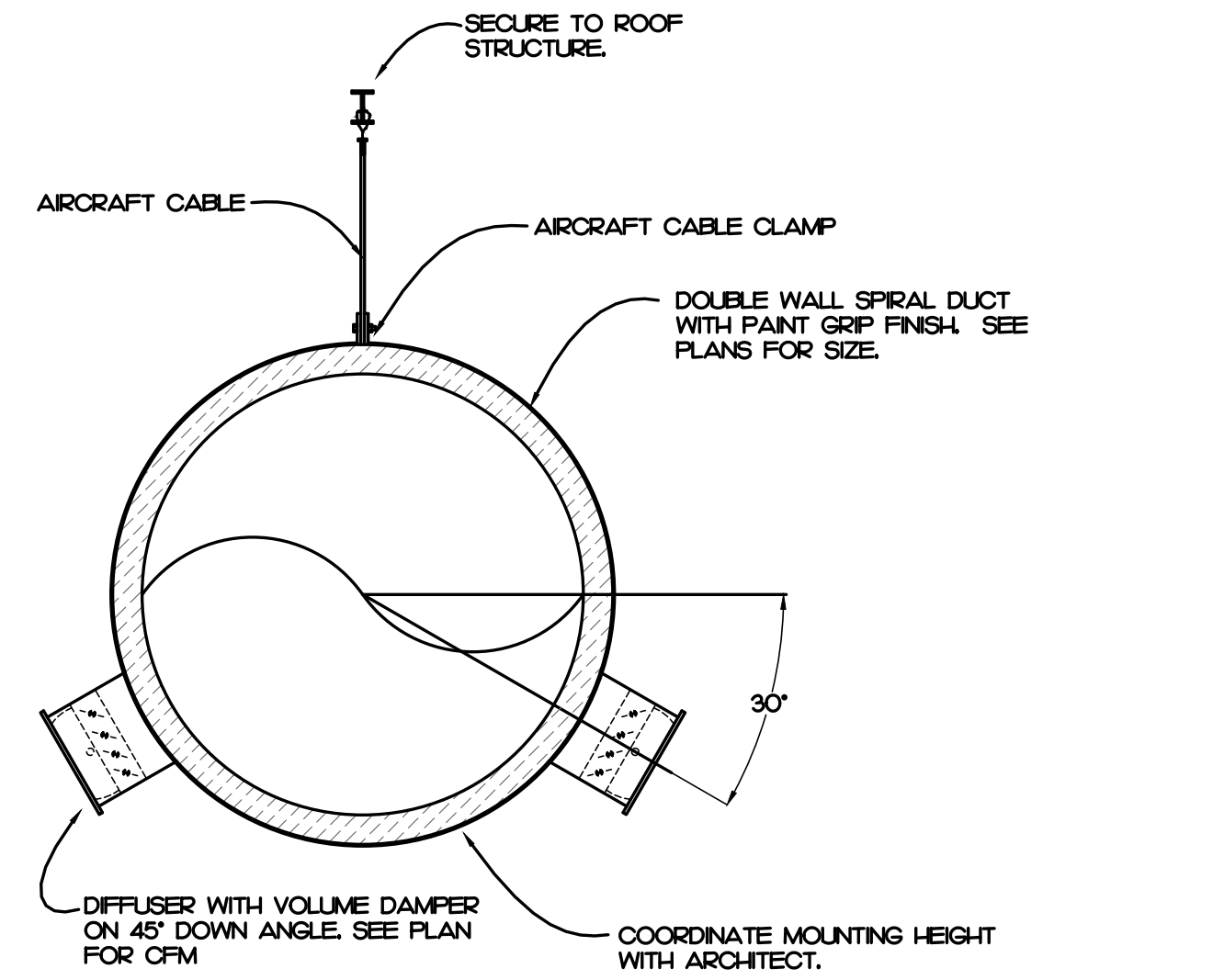
NOTE:
 PROVIDE 36" CLEAR IN FRONT OF CONTROL BOX.
 UNIT TO BE NO MORE THAN 24" ABOVE BOTTOM OF CEILING.

HOT WATER VAV TERMINAL DETAIL
 NOT TO SCALE (J14)

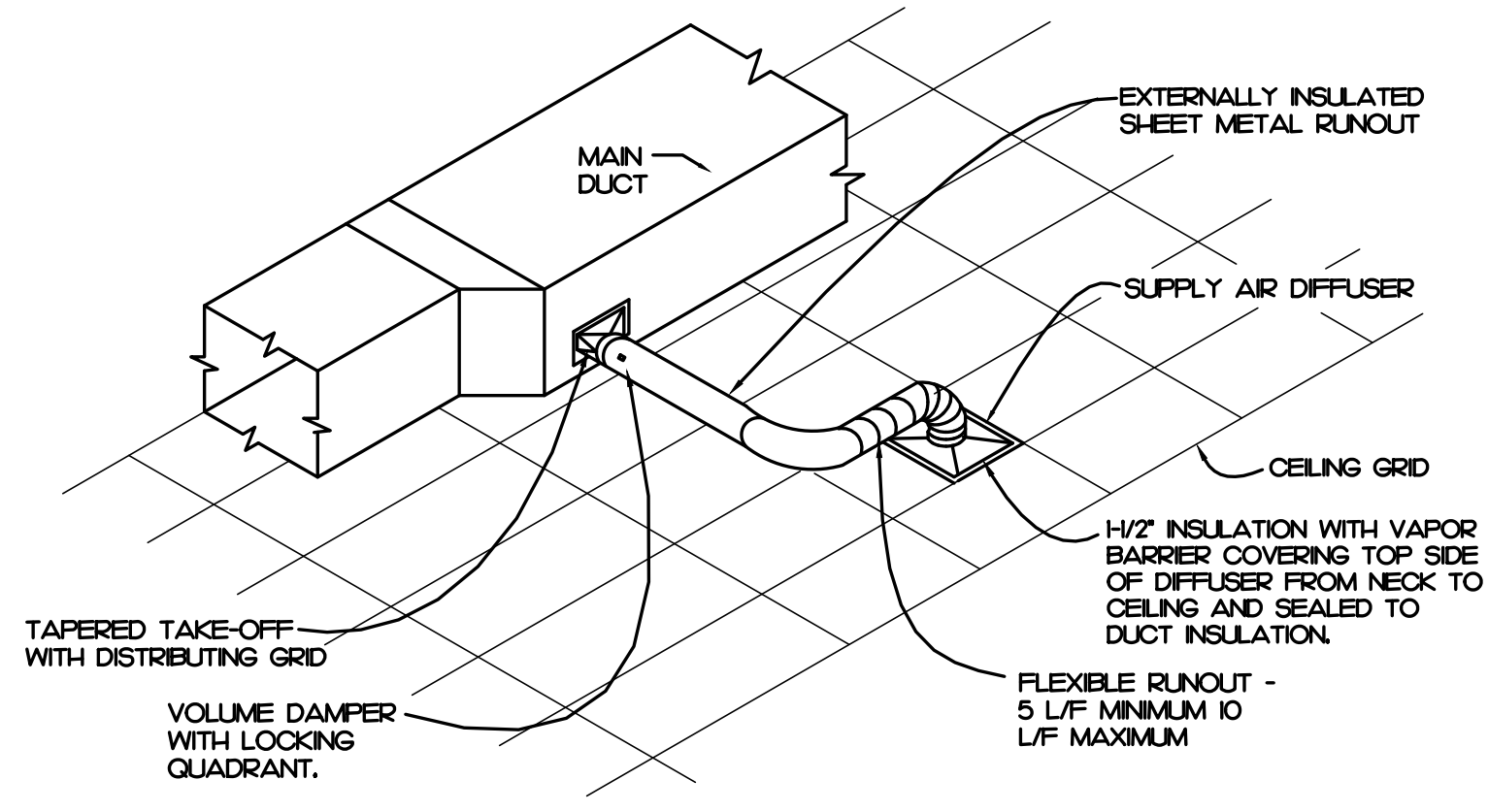


NOTE: OPENING AND FRAME PROVIDED BY THE G.C.

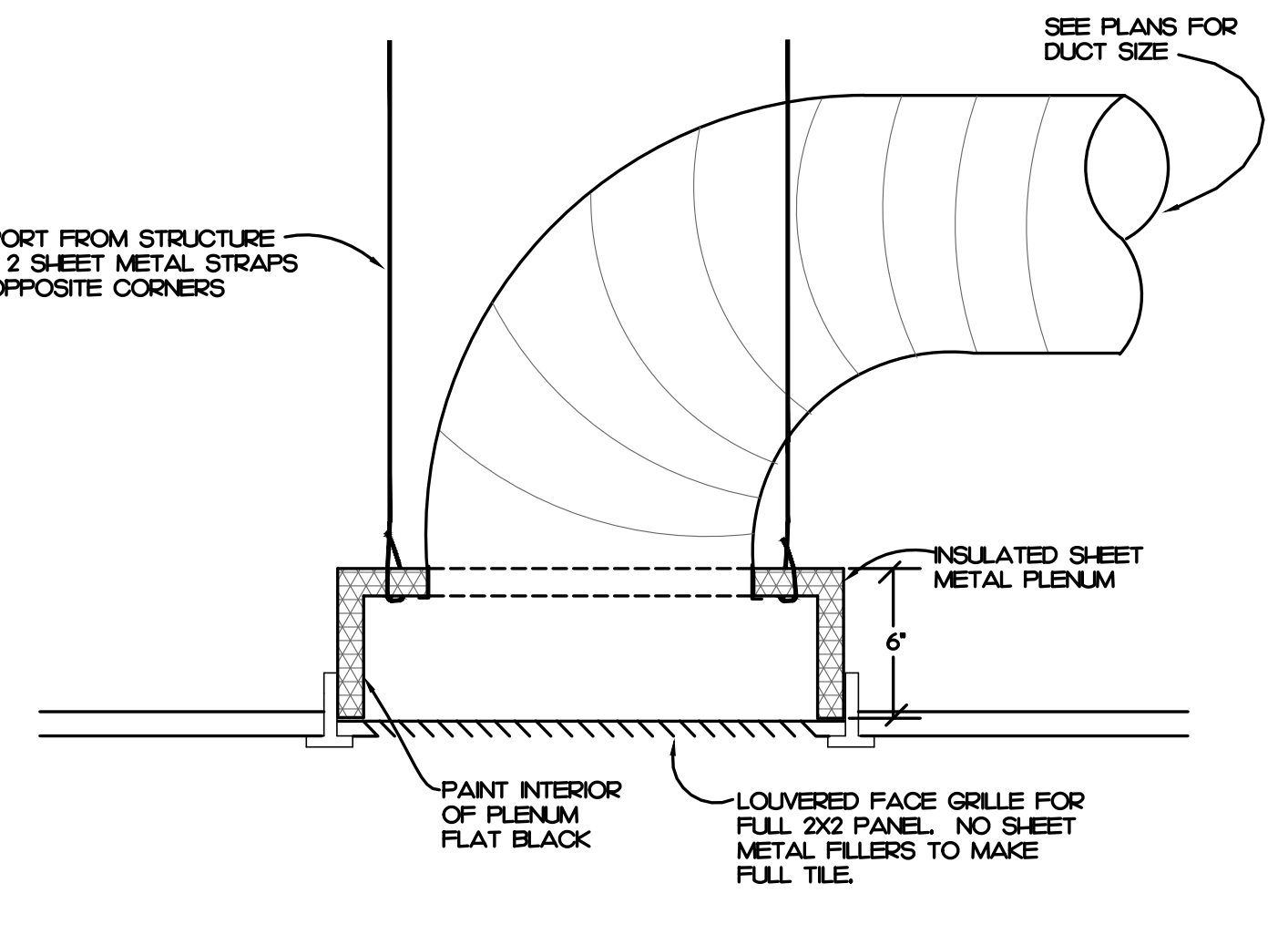
LOUVER DETAIL
 NOT TO SCALE (J18)



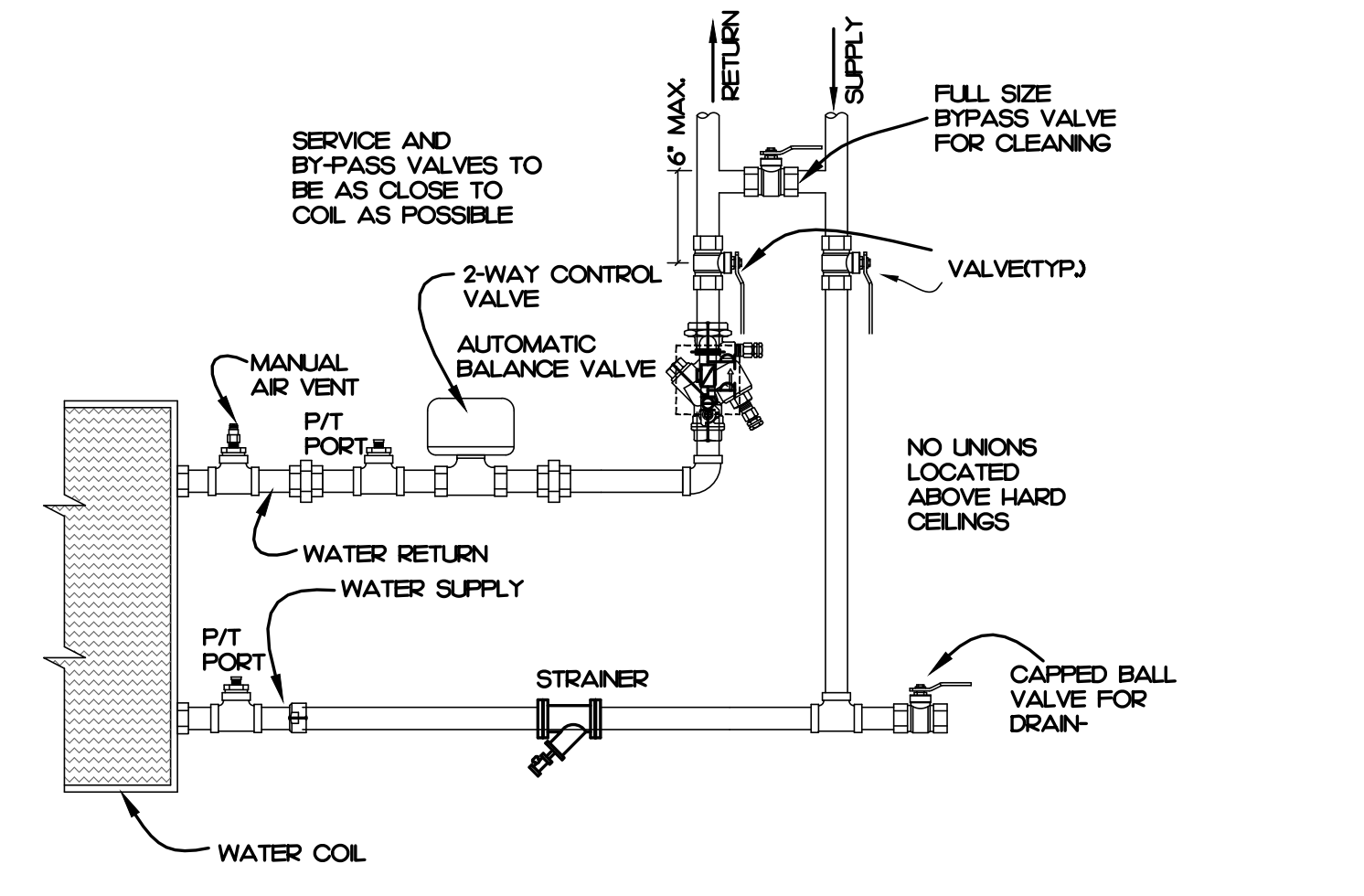
EXPOSED SPIRAL DUCTWORK DETAIL
 NOT TO SCALE (E5)



LAY-IN DIFFUSER DETAIL
 NOT TO SCALE (E9)

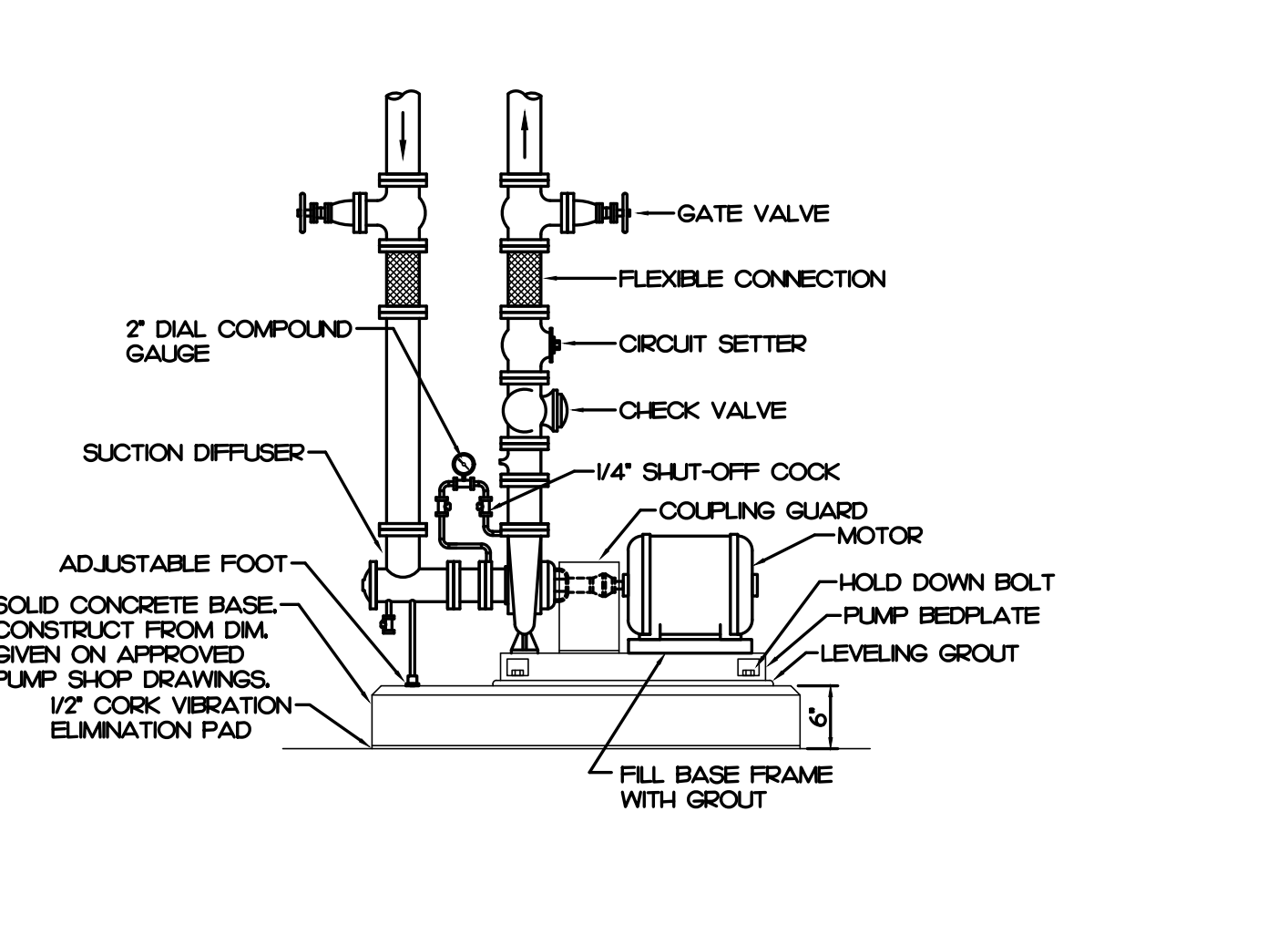


RETURN GRILLE DETAIL
 NOT TO SCALE (E14)

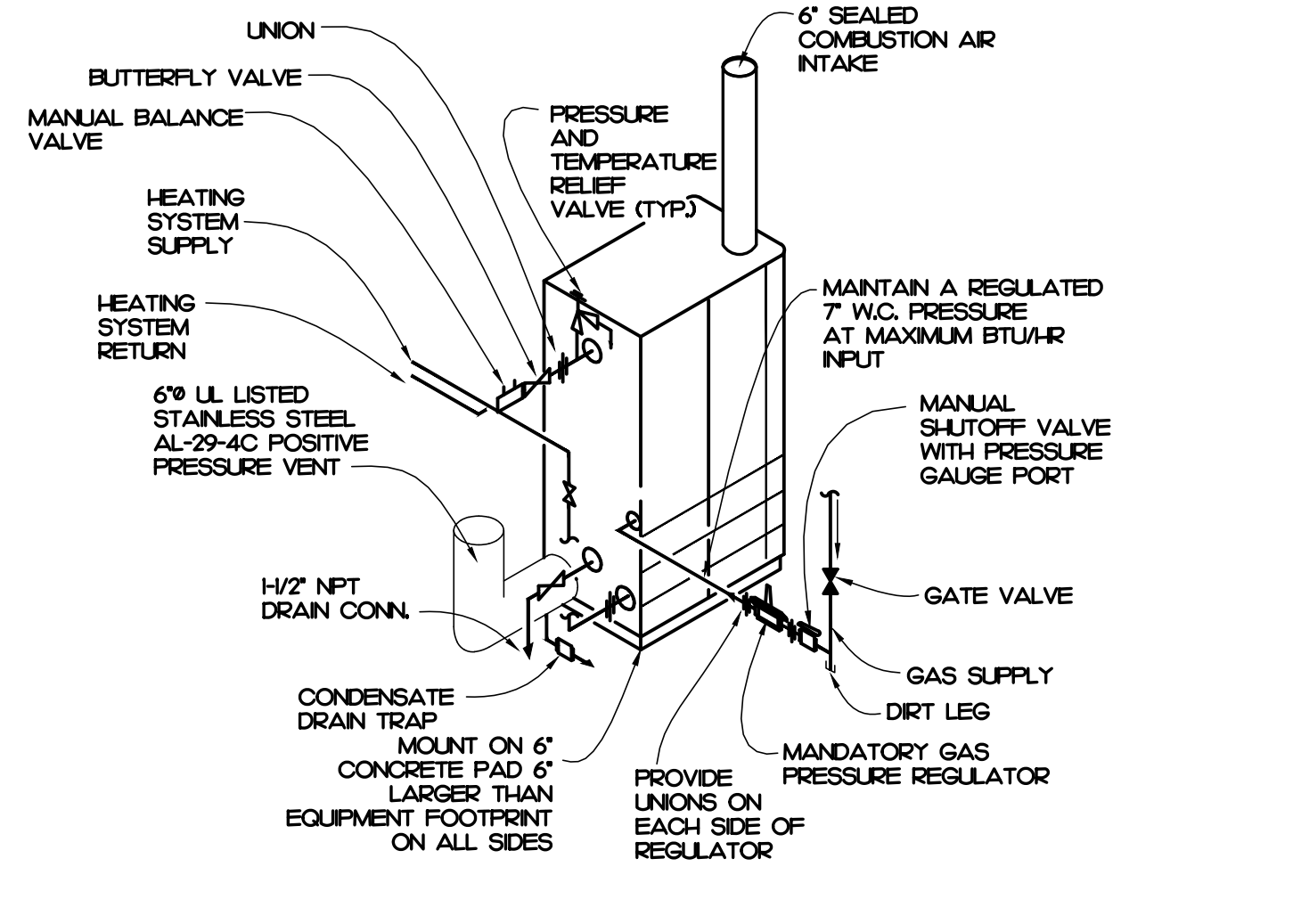


NOTES:
 - INSTALL VALVES MAXIMUM OF 6'-0" AFF. AT AHU AND 2' AFF. AT VAV.
 - INSTALL ALL CONTROL VALVES WITH ACTUATOR MOUNTED DIRECTLY ABOVE VALVE BODY.

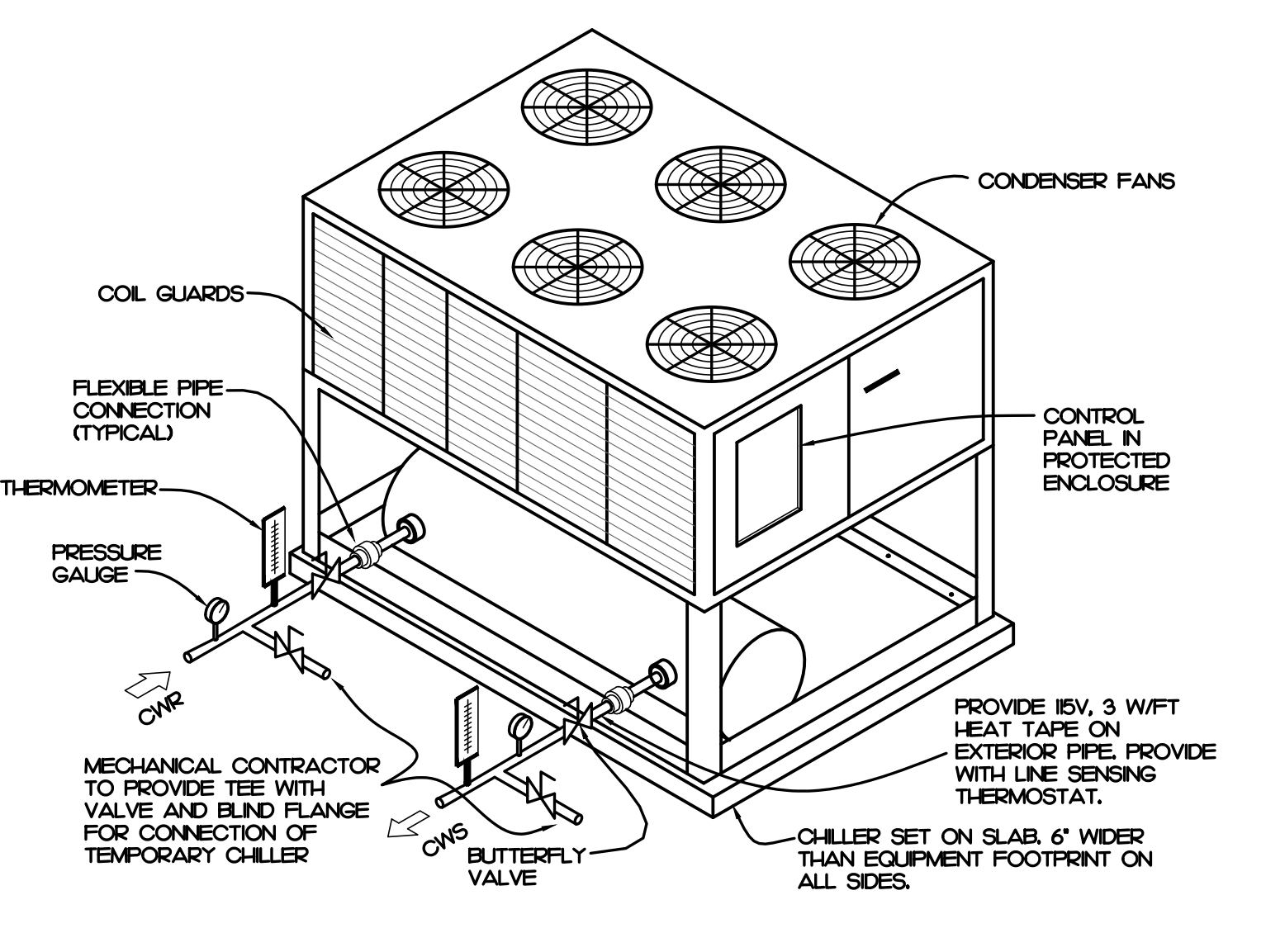
2-WAY VALVE DETAIL
 NOT TO SCALE (E18)



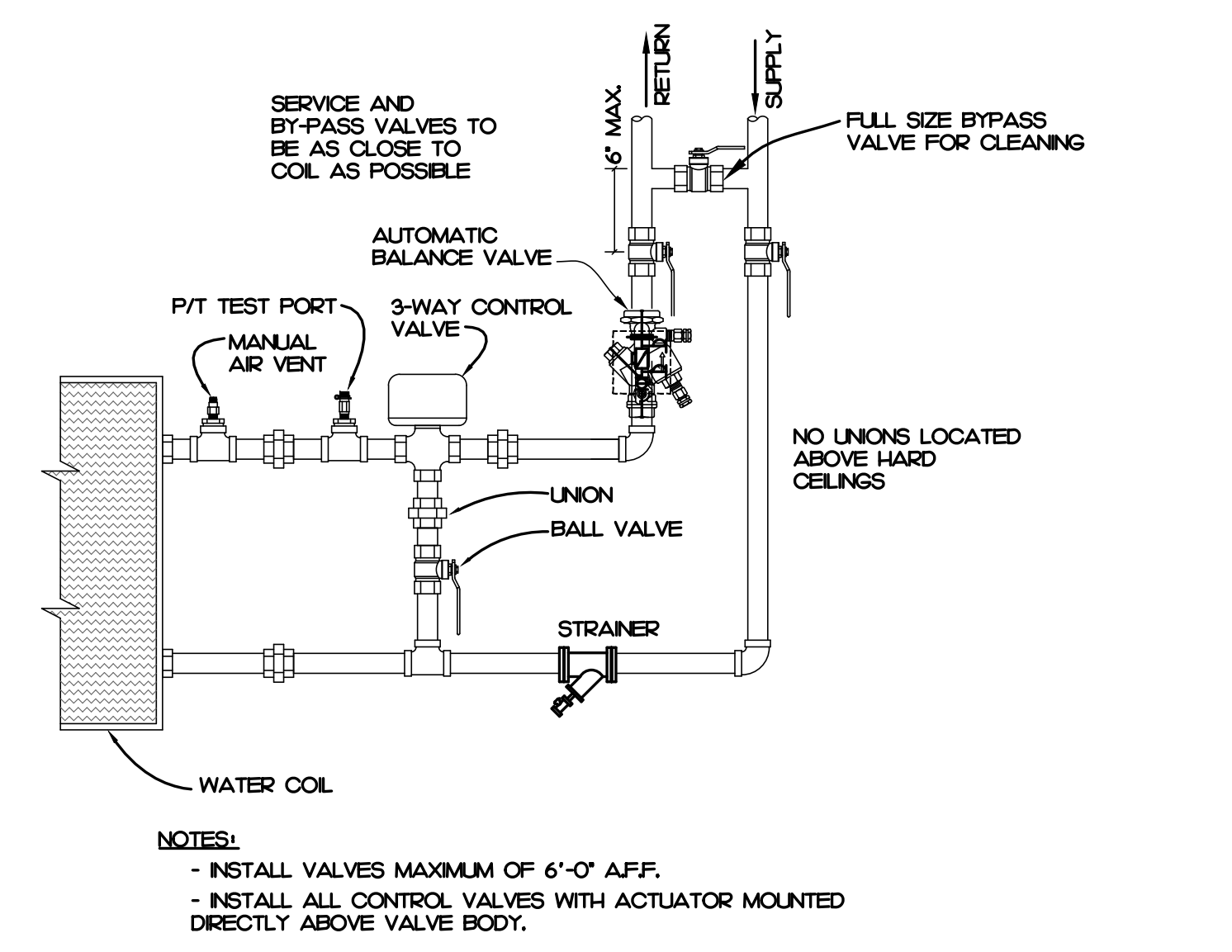
END SUCTION PUMP DETAIL
 NOT TO SCALE (A5)



CONDENSING BOILER DETAIL
 NOT TO SCALE (A9)



AIR COOLED CHILLER DETAIL
 NOT TO SCALE (A14)



NOTES:
 - INSTALL VALVES MAXIMUM OF 6'-0" AFF.
 - INSTALL ALL CONTROL VALVES WITH ACTUATOR MOUNTED DIRECTLY ABOVE VALVE BODY.

3-WAY VALVE DETAIL
 NOT TO SCALE (A18)

ATLANTEC ENGINEERS, PA 2207
 323 BLUE RIDGE ROAD, SUITE 18
 RALEIGH, NC 27602
 PH 919 578-1111

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEERS AND SURVEYORS
 ATLANTIC ENGINEERS, PA
 No. C-961
 025036
 9/2/2024

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO.	REVISION	DATE

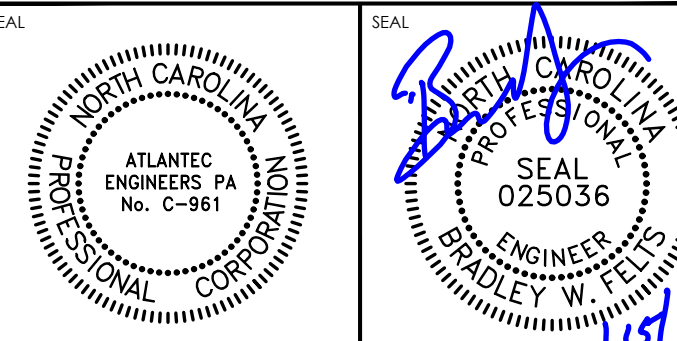
JKF
 ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27639 252-355-1048

PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING
 WINTERVILLE, NC

MECHANICAL DETAILS

SCALE	AS NOTED	DRAWING NO.
DRAWN	BWF	M4.1
CHECKED	BWF	
DATE	2-15-2024	
PROJECT NO.	2022-07	



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO REVISION DATE

JKF
ARCHITECTURE

PITT COMMUNITY COLLEGE
NEW WELLDING BUILDING
WINTERVILLE, NC

MECHANICAL DETAILS

DRAWING TITLE

AS NOTED

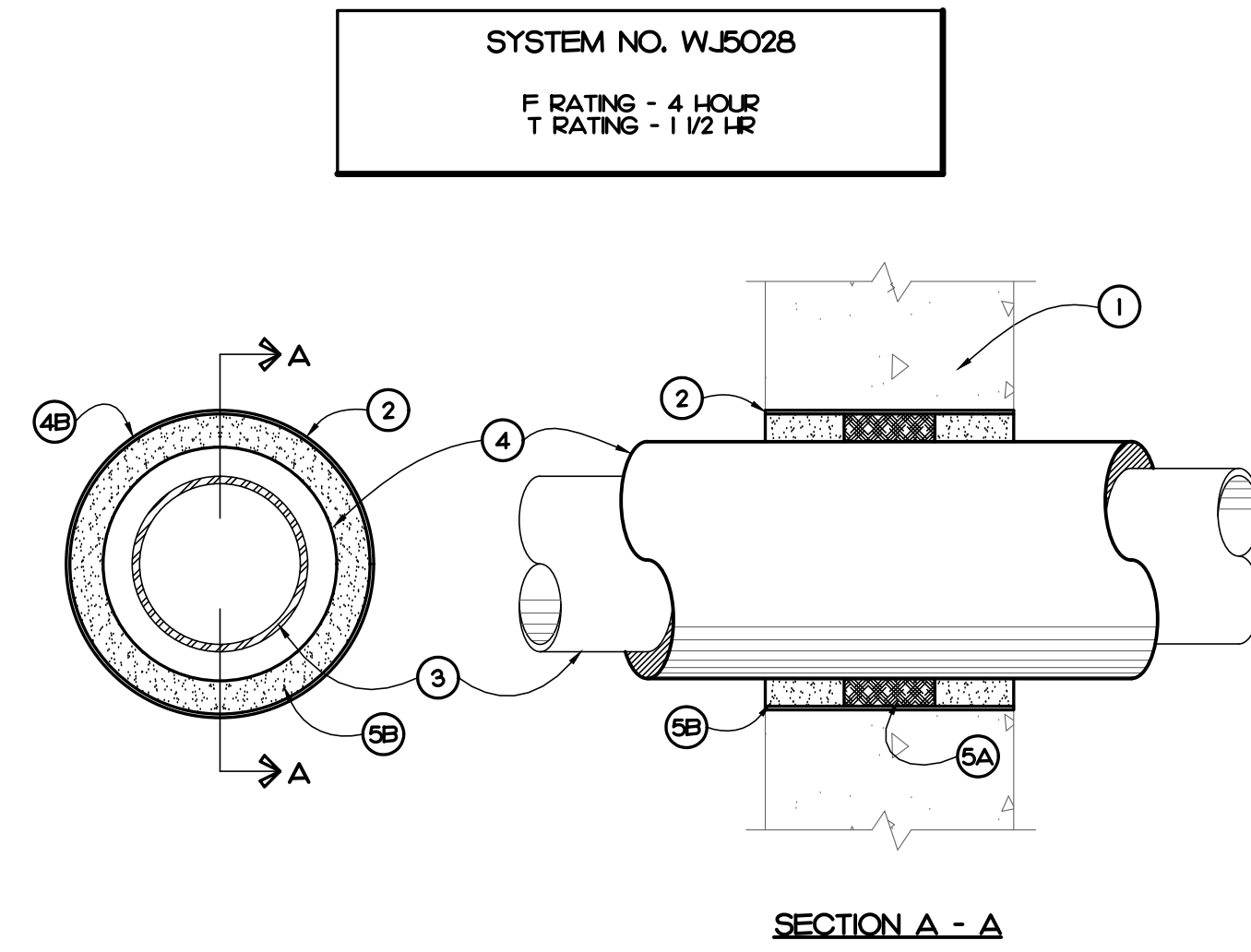
DRAWN BWF

CHECKED BWF

DATE 2-15-2024

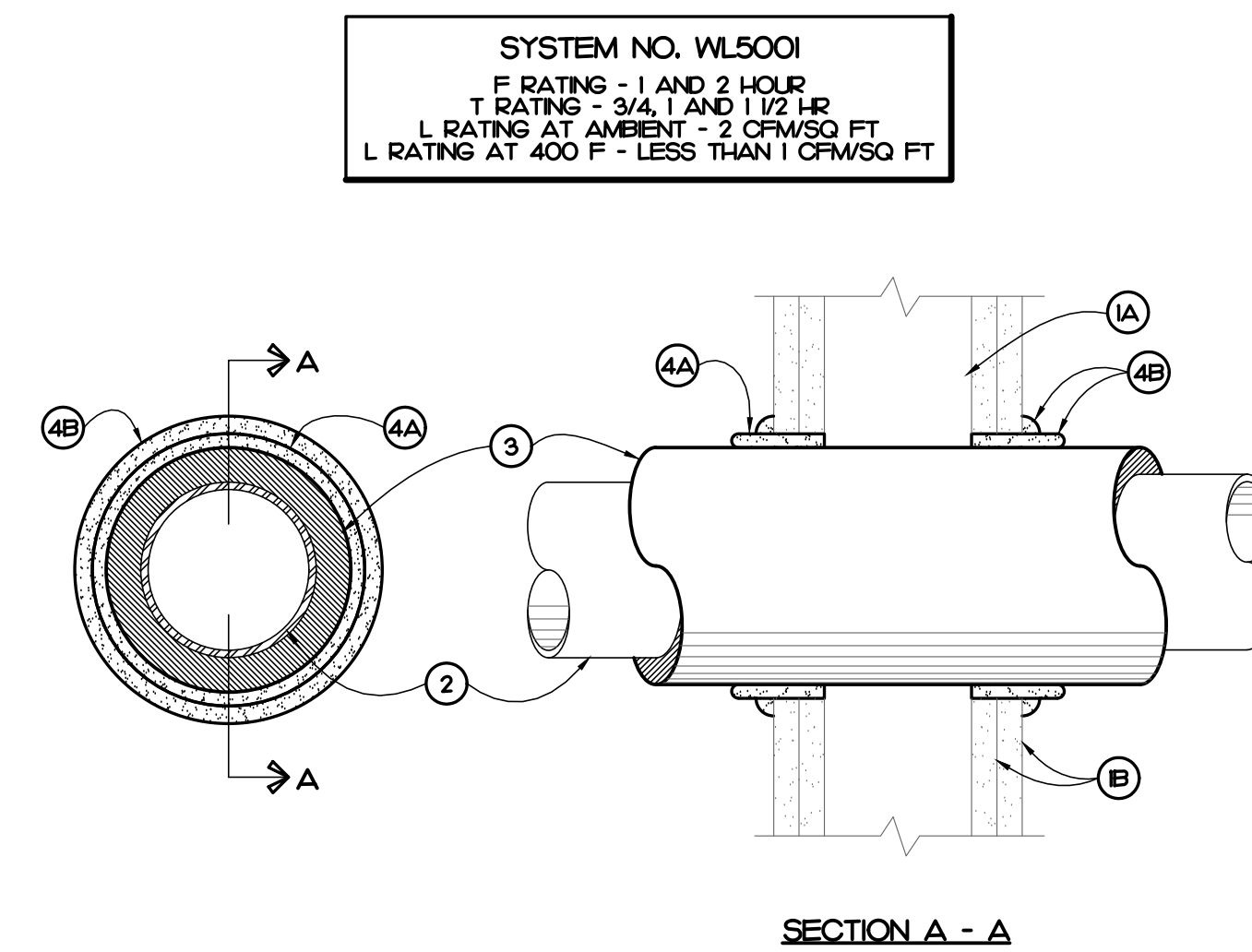
PROJECT NO. 2022-07

M4.2



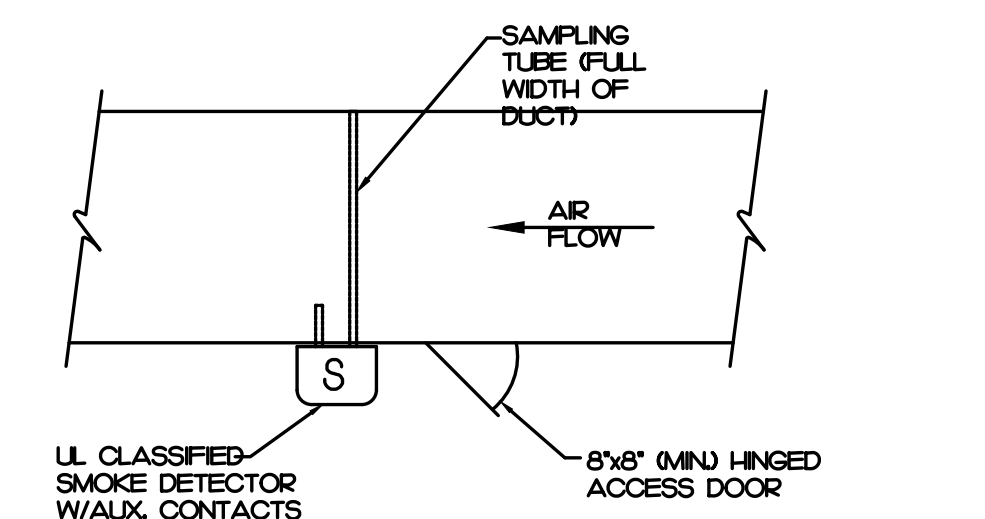
- SYSTEM NO. WL5028
F RATING - 4 HOUR
T RATING - 1 1/2 HR
- WALL ASSEMBLY MIN 7-1/8 IN. THICK WALL ASSEMBLY CONSTRUCTED OF ANY U.L. CLASSIFIED CONCRETE BLOCKS, MIN 4 HR FIRE RATED WALL, MAX DIAM OF OPENING IS 18-1/2 IN. SEE CONCRETE BLOCKS (CAZ2) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
 - STEEL SLEEVE CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.035 IN THICK NO. 20 GALV. STEEL SHEET STEEL, AND HAVING A MIN 2 IN LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF SLEEVE TO BE EQUAL TO THICKNESS OF WALL. SLEEVE TO BE INSTALLED BY COILING THE SHEET METAL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENINGS AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE CONCRETE BLOCKS.
 - THROUGH PENETRANTS-ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED CONCENTRICALLY WITHIN THE FIRESTOP SYSTEM PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - A. STEEL PIPE NOM 12 IN DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE
 - B. CONDUIT NOM 4 IN DIAM (OR SMALLER) STEEL ELECTRIC METALLIC TUBING OR 6 IN DIAM STEEL CONDUIT
 - C. COPPER TUBING NOM 6 IN DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
 - D. COPPER PIPE NOM 6 IN DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE
 - PIPE COVERING- NOM 1/2 IN THICK HOLLOW CYLINDRICAL HEAVY DENSITY (35 PPF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET, LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE ANNULAR SPACE BETWEEN THE INSULATED PIPE AND THE STEEL SLEEVE SHALL BE MIN 1/4 IN TO MAX 1/2 IN. SEE PIPE EQUIPMENT COVERING MATERIALS (ERGLJ) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE U.L. CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
 - FIRESTOP SYSTEM THE FIRE STOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
 - A. PACKING MATERIAL MIN 5-1/8 IN THICKNESS OF MIN 4 PPF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO THE OPENING AS A PERMANENT FORM
 - B. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL
 - C. FILL VOID OR CAVITY MATERIAL- SEALANT MIN 2 IN THICKNESS APPLIED WITHIN THE STEEL SLEEVE, FLUSH WITH BOTH SURFACE OF WALL
 - D. HLTI CONSTRUCTION CHEMICALS, DV OF HLTI INC. FS-ONE, SEALANT

BEARING THE U.L. CLASSIFICATION MARKING
PENETRATION DETAIL (J14)
NOT TO SCALE



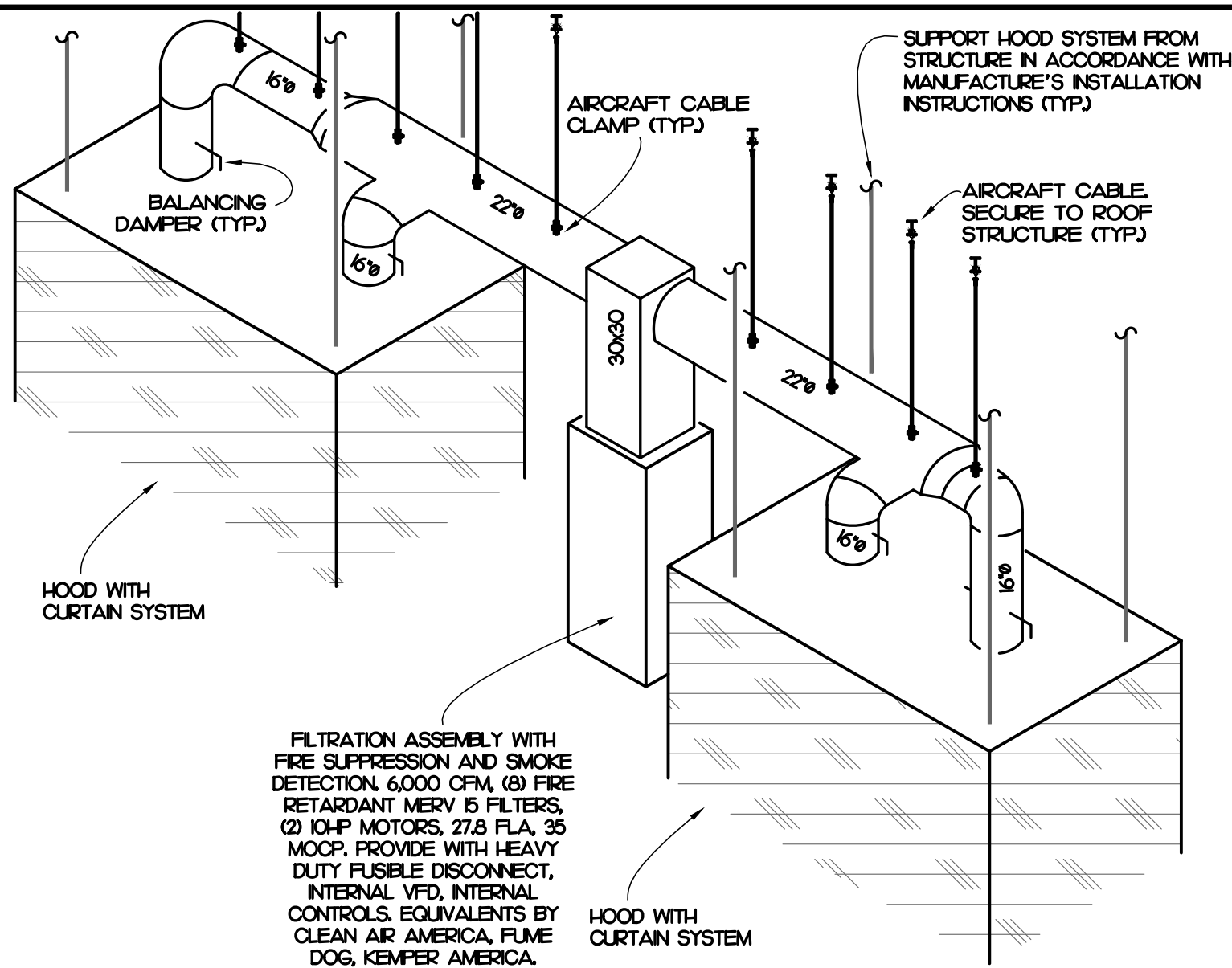
- SYSTEM NO. WL5001
F RATING - 1 AND 2 HOUR
T RATING - 1 AND 1 1/2 HR
F RATING AT AMBIENT - 2 CFMSQ FT
L RATING AT 400 F - LESS THAN 1 CFMSQ FT
- WALL ASSEMBLY- THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U500 OR U400 SERIES WALL OR PARTITION DESIGN IN THE U.L. FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS- WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNELS. STUDS: WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN WIDE BY 3-5/8 IN DEEP CHANNELS SPACED MAX 24 IN OC.
 - B. WALLBOARD, GYPSUM- NOM 5/8 IN THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U500 OR U400 SERIES DESIGN IN THE U.L. FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 14-1/2 IN FOR WOOD STUD WALLS AND 18 IN FOR STEEL STUD WALLS.
 - C. THROUGH PENETRANTS- THE FIRESTOP SYSTEM IS 1 HR WHEN INSTALLED IN A 1 HR FIRE RATED WALL AND 2 HR WHEN INSTALLED IN A 2 HR FIRE RATED WALL.
 - THROUGH PENETRANTS- ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
 - A. STEEL PIPE- NOM 12 IN DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE
 - B. COPPER TUBING- NOM 6 IN DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
 - C. COPPER PIPE- NOM 6 IN DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE
 - PIPE COVERING- NOM 1 OR 2 IN THICK HOLLOW CYLINDRICAL HEAVY DENSITY (35 PPF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET, LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. WHEN NOM 2 IN THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/4 IN TO MAX 3/8 IN. WHEN NOM 1 IN THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/2 IN TO MAX 3/4 IN.
 - SEE PIPE AND EQUIPMENT COVERING MATERIALS (ERGLJ) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE U.L. CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 3/4 HR WHEN NOM 1 IN THICK PIPE COVERING IS USED, THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 1 HR AND 2 HR WHEN NOM 2 IN THICK PIPE COVERING IS USED WITH 1 HR AND 2 HR FIRE RATED WALLS, RESPECTIVELY.
 - FIRESTOP SYSTEM- INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
 - A. FILL VOID OR CAVITY MATERIALS- WRAP STRIP- NOM 1/4 IN THICK INTUMESCENT ELASTOMERIC MATERIAL, FACED ON ONE SIDE WITH ALUMINUM FOL. SUPPLIED IN 2 IN WIDE STRIPS, NOM 2 IN WIDE STRIP TIGHTLY WRAPPED AROUND PIPE COVERING (FOL SIDE OUT) WITH SEAM BUTTED, WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOL TAPE AND SLID INTO ANNULAR SPACE APPROX 1/4 IN SLIT THAT APPROX 3/4 IN OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM 1 IN THICK PIPE COVERING IS USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM 2 IN THICK PIPE COVERING IS USED.
 - B. MINNESOTA MINING & MFG. CO.- FS-105-
 - C. FILL VOID OR CAVITY MATERIALS- CALK- MIN 1/4 IN DIAM CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYER APPROX 3/4 IN FROM THE WALL SURFACE.
 - D. MINNESOTA MINING & MFG. CO.- CP 25WB-
 - E. BEARING THE U.L. CLASSIFICATION MARKING

BEARING THE U.L. CLASSIFICATION MARKING
PENETRATION DETAIL (E18)
NOT TO SCALE

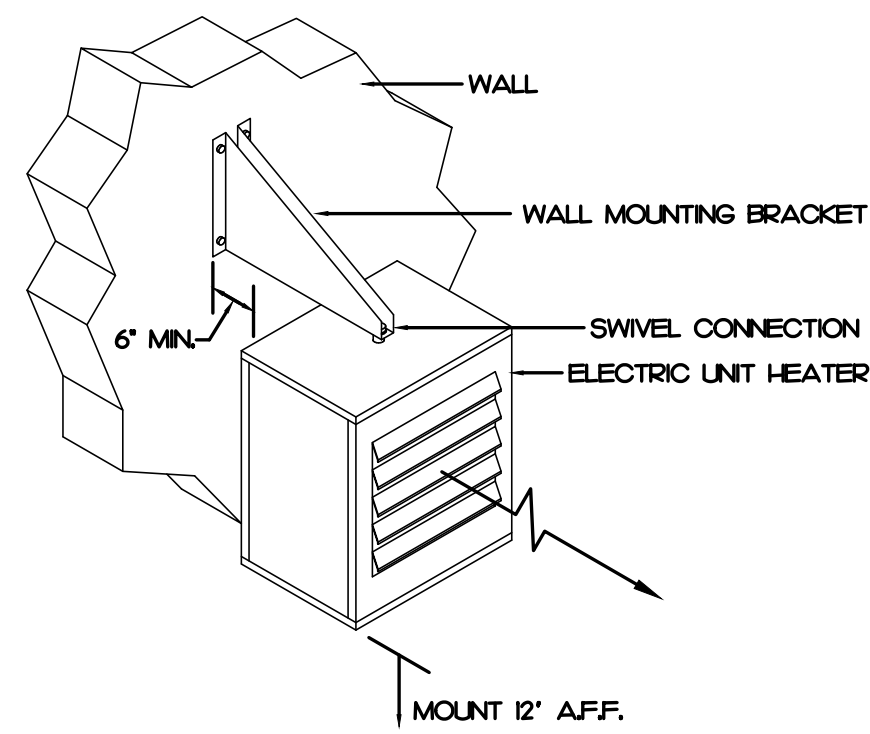


- UL CLASSIFIED SMOKE DETECTOR WALK CONTACTS
8"X8" (MIN) HINGED ACCESS DOOR
- NOTES:
1. IF DUCT WIDTH EXCEEDS 36", SAMPLING TUBE SHALL PENETRATE FAR SIDE OF DUCT & HAVE INTERMEDIATE SUPPORT. PENETRATION SHALL BE SEALED AIRTIGHT.
2. LOCATE SMOKE DETECTOR IN RETURN DUCT UPSTREAM OF OUTSIDE AIR INTAKE IN NON-TURBULENT AIRSTREAM. INSTALL PER MFG'S DETAILED INSTALLATION INSTRUCTIONS.

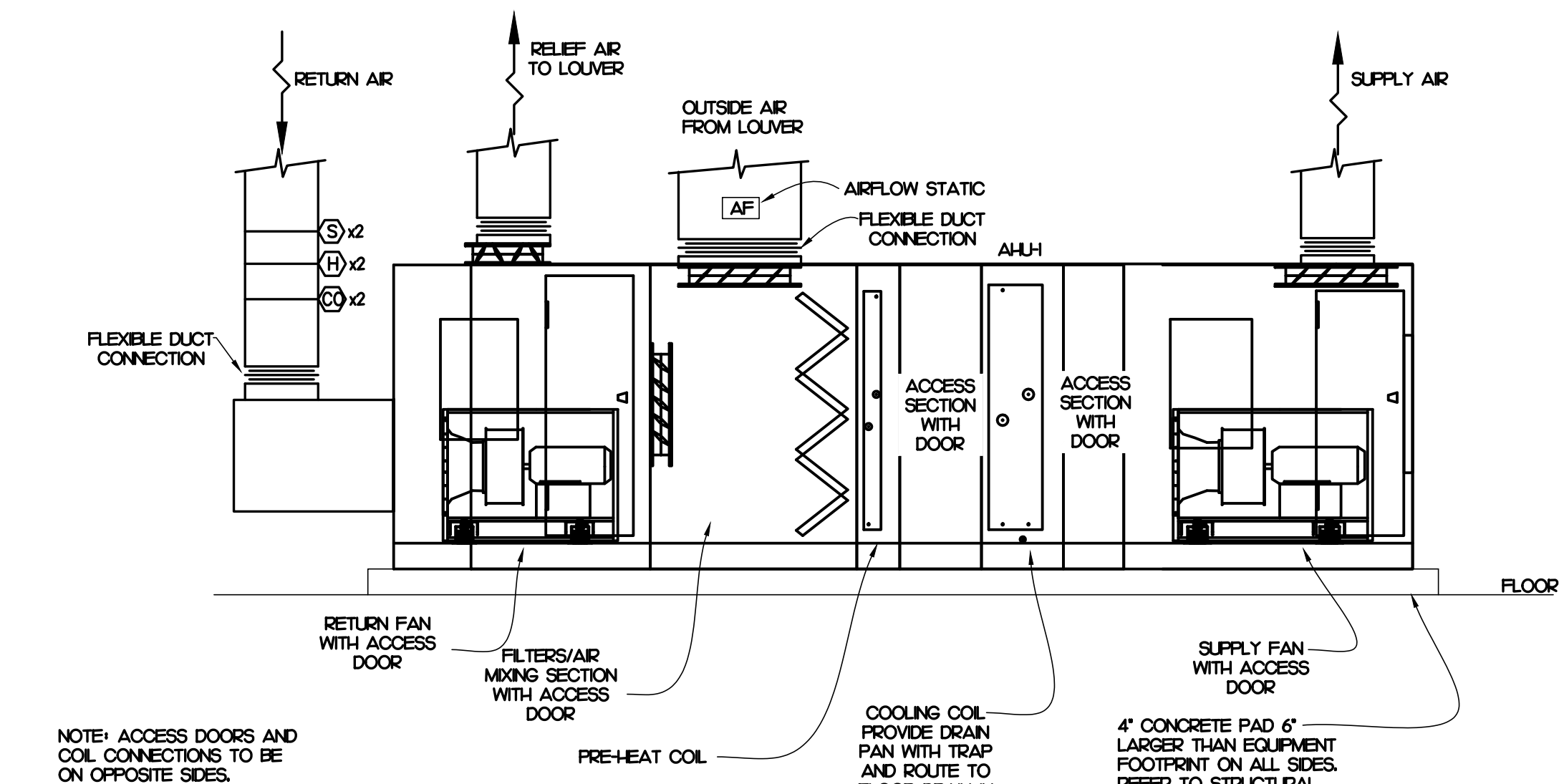
ELECTRIC UNIT HEATER DETAIL (N9)
NOT TO SCALE



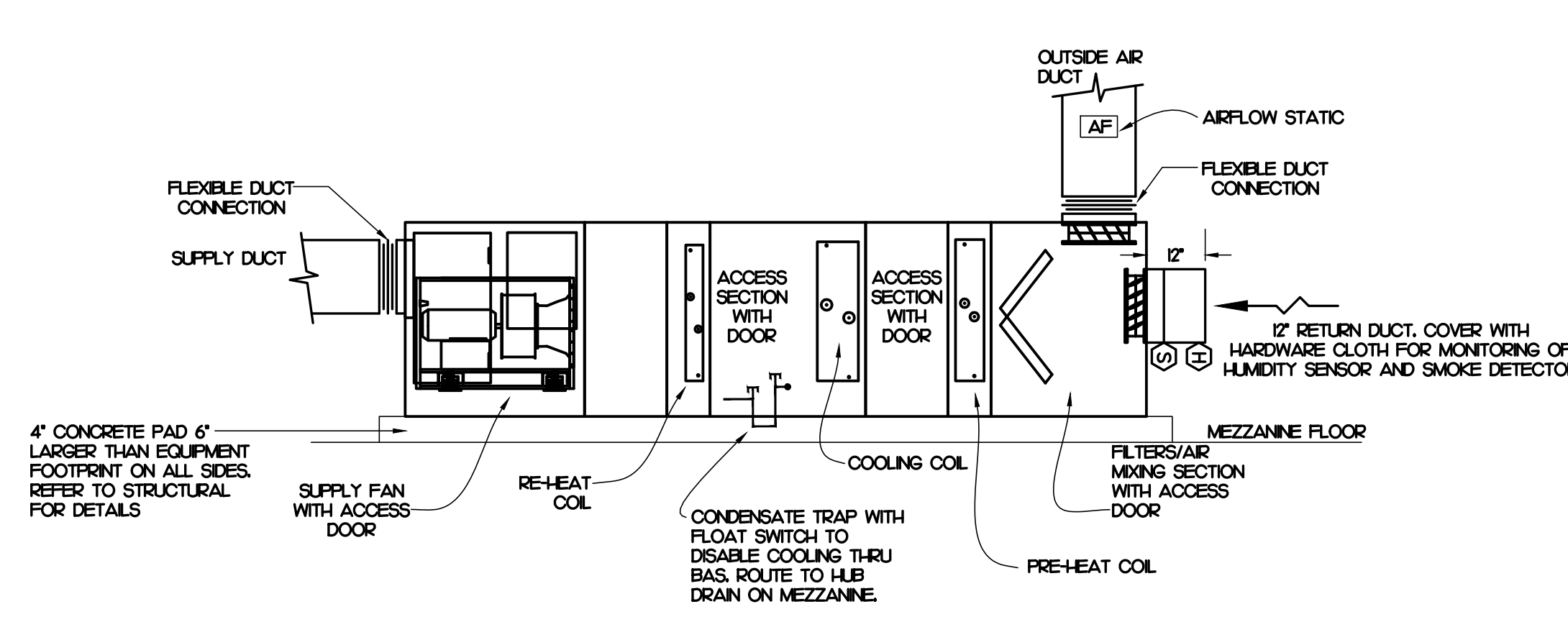
ROBOTICS HOOD DETAIL (J5)
NOT TO SCALE



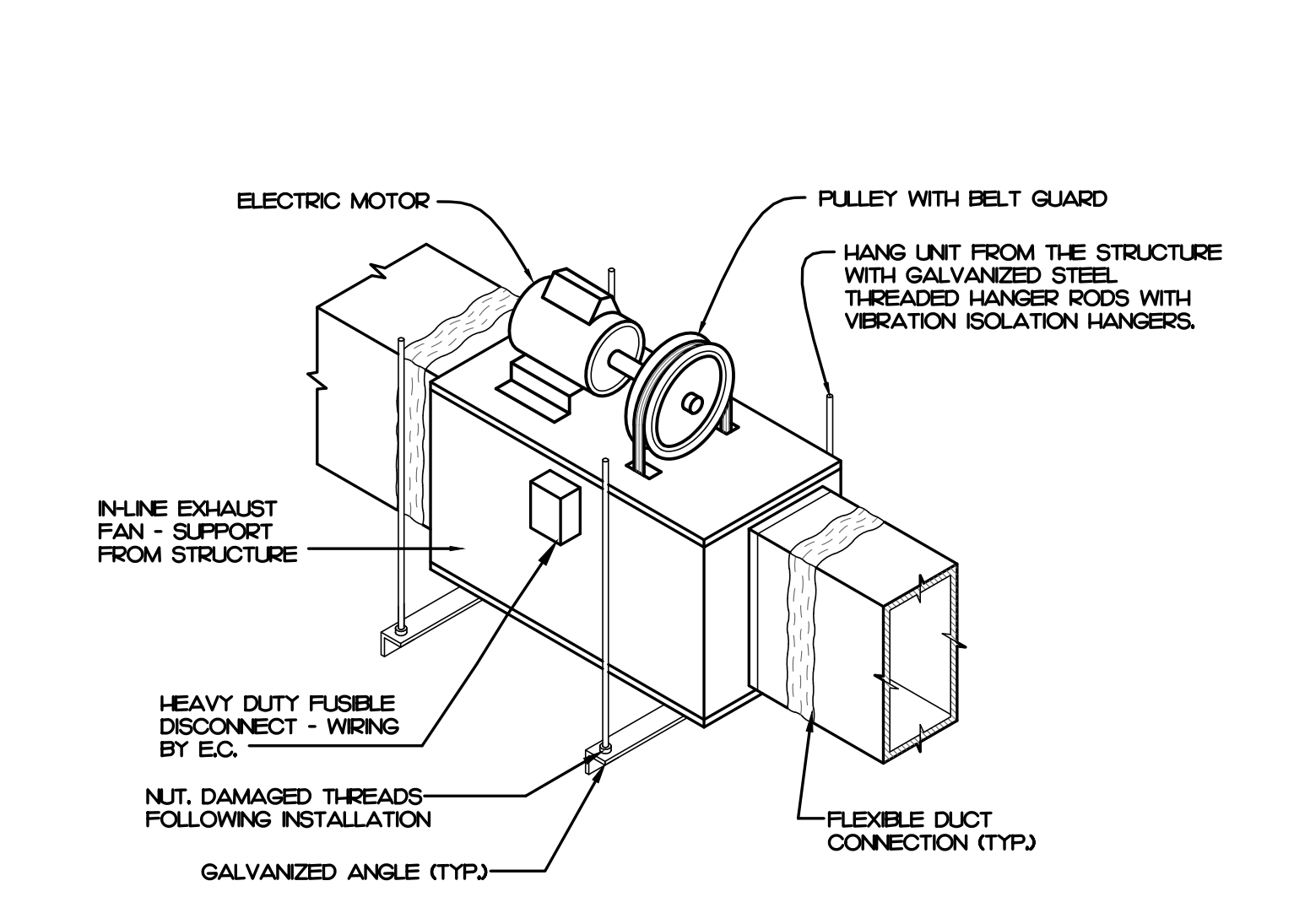
ELECTRIC UNIT HEATER DETAIL (J9)
NOT TO SCALE



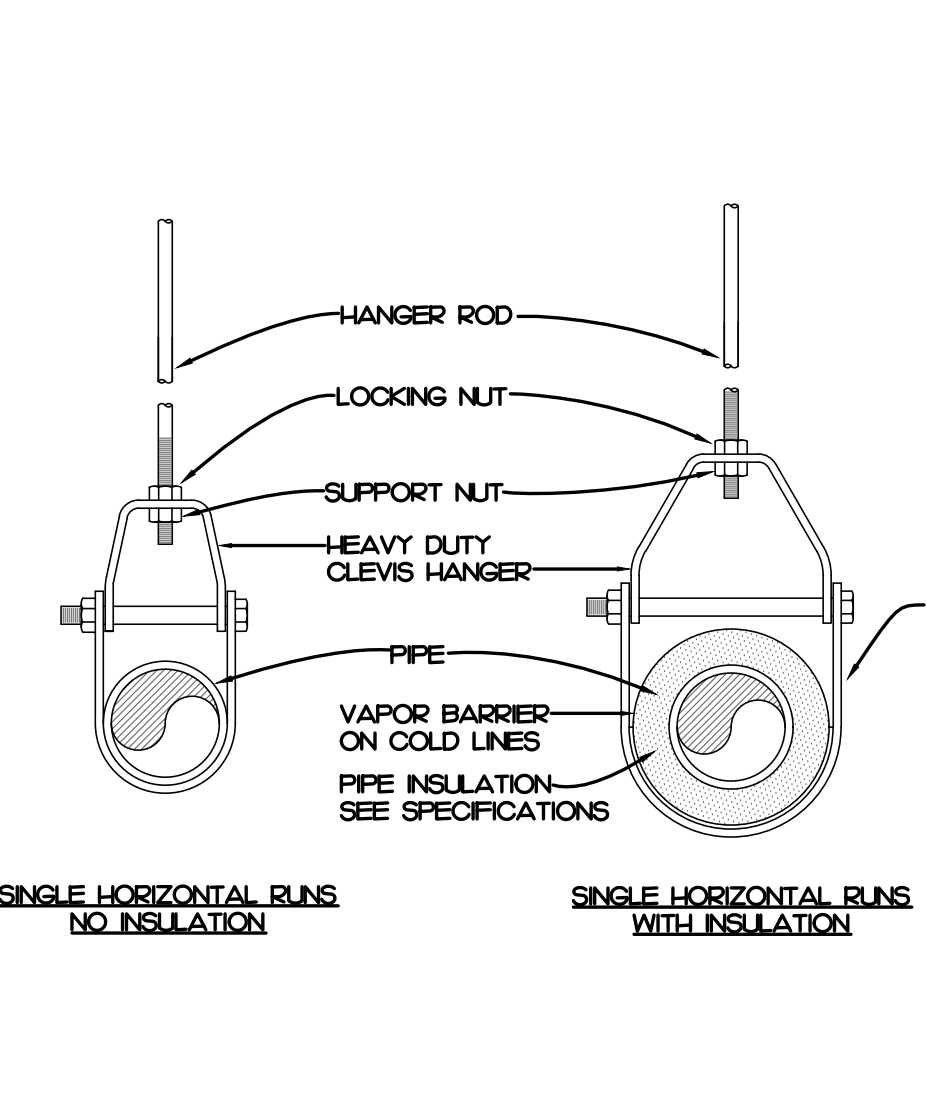
AHU DETAIL (E6)
NOT TO SCALE



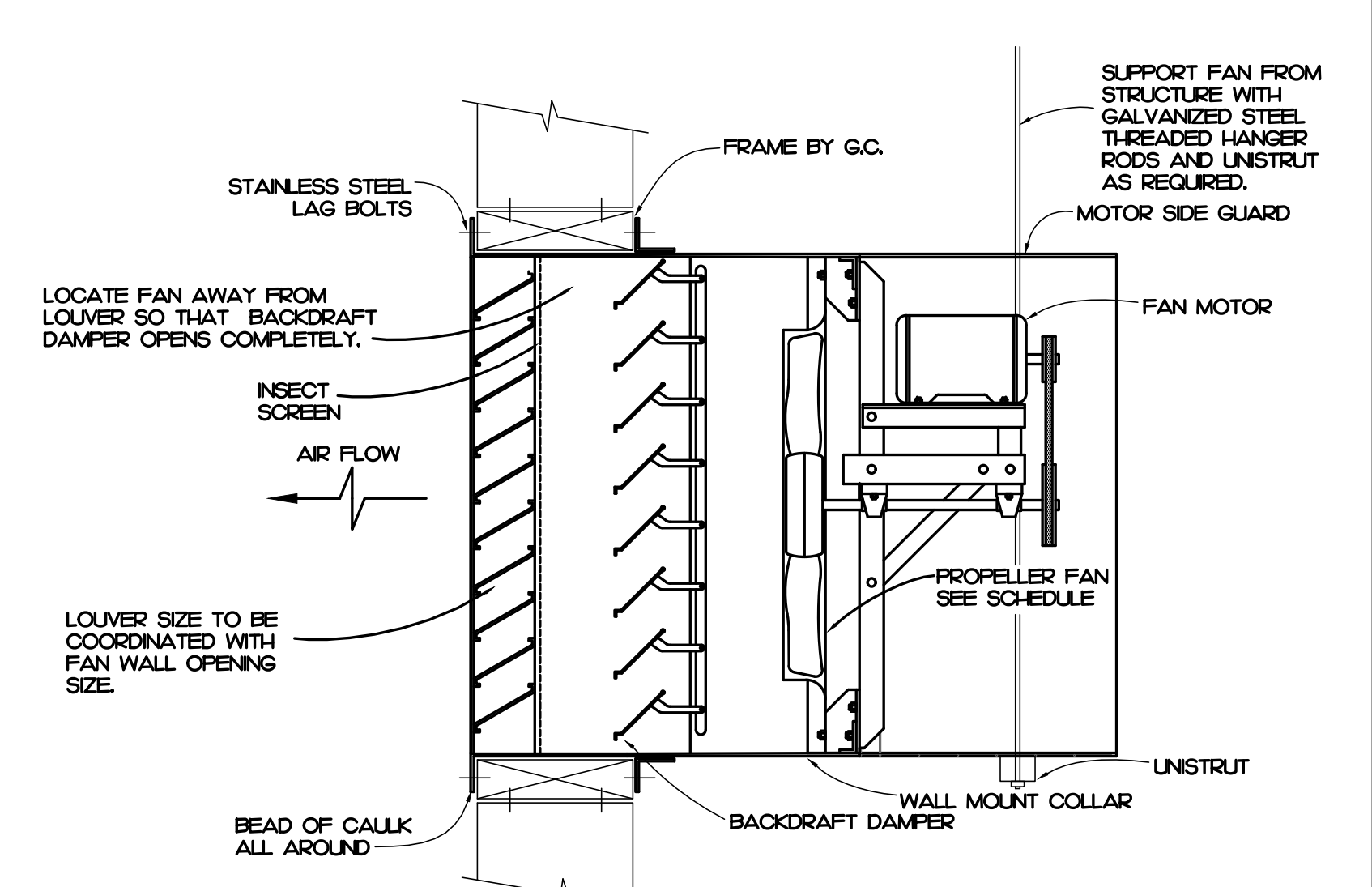
AHU-2-6 DETAIL (E14)
NOT TO SCALE



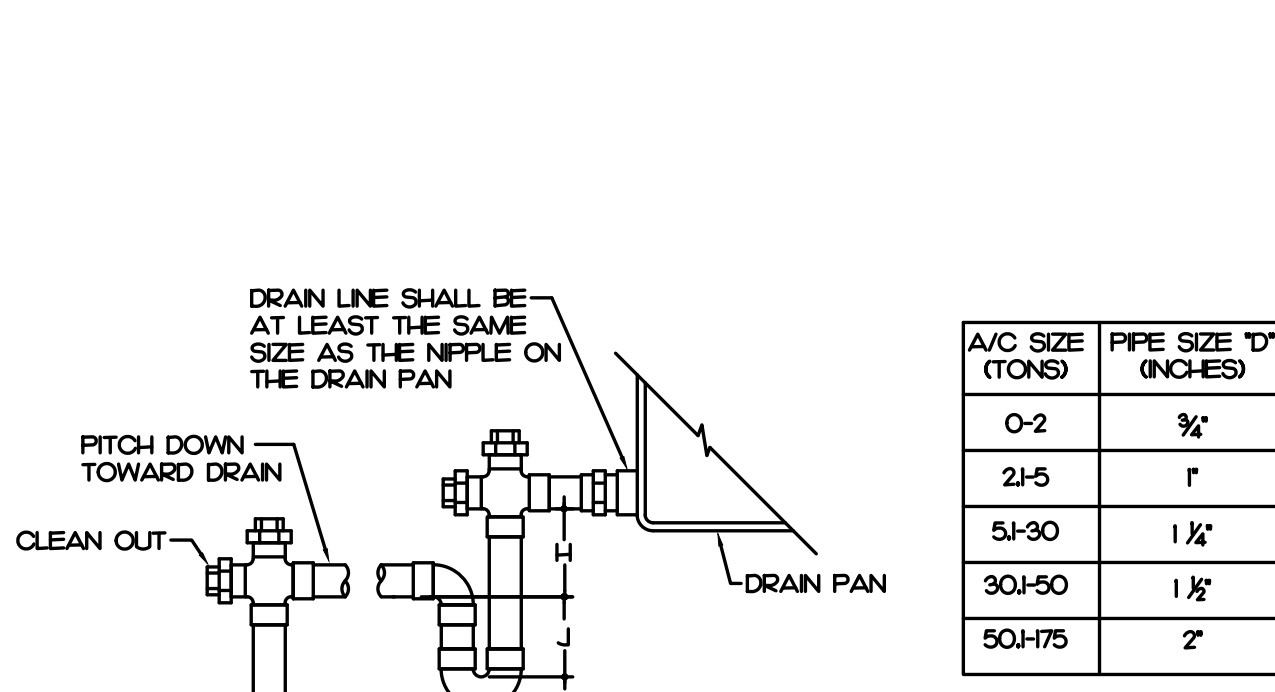
INLINE FAN DETAIL (A5)
NOT TO SCALE



PIPE HANGER DETAIL (A9)
NOT TO SCALE



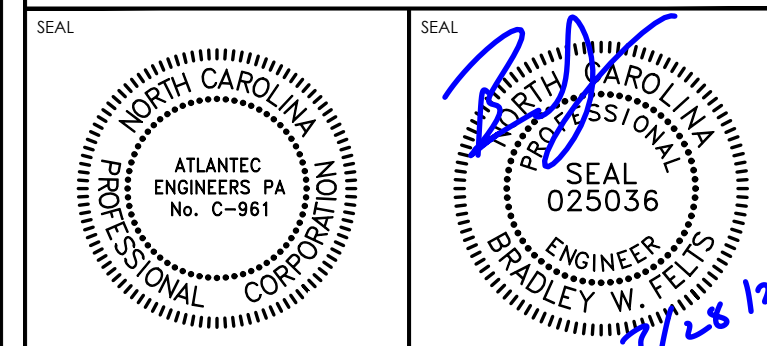
SIDEWALL EXHAUST FAN DETAIL (A14)
NOT TO SCALE



CONDENSATE TRAP DETAIL (A18)
NOT TO SCALE

A/C SIZE (TONS)	PIPE SIZE (INCHES)
0-2	3/4"
2-5	1"
5-10	1 1/2"
10-15	2"

- NOTE:
1. DRAIN TO INSULATED TYPE K COPPER.
2. 1" SHALL EQUAL FAN NEGATIVE PRESSURE PLUS 1/2" FAN PRESSURE - 2" THEN 1" - 3"
3. 1" EQUALS 1/2 H.
4. SEE CHART FOR MINIMUM PIPE SIZE OR 1".
5. MANUFACTURERS RECOMMENDATIONS SHALL OVERRIDE ITEMS 2 AND 3.
6. INSULATE PER SPECIFICATIONS.



MATERIALS KEYING LEGEND

GENERAL NOTES

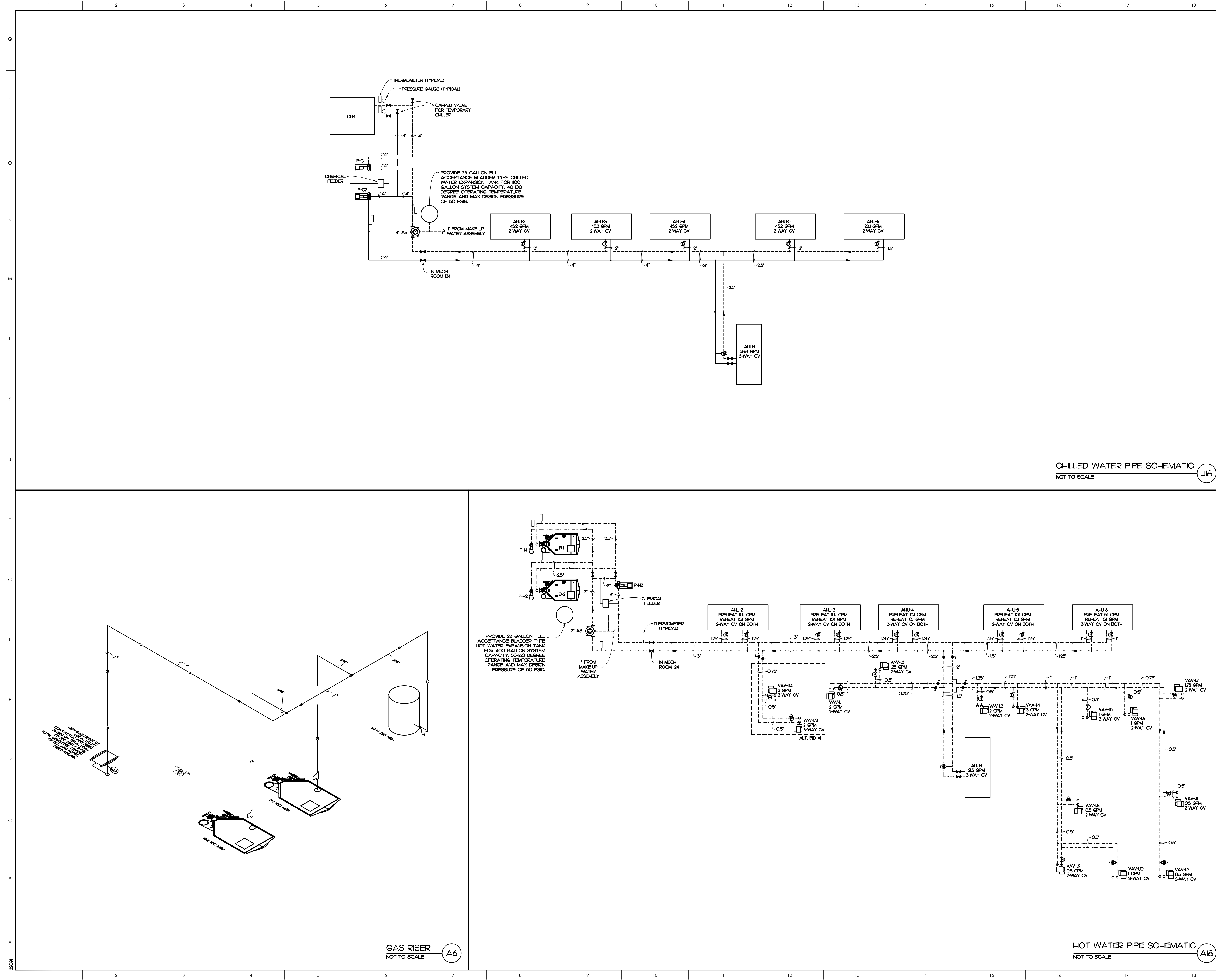
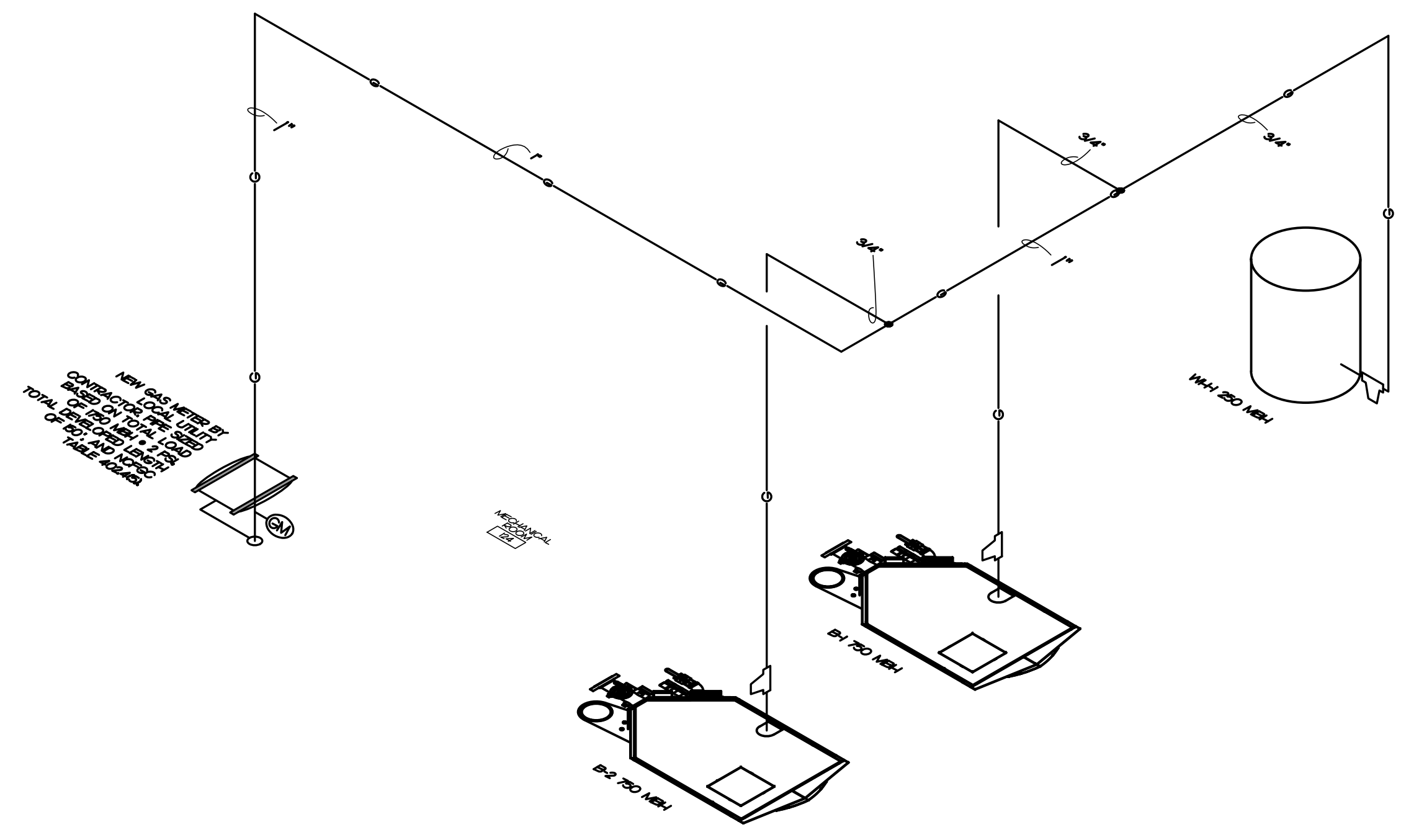
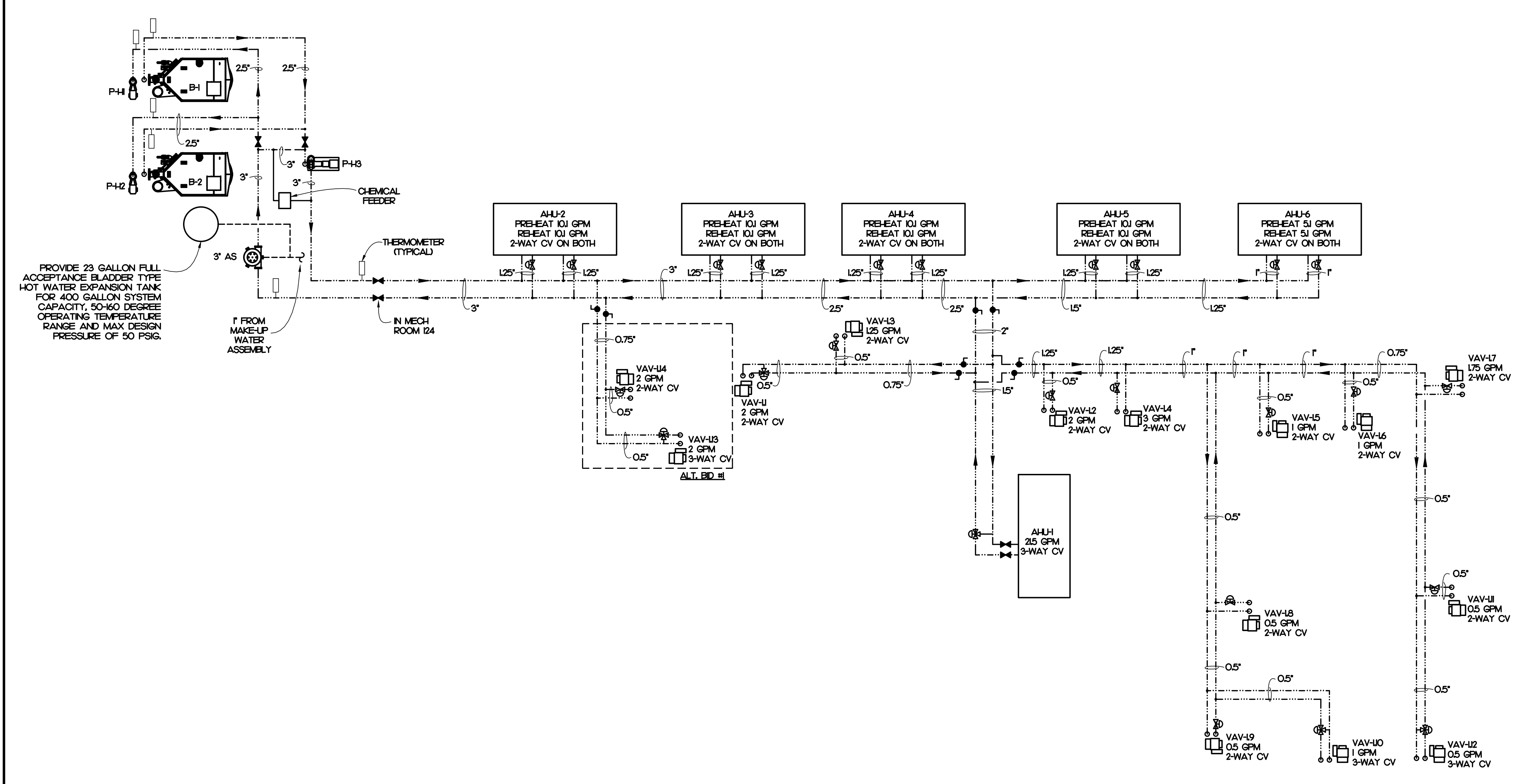
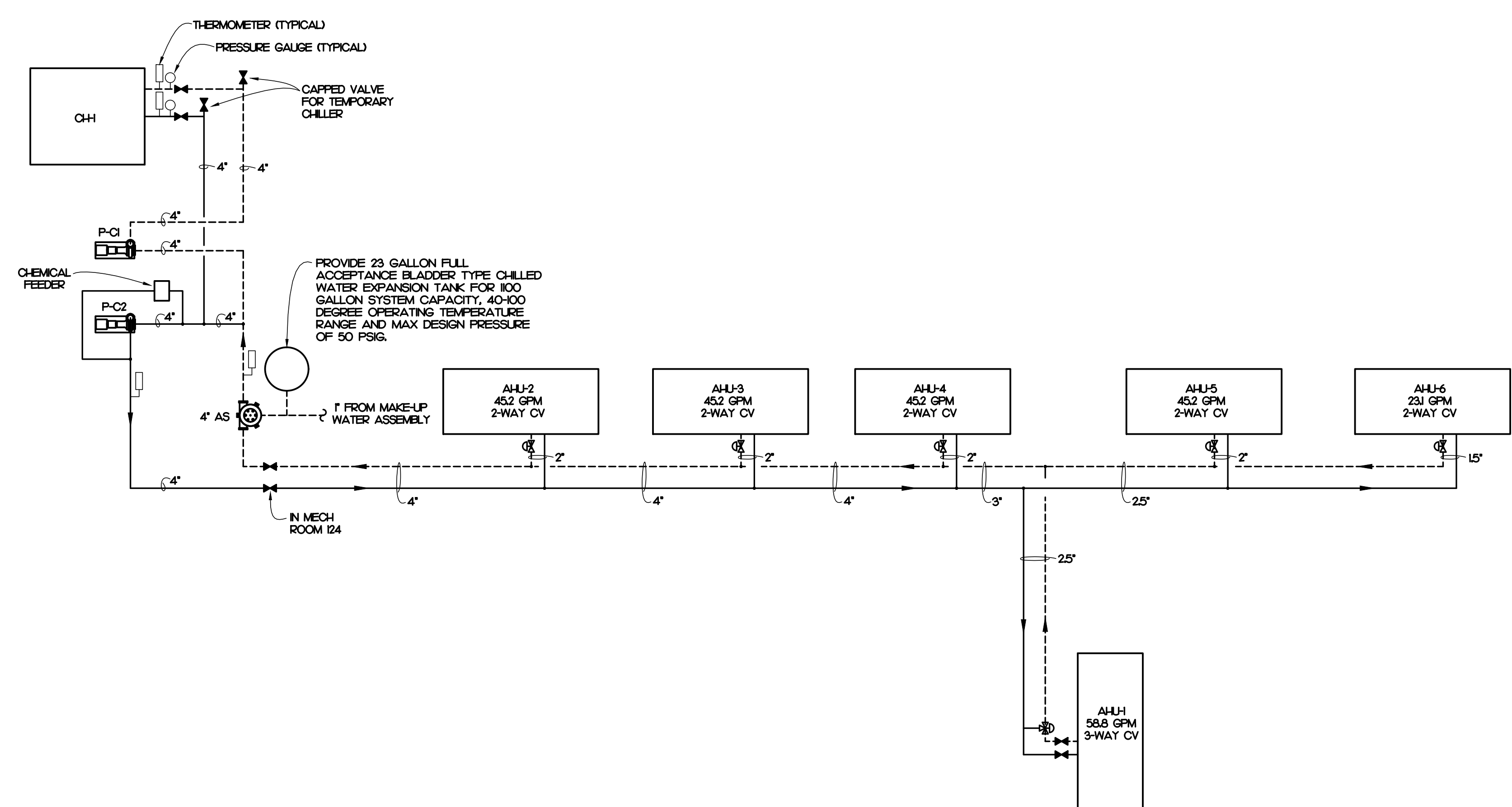
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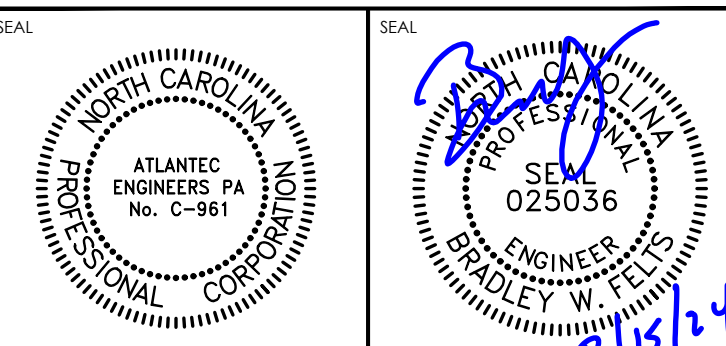
SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

J K F
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PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC
MECHANICAL PIPING SCHEMATICS
SCALE: AS NOTED
DRAWING NO: M5.1
DRAWN: BWF
CHECKED: BWF
DATE: 2-15-2024
PROJECT NO: 2022-07





CONTROLS SYMBOL LEGEND

T	WAVE	AVERAGING SENSOR
A	WAVE	AIR FLOW MEASURING STATION
H	WAVE	DUCT MOUNTED HUMIDITY SENSOR
CO	WAVE	DUCT MOUNTED CARBON DIOXIDE SENSOR
P	WAVE	DUCT MOUNTED PRESSURE SENSOR
T	WAVE	DUCT MOUNTED TEMPERATURE SENSOR
F	WAVE	DUCT MOUNTED FREEZESTAT SENSOR
T	WAVE	WELL MOUNTED TEMPERATURE SENSOR
S	WAVE	DUCT MOUNTED SMOKE DETECTOR, PROVIDE BY E.C. INSTALLED BY M.C.
B	WAVE	SPACE TEMPERATURE SENSOR
H	WAVE	SPACE HUMIDITY SENSOR
P	WAVE	PLENUM PRESSURE SENSOR
CSR	WAVE	CURRENT SENSING RELAY
R	WAVE	RELAY
FAR	WAVE	FIRE ALARM RELAY PROVIDED BY THE ELECTRICAL CONTRACTOR WIRING TO THE MOTOR STARTER BY THE MECHANICAL CONTRACTOR
S	WAVE	COMBINATION MOTOR STARTER/DISCONNECT (SUPPLIED BY CONTROLS CONTRACTOR)
VFD	WAVE	VARIABLE FREQUENCY DRIVE WITH MANUAL BY-PASS AND DISCONNECT (SUPPLIED BY CONTROLS CONTRACTOR)
M	WAVE	ELECTRONIC DAMPER MOTOR
O/A	WAVE	OUTSIDE AIR
R/A	WAVE	RETURN AIR
S/A	WAVE	SUPPLY AIR
E/A	WAVE	EXHAUST AIR

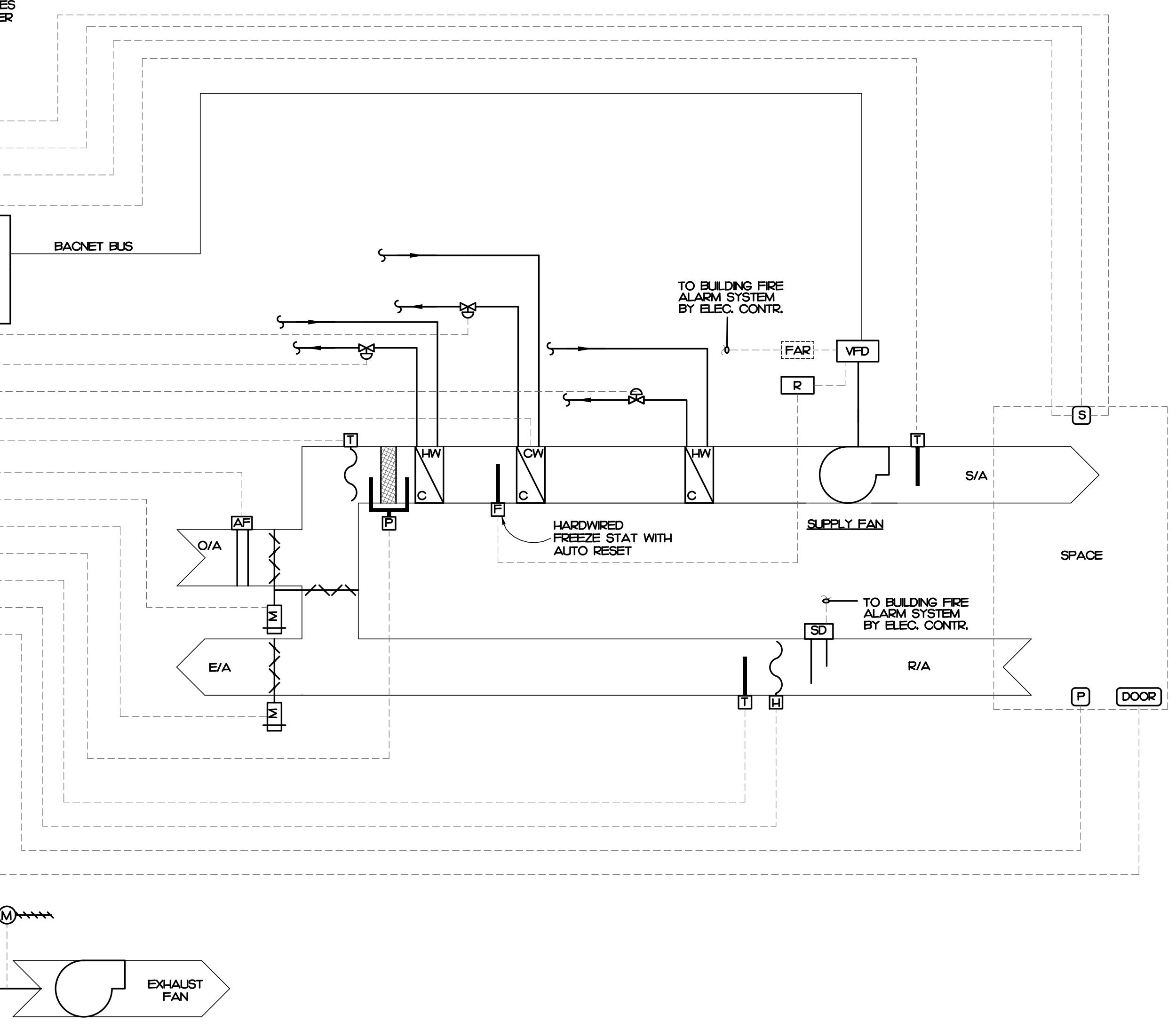
MATERIALS KEYING LEGEND

CONTROL NOTES

- ALL CONTROL WIRING SHALL BE ROUTED IN CONDUIT IN MECHANICAL ROOMS AND WHERE CONCEALED IN WALLS. WIRING ROUTED ABOVE CEILING MAY BE PLENUM RATED AND STRAPPED TO PIPE OR STRUCTURE. PROVIDE YELLOW MARKING ON CONTROL CONDUIT EVERY 15 FT MAXIMUM IN MECHANICAL ROOMS AND ABOVE CEILINGS.
- JBOX COVERS ABOVE CEILING AND IN MECHANICAL ROOMS SHALL BE PAINTED YELLOW WITH THE WRITTEN BAS LABEL.
- THE CONTROLS CONTRACTOR SHALL PROVIDE ALL MOTOR STARTERS, VARIABLE FREQUENCY DRIVES.
- PROVIDE CONTROL VALVES (2-WAY/3-WAY) AS SHOWN ON SHEET M51.
- ALL TEMPERATURE SENSOR IN OFFICES AND CLASSROOMS TO HAVE PUSH-BUTTON OVERRIDE, TEMPERATURE DISPLAY, SET-POINT ADJUSTMENT. ALL OTHER AREAS TO HAVE TEMPERATURE DISPLAY ONLY. CLASSROOMS TO MONITOR CO2 FOR DEMAND CONTROL VENTILATION.
- THE BOILER, CHILLER AND VFD'S SHALL COMMUNICATE TO BAS THROUGH BACKET BUS. POINTS SHOWN ON ARE PLAN ARE MINIMUM AND CONTRACTOR SHALL ALLOW UP TO 10 POINTS PER VFD, CHILLER AND BOILER TO BE DETERMINED BY THE OWNER.
- THE CONTRACTOR SHALL HAVE MEETING WITH OWNER PRIOR TO ANY PROGRAMMING TO CONFIRM POINTS NAMING FOR THIS PROJECT.
- CONTROLS CONTRACTOR SHALL PROVIDE WATER TEMPERATURE AND AIR, GAS PRESSURE SENSORS FOR MOUNTING IN PIPING BY PLUMBING CONTRACTOR. SEE PLUMBING PLANS FOR LOCATIONS.

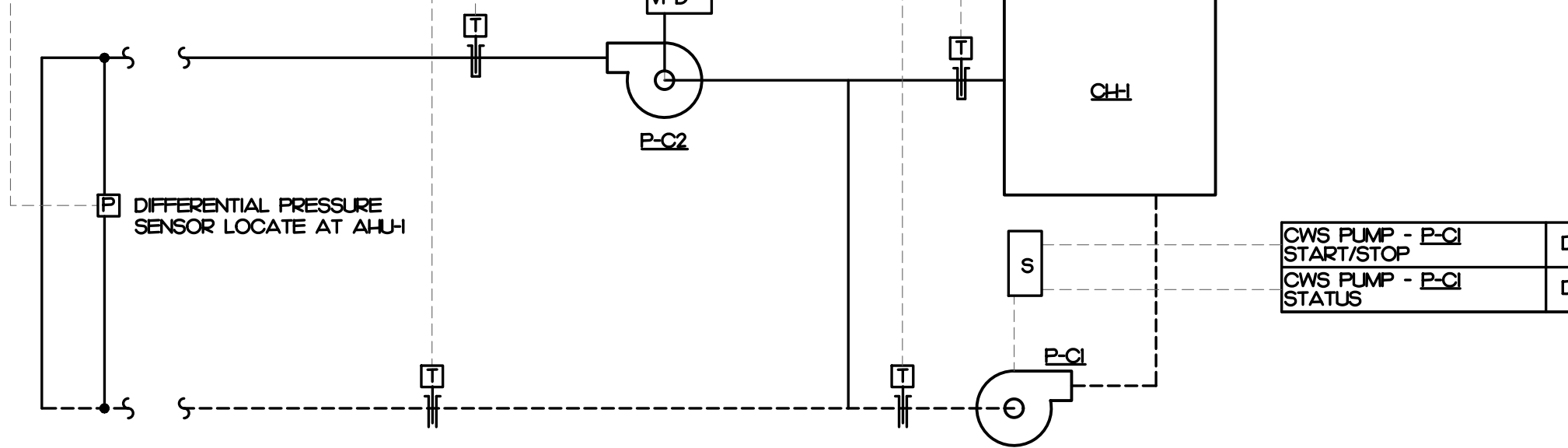
NOTE:
PROVIDE 2-WAY CONTROL VALVES ON ALL CHILLED AND HOT WATER COILS

OCCUPANCY OVERRIDE	DI
SPACE TEMP. OVERRIDE	AI
TEMPERATURE	AI
SUPPLY AIR START/STOP	DO
SUPPLY FAN START/STOP	DI
SUPPLY FAN SPEED INPUT	AO
SUPPLY FAN SPEED OUTPUT	AI
CW COIL CONTROL VALVE	AO
PREHEAT COIL CONTROL VALVE	AO
REHEAT COIL CONTROL VALVE	AO
CONDENSATE OVERFLOW ALARM	DI
MIXED AIR TEMPERATURE	AI
OUTSIDE AIRFLOW MONITOR	AI
OUTSIDE/RETURN AIR DAMPER	AO
EXHAUST AIR DAMPER	AO
FILTERS	AI
RETURN AIR TEMPERATURE	AI
RETURN AIR HUMIDITY	AI
DOOR SWITCH OPEN/CLOSED	DI
RELIEF FAN	AO



AHU-2-6 SCHEMATIC (J8)
NOT TO SCALE

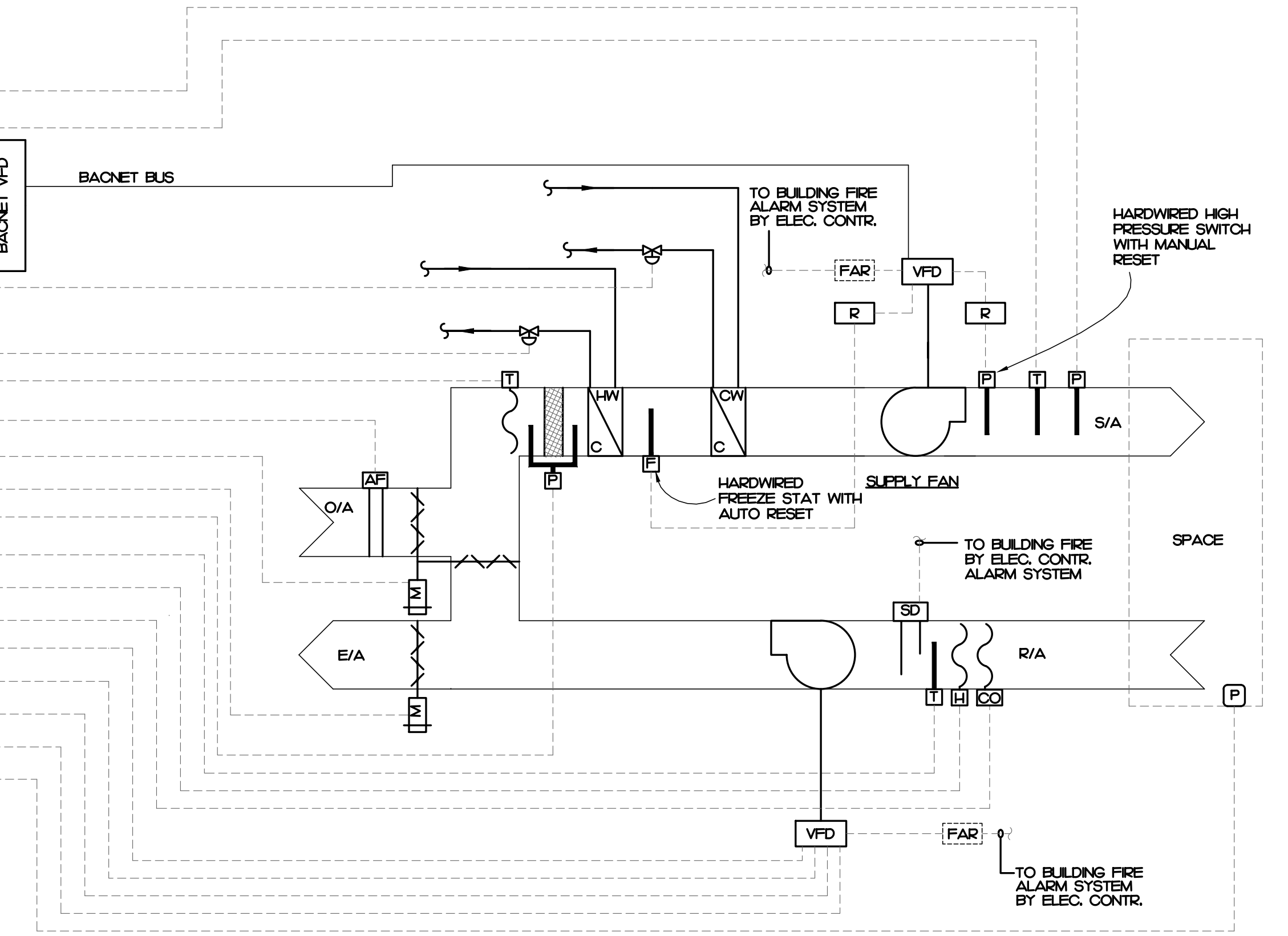
CHILLER POWER USAGE	AI
CHILLED WATER RESET SIGNAL (4-20 mA)	AO
CHILLER START/STOP	DO
CHILLER ALARM	DI
CHILLER SUPPLY TEMPERATURE	AI
CHILLER ENTERING WATER TEMPERATURE	AI
CWS PUMP - P-C2 SPEED INPUT	AO
CWS PUMP - P-C2 SPEED OUTPUT	AI
CWS PUMP - P-C2 STATUS	DI
CWS PUMP - P-C2 START/STOP	DO
BUILDING SUPPLY TEMPERATURE	AI
BUILDING RETURN TEMPERATURE	AI
DIFFERENTIAL PRESSURE SENSOR	AI



CHILLED WATER SCHEMATIC (E15)
NOT TO SCALE

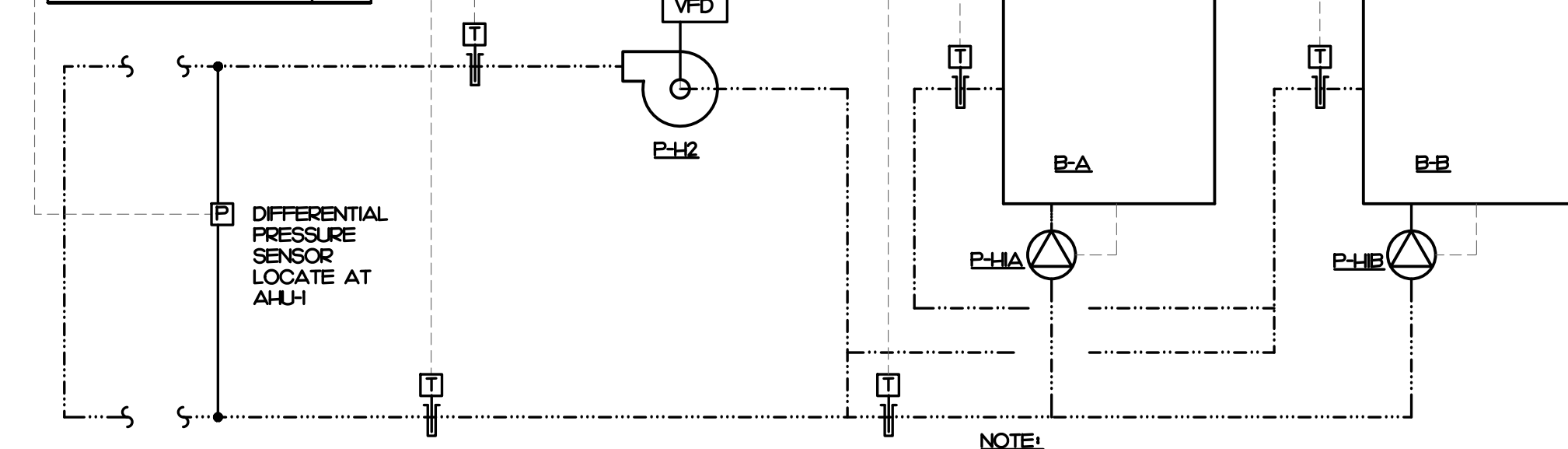
NOTE:
PROVIDE 3-WAY CONTROL VALVES ON ALL CHILLED AND HOT WATER COILS.

SUPPLY AIR PRESSURE	AI
SUPPLY AIR TEMPERATURE	AI
SUPPLY FAN START/STOP	DO
SUPPLY FAN ALARM	DI
SUPPLY FAN SPEED INPUT	AO
SUPPLY FAN SPEED OUTPUT	AI
CW COIL CONTROL VALVE	AO
HW COIL CONTROL VALVE	AO
MIXED AIR TEMPERATURE	AI
OUTSIDE AIRFLOW MONITOR	AI
OUTSIDE/RETURN AIR DAMPER	AO
EXHAUST AIR DAMPER	AO
FILTER PRESSURE	AI
RETURN AIR TEMPERATURE x2	AI
RETURN AIR HUMIDITY x2	AI
RETURN AIR CARBON DIOXIDE x2	AI
RETURN FAN START/STOP	DO
RETURN FAN ALARM	DI
RETURN FAN SPEED INPUT	AO
RETURN FAN SPEED OUTPUT	AI
BUILDING PRESSURE	AI



AHU-H SCHEMATIC (A8)
NOT TO SCALE

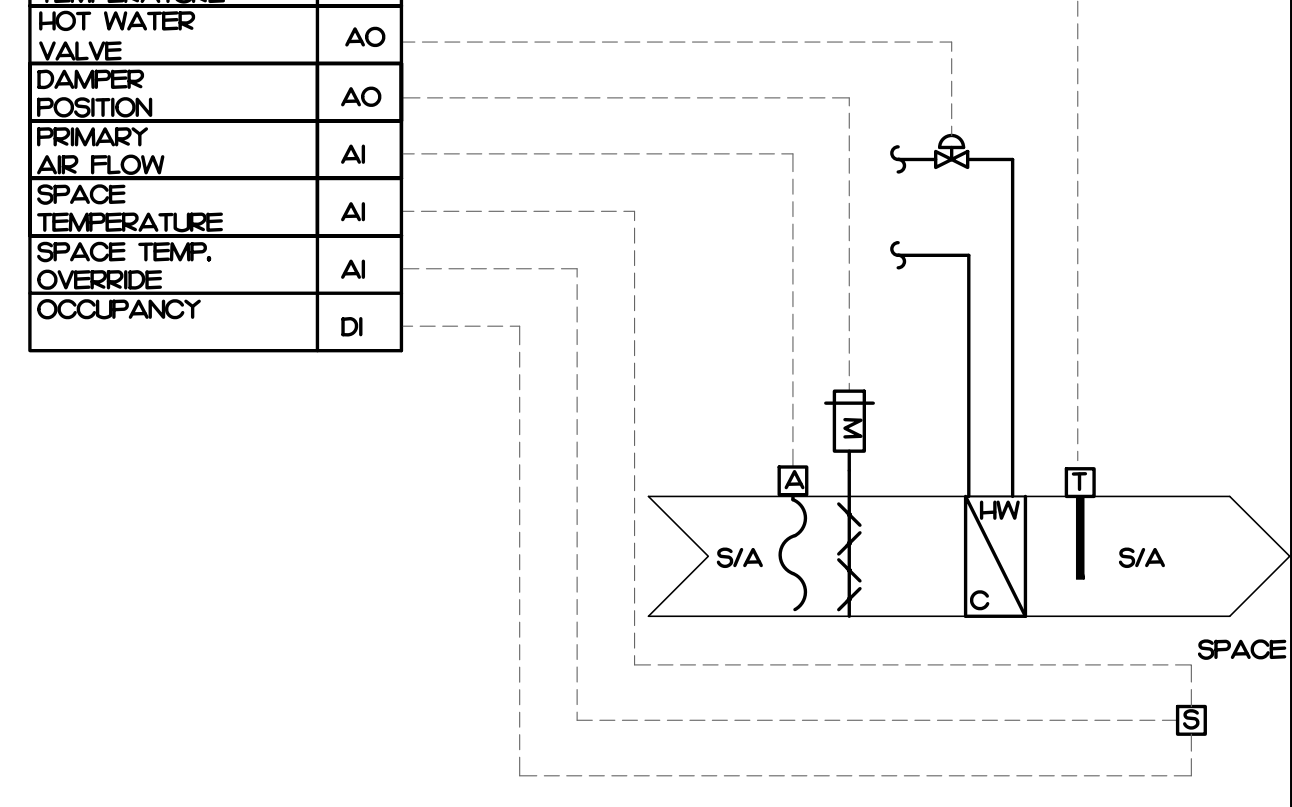
HOT WATER RESET SIGNAL (4-20 mA)	AO
BOILER #2 START/STOP	DO
BOILER #2 ALARM	DI
BOILER #2 SUPPLY TEMPERATURE	AI
HOT WATER RESET SIGNAL (4-20 mA)	AO
BOILER #3 START/STOP	DO
BOILER #3 ALARM	DI
BOILER #3 SUPPLY TEMPERATURE	AI
BOILER RETURN TEMPERATURE	AI
HWS PUMP - P-H2 SPEED INPUT	AO
HWS PUMP - P-H2 SPEED OUTPUT	AI
HWS PUMP - P-H2 STATUS	DI
HWS PUMP - P-H2 START/STOP	DO
BUILDING SUPPLY TEMPERATURE	AI
BUILDING RETURN TEMPERATURE	AI
DIFFERENTIAL PRESSURE SENSOR	AI



HOT WATER SCHEMATIC (A15)
NOT TO SCALE

NOTE:
PROVIDE 2-WAY CONTROL VALVES ON ALL VAV TERMINALS EXCEPT AS NOTED BELOW. PROVIDE 3-WAY CONTROL VALVE ON VAV TERMINALS AT VAV-12, 11 AND 15.

SUPPLY AIR TEMPERATURE	AI
HOT WATER VALVE DAMPER POSITION	AO
PRIMARY AIR FLOW	AI
SPACE TEMPERATURE	AI
SPACE TEMP. OVERRIDE	AI
OCCUPANCY	DI



VAV TERMINAL DETAIL (E18)
NOT TO SCALE

MISCELLANEOUS	
TOILET EXHAUST FAN ON/OFF	DO
COMPRESSED AIR LINE PRESSURE	AI
AIR COMPRESSOR ALARM	DI
ARGON LINE PRESSURE ALARM	AI
ARGON MIX LINE PRESSURE x2	AI
DOMESTIC HOT WATER SUPPLY TEMPERATURE	AI
DOMESTIC HOT WATER RETURN PUMP ON/OFF	DO
OUTSIDE AIR TEMPERATURE	AI
OUTSIDE AIR ENTHALPY	AI
TOTAL BUILDING POWER	DI
TOTAL BUILDING WATER	DI
TOTAL BUILDING GAS	DI

MISCELLANEOUS CONTROL POINTS (A18)
NOT TO SCALE

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE
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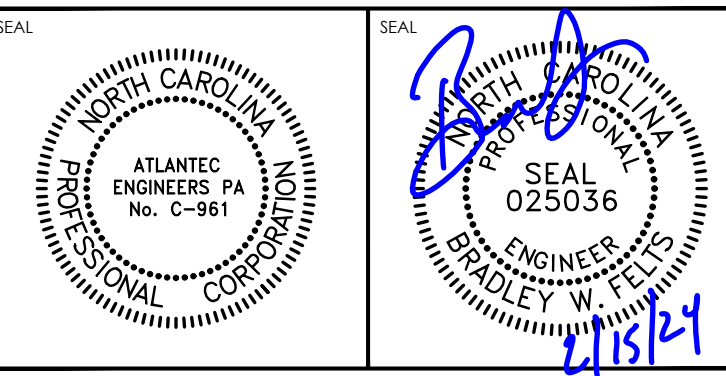
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PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC

MECHANICAL CONTROL SCHEMATIC AND NOTES

SCALE	AS NOTED	DRAWING NO.	
DRAWN	BWF		
CHECKED	BWF		
DATE	2-15-2024		M6.1
PROJECT NO.	2022-07		



AIR HANDLING UNIT SCHEDULE

MARK	AREA SERVED	SUPPLY FAN						RETURN FAN						COOLING COIL						RE-HEAT COIL						AIR MIXING SECTION				NOTES	MAXIMUM FOOTPRINT L' x W' x H'																
		AIR FLOW (GPM)	MIN. I.A.P. (GPM)	TSP (IN WG)	ESP (IN WG)	RPM	HZ	AIR FLOW (GPM)	TSP (IN WG)	ESP (IN WG)	RPM	HZ	FACE VELO (FFM)	ROWS/FFF	TOT. CAP. (MEB)	SSA CAP. (MEB)	FLOW (GPM)	WPT (FT)	TEST (FT)	LWT (FT)	APD (IN WG)	EST (IN WG)	FACE VELO (FFM)	ROWS/FFF	TOT. CAP. (MEB)	FLOW (GPM)	WPT (FT)	TEST (FT)	LWT (FT)			APD (IN WG)	EST (IN WG)	FACE VELO (FFM)	ROWS/FFF	TOT. CAP. (MEB)	FLOW (GPM)	WPT (FT)	TEST (FT)	LWT (FT)	APD (IN WG)	EST (IN WG)	SIZE	QUANTITY	SIZE	QUANTITY	
AHJ-1	OFFICE/CLASS	9100	1600	5.0	2.0	1766	60	15	480/3	9100	2.27	15	1820	62	75	480/3	536	6/99	3540	2480	58.6	5.40	42	54	0.75	80.0	67.0	55.0	54.2	536	2/20	3221	215	2.95	160	190	0.23	320	65.0			20X20	4	20X24	8	H-6	90 x 80 x 50
AHJ-2	OFFICE/CLASS	7200	1000	4.36	2.0	1844	63	10	480/3	7200	1.99	15	1787	61	50	480/3	428	4/61	2725	1984	45.7	3.25	42	54	0.49	80.0	67.0	55.0	54.6	480	1/03	257.7	172	1.62	160	190	0.07	320	65.0			20X20	4	20X24	8	H-6	90 x 80 x 50
AHJ-3	WELDING	7000	1000	3.91	1.0	1781	60	75	480/3																																					H-6	65 x 72 x 42
AHJ-4	WELDING	7000	1000	3.91	1.0	1781	60	75	480/3																																				H-6	65 x 72 x 42	
AHJ-5	WELDING	7000	1000	3.91	1.0	1781	60	75	480/3																																			H-6	65 x 72 x 42		
AHJ-6	WELDING	3500	950	3.72	1.0	2008	68	5.0	480/3																																			H-6	63 x 51 x 38		

- NOTES:
 1. PROVIDE WITH 2" DISPOSABLE MERV 8/9 FILTERS IN FILTER MIXING SECTION. PROVIDE SPARE SET FOR EACH UNIT AT CLOSE OF PROJECT TO TURN OVER TO OWNER.
 2. PROVIDE WITH STAINLESS STEEL CASING, DRAIN PAN FOR COOLING SECTION.
 3. PROVIDE TOOL LESS HANDLES FOR ALL ACCESS DOORS.
 4. PROVIDE WITH BUCKET VARIABLE FREQUENCY DRIVE WITH BY-PASS FOR FANS WITH GROUNDING RINGS.
 5. CONTROL VIA BUILDING AUTOMATION SYSTEM.
 6. COIL CONNECTION AND FAN/FILTER ACCESS ON OPPOSITE SIDES.

PUMP SCHEDULE

MARK	BASIS OF DESIGN	TYPE	SERVICE	FLOW (GPM)	HEAD (FT)	RPM	MOTOR (HP) (V/V)	NOTES
P-1	BELL & GOSSETT SERIES 90 20X20SC	N/INE	BOILER #1 PRIMARY	45	20	180	0.75 208/1 4.6,7	
P-2	BELL & GOSSETT SERIES 90 20X20SC	N/INE	BOILER #2 PRIMARY	45	20	180	0.75 208/1 4.6,7	
P-3	BELL & GOSSETT E-50 2AD-ES	END SUCTION	HOT WATER SECONDARY	90	45	1800	2.0 208/1 12.3,5	
P-C1	BELL & GOSSETT E-50 2AD-ES	END SUCTION	CHILLED WATER PRIMARY	240	30	1800	3.0 480/3 3.4,7	
P-C2	BELL & GOSSETT E-50 2AD-ES	END SUCTION	CHILLED WATER SECONDARY	260	50	1800	7.5 480/3 12.3,5	

- NOTES:
 1. PROVIDE WITH DISCONNECT SWITCH.
 2. PROVIDE WITH INVERTER DUTY MOTOR AND SHAFT GROUNDING RING.
 3. CONTROL VIA BUILDING AUTOMATION SYSTEM.
 4. TRIM WHEELER FOR DESIRED FLOW.
 5. PROVIDE WITH BUCKET VARIABLE FREQUENCY DRIVE WITH MANUAL BY-PASS AND INTEGRAL FUSES.
 6. PUMP CONTROLLED BY BOILER.
 7. PROVIDE WITH COMBINATION STARTER/DISCONNECT.

AIR-COOLED CHILLER SCHEDULE

MARK	BASIS OF DESIGN	MODEL	SYSTEM CAPACITY (TONS)	WATER FLOW (GPM)	MAX WPT (FT)	EWY (FT)	LWT (FT)	REFRIG. TYPE	EVAP. POLLING FACTOR	POLYPROPYLENE GLYCOL (L)	ELECTRICAL (V/W) (MCA) (MCCP)	EFFICIENCY (EER)	NOTES	
CH	TRANE	CGAM	90	240	5	54.0	42.0	R454B	0.0001	15	480/3 260	350	10.09	H-6 EQUALS BY CARRIER, DAKIN

- NOTES:
 1. PROVIDE WITH COIL GUARDS.
 2. PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION. UNIT TO HAVE A MINIMUM OF 6 STAGES OF CONTROL DOWN TO 25% CAPACITY.
 3. PROVIDE WITH UNIT MOUNTED ACROSS THE LINE STARTER AND DISCONNECT SWITCH AND CONTROL PANEL.
 4. CONTROL VIA BUILDING AUTOMATION SYSTEM. SEE POINTS LIST ON SHEET M-4.1
 5. PROVIDE WITH 6" THICK CONCRETE PAD 12" WIDER THAN EQUIPMENT BY CONTRACTOR.
 6. PROVIDE 5 YEAR WARRANTY FOR PARTS AND LABOR.
 7. PROVIDE 10 AMP CONNECTION FOR CONTROL.
 8. PROVIDE 10 AMP CONNECTION FOR CONTROL.
 9. CONTROL PANEL TO HAVE BACKET COMMUNICATING CARD.

HOT WATER BOILER SCHEDULE

MARK	BASIS OF DESIGN	MODEL	FUEL	INPUT (MBH)	OUTPUT (MBH)	INPUT GAS PRESSURE (IN W.C.)	FLOW (GPM)	EWY (FT)	LWT (FT)	BLOWER FLA (V/W)	THERMAL EFFICIENCY (%)	NOTES	
B-1	LOCHINVAR	FB-07H	NAT. GAS	750	722	14"	45	190	160	6.0	120/1	96.0/1	I-7
B-2	LOCHINVAR	FB-07H	NAT. GAS	750	722	14"	45	190	160	6.0	120/1	96.0/1	I-7

- NOTES:
 1. PROVIDE WITH 1/2" MODULATING TURNDOWN AND ACCESSORIES FOR OUTDOOR MOUNTING.
 2. PROVIDE WITH COMBINATION MOTOR STARTER/DISCONNECT SWITCH.
 3. PROVIDE WITH FACTORY MUTUAL, 15 KILOVOLTS GAS TRAIL.
 4. PROVIDE WITH AOD NEUTRALIZATION KIT.
 5. EQUIP TO BE ASSEMEBLED.
 6. PROVIDE WITH PRESSURE REGULATOR.
 7. PROVIDE WITH CONTROL WIRING SO THAT BOILER CAN RUN WHEN OTHER BOILER IS POWERED OFF.
 EQUALS BY AERCO, FLUTON

VAV BOX SCHEDULE

MARK	ROOMS	BASIS OF DESIGN	SIZE	TYPE	MAX AIRFLOW	PRIMARY AIR MIN	HEATING AIRFLOW	COIL TEMPERATURE (ENTERING/LEAVING)	COIL LOAD	REHEAT COIL (GPM) (RUNOUT) (DELTA)	INLET SIZE	NOTES	
VAV-11	15 CLASS	TRANE VAVF	10	SINGLE DUCT	900	150	760	55F/95F	32200 Btu/h	2.0 3/4"	30F	10'	H-6
VAV-12	13 CLASS	TRANE VAVF	10	SINGLE DUCT	1250	200	1000	55F/95F	47500 Btu/h	3.0 3/4"	30F	10'	H-6
VAV-13	A CORR WEST	TRANE VAVF	08	SINGLE DUCT	525	75	420	55F/95F	18100 Btu/h	1.25 1/2"	30F	8'	H-6
VAV-14	A CORR EAST/TLT	TRANE VAVF	10	SINGLE DUCT	1250	200	1000	55F/95F	47500 Btu/h	3.0 3/4"	30F	10'	H-6
VAV-15	101 WORKROOM/TLT	TRANE VAVF	06	SINGLE DUCT	425	60	320	55F/95F	13825 Btu/h	1.0 1/2"	30F	6'	H-6
VAV-16	101 RECEPTIONAL OFFICE	TRANE VAVF	06	SINGLE DUCT	360	60	320	55F/95F	13825 Btu/h	1.0 1/2"	30F	6'	H-6
VAV-17	100 LOBBY	TRANE VAVF	08	SINGLE DUCT	750	150	600	55F/95F	25920 Btu/h	1.75 1/2"	30F	8'	H-6
VAV-18	101 H/J OFFICES	TRANE VAVF	06	SINGLE DUCT	250	40	200	55F/95F	8640 Btu/h	0.5 1/2"	30F	6'	H-6
VAV-19	101 F/G OFFICES	TRANE VAVF	06	SINGLE DUCT	275	40	200	55F/95F	8640 Btu/h	0.5 1/2"	30F	6'	H-6
VAV-20	10M BREAK	TRANE VAVF	06	SINGLE DUCT	400	60	320	55F/95F	13825 Btu/h	1.0 1/2"	30F	6'	H-6
VAV-21	101 A/B OFFICES	TRANE VAVF	06	SINGLE DUCT	250	40	200	55F/95F	8640 Btu/h	0.5 1/2"	30F	6'	H-6
VAV-22	101 C/D OFFICES	TRANE VAVF	06	SINGLE DUCT	275	40	200	55F/95F	8640 Btu/h	0.5 1/2"	30F	6'	H-6
VAV-23	19 CLASS	TRANE VAVF	10	SINGLE DUCT	900	150	760	55F/95F	32200 Btu/h	2.0 3/4"	30F	10'	H-6
VAV-24	120 CLASS	TRANE VAVF	10	SINGLE DUCT	900	150	760	55F/95F	32200 Btu/h	2.0 3/4"	30F	10'	H-6

- NOTES:
 1. PROVIDE WITH 120 VOLT TO 24 VOLT TRANSFORMER WITH DISCONNECT.
 2. PROVIDE WITH FIELD MOUNTED CONTROLS.
 3. CONTROL VIA BUILDING AUTOMATION SYSTEM.
 4. PROVIDE WITH INLET AIR FLOW PROBE.
 5. PROVIDE ACCESS PANEL IN BOTTOM OF UNIT BETWEEN DAMPER AND COIL.
 6. PROVIDE 1 ROW COIL WITH MAXIMUM AIR PRESSURE DROP OF 0.6" AT COOLING AIRFLOW AND 5 FOOT WATER PRESSURE DROP.
 EQUALS BY CARRIER, PRICE, TITUS, METALARE

EXHAUST FAN SCHEDULE

MARK	BASIS OF DESIGN	SERVICE	TYPE	CFM	RPM	HP/AMPS	S.P.	POWER	NOTES
EF-1	COOK HOOD	TLT/JAN	N/INE	100	531	1/3 HP	0.75'	120/1	I-3
EF-2	COOK HOOD	MICHELE/ROBBER	FRV BELT	2500	853	3/4 HP	0.5'	208/1	124-73M
EF-3	COOK HOOD	WELDING	FRV BELT	3600	1213	1.0 HP	0.5'	208/1	136-10
EF-4	COOK HOOD	ROBOTICS	FRV BELT	1500	960	1/2 HP	0.5'	208/1	136-10

- NOTES:
 1. PROVIDE WITH DISCONNECT SWITCH.
 2. PROVIDE WITH BACKDRIFT DAMPERS.
 3. CONTROL VIA BUILDING AUTOMATION SYSTEM.
 4. CONTROL VIA THERMOSTAT.
 5. INTERLOCK OPERATION WITH OUTSIDE AIR LOUVER.
 6. PROVIDE WITH MOTOR/SIDE GUARD AND WALL COLLAR.
 7. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
 8. PROVIDE WITH STARTER LOCATE FOR MANUAL OPERATION.
 9. PROVIDE WITH LOUVER. COORDINATE EXACT LOUVER SIZE WITH MASONRY OPENING.
 10. MAXIMUM FAN SIZE TO BE 36" W x 36" H.
 11. MAXIMUM FAN SIZE TO BE 32" W x 32" H.
 EQUALS BY GREENHECK, AMERICAN COOLAIR

GRILLE & DIFFUSER SCHEDULE

MARK	BASIS OF DESIGN	SERVICE	TYPE	MAX. CFM	FACE SIZE	NECK SIZE	NOTES
AA	PRICE SCD 4	SUPPLY	SURFACE MOUNT	100	8X8	6"	I-3
A	PRICE SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	100	24X24	6"	I-3
B	PRICE SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	200	24X24	8"	I-3
C	PRICE SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	300	24X24	10"	I-3
D	PRICE 30	SUPPLY	DUCT MOUNTED	350	20X6	20X6	I-2,4
E	PRICE 30	SUPPLY	DUCT MOUNTED	500	22X6	22X6	I-2,4
F	PRICE 30	SUPPLY	DUCT MOUNTED	750	24X8	24X8	I-2,4
G	PRICE 30	SUPPLY	DUCT MOUNTED	150	6X6	6X6	I-2,4
H	PRICE 30	SUPPLY	SIDEWALL	200	12X4	12X4	I-2,5
I	PRICE 1EP 15A	SUPPLY	LINEAR SIDEWALL	750	120X4	14"	I-2,5
RA	PRICE 290	RETURN	LOUVERED LAY-IN	1000	24X24	SEE DWG	I-3
EA	PRICE 200	EXHAUST	LOUVERED LAY-IN	1000	24X24	SEE DWG	I-3
EB	PRICE 200	EXHAUST	SURFACE MOUNT	200	10X10	SEE DWG	I-2,5

- NOTES:
 1. COORDINATE FINISH WITH ARCHITECT.
 2. GRILLE TO HAVE FULLY LOUVERED FACE.
 3. PROVIDE WITH INSULATED SHEET METAL PLENUM.
 4. PROVIDE WITH EXTRACTOR AND FRAME FOR DUCT MOUNTING.
 5. FRAME FOR SURFACE MOUNTING.
 EQUALS BY TITUS, METALARE

SPLIT SYSTEM A/C SCHEDULE

INSIDE UNIT				OUTSIDE UNIT			
MARK	BASIS OF DESIGN	CFM	F.L.A.	MARK	BASIS OF DESIGN	COOLING CAPACITY	ELECTRICAL POWER (MCA) (MCCP)
FC-7	MITSUBISHI MST-GLODIA	375	0.76	CU-7	MITSUBISHI MUT-GLODIA	9.0 MEB	208/1 7

- NOTES:
 1. PROVIDE FUSIBLE DISCONNECT ON OUTDOOR UNIT.
 2. PROVIDE MOTOR RATED SWITCH FOR INDOOR UNIT.
 3. PROVIDE WITH CONDENSATE PUMP AND ROUTE DISCHARGE TO HUB DRAIN ON MEZZANINE.
 4. PROVIDE WITH WIRED THERMOSTAT.

ELECTRIC UNIT HEATER SCHEDULE

MARK	BASIS OF DESIGN	LOCATION	CFM	CAPACITY (BTU)	ELECTRICAL (A) (V) (P)	POWER	NOTES
UH-1	SEZTOR FC-1	RISE	160	5125	125 15	120/1	I-3
UH-2	SEZTOR EGEB-3	MECH	30	17,000	15.6 7.5	480/3	I-2,4
UH-3	SEZTOR EGEB-3	ELEC.	90	10,000	6.25 3.0	480/3	I-2,4

- NOTES:
 1. PROVIDE WITH POWER FUSIBLE DISCONNECT.
 2. PROVIDE WITH INTEGRAL THERMOSTAT.
 3. PROVIDE WITH SURFACE MOUNTING KIT.
 4. SUSPEND UNIT FROM STRUCTURE PER MANUFACTURE'S INSTRUCTIONS.
 EQUALS BY GMAK, MARLEY

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO REVISION DATE

J K F
 ARCHITECTURE

PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING
 WINTERVILLE, NC

MECHANICAL SCHEDULES

SCALE	DRAWING NO.
AS NOTED	
DRAWN: BWF	
CHECKED: BWF	
DATE: 2-15-2024	
PROJECT NO: 2022-07	

M7.1

SYMBOL LEGEND

Table with 3 columns: SYMBOL, DESCRIPTION, and REMARKS. Contains various electrical symbols and their corresponding notes.

NOTE:
1. MANUFACTURERS AND PART NUMBERS SHOWN IN LEGEND ARE FOR GUIDELINE. EQUIVALENT PRODUCTS ARE ACCEPTABLE.
2. WIRING DEVICE NOTES:
- ** DEVICE COLOR SHALL BE WHITE.
- ALL INDOOR DEVICES SHALL BE WITH STAINLESS PLATE COVERS.
- ACCEPTABLE PRODUCTS BY: HUBBELL, LEGRAND, EATON, LEVITON.
3. LINE VOLTAGE OCCUPANCY SWITCHES AND LOW VOLTAGE OCCUPANCY CONTROL SHOWN ON THIS PLAN ARE FOR GUIDELINE.
- ACCEPTABLE PRODUCTS BY: SENSORKWOK, ACUTY, HUBBELL, LEGRAND, EATON, LEVITON.
4. FOR WALL MOUNTED DEVICES, SEE DETAIL M3(A/B) FOR TYPICAL MOUNTING HEIGHT. CONFIRM MOUNTING HEIGHT WITH ARCHITECT PRIOR TO START WORK.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT. PROTECT THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
3. USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
4. ALL BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
5. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70E).
6. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
7. THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK AND MILLWORK TO BE FINISHED.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS. SEE DETAILS FOR CONNECTION TO EQUIPMENT PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS.
9. PENETRATION:
- WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED U.L. METHODS.
- WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.
10. ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR.
11. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
12. THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS.
13. AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
14. THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES. ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
15. ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER THIRTYTWO WIRE. ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75C. ONLY THIRTYTWO WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
16. MINIMUM WIRE AND CONDUIT SIZES:
- MINIMUM WIRE SIZE SHALL BE #12 AWG.
- MINIMUM CONDUIT SIZE INSIDE BUILDING SHALL BE 1/2".
- MINIMUM CONDUIT SIZE OUTSIDE BUILDING ABOVE GROUND SHALL BE 3/4".
- MINIMUM CONDUIT SIZE UNDER GROUND SHALL BE 1".
17. ARMORED CABLE (TYPE AC) AND METAL-CLAD CABLE (TYPE MC) ARE NOT ALLOWED IN THIS PROJECT.
18. THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3). SHARED NEUTRAL IS NOT ALLOWED.
19. WHERE OUTLETS ARE SHOWN BACK TO BACK ON RATED WALLS, STAGGER OUTLETS SO THAT THEY ARE SEPARATED BY A MINIMUM OF 2".
20. ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS.
21. ALL PANELS SHALL BE THREE PHASE, FOUR WIRE UNLESS OTHERWISE NOTED.
22. BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 3-HOUR OR HIGHER RATED WALL. WHEN OUTLETS ARE INDICATED ON THESE WALLS, FIELD COORDINATE CONDUIT AND BOX INSTALLATION.
23. FOR ALL RECEPTACLES LOCATED ABOVE COUNTER TOP MOUNTING HEIGHT SHALL COMPLY WITH ANSI A917, SECTION 308. E.G. SHALL FIELD VERIFY CASEWORK DETAIL WITH ARCHITECT PRIOR TO 'ROUGH-IN'.
24. ELECTRIC UTILITY:
- GREENVILLE UTILITIES IS THE LOCAL UTILITY.
- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE WITH ARCHITECT, ENGINEER AND UTILITY PRIOR TO 'ROUGH-IN' FOR ANY INSTALLATION REQUIRED BY THE LOCAL UTILITY.
- E.G. SHALL OBTAIN COST FROM THE UTILITY AND INCLUDE IN THE BID COST.
25. SEE SPECIFICATIONS.

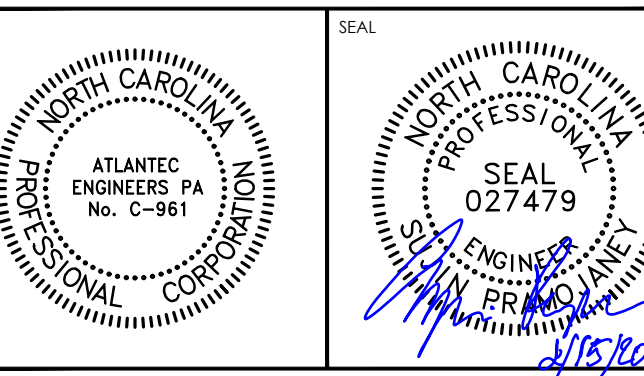
2018 NORTH CAROLINA ENERGY CODE

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE - PRESCRIPTIVE
LIGHTING SCHEDULE:
TABLE with columns: FLOURESCENT T8/T5, LED, CFL, INCAN.

BASE AND ALT. BIDS (#1 AND #2)
TABLE with columns: INTERIOR WATTAGE, SPECIFIED, ALLOWED BY CODE.

NOTES:
1. ** PER SECTION C406.3, THE WHOLE AREA ALLOWED BY CODE IS REQUIRED TO BE 10% LOWER THAN THOSE CALCULATED PER SECTION C406.4.2.
- VALVE CALCULATE PER SECTION C406.4.2: 3275 WATTS
- VALVE PER SECTION C406.3: 29453 WATTS
2. ALL EXTERIOR LIGHTS CONTROLLED BY PHOTOCELL THAT WILL NOT INTENDED TO BE ON FOR 24 HOUR OPERATION.
3. TYPE P1 AND P2 FIXTURES LOCATED UNDER REAR BUILDING CANOPY ARE FOR WELDING WORK OUTSIDE BUILDING. THESE FIXTURES ARE NOT INCLUDED IN THE EXTERIOR CALCULATION PER EXCEPTION #7 OF SECTION C406.3.1.
DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.

SIGNED: [Signature]
NAME: SUJIN PRAMODJANEY, P.E.
TITLE: ENGINEER



MATERIALS KEYING LEGEND

Empty table for materials keying legend.

GENERAL NOTES

Empty table for general notes.

KEY PLAN

Empty table for key plan.

SCO ID #22-25191-01A; NCCCS #2675

NO REVISION DATE table with large 'JKF' logo and 'ARCHITECTURE' text.

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1048

PITT COMMUNITY COLLEGE NEW WELDING BUILDING WINTERVILLE, NC

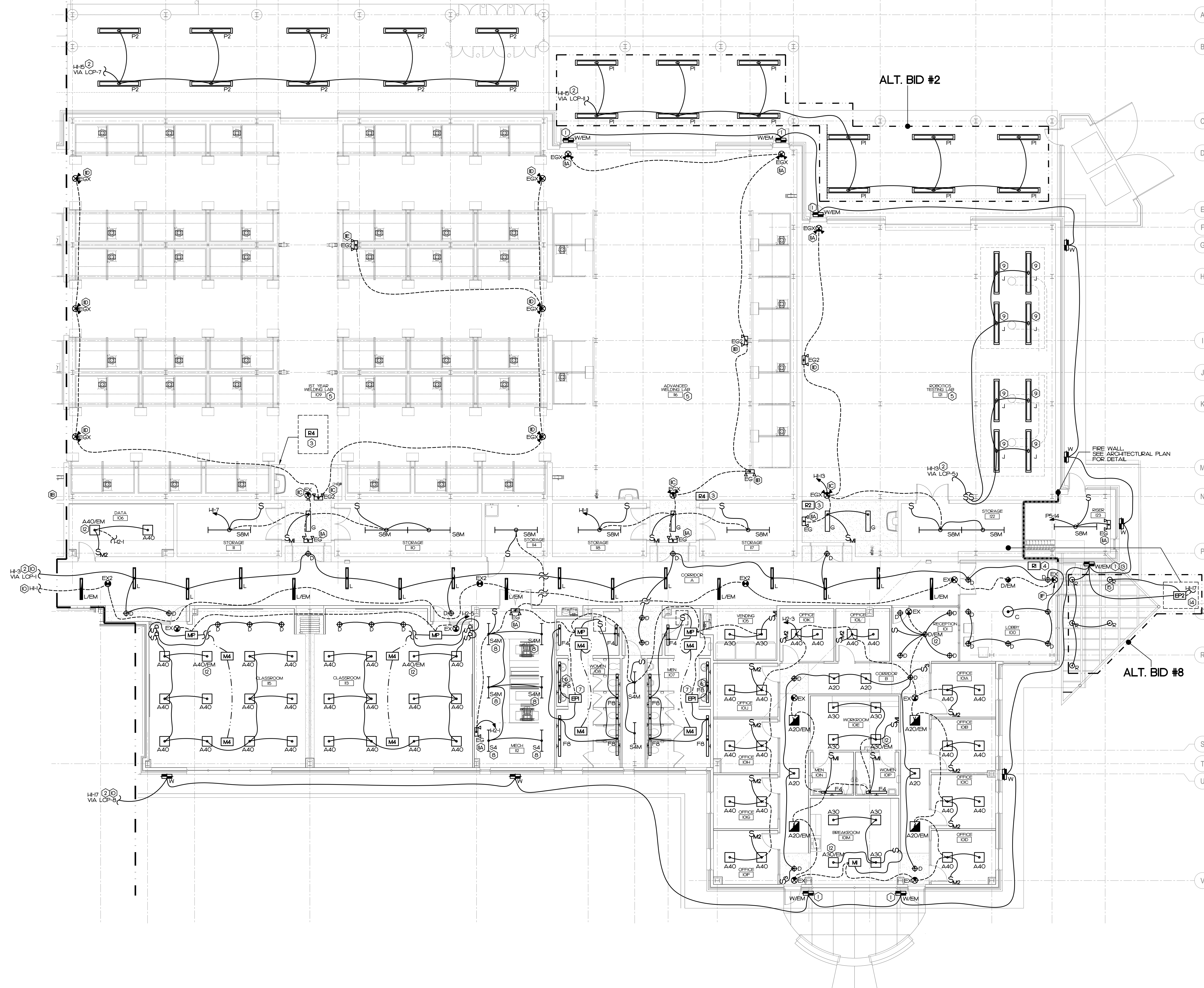
DRAWING TITLE LEGEND NOTES

SCALE: NO SCALE
DRAWN: SP
CHECKED: SP
DATE: 2-15-2024
PROJECT NO: 2022-07
LEGEND: E.O.O.

COORDINATION DRAWINGS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETING TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 0300.

SEE DRAWING ELP-1

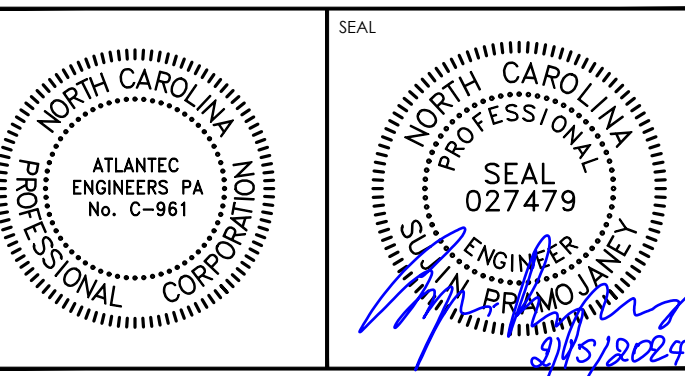


KEY NOTES

- 1 EXTERIOR LIGHT WITH BATTERY BACKUP.
 - CONNECT EMERGENCY CIRCUIT UNSWITCHED TO OKTH H-17.
 - CONNECT NORMAL CIRCUIT VIA LCP-8.
- 2 SWITCHED CIRCUIT VIA LIGHTING CONTROL PANEL LCP. SEE LIVESM.
- 3 LOW VOLTAGE CONTROL SWITCH FOR LAB AREA. LOCATE NEAR LAB POWER CONTROL PANEL. SEE LIVESM.
- 4 LOW VOLTAGE CONTROL SWITCH FOR CORRIDOR. SEE LIVESM.
- 5 SEE AIRBAYS FOR H-BAY LIGHTS IN THIS AREA.
- 6 LIGHT FIXTURE TO BE USED AS EMERGENCY LIGHT. CONTROLLED BY EMERGENCY POWER UNIT PER KEY NOTE #7.
- 7 EMERGENCY POWER UNIT FOR FIXTURE PER KEY NOTE #6.
 - LOCATE AT CEILING PANEL.
 - CONNECT EMERGENCY CIRCUIT UNSWITCHED TO OKTH H-17.
 - CONNECT NORMAL CIRCUIT VIA WALL SWITCH.
- 8 FIELD COORDINATE LIGHT FIXTURE LOCATION WITH M.C. PRIOR TO ROUGH-IN.
- 9 LOCATE FIXTURE AT CEILING OF ROBOTIC HOOD CAPTURE SYSTEM. FIELD COORDINATE INSTALLATION WITH M.C. PRIOR TO ROUGH-IN.
- 10 SEE AIRBAY FOR CONTINUATION.
- 11 WALL MOUNTED EGRESS FIXTURE MOUNTING INFORMATION.
 - ⓐ 8 FT. AFF.
 - ⓑ 10 FT. AFF.
 - ⓒ 11 FT. AFF. (BETWEEN CEILING AND MEZZANINE)
 - ⓓ 14 FT. AFF.
 - ⓔ 16 FT. AFF.
- 12 FIXTURE WITH BATTERY BACKUP.
 - CONNECT EMERGENCY CIRCUIT UNSWITCHED TO HOME RUN.
 - CONNECT NORMAL CIRCUIT VIA WALL SWITCH.
- 13 TYPE W/EM FIXTURE.
 - BASE BID - INSTALL PER PLAN.
 - ALT. BID #8 - DO NOT INSTALL.
- 14 ALT. BID #8 - EMERGENCY BATTERY BACKUP UNIT. LOCATED IN STORAGE 122.
 - CONNECT EMERGENCY CIRCUIT UNSWITCHED TO OKTH H-17.
 - CONNECT NORMAL CIRCUIT VIA LCP-3.
- 15 ALT. BID #8 - FIXTURE TO BE USED AS EXTERIOR EMERGENCY LIGHT. CONTROLLED BY EMERGENCY POWER BACKUP UNIT PER KEY NOTE #14.

NOTES:

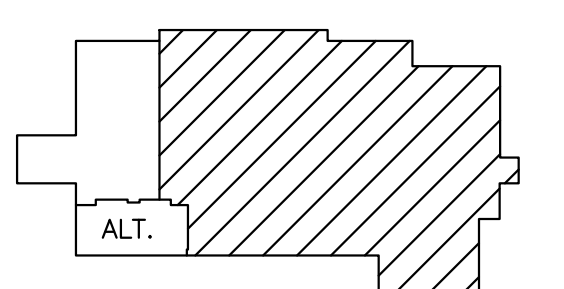
- 1 LOW VOLTAGE WIRING NOTES:
 - a. WIRING IN ACCESSIBLE CEILING SPACE:
 - 1. PER MECHANICAL PLAN, THERE IS NO PLENUM IN ANY ACCESSIBLE CEILING SPACE.
 - 2. EXPOSED WIRING ACCESSIBLE CEILING SPACE IS ALLOWED.
 - b. WIRING IN AREA WITH NO CEILING OR NOT ACCESSIBLE CEILING:
 - 1. ALL WIRING SHALL BE IN CONDUIT.



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO.	REVISION	DATE

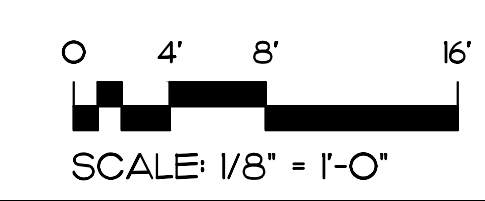
J K F
ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048

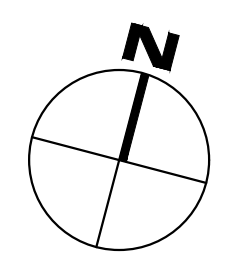
PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC

DRAWING TITLE: **PARTIAL LIGHTING PLAN**

SCALE: 1/8" = 1'-0"	DRAWING NO.
DRAWN: SP	E.I.I.
CHECKED: SP	
DATE: 2-15-2024	
PROJECT NO: 2022-07	



PARTIAL LIGHTING PLAN
1/8" = 1'-0"



A18

COORDINATION DRAWINGS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETING TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 0300.

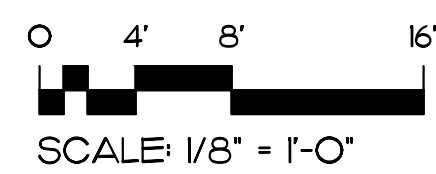
**BASE BID
SEE A18/E1.2**

KEY NOTES

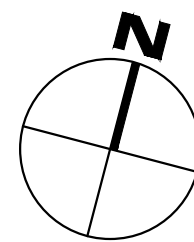
- ① SWITCHED CIRCUIT VIA LIGHTING CONTROL PANEL LCP. SEE F10/E1.1.
- ② FIXTURE WITH BATTERY BACKUP.
 - CONNECT EMERGENCY CIRCUIT UNSWITCHED TO HOME RUN.
 - CONNECT NORMAL CIRCUIT VIA WALL SWITCH.

NOTES:

- 1. LOW VOLTAGE WIRING NOTES:
 - a. WIRING IN ACCESSIBLE CEILING SPACE.
 - b. PER MECHANICAL PLAN, THERE IS NO PLENUM IN ANY ACCESSIBLE CEILING SPACE.
 - c. EXPOSED WIRING ACCESSIBLE CEILING SPACE IS ALLOWED.
- 2. WIRING IN AREA WITH NO CEILING OR NOT ACCESSIBLE CEILING:
 - a. ALL WIRING SHALL BE IN CONDUIT.



**ALT BID #1
PARTIAL
LIGHTING PLAN
1/8" = 1'-0"**



A9

ALT. BID #2

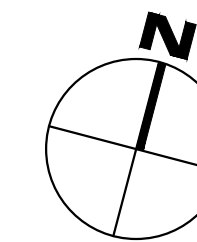
**SEE A9/E1.2
FOR ALT. BID #1**

KEY NOTES

- ① EXTERIOR LIGHT WITH BATTERY BACKUP.
 - CONNECT EMERGENCY CIRCUIT UNSWITCHED TO OTH# H-17.
 - CONNECT NORMAL CIRCUIT VIA LCP-8.
- ② SWITCHED CIRCUIT VIA LIGHTING CONTROL PANEL LCP. SEE L18/E1.1.
- ③ LOW VOLTAGE CONTROL SWITCH FOR LAB AREA. LOCATE NEAR LAB POWER CONTROL PANEL. SEE F10/E1.1.
- ④ LOW VOLTAGE CONTROL SWITCH FOR CORRIDOR. SEE L18/E1.1.
- ⑤ SEE J18/E1.3 FOR H-BAY LIGHTS IN THIS AREA.
- ⑥ SEE A18/E1.1 FOR CONTINUATION.
- ⑦ EGRESS FIXTURE MOUNTING INFORMATION.
 - (A) 8 FT. AFF.
 - (B) 10 FT. AFF.
 - (C) 1 FT. AFF. (BETWEEN CEILING AND MEZZANINE)
- ⑧ 3-WAY SWITCH FOR LIGHT ABOVE MECHANICAL 124. WIRE TO FIXTURE ABOVE THIS AREA. SEE J18/E1.3.
- ⑨ 3-WAY SWITCH FOR LIGHT ABOVE ELECTRICAL 125. WIRE TO FIXTURE ABOVE THIS AREA. SEE J18/E1.3.
- ⑩ PHOTOCELL FOR LIGHTING CONTROL PANEL LCP. SEE DETAIL L18/E1.1. FIELD VERIFY LOCATION TO FACING NORTH WITH ARCHITECT PRIOR TO ROUGH-IN.



**BASE BID
PARTIAL
LIGHTING PLAN
1/8" = 1'-0"**



A18

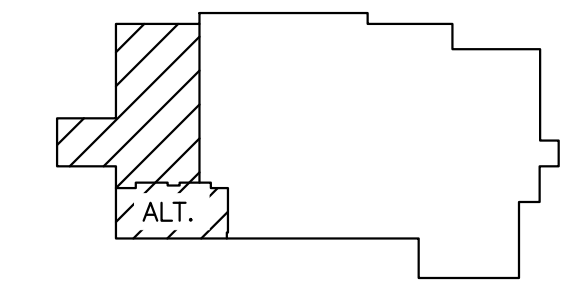
ATLANTEC ENGINEERS, PA
322 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH: (919) 571-1111

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEERS PA No. C-961
SEAL: NORTH CAROLINA PROFESSIONAL ENGINEERS PA No. 027479

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO.	REVISION	DATE

JKF
ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252.355.1048

**PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC**

**PARTIAL
LIGHTING PLAN**

SCALE: 1/8" = 1'-0"	DRAWING NO:
DRAWN: SP	E1.2
CHECKED: SP	
DATE: 2-15-2024	PROJECT NO:
PROJECT NO: 2022-07	

COORDINATION DRAWINGS

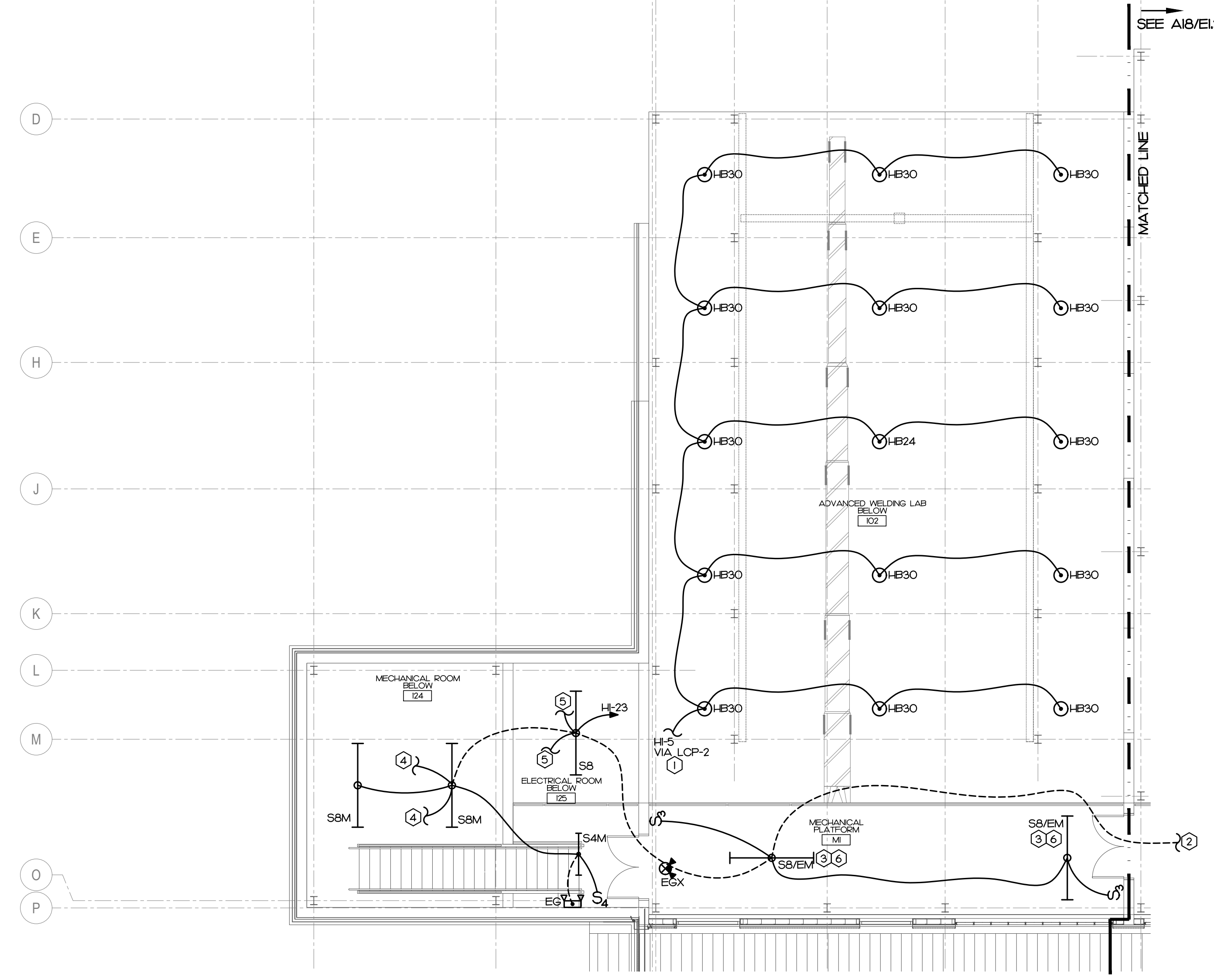
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETINGS TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 0300.

KEY NOTES

- 1 SWITCHED CIRCUIT VIA LIGHTING CONTROL PANEL LCP. SEE LIB/E13.
- 2 SEE A18/E13 FOR CONTINUATION.
- 3 FIELD COORDINATE LIGHT FIXTURE LOCATION WITH M.C. PRIOR TO ROUGH-IN.
- 4 TO 3 WAY SWITCH IN MECHANICAL I24.
- 5 TO 3 WAY SWITCH IN ELECTRICAL I25.
- 6 FIXTURE WITH BATTERY BACKUP.
 - CONNECT EMERGENCY CIRCUIT UNSWITCHED TO HOME RUN.
 - CONNECT NORMAL CIRCUIT VIA WALL SWITCH.

NOTES:

- L LOW VOLTAGE WIRING NOTES:
- WIRING IN ACCESSIBLE CEILING SPACE:
 - a. PER MECHANICAL PLAN, THERE IS NO PLENUM IN ANY ACCESSIBLE CEILING SPACE.
 - b. EXPOSED WIRING ACCESSIBLE CEILING SPACE IS ALLOWED.
 - WIRING IN AREA WITH NO CEILING OR NOT ACCESSIBLE CEILING:
 - a. ALL WIRING SHALL BE IN CONDUIT.



PARTIAL - MECHANICAL PLATFORM LIGHTING PLAN
1/8" = 1'-0" J18

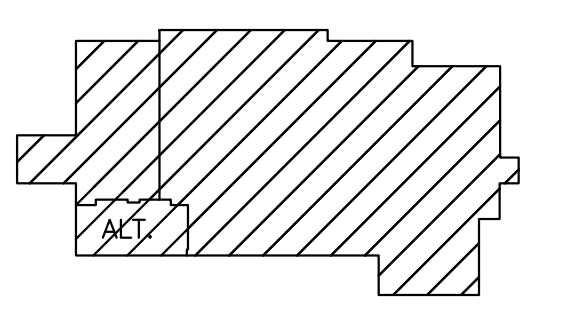
ATLANTEC ENGINEERS, PA
322 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH: 919-578-1111

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEERS & SURVEYORS
ATLANTEC ENGINEERS, PA
No. C-961
SEAL: NORTH CAROLINA PROFESSIONAL ENGINEERS & SURVEYORS
ATLANTEC ENGINEERS, PA
No. 027479

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

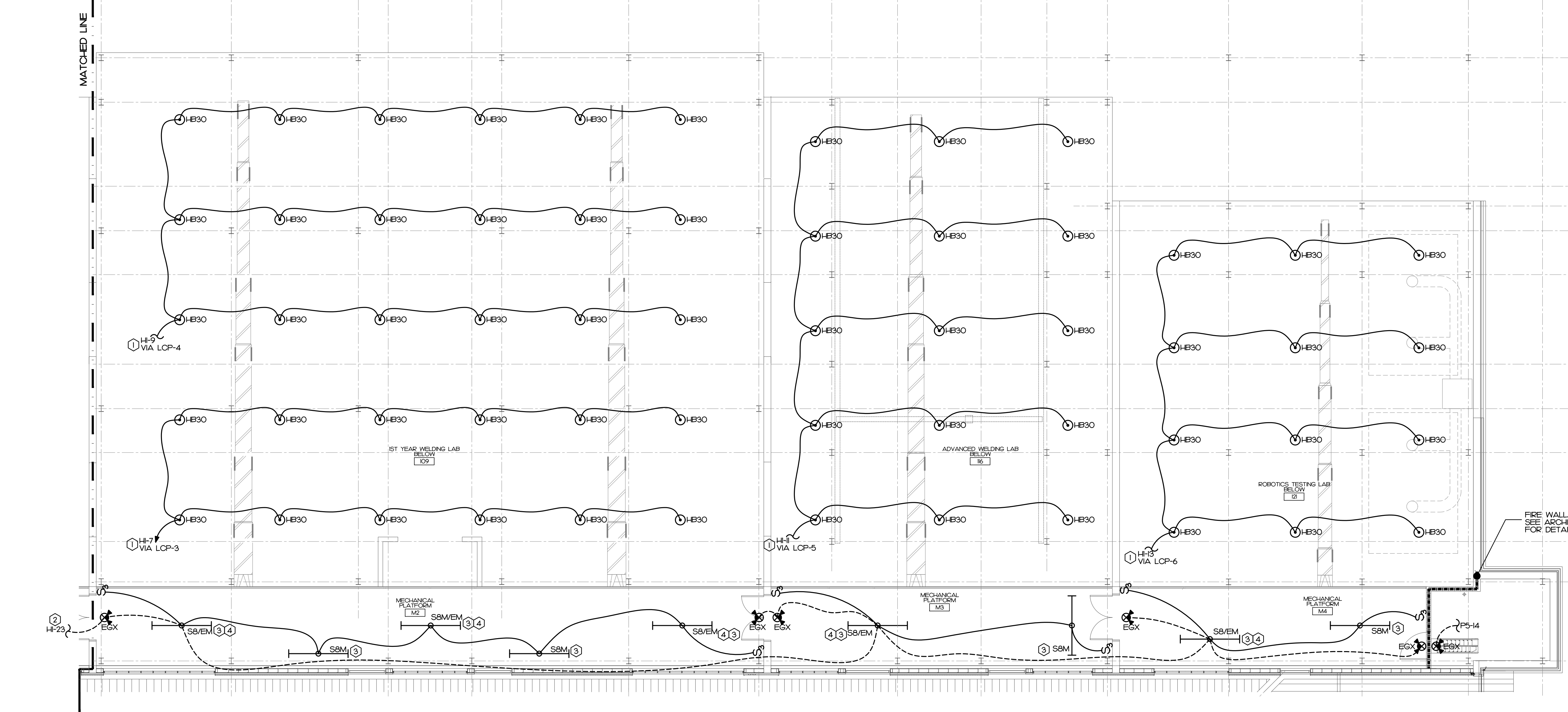
NO.	REVISION	DATE

JKF ARCHITECTURE
425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1048

PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERTVILLE, NC
MECHANICAL PLATFORM LIGHTING PLAN

SCALE	1/8" = 1'-0"	DRAWING NO.	E1.3
DRAWN	SP	CHECKED	SP
DATE	2-15-2024	PROJECT NO.	2022-07

SEE J18/E13



KEY NOTES

- 1 SWITCHED CIRCUIT VIA LIGHTING CONTROL PANEL LCP. SEE LIB/E13.
- 2 SEE J18/E13 FOR CONTINUATION.
- 3 FIELD COORDINATE LIGHT FIXTURE LOCATION WITH M.C. PRIOR TO ROUGH-IN.
- 4 FIXTURE WITH BATTERY BACKUP.
 - CONNECT EMERGENCY CIRCUIT UNSWITCHED TO HOME RUN.
 - CONNECT NORMAL CIRCUIT VIA WALL SWITCH.

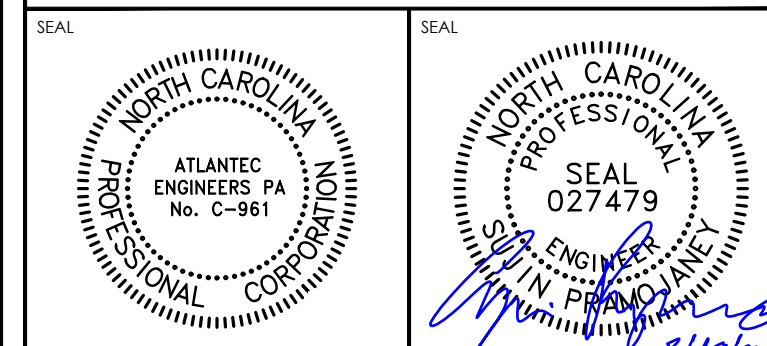
NOTES:

- L LOW VOLTAGE WIRING NOTES:
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PARTIAL - MECHANICAL PLATFORM LIGHTING PLAN
1/8" = 1'-0" A18

COORDINATION DRAWINGS

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MATERIALS KEYING LEGEND

KEY NOTES

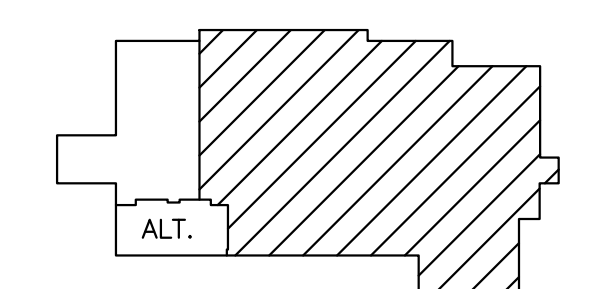
- 1ST YEAR WELDING LAB 109
 - 1. TRACK BUSWAY ABOVE WELDING BOOTH.
 - 2. 250A, 480VAC, 3P, 3W WITH GROUND, 40 FT. APPROX. LENGTH.
 - 3. 60A, 480VAC, 3P FUSEBLE DISCONNECT.
 - 4. 30A, 480VAC, 1P FUSEBLE DISCONNECT.
 - 5. PROVIDE FINAL CONNECTION TO EQUIPMENT AS SHOWN IN DETAIL N9/E31.
 - 6. PROVIDE FEEDING SECTION AT END WALL AND CONNECT TO FEEDER CONDUIT FROM MCC.
 - 7. PROVIDE ALL ACCESSORIES FOR MOUNTING TO STEEL STRUCTURE PER MANUFACTURER INSTRUCTION.
 - 8. SEE DETAIL N9/E31 AND J9/E31.
2. WELDING BOOTH - SEE NOTE #2. SEE DETAIL N9/E31 AND J9/E31 FOR TYPICAL INSTALLATION.
3. POWER CONTROL PANEL FOR LAB 106. SEE DETAIL A3/E21 AND J9/E31. ADVANCED WELDING LAB 16:
 - 1. WELDING BOOTH - SEE NOTE #3. SEE DETAIL E9/E31 AND A9/E31 FOR TYPICAL INSTALLATION.
 - 2. RECEPTACLE AND DISCONNECT SWITCH FOR MOBILE WELDER. PROVIDE:
 - a. NEMA 6-500 RECEPTACLE FOR MILLERMATIC 252.
 - b. 60A, 480VAC, NEMA 1 FUSEBLE DISCONNECT. PROVIDE WITH 50A FUSES FOR SHEAR. CONNECTION TO EQUIPMENT BY OWNER.
 - c. CONNECTION TO EQUIPMENT BY OWNER.
 - d. SEE DETAIL A9/E31 FOR TYPICAL INSTALLATION.
 - 3. RECEPTACLE AND DISCONNECT SWITCH FOR MOBILE WELDER AND SHEAR (SEE ITEM #8 IN A9/E31). PROVIDE:
 - a. NEMA 6-500 RECEPTACLE FOR MILLERMATIC 252. CONNECTION TO EQUIPMENT BY OWNER.
 - b. 60A, 480VAC, NEMA 1 FUSEBLE DISCONNECT. PROVIDE WITH 50A FUSES FOR SHEAR. PROVIDE CONNECTION TO EQUIPMENT AS SHOWN IN DETAIL A9/E31.
 - c. CONNECTION TO EQUIPMENT BY OWNER.
4. POWER CONTROL PANEL FOR LAB 12. SEE DETAIL A9/E21 AND J9/E31.
5. DISCONNECT SWITCH FOR MOBILE ROBOTIC WELDER (SEE ITEM #8 IN A9/E31). PROVIDE 60A, 480VAC, NEMA 1 FUSEBLE DISCONNECT. PROVIDE WITH 50A FUSES. FINAL CONNECTION TO EQUIPMENT BY OWNER. EXTERIOR MOBILE EQUIPMENT POWER:
 - 1. RECEPTACLES AND DISCONNECT SWITCH FOR MOBILE EQUIPMENT. PROVIDE:
 - a. DEDICATED CIRCUIT QUAD RECEPTACLE.
 - b. NEMA 6-500 RECEPTACLE FOR MILLERMATIC 252.
 - c. 60A, 480VAC, NEMA 1 FUSEBLE DISCONNECT. PROVIDE WITH 50A FUSES FOR SHEAR. CONNECTION TO EQUIPMENT BY OWNER.
 - d. CONNECTION TO EQUIPMENT BY OWNER.
- GENERAL:
 - 1. LOCATE TRANSFORMER APPROX. 10 FT. A.F.F. AND OUTSIDE PANEL BOARD WORKING SPACE PER NEC 100.6(A)(3). FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE MOUNTING HARDWARE AS REQUIRED.
 - 2. RECEPTACLE FOR AUTO FAUCET TO PLUG-IN. LOCATED UNDER SINK. FIELD VERIFY EXACT LOCATION WITH P.C. AND ARCHITECT. P.C. TO BE ROUNDED TO MATCH SINK. CONNECT TO LOAD SIDE OF OTHER GFCI RECEPTACLE.
 - 3. DISCONNECT FOR EXHAUST FAN. FAN IS CONTROLLED BY THERMOSTAT. WIRE TO THERMOSTAT PER MFG. INSTRUCTION.
 - 4. ADA DOOR AND PUSH BUTTONS:
 - a. DOOR IS FURNISHED AND INSTALLED BY G.C.
 - b. ADA PUSH BUTTONS ARE FURNISHED BY G.C.
 - c. E.C. SHALL PROVIDE.
 - d. POWER CONNECTION WITH DISCONNECT SWITCH.
 - e. INSTALL ALL PUSH BUTTONS.
 - f. PROVIDE ALL WIRING PER MANUFACTURER INSTRUCTION.
 - 5. CONDUIT RUN UNDER SLAB.
 - 6. SECURED DOOR:
 - a. DOUBLE DOOR. SEE DETAIL N9/E31.
 - b. SINGLE DOOR. SEE DETAIL J9/E31.

NOTES:

1. LOW VOLTAGE WIRING NOTES:
 - a. WIRING IN ACCESSIBLE CEILING SPACE:
 - 1. PER MECHANICAL PLAN, THERE IS NO PLENUM IN ANY ACCESSIBLE CEILING SPACE.
 - 2. EXPOSED WIRING ACCESSIBLE CEILING SPACE IS ALLOWED.
 - b. WIRING IN AREA WITH NO CEILING OR NOT ACCESSIBLE CEILING:
 - 1. ALL WIRES SHALL BE IN CONDUIT.
2. ALT. BID #91A: THIS ALTERNATE IS APPLIED TO ALL WELDING BOOTHS LOCATED IN 1ST YEAR WELDING LAB. TOTAL OF 72 WELDING BOOTHS.
 - 1. BASE BID PROVIDE ALL DISCONNECTS AT BUSWAY. NO FINAL CONNECTION TO EQUIPMENT.
 - 2. ALT. BID #91A PROVIDE FINAL CONNECTIONS TO EQUIPMENT.
3. ALT. BID #91B: THIS ALTERNATE IS APPLIED TO ALL WELDING BOOTHS LOCATED IN ADVANCED WELDING LAB. TOTAL OF 72 WELDING BOOTHS.
 - 1. BASE BID PROVIDE ALL DISCONNECTS AT STEEL BEAM. NO FINAL CONNECTION TO EQUIPMENT.
 - 2. ALT. BID #91B PROVIDE FINAL CONNECTIONS TO EQUIPMENT.
4. E.C. SHALL SUBMIT CONDUIT ROUTING FOR INSTALLATION IN ADVANCED 1ST YEAR WELDING LAB 109, WELDING LAB 106, AND ROBOTICS TESTING LAB 121 TO ARCHITECT FOR APPROVAL PRIOR TO ROUGH-IN.

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

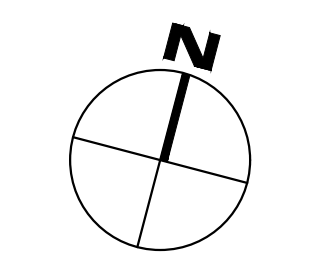
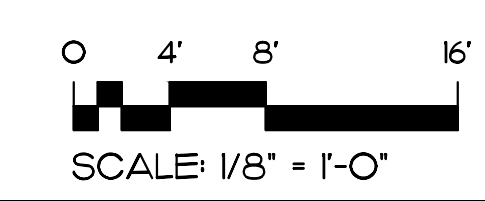
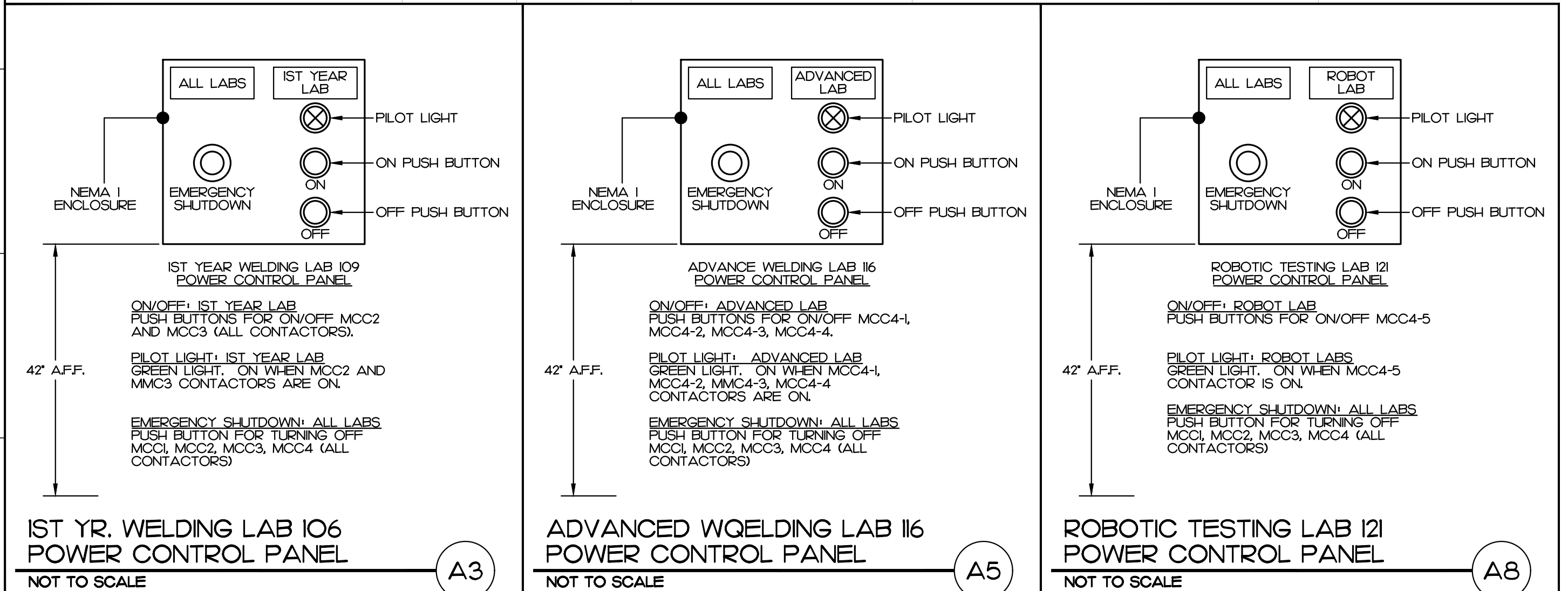
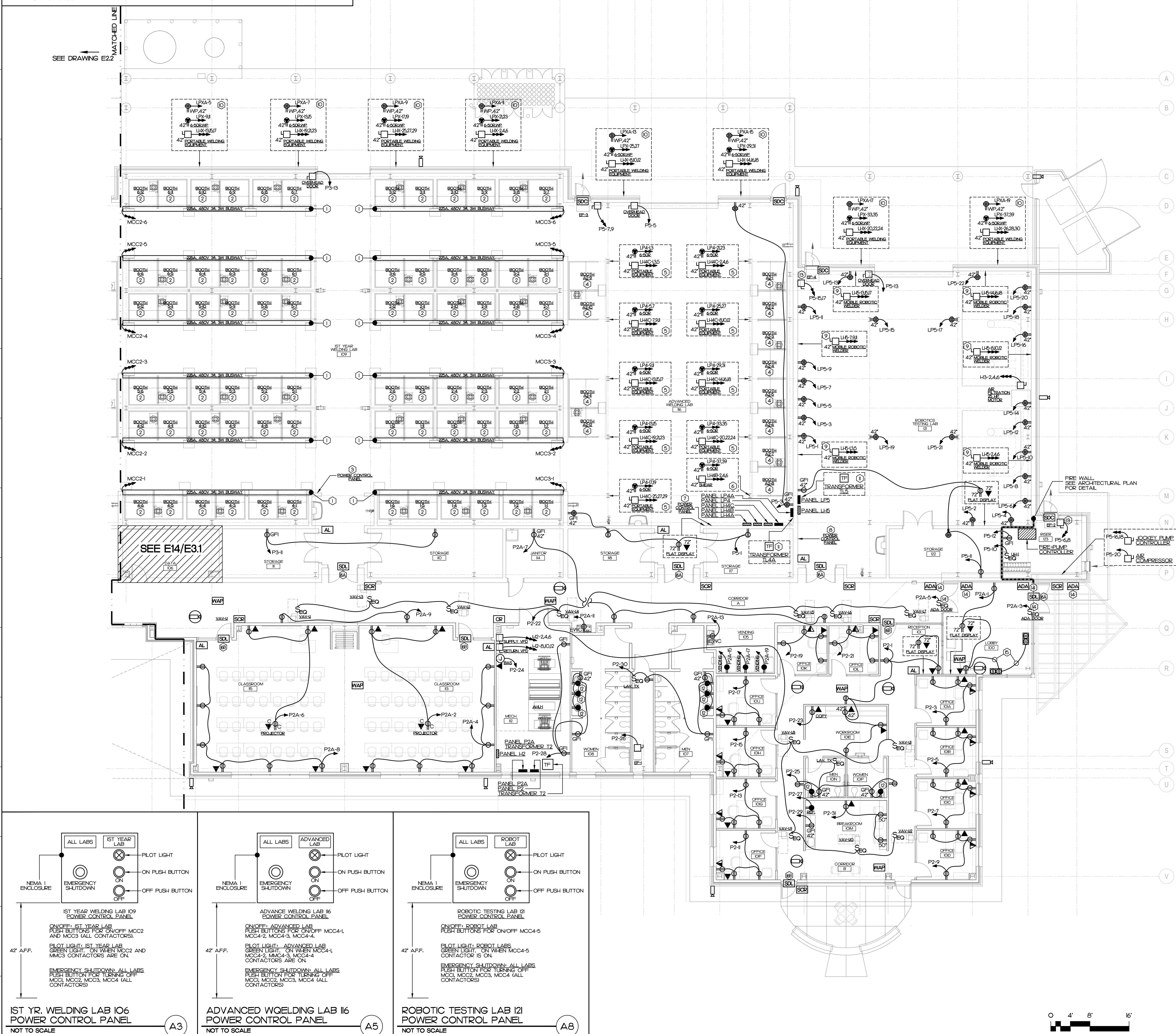


425 LYNDALE CT. SUITE F, GREENVILLE, NC 27608 252-355-1048

**PITT COMMUNITY COLLEGE
NEW WELDING BUILDING**

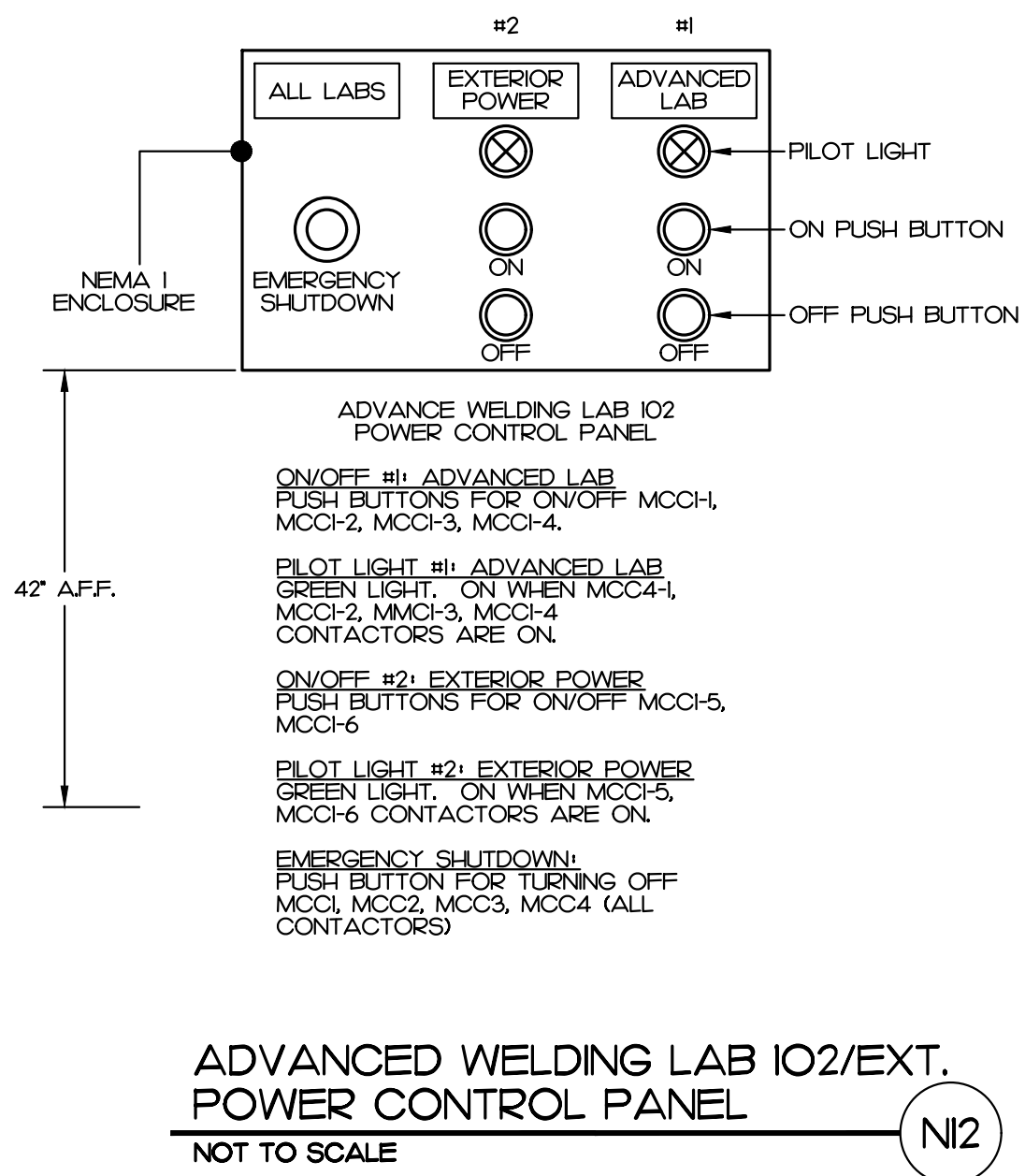
WINTERVILLE, NC
**PARTIAL
POWER PLAN**

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DRAWN	SP	DATE	2-15-2024
CHECKED	SP	PROJECT NO.	2022-07

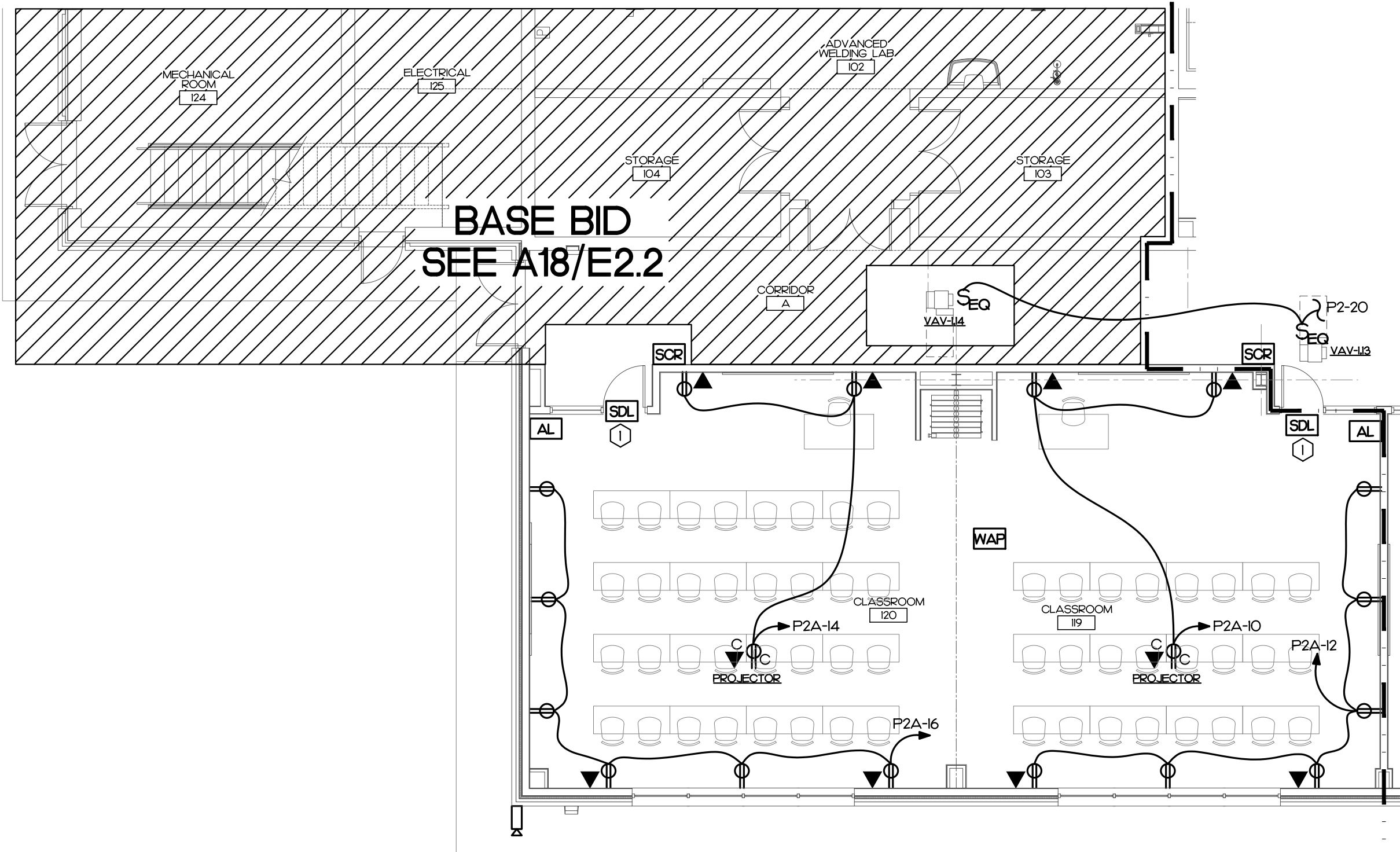


COORDINATION DRAWINGS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETING TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 0300.



ADVANCED WELDING LAB 102/EXT. POWER CONTROL PANEL
NOT TO SCALE



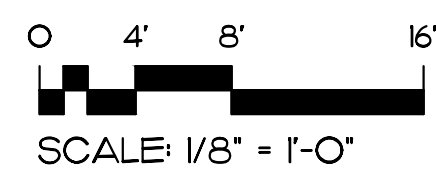
BASE BID
SEE A18/E2.2

KEY NOTES

- 1. SECURED DOOR. SEE DETAIL J9/E5.2.

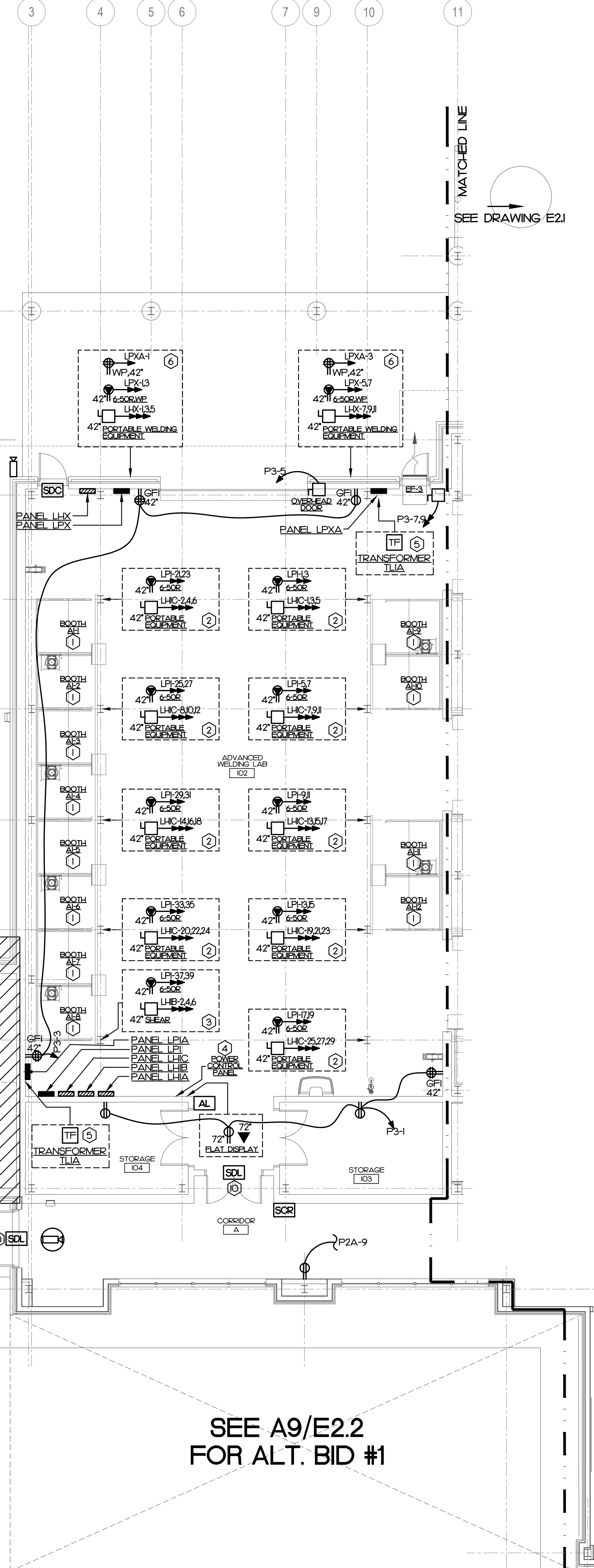
NOTES:

- 1. LOW VOLTAGE WIRING NOTES:
 - a. WIRING IN ACCESSIBLE CEILING SPACE:
 - o PER MECHANICAL PLAN, THERE IS NO PLENUM IN ANY ACCESSIBLE CEILING SPACE.
 - b. EXPOSED WIRING ACCESSIBLE CEILING SPACE IS ALLOWED.
- 2. WIRING IN AREA WITH NO CEILING OR NOT ACCESSIBLE CEILING:
 - a. ALL WIRING SHALL BE IN CONDUIT.



ALT BID #1
PARTIAL
POWER PLAN
1/8" = 1'-0"

A9



SEE J18/E3.1

SEE A9/E2.2
FOR ALT. BID #1

KEY NOTES

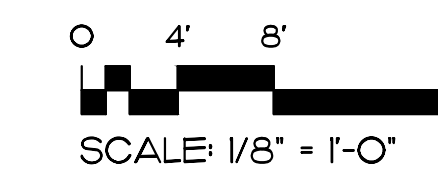
- 1. ADVANCED WELDING LAB 102:
 - 1. WELDING BOOTHS. SEE NOTE #2. SEE DETAIL E9/E31 FOR TYPICAL INSTALLATION.
 - 2. RECEPTACLE AND DISCONNECT SWITCH FOR MOBILE WELDERS.
 - a. PROVIDE:
 - o NEMA 6-50R RECEPTACLE FOR MILLERMATIC 252.
 - o 60A, 480VAC, NEMA 1 FUSIBLE DISCONNECT. PROVIDE WITH 30A FUSES FOR MILLER XMT 350.
 - o CONNECTION TO EQUIPMENT BY OWNER. SEE DETAIL A9/E31 FOR TYPICAL INSTALLATION.
 - 3. RECEPTACLE AND DISCONNECT SWITCH FOR MOBILE WELDER AND SHEAR (SEE ITEM #10 IN ABOVE).
 - a. PROVIDE:
 - o NEMA 6-50R RECEPTACLE FOR MILLERMATIC 252.
 - o CONNECTION TO EQUIPMENT BY OWNER.
 - o 60A, 480VAC, NEMA 1 FUSIBLE DISCONNECT. PROVIDE WITH 30A FUSES FOR SHEAR. PROVIDE CONNECTION TO EQUIPMENT AS REQUIRED.
 - 4. POWER CONTROL PANEL FOR LAB 102. SEE DETAIL N2/E22 AND J8/E5.2.
 - 5. LOCATE TRANSFORMER APPROX. 10 FT. AFF. AND OUTSIDE PANEL BOARD WORKING SPACE PER NEC 100.6(A)(3). FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE MOUNTING HARDWARE AS REQUIRED. EXTERIOR MOBILE EQUIPMENT POWER:
 - 6. RECEPTACLES AND DISCONNECT SWITCH FOR MOBILE EQUIPMENT.
 - a. DESIGNATED CIRCUIT QUAD RECEPTACLE.
 - b. NEMA 6-50R RECEPTACLE FOR MILLERMATIC 252.
 - c. 60A, 480VAC, NEMA 1 FUSIBLE DISCONNECT. PROVIDE WITH 30A FUSES FOR MILLER XMT 350.
 - o CONNECTION TO EQUIPMENT BY OWNER.

GENERAL:

- 7. RECEPTACLE FOR AUTO FAUCET TO FLUSH-N. LOCATED UNDER SINK. FIELD VERIFY EXACT LOCATION WITH P.C. AND ARCHITECT PRIOR TO ROUGH-IN. CONNECT TO LOAD SIDE OF OTHER GFCI RECEPTACLE.
- 8. INSTALLATION AT CHILLER. FIELD COORDINATE INSTALLATION WITH MC. PRIOR TO ROUGH-IN.
- 9. SEE POWER RISER DIAGRAM.
- 10. SECURED DOOR. SEE DETAIL N9/E5.2.

NOTES:

- 1. LOW VOLTAGE WIRING NOTES:
 - a. WIRING IN ACCESSIBLE CEILING SPACE:
 - o PER MECHANICAL PLAN, THERE IS NO PLENUM IN ANY ACCESSIBLE CEILING SPACE.
 - b. EXPOSED WIRING ACCESSIBLE CEILING SPACE IS ALLOWED.
 - c. WIRING IN AREA WITH NO CEILING OR NOT ACCESSIBLE CEILING:
 - o ALL WIRING SHALL BE IN CONDUIT.
- 2. ALT. BID #9B: THIS ALTERNATE IS APPLIED TO ALL WELDING BOOTHS LOCATED IN ADVANCED WELDING LAB 102. TOTAL OF 24 WELDING BOOTHS.
 - a. BASE BID: PROVIDE ALL DISCONNECTS, STEEL BEAM, NO FINAL CONNECTION TO EQUIPMENT.
 - b. ALT. BID #9A: PROVIDE FINAL CONNECTIONS TO EQUIPMENT.
- 3. E.C. SHALL SUBMIT CONDUIT ROUTING FOR INSTALLATION IN ADVANCED 1ST YEAR WELDING LAB 102, WELDING LAB 102, 106 AND ROBOTICS TESTING LAB 121 TO ARCHITECT FOR APPROVAL PRIOR TO ROUGH-IN.



BASE BID
PARTIAL
POWER PLAN
1/8" = 1'-0"

A18

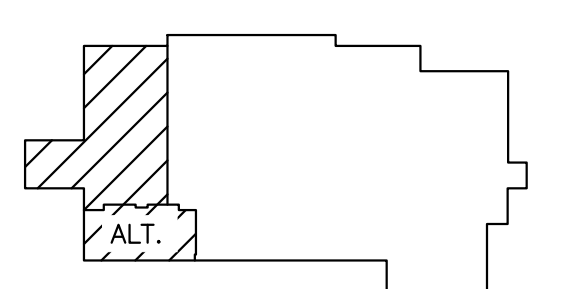
ATLANTEC ENGINEERS, PA
322 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH: 919-571-1111

SEAL: ATLANTIC ENGINEERS PA No. C-961
SEAL: SOUTH CAROLINA PROFESSIONAL ENGINEERS FRANKLIN No. 027479

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO.	REVISION	DATE

J K F
ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27638 252.355.1048

PITT COMMUNITY COLLEGE NEW WELDING BUILDING

WINTEVILLE, NC
PARTIAL
POWER PLAN

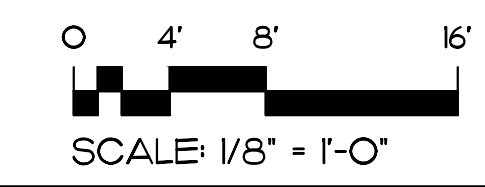
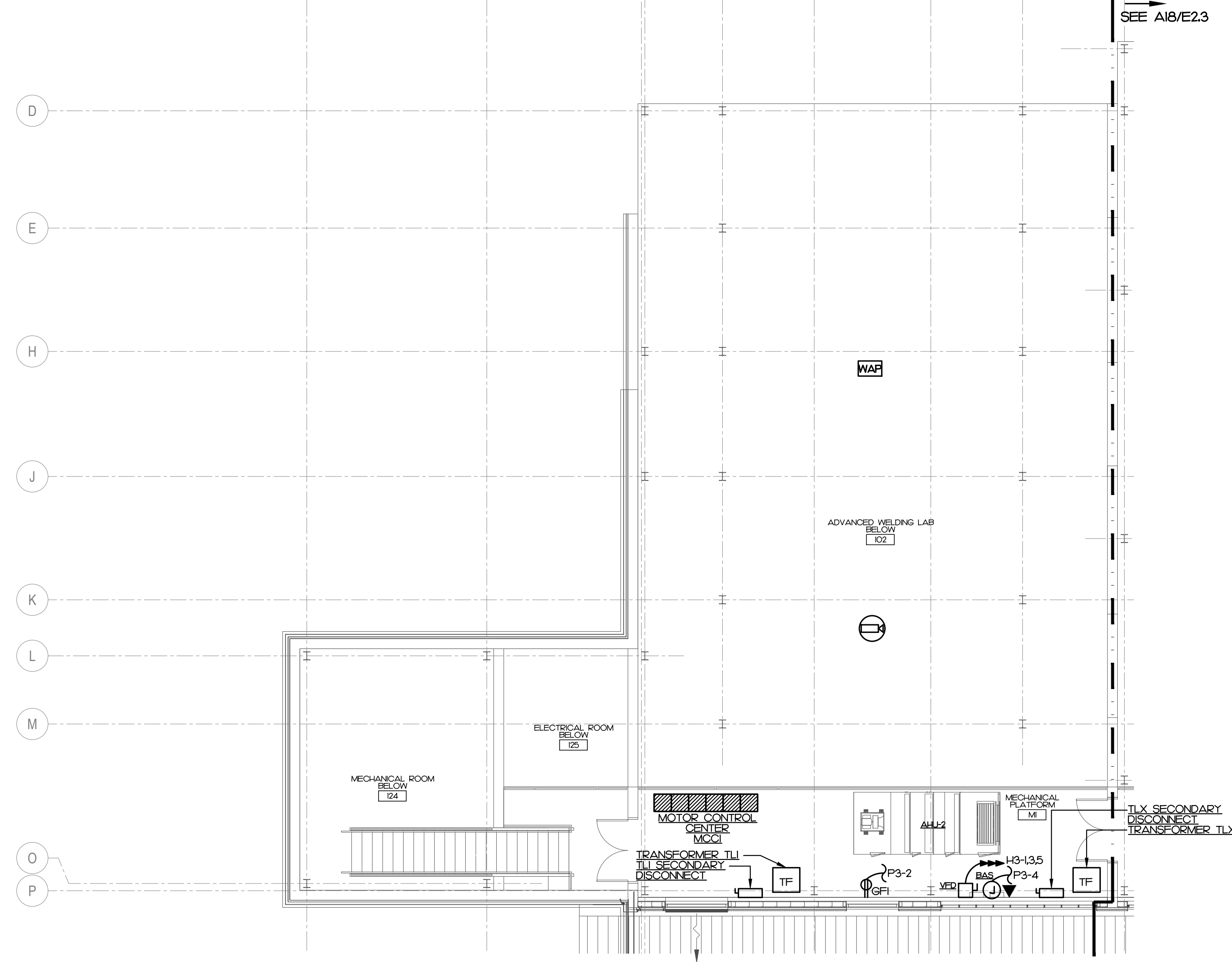
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DRAWN: SP	CHECKED: SP
DATE: 2-15-2024	PROJECT NO: 2022-07

COORDINATION DRAWINGS

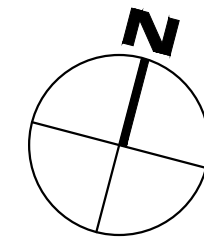
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETING TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 0300.

NOTES:

- 1. LOW VOLTAGE WIRING NOTES:
 - a. WIRING IN ACCESSIBLE CEILING SPACE:
 - α. PER MECHANICAL PLAN, THERE IS NO PLENUM IN ANY ACCESSIBLE CEILING SPACE.
 - β. EXPOSED WIRING ACCESSIBLE CEILING SPACE IS ALLOWED.
- 2. WIRING IN AREA WITH NO CEILING OR NOT ACCESSIBLE CEILING:
 - α. ALL WIRING SHALL BE IN CONDUIT.

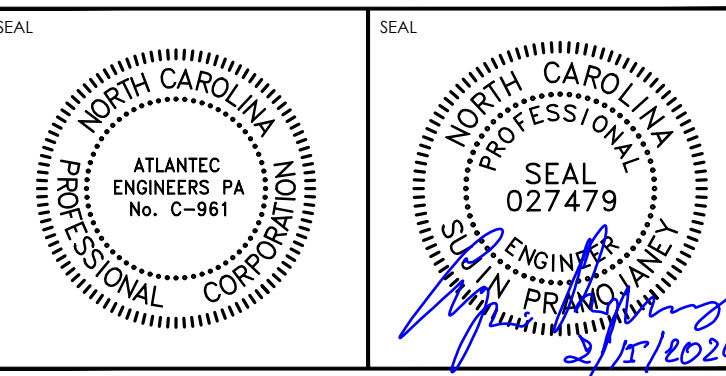


PARTIAL - MECHANICAL PLATFORM POWER PLAN
1/8" = 1'-0"



J18

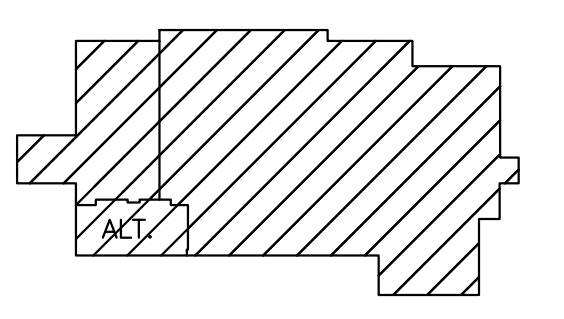
ATLANTEC ENGINEERS, PA
322 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH: (919) 571-1111



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

J K F
ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252.355.1048

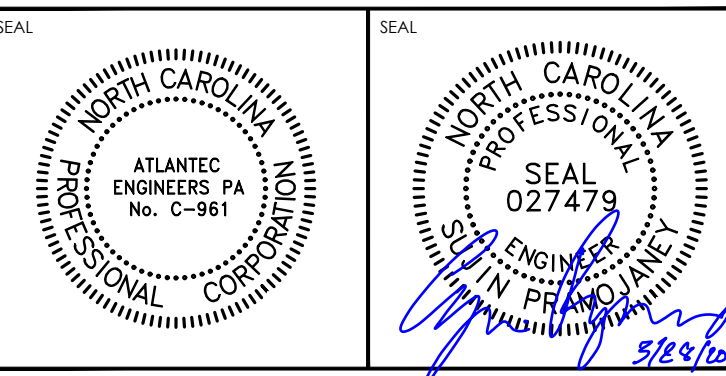
PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC

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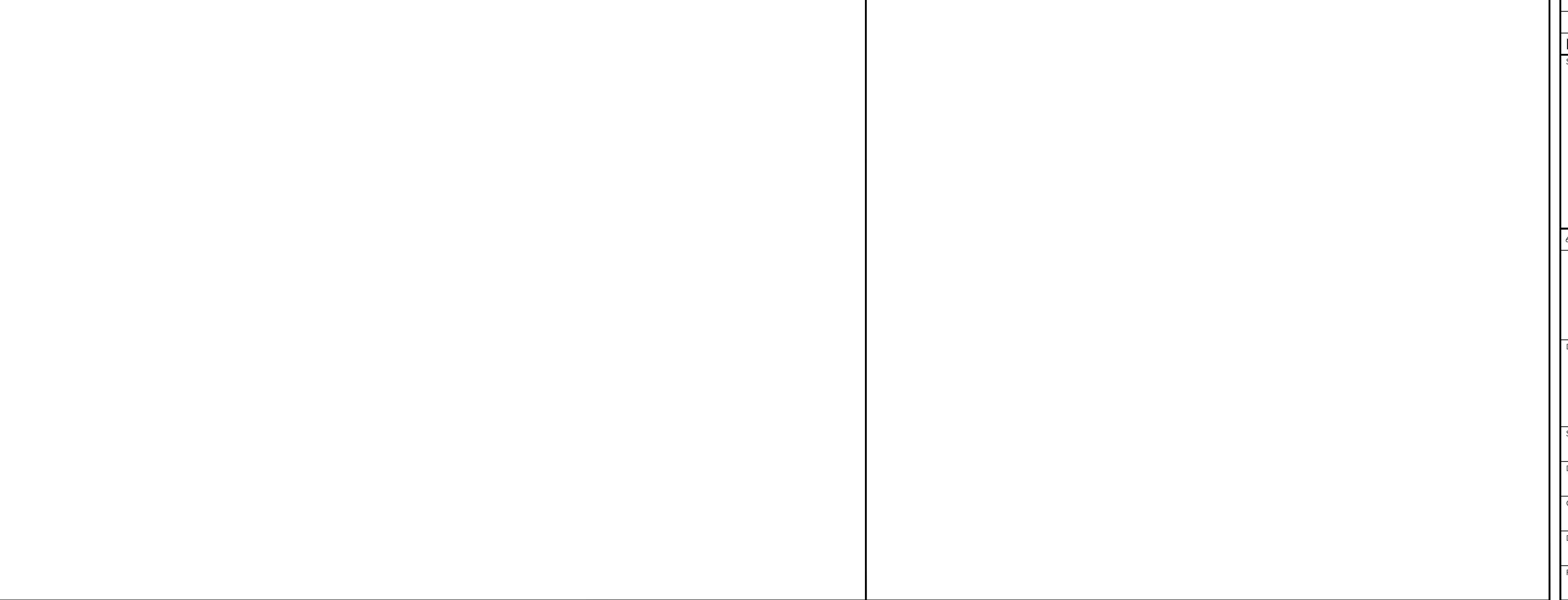
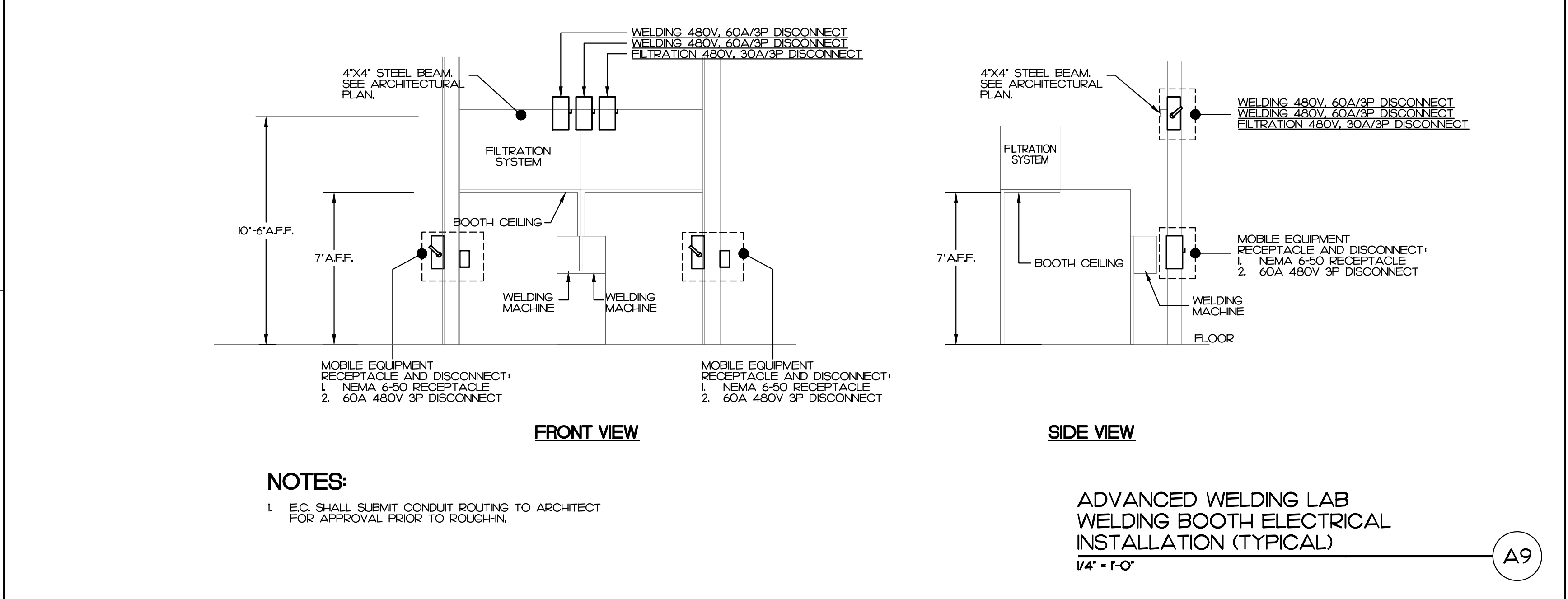
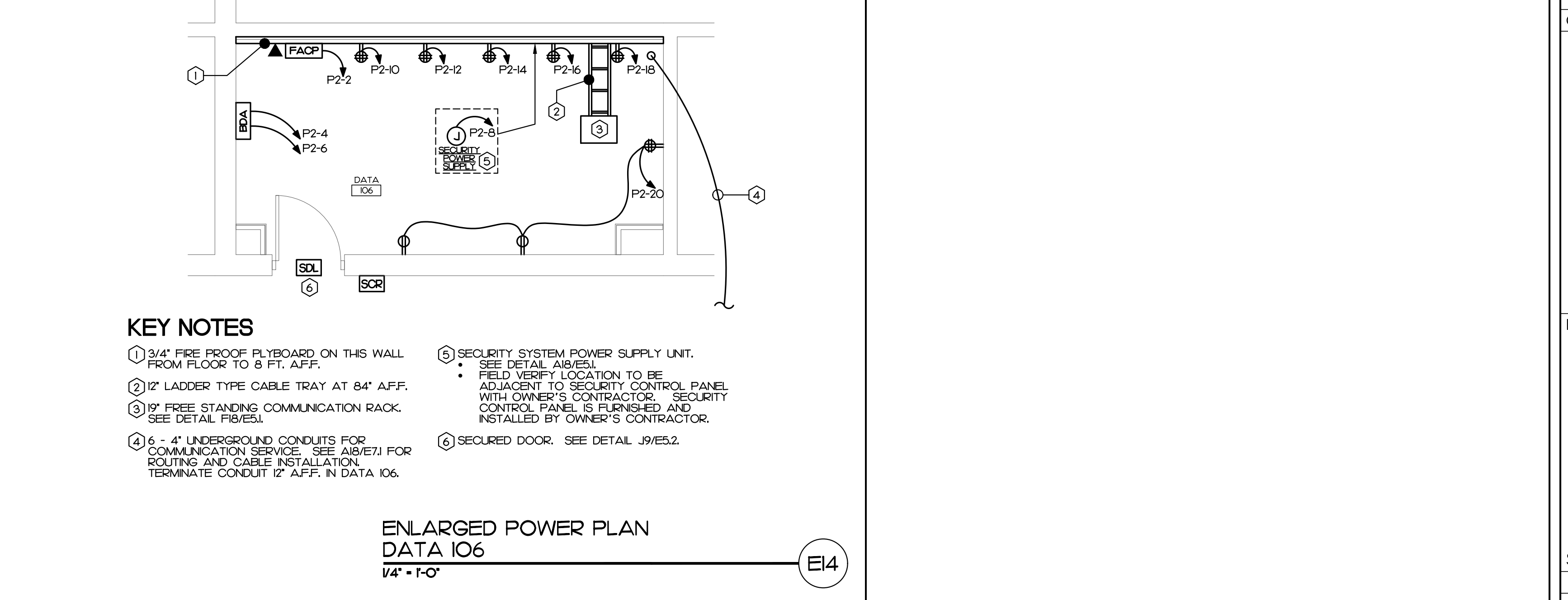
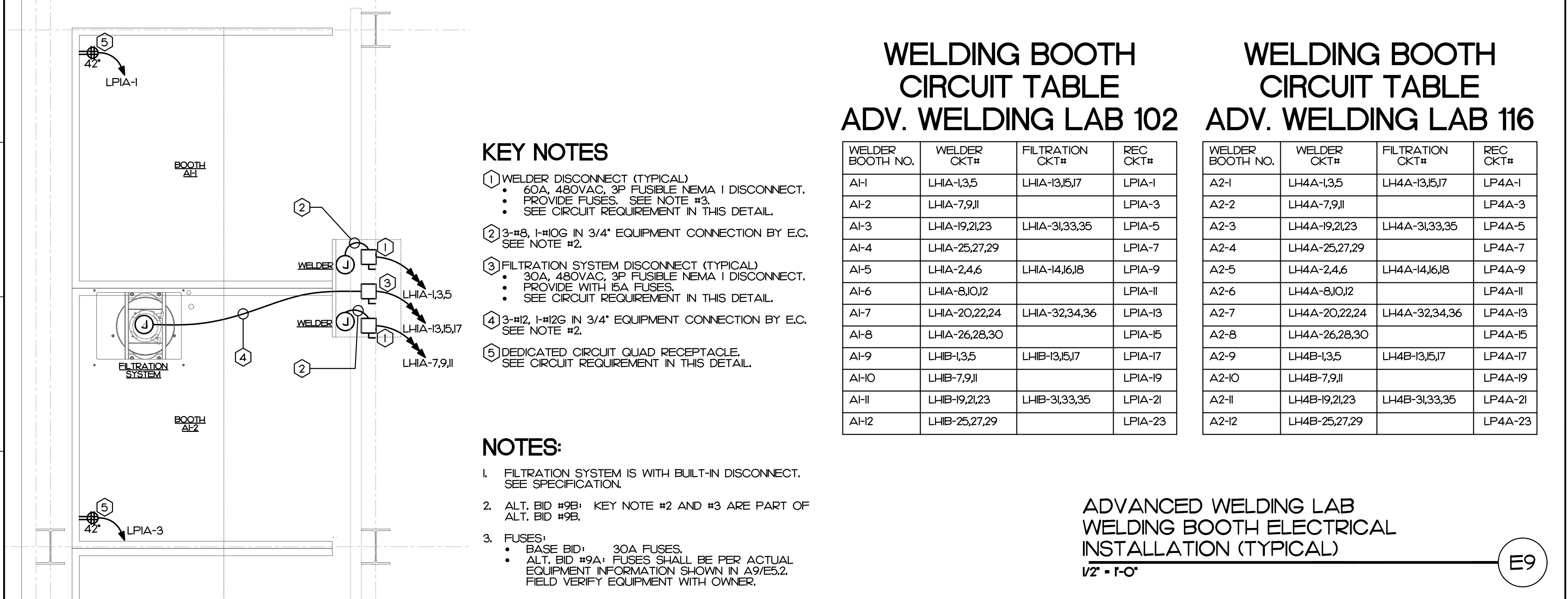
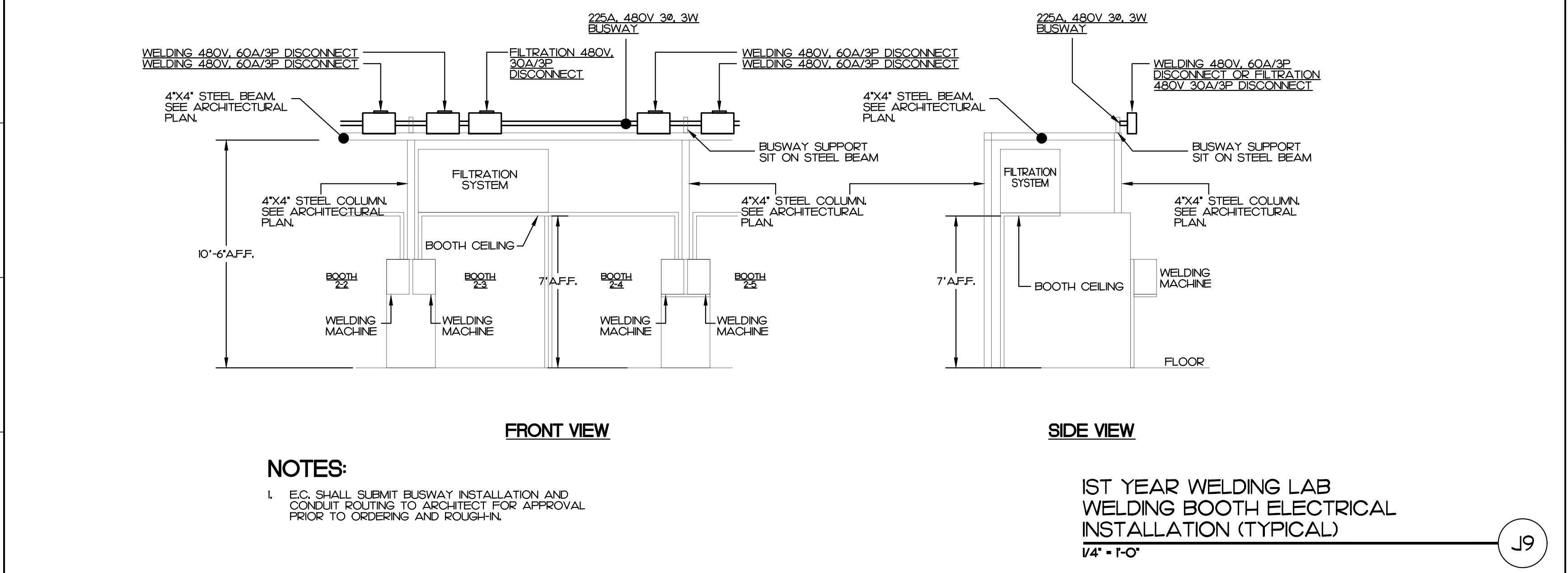
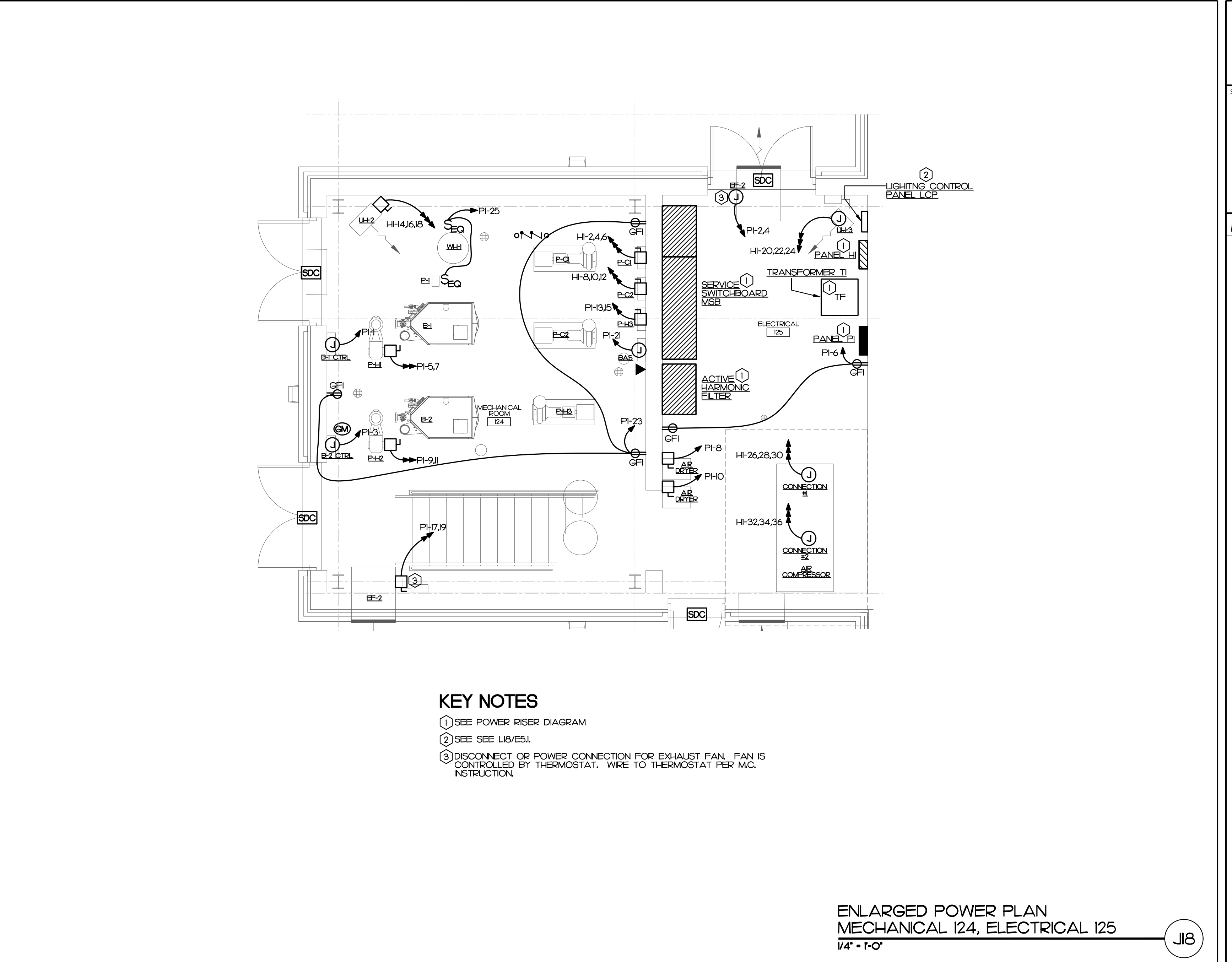
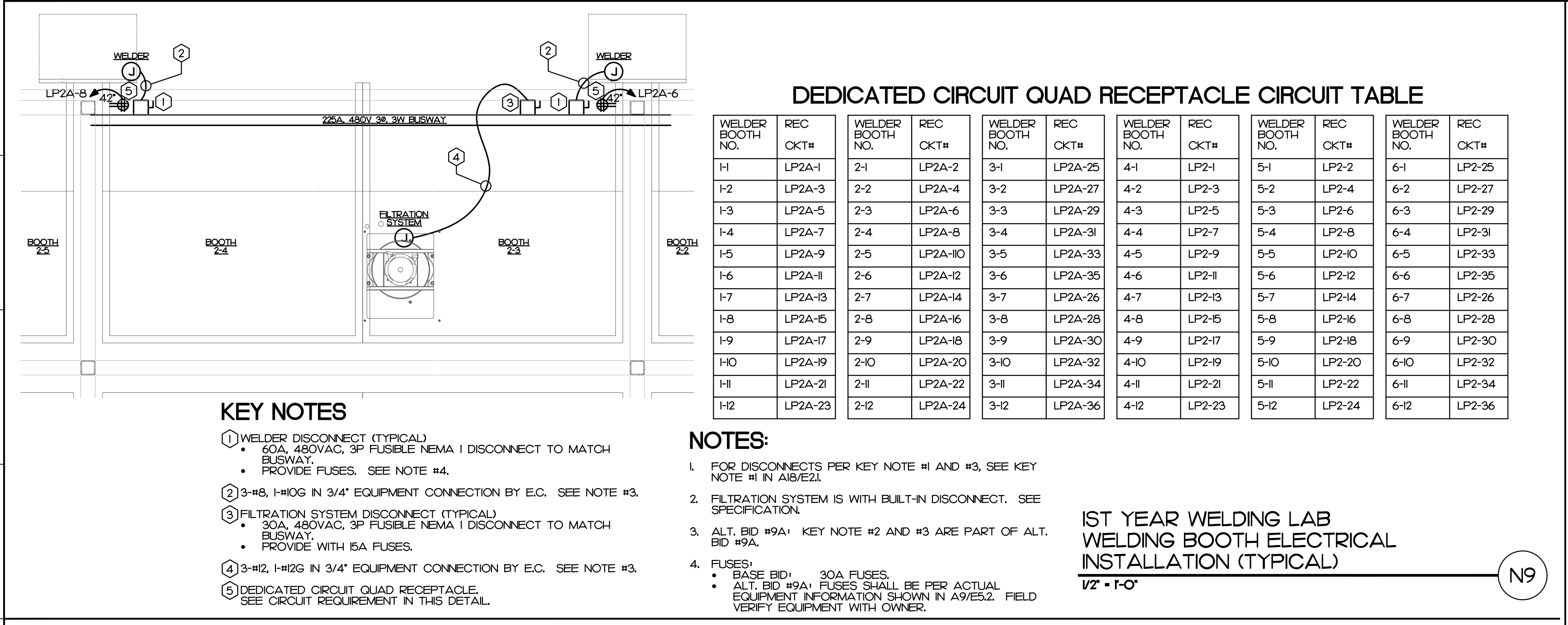
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1/8" = 1'-0"	
DRAWN: SP	
CHECKED: SP	
DATE: 2-15-2024	
PROJECT NO: 2022-07	

E2.3

A18



MATERIALS KEYING LEGEND



GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

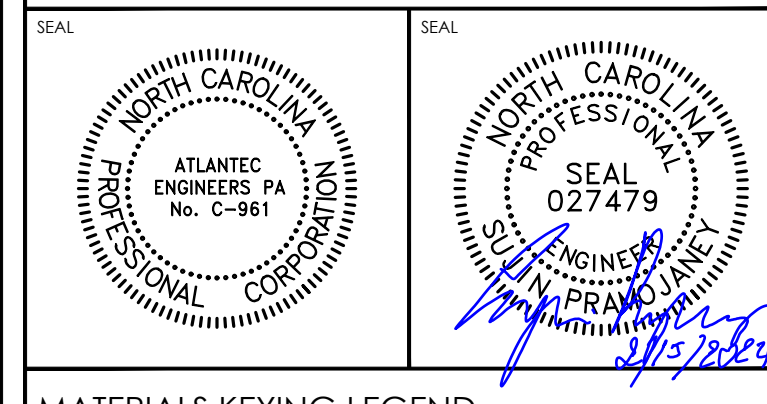
J K F ARCHITECTURE
 425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1048

PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING
 WINTERVILLE, NC

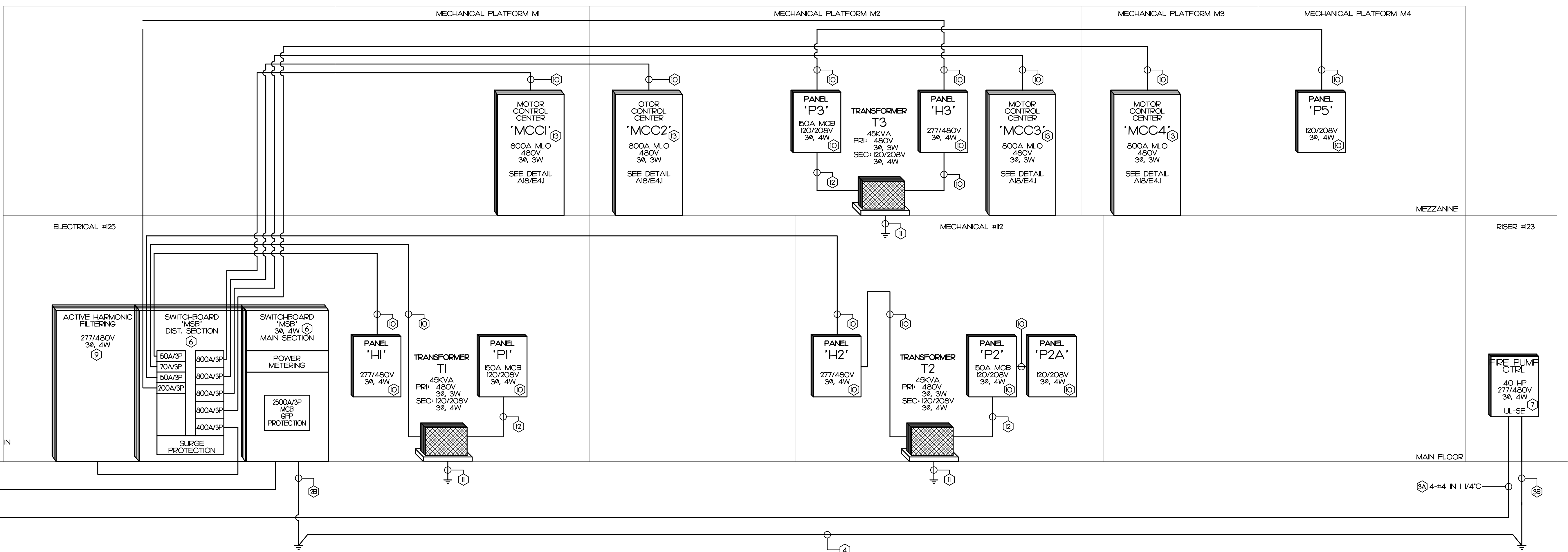
ENLARGED ELECTRICAL PLANS

SCALE	DRAWING NO.
AS NOTED	
DRAWN: SP	
CHECKED: SP	
DATE: 2-15-2024	E3.1
PROJECT NO: 2022-07	

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MATERIALS KEYING LEGEND

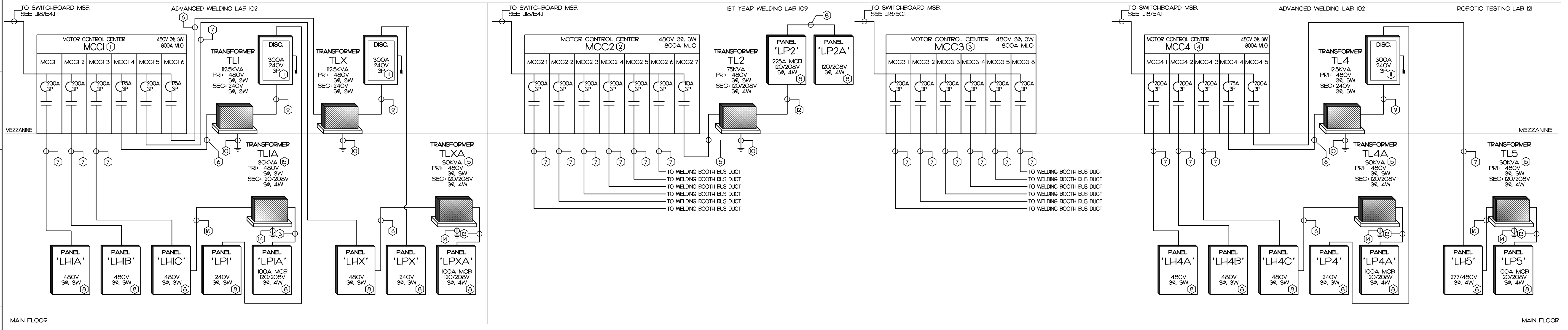


- KEY NOTES**
- 1. UTILITY PAD MOUNTED TRANSFORMER WITH C.T. AND METER WITH PULSE SIGNAL BY UTILITY.
 - FAD BY E.C. PER UTILITY SPEC.
 - PROVIDE FROM METER TO BUS IN MECH. 04. PROVIDE WITH FULL WIRE. WIRED BY M.C.
 - 2. UNDERGROUND SERVICE FEEDER #1:
 - 7 SETS OF 4-#500 KCMIL IN 3 1/2" UNDERGROUND SERVICE. SEE NOTE #3.
 - 3. UNDERGROUND SERVICE FEEDER #2:
 - 4-#14 IN 1 1/4" UNDERGROUND SERVICE. SEE NOTE #2 AND #5.
 - 4. UNDERGROUND SERVICE FEEDER #3:
 - 7 SETS OF 4-#500 KCMIL IN 3 1/2" UNDERGROUND SERVICE. SEE NOTE #3.
 - 5. GROUNDING ELECTRODE CONDUCTORS:
 - #1400 CU IN 3/4" TO BUILDING STEEL, C.W. MAIN GAS PIPE, CHILLER PIPE AND SPRINKLER MAIN.
 - #1466 CU IN 3/4" TO REINFORCE STEEL AT CONCRETE FOOTING.
 - #1466 CU IN 3/4" TO 2 DRIVEN RODS.
 - 6. BUILDING SERVICE SWITCHBOARD:
 - LISTED FOR USE AS SERVICE EQUIPMENT.
 - 2500A MCB WITH GROUND FAULT PROTECTION.
 - PROVIDE WITH ARC ENERGY REDUCTION PER NEC 240.87. SEE SPECIFICATION.
 - SEE SWITCHBOARD SCHEDULE.
 - 7. 40 HP FIRE PUMP CONTROLLER:
 - FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR.
 - PROVIDE PLAQUE.
 - 8. DISCONNECT FURNISHED WITH CHILLER UNIT.
 - LISTED FOR USE AS SERVICE EQUIPMENT.
 - SEE MECHANICAL PLAN.
 - PROVIDE PLAQUE.
 - 9. ACTIVE HARMONIC FILTER:
 - 320A, 240 KW/480, 480V, 3W, 4W SYSTEM.
 - 65K AC RATING.
 - FLOOR STANDING NEMA 1 ENCLOSURE.
 - DIGITAL HARMONIC FFT TO CONTROL:
 - T1d1 - 3k, T2d1 - 5k
 - POWER FACTOR CORRECTION
 - UNIT SHALL BE THE SAME MANUFACTURER AS THE SERVICE SWITCH BOARD.
 - THE INFORMATION IS BASED ON SCHNEIDER ELECTRIC ACQUISNE PCSP3000S
 - 10. GROUNDING ELECTRODE CONDUCTORS PER NEC 250:
 - #1466 CU IN 3/4" TO BUILDING STEEL.
 - 11. TRANSFORMER SECONDARY CONDUCTORS:
 - 4-#10, #166 IN 2".
 - MAX. LENGTH SHALL NOT EXCEED 10 FT.
 - 12. MOTOR CONTROL CENTER:
 - SEE A3/E41 FOR DETAIL.
- NOTES**
- 1. FAULT CURRENTS:
 - E.C. SHALL OBTAIN AVAILABLE FAULT CURRENT AT TRANSFORMER FROM UTILITY AND PROVIDE INFORMATION TO ENGINEER TO CALCULATE AVAILABLE FAULT CURRENTS FOR SERVICE SWITCHBOARD, PANEL BOARDS AND MCC.
 - E.C. SHALL PROVIDE LABEL INDICATING FAULT CURRENTS ON ALL SWITCHBOARD, PANEL BOARDS AND MCC PER ENGINEER INSTRUCTION.
 - 2. FIRE PUMP SERVICE FEEDER:
 - PER GREENVILLE UTILITIES, THE UTILITY COMPANY, THE UNDERGROUND SERVICE IS CONSIDERED A RELIABLE SOURCE OF POWER PER 2020 NC ELECTRICAL CODE 695.92 AND MEET THE NEC 695.9(A).
 - FEEDER SIZE IS BASED ON 40HP:
 - a. PER NEC 430.250, FLA IS 92A.
 - b. PER NEC 430.251 69, LDC IS 290A.
 - 3. UNDERGROUND SERVICE FEEDER SHALL BE ENGAGED IN CONCRETE. SPECIFICATION SECTION 26 50 45.
 - 4. PROVIDE ARC FLASH WARNING REQUIREMENTS:
 - PER NEC 106.6(H) SERVICE SWITCHBOARD.
 - PER NEC 106.6(A) PANEL BOARDS AND MOTOR CONTROL CENTERS.

POWER RISER DIAGRAM MAIN DIAGRAM
NO SCALE

J18

GENERAL NOTES



- KEY NOTES**
- 1. MOTOR CONTROL CENTER MCC1:
 - 800A, 480V, 3W, 65KAIC RATING
 - 6 - STARTERS:
 - a. 4 - 200A/3P CB, 200A/3P CONTACTORS
 - b. 2 - 175A/3P CB, 200A/3P CONTACTORS
 - EACH CONTACTOR WITH:
 - a. ON PUSH BUTTON
 - b. OFF PUSH BUTTON
 - c. ON PILOT LIGHT
 - PROVIDE ALL REQUIRED CONTROL COMPONENTS FOR CONNECTION TO REMOTE CONTROL PANELS. SEE NOTE #1.
 - 2. MOTOR CONTROL CENTER MCC2:
 - 800A, 480V, 3W, 65KAIC RATING
 - 7 - STARTERS:
 - a. 6 - 200A/3P CB, 200A/3P CONTACTORS
 - b. 1 - 10A/3P CB, 200A/3P CONTACTOR
 - EACH CONTACTOR WITH:
 - a. ON PUSH BUTTON
 - b. OFF PUSH BUTTON
 - c. ON PILOT LIGHT
 - PROVIDE ALL REQUIRED CONTROL COMPONENTS FOR CONNECTION TO REMOTE CONTROL PANELS. SEE NOTE #1.
 - 3. MOTOR CONTROL CENTER MCC3:
 - 800A, 480V, 3W, 42KAIC RATING
 - 5 - STARTERS:
 - a. 2 - 200A/3P CB, 200A/3P CONTACTORS
 - b. 3 - 175A/3P CB, 200A/3P CONTACTORS
 - EACH CONTACTOR WITH:
 - a. ON PUSH BUTTON
 - b. OFF PUSH BUTTON
 - c. ON PILOT LIGHT
 - PROVIDE ALL REQUIRED CONTROL COMPONENTS FOR CONNECTION TO REMOTE CONTROL PANELS. SEE NOTE #1.
 - 4. MOTOR CONTROL CENTER MCC4:
 - 800A, 480V, 3W, 42KAIC RATING
 - 4 - 200A/3P CB, 200A/3P CONTACTORS
 - 1 - 175A/3P CB, 200A/3P CONTACTORS
 - 200A/3P CONTACTOR
 - EACH CONTACTOR WITH:
 - a. ON PUSH BUTTON
 - b. OFF PUSH BUTTON
 - c. ON PILOT LIGHT
 - PROVIDE ALL REQUIRED CONTROL COMPONENTS FOR CONNECTION TO REMOTE CONTROL PANELS. SEE NOTE #1.
 - 5. MOTOR CONTROL CENTER MCC5:
 - 800A, 480V, 3W, 42KAIC RATING
 - 6 - 200A/3P CB, 200A/3P CONTACTORS
 - 1 - 175A/3P CB, 200A/3P CONTACTORS
 - 200A/3P CONTACTOR
 - EACH CONTACTOR WITH:
 - a. ON PUSH BUTTON
 - b. OFF PUSH BUTTON
 - c. ON PILOT LIGHT
 - PROVIDE ALL REQUIRED CONTROL COMPONENTS FOR CONNECTION TO REMOTE CONTROL PANELS. SEE NOTE #1.
 - 6. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 7. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 8. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 9. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 10. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 11. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 12. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 13. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 14. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 15. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 16. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 17. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
 - 18. TRANSFORMER SECONDARY 4-#10, #166 IN 2"
- NOTES**
- 1. REMOTE POWER CONTROL PANEL REQUIREMENTS:
 - THERE ARE TOTAL OF 4 REMOTE POWER CONTROL PANELS.
 - ADVANCED WELDING LAB I02: SEE DETAIL A3/E22 AND J18/E2.
 - 1ST YEAR WELDING LAB I09: SEE DETAIL A3/E22 AND J18/E2.
 - ADVANCED WELDING LAB I6: SEE DETAIL A3/E22 AND J18/E2.
 - ROBOTIC TESTING LAB I21: SEE DETAIL A3/E22 AND J18/E2.
 - 2. E.C. SHALL PROVIDE THE REMOTE CONTROL PANELS INCLUDING ALL ACCESSORIES AND WIRING IN CONDUITS TO BE FUNCTIONED PER THIS PLAN.

POWER RISER DIAGRAM LAB POWER
NO SCALE

A18

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO REVISION DATE

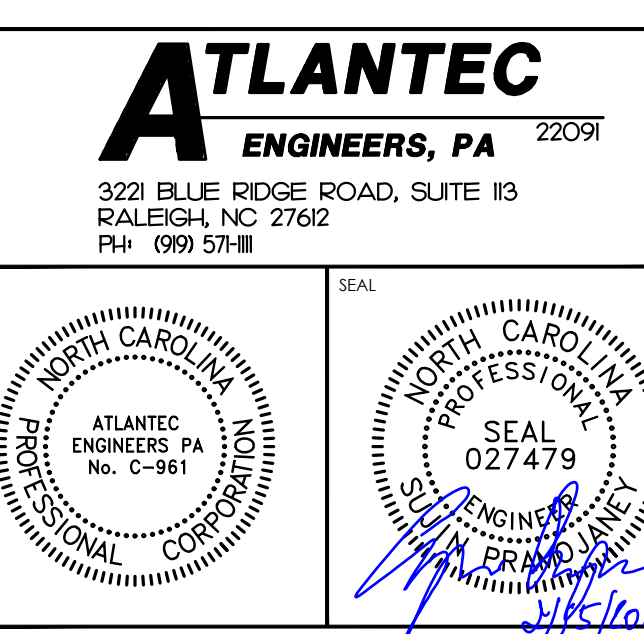
JKF
ARCHITECTURE

PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC

POWER RISER DIAGRAM

SCALE	NO SCALE	DRAWING NO	
DRAWN	SP	CHECKED	SP
DATE	2-15-2024	PROJECT NO.	2022-07

E4.1



MATERIALS KEYING LEGEND

Table with columns for MATERIALS KEYING LEGEND, listing various materials and their corresponding drawing symbols.

GENERAL NOTES

KEY PLAN

NO REVISION DATE

J K F ARCHITECTURE logo and contact information.

PITT COMMUNITY COLLEGE NEW WELDING BUILDING

WINTERVILLE, NC

PANEL SCHEDULES

NO SCALE DRAWING NO.

CHECKED DATE 2-15-2024

PROJECT NO. 2022-07

SCALE NO SCALE DRAWING NO. SP SP E4.2

DATE 2-15-2024

PROJECT NO. 2022-07

PANEL H2 277/480V, 3 PHASE, 4 WIRE. Table with columns for description, kVA, C, G, W, CB, and demand factors.

PANEL P2 120/208V, 3 PHASE, 4 WIRE. Table with columns for description, kVA, C, G, W, CB, and demand factors.

PANEL P2A 120/208V, 3 PHASE, 4 WIRE. Table with columns for description, kVA, C, G, W, CB, and demand factors.

KEY NOTES. List of notes including: 1) PROVIDE WITH CIRCUIT BREAKER LOCK, 2) PROVIDE GFCI BREAKER, 3) PROVIDE WITH GROUND FAULT PROTECTED BREAKER FOR EQUIPMENT, 4) BRANCH IS PART OF BASE BLD.

PANEL H1 277/480V, 3 PHASE, 4 WIRE. Table with columns for description, kVA, C, G, W, CB, and demand factors.

PANEL P1 120/208V, 3 PHASE, 4 WIRE. Table with columns for description, kVA, C, G, W, CB, and demand factors.

PANEL P1A 120/208V, 3 PHASE, 4 WIRE. Table with columns for description, kVA, C, G, W, CB, and demand factors.

PANEL P1A 120/208V, 3 PHASE, 4 WIRE. Table with columns for description, kVA, C, G, W, CB, and demand factors.

KEY NOTES. List of notes including: 1) PROVIDE WITH CIRCUIT BREAKER LOCK, 2) PROVIDE GFCI BREAKER, 3) PROVIDE WITH GROUND FAULT PROTECTED BREAKER FOR EQUIPMENT, 4) BRANCH IS PART OF BASE BLD.

SWITCH BOARD MSB 277/480V 3P, 4W. Table with columns for description, breaker, feeder, demand, and amperage.

SWITCHBOARD MSB WELDER DEMAND. Table with columns for welder type, voltage, amp, demand factor, and demand.

MCC1 MOTOR CONTROL CENTER LOAD CALCULATION. Table with columns for description, MCC-1, MCC-2, MCC-3, MCC-4, MCC-5, MCC-6, and demand.

MCC1 WELDER DEMAND. Table with columns for welder type, voltage, amp, demand factor, and demand.

MCC2 MOTOR CONTROL CENTER LOAD CALCULATION. Table with columns for description, MCC-2, MCC-2-1, MCC-2-2, MCC-2-3, MCC-2-4, MCC-2-5, MCC-2-6, and demand.

MCC2 WELDER DEMAND. Table with columns for welder type, voltage, amp, demand factor, and demand.

MCC2 MOTOR CONTROL CENTER LOAD CALCULATION. Table with columns for description, MCC-2, MCC-2-1, MCC-2-2, MCC-2-3, MCC-2-4, MCC-2-5, MCC-2-6, and demand.

MCC2 WELDER DEMAND. Table with columns for welder type, voltage, amp, demand factor, and demand.

MCC3 MOTOR CONTROL CENTER LOAD CALCULATION. Table with columns for description, MCC-3-1, MCC-3-2, MCC-3-3, MCC-3-4, MCC-3-5, MCC-3-6, and demand.

MCC3 WELDER DEMAND. Table with columns for welder type, voltage, amp, demand factor, and demand.

MCC4 MOTOR CONTROL CENTER LOAD CALCULATION. Table with columns for description, MCC-4-1, MCC-4-2, MCC-4-3, MCC-4-4, MCC-4-5, MCC-4-6, and demand.

MCC4 WELDER DEMAND. Table with columns for welder type, voltage, amp, demand factor, and demand.

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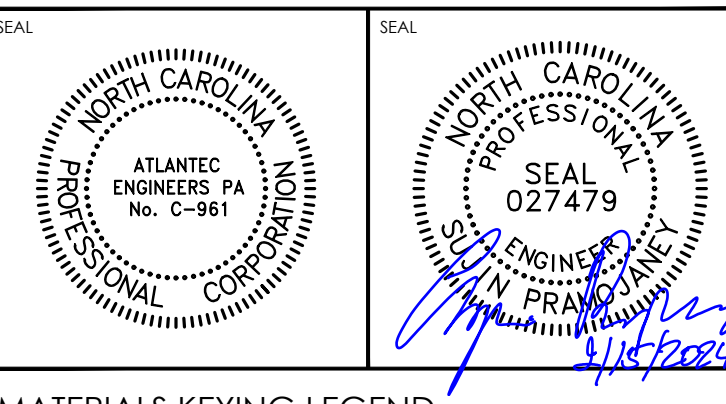
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MATERIALS KEYING LEGEND

PANEL H3 277/480V, 3 PHASE, 4 WIRE. Table with columns: OLT, DESCRIPTION, KVA, C, G, W, CB, OLT, OLT, CB, W, G, C, KVA, DESCRIPTION, OLT. Includes items like AHU-2, SUPPLY, 75 HP, AHU-3, etc.

PANEL P3 120/208V, 3 PHASE, 4 WIRE. Table with columns: OLT, DESCRIPTION, KVA, C, G, W, CB, OLT, OLT, CB, W, G, C, KVA, DESCRIPTION, OLT. Includes items like REC, OVERHEAD DOOR, IF-3, etc.

PANEL P5 120/208V, 3 PHASE, 4 WIRE. Table with columns: OLT, DESCRIPTION, KVA, C, G, W, CB, OLT, OLT, CB, W, G, C, KVA, DESCRIPTION, OLT. Includes items like REC, OVERHEAD DOOR, IF-3, etc.

KEY NOTES 1 PROVIDE WITH CIRCUIT BREAKER LOCK. 2 PROVIDE WITH GROUND FAULT PROTECTED BREAKER FOR EQUIPMENT NEUTRAL.

PANEL LHIA 480V, 3 PHASE, 3 WIRE. Table with columns: OLT, DESCRIPTION, KVA, C, G, W, CB, OLT, OLT, CB, W, G, C, KVA, DESCRIPTION, OLT. Includes items like WELDER, AIR FILTRATION, etc.

PANEL LHIB 480V, 3 PHASE, 3 WIRE. Table with columns: OLT, DESCRIPTION, KVA, C, G, W, CB, OLT, OLT, CB, W, G, C, KVA, DESCRIPTION, OLT. Includes items like WELDER, AIR FILTRATION, etc.

PANEL LHIC 480V, 3 PHASE, 3 WIRE. Table with columns: OLT, DESCRIPTION, KVA, C, G, W, CB, OLT, OLT, CB, W, G, C, KVA, DESCRIPTION, OLT. Includes items like WELDER, AIR FILTRATION, etc.

PANEL LP1 240V, 3 PHASE, 3 WIRE. Table with columns: OLT, DESCRIPTION, KVA, C, G, W, CB, OLT, OLT, CB, W, G, C, KVA, DESCRIPTION, OLT. Includes items like WELDER, AIR FILTRATION, etc.

PANEL LP1A 120/208V, 3 PHASE, 4 WIRE. Table with columns: OLT, DESCRIPTION, KVA, C, G, W, CB, OLT, OLT, CB, W, G, C, KVA, DESCRIPTION, OLT. Includes items like REC, WELDER, etc.

PANEL LHX 480V, 3 PHASE, 3 WIRE. Table with columns: OLT, DESCRIPTION, KVA, C, G, W, CB, OLT, OLT, CB, W, G, C, KVA, DESCRIPTION, OLT. Includes items like WELDER, MOBILE, etc.

PANEL LPX 240V, 3 PHASE, 3 WIRE. Table with columns: OLT, DESCRIPTION, KVA, C, G, W, CB, OLT, OLT, CB, W, G, C, KVA, DESCRIPTION, OLT. Includes items like WELDER, MOBILE, etc.

PANEL LPXA 120/208V, 3 PHASE, 3 WIRE. Table with columns: OLT, DESCRIPTION, KVA, C, G, W, CB, OLT, OLT, CB, W, G, C, KVA, DESCRIPTION, OLT. Includes items like REC, WELDER, etc.

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

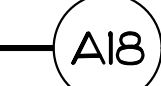
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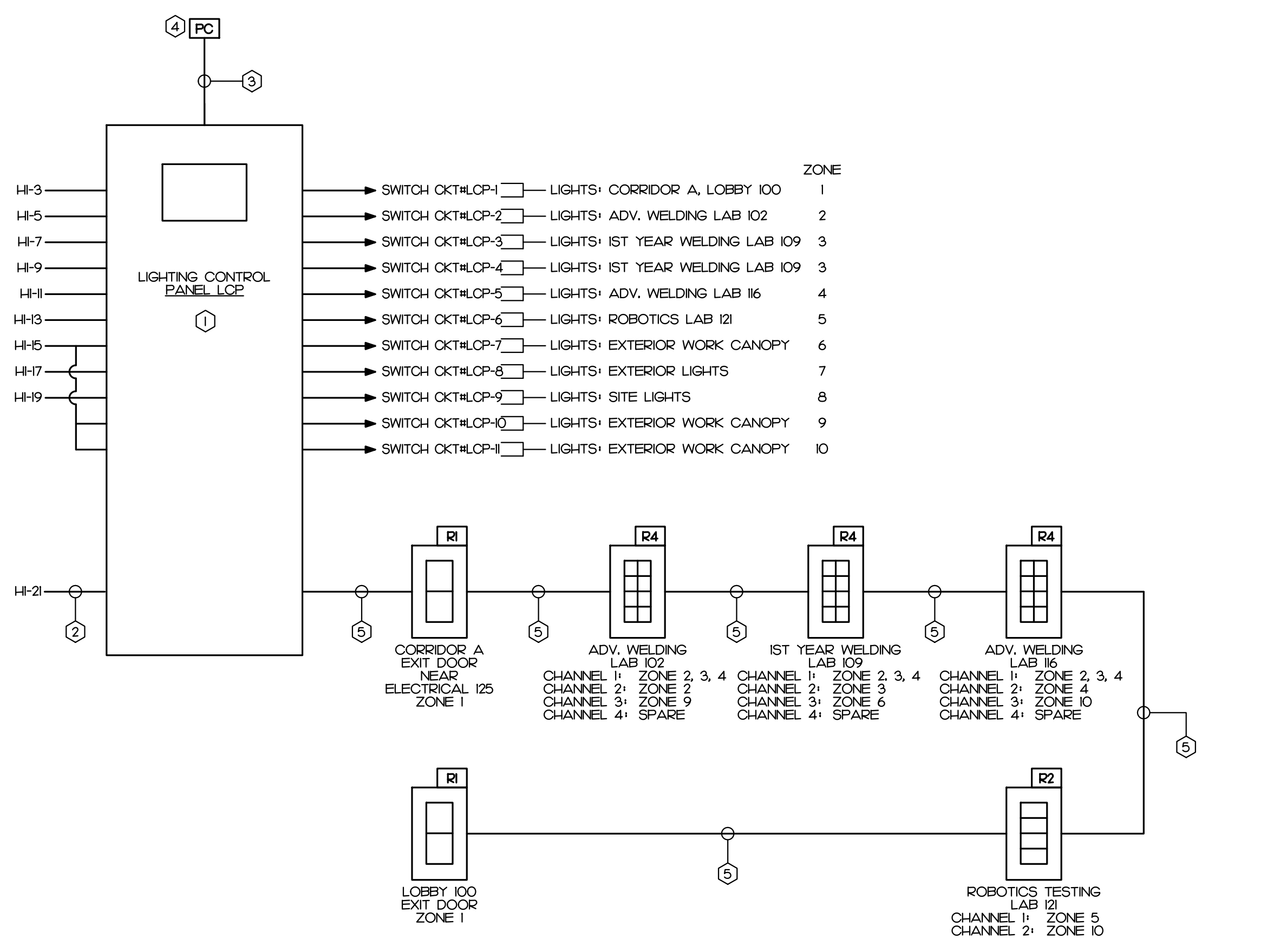
J K F ARCHITECTURE

PITT COMMUNITY COLLEGE NEW WELDING BUILDING WINTERVILLE, NC PANEL SCHEDULES

SCALE: NO SCALE DRAWING NO: SP CHECKED: SP DATE: 2-15-2024 PROJECT NO: 2022-07

PANEL SCHEDULES NO SCALE





KEY NOTES:

- LIGHTING CONTROL PANEL
 - SCRY 65KA #277/ABOVAC
 - SWITCHED CONTROL PANEL WITH FEED THRU TYPE (NO BREAKER)
 - INTEGRATED ASTRONOMICAL TIME CLOCK
 - ALL CIRCUITS WITH CONTROL CONTACTORS OR SOFT SWITCH
 - RELAYS EACH CIRCUIT SHALL HAVE CAPABILITY TO SWITCH 10V P, 277V P, 30A CIRCUITS
 - NO CONTACT WITH 0-10V DIMMING CONNECTIONS
 - CAPABLE OF CONNECT REMOTE STATIONS VIA LOW VOLTAGE CAT 5 CABLE
 - LIGHT: ARP-INTEN26-NLT-KFCR-MVOLT-SC-SM-DTC
- POWER CIRCUIT FOR PANEL OPERATION
- LOW VOLTAGE CABLE FOR PHOTOCELL POWER SUPPLY AND OUTPUT PER LIGHT REQUIREMENTS IN CONDUIT
- OUTDOOR PHOTO SENSOR. SEE LEGEND.
- PRETERMINATED CAT 5 CABLES (BY FACTORY) IN CONDUIT.

LEGEND

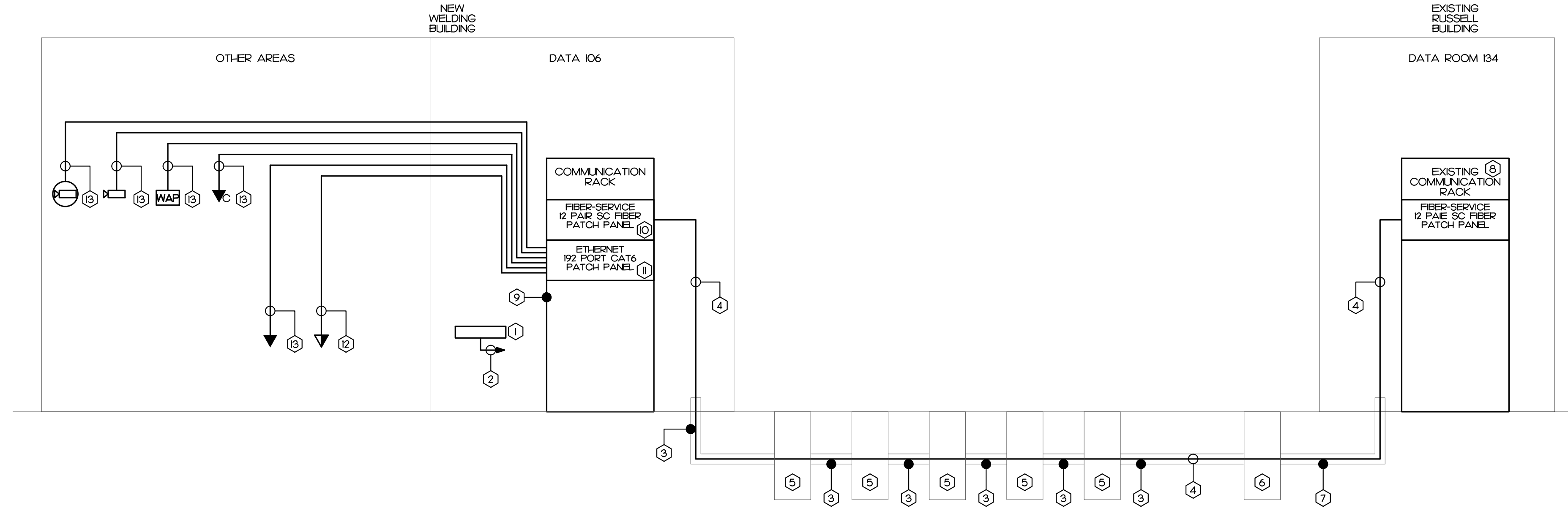
- R** 1 ON/OFF CHANNEL
LIGHT: #P00MA-2P-4
SEE NOTE IN ABOVE DIAGRAM FOR REQUIRED CONTROLLED ZONES. PROVIDE WITH ENGRAVED COVER PLATE TO INDICATED COVERAGE AREA.
MOUNT ALL SWITCHES 44" AFF. UNLESS NOTED OTHERWISE. EACH BUTTON IS FOR ON/OFF DURING BUSINESS HOUR AND ON FOR 2 HOUR AFTER BUSINESS HOUR.
- R2** 2 ON/OFF CHANNELS
LIGHT: #P00MA-2P-4
SEE NOTE IN ABOVE DIAGRAM FOR REQUIRED CONTROLLED ZONES. PROVIDE WITH ENGRAVED COVER PLATE TO INDICATED COVERAGE AREA.
MOUNT ALL SWITCHES 44" AFF. UNLESS NOTED OTHERWISE. EACH BUTTON IS FOR ON/OFF DURING BUSINESS HOUR AND ON FOR 2 HOUR AFTER BUSINESS HOUR.
- R4** 4 ON/OFF CHANNELS
LIGHT: #P00MA-4P-4
SEE NOTE IN ABOVE DIAGRAM FOR REQUIRED CONTROLLED ZONES. PROVIDE WITH ENGRAVED COVER PLATE TO INDICATED COVERAGE AREA.
MOUNT ALL SWITCHES 44" AFF. UNLESS NOTED OTHERWISE. EACH BUTTON IS FOR ON/OFF DURING BUSINESS HOUR AND ON FOR 2 HOUR AFTER BUSINESS HOUR.
- PC** OUTDOOR PHOTOCELL
LIGHT: NO PC KIT

NOTES:

- ON-SITE START-UP OF SYSTEM SHALL BE BY FACTORY CERTIFIED TECHNICIAN.
- THE ABOVE DIAGRAM IS ONLY A GUIDE LINE BASED ON AQUALITY LIGHT SYSTEM. EQUIVALENT PRODUCTS BY HELLER LIGHTING, LEVITON, LITTON, WATSON/OPPER ARE ACCEPTABLE. ACTUAL WIRING AND INSTALLATION SHALL BE PER PANEL MANUFACTURER INSTRUCTIONS.
- E.C. SHALL INCLUDE:
 - MIN OF 2 HOUR OF TRAINING OF USING/PROGRAMMING THE SYSTEM
 - PROGRAM ZONE 1, 2, 3, 4, 5, 6, 9, 10 BASED ON 'BUSINESS HOUR'. FIELD COORDINATE WITH ARCHITECT AND OWNER FOR 'BUSINESS HOUR'
 - PROGRAM ZONE 7, 8 TO BE ON WHEN NO SUN LIGHT.
 - ZONE 6, 9, 10 SHALL NOT BE ON WHEN THERE IS SUN LIGHT.

LIGHTING CONTROL PANEL LCP
DIAGRAM
NO SCALE

(L18)



KEY NOTES:

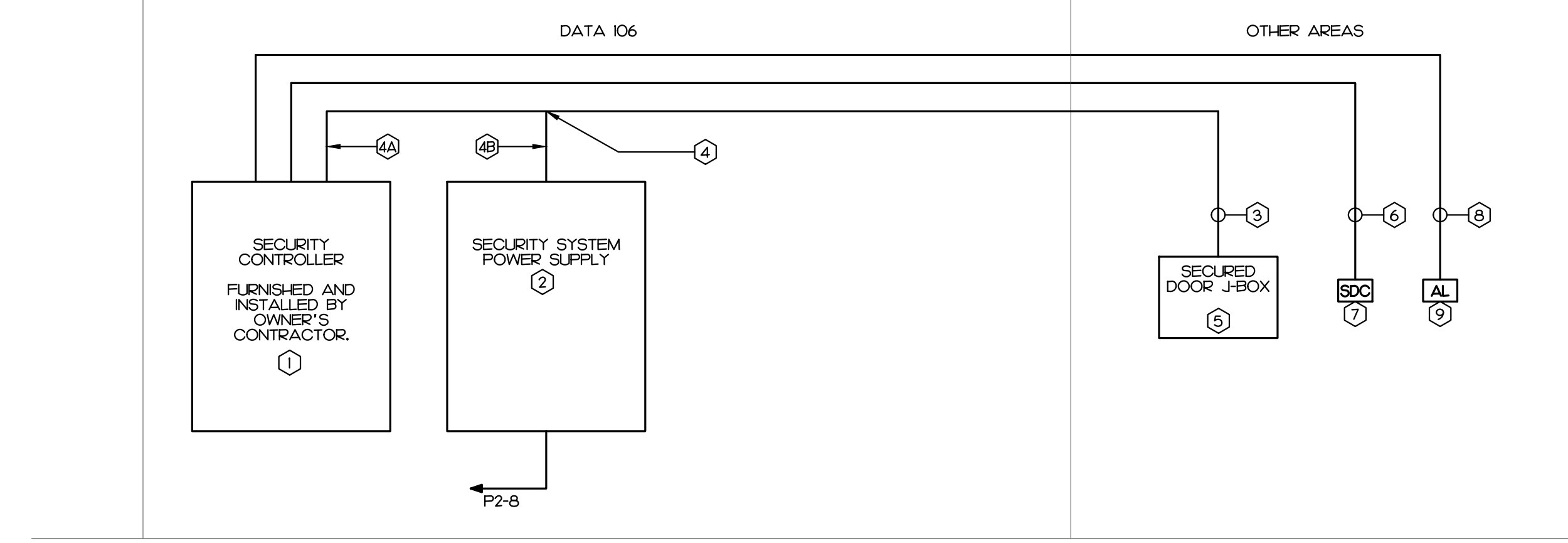
- TELECOMMUNICATION MAIN GROUNDING BUSBAR (TMGB)
 - 1/2" THICK SOLID COPPER
 - 4" HIGH AND 20" LONG
 - SHALL HAVE 30 ATTACHMENT POINTS (TWO ROWS OF 15 EACH) FOR TWO-HOLE GROUNDING LUGS
 - WITH WALL MOUNT STANDOFF BRACKETS, ASSEMBLY SCREW AND INSULATORS CREATING 4" STANDOFF FROM WALL
 - LL LISTED FOR GROUNDING AND BONDING EQUIPMENT.
- HEAVY GUN IN TC TO MAIN GROUNDING AT SERVICE SWITCHBOARD 'MDF'. FIELD VERIFY ROUTING WITH ARCHITECT PRIOR TO ROUGH-IN.
- COMMUNICATION SERVICE CONDUITS
 - 6 - 4" CONDUITS ENCASED IN CONCRETE DUCT BANK
 - EACH CONDUIT WITH MAXCELL EDGE #4 CELL INNERDUCT OR EQUAL
 - SEE DETAIL A18/E17 FOR ROUTING AND MANHOLE REQUIREMENTS
 - SEE CONDUIT END AFTER WIRING AS REQUIRED. FOR UNUSED CONDUITS, PROVIDE CAP.
 - SEE SPECIFICATION
- FIBER OPTIC SERVICE CABLE
12 PAIR INDOOR/OUTDOOR CABLE. SEE SPECIFICATION
- NEW MAN HOLE AS SHOWN IN DETAIL A18/E17
- EXISTING MAN HOLE NEAR RUSSELL BUILDING. SEE DETAIL A18/E17
- EXISTING UNDERGROUND CONDUIT. PROVIDE WITH MAXCELL INNERDUCT PRIOR TO PULLING THE NEW CABLE.
- AT EXISTING COMMUNICATION RACK
 - PROVIDE 12 PAIR FIBER OPTIC SC PATCH PANEL
 - FIELD VERIFY RACK AND LOCATION WITH OWNER PRIOR TO INSTALL THE PATCH PANEL
 - FIELD COORDINATE WITH OWNER PRIOR TO START WORK.
- PROVIDE 17' OPEN RACK. SEE DETAIL B14/E13 FOR LOCATION
- PROVIDE 12 PAIR FIBER OPTIC SC PATCH PANEL.
- PROVIDE 192 PORT CAT6 PATCH PANEL.
- CAT6 CABLE
- CAT6 CABLES.

NOTES:

- FOR ALL COMMUNICATION DROPS:
 - PROVIDE TO MIN WHERE THERE IS NO ACCESSIBLE CEILING SPACE
 - EXPOSED WIRING WITH J-HOOK IS ALLOWED IN ACCESSIBLE CEILING SPACE.
 - SEE SPECIFICATION
- SEE SPECIFICATION

COMMUNICATION DISTRIBUTION RISER
DIAGRAM
NO SCALE

(F18)



KEY NOTES:

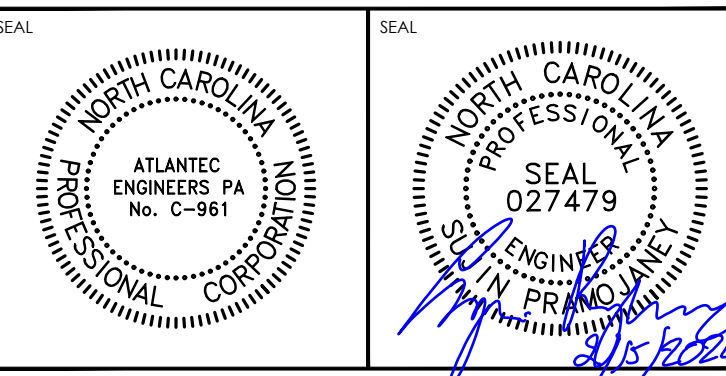
- SECURITY CONTROLLER FURNISHED AND INSTALLED BY OWNER'S CONTRACTOR. EQUIPMENT IS WITH CORD AND PLUG.
- 24DC POWER SUPPLY UNIT FOR ELECTRIC LOCK
 - POWER SUPPLY SHALL HAVE CAPACITY NOT LESS THAN 6A BASED ON ELECTRIC LOCK
 - POWER CONSUMPTION OF 500 MA PER DOOR AND CAN PROVIDE POWER UP TO 10 DOORS WITH 20% SAFETY FACTOR
 - POWER SUPPLY SHALL HAVE BATTERY BACKUP UP TO 1 HOURS
 - INPUT/OUTPUT SURGE PROTECTION
 - 120VAC INPUT POWER
- SECURED DOOR CABLE
 - BARMAHA PREL' PLENUM RATED CABLE WITH:
 - #8-3PR CONDUCTORS WITH SHIELD
 - #8-2C CONDUCTORS
 - #8-4C CONDUCTORS
 - #8-4C CONDUCTORS
 - SEE DETAIL
- PREL' SECURED DOOR CABLE (KEY NOTE #1) AND ROUTE:
 - #8-3PR CONDUCTORS WITH SHIELD, #8-2C CONDUCTORS AND #8-4C CONDUCTORS TO SECURITY CONTROLLER. LEAVE 10 FT. CABLE AT SECURITY CONTROLLER. TERMINATION AT SECURITY CONTROLLER BY OWNER'S CONTRACTOR.
 - #8-4C CONDUCTORS TO POWER SUPPLY. TERMINATION AT POWER SUPPLY BY E.C. PER OWNER'S CONTRACTOR INSTRUCTION.
- SECURED DOOR J-BOX ABOVE SECURED DOOR. SEE DETAIL J18/E1 AND N18/E2
- DOOR CONTACT CABLE
 - #8-4C PLENUM RATED CABLE
 - #8-4C PLENUM RATED CABLE
 - PROVIDE 3/4" (MIN) WHERE THERE IS NO ACCESSIBLE CEILING SPACE
 - EXPOSED WIRING WITH J-HOOK IS ALLOWED IN ACCESSIBLE CEILING SPACE
 - LEAVE 10 FT. CABLE AT SECURITY CONTROLLER. TERMINATION AT SECURITY CONTROLLER BY OWNER'S CONTRACTOR.
- SECURITY DOOR CONTACT (TYPICAL)
- ALARM ACTIVATION PANO BUTTON CABLE
 - #8-4C PLENUM RATED CABLE
 - PROVIDE 3/4" (MIN) WHERE THERE IS NO ACCESSIBLE CEILING SPACE
 - EXPOSED WIRING WITH J-HOOK IS ALLOWED IN ACCESSIBLE CEILING SPACE
 - LEAVE 10 FT. CABLE AT SECURITY CONTROLLER. TERMINATION AT SECURITY CONTROLLER BY OWNER'S CONTRACTOR.
- ALARM ACTIVATION PANO BUTTON (TYPICAL)

NOTES:

- THIS DIAGRAM IS A GUIDELINE. E.C. SHALL PROVIDE COMPLETE ACCESSORIES AS REQUIRED.

SECURITY SYSTEM RISER DIAGRAM
NO SCALE

(A18)



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

JKF
ARCHITECTURE

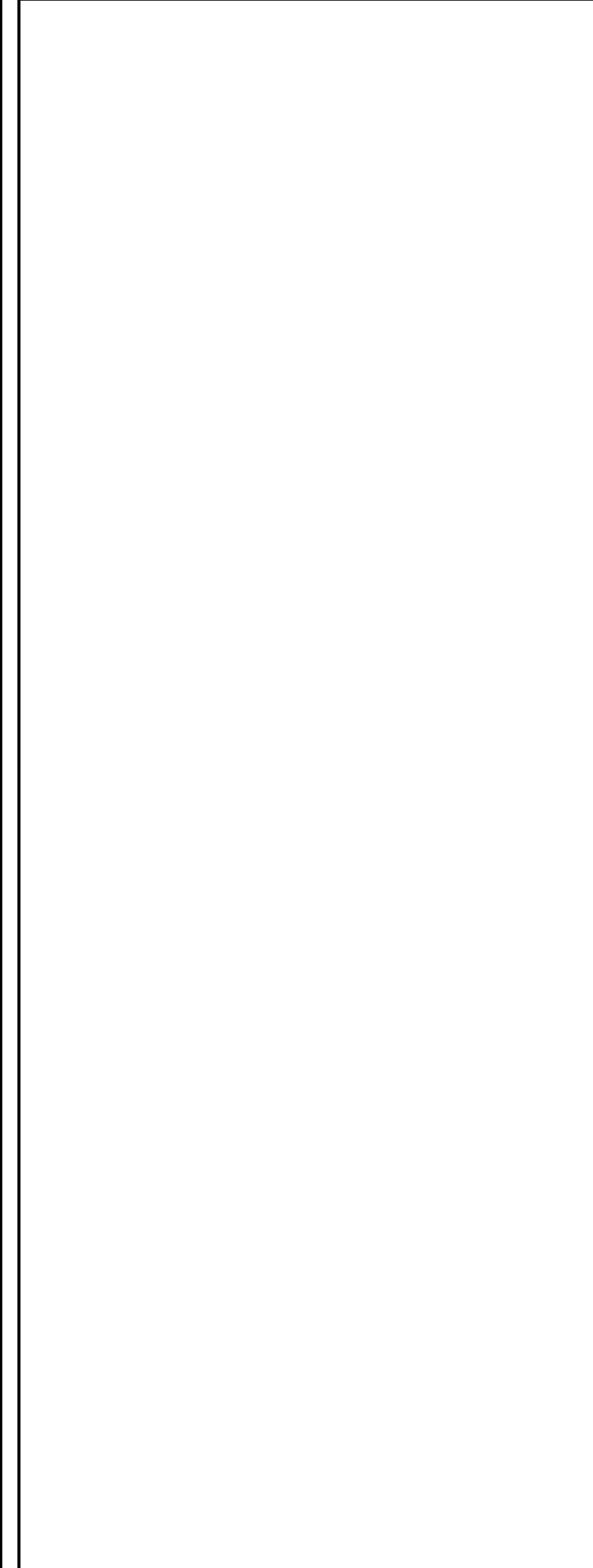
425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1048

PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC

DRAWING TITLE
LIGHTING CTRL. PANEL LCP DIAGRAM
COMM. DIST. RISER DIAGRAM
SECURITY SYSTEM RISER DIAGRAM

SCALE	AS NOTED	DRAWING NO.	
DRAWN	SP		
CHECKED	SP		
DATE	2-15-2024		E5.1
PROJECT NO.	2022-07		

MATERIALS KEYING LEGEND

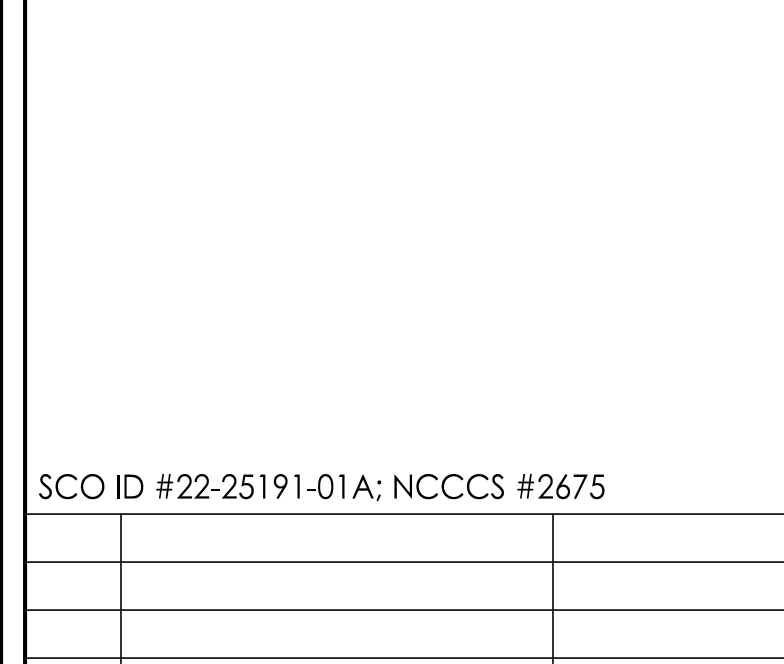


MOTOR CONTROL CENTER CONTROL DIAGRAM
 NOT TO SCALE

GENERAL NOTES

1. INSTALLATION FOR MCC AND POWER CONTROL PANELS SHALL COMPLY WITH NEC 409.
 2. AT MOTOR CONTROL CENTER, AND POWER CONTROL PANELS, PROVIDE ALL MARKING PER NEC 409.10
 3. SUBMIT CONTROL WIRING DIAGRAM, CONTROL PANEL CUT SHEETS FOR APPROVAL, AS REQUIRED.
 4. MCC SHALL BE WITH INTERFACE FOR SHUTDOWN BY FIRE ALARM ADDRESSABLE RELAY TO SHUT DOWN FIELD VERIFY WITH FIRE ALARM CONTRACTOR FOR REQUIREMENT.

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE
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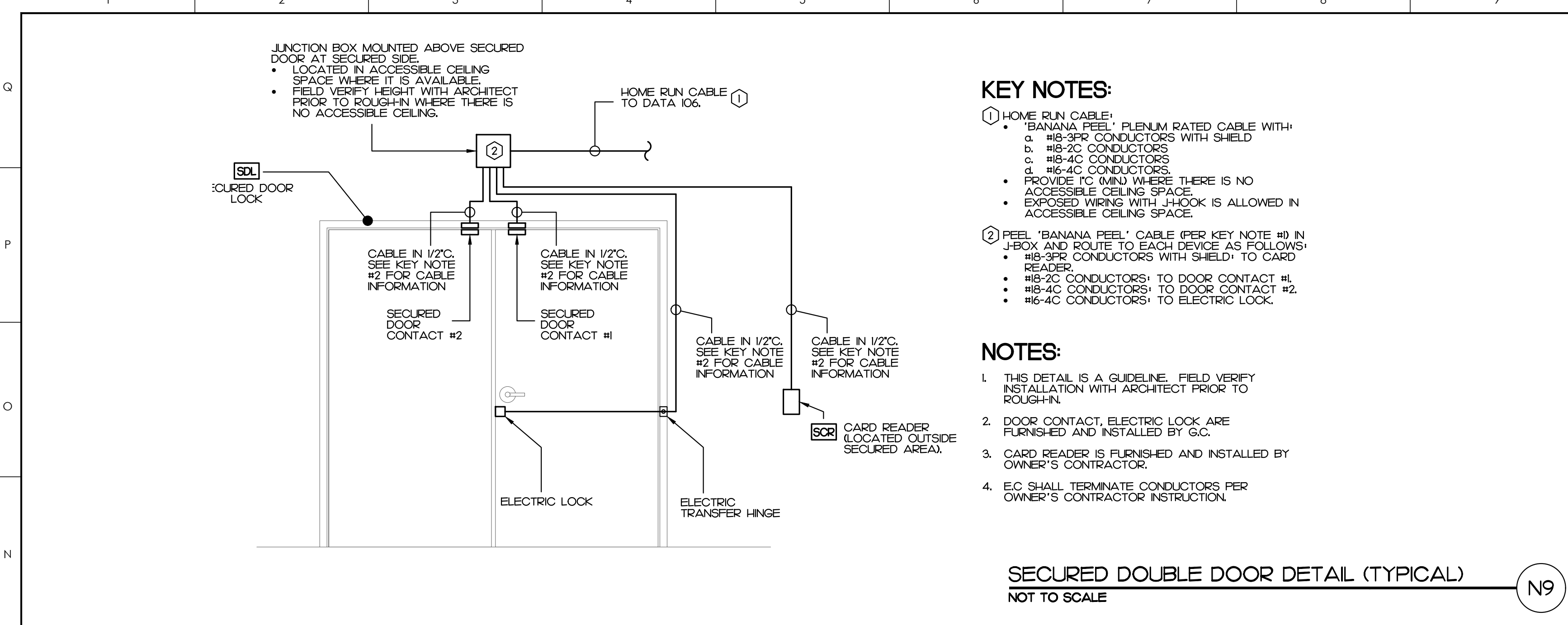


425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252.355.1048

**PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING**
 WINTERVILLE, NC

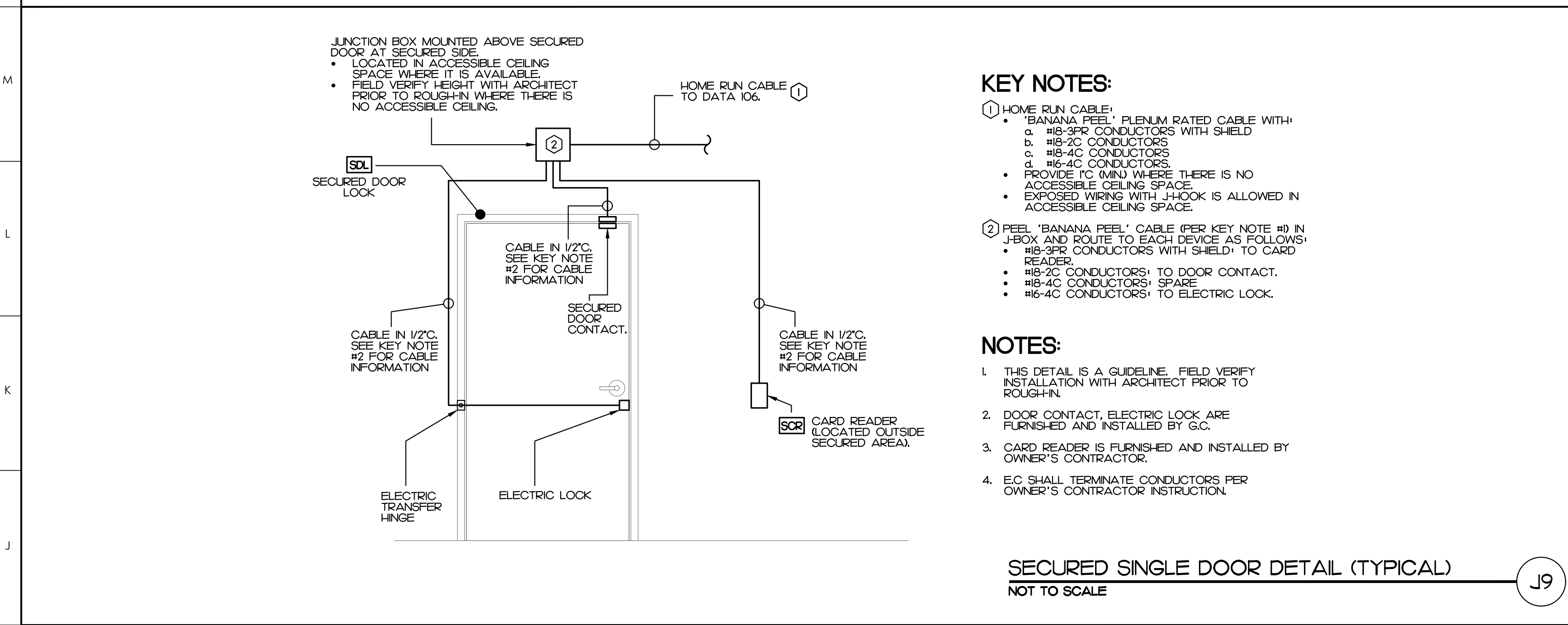
DRAWING TITLE
**SECURED DOOR DETAILS
 MCC CONTROL DIAGRAM
 EQUIPMENT LIST**

SCALE	AS NOTED	DRAWING NO.	E5.2
DRAWN	SP		
CHECKED	SP		
DATE	2-15-2024		
PROJECT NO.	2022-07		



- KEY NOTES:**
- HOME RUN CABLE:
 - "BANANA PEEL" PLENUM RATED CABLE WITH:
 - #16-SPF CONDUCTORS WITH SHIELD
 - #16-2C CONDUCTORS
 - #16-4C CONDUCTORS
 - #16-4C CONDUCTORS
 - PROVIDE TO MINI WHERE THERE IS NO ACCESSIBLE CEILING SPACE.
 - EXPOSED WIRING WITH "HOOK" IS ALLOWED IN ACCESSIBLE CEILING SPACE.
 - PEEL "BANANA PEEL" CABLE (PER KEY NOTE #1) IN J-BOX AND ROUTE TO EACH DEVICE AS FOLLOWS:
 - #16-SPF CONDUCTORS WITH SHIELD TO CARD READER.
 - #16-2C CONDUCTORS TO DOOR CONTACT #1.
 - #16-4C CONDUCTORS TO DOOR CONTACT #2.
 - #16-4C CONDUCTORS TO ELECTRIC LOCK.
- NOTES:**
- THIS DETAIL IS A GUIDELINE. FIELD VERIFY INSTALLATION WITH ARCHITECT PRIOR TO ROUGH-IN.
 - DOOR CONTACT, ELECTRIC LOCK ARE FURNISHED AND INSTALLED BY G.C.
 - CARD READER IS FURNISHED AND INSTALLED BY OWNER'S CONTRACTOR.
 - E/C SHALL TERMINATE CONDUCTORS PER OWNER'S CONTRACTOR INSTRUCTION.

SECURED DOUBLE DOOR DETAIL (TYPICAL)
 NOT TO SCALE



- KEY NOTES:**
- HOME RUN CABLE:
 - "BANANA PEEL" PLENUM RATED CABLE WITH:
 - #16-SPF CONDUCTORS WITH SHIELD
 - #16-2C CONDUCTORS
 - #16-4C CONDUCTORS
 - #16-4C CONDUCTORS
 - PROVIDE TO MINI WHERE THERE IS NO ACCESSIBLE CEILING SPACE.
 - EXPOSED WIRING WITH "HOOK" IS ALLOWED IN ACCESSIBLE CEILING SPACE.
 - PEEL "BANANA PEEL" CABLE (PER KEY NOTE #1) IN J-BOX AND ROUTE TO EACH DEVICE AS FOLLOWS:
 - #16-SPF CONDUCTORS WITH SHIELD TO CARD READER.
 - #16-2C CONDUCTORS TO DOOR CONTACT.
 - #16-4C CONDUCTORS SPARE.
 - #16-4C CONDUCTORS TO ELECTRIC LOCK.
- NOTES:**
- THIS DETAIL IS A GUIDELINE. FIELD VERIFY INSTALLATION WITH ARCHITECT PRIOR TO ROUGH-IN.
 - DOOR CONTACT, ELECTRIC LOCK ARE FURNISHED AND INSTALLED BY G.C.
 - CARD READER IS FURNISHED AND INSTALLED BY OWNER'S CONTRACTOR.
 - E/C SHALL TERMINATE CONDUCTORS PER OWNER'S CONTRACTOR INSTRUCTION.

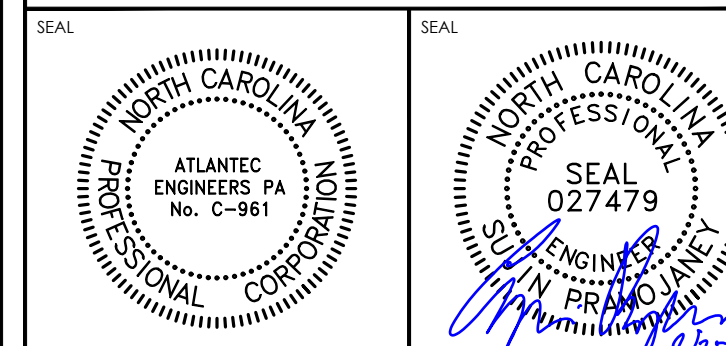
SECURED SINGLE DOOR DETAIL (TYPICAL)
 NOT TO SCALE

EQUIPMENT LIST

ITEM NO.	TYPE	DESCRIPTION	QTY	VOLT	PHASE	AMPS	Watt	HP	CONNECTION	NOTES
1	WELDER	MILLER DYNASTY 210		480	3	8	6.2		DISCONNECT 50A FUSES	TYPICAL FOR WELDING BOOTH AND PORTABLE
2	WELDER	MILLER XMT 350		480	3	17.8	13.7		DISCONNECT 30A FUSES	TYPICAL FOR WELDING BOOTH AND PORTABLE
3	WELDER	MILLERMATIC 252		240	1	46			NEMA 6-50	TYPICAL FOR PORTABLE WELDER
4	ROBOT	FANUC LR MATE 2000 4S	1						RECEPTACLE	MOBILE EQUIPMENT
	#M01	MAIN CONNECTION		120	1				RECEPTACLE	20A CORD AND PLUG
		AIR COMPRESSOR		120	1	7			RECEPTACLE	20A CORD AND PLUG
5	ROBOT	FANUC LR MATE 2000 4S	1						RECEPTACLE	MOBILE EQUIPMENT
	#M02	MAIN CONNECTION		120	1				RECEPTACLE	20A CORD AND PLUG
		AIR COMPRESSOR		120	1	7			RECEPTACLE	20A CORD AND PLUG
6	ROBOT	FANUC LR MATE 200C	1						RECEPTACLE	MOBILE EQUIPMENT
	#M03	MAIN CONNECTION		120	1				RECEPTACLE	20A CORD AND PLUG
		AIR COMPRESSOR		120	1	7			RECEPTACLE	20A CORD AND PLUG
7	ROBOT/WELDER	FANUC ARC MATE 50C 5L	1	480	3	18			DISCONNECT	MOBILE EQUIPMENT
	#M04									15KVA TRANSFORMER
8	ROBOT/WELDER	FANUC ARC MATE 100C	1	480	3	33			DISCONNECT	MOBILE EQUIPMENT
	#M05									
9	SHEAR	STANDARD AS375-10	2	480	3	50		30	DISCONNECT	30-HP MOTOR

- NOTES:**
- ITEM #1 AND #2:
 - ITEMS ARE TYPICALLY TO BE USED AT WELDING BOOTHS LOCATED IN 1ST YEAR LAB 109, ADVANCED WELDING LAB 102, 116. LOADS AT WELDING BOOTHS POWER CONNECTION IS BASED ON ITEM #1.
 - ITEMS MAY BE TEMPORARILY CONNECTED AT 480V DISCONNECTS AT EXTERIOR DESIGNATED FOR PORTABLE WELDING EQUIPMENT. LOADS AT DISCONNECT IS BASED ON ITEM #1.
 - ITEM #3:
 - ITEMS ARE TYPICALLY TO BE USED AT NEMA 6-50A RECEPTACLES THROUGH-OUT THE BUILDING.
 - ITEM #4 TO #6 ARE TYPICALLY USED IN ROBOTICS TESTING LAB 121.
 - ITEM #7 AND #8:
 - ITEMS ARE TYPICALLY CONNECTED AT 480V DISCONNECTS IN ROBOTICS TESTING LAB 121. LOADS AT DISCONNECT IS BASED ON ITEM #8.
 - ITEM #9 ARE LOCATED IN ADVANCED WELDING LAB 102, 116.
 - PER SURVEY AND OWNER INFORMATION, ALL WELDING EQUIPMENT IS LISTED.

EQUIPMENT LIST
 NO SCALE



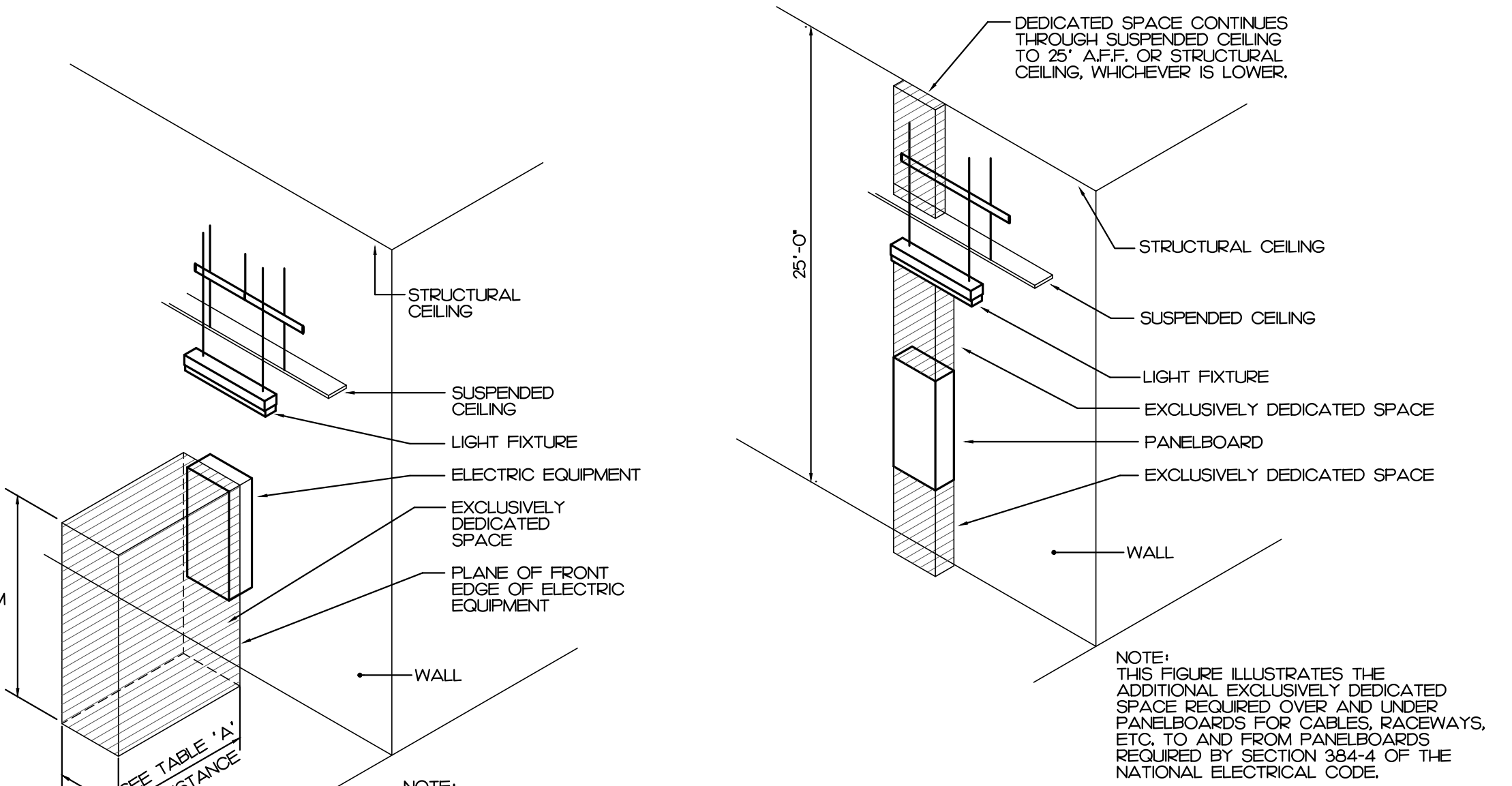
MATERIALS KEYING LEGEND

TABLE 'A' WORKING CLEARANCES

VOLTAGE TO GROUND, NORMAL	CONDITION	1	2	3
		MINIMUM CLEARANCE FEET		
0-50 60-600		3	3	3
		3 1/2	3 1/2	4

WHERE THE 'CONDITIONS' ARE AS FOLLOWS:

- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUND PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS, INSULATED WIRE OR INSULATED BARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
- EXPOSED LIVE PARTS ON ONE SIDE AND GROUND PARTS ON THE OTHER SIDE.
- EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.



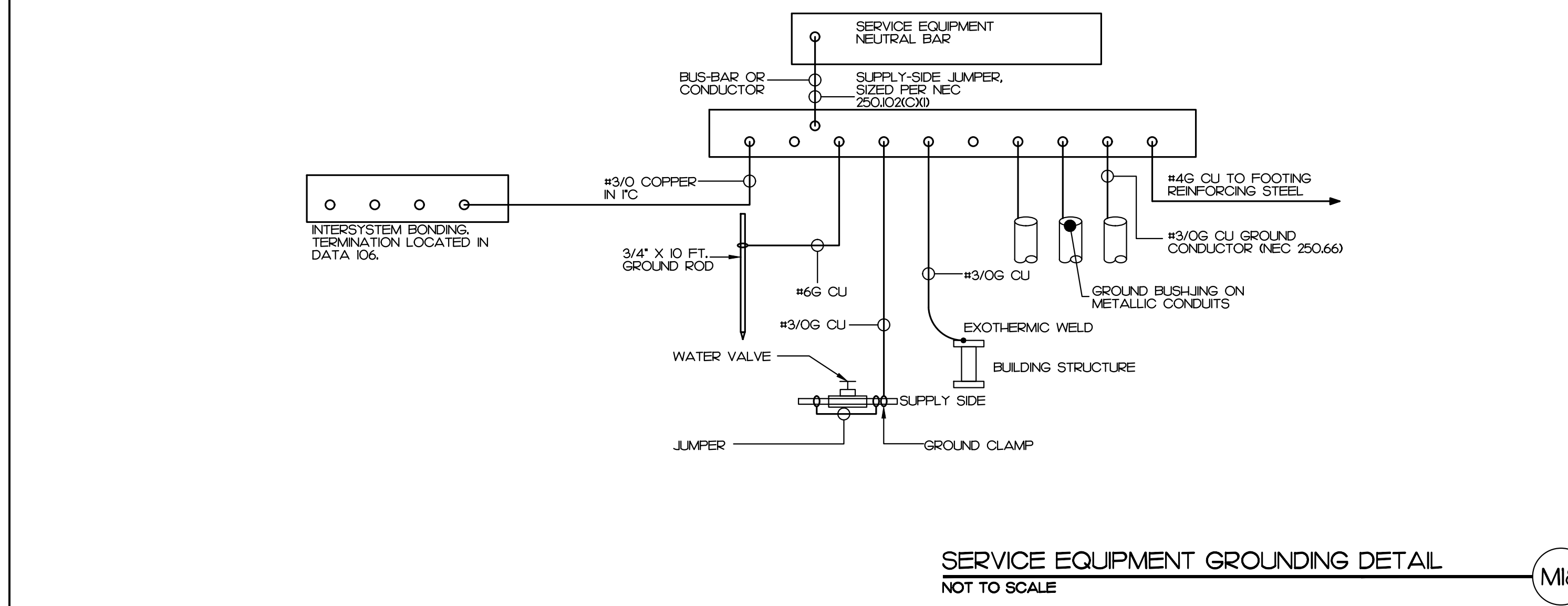
30' OR WIDTH OF EQUIPMENT IF EQUIPMENT IS WIDER THAN 30' DOES NOT HAVE TO BE CENTERED ON THE EQUIPMENT BUT AT LEAST EVEN WITH ONE EDGE. EQUIPMENT DOOR SHALL BE ABLE TO OPEN AT LEAST 90°.

ALL ELECTRIC EQUIPMENT
 NOTE: THIS INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRIC EQUIPMENT.

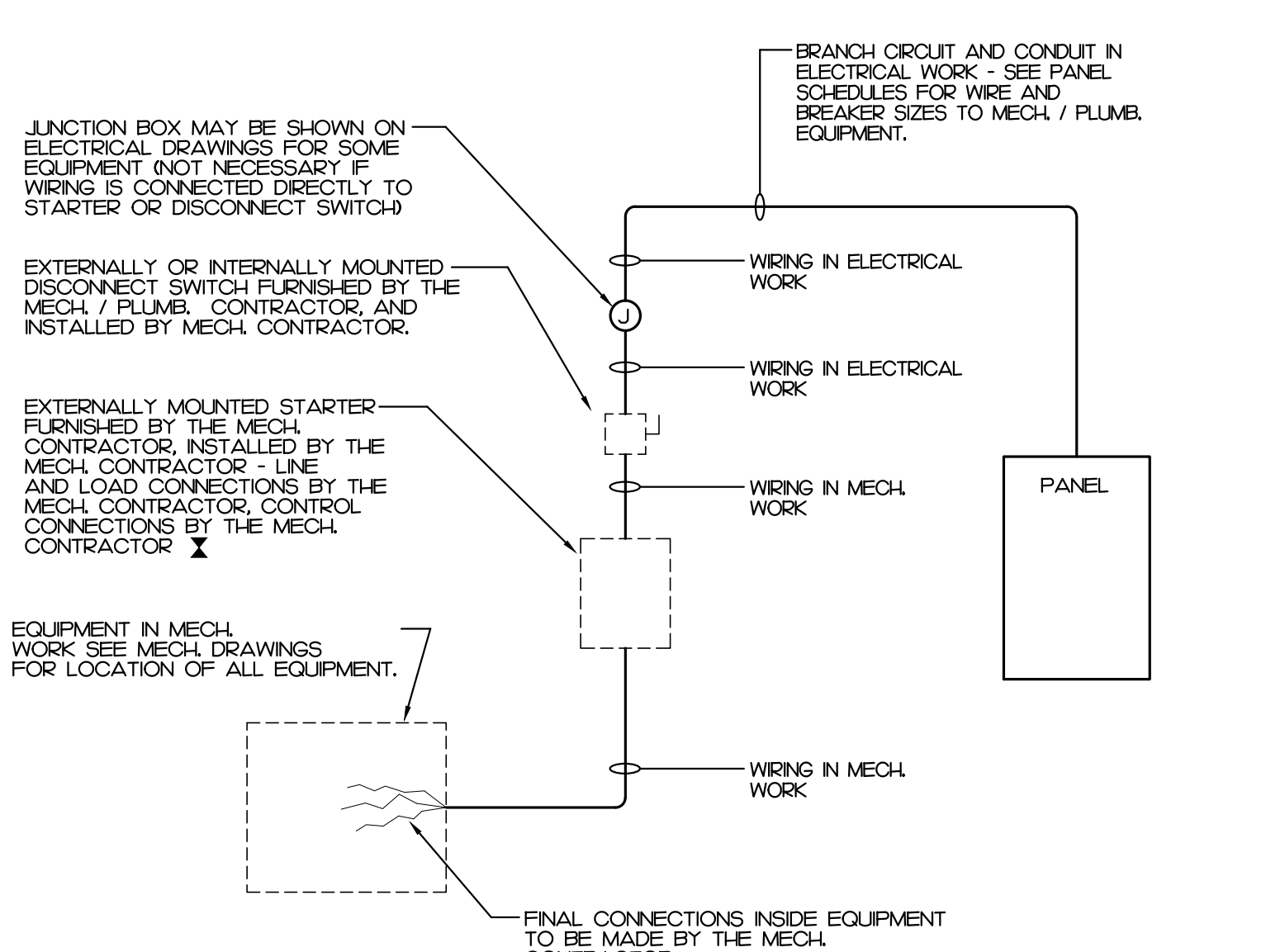
NOTE: THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, ETC. TO AND FROM PANELBOARDS REQUIRED BY SECTION 384.4 OF THE NATIONAL ELECTRICAL CODE.

NOTE: NO PIPES, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPLIANCE SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN ABOVE.

ELECTRICAL PANEL BOARD REQUIRED CLEARANCE (L10)
 NOT TO SCALE

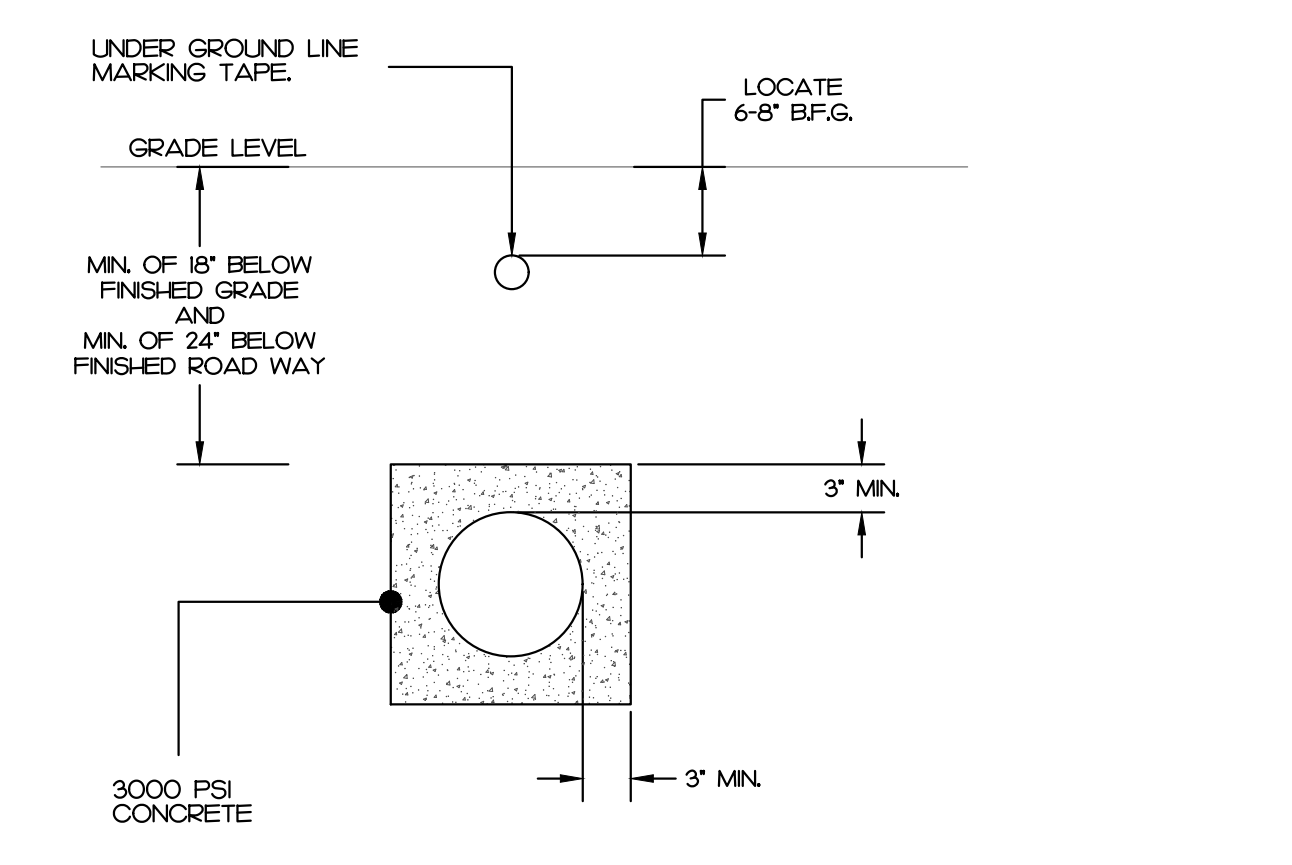


SERVICE EQUIPMENT GROUNDING DETAIL (M18)
 NOT TO SCALE



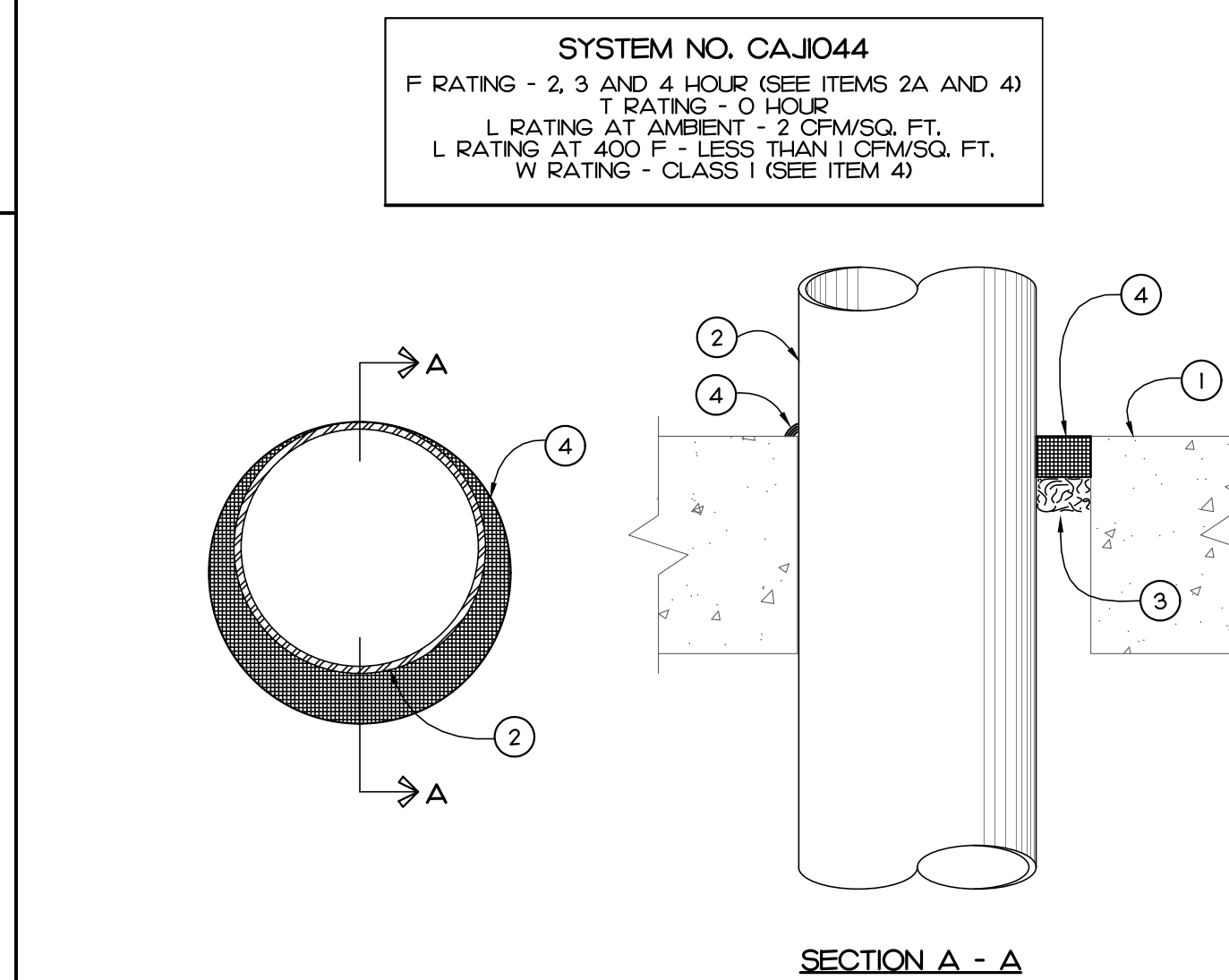
- NOTES:**
- A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER.
 - E.G. SHALL FURNISH ALL REQUIRED FUSES.

WIRING TO MECH. / PLUMB. EQUIPMENT (F5)
 NO SCALE



- NOTES:**
- SEE SPECIFICATION 260545 AND GENERAL NOTE #26.

UNDERGROUND RACEWAY (F10)
 NOT TO SCALE



- SYSTEM NO. CA1044**
 F RATING - 2, 3 AND 4 HOUR (SEE ITEMS 2A AND 4)
 T RATING - 0 HOLE
 L RATING AT AMBIENT - 2' CM/SQ. FT.
 L RATING AT 1000°F - LESS THAN 100/SQ. FT.
 W RATING - CLASS 1 (SEE ITEM 4)
- FLOOR OR WALL ASSEMBLY - LIGHTWEIGHT OR NORMAL WEIGHT (80-150 PCF) CONCRETE, EXCEPT AS NOTED IN TABLE UNDER ITEM 4. MINIMUM THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4 1/2\"/>
 - THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MAXIMUM ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS DEPENDENT ON THE PARAMETERS SHOWN IN ITEM 4. MINIMUM ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0\"/>
 - PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOMINAL 1\"/>
 - FILL VOID OR CAVITY MATERIAL - CALK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR OR WALL ASSEMBLY. REQUIRED CALK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE. A MINIMUM 1/4\"/>

MINIMUM FLOOR OR WALL THICKNESS INCHES	NOMINAL PIPE OR CONDUIT DIAMETER INCHES	MAXIMUM ANNULAR SPACE INCHES	MINIMUM CALK THICKNESS INCHES	F RATING
2 1/2	1/2 - 1/2	1 3/8	1/2	2
2 1/2	1/2 - 1/2	3 1/4	1/2	2
4 1/2	1/2 - 6	1 3/8	1/4 @	2
4 1/2	1/2 - 20	1 1/4	1/2	3
4 1/2	1/2 - 20	2	1	3
4 1/2	1/2 - 20	2	1	3
4 1/2	1/2 - 1/2	3 1/4	1	3
4 1/2	1/2 - 30	2	1	3
5 1/2	1/2 - 6	1 3/8	1 @	4

(a) MINIMUM 2\"/>

(b) MINIMUM 1\"/>

(c) MINIMUM 1\"/>

(d) MINIMUM 1\"/>

(e) MINIMUM 1\"/>

(f) MINIMUM 1\"/>

(g) MINIMUM 1\"/>

(h) MINIMUM 1\"/>

(i) MINIMUM 1\"/>

(j) MINIMUM 1\"/>

(k) MINIMUM 1\"/>

(l) MINIMUM 1\"/>

(m) MINIMUM 1\"/>

(n) MINIMUM 1\"/>

(o) MINIMUM 1\"/>

(p) MINIMUM 1\"/>

(q) MINIMUM 1\"/>

(r) MINIMUM 1\"/>

(s) MINIMUM 1\"/>

(t) MINIMUM 1\"/>

(u) MINIMUM 1\"/>

(v) MINIMUM 1\"/>

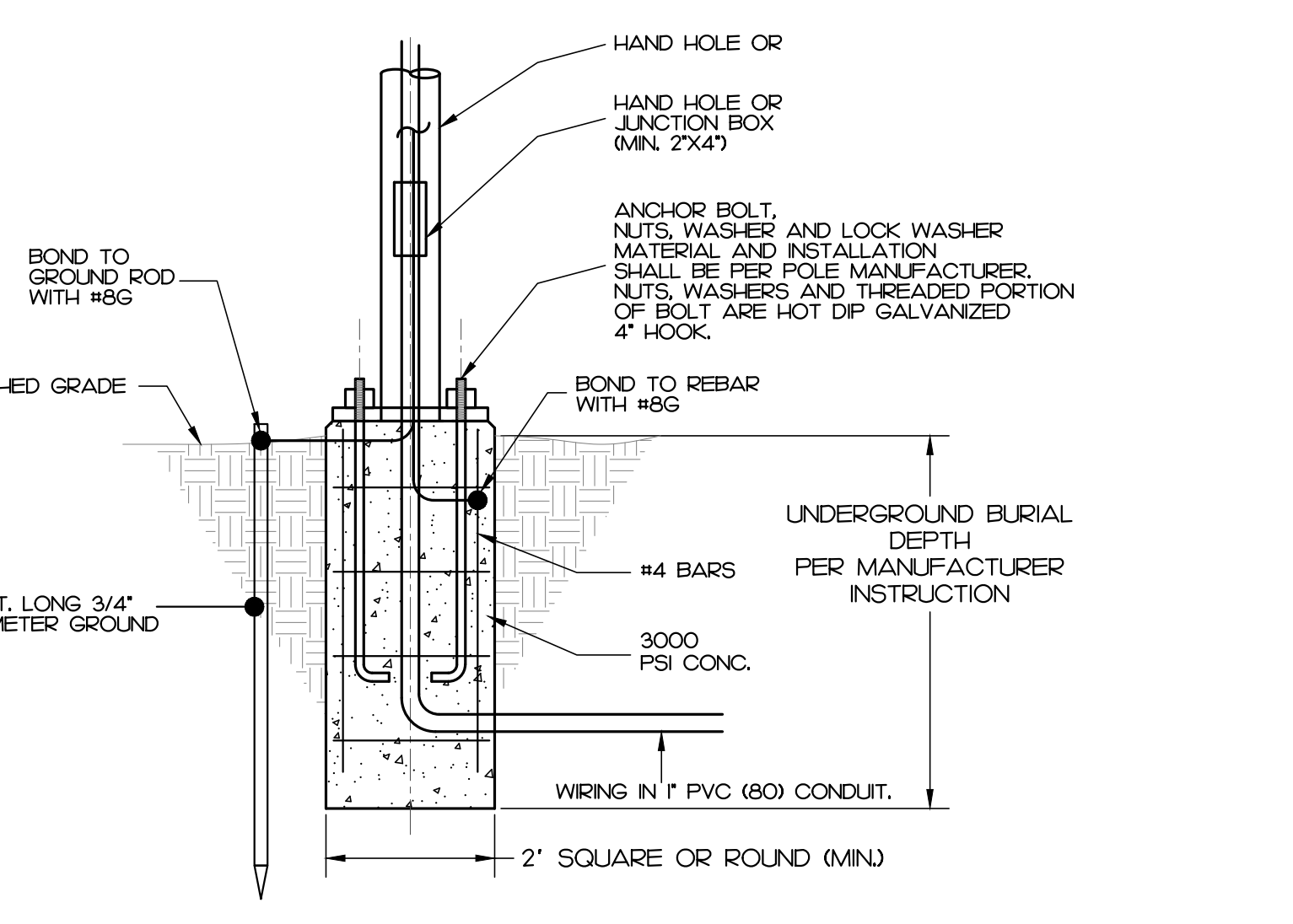
(w) MINIMUM 1\"/>

(x) MINIMUM 1\"/>

(y) MINIMUM 1\"/>

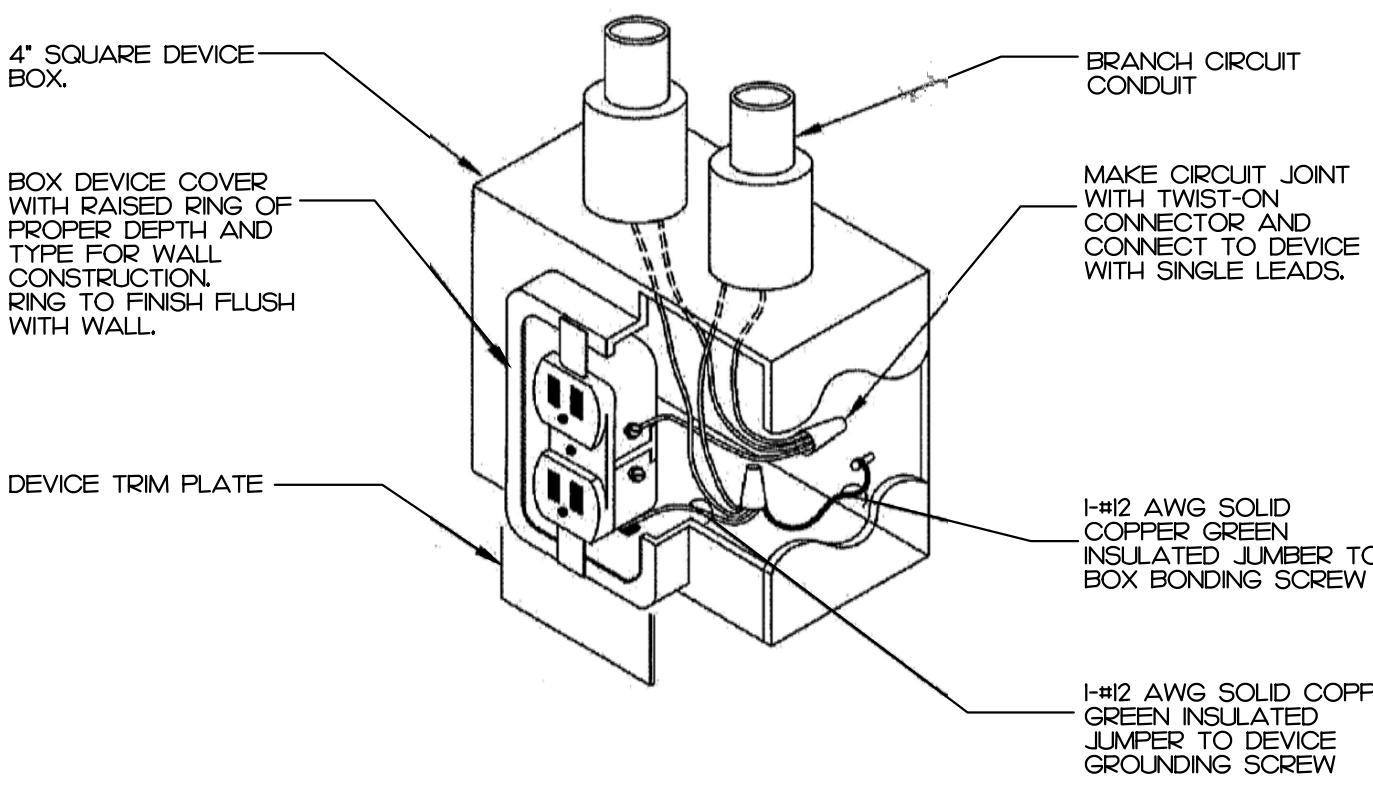
(z) MINIMUM 1\"/>

FIRE PENETRATION TYPICAL (A14)
 NOT TO SCALE

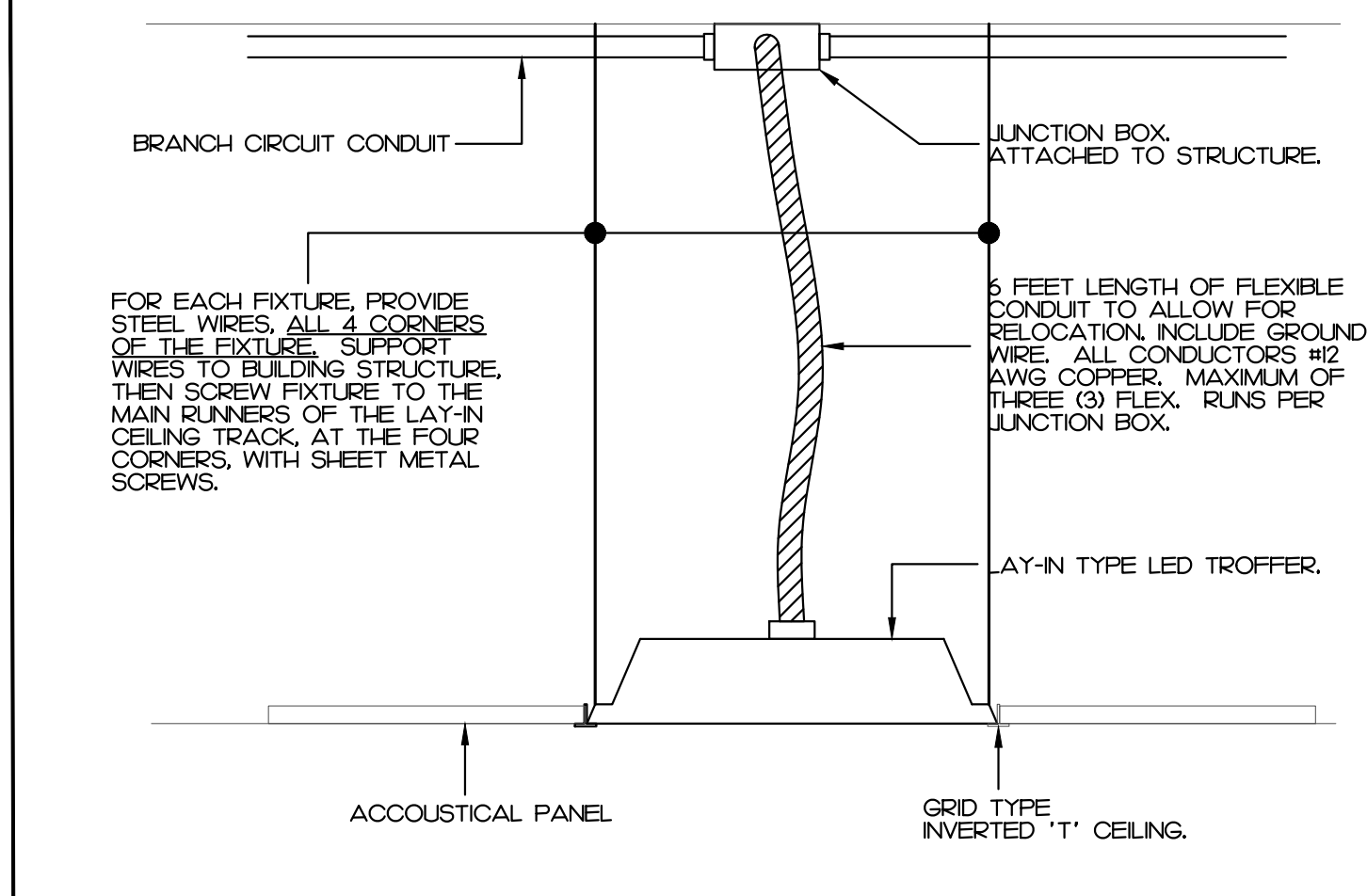


- NOTES:**
- THIS DETAIL IS A GUIDE LINE. SEE POLE MANUFACTURER INFORMATION FOR FURTHER INFORMATION. MANUFACTURER INFORMATION SHALL SUPERCEDE THE INFORMATION SHOWN ABOVE.

POLE BASE DETAIL (A5)
 NOT TO SCALE



RECEPTACLE GROUNDING DETAIL (A10)
 NOT TO SCALE



LIGHT FIXTURE MOUNTING DETAIL (F18)
 NOT TO SCALE

SCO ID #22-25191-01A; NCCCS #2675

NO REVISION DATE

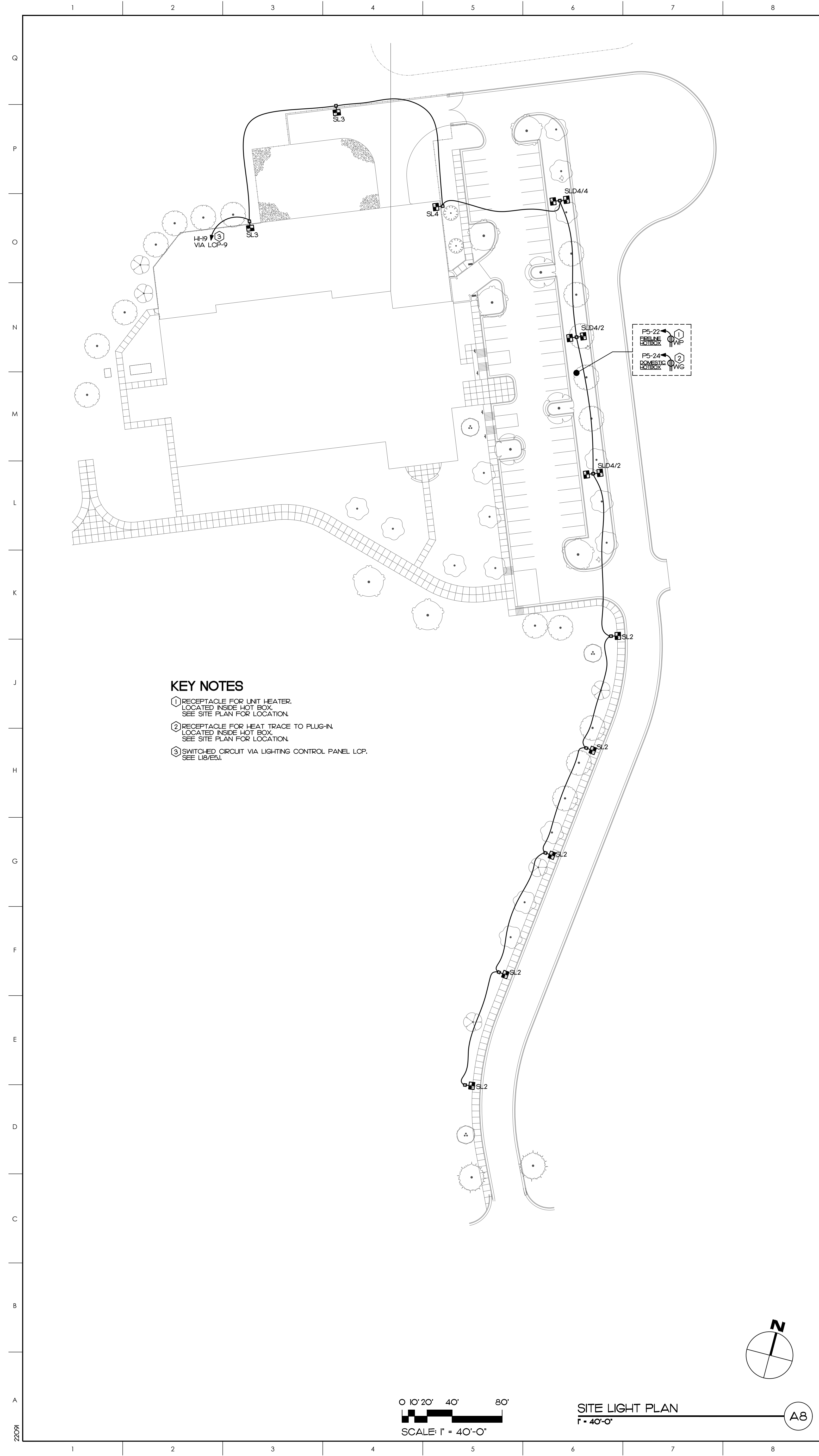
JKF
 ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27638 252-355-1048

PITT COMMUNITY COLLEGE
 NEW WELLDING BUILDING

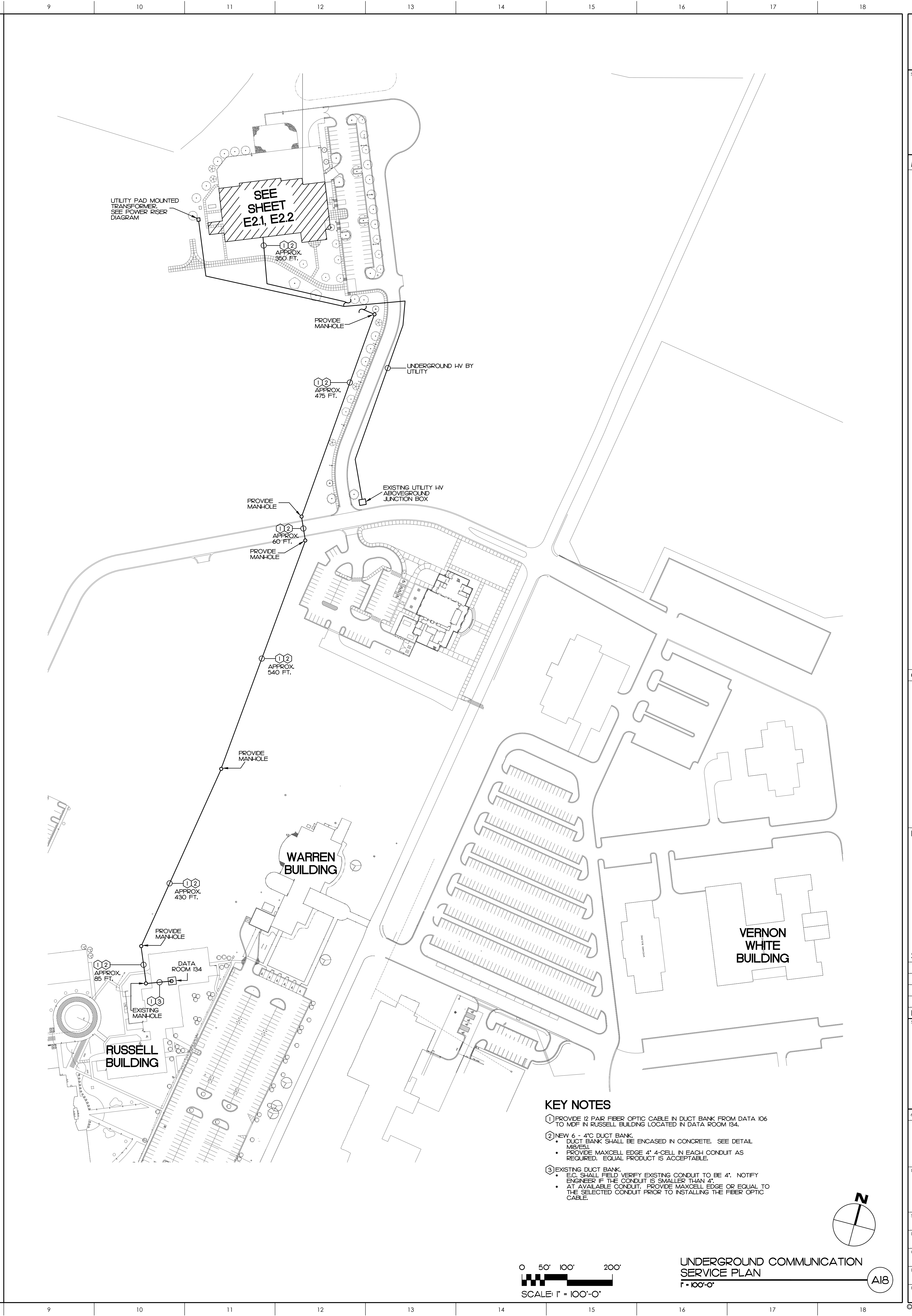
WINTERVILLE, NC
DETAILS

SCALE	AS NOTED	DRAWING NO.	
DRAWN	SP		
CHECKED	SP		E5.3
DATE	2-15-2024		
PROJECT NO.	2022-07		



- KEY NOTES**
- ① RECEPTACLE FOR UNIT HEATER. LOCATED INSIDE HOT BOX. SEE SITE PLAN FOR LOCATION.
 - ② RECEPTACLE FOR HEAT TRACE TO PLUG-IN. LOCATED INSIDE HOT BOX. SEE SITE PLAN FOR LOCATION.
 - ③ SWITCHED CIRCUIT VIA LIGHTING CONTROL PANEL LCP. SEE LIG/ENL.

SITE LIGHT PLAN
1" = 40'-0"



- KEY NOTES**
- ① PROVIDE 12 PAIR FIBER OPTIC CABLE IN DUCT BANK FROM DATA 106 TO MDF IN RUSSELL BUILDING LOCATED IN DATA ROOM 134.
 - ② NEW 6 - 4" DUCT BANK:
 - DUCT BANK SHALL BE ENCASED IN CONCRETE. SEE DETAIL M3/ENL.
 - PROVIDE MAXCELL EDGE 4" 4-CELL IN EACH CONDUIT AS REQUIRED. EQUAL PRODUCT IS ACCEPTABLE.
 - ③ EXISTING DUCT BANK:
 - EC SHALL FIELD VERIFY EXISTING CONDUIT TO BE 4" NOTIFY ENGINEER IF THE CONDUIT IS SMALLER THAN 4"
 - AT AVAILABLE CONDUIT, PROVIDE MAXCELL EDGE OR EQUAL TO THE SELECTED CONDUIT PRIOR TO INSTALLING THE FIBER OPTIC CABLE.

UNDERGROUND COMMUNICATION SERVICE PLAN
1" = 100'-0"

ATLANTEC ENGINEERS, PA
322 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH: 919 578-1111

SEAL: [Professional Engineer Seal - No. C-361]
SEAL: [Professional Engineer Seal - No. 027479]

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

SCO ID #22-25191-01A; NCCCS #2675

NO.	REVISION	DATE

NO. REVISION DATE

J K F ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1048

**PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC**

DRAWING TITLE: **SITE LIGHT PLAN
UNDERGROUND COMMUNICATION SERVICE PLAN**

SCALE	DRAWING NO.
AS NOTED	
DRAWN: SP	
CHECKED: SP	
DATE: 2-15-2024	
PROJECT NO: 2022-07	

DATE: 2-15-2024

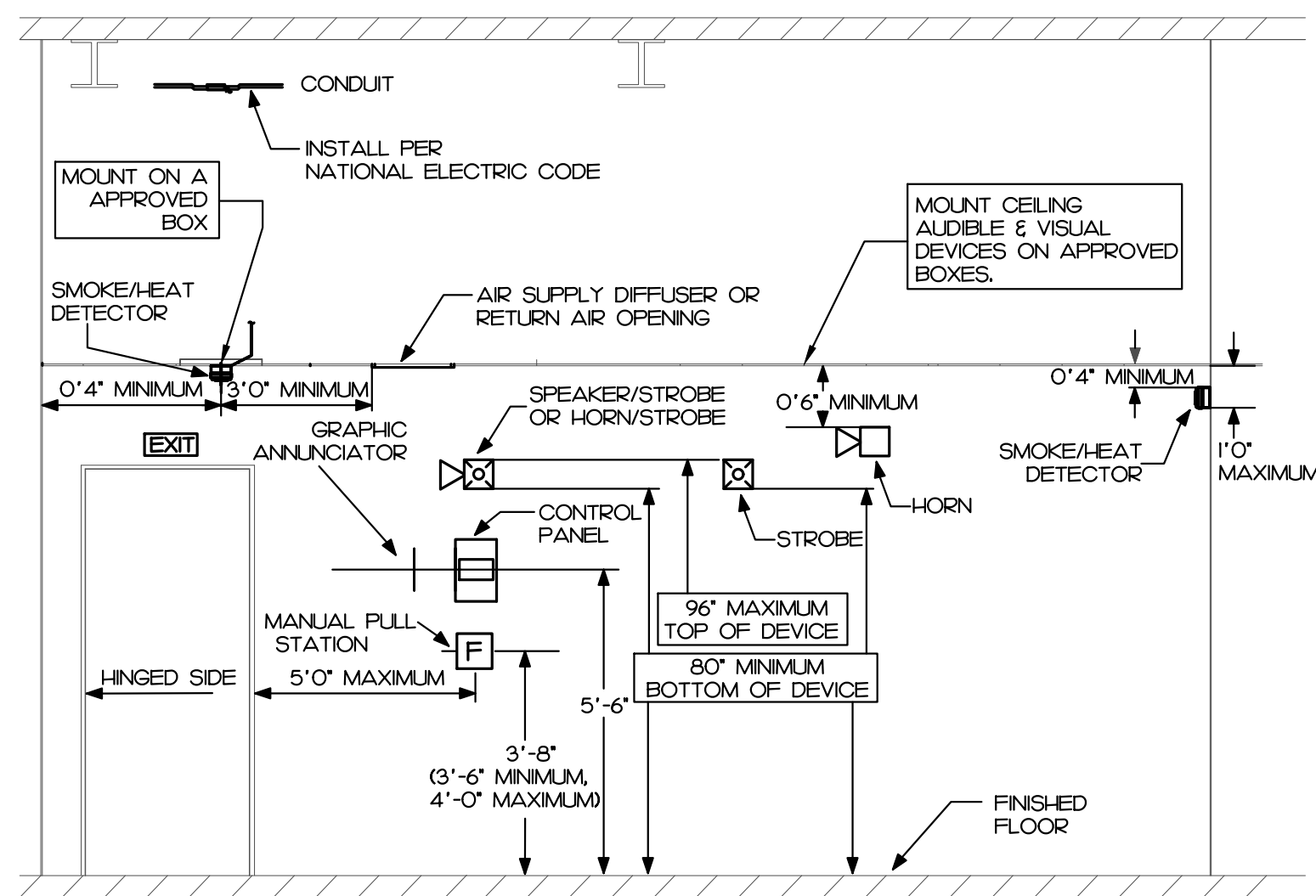
PROJECT NO: 2022-07

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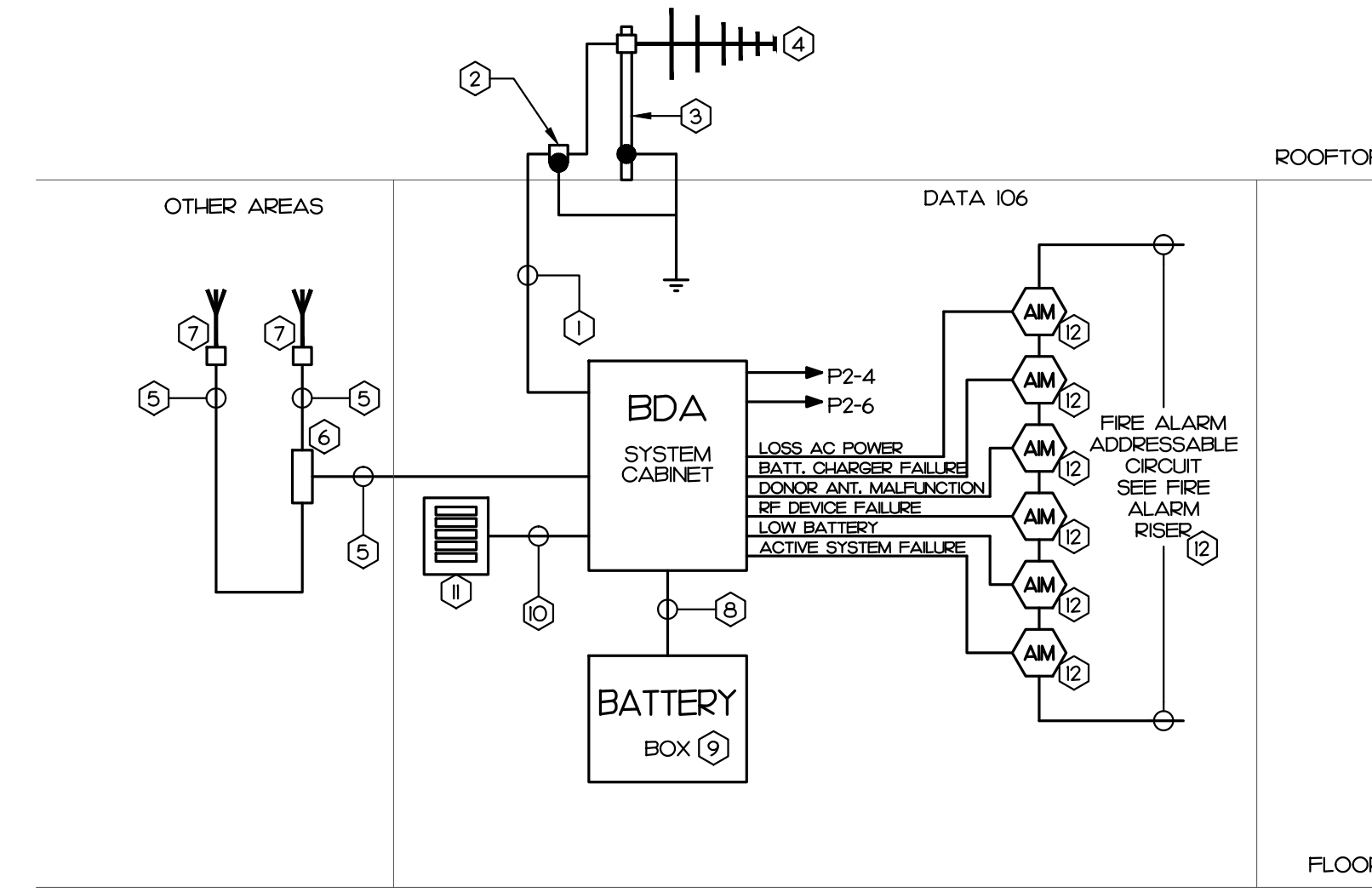
SYMBOL LEGEND

Table with 3 columns: SYMBOL, DESCRIPTION, REMARKS. Lists various fire alarm components like smoke detectors, pull stations, control panels, and communication systems.

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



FIRE ALARM DEVICE INSTALLATION DETAIL NO SCALE



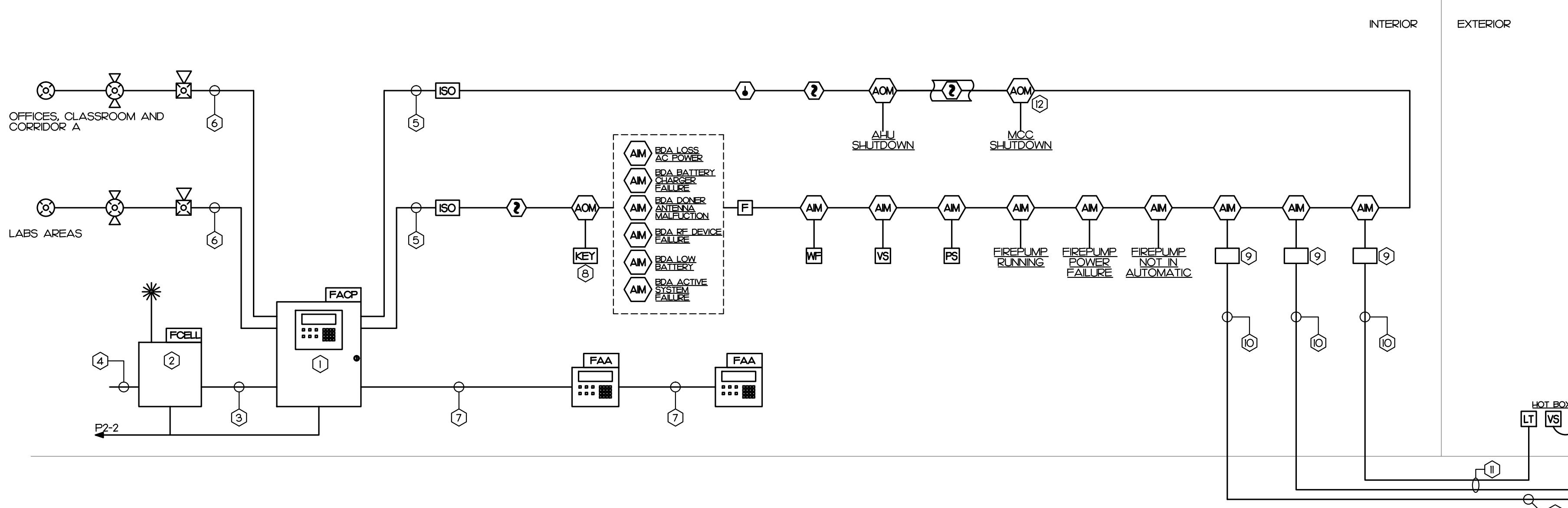
KEY NOTES

- 1 DONOR ANTENNAS CABLE IN CONDUIT.
2 PROVIDE LIGHTNING ARRESTOR, GROUNDED AS REQUIRED.
3 DONOR ANTENNA MAST, TO BE BONDED TO BUILDING STEEL.
4 DONOR ANTENNA.
5 DISTRIBUTED ANTENNA SYSTEM (DAS) CABLE IN CONDUIT.
6 PROVIDE SIGNAL SPLITTER AS REQUIRED.
7 PROVIDE DAS ANTENNAS AS REQUIRED FOR COVERAGE. FIELD VERIFY LOCATION AND INSTALLATION OUTSIDE FIRE RISER ROOM WITH ARCHITECT PRIOR TO ROUGH-IN.
8 BATTERY CABLE IN CONDUIT.
9 BATTERY BOX: 24VDC.
10 REMOTE ANNUNCIATOR CIRCUIT IN CONDUIT.
11 REMOTE ANNUNCIATOR LOCATE ADJACENT TO DATA I/O.
12 FIRE ALARM DEVICE AND WIRING. SEE FIRE ALARM RISER DIAGRAM.

NOTES

- 1 CONTRACTOR SHALL PROVIDE BIDIRECTIONAL ANTENNA SYSTEM (BDA) AS FOLLOWS:
A. PROVIDE RF SURVEY AND MAP THE EMERGENCY RESPONDER RADIO SIGNAL STRENGTH (OUTSIDE AT THE PROPERTY DRAW SURVEY)
B. FINISH SHOP DRAWINGS INCLUDING THE RADIO WAVE PROPAGATION PLAN TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO SUBMITTING TO THE TOWN OF WINTERVILLE FIRE MARSHAL OFFICE TO OBTAIN THE INSTALLATION PERMIT.
C. PROVIDE INSTALLATION PLAN INCLUDING CONDUIT ROUTING. CONDUIT ROUTING SHALL BE APPROVED BY ARCHITECT.
D. PRIOR TO FINAL INSPECTION, AN ER-RSS INSIDE SURVEY SHALL BE PERFORMED AND MAPPED. THIS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO SUBMITTING TO THE TOWN OF WINTERVILLE FIRE MARSHAL OFFICE FOR FINAL INSPECTION.
2. SHOWN DIAGRAM IS A GUIDE LINE. IF THE INSTALLATION IS REQUIRED UPON SURVEY CONTRACTOR SHALL PROVIDE INSTALLATION PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTION.
3. INSTALLATION SHALL COMPLY WITH 2018 NC FIRE CODE, 2018 NFPA 72 AND 2016 NFPA 122.

BIDIRECTIONAL ANTENNA SYSTEM DIAGRAM NO SCALE



KEY NOTES

- 1 ADDRESSABLE FACP. PROVIDE ADDITIONAL NAC PANEL AS REQUIRED.
2 CELLULAR/IP DIGITAL COMMUNICATOR. CONTRACTOR SHALL EVALUATE CELLULAR SIGNAL STRENGTH. PROVIDE EXTERIOR ANTENNA WITH ANTENNA WIRING IN CONDUIT IF NEEDED. EXTERIOR ANTENNA LOCATION SHALL BE APPROVED BY ARCHITECT.
3 COMMUNICATION WIRES FOR CELLULAR COMMUNICATOR CONNECTION PER MANUFACTURER INSTRUCTION.
4 INTERNET CONNECTION BY OWNER CONTRACTOR. ETC. SHALL PROVIDE PATCH PANEL TO CONNECT TO COMMUNICATION OUTLET.
5 CLASS A ADDRESSABLE CIRCUITS. PROVIDE ISOLATOR MODULES AS REQUIRED. SEE SPECIFICATION FOR DETAIL.
6 NOTIFICATION APPLIANCE CIRCUITS AS REQUIRED.
7 REMOTE ANNUNCIATOR CIRCUIT IN CONDUIT.
8 PROVIDE KEY OPERATED SWITCH FOR 'AHJ SHUTDOWN DEFEAT'. LABEL SWITCH 'AHJ SHUTDOWN DEFEAT'. LABEL ON POSITION 'NORMAL'. LABEL OFF POSITION 'DEFEAT'.
9 PROVIDE SURGE PROTECTION FOR DATA LINE AS REQUIRED.
10 MONITOR CIRCUIT FOR HOT BOX TAMPER SWITCHES AND LOW TEMPERATURE SENSOR.
11 WIRING IN F UNDER GROUND CONDUIT. MINIMUM BURIAL DEPTH OF 24" BIF/G.
12 PROVIDE RELAY TO SHUTDOWN MCC AS REQUIRED. FIELD VERIFY RELAY TYPE WITH MCC MANUFACTURER PRIOR TO ORDERING.

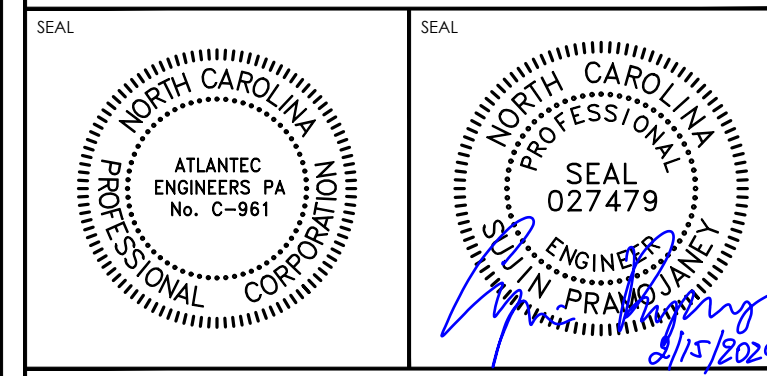
FIRE ALARM NOTES

- 1 SEE PLANS FOR QUANTITY AND LOCATION OF ALL EQUIPMENT.
2 CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENT PER 2018 FIRE CODE SECTION 907.1.2 TO ENGINEER FOR APPROVAL PRIOR TO SUBMIT TO AND TESTING BY TOWN OF WINTERVILLE FIRE MARSHAL'S OFFICE.
3 PLACARD THE ENTIRE FIRE ALARM SYSTEM. PROVIDE PANEL AND CIRCUIT NUMBERS ON A NAME PLATE AFFIXED TO THE FACE OF THE FIRE ALARM CONTROL PANEL.
4 CONTRACTOR SHALL PROVIDE ZONE MAPS COMPLETE WITH ADDRESSES FOR EACH FIRE ALARM DEVICE IN WOODEN FRAME ADJACENT TO THE NEW FIRE ALARM CONTROL PANEL.
5 ELECTRICAL CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS AND OUT SHEETS FOR FIRE ALARM SYSTEM TO ENGINEER FOR APPROVAL.
6 ALL WIRING SHALL BE SUPERVISED.
7 ALL WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
8 ALL WIRING SHALL BE IN CONDUIT.
9 ADDRESSABLE SLC CIRCUIT REQUIREMENTS:
- WIRING SHALL BE 'CLASS A'
- SEE SPECIFICATION.
10 NOTIFICATION APPLIANCE REQUIREMENTS:
- WIRING SHALL BE 'CLASS B'
- PROVIDE WITH 'SING. MODULE' AS REQUIRED PER NFPA 72.
- FURNISH NOTIFICATION CIRCUITS AS REQUIRED TO ACCOMMODATE CIRCUIT LOADINGS. NO NOTIFICATION CIRCUIT SHALL BE LOADED TO MORE THAN BOX CAPACITY.
11 NOTIFICATION APPLIANCE RATINGS:
- PROVIDE SOUND (SD) AND CANDELA (CD) RATINGS FOR ALL HORN/STROBE DEVICES PER NFPA 72. ALL VISIBLE NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED PER NFPA 72, 1853.3.7 AND 1853.6.
- A DECIBEL LEVEL OF 15 DB ABOVE AMBIENT ON NFPA 72 TABLE A8.4.3.3 SHALL BE MAINTAINED IN ALL GENERAL AREAS AND 100 DB (5 DB ABOVE AN AMBIENT OF 95 DB IN NFPA 72, 1843.1) SHALL BE MAINTAINED IN ALL MECHANICAL EQUIPMENT ROOMS PER NFPA 72 AND THE 2018 NORTH CAROLINA STATE BUILDING CODE SECTION 907.6.2.
12 DIGITAL ALARM COMMUNICATOR:
- FIRE ALARM SYSTEM SHALL BE WITH DIGITAL ALARM COMMUNICATOR (DAC).
- DAC SHALL HAVE CAPABILITY TO HANDLE 2 PHONE LINES.
- WHERE DUAL COMMUNICATION PATHS OF CELLULAR NETWORK AND INTERNET NETWORK ARE REQUIRED BY THE LOCAL FIRE MARSHAL, PROVIDE WITH COMMUNICATOR IN lieu OF 2-LINE TELEPHONE.
- FIELD COORDINATE WITH OWNER TO TYPE MATCH MONITORING COMPANY.

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

Matrix table showing connections between system inputs (e.g., Fire Alarm System AC Power Failure, Open Circuit, Ground Fault) and system outputs (e.g., FACP Annunciation, Notification, Required Fire Safety Control).

FIRE ALARM RISER DIAGRAM NO SCALE



MATERIALS KEYING LEGEND

Table for materials keying legend, including general notes, key plan, and revision table.

GENERAL NOTES

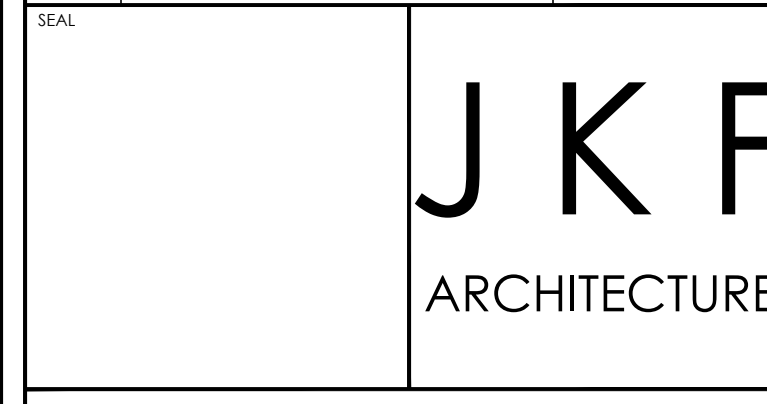
Table with 3 columns: NO, REVISION, DATE. Contains one revision entry.

KEY PLAN

Table with 3 columns: NO, REVISION, DATE. Contains one revision entry.

SCO ID #22-25191-01A; NCCCS #2675

Table with 3 columns: NO, REVISION, DATE. Contains one revision entry.



PITT COMMUNITY COLLEGE NEW WELDING BUILDING WINTERVILLE, NC

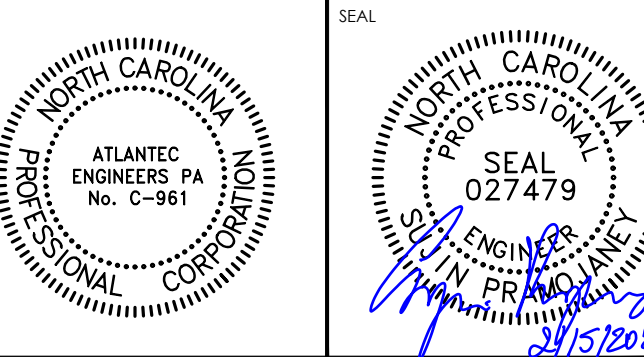
FIRE ALARM LEGEND, NOTES RISER DIAGRAM BDA SYSTEM DIAGRAM

Table with 3 columns: DRAWING TITLE, SCALE, DATE. Contains drawing title, scale (NO SCALE), and date (2-15-2024).

COORDINATION DRAWINGS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETINGS TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 0300.

SEE DRAWING FAJZ



MATERIALS KEYING LEGEND

KEY NOTES

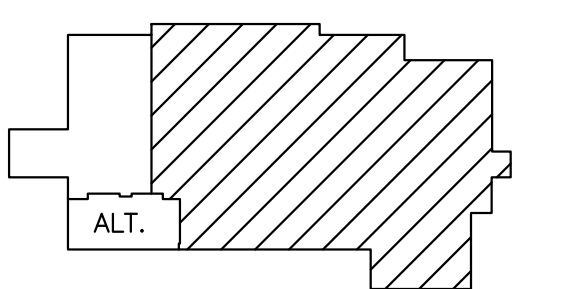
- ① FIRE ALARM EQUIPMENT INSIDE HOT BOX. SEE SITE PLAN FOR LOCATION.
- ② MOUNT NOTIFICATION APPLIANCE TO CEILING OF ROBOTIC HOOD CAPTURE SYSTEM. CEILING IS 10 FT. AFF OR LOWER.
- ③ SEE DETAIL A18/FAL3 FOR NOTIFICATION APPLIANCE ABOVE THIS AREA.
- ④ FIRE ALARM EQUIPMENT AT FRY VALVE. SEE SITE PLAN FOR LOCATION.

NOTES:

- 1. FOR ALL AREAS WITH CEILING, CEILING IS 10 FT. AFF. EXCEPT THE FOLLOWING AREAS ARE WITH CEILING HIGHER THAN 10 FT. BUT LOWER THAN 20 FT.:
 - a. LOBBY 101
 - b. RECEPTION 101
 - c. CORRIDOR A
 SEE ARCHITECTURAL PLAN FOR INFORMATION.

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE

JKF
ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27608 252-355-1048

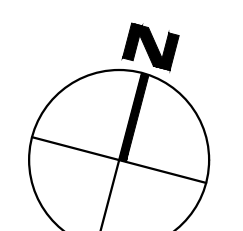
PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC

DRAWING TITLE
PARTIAL
FIRE ALARM PLAN

SCALE 1/8" = 1'-0"	DRAWING NO.
DRAWN SP	FAJ1
CHECKED SP	
DATE 2-15-2024	
PROJECT NO. 2022-07	



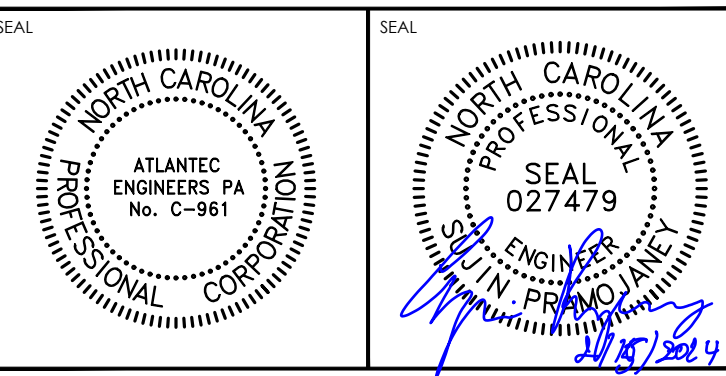
PARTIAL
FIRE ALARM PLAN
1/8" = 1'-0"



A18

COORDINATION DRAWINGS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETINGS TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 0300.

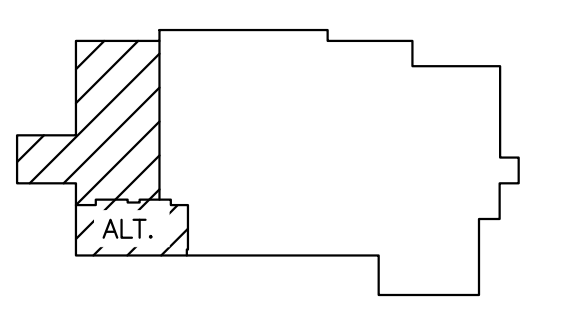


MATERIALS KEYING LEGEND

NO.	REVISION	DATE

GENERAL NOTES

KEY PLAN

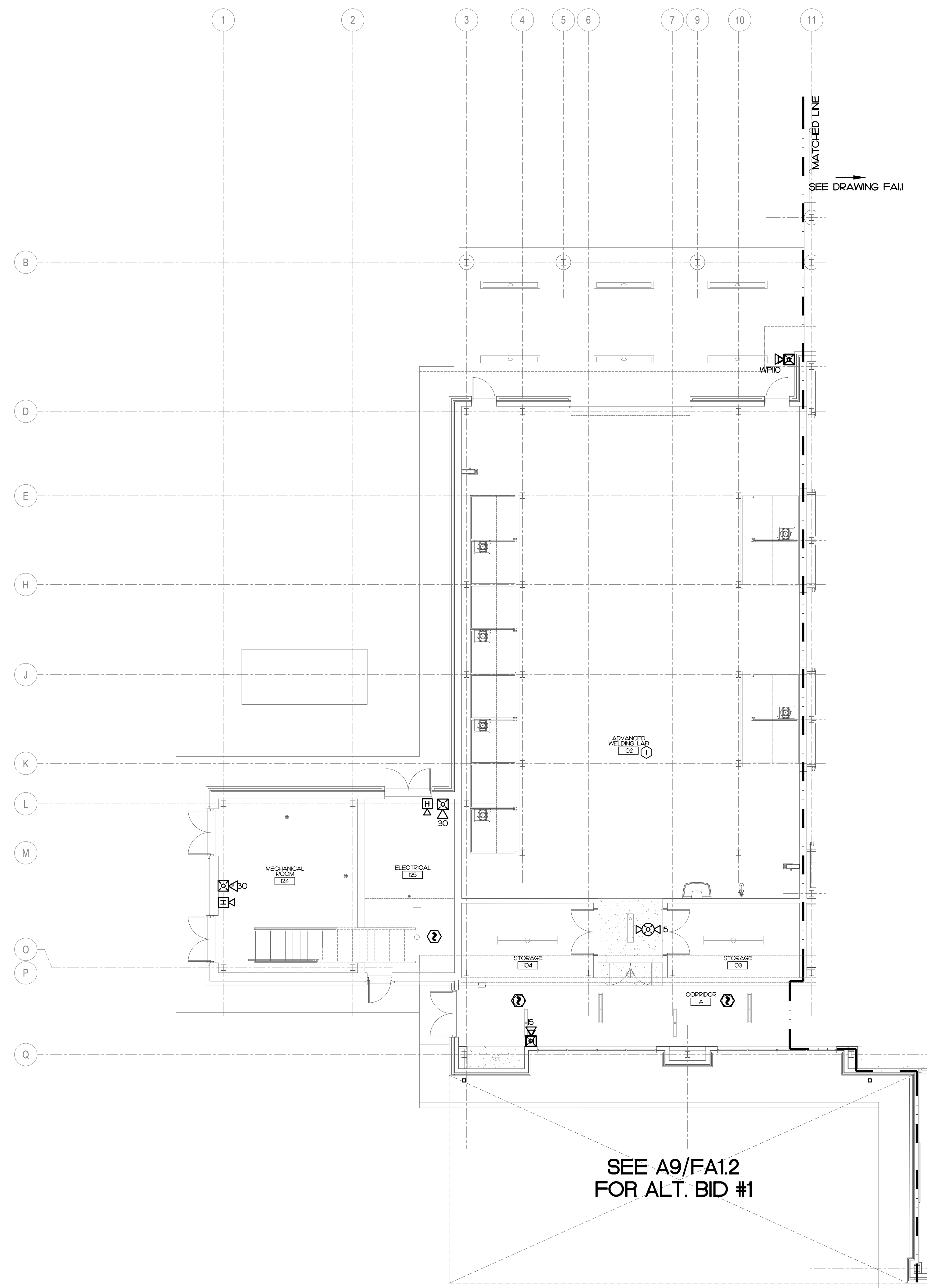


SCO ID #22-25191-01A; NCCCS #2675

JKF ARCHITECTURE
 425 LYNDALE CT., SUITE F, GREENVILLE, NC 27608 252.355.1048

**PITT COMMUNITY COLLEGE
 NEW WELDING BUILDING**
 WINTERVILLE, NC
**PARTIAL
 FIRE ALARM PLAN**

SCALE	1/8" = 1'-0"	DRAWING NO.	FA1.2
DRAWN	SP		
CHECKED	SP		
DATE	2-15-2024		
PROJECT NO.	2022-07		

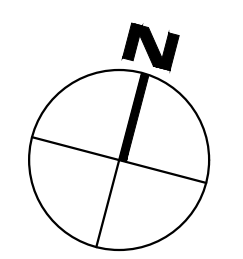


KEY NOTES
 1 SEE DETAIL JB/FA1.3 FOR NOTIFICATION APPLIANCE ABOVE THIS AREA.

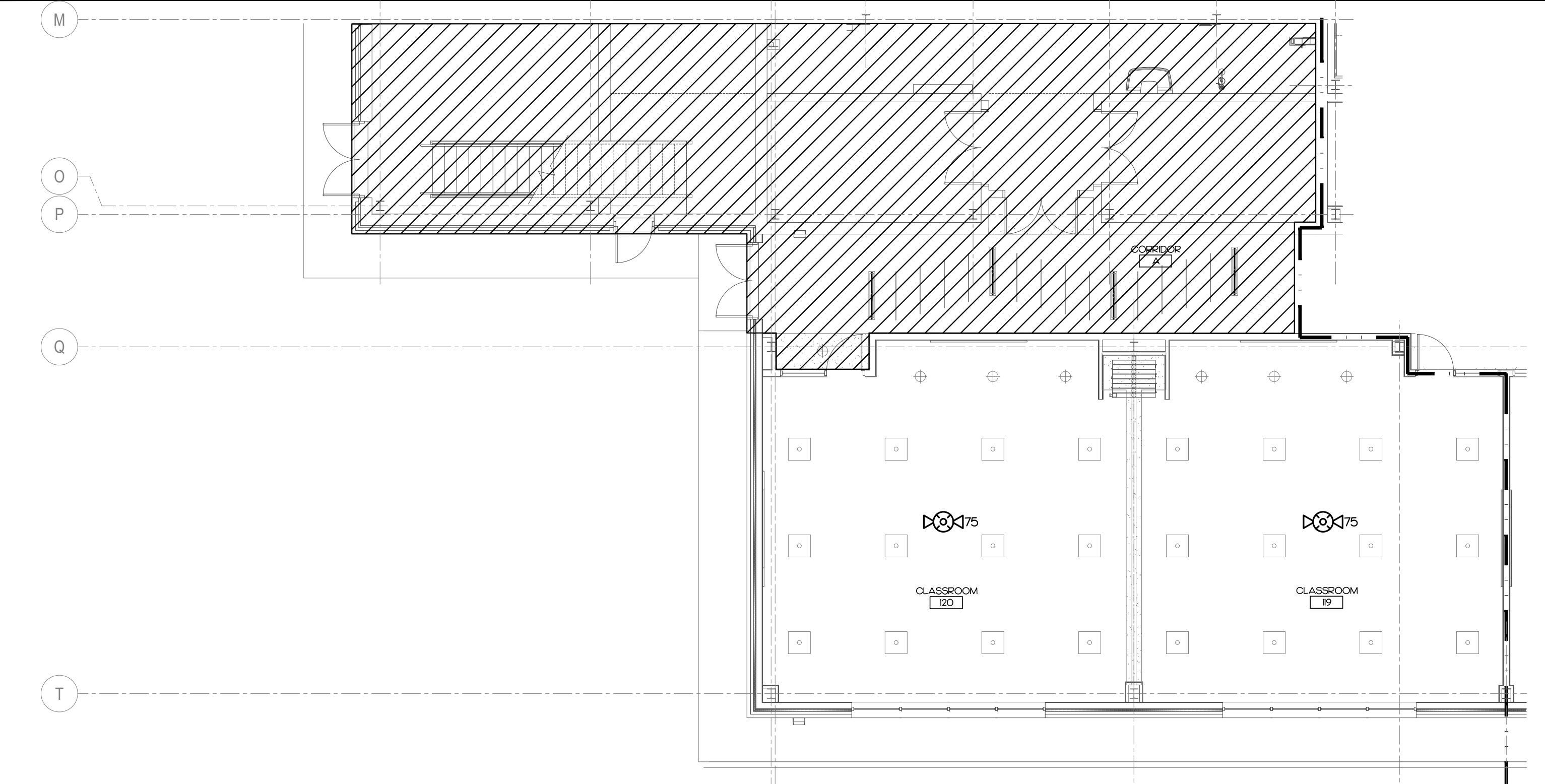
NOTES:
 1 FOR ALL AREAS WITH CEILING, CEILING IS 10 FT. AFF. EXCEPT THE FOLLOWING AREAS ARE WITH CEILING HIGHER THAN 10 FT. BUT LOWER THAN 20 FT.:
 a. LOBBY 100
 b. RECEPTION 101
 c. CORRIDOR A
 SEE ARCHITECTURAL PLAN FOR INFORMATION.



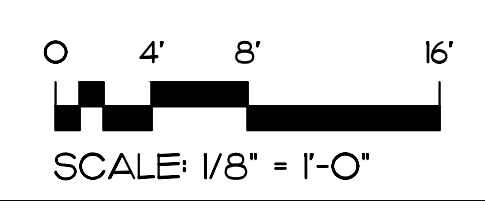
**BASE BID
 PARTIAL
 FIRE ALARM PLAN**
 1/8" = 1'-0"



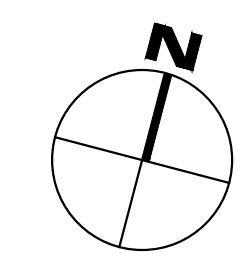
A18



NOTES:
 1 FOR ALL AREAS WITH CEILING, CEILING IS 10 FT. AFF. EXCEPT THE FOLLOWING AREAS ARE WITH CEILING HIGHER THAN 10 FT. BUT LOWER THAN 20 FT.:
 a. LOBBY 100
 b. RECEPTION 101
 c. CORRIDOR A
 SEE ARCHITECTURAL PLAN FOR INFORMATION.



**ALT BID #1
 PARTIAL
 FIRE ALARM PLAN**
 1/8" = 1'-0"



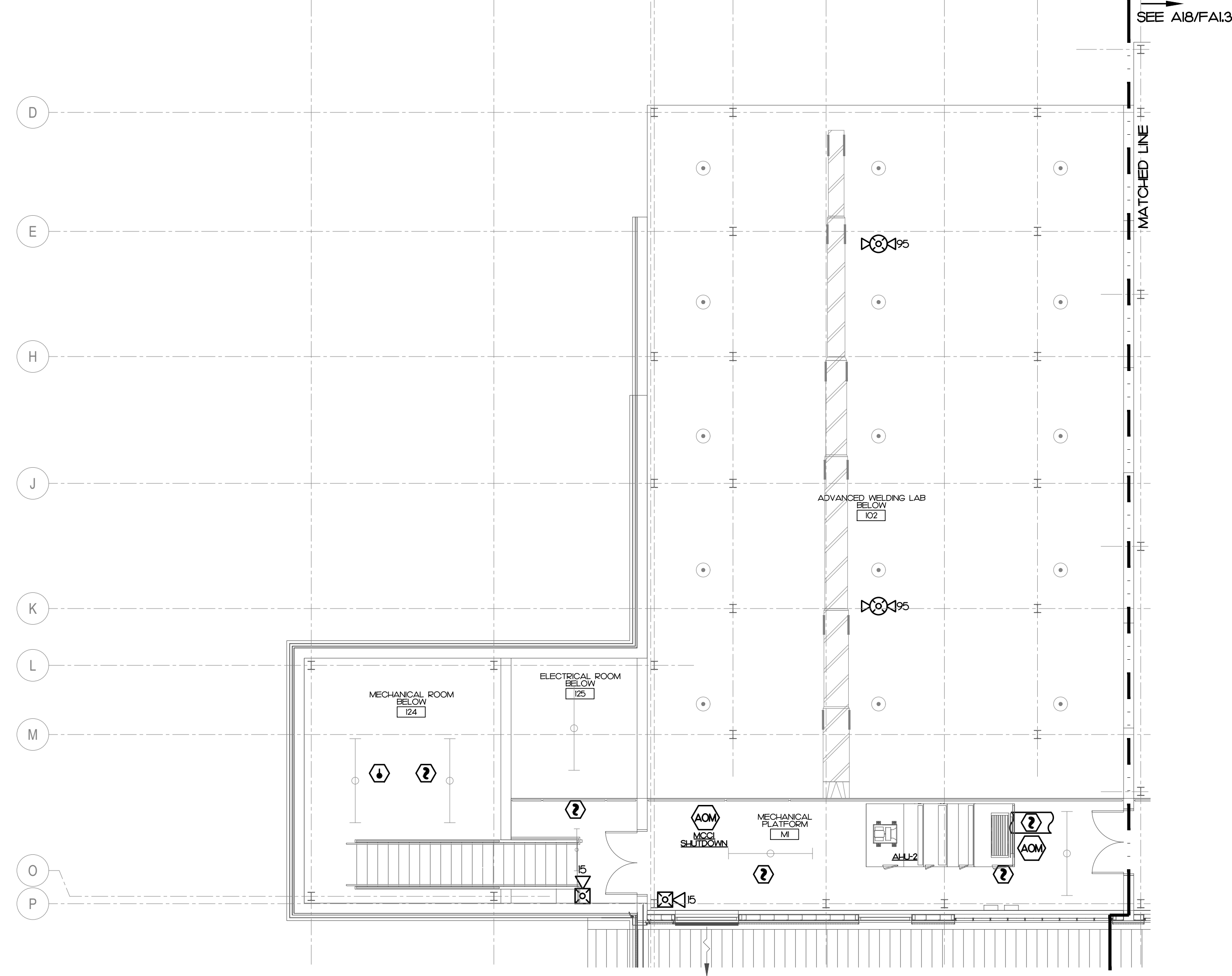
A9

COORDINATION DRAWINGS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETINGS TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 0300.

KEY NOTES

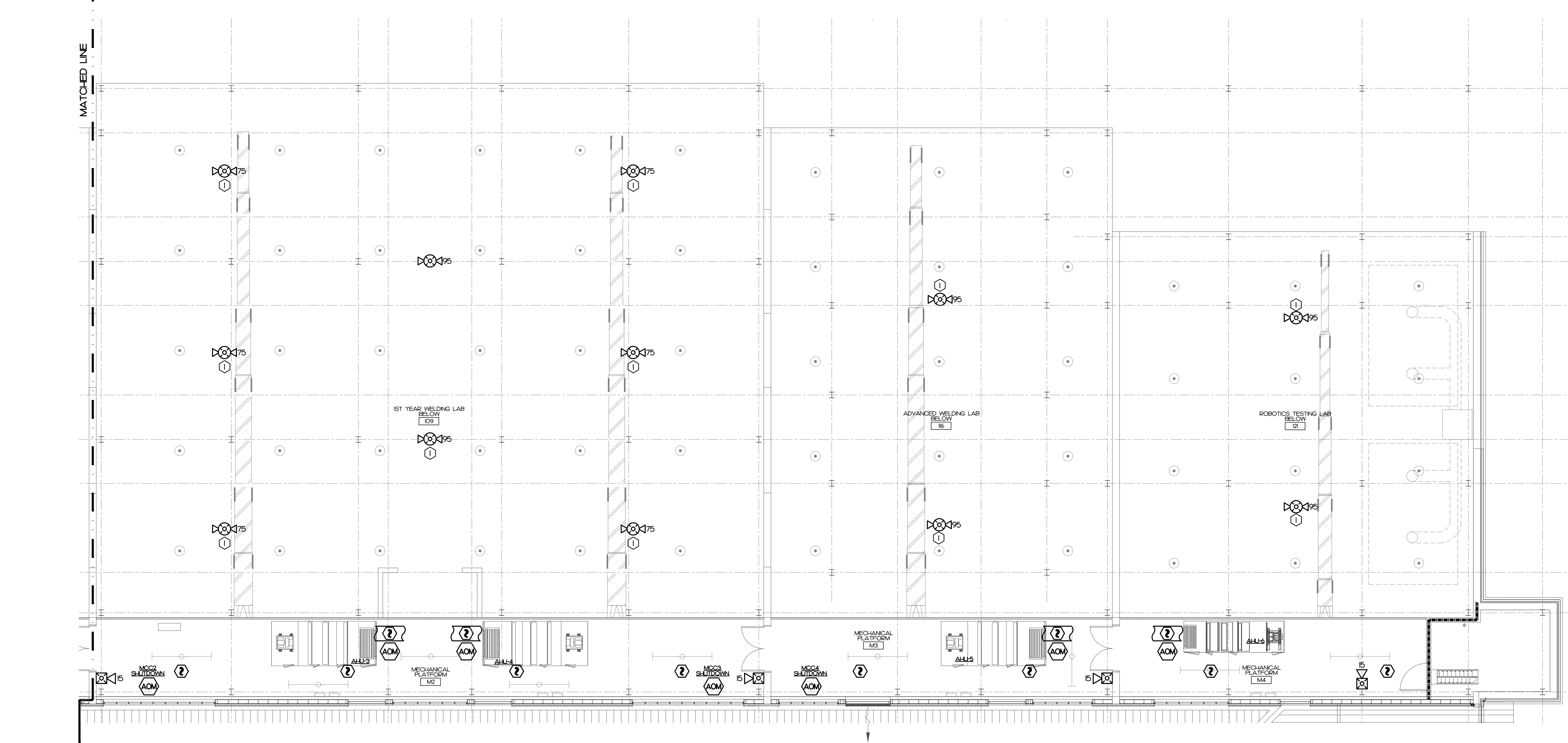
1 NOTIFICATION APPLIANCE HEIGHT SHALL BE THE SAME HEIGHT AS OR LOWER THAN NEAREST HIBAY FIXTURE AND DUCT WORK. LIGHT FIXTURE AND DUCT WORK SHALL NOT BLOCK THE NOTIFICATION APPLIANCE COVERAGE. TYPICAL HEIGHT IS APPROX. 16 FT. FIELD COORDINATE WITH M.C. AND E.C. PRIOR TO ROUGH-IN.



PARTIAL - MECHANICAL PLATFORM
FIRE ALARM PLAN
1/8" = 1'-0"

J18

SEE J18/FA13

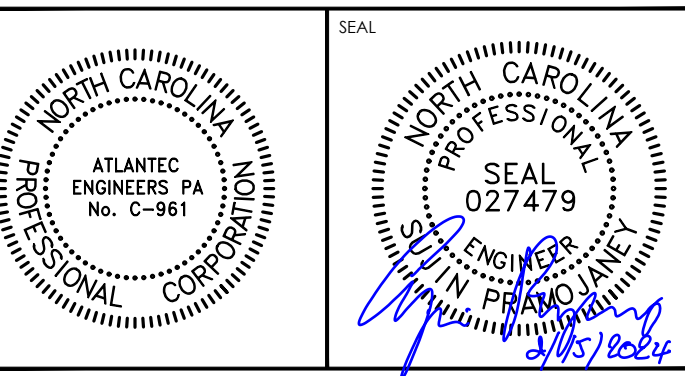


KEY NOTES

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PARTIAL - MECHANICAL PLATFORM
FIRE ALARM PLAN
1/8" = 1'-0"

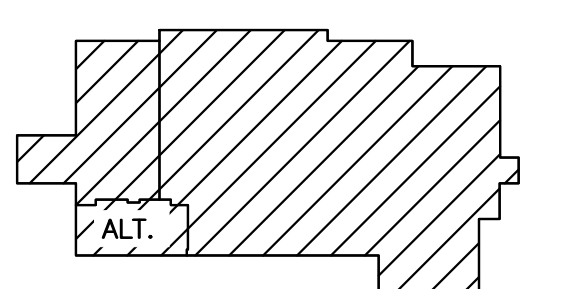
A18



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN



SCO ID #22-25191-01A; NCCCS #2675

NO	REVISION	DATE



425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1048

PITT COMMUNITY COLLEGE
NEW WELDING BUILDING
WINTERVILLE, NC
MECHANICAL PLATFORM
FIRE ALARM PLAN

SCALE	1/8" = 1'-0"	DRAWING NO.	FA1.3
DRAWN	SP	CHECKED	SP
DATE	2-15-2024	PROJECT NO.	2022-07