

THE TOWN OF COLEBROOK
OFFICE OF THE SUPERINTENDENT

CONTRACT DOCUMENTS
FOR
HVAC UPGRADES
AT

COLEBROOK CONSOLIDATED SCHOOL
452 SMITH HILL ROAD
COLEBROOK CONNECTICUT 06021

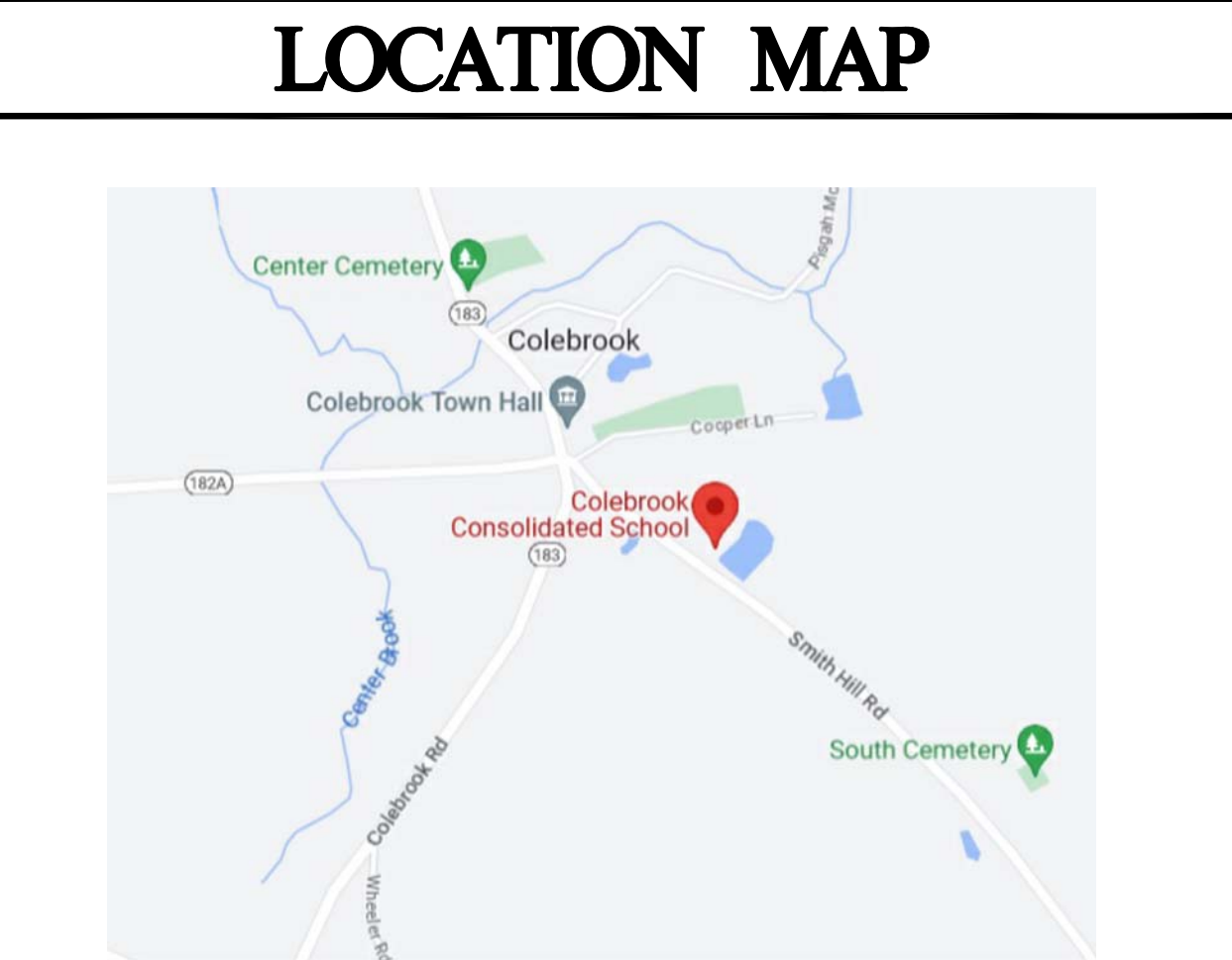
STATE PROJECT #CV 029-003 HVAC

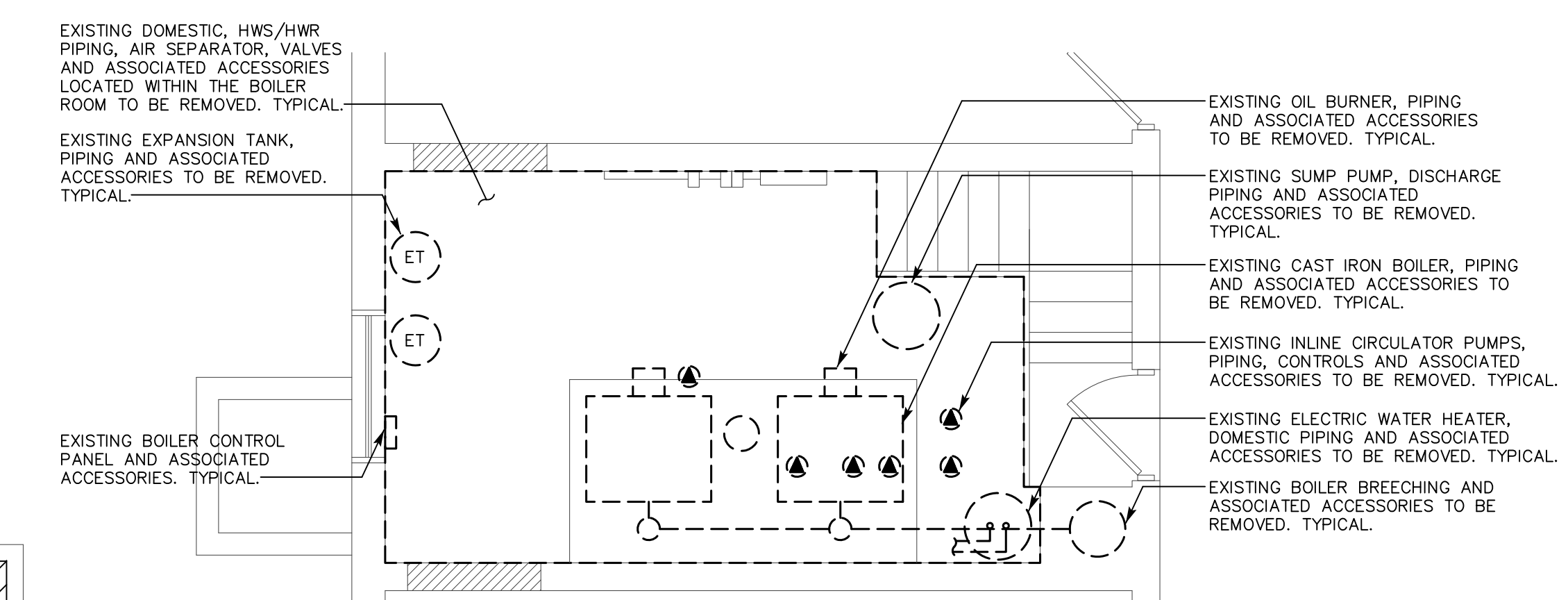
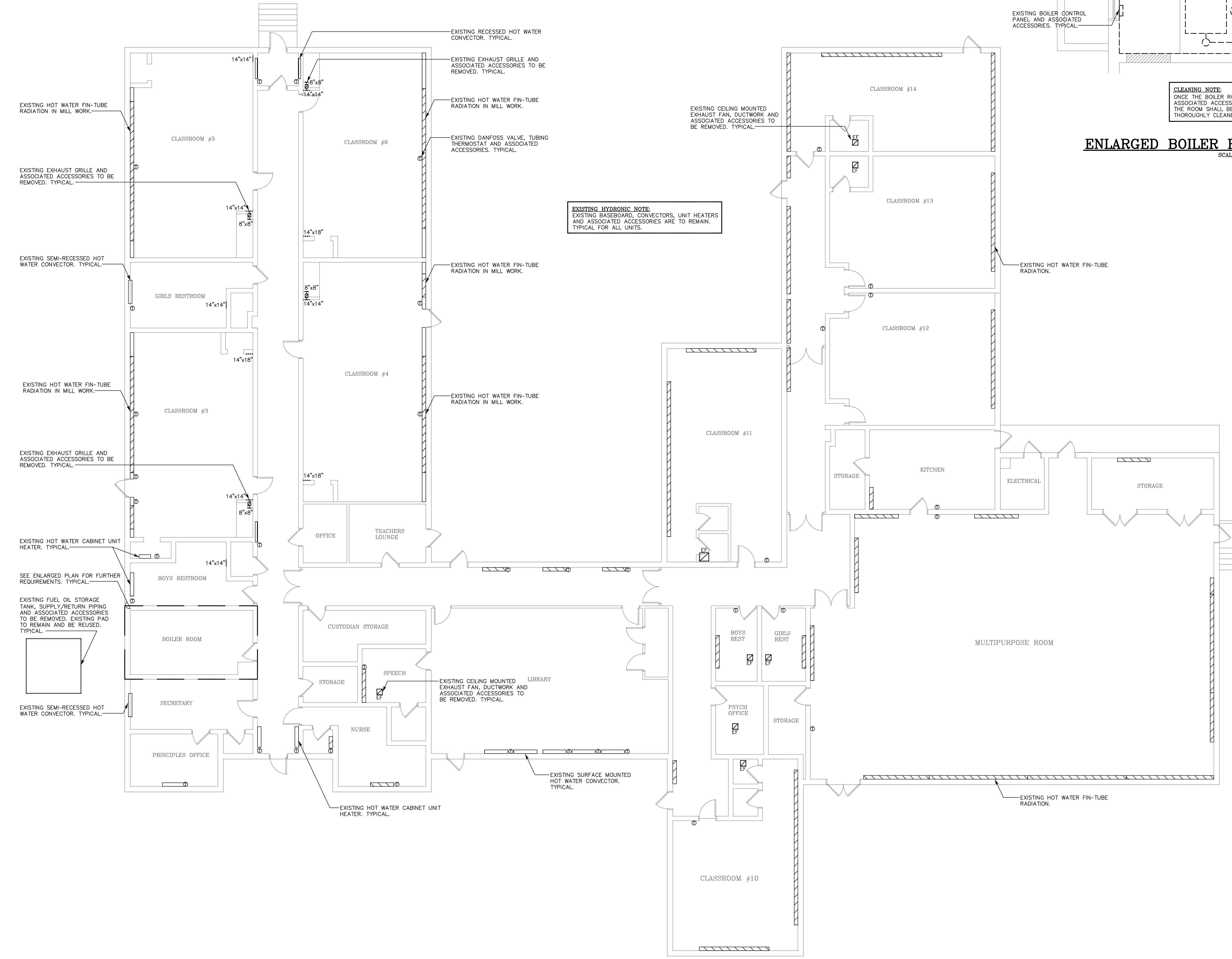
JANUARY 24, 2024

SALAMONE
&
ASSOCIATES, P.C.

CONSULTING ENGINEERS
116 North Plains Industrial Road
Wallingford, Connecticut 06492
Phone: (203) 281-6895 Fax: (203) 287-8728

DRAWING LIST	
DWG	TITLE
COVER	
DM-1	FIRST FLOOR AND ENLARGED BOILER ROOM MECHANICAL DEMOLITION PLANS
DM-2	ATTIC MECHANICAL DEMOLITION PLAN
DE-1	FIRST FLOOR AND ENLARGED BOILER ROOM MECHANICAL DEMOLITION PLANS
DE-2	ATTIC ELECTRICAL DEMOLITION PLAN
L-1	TUNNEL AND ENLARGED BOILER ROOM LAYOUT PLANS
P-1	TUNNEL AND ENLARGED BOILER ROOM PLUMBING PLANS
P-2	FIRST FLOOR PLUMBING PLAN
P-3	PLUMBING SCHEDULES, DETAILS, NOTES, SYMBOLS AND ABBREVIATIONS
M-1	TUNNEL AND ENLARGED BOILER ROOM MECHANICAL PLANS
M-2	FIRST FLOOR MECHANICAL PLAN
M-3	ATTIC MECHANICAL PLAN
M-4	MECHANICAL DETAILS
M-5	MECHANICAL DETAILS
M-6	MECHANICAL DIAGRAMS
M-7	MECHANICAL SCHEDULES, NOTES, SYMBOLS, AND ABBREVIATIONS
E-1	TUNNEL AND ENLARGED BOILER ROOM ELECTRICAL PLANS
E-2	FIRST FLOOR ELECTRICAL PLAN
E-3	ATTIC ELECTRICAL PLAN
E-4	ELECTRICAL PANELBOARD SCHEDULES
E-5	ELECTRICAL POWER RISER DIAGRAM
E-6	ELECTRICAL SYMBOLS, DETAILS, NOTES AND ABBREVIATIONS
SE-1	SITE ELECTRICAL PLAN





CLEANING NOTE:
ONCE THE BOILER ROOM EQUIPMENT, PIPING AND ASSOCIATED ACCESSORIES HAVE BEEN REMOVED THE ROOM SHALL BE PRESSURE WASHED AND THOROUGHLY CLEANED.

EXISTING HYDRONIC NOTE:
EXISTING BASEBOARD, CONVECTORS, UNIT HEATERS AND ASSOCIATED ACCESSORIES ARE TO REMAIN. TYPICAL FOR ALL UNITS.

- ALTERNATE/ALLOWANCE NOTES:**
1. THE PROJECT SHALL INCLUDE A \$20,000.00 ALLOWANCE FOR THE EXISTING HYDRONIC PIPING/SYSTEM REPAIRS WITHIN THE TUNNELS AND ATTIC.
 2. THE PROJECT SHALL INCLUDE DEDUCT ALTERNATE #1 FOR THE GYM'S RTU-1, ASSOCIATED DUCTWORK, DIFFUSERS/GRILLES, CONTROLS, CEILING MOUNTED FANS (FAN-1/FAN-2) AND ASSOCIATED ACCESSORIES. TYPICAL.
 3. THE PROJECT SHALL INCLUDE ADD ALTERNATE #1 FOR THE SECOND BOILER (B-2) VENTING, PIPING, PUMP AND ASSOCIATED ACCESSORIES. TYPICAL.
 4. THE PROJECT SHALL INCLUDE ADD ALTERNATE #2 FOR THREE (3) SUMP PUMPS (SUMP-2) PIPING AND ASSOCIATED ACCESSORIES LOCATED IN TUNNELS. TYPICAL.
 5. THE PROJECT SHALL INCLUDE ADD ALTERNATE #3 FOR LOCATING THE TWO (2) PROPANE TANKS UNDERGROUND, INCLUDING BUT NO LIMITED TO: DEADMEN, ANCHORING BACKFILL, RE-GRADING, TURF RESTORATION, ETC.

- MECHANICAL NOTES:**
1. THE CONTRACTOR(S) SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING, NOTING EXISTING CONDITIONS AND EQUIPMENT. IF SAID IS NOT BEING REMOVED AS PART OF PROJECT OR IS NOTED AS EXISTING TO REMAIN AND IMPENDS PROVIDING PROPOSED EQUIPMENT AND/OR PROVIDING PROPOSED SCOPE OF WORK, EQUIPMENT SHALL BE TEMPORARILY RELOCATED AND COMPLETELY REINSTALLED AFTER PROPOSED SCOPE OF WORK IS COMPLETED. THIS SHALL BE PART OF BASE BID AND CONTRACTORS SHALL BID ACCORDINGLY. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR RELATED WORK OF COORDINATION WITH EXISTING CONDITIONS.
 2. REMOVE AND PROPERLY DISPOSE OF EQUIPMENT AND ASSOCIATED COMPONENTS/ACCESSORIES AS INDICATED ON DEMOLITION PLANS. PROPERLY DISPOSE OF ALL DEMOLITION DEBRIS AS REQUIRED BY FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. TYPICAL.
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 8. BUILDING WILL BE OCCUPIED DURING ALL PHASES OF CONSTRUCTION. CONTAIN AND CONTROL CONSTRUCTION DEBRIS SO AS NOT TO INTERFERE WITH DAILY OPERATION OF BUILDING. KEEP EGRESS PATHS FREE FROM DAILY OPERATION OF BUILDING.

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

REVISIONS		
REV.	DESCRIPTION	DATE

CONSULTANT:

SALAMONE & ASSOCIATES, P.C.
CONSULTING ENGINEERS
116 North Plains Industrial Road
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COLEBROOK CONSOLIDATED SCHOOL
STATE PROJECT # CV 09-008 HVAC
COLEBROOK, CONNECTICUT

DRAWING TITLE

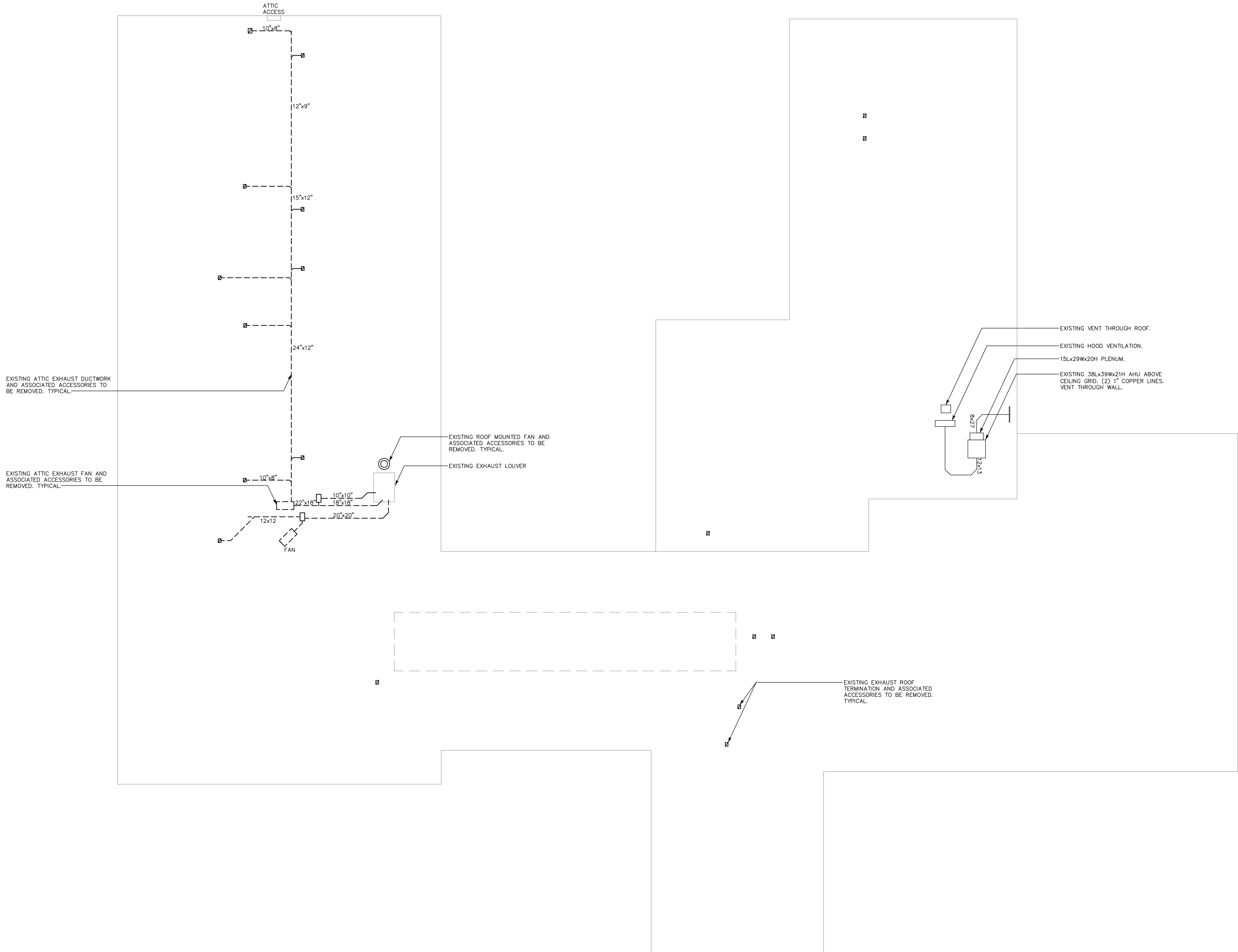
FIRST FLOOR AND ENLARGED BOILER ROOM MECHANICAL DEMOLITION PLANS

JOB NO.	3779.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	ST
DRAWN BY	ST
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

DRAWING NO.

DM-1



ATTIC MECHANICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"

REVISIONS		
REV.	DESCRIPTION	DATE

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DRAWING TITLE

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ENGINEER/DESIGNER	ST
DRAWN BY	ST
SCALE	AS NOTED
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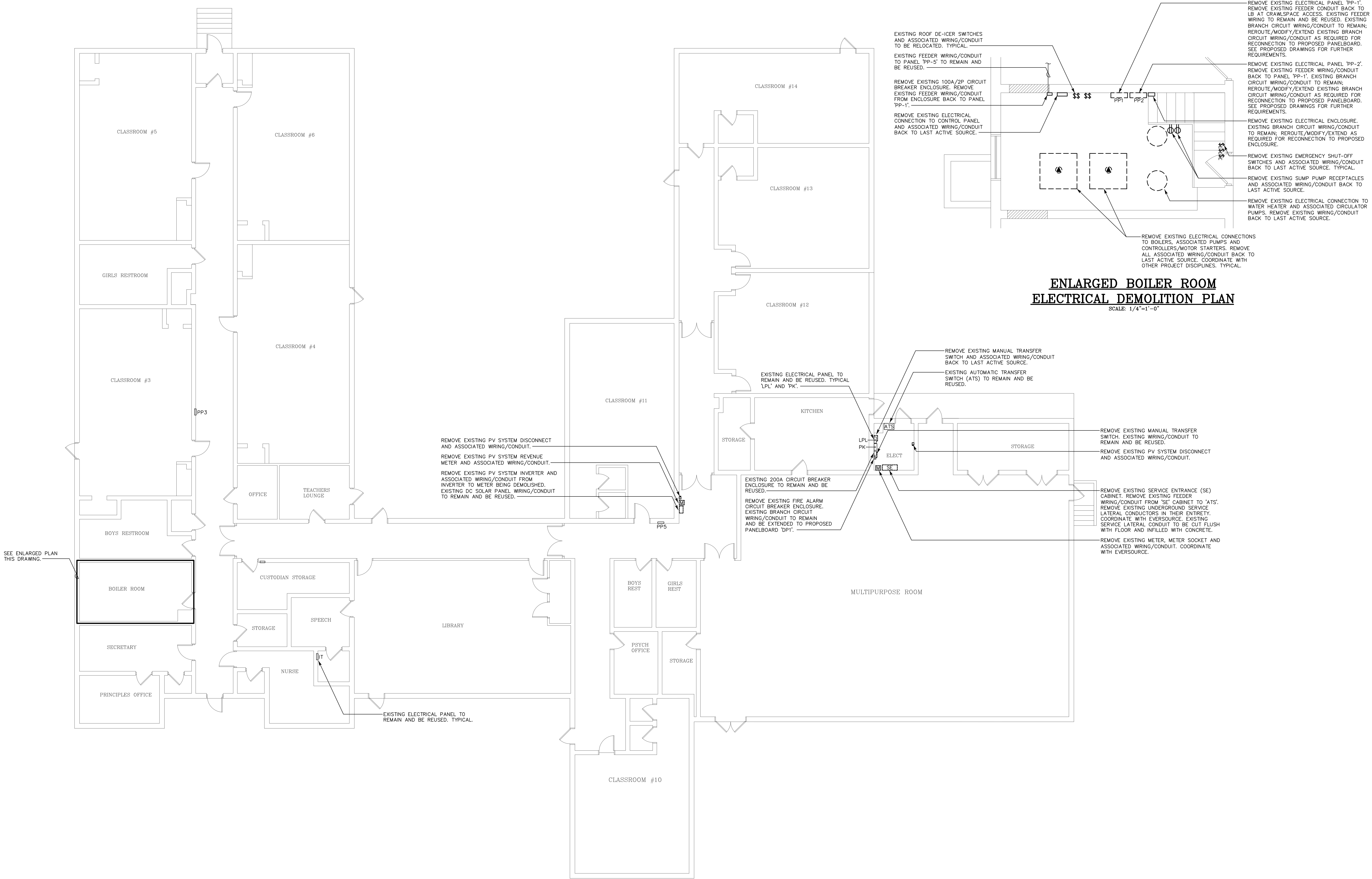
SEAL:

DRAWING NO.

DM-2

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

REVISIONS		
REV.	DESCRIPTION	DATE

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STATE PROJECT #
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COLEBROOK, CONNECTICUT

DRAWING TITLE

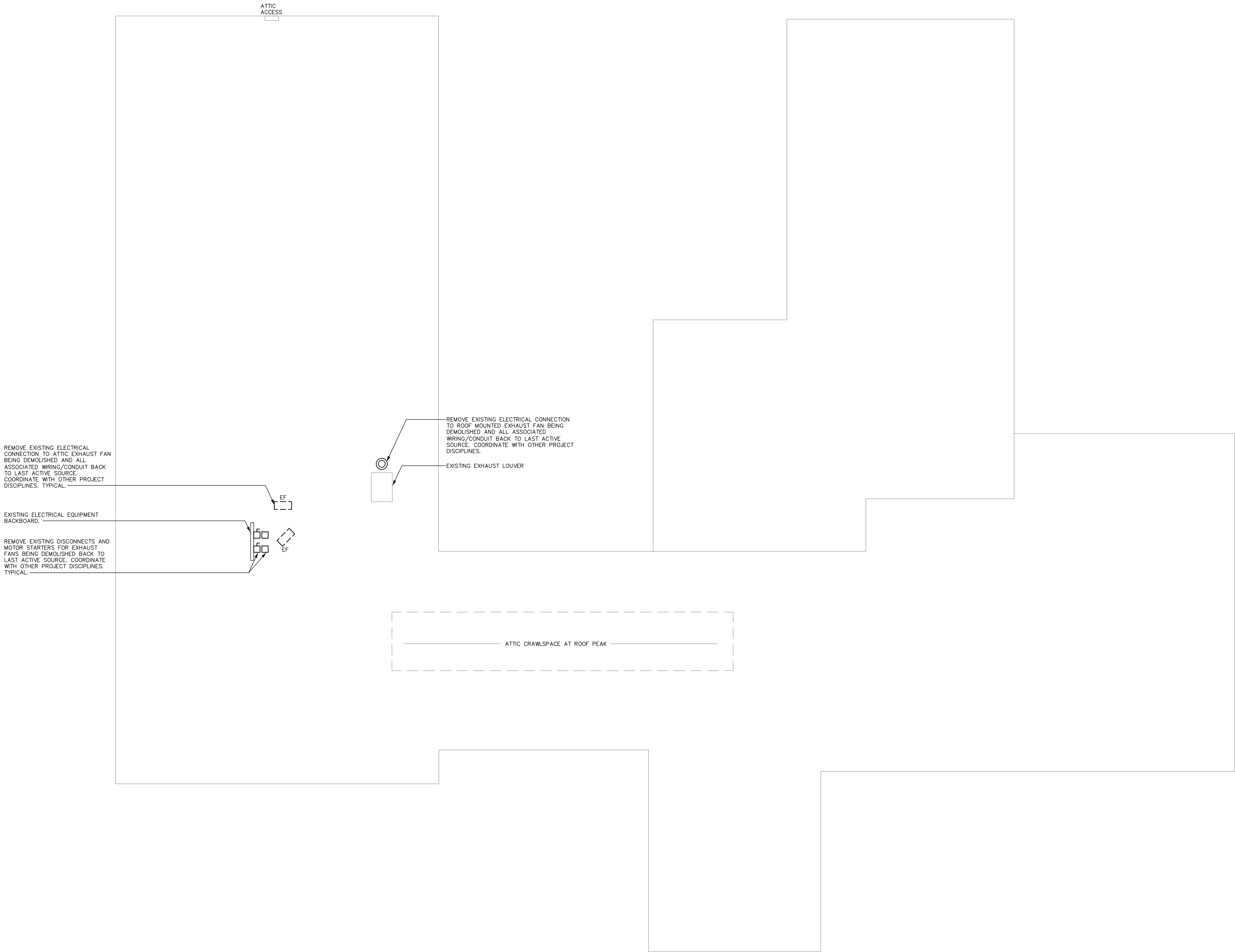
FIRST FLOOR AND ENLARGED BOILER ROOM ELECTRICAL DEMOLITION PLANS

JOB NO.	3779.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	FB
DRAWN BY	CK
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

DRAWING NO.

DE-1



ATTIC ELECTRICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"

REVISIONS		
REV.	DESCRIPTION	DATE

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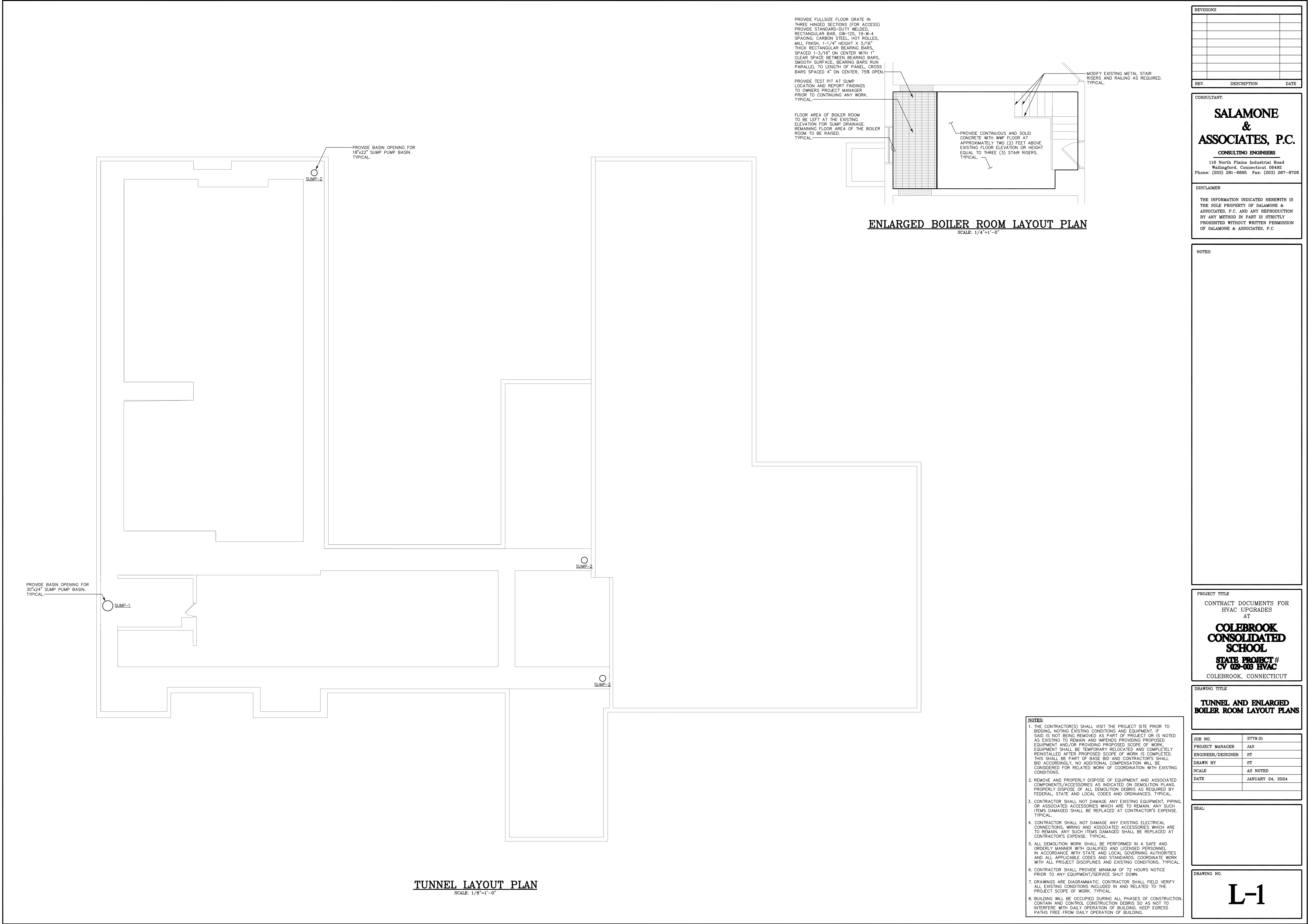
**ATTIC ELECTRICAL
DEMOLITION PLAN**

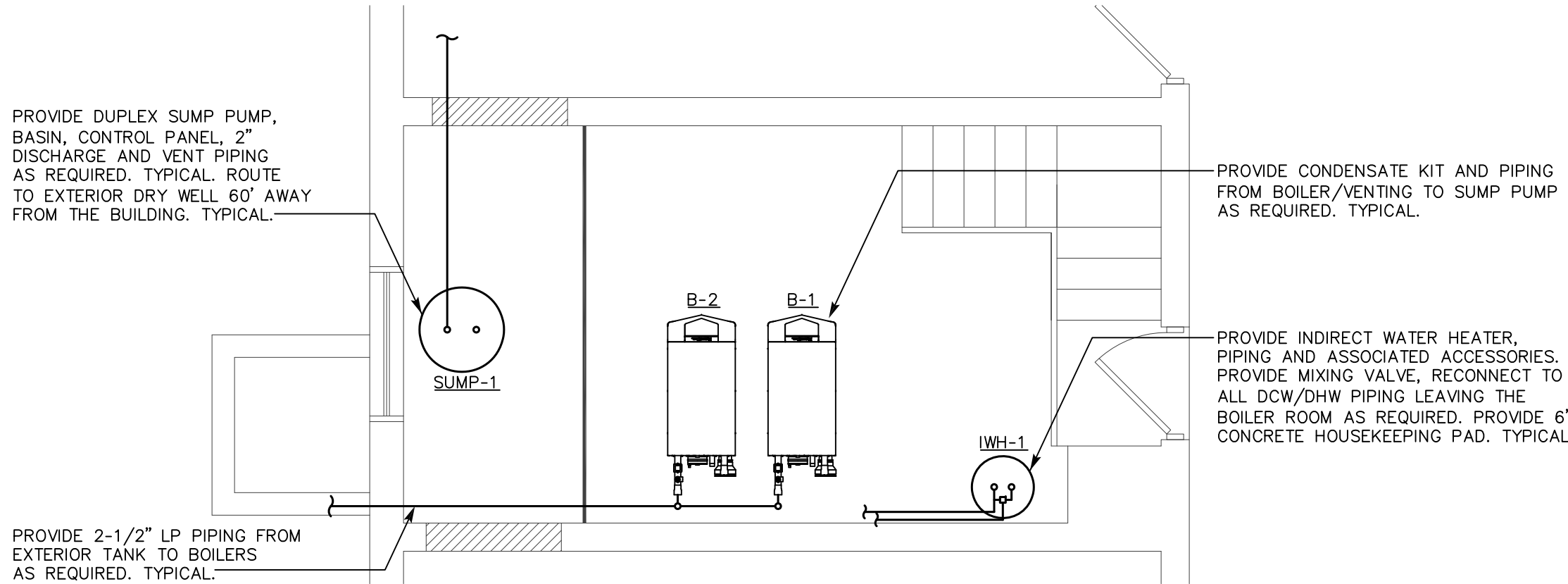
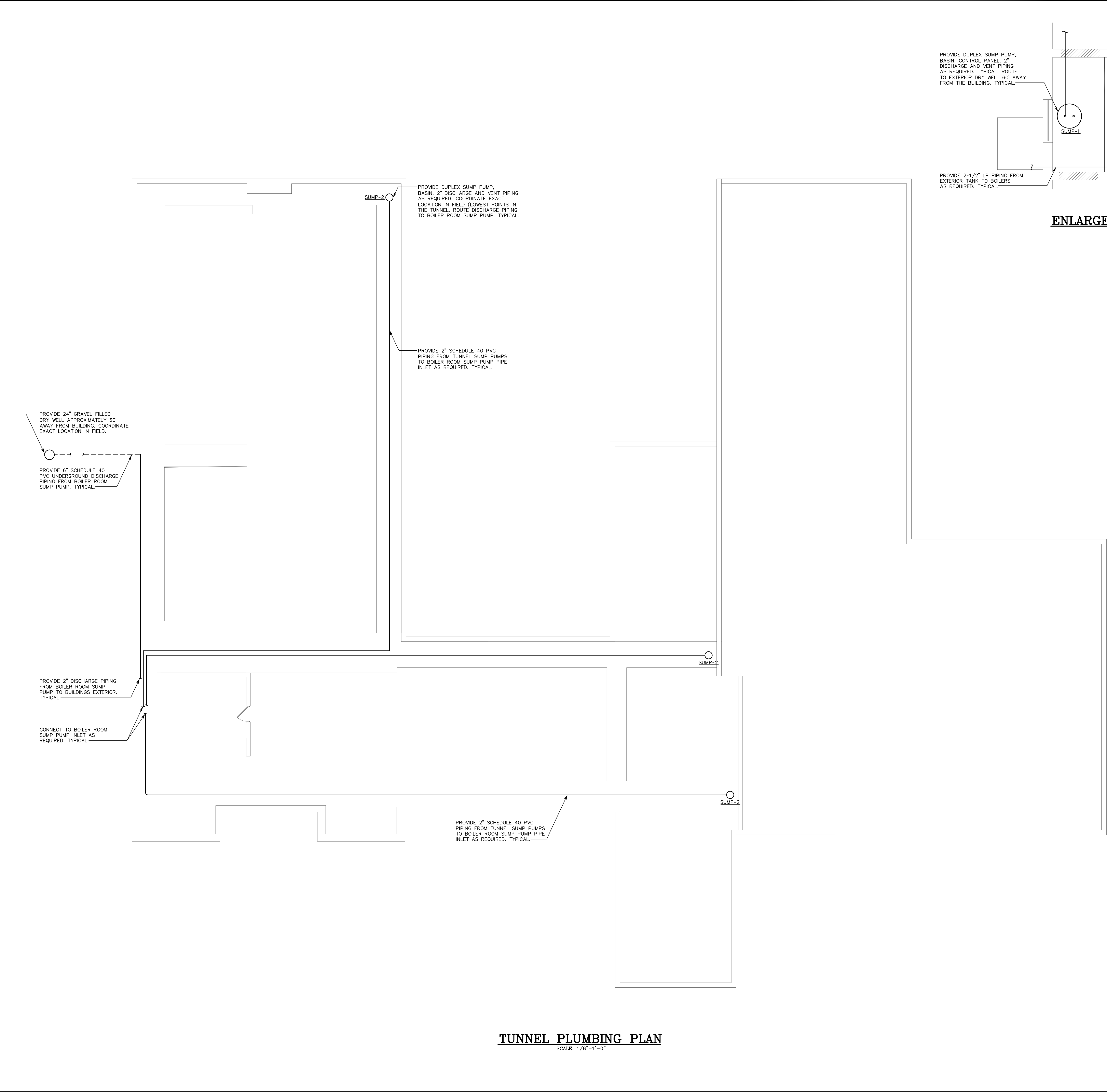
JOB NO.	3779.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	FB
DRAWN BY	CK
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

DRAWING NO.

DE-2





ENLARGED BOILER ROOM PLAN
SCALE: 1/4"=1'-0"

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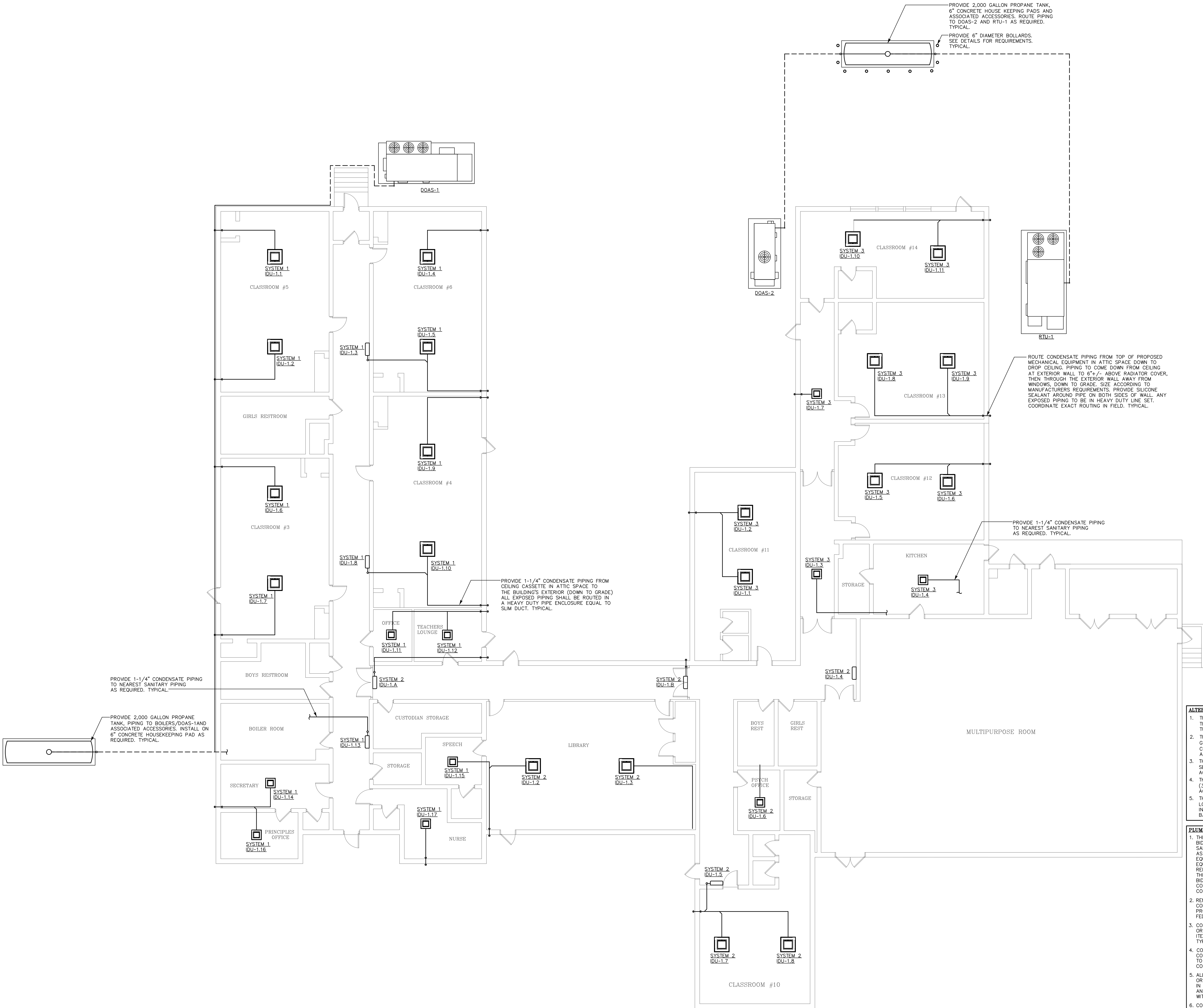
TUNNEL PLUMBING PLAN

JOB NO.	3779.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	ST
DRAWN BY	ST
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

DRAWING NO.

P-1



FIRST FLOOR PLUMBING PLAN

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

REVISIONS		
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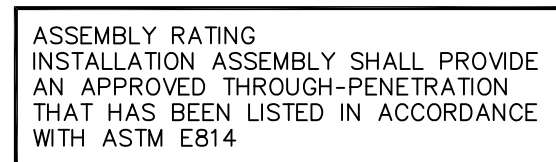
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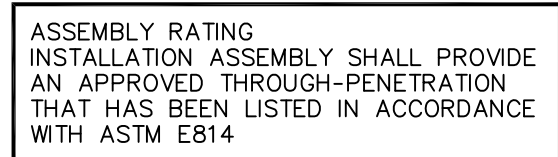
P-2

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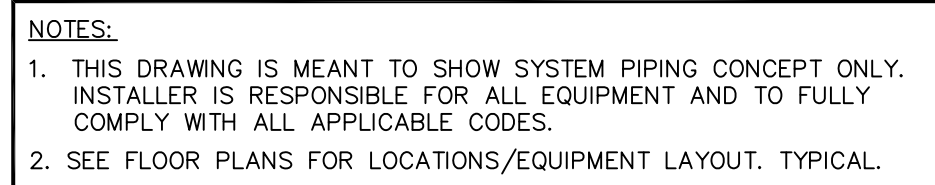
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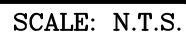
SCALE: N.T.S.



SCALE: N.T.S.



SCALE: N.T.S.



EXPANSION TANK SCHEDULE	
NUMBER	ET-1
LOCATION	BOILER ROOM
ASME	NO
ACCEPTANCE GALLONS	3.2
DESIGN BASED MODEL	PT-12
DESIGN BASED MANUFACTURER	BELL AND GOSSETT

NOTES:

1. SEE SCHEMATICS, DETAILS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND ALL APPLICABLE CODES.

PLUMBING ABBREVIATIONS	
C.O.	CLEANOUT
DCW	DOMESTIC COLD WATER SUPPLY
DHW	DOMESTIC HOT WATER SUPPLY
DN	DOWN
DWH	DOMESTIC WATER HEATER
ET	EXPANSION TANK
F.C.O.	FLOOR CLEANOUT
FD	FLOOR DRAIN
GM	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
JS	JANITOR'S SINK
LAV	LAVATORY
NFHW	NON-FREEZE WALL HYDRANT
LP	LIQUID PROPANE GAS
NTS	NOT TO SCALE
PRV	PRESSURE REDUCING VALVE
SAN	SANITARY
SK	SINK
TM	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
VTR	SANITARY VENT THROUGH ROOF
WC	WATER CLOSET

- NOTES BELOW ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
2. PROVIDE FUTURE SHUT-OFF VALVES AND P-TRAPS FOR ALL FIXTURES PROVIDING PLUMBING AND DOMESTIC WATER PIPING AS REQUIRED FOR ALL FIXTURES PROVIDED.
 3. REFER TO AND CAREFULLY CHECK ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND DETAILS, NOTING LOCATIONS WHERE WALLS, PARTITIONS, CEILING AND OTHER SURFACES ARE TURRED. LOCATION OF PIPE SLEEVES, LOCATIONS OF PIPE SHIFTS AND CONFLICTS WITH ALL OTHER TRADES, INCLUDING ELECTRICAL, MECHANICAL, ELECTRICAL OFFSETS, FITTINGS, VALVES, DRAINS, ETC. REQUIRED TO MEET SUCH CONDITIONS.
 4. DO NOT SCALE OF DRAWINGS. ALL REQUIREMENTS, FITTINGS, VALVES, DRAINS, ETC. TO BE TO THE RATING OF THE WALL.
 5. ALL PIPING PASSING THROUGH FIRE RATED WALLS SHALL BE PROVIDED WITH SCHEDULE 40 STEEL PIPE SLEEVES AND SPACE BETWEEN EXTERIOR OF PIPE AND INTERIOR OF PIPE SLEEVE PACKED WITH A FIRE RATED MATERIAL TO THE RATING OF THE WALL.
 6. UNLESS OTHERWISE INDICATED, PROVIDE A COMPLETE AND OPERATIONAL MECHANICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR AND EQUIPMENT.
 7. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE AND LOCAL GOVERNING CODES.
 8. THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT COMPLETELY."
 9. WHERE THE CONTRACTOR PROPOSES TO USE AN ITEM OF EQUIPMENT OTHER THAN THAT SPECIFIED OR DETAILED ON THE DRAWINGS WHICH REQUIRES ANY REDESIGN OF THE STRUCTURE, PARTITIONS, FOUNDATIONS, PARTITIONS, CEILING AND/OR MECHANICAL AND ELECTRICAL OR DETAILING REQUIRED, ALL SUCH REDESIGN AND ALL NEW DRAWINGS AND ARCHITECTURAL LAIOUT SHALL BE PREPARED AT THE CONTRACTOR'S EXPENSE AND BE SUBJECT TO THE REVIEW AND APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. HIS OWNER RESERVES THE RIGHT TO HAVE THE ARCHITECT OR ENGINEER OF HIS CHOICE PREPARE ANY SUCH WORK.
 10. ALL WORK SHALL BE DONE WITH LICENSED WORKSMAN IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
 11. CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR PIPE SLOPE AND ANCHORAGE.
 12. BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS, INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
 13. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST A. INTERNATIONAL AND STATE BUILDING CODE B. CONNECTICUT SUPPLEMENT C. INTERNATIONAL AND STATE MECHANICAL CODE D. ASTM & ANSI STANDARDS E. INTERNATIONAL AND STATE PLUMBING CODE F. FIRE SAFETY CODE
 14. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND PAYMENT FOR ALL UTILITIES DAMAGED DURING CONSTRUCTION.
 15. CONTRACTOR TO CONFIRM PIPE LOCATIONS, ELEVATIONS, AND SIZES BEFORE ANY WORK IS STARTED. ANY DISCREPANCIES ARE FOUND NOTIFY ENGINEER BEFORE PROCEEDING WITH WORK.
 16. IMMEDIATE WATER SERVICE SHUT OFF VALVES ON WATER SUPPLY IMMEDIATELY ADJACENT TO PLUMBING FIXTURES.
 17. PROVIDE SEISMIC BRACING OF ALL PLUMBING PIPES PER THE CONNECTICUT BUILDING CODE.
 18. PROVIDE WATER HAMMER ARRESTERS FOR ALL FLUSH VALVES, SIZE AND LOCATE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 19. FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION OF PROVIDED EQUIPMENT.
 20. ALL PIPES THAT PENETRATE WALLS, FLOORS AND CEILINGS IN FINISHED AREAS SHALL BE FINISHED TO MATCH THE FINISH MATERIAL, EDITIONS.
 21. ALL SHOP DRAWINGS OF INDIVIDUAL COMPONENTS ARE TO BE SUBMITTED AS A COMPLETE PACKAGE.
 22. ALL SHOP DRAWINGS OF RELATED COMPONENTS SHALL BE SUBMITTED AS A COMPLETE PACKAGE.
 23. ALL WORK IN INTERIOR FINISHED SPACES IS TO BE CONCEALED BEHIND WALLS, PARTITIONS, CEILING AND/OR FLOOR. PROVIDE ALL NECESSARY CUTTING, PATCHING, REPAIRING AND/OR REPLACEMENT OF FINISHES AS REQUIRED BY THE CONTRACTOR.
 24. WRITTEN REQUESTS FOR PLANNED SHUTDOWN OR INTERRUPTION OF BUILDING SERVICES, SYSTEMS OR EQUIPMENT SHALL BE MADE IN WRITING 72 HOURS PRIOR TO START OF THE REQUESTED SHUTDOWN PERIOD.
 25. SUPPORT PIPING ABOVE SUSPENDED CEILING, FROM CONSTRUCTION ABOVE, AS CLUTTERED AS POSSIBLE. PROVIDE PROTECTION OF SLABS, BEAMS, MAINTAINING MAXIMUM HEADROOM AT ALL TIMES.
 26. PROVIDE CLEANOUTS PER PLUMBING CODE.
 27. ISLE AND CORRIDOR WORK THROUGH CONSTRUCTION AREAS WHICH ARE REQUIRED FOR EGRESS (NORMAL OR EMERGENCY) SHALL BE KEPT CLEAR OF ALL MATERIALS, EQUIPMENT AND DEBRIS.
 28. ALL WORK SHALL BE LICENSED WORKSMAN IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.

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NOTES:

PROJECT TITLE

CONTRACT DOCUMENTS FOR
HVAC UPGRADES
AT
**COLEBROOK
CONSOLIDATED
SCHOOL**
STATE PROJECT #
CV 029-003 HVAC
COLEBROOK, CONNECTICUT

DRAWING TITLE

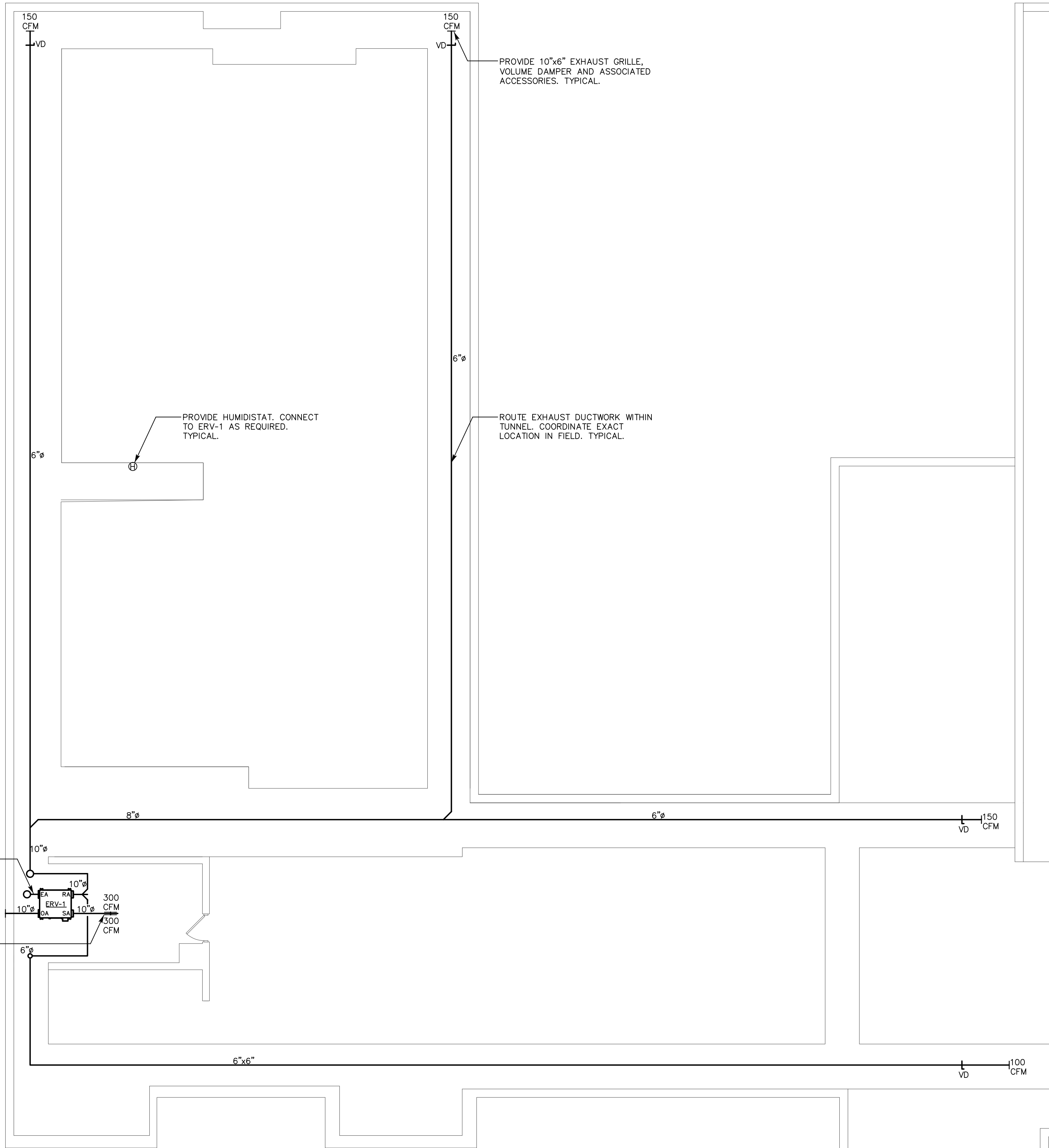
**PLUMBING SCHEDULES,
DETAILS, NOTES, SYMBOLS
AND ABBREVIATIONS**

SEAL:

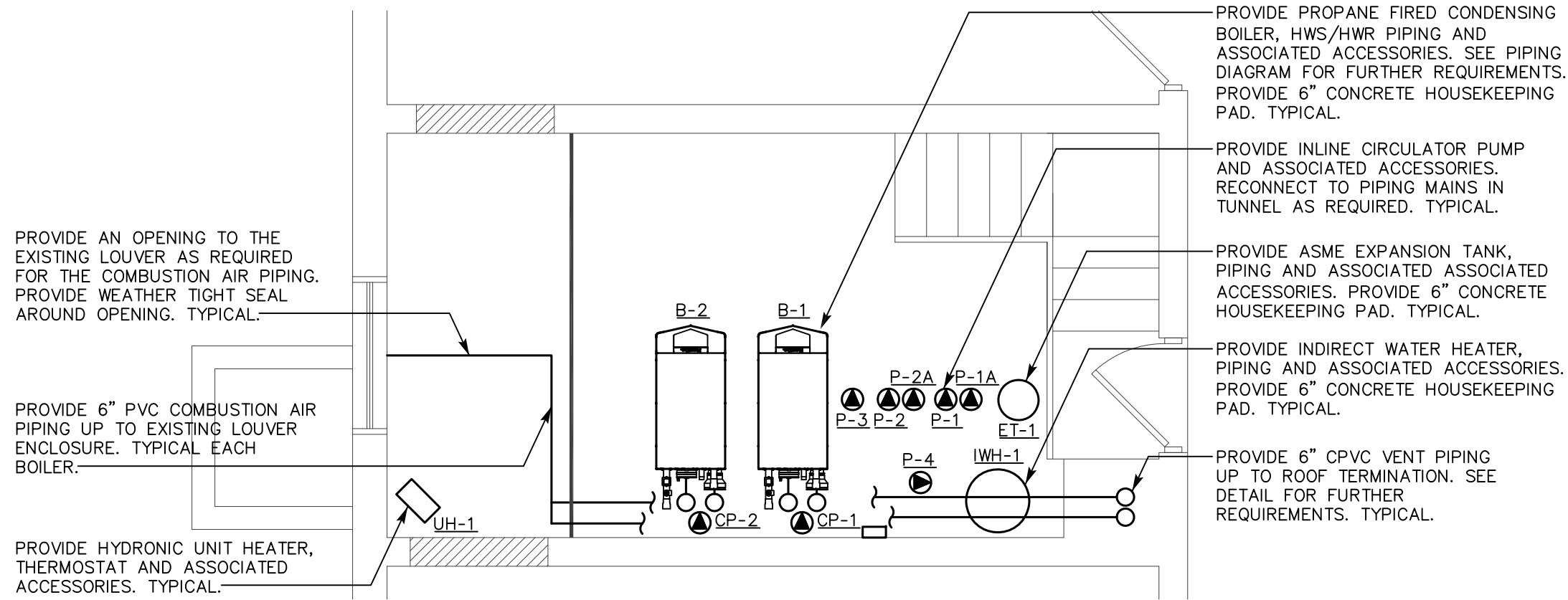
DRAWING NO.

P-3

- ALTERNATE/ALLOWANCE NOTES:**
1. THE PROJECT SHALL INCLUDE A \$20,000.00 ALLOWANCE FOR THE EXISTING HYDRONIC PIPING/SYSTEM REPAIRS WITHIN THE BUILDING.
 2. THE PROJECT SHALL INCLUDE DEDUCT ALTERNATE #1 FOR THE GYM'S RTU-1, ASSOCIATED DUCTWORK, DIFFUSERS/GRILLES, CONTROLS, CEILING MOUNTED FANS (FAN-1/FAN-2) AND ASSOCIATED ACCESSORIES. TYPICAL.
 3. THE PROJECT SHALL INCLUDE ALTERNATE #1 FOR THE SECOND BOILER (B-2) VENTING, PIPING, PUMP AND ASSOCIATED ACCESSORIES. TYPICAL.
 4. THE PROJECT SHALL INCLUDE ALTERNATE #2 FOR THREE (3) SUMMER PUMPS (SUM-P), PIPING AND ASSOCIATED ACCESSORIES LOCATED IN TUNNEL. TYPICAL.
 5. THE PROJECT SHALL INCLUDE ALTERNATE #3 FOR LOCATING TWO (2) PROPANE TANKS UNDERGROUND. INCLUDING BUT NOT LIMITED TO: ODEMAN, ANCHORING, GRADE, DRAINING, VENTING, ETC.



TUNNEL MECHANICAL PLAN
SCALE: 1/8"=1'-0"



ENLARGED BOILER ROOM PLAN
SCALE: 1/4"=1'-0"

- ALTERNATE/ALLOWANCE NOTES:**
1. THE PROJECT SHALL INCLUDE A \$20,000.00 ALLOWANCE FOR THE EXISTING HYDRONIC PIPING/SYSTEM REPAIRS WITHIN THE TUNNELS AND ATTIC.
 2. THE PROJECT SHALL INCLUDE DEDUCT ALTERNATE #1 FOR THE GYM'S RTU-1, ASSOCIATED DUCTWORK, DIFFUSERS/GRILLES, CONTROLS, CEILING MOUNTED FANS (FAN-1/FAN-2) AND ASSOCIATED ACCESSORIES. TYPICAL.
 3. THE PROJECT SHALL INCLUDE ADD ALTERNATE #1 FOR THE SECOND BOILER (B-2) VENTING, PIPING, PUMP AND ASSOCIATED ACCESSORIES. TYPICAL.
 4. THE PROJECT SHALL INCLUDE ADD ALTERNATE #2 FOR THREE (3) SUMP PUMPS (SUMP-2) PIPING AND ASSOCIATED ACCESSORIES LOCATED IN TUNNELS. TYPICAL.
 5. THE PROJECT SHALL INCLUDE ADD ALTERNATE #3 FOR LOCATING THE TWO (2) PROPANE TANKS UNDERGROUND, INCLUDING BUT NO LIMITED TO: DEADMEN, ANCHORING BACKFILL, RE-GRADING, TURF RESTORATION, ETC.

- MECHANICAL NOTES:**
1. THE CONTRACTOR(S) SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING, NOTING EXISTING CONDITIONS AND EQUIPMENT. IF SAID IS NOT BEING REMOVED AS PART OF PROJECT OR IS NOTED AS EXISTING TO REMAIN AND IMPENDS PROVIDING PROPOSED EQUIPMENT AND/OR PROVIDING PROPOSED SCOPE OF WORK, EQUIPMENT SHALL BE TEMPORARILY RELOCATED AND COMPLETELY REINSTALLED AFTER PROPOSED SCOPE OF WORK IS COMPLETED. THIS SHALL BE PART OF BASE BID AND CONTRACTORS SHALL BID ACCORDINGLY. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR RELATED WORK OF COORDINATION WITH EXISTING CONDITIONS.
 2. REMOVE AND PROPERLY DISPOSE OF EQUIPMENT AND ASSOCIATED COMPONENTS/ACCESSORIES AS INDICATED ON DEMOLITION PLANS. PROPERLY DISPOSE OF ALL DEMOLITION DEBRIS AS REQUIRED BY FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. TYPICAL.
 3. CONTRACTOR SHALL NOT DAMAGE ANY EXISTING EQUIPMENT, PIPING, OR ASSOCIATED ACCESSORIES WHICH ARE TO REMAIN. ANY SUCH ITEMS DAMAGED SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. TYPICAL.
 4. CONTRACTOR SHALL NOT DAMAGE ANY EXISTING ELECTRICAL CONNECTIONS, WIRING AND ASSOCIATED ACCESSORIES WHICH ARE TO REMAIN. ANY SUCH ITEMS DAMAGED SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. TYPICAL.
 5. ALL DEMOLITION WORK SHALL BE PERFORMED IN A SAFE AND ORDERLY MANNER WITH QUALIFIED AND LICENSED PERSONNEL IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES AND ALL APPLICABLE CODES AND STANDARDS. COORDINATE WORK WITH ALL PROJECT DISCIPLINES AND EXISTING CONDITIONS. TYPICAL.
 6. CONTRACTOR SHALL PROVIDE MINIMUM OF 72 HOURS NOTICE PRIOR TO ANY EQUIPMENT/SERVICE SHUT DOWN.
 7. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDED IN AND RELATED TO THE PROJECT SCOPE OF WORK. TYPICAL.
 8. BUILDING WILL BE OCCUPIED DURING ALL PHASES OF CONSTRUCTION. CONTAIN AND CONTROL CONSTRUCTION DEBRIS SO AS NOT TO INTERFERE WITH DAILY OPERATION OF BUILDING. KEEP EGRESS PATHS FREE FROM DAILY OPERATION OF BUILDING.

REVISIONS		
REV.	DESCRIPTION	DATE

CONSULTANT:
SALAMONE & ASSOCIATES, P.C.
CONSULTING ENGINEERS
116 North Plains Industrial Road
Wallingford, Connecticut 06492
Phone: (203) 281-6895 Fax: (203) 287-8728

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NOTES:

PROJECT TITLE
CONTRACT DOCUMENTS FOR
HVAC UPGRADES
AT
COLEBROOK CONSOLIDATED SCHOOL
STATE PROJECT #
CV 029-008 HVAC
COLEBROOK, CONNECTICUT

DRAWING TITLE
**TUNNEL AND ENLARGED
BOILER ROOM MECHANICAL
PLANS**

JOB NO.	3779-01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	ST
DRAWN BY	ST
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

DRAWING NO.
M-1

PROVIDE REFRIGERATION PIPING UP TO ATTIC. CONNECT TO HEAT RECOVERY BRANCH CIRCUIT CONTROLLERS AS REQUIRED. SEE PIPING DIAGRAMS FOR FURTHER REQUIREMENTS. TYPICAL.

PROVIDE CEILING MOUNTED DUCTLESS CASSETTE UNIT/REFRIGERANT PIPING AND ASSOCIATED ACCESSORIES. PROVIDE SHEET METAL TOP ENCLOSURE FOR TOP OF UNIT WITHIN ATTIC SPACE. ENCLOSURES SHALL BE FULL SIZE AND PROTECT TOP OF UNIT FROM ATTIC INSULATION. TYPICAL. ALL CEILING MOUNTED CASSETTE UNITS.

PROVIDE RETURN AIR GRILLE AND ASSOCIATED ACCESSORIES. TYPICAL.

PROVIDE CEILING MOUNTED EXHAUST FAN. DUCTWORK UP TO ROOF TERMINATION AND ASSOCIATED ACCESSORIES. TYPICAL.

PROVIDE SUPPLY AIR DIFFUSER AND ASSOCIATED ACCESSORIES. TYPICAL.

PROVIDE VRF THERMOSTAT AND ASSOCIATED ACCESSORIES. TYPICAL.

SEE ENLARGED PLAN FOR FURTHER REQUIREMENTS. TYPICAL.

RE-GRADE AREA AND MAKE LEVEL AS REQUIRED FOR GRADE MOUNTED UNITS. TYPICAL.

PROVIDE 24"x16" SUPPLY/RETURN AIR DUCTWORK FROM DOAS-1. ROUTE INTO ATTIC ADJACENT TO EXISTING CAT WALK. EXTERNALLY INSULATE AND PROVIDE JACKETING SYSTEM EQUAL TO VENTURE CLAD. TYPICAL.

PROVIDE GRADE MOUNTED DEDICATED OUTSIDE AIR UNIT WITH PROPANE FURNACE, 6" CONCRETE HOUSEKEEPING PAD, DUCTWORK AND ASSOCIATED ACCESSORIES. TYPICAL.

PROVIDE 20"x12" SUPPLY/RETURN AIR DUCTWORK FROM DOAS-2. ROUTE INTO SPACE ABOVE CEILING. EXTERNALLY INSULATE AND PROVIDE JACKETING SYSTEM EQUAL TO VENTURE CLAD. TYPICAL.

PROVIDE STAND MOUNTED HEAT PUMP UNIT, REFRIGERATION PIPING AND ASSOCIATED ACCESSORIES. ROUTE PIPING BELOW THE UNIT (SHOWN IN FRONT OF UNIT FOR CLARITY). PROVIDE 6" CONCRETE HOUSEKEEPING PAD. TYPICAL.

PROVIDE REFRIGERATION PIPING UP TO ATTIC. CONNECT TO HEAT RECOVERY BRANCH CIRCUIT CONTROLLERS AS REQUIRED. SEE PIPING DIAGRAMS FOR FURTHER REQUIREMENTS. TYPICAL.

PROVIDE 40"x24" SUPPLY/RETURN AIR DUCTWORK FROM RTU-1. ROUTE INTO SPACE ABOVE CEILING. TYPICAL.

PROVIDE GRADE MOUNTED PACKAGED ROOFTOP UNIT WITH PROPANE FURNACE, DUCTWORK AND ASSOCIATED ACCESSORIES. TYPICAL.

PROVIDE 32"x12" EXTRUDED ALUMINUM SPIRAL DUCT RETURN GRILLE AND ASSOCIATED ACCESSORIES. BALANCE TO AIRFLOW SHOWN. TYPICAL.

PROVIDE EXTRUDED ALUMINUM SPIRAL SUPPLY GRILLE DUCT WITH AIR SCOOP AND ASSOCIATED ACCESSORIES. BALANCE TO AIRFLOW SHOWN. TYPICAL.

PROVIDE BEAM MOUNTED DISTRATIFICATION FANS AND ASSOCIATED ACCESSORIES. PROVIDE WIRED CONTROLLER FOR EACH FAN. TYPICAL.

ALTERNATE/ALLOWANCE NOTES:

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2. THE PROJECT SHALL INCLUDE DEDUCT ALTERNATE #1 FOR THE GYM'S RTU-1, ASSOCIATED DUCTWORK, DIFFUSERS/GRILLES, CONTROLS, CEILING MOUNTED FANS (FAN-1/FAN-2) AND ASSOCIATED ACCESSORIES. TYPICAL.
3. THE PROJECT SHALL INCLUDE ADD ALTERNATE #1 FOR THE SECOND BOILER (B-2) VENTING, PIPING, PUMP AND ASSOCIATED ACCESSORIES. TYPICAL.
4. THE PROJECT SHALL INCLUDE ADD ALTERNATE #2 FOR THREE (3) SUMP PUMPS (SUMP-2) PIPING AND ASSOCIATED ACCESSORIES LOCATED IN TUNNELS. TYPICAL.
5. THE PROJECT SHALL INCLUDE ADD ALTERNATE #3 FOR LOCATING THE TWO (2) PROPANE TANKS UNDERGROUND. INCLUDING BUT NO LIMITED TOO: DEADMEN, ANCHORING BACKFILL, RE-GRADEING, TURF RESTORATION, ETC.

MECHANICAL NOTES:

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MECHANICAL FIRST FLOOR PLAN

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

REVISIONS

REV.	DESCRIPTION	DATE

CONSULTANT:

SALAMONE & ASSOCIATES, P.C.

CONSULTING ENGINEERS
116 North Plains Industrial Road
Wallingford, Connecticut 06492
Phone: (203) 281-6895 Fax: (203) 287-8728

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NOTES:

PROJECT TITLE

CONTRACT DOCUMENTS FOR HVAC UPGRADES AT

COLEBROOK CONSOLIDATED SCHOOL

STATE PROJECT #
CV 02-008 HVAC
COLEBROOK, CONNECTICUT

DRAWING TITLE

FIRST FLOOR MECHANICAL PLAN

JOB NO. 3779.01

PROJECT MANAGER JAS

ENGINEER/DESIGNER ST

DRAWN BY ST

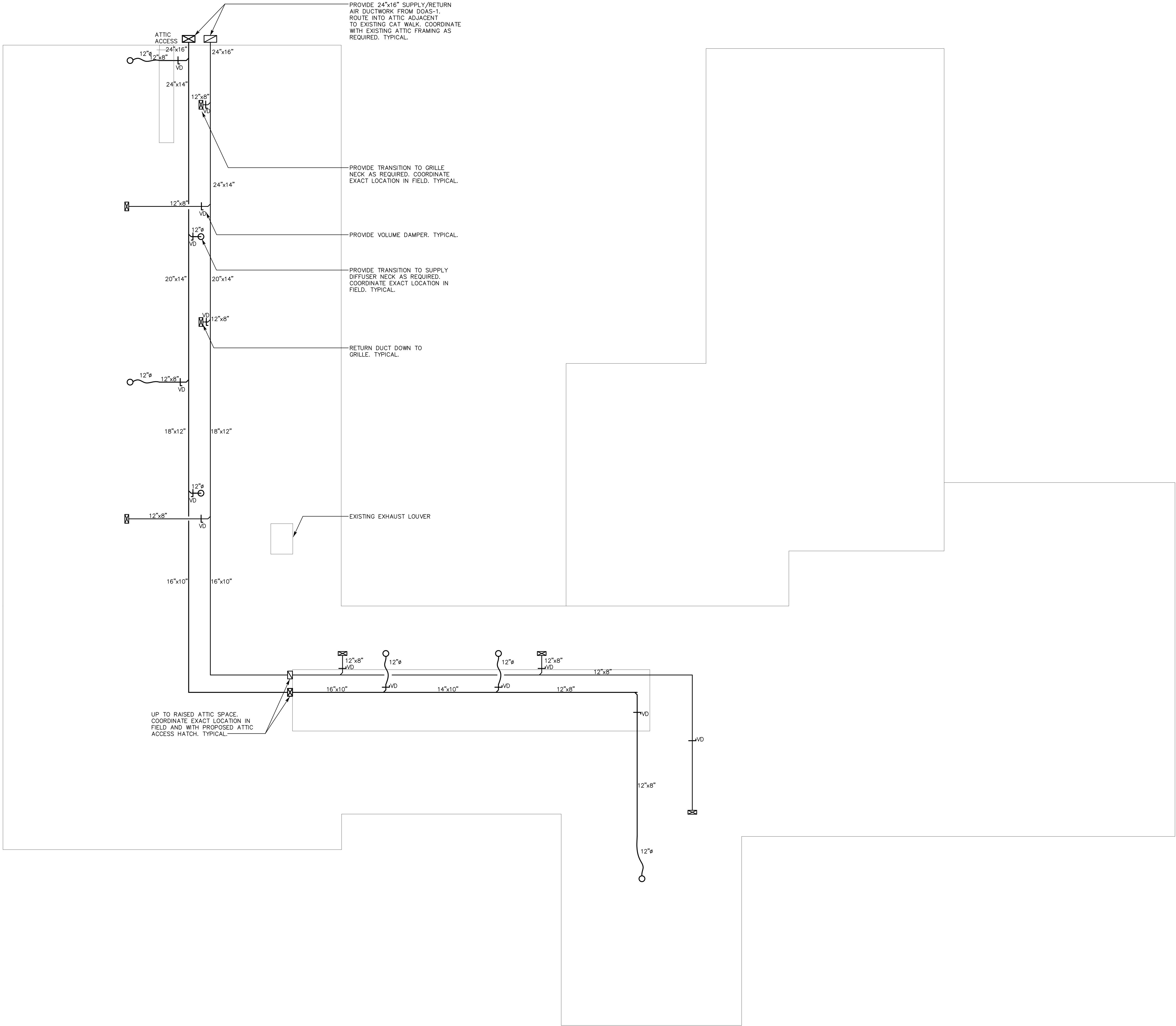
SCALE AS NOTED

DATE JANUARY 24, 2024

S&A:

DRAWING NO.

M-2



ATTIC MECHANICAL PLAN
SCALE: 1/8"=1'-0"

- ALTERNATE/ALLOWANCE NOTES:**
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REVISIONS		
REV.	DESCRIPTION	DATE

CONSULTANT:

SALAMONE & ASSOCIATES, P.C.

CONSULTING ENGINEERS

116 North Plains Industrial Road
Wallingford, Connecticut 06492
Phone: (203) 281-6895 Fax: (203) 287-8728

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NOTES:

PROJECT TITLE

CONTRACT DOCUMENTS FOR
HVAC UPGRADES
AT

COLEBROOK CONSOLIDATED SCHOOL

**STATE PROJECT #
CV 029-008 HVAC**

COLEBROOK, CONNECTICUT

DRAWING TITLE

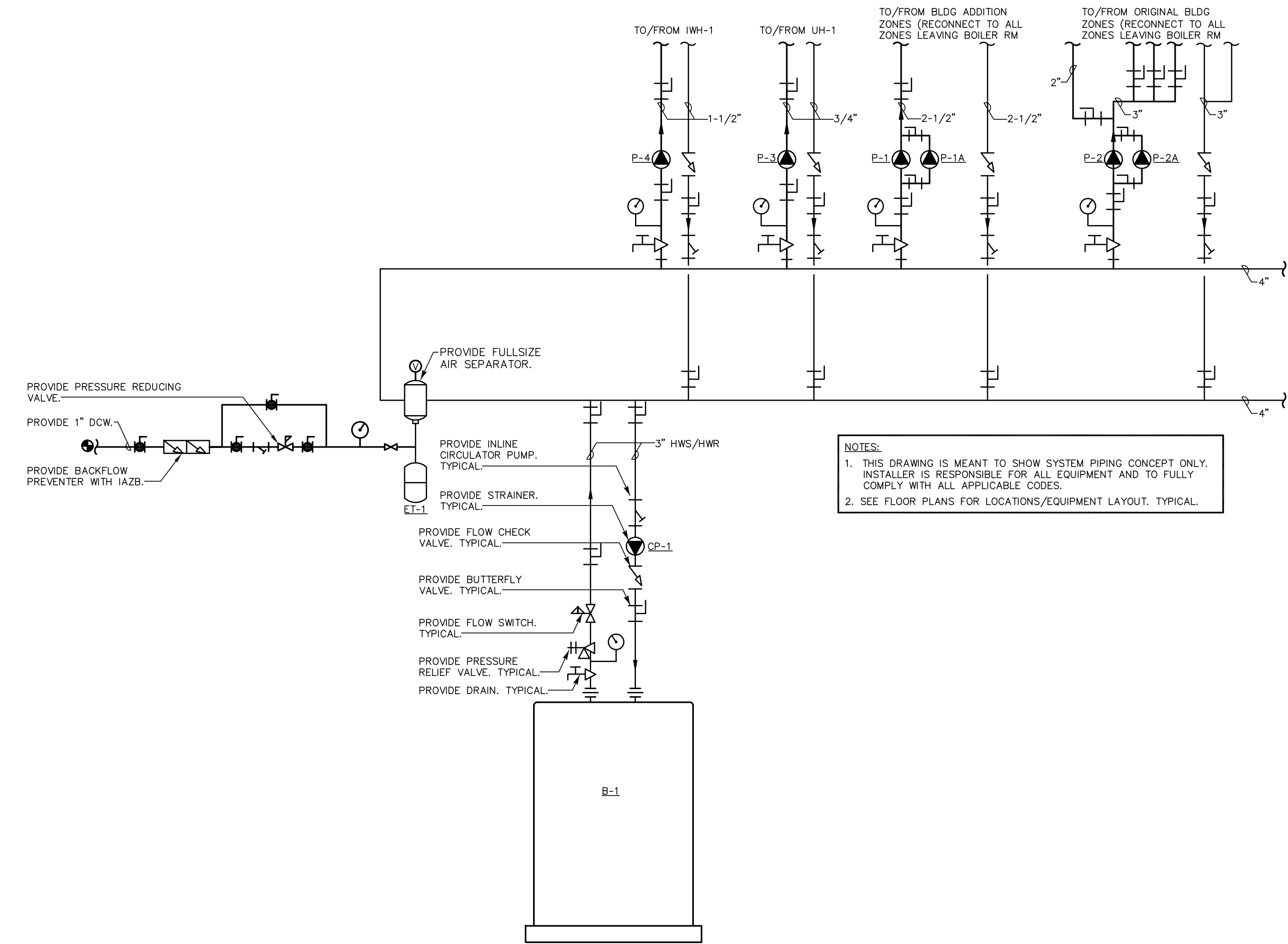
ATTIC MECHANICAL PLAN

JOB NO.	3779.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	ST
DRAWN BY	ST
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

DRAWING NO.

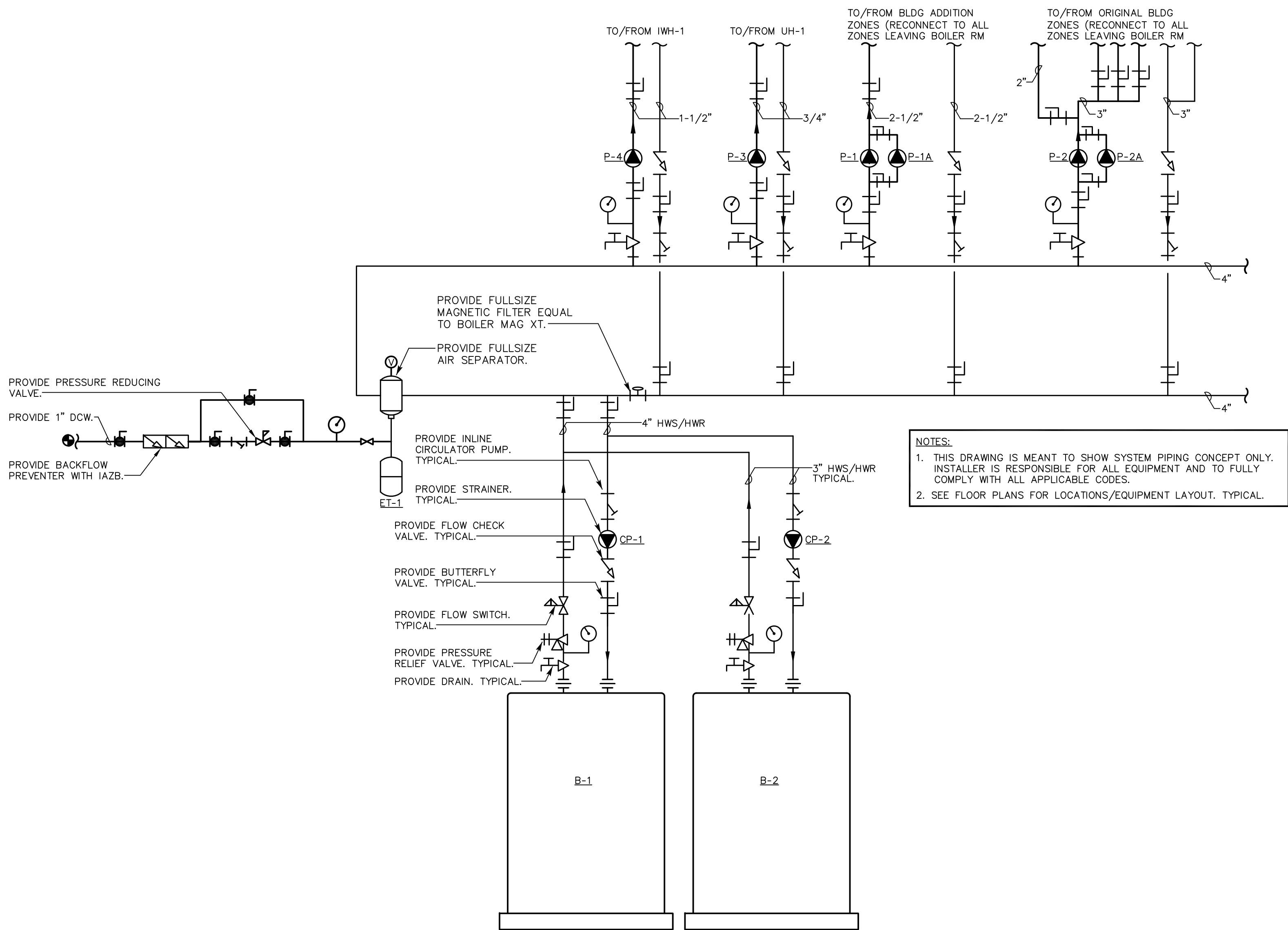
M-3



HYDRONIC SYSTEM PIPING SCHEMATIC

SCALE: N.T.S.

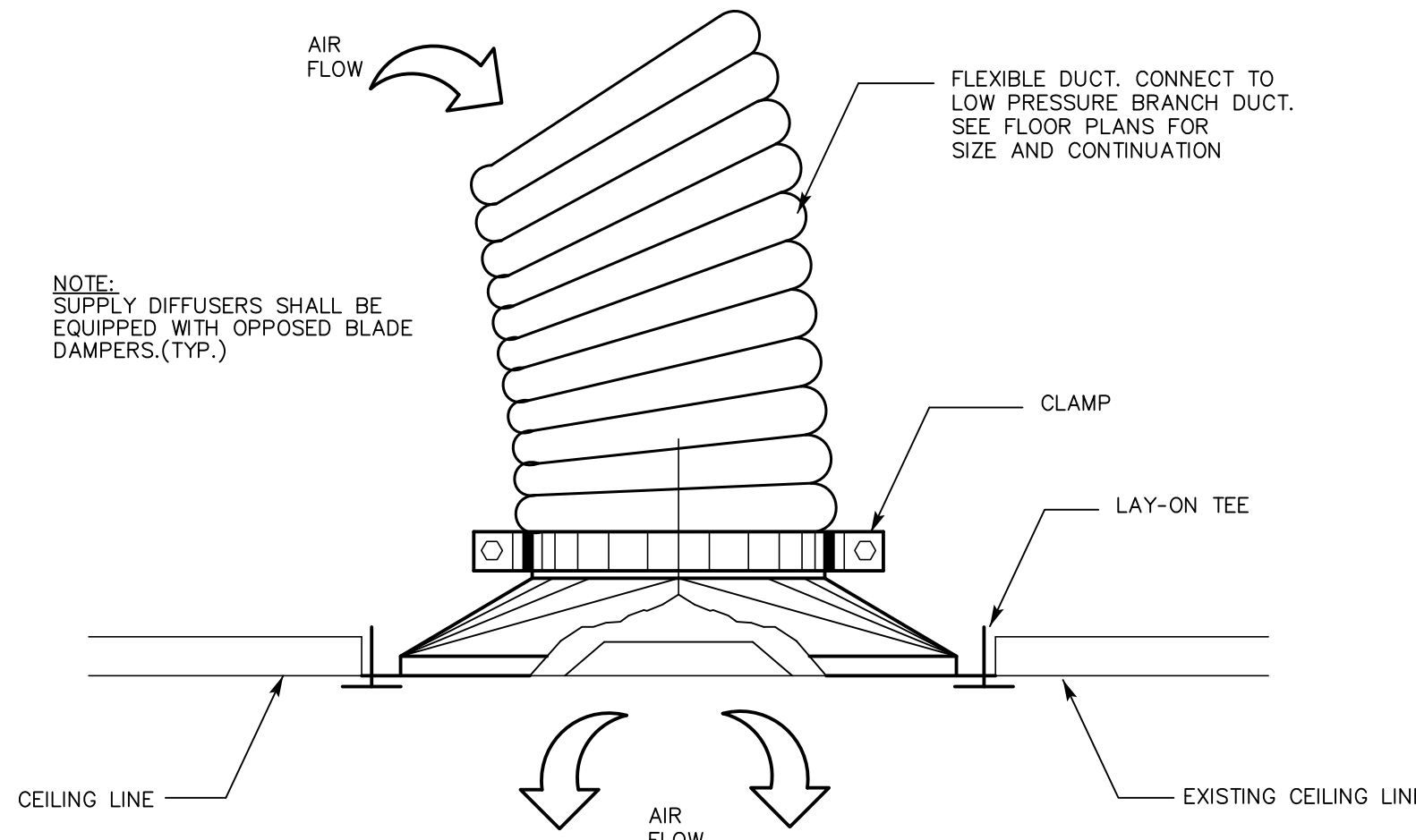
- NOTES:
1. THIS DRAWING IS MEANT TO SHOW SYSTEM PIPING CONCEPT ONLY. INSTALLER IS RESPONSIBLE FOR ALL EQUIPMENT AND TO FULLY COMPLY WITH ALL APPLICABLE CODES.
 2. SEE FLOOR PLANS FOR LOCATIONS/EQUIPMENT LAYOUT. TYPICAL.



HYDRONIC SYSTEM PIPING SCHEMATIC
ADD ALTERNATE #1

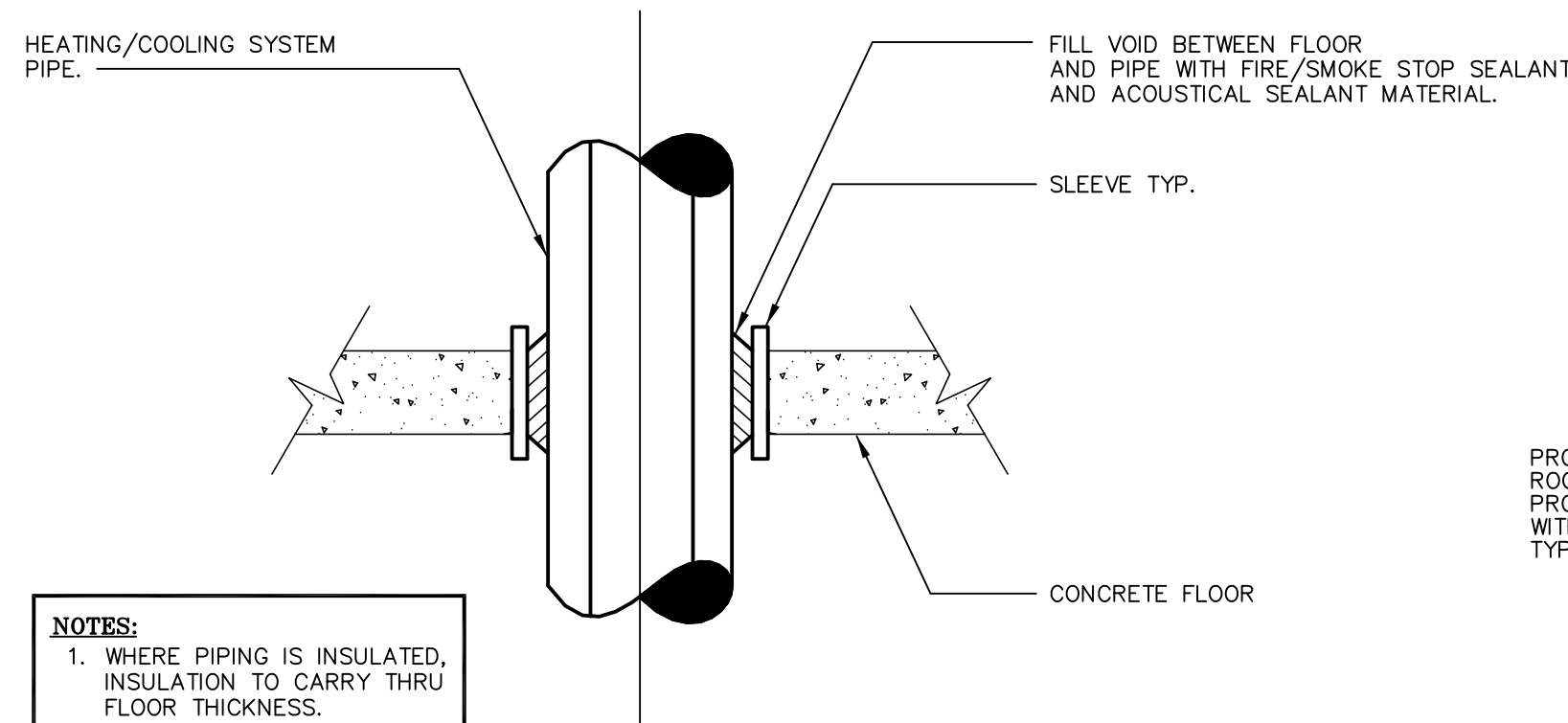
SCALE: N.T.S.

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 2. SEE FLOOR PLANS FOR LOCATIONS/EQUIPMENT LAYOUT. TYPICAL.



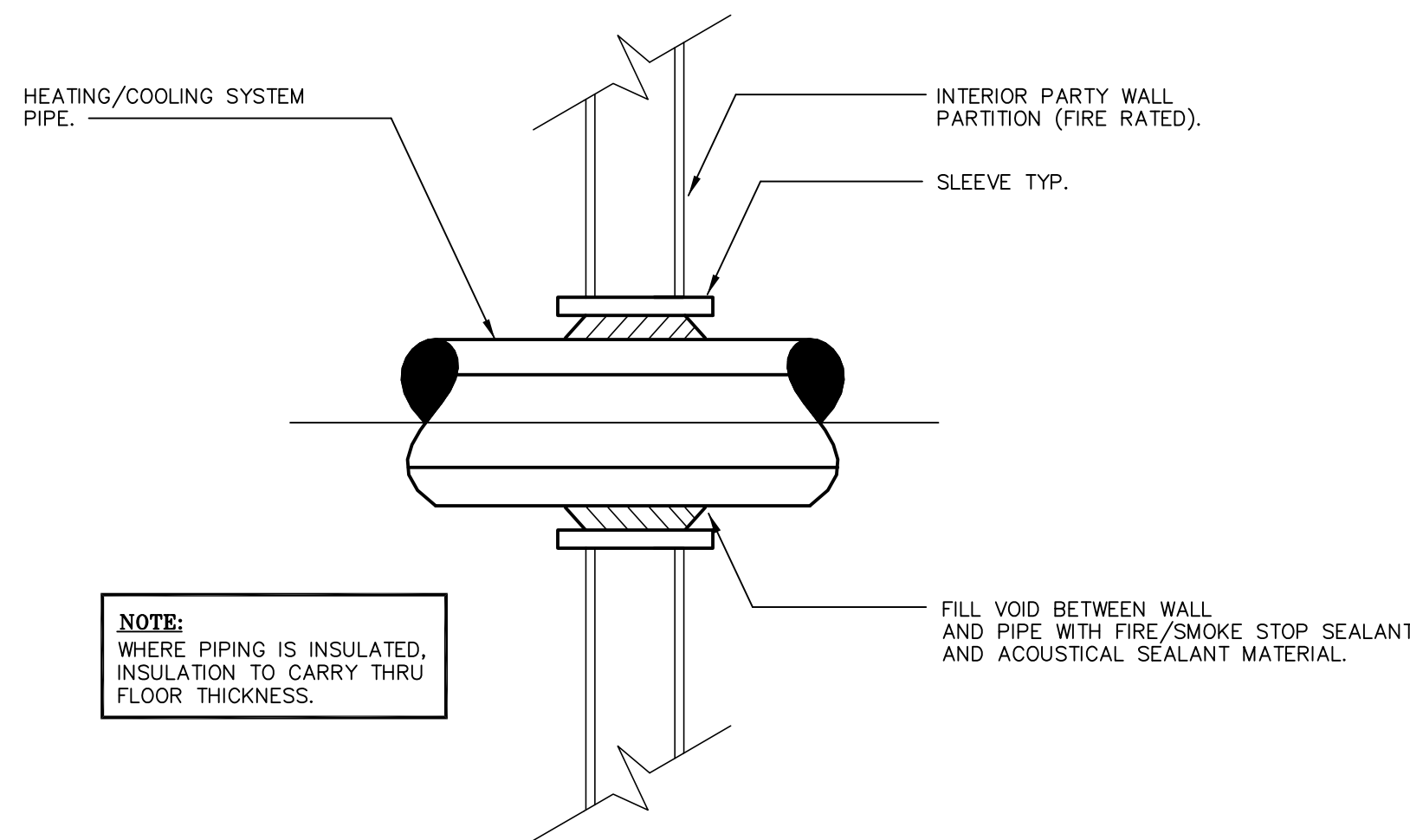
TYPICAL SQUARE DIFFUSER DETAIL
SQUARE RETURN GRILLE SIMILAR

SCALE: N.T.S.



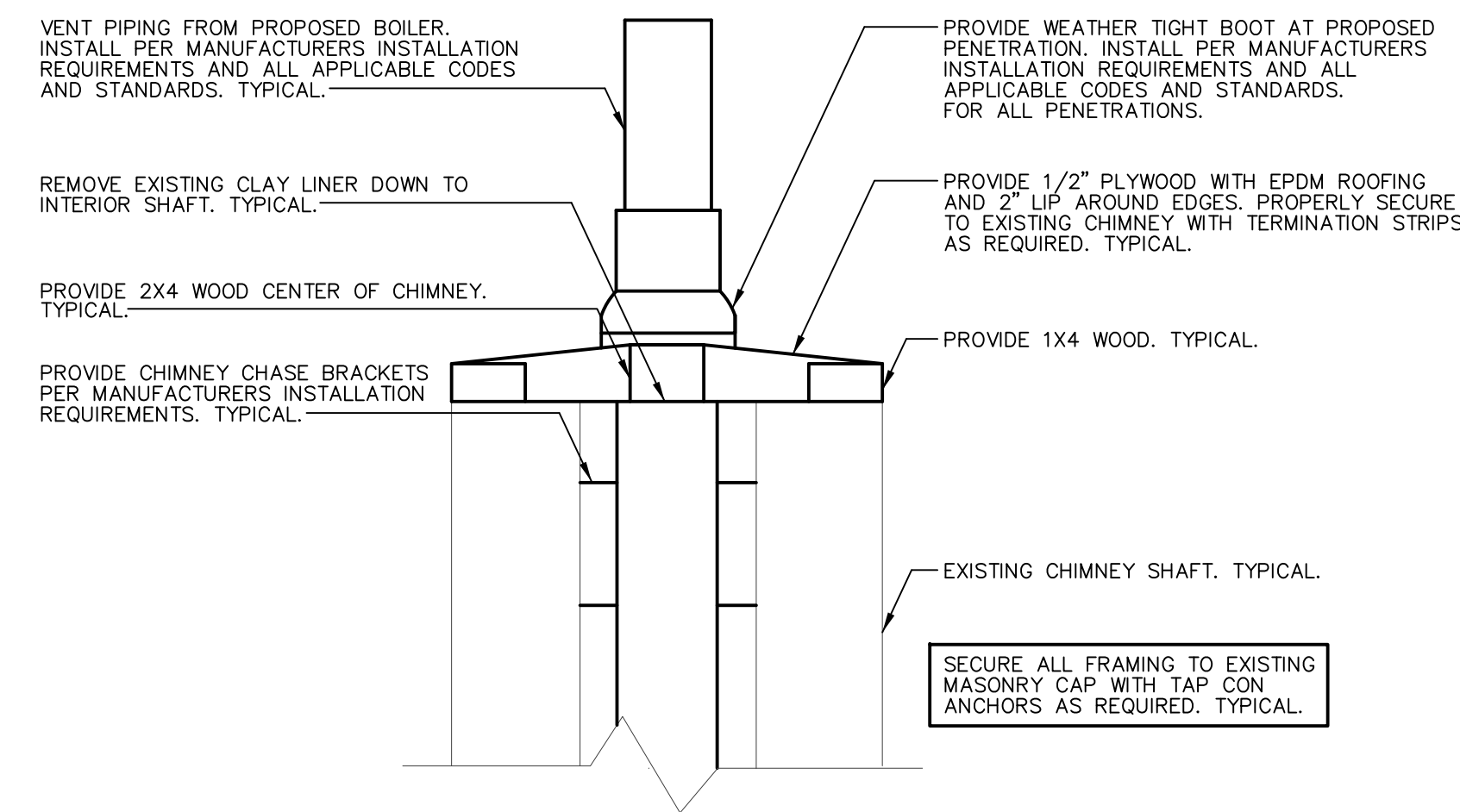
TYPICAL CONCRETE FLOOR
PIPE PENETRATION DETAIL

SCALE: N.T.S.



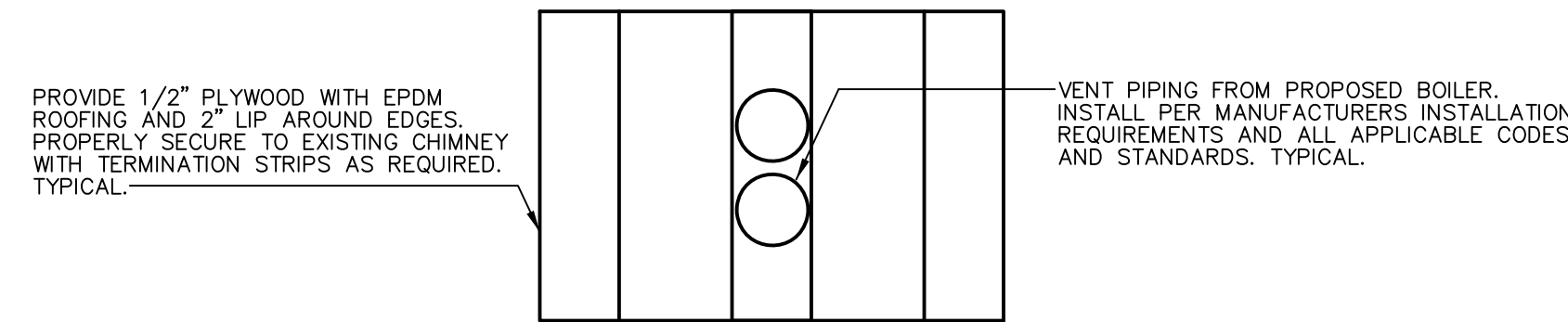
TYPICAL WALL PARTITION
PIPE PENETRATION DETAIL

SCALE: N.T.S.



TYPICAL VENT TERMINATION DETAIL
SIDE VIEW

SCALE: N.T.S.



TYPICAL VENT TERMINATION DETAIL
TOP VIEW

SCALE: N.T.S.

- ALTERNATE/ALLOWANCE NOTES:
1. THE PROJECT SHALL INCLUDE A \$20,000.00 ALLOWANCE FOR THE EXISTING HYDRONIC PIPING/SYSTEM REPAIRS WITHIN THE TUNNELS AND ATTIC.
 2. THE PROJECT SHALL INCLUDE DEDUCT ALTERNATE #1 FOR THE QM'S RTU-1, ASSOCIATED DUCTWORK, DIFFUSERS/GRILLES, CONTROLS, CEILING MOUNTED FANS (FAN-1/FAN-2) AND ASSOCIATED ACCESSORIES. TYPICAL.
 3. THE PROJECT SHALL INCLUDE ADD ALTERNATE #1 FOR THE SECOND BOILER (B-2) VENTING, PIPING, PUMP AND ASSOCIATED ACCESSORIES. TYPICAL.
 4. THE PROJECT SHALL INCLUDE ADD ALTERNATE #2 FOR THREE (3) SUMP PUMPS (SUMP-2) PIPING AND ASSOCIATED ACCESSORIES LOCATED IN TUNNELS. TYPICAL.
 5. THE PROJECT SHALL INCLUDE ADD ALTERNATE #3 FOR LOCATING THE TWO (2) PROPANE TANKS UNDERGROUND, INCLUDING BUT NO LIMITED TOO: DEADMEN, ANCHORING BACKFILL, RE-GRADING, TURF RESTORATION, ETC.

REVISIONS		
REV.	DESCRIPTION	DATE

CONSULTANT:

SALAMONE & ASSOCIATES, P.C.

CONSULTING ENGINEERS

116 North Plains Industrial Road
Wallingford, Connecticut 06492
Phone: (203) 281-6895 Fax: (203) 287-8728

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NOTES:

PROJECT TITLE

CONTRACT DOCUMENTS FOR
HVAC UPGRADES
AT
COLEBROOK CONSOLIDATED SCHOOL
STATE PROJECT #
CV 02-003 HVAC
COLEBROOK, CONNECTICUT

DRAWING TITLE

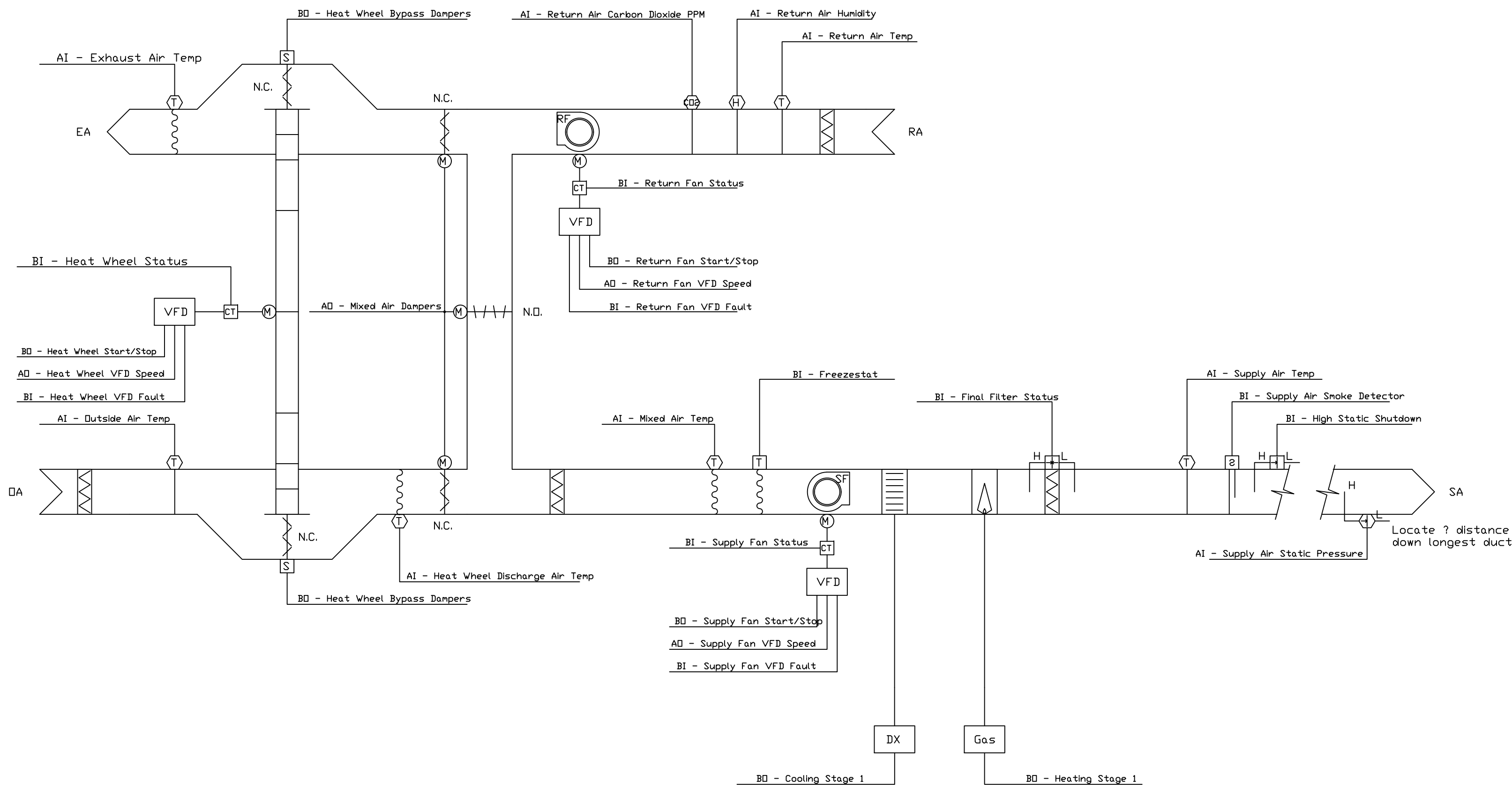
**MECHANICAL
DETAILS**

JOB NO.	3779.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	ST
DRAWN BY	ST
SCALE	AS NOTED
DATE	JANUARY 24, 2024

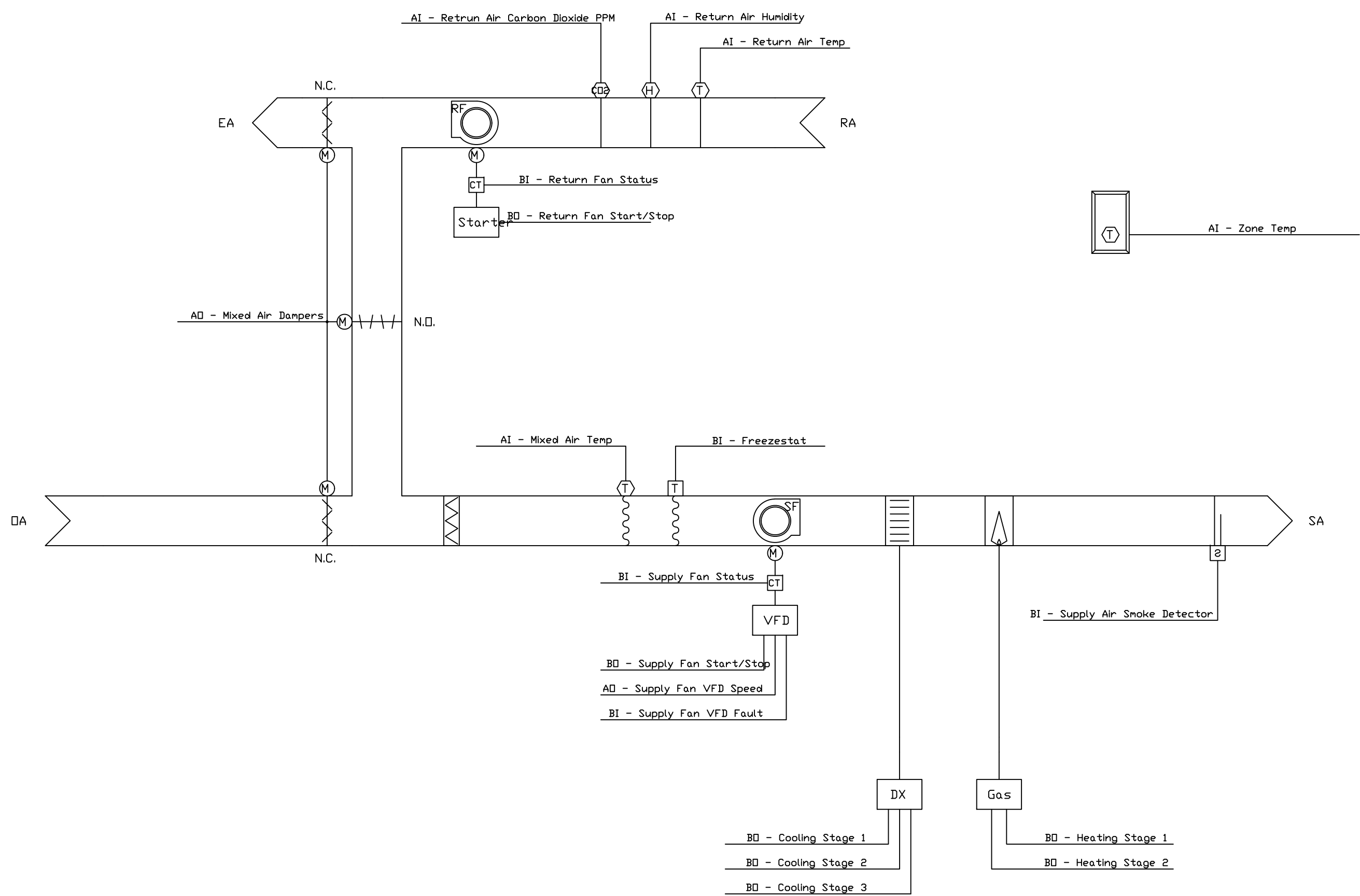
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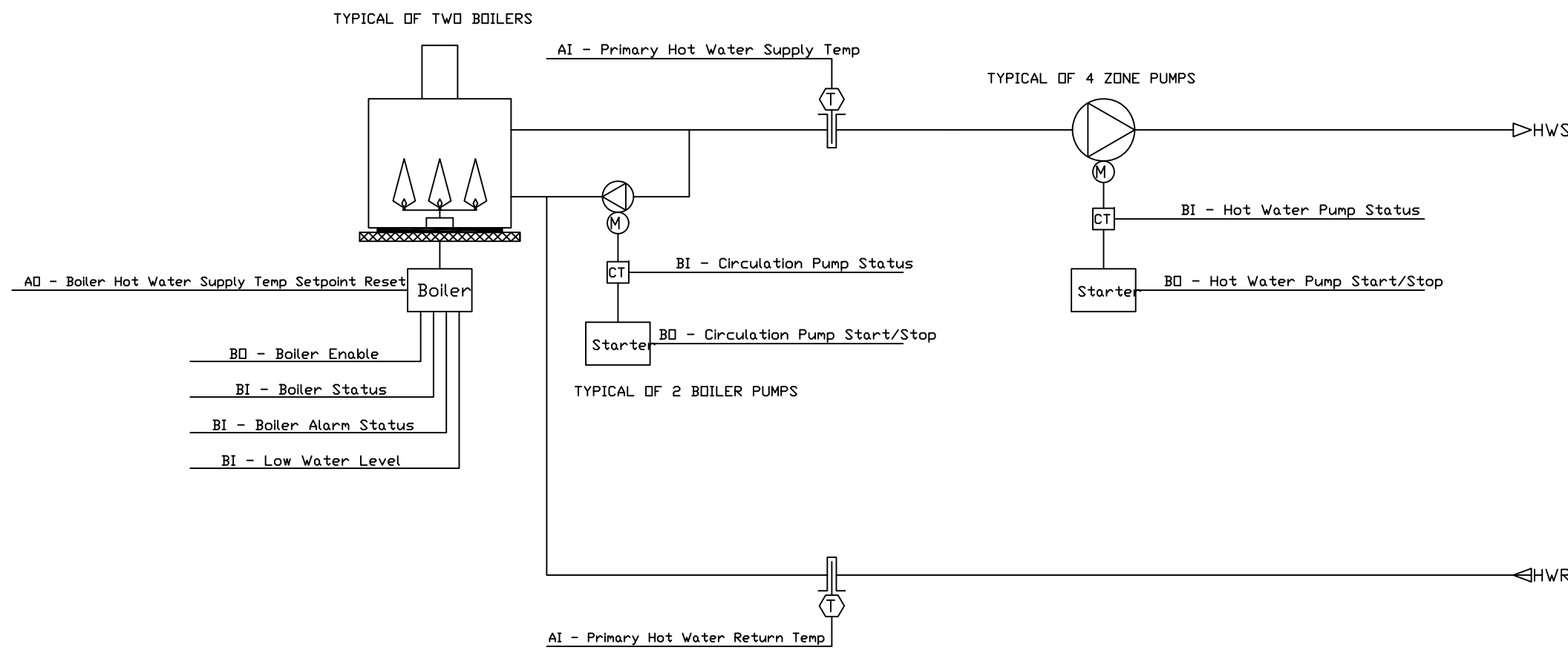
M-4



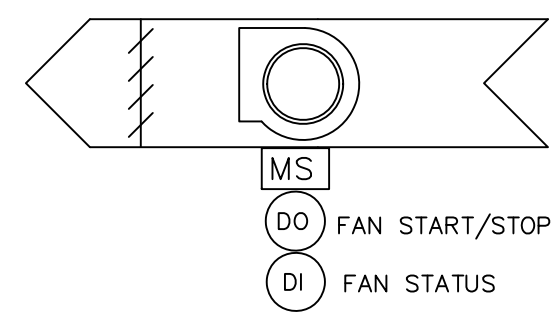
DOAS-1 & DOAS-2 UNIT CONTROLS DETAIL
SCALE: N.T.S.



RTU-1 CONTROLS DETAIL
SCALE: N.T.S.



BOILER SYSTEM CONTROLS DETAIL
SCALE: N.T.S.



EXHAUST FAN CONTROLS DETAIL
SCALE: 1/8"=1'-0"

- ALTERNATE/ALLOWANCE NOTES:
1. THE PROJECT SHALL INCLUDE A \$20,000.00 ALLOWANCE FOR THE EXISTING HYDRONIC PIPING/SYSTEM REPAIRS WITHIN THE TUNNELS AND ATTIC.
 2. THE PROJECT SHALL INCLUDE DEDUCT ALTERNATE #1 FOR THE OHMS RTU-1, ASSOCIATED DUCTWORK, DIFFUSERS/GRILLES, CONTROLS, CEILING MOUNTED FANS (FAN-1/FAN-2) AND ASSOCIATED ACCESSORIES. TYPICAL.
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 4. THE PROJECT SHALL INCLUDE ADD ALTERNATE #2 FOR THREE (3) SUMP PUMPS (SUMP-2) PIPING AND ASSOCIATED ACCESSORIES LOCATED IN TUNNELS. TYPICAL.
 5. THE PROJECT SHALL INCLUDE ADD ALTERNATE #3 FOR LOCATING THE TWO (2) PROPANE TANKS UNDERGROUND, INCLUDING BUT NO LIMITED TOO: DEADMEN, ANCHORING BACKFILL, RE-GRADING, TURF RESTORATION, ETC.

REVISIONS

REV.	DESCRIPTION	DATE

CONSULTANT:
SALAMONE & ASSOCIATES, P.C.
CONSULTING ENGINEERS
116 North Plains Industrial Road
Wallingford, Connecticut 06492
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NOTES:

PROJECT TITLE
CONTRACT DOCUMENTS FOR
HVAC UPGRADES
AT
COLEBROOK CONSOLIDATED SCHOOL
STATE PROJECT #
CV 09-008 HVAC
COLEBROOK, CONNECTICUT

DRAWING TITLE

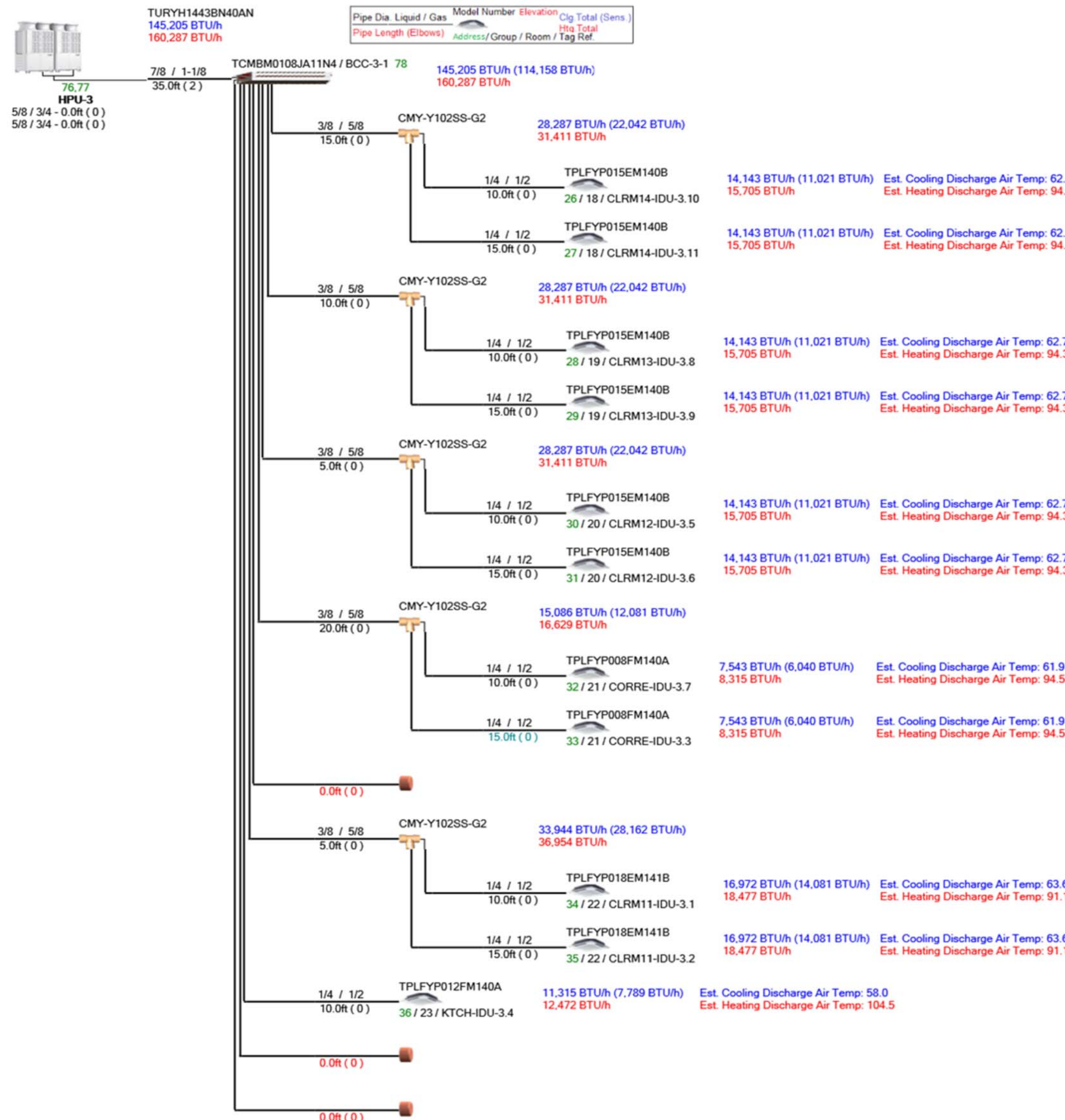
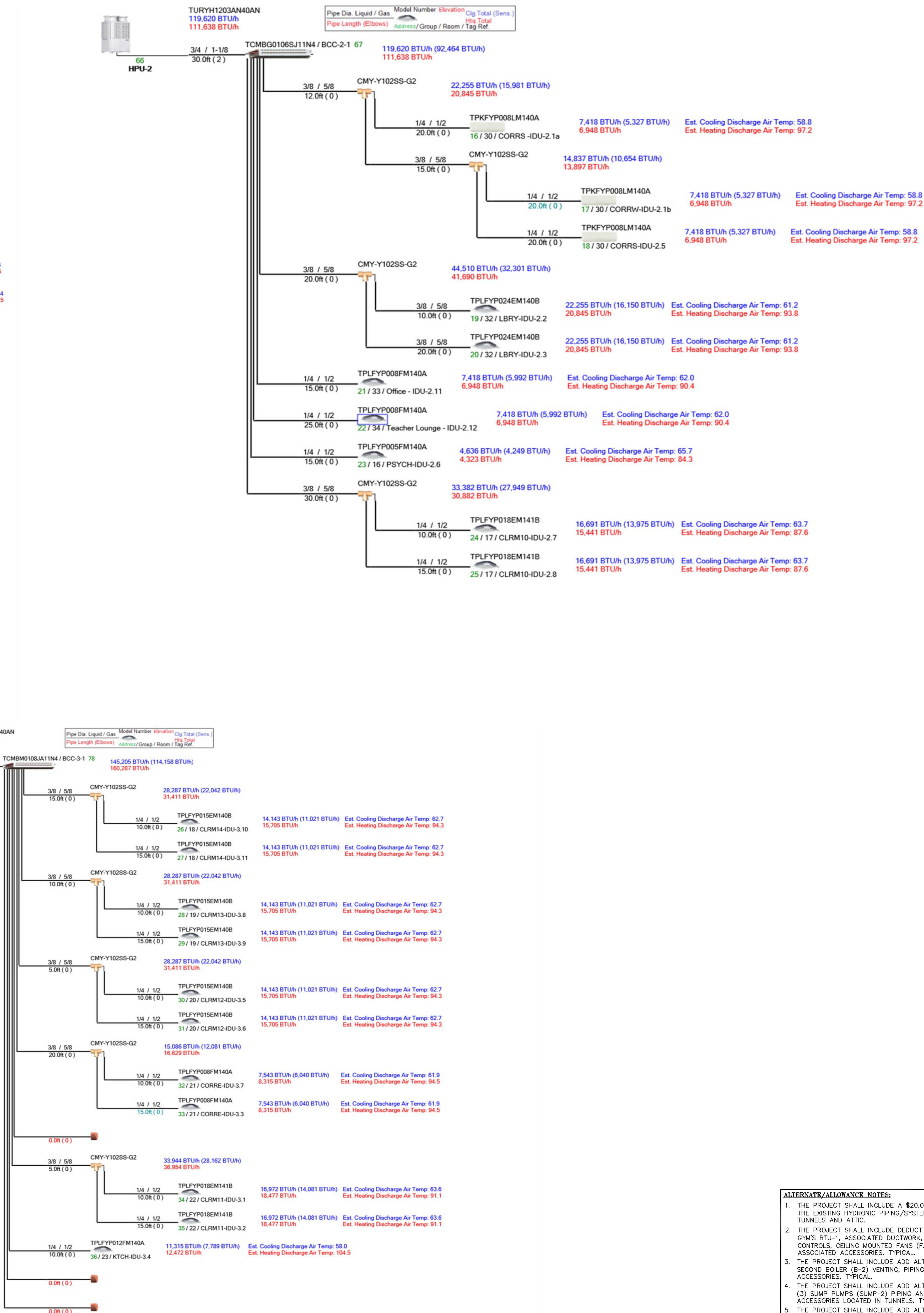
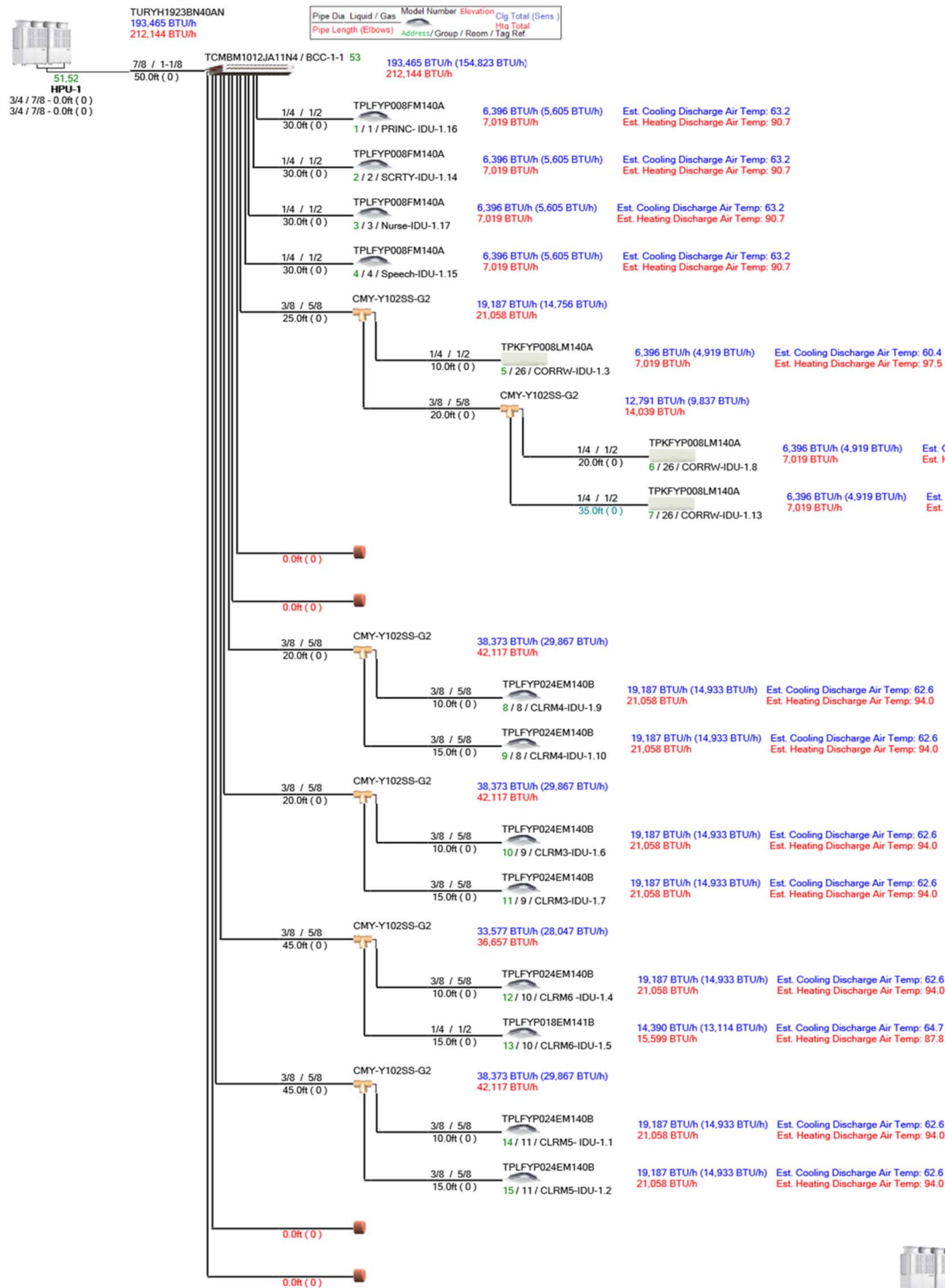
MECHANICAL DETAILS

JOB NO.	3779-01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	ST
DRAWN BY	ST
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

DRAWING NO.

M-5



REVISIONS		

CONSULTANT:

SALAMONE & ASSOCIATES, P.C.

CONSULTING ENGINEERS

116 North Plains Industrial Road
Wallingford, Connecticut 06492
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NOTES:

PROJECT TITLE

CONTRACT DOCUMENTS FOR
HVAC UPGRADES
AT
COLEBROOK CONSOLIDATED SCHOOL
STATE PROJECT #
CV 09-008 HVAC
COLEBROOK, CONNECTICUT

DRAWING TITLE

**MECHANICAL
DIAGRAMS**

JOB NO.	3779-01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	ST
DRAWN BY	CK
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

DRAWING NO.

M-6

- ALTERNATE/ALLOWANCE NOTES:
- THE PROJECT SHALL INCLUDE A \$20,000.00 ALLOWANCE FOR THE EXISTING HYDRONIC PIPING/SYSTEM REPAIRS WITHIN THE TUNNELS AND ATTIC.
 - THE PROJECT SHALL INCLUDE DEDUCT ALTERNATE #1 FOR THE OWNER'S RTU-1, ASSOCIATED DUCTWORK, DIFFUSERS/GRILLES, CONTROLS, CEILING MOUNTED FANS (FAN-1/FAN-2) AND ASSOCIATED ACCESSORIES. TYPICAL.
 - THE PROJECT SHALL INCLUDE ADD ALTERNATE #2 FOR THE SECOND BOILER (B-2) VENTING, PIPING, PUMP AND ASSOCIATED ACCESSORIES. TYPICAL.
 - THE PROJECT SHALL INCLUDE ADD ALTERNATE #2 FOR THREE (3) SUMP PUMPS (SUMP-2) PIPING AND ASSOCIATED ACCESSORIES LOCATED IN TUNNELS. TYPICAL.
 - THE PROJECT SHALL INCLUDE ADD ALTERNATE #3 FOR LOCATING THE TWO (2) PROPANE TANKS UNDERGROUND, INCLUDING BUT NO LIMITED TOO: DEADMEN, ANCHORING BACKFILL, RE-GRADING, TURF RESTORATION, ETC.

REGISTER, GRILLE AND DIFFUSER SCHEDULE							
AIR INLET / OUTLINE TYPE	NECK SIZE	TYPE	MAX. CFM	MANUFACTURER	MODEL	FINISH AND ACCESSORIES	
Ⓐ	15"x15"	4-WAY	500	TITUS	TDC	SEE NOTES BELOW	
Ⓑ	18"x10"	SPIRAL	400	TITUS	US300FL	SEE NOTES BELOW	
Ⓒ	14"x14"	RETURN	500	TITUS	50F	SEE NOTES BELOW	
Ⓓ	36"x12"	SPIRAL	1,100	TITUS	50F	SEE NOTES BELOW	

NOTES:
1. COORDINATE FINISH WITH OWNER.
2. ALL AIR INLETS AND OUTLETS SHALL BE CONSTRUCTED OF EXTRUDED ALUMINUM. TYPICAL.
3. PROVIDE ALL MANUFACTURER ACCESSORIES FOR COMPLETE AND APPROPRIATE INSTALLATION. TYPICAL.

PACKAGED ROOFTOP UNIT SCHEDULE	
UNIT NO.	RTU-1
SERVICE	SEE PLANS
LOCATION	GRADE
SUPPLY AIR FLOW (CFM)	10,400
RETURN AIR FLOW (CFM)	7,565
OUTSIDE AIR FLOW (CFM)	2,835
TOTAL STATIC PRESSURE	2.316
SUPPLY FAN MOTOR HP	10
COOLING DX COIL (TOTAL MBH)	334.82
EAT (DB/WB)	79.40/65.60
LAT (DB/WB)	54.76/54.69
LP HEATING INPUT (TOTAL MBH)	603
LP HEATING OUTPUT (TOTAL MBH)	486
EAT	51
LAT	94.46
ELECTRICAL CHARA. (V/PH/HZ)	208/3/60
APPROXIMATE UNIT WEIGHT (LBS)	5,156
DESIGN BASED MODEL	YCH330CEH
DESIGN BASED MANUFACTURER	TRANE

NOTES:
1. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND ALL APPLICABLE CODES. TYPICAL.
2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS. TYPICAL.
3. ALL UNITS SHALL BE SUPPLIED WITH THE FOLLOWING FACTORY SUPPLIED ACCESSORIES. TYPICAL.
A. FROST CONTROL-MODULATING WHEEL.
B. OA DAMPER LOW LEAKAGE.
C. MERV-8 AND MERV-13 FILTERS.
D. SPARE SET OF FILTERS.
E. CONDENSATE OVERFLOW SWITCH.
F. MOTOR SHAFT GROUNDING.
G. FURNACE CONTROLLED MODULATION 16:1.
H. INTERFACE TO THE PROPOSED HVAC BMS.
I. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.

DEDICATED OUTSIDE AIR UNIT SCHEDULE			
UNIT NO.	DOAS-1	DOAS-2	
SERVICE	SEE PLANS	SEE PLANS	
LOCATION	GRADE	GRADE	
SUPPLY AIR FLOW (CFM)	3,000	1,700	
OUTSIDE AIR FLOW (CFM)	3,000	1,700	
TOTAL STATIC PRESSURE	2.41	2.97	
SUPPLY FAN MOTOR HP	2	1.5	
EXHAUST AIR FLOW (CFM)	3,000	3,000	
EXHAUST FAN MOTOR HP	1.5		
ENERGY RECOVERY SUMMER/WINTER (MBH)	80.59/189.99	49.06/115.83	
COOLING DX COIL (TOTAL MBH)	123.3	61.5	
EAT (DB/WB)	79.9/66.6	79.2/66.1	
LAT (DB/WB)	47.3/47.3	49.7/49.2	
HEATING OUTPUT (TOTAL MBH)	202.5	60	
EAT	46.3	49.8	
LAT	108.5	79.3	
ELECTRICAL CHARA. (V/PH/HZ)	208/3/60	208/3/60	
APPROXIMATE UNIT WEIGHT (LBS)	4,017	2,031	
DESIGN BASED MODEL	OABE10BD3	ASHPOAB/G REV 5	
DESIGN BASED MANUFACTURER	TRANE	TRANE	

NOTES:
1. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND ALL APPLICABLE CODES. TYPICAL.
2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS. TYPICAL.
3. ALL UNITS SHALL BE SUPPLIED WITH THE FOLLOWING FACTORY SUPPLIED ACCESSORIES. TYPICAL.
A. FROST CONTROL-MODULATING WHEEL.
B. OA DAMPER LOW LEAKAGE.
C. MERV-8 AND MERV-13 FILTERS.
D. SPARE SET OF FILTERS.
E. CONDENSATE OVERFLOW SWITCH.
F. MOTOR SHAFT GROUNDING.
G. INTERFACE TO THE PROPOSED HVAC BMS.
H. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.

CEILING FAN SCHEDULE		
NUMBER	FAN-1	FAN-2
LOCATION	MULTIPURPOSE	MULTIPURPOSE
TYPE	CEILING MOUNTED	CEILING MOUNTED
DIAMETER	12"-0"	12"-0"
SPEED	76 RPM	76 RPM
MOTOR (V/PH/HZ)	120/1/60	120/1/60
DESIGN BASED MODEL	ESSANCE	ESSANCE
DESIGN BASED MANUF.	BIG ASS FANS	BIG ASS FANS

NOTES:
1. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND ALL APPLICABLE CODES.
2. PROVIDE WIRE WALL CONTROLLER. TYPICAL FOR EACH FAN.

EXHAUST FAN SCHEDULE		
EXHAUST FAN NO.	EF-1	EF-2
SERVICE	SEE PLANS	SEE PLANS
LOCATION	CEILING	CEILING
AIR FLOW (SCFM)	150	80
EXT. STATIC PRESS. (WG)	.25	.25
DRIVE TYPE	DIRECT	
MOTOR HP	47.9 WATTS	6.1 WATTS
ELECT. CHARAC. (V/PH/HZ)	120/1/60	120/1/60
LOCAL DISCONNECT	YES	YES
BACKDRAFT DAMPER	YES	YES
DESIGN BASED MODEL	SP-A190L	SP-80-VG
DESIGN BASED MANUFACTURER	GREENHECK	GREENHECK

NOTES:
1. SEE FLOOR PLANS/SPECIFICATIONS FOR FURTHER REQUIREMENTS.

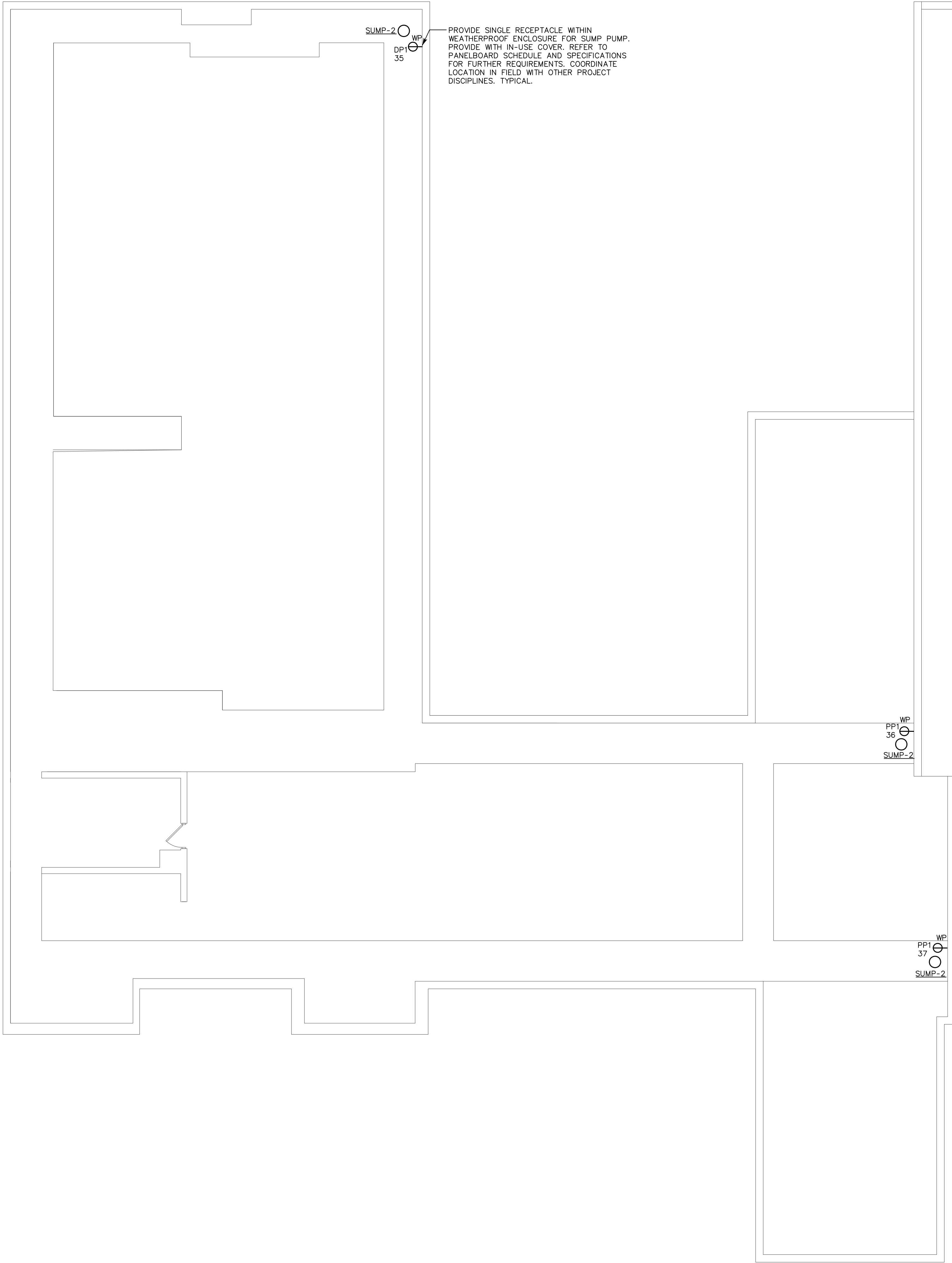
ERV SCHEDULE	
EXHAUST FAN NO.	ERV-1
SERVICE	TUNNELS
LOCATION	CEILING
AIR FLOW (SCFM)	800
EXT. STATIC PRESS. (WG)	1.00
TEMPERATURE RECOVERY	67%
ELECT. CHARAC. (V/PH/HZ)	208/1/60
LOCAL DISCONNECT	YES
BACKDRAFT DAMPER	YES
DESIGN BASED MODEL	TLGHF0600RVX02A
DESIGN BASED MANUFACTURER	LOSSNAY

NOTES:
1. SEE FLOOR PLANS FOR FURTHER REQUIREMENTS.

PUMP SCHEDULE							
PUMP NUMBER	OP-1	OP-2	P-1	P-1A	P-2	P-3	P-4
LOCATION	SEE FLOOR PLANS	SEE FLOOR PLANS	SEE FLOOR PLANS	SEE FLOOR PLANS	SEE FLOOR PLANS	SEE FLOOR PLANS	SEE FLOOR PLANS
MIN. FLOW RATE (GPM)	64	64	55	55	80	2.0	14.0
PRESSURE DROP	15	15	30	30	30	3	5
HORSEPOWER	17.5	17.2	17.2	17.2	1	17.3	
MOTOR (V/PH/HZ)	230/1/60	230/1/60	230/1/60	230/1/60	230/1/60	230/1/60	115/1/60
DESIGN BASED MODEL	ECODIRC 20-140	ECODIRC 20-140	ECODIRC 40-200	ECODIRC 40-200	ECODIRC 40-200	ECODIRC 40-200	PL-30
DESIGN BASED MANUFACTURER	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT

NOTES:
1. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND ALL APPLICABLE CODES.
2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS. TYPICAL.

INDOOR AIR CONDITIONING UNIT SCHEDULE																				
Tag Reference	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Temp (DB/DB)	Heating Design Temp (DB/DB)	Cooling Diversity Factor	Cooling Ytd Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Heating Diversity Factor	Heating Ytd Capacity (BTU/h)	Estimated Cooling Coil LAT (°F) / SENS (°F)	Estimated Heating Coil LAT (°F) / SENS (°F)	Rating Pipe Size (inches)	Fan Speed Setting	Peak Fan Airflow (cfm) (Duct Inlet)	Max Fan EDP (ft H ₂ O) (Duct Inlet)	Power Cooling (kW)	Power Heating (kW)	Electrical Mechanical
PRNC-IDU-1.14	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.17	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.19	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.21	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.23	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.25	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.27	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.29	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.31	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.33	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.35	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.37	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.39	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.41	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.43	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.45	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.47	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.49	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.51	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.53	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.55	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.57	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.59	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.61	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.63	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.65	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.67	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.69	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.71	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.73	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.75	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.77	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.79	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.81	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.83	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.85	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.87	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.89	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.91	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.93	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.95	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.97	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-1.99	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.01	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.03	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.05	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.07	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.09	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.11	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.13	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.15	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.17	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.19	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.21	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.23	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.25	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315	phase	0.92	0.92	0.280/0.215
PRNC-IDU-2.27	TPLPFPOAF	Ceiling-Cassette (Four-Way)	8,000	9,000	58.0/7.0	70	FULL	8,395.8	5,804.8	FULL	7,919.5	63.2	90.7	14 / 1/2	HIGH	315				



TUNNEL ELECTRICAL PLAN
SCALE: 1/8"=1'-0"

PROVIDE ADDRESSABLE MODULE FOR MONITORING OF PROPOSED CO DETECTOR. PROVIDE CONNECTION TO EXISTING BUILDING FIRE ALARM SYSTEM. PROVIDE ALL ASSOCIATED WIRING, CONDUIT, PROGRAMMING, ETC. REQUIRED.

RELOCATE EXISTING ROOF DE-ICER SWITCHES AND ASSOCIATED WIRING/ CONDUIT TO A HEIGHT OF FOUR (4) FEET ABOVE PROPOSED FLOOR LEVEL. REROUTE/MODIFY/EXTEND EXISTING CIRCUITRY AS REQUIRED. TYPICAL.

EXISTING FEEDER WIRING/CONDUIT TO PANEL PP-5' TO REMAIN.

PROVIDE JUNCTION BOX FOR CONNECTION OF EXISTING FEEDER TO PANEL PP-5 AND PROPOSED PANELBOARD PP1. SIZE PER NEC REQUIREMENTS.

PROVIDE ELECTRICAL CONNECTION TO ERV-1. PROVIDE 30A, 240V, 1PH, NEMA 1 DISCONNECT WITH 6A TIME DELAY FUSES. REFER TO PANEL SCHEDULES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. COORDINATE WITH OTHER PROJECT DISCIPLINES.

PROVIDE ELECTRICAL CONNECTION TO BOILER. PROVIDE LOCAL DISCONNECT SWITCH. REFER TO PANEL SCHEDULES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. COORDINATE WITH OTHER PROJECT DISCIPLINES. TYPICAL.

PROVIDE GFCI SINGLE OUTLET WITH PILOT LIGHT FOR SUMP-1. REFER TO PANEL SCHEDULES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. COORDINATE WITH OTHER PROJECT DISCIPLINES.

PROVIDE ELECTRICAL CONNECTION TO UNIT HEATER AND ASSOCIATED THERMOSTAT. PROVIDE LOCAL DISCONNECT SWITCH. COORDINATE LOCATION OF THERMOSTAT IN FIELD. REFER TO PANEL SCHEDULES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. COORDINATE WITH OTHER PROJECT DISCIPLINES.

PROVIDE ELECTRICAL CONNECTION TO POWER SUPPLY FOR BAS SYSTEM BOILER CONTROLLER. REFER TO PANEL SCHEDULE AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. COORDINATE WITH OTHER PROJECT DISCIPLINES.

PROVIDE ELECTRICAL CONNECTION TO POWER SUPPLY FOR BAS SYSTEM MAIN CONTROLLER. REFER TO PANEL SCHEDULE AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. COORDINATE WITH OTHER PROJECT DISCIPLINES.

ENLARGED BOILER ROOM
ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

ADD ALTERNATE #1:
ALL ELECTRICAL WORK ASSOCIATED WITH BOILER #2 AND ASSOCIATED PUMP CP-2 SHALL BE PART OF ADD ALTERNATE #1. INCLUDING BUT NOT LIMITED TO, WIRING, CONDUIT, HEAT STAT, DISCONNECT SWITCHES, EMERGENCY SHUT-OFF SWITCHES, CIRCUIT BREAKERS, ETC.

PROVIDE CARBON MONOXIDE DETECTOR. SYSTEM SENSOR 'CO1224' OR APPROVED EQUAL.

PROVIDE ELECTRICAL PANEL 'DP2'. SEE POWER RISER DIAGRAM, PANEL SCHEDULES AND SPECIFICATIONS FOR REQUIREMENTS.

PROVIDE ELECTRICAL PANEL 'PP1'. PROVIDE FEEDER CONDUIT FROM PANEL TO EXISTING LB AT CRAWLSPACE ACCESS. RECONNECT EXISTING FEEDER WIRING TO TO PROPOSED PANEL 'PP1'. EXISTING BRANCH CIRCUIT WIRING/CONDUIT TO BE RECONNECTED TO PANEL 'PP1'. REROUTE/MODIFY/EXTEND EXISTING CIRCUITRY (FEEDER AND BRANCH) AS REQUIRED FOR RECONNECTION TO PROPOSED PANELBOARD. TYPICAL.

PROVIDE ELECTRICAL PANEL 'PP2'. PROVIDE CONNECTION TO PANEL 'PP1'. SEE POWER RISER DIAGRAM, PANEL SCHEDULES AND SPECIFICATIONS FOR REQUIREMENTS. EXISTING BRANCH CIRCUIT WIRING/CONDUIT TO BE RECONNECTED TO PANEL 'PP2'. REROUTE/MODIFY/EXTEND EXISTING CIRCUITRY AS REQUIRED FOR RECONNECTION TO PROPOSED PANELBOARD. TYPICAL.

PROVIDE HEAT-STAT SHUT-OFF DEVICE FOR BOILER. PROVIDE ALL ASSOCIATED WIRING/ CONDUIT REQUIRED FOR INTERCONNECTION. COORDINATE WITH OTHER PROJECT DISCIPLINES. TYPICAL.

PROVIDE EMERGENCY SHUT-OFF SWITCH FOR BOILER. PROVIDE ALL ASSOCIATED WIRING/ CONDUIT REQUIRED FOR INTERCONNECTION. COORDINATE WITH OTHER PROJECT DISCIPLINES. TYPICAL.

PROVIDE ELECTRICAL CONNECTION TO PUMP. PROVIDE LOCAL DISCONNECT SWITCH. REFER TO PANEL SCHEDULES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. COORDINATE WITH OTHER PROJECT DISCIPLINES. TYPICAL P-1, P-1A, P-2 & P-2A.

PROVIDE ELECTRICAL CONNECTION TO WH PUMP. PROVIDE LOCAL DISCONNECT SWITCH. REFER TO PANEL SCHEDULES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. COORDINATE WITH OTHER PROJECT DISCIPLINES.

PROVIDE 120V/24VAC, 40VA MINIMUM TRANSFORMER FOR VRF CONTROLLER. COORDINATE LOCATION IN FIELD WITH DIV. 23. REFER TO PANEL SCHEDULE AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. COORDINATE WITH OTHER PROJECT DISCIPLINES.

PROVIDE ELECTRICAL CONNECTION TO BOILER CIRCULATOR PUMP. PROVIDE LOCAL DISCONNECT SWITCH. REFER TO PANEL SCHEDULES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. COORDINATE WITH OTHER PROJECT DISCIPLINES. TYPICAL CP-1 & CP-2.

BASE BID NOTE:
CONTRACTOR SHALL CARRY AN ALLOWANCE OF \$15,000 AS PART OF THEIR BASE BID FOR EVERSOURCE CHARGES.

- ELECTRICAL NOTES:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING TOOLS, MATERIAL, MANPOWER, ETC. REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT.
 - DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY ALL LOCATIONS, QUANTITIES AND DIMENSIONS OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT WITHIN AND AFFECTING PROJECT SCOPE OF WORK.
 - ALL WORK SHALL BE PERFORMED IN A SAFE AND ORDERLY MANNER WITH QUALIFIED AND LICENSED PERSONNEL IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES AND ALL APPLICABLE CODES AND STANDARDS. TYPICAL.
 - ROUTING OF ALL CONDUIT SHALL BE COORDINATED WITH EXISTING CONDITIONS, STRUCTURAL FRAMING ELEMENTS AND ALL OTHER PROJECT DISCIPLINES. TYPICAL.
 - BUILDINGS WILL BE OCCUPIED DURING ALL PHASES OF CONSTRUCTION. ALL WORK WILL BE PERFORMED CAUSING MINIMAL DISRUPTION TO THE FACILITY. CONTAIN AND CONTROL CONSTRUCTION DEBRIS SO AS NOT TO INTERFERE WITH DAILY OPERATION OF BUILDING. KEEP EGRESS PATHS FREE AND CLEAR OF ANY OBSTRUCTIONS.
 - ALL SERVICE DISRUPTIONS MUST BE SCHEDULED A MINIMUM OF 72 HOURS IN ADVANCE WITH THE OWNER'S REPRESENTATIVE.
 - CONTRACTOR SHALL NOT DAMAGE ANY EXISTING EQUIPMENT, PIPING, OR ASSOCIATED ACCESSORIES WHICH ARE TO REMAIN.
 - PROVIDE ALL REQUIRED PENETRATIONS. COORDINATE WITH EXISTING STRUCTURAL ELEMENTS. FIRE STOP ALL PENETRATIONS. TYPICAL.
 - INSTALL ALL EQUIPMENT AND ASSOCIATED ACCESSORIES PER NEC AND MANUFACTURER'S REQUIREMENTS.

REVISIONS		
REV.	DESCRIPTION	DATE

CONSULTANT:

SALAMONE & ASSOCIATES, P.C.
CONSULTING ENGINEERS
116 North Plains Industrial Road
Wallingford, Connecticut 06492
Phone: (203) 281-6895 Fax: (203) 287-8728

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NOTES:

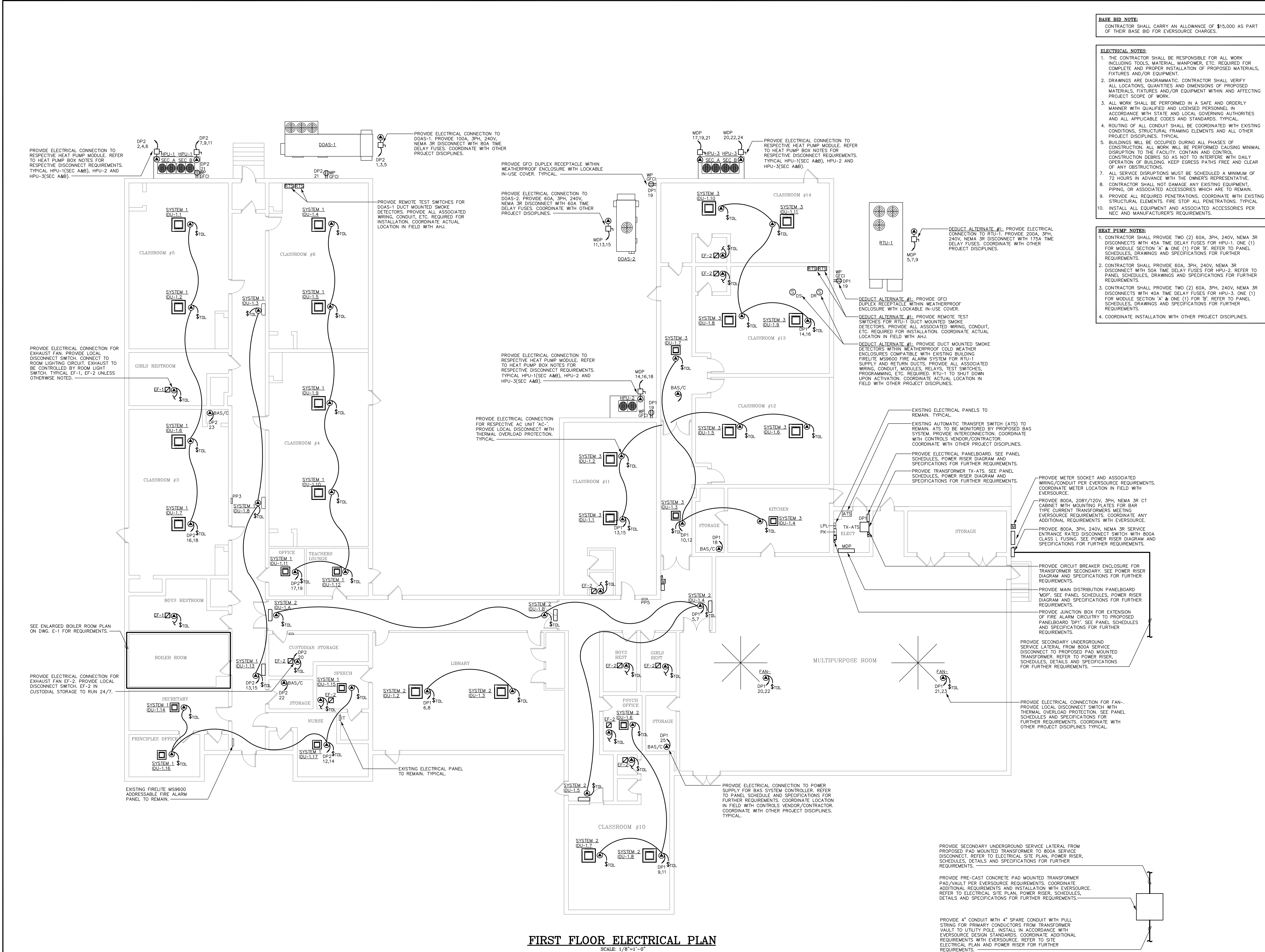
PROJECT TITLE
CONTRACT DOCUMENTS FOR
HVAC UPGRADES
AT
COLEBROOK CONSOLIDATED SCHOOL
STATE PROJECT #
CV 02-008 HVAC
COLEBROOK, CONNECTICUT

DRAWING TITLE
**TUNNEL AND ENLARGED
BOILER ROOM
ELECTRICAL PLANS**

JOB NO.	3779.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	ST
DRAWN BY	ST
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

DRAWING NO.
E-1



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

REVISIONS		
REV.	DESCRIPTION	DATE

CONSULTANT:

SALAMONE & ASSOCIATES, P.C.
CONSULTING ENGINEERS
116 North Plains Industrial Road
Wallingford, Connecticut 06492
Phone: (203) 281-6895 Fax: (203) 287-8728

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NOTES:

PROJECT TITLE

CONTRACT DOCUMENTS FOR HVAC UPGRADES AT

COLEBROOK CONSOLIDATED SCHOOL
STATE PROJECT # CV 02-003 HVAC
COLEBROOK, CONNECTICUT

DRAWING TITLE

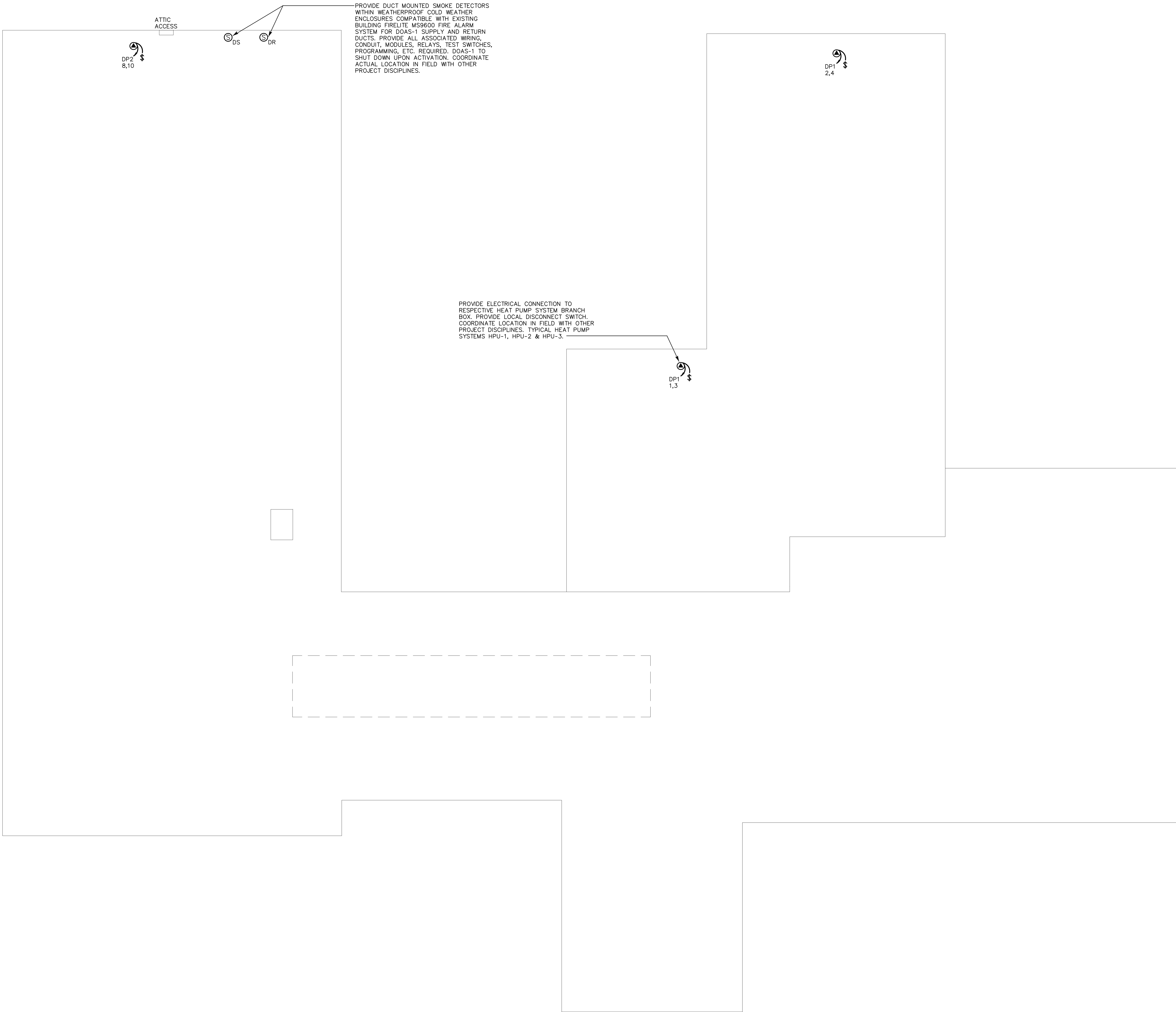
FIRST FLOOR ELECTRICAL PLAN

JOB NO.	3779-01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	FB
DRAWN BY	CK
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

DRAWING NO.

E-2



ATTIC ELECTRICAL PLAN
SCALE: 1/8"=1'-0"

BASE BID NOTE:
CONTRACTOR SHALL CARRY AN ALLOWANCE OF \$15,000 AS PART OF THEIR BASE BID FOR EVERSOURCE CHARGES.

- ELECTRICAL NOTES:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING TOOLS, MATERIAL, MANPOWER, ETC. REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT.
 2. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY ALL LOCATIONS, QUANTITIES AND DIMENSIONS OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT WITHIN AND AFFECTING PROJECT SCOPE OF WORK.
 3. ALL WORK SHALL BE PERFORMED IN A SAFE AND ORDERLY MANNER WITH QUALIFIED AND LICENSED PERSONNEL IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES AND ALL APPLICABLE CODES AND STANDARDS. TYPICAL.
 4. ROUTING OF ALL CONDUIT SHALL BE COORDINATED WITH EXISTING CONDITIONS, STRUCTURAL FRAMING ELEMENTS AND ALL OTHER PROJECT DISCIPLINES. TYPICAL.
 5. BUILDINGS WILL BE OCCUPIED DURING ALL PHASES OF CONSTRUCTION. ALL WORK WILL BE PERFORMED CAUSING MINIMAL DISRUPTION TO THE FACILITY. CONTAIN AND CONTROL CONSTRUCTION DEBRIS SO AS NOT TO INTERFERE WITH DAILY OPERATION OF BUILDING. KEEP EGRESS PATHS FREE AND CLEAR OF ANY OBSTRUCTIONS.
 7. ALL SERVICE DISRUPTIONS MUST BE SCHEDULED A MINIMUM OF 72 HOURS IN ADVANCE WITH THE OWNER'S REPRESENTATIVE.
 8. CONTRACTOR SHALL NOT DAMAGE ANY EXISTING EQUIPMENT, PIPING, OR ASSOCIATED ACCESSORIES WHICH ARE TO REMAIN.
 9. PROVIDE ALL REQUIRED PENETRATIONS. COORDINATE WITH EXISTING STRUCTURAL ELEMENTS. FIRE STOP ALL PENETRATIONS. TYPICAL
 10. INSTALL ALL EQUIPMENT AND ASSOCIATED ACCESSORIES PER NEC AND MANUFACTURER'S REQUIREMENTS.

REVISIONS		
REV.	DESCRIPTION	DATE

CONSULTANT:

SALAMONE & ASSOCIATES, P.C.
CONSULTING ENGINEERS

116 North Plains Industrial Road
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Phone: (203) 281-6895 Fax: (203) 287-8728

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NOTES:

PROJECT TITLE
CONTRACT DOCUMENTS FOR
HVAC UPGRADES
AT
COLEBROOK CONSOLIDATED SCHOOL
STATE PROJECT #
CV 09-003 HVAC
COLEBROOK, CONNECTICUT

DRAWING TITLE
ATTIC ELECTRICAL PLAN

JOB NO.	3779.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	FB
DRAWN BY	CK
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

DRAWING NO.
E-3

PANELBOARD MDP		Class: Type:	Short Circuit Rating (Min.): 42 KAIC Remark:			
SERVICE		208Y/120 Volts 3 Phase 4 Wire			S/E Label: YES	
PANELBOARD CONFIGURATION		800 AMPERE MAIN BUS (COPPER) Trim: SURFACE			Entrance: TOP/BOTTOM Equipment Ground Bus: YES	
MAIN		Type: 800/3P MCB Wire Size: SEE RISER DIAGRAM			Enclosure: NEMA 1	
BRANCH CIRCUITS		Branch Protective Devices: (MOLDED CASE CIRCUIT BREAKERS)				
Circ No	Circuit Designation	KVA Load	Pole	Trip Amps	Frame Amps	Wire (min.) See Remark
1	50 KVA XMFR (ATS)	47.83	2	300	400	SEE POWER RISER DIAGRAM
2	PANEL DP-2	65.02	3	225	225	SEE POWER RISER DIAGRAM
3	- - -	-	-	-	-	- - -
4	- - -	-	-	-	-	- - -
5	RTU-1	55.78	3	175	225	2"Cu, 3-#2/O AWG + #6 GND
6	- - -	-	-	-	-	- - -
7	- - -	-	-	-	-	- - -
8	PANEL DP1	7.48	3	125	125	SEE POWER RISER DIAGRAM
9	- - -	-	-	-	-	- - -
10	- - -	-	-	-	-	- - -
11	DOAS-2	19.25	3	80	100	1"Cu, 3-#6 AWG + #8 GND
12	- - -	-	-	-	-	- - -
13	- - -	-	-	-	-	- - -
14	HPU-2	16.91	3	70	100	3/4"Cu, 3-# 8 AWG + #8 GND
15	- - -	-	-	-	-	- - -
16	- - -	-	-	-	-	- - -
17	HPU-3 (MODULE SEC A)	13.67	3	60	100	3/4"Cu, 3-# 8 AWG + #10 GND
18	- - -	-	-	-	-	- - -
19	- - -	-	-	-	-	- - -
20	HPU-3 (MODULE SEC B)	13.67	3	60	100	3/4"Cu, 3-# 8 AWG + #10 GND
21	- - -	-	-	-	-	- - -
22	- - -	-	-	-	-	- - -
23	PREPARED SPACE	-	3	-	100	- - -
24	- - -	-	-	-	-	- - -
25	- - -	-	-	-	-	- - -
26	PREPARED SPACE	-	3	-	100	- - -
27	- - -	-	-	-	-	- - -
28	- - -	-	-	-	-	- - -
29	PREPARED SPACE	-	3	-	100	- - -
30	- - -	-	-	-	-	- - -
31	- - -	-	-	-	-	- - -
32	PREPARED SPACE	-	3	-	100	- - -
33	- - -	-	-	-	-	- - -
34	- - -	-	-	-	-	- - -
35	PREPARED SPACE	-	1	-	100	- - -
36	- - -	-	-	-	-	- - -
37	PREPARED SPACE	-	1	-	100	- - -
38	PV SYSTEM	-	3	-	100	WIRING/CONDUIT PER NEC
39	PREPARED SPACE	-	1	-	100	- - -
40	- - -	-	-	-	-	- - -
41	PREPARED SPACE	-	1	-	100	- - -
42	- - -	-	-	-	-	- - -
TOTAL KVA: 191.23*						

INTEGRAL SURGE PROTECTION DEVICE (SPD)
* DERATED PER NEC
"E" - PROVIDE CIRCUIT BREAKER SIZED PER
NEC FOR PV SYSTEM. INSTALLED.

PANELBOARD PP1		Class: Type:		Short Circuit Rating (Min.): 22 KAIC Remark:		
SERVICE		120/240 Volts 1 Phase 3 Wire			S/E Label: NO	
PANELBOARD CONFIGURATION		225 AMPERE MAIN BUS (COPPER) Trim: SURFACE			Entrance: TOP/BOTTOM Equipment Ground Bus: YES	
MAIN		Type: MLO Wire Size: SEE RISER DIAGRAM			Enclosure: NEMA 1 FEED THRU LUGS	
BRANCH CIRCUITS		Branch Protective Devices: (MOLDED CASE CIRCUIT BREAKERS)				
Circ No	Circuit Designation	KVA Load	Pole	Trip Amps	Frame Amps	Wire (min.) See Remark
1	EXISTING PANEL PP-3	-	2	100	100	REROUTE/MODIFY/EXTEND EXISTING
2	EXISTING PANEL PP-5	-	2	100	100	SEE POWER RISER DIAGRAM
3	- - -	-	-	-	-	- - -
4	- - -	-	-	-	-	- - -
5	EXISTING	-	2	15	100	REROUTE/MODIFY/EXTEND EXISTING
6	EXISTING IT PANEL IN LIBRARY	-	2	60	100	REROUTE/MODIFY/EXTEND EXISTING
7	- - -	-	-	-	-	- - -
8	- - -	-	-	-	-	- - -
9	EXISTING	-	2	15	100	REROUTE/MODIFY/EXTEND EXISTING
10	EXISTING	-	2	20	100	REROUTE/MODIFY/EXTEND EXISTING
11	- - -	-	-	-	-	- - -
12	- - -	-	-	-	-	- - -
13	EXISTING	-	2	30	100	REROUTE/MODIFY/EXTEND EXISTING
14	EXISTING	-	2	40	100	REROUTE/MODIFY/EXTEND EXISTING
15	- - -	-	-	-	-	- - -
16	- - -	-	-	-	-	- - -
17	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
18	EXISTING	-	2	60	100	REROUTE/MODIFY/EXTEND EXISTING
19	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
20	- - -	-	-	-	-	- - -
21	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
22	EXISTING	-	2	60	100	REROUTE/MODIFY/EXTEND EXISTING
23	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
24	- - -	-	-	-	-	- - -
25	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
26	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
27	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
28	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
29	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
30	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
31	EXISTING	-	2	20	100	REROUTE/MODIFY/EXTEND EXISTING
32	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
33	- - -	-	-	-	-	- - -
34	EXISTING	-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING
35	SUMP PUMP - TUNNEL	1.04	1	20	100	3/4"C, 2-#10 AWG + #10 GND
36	SUMP PUMP - TUNNEL	1.04	1	20	100	3/4"C, 2-#10 AWG + #10 GND
37	SUMP PUMP - TUNNEL	1.04	1	20	100	3/4"C, 2-#10 AWG + #10 GND
38	SUMP PUMP - BOILER ROOM	1.10	1	20	100	3/4"C, 2-#12 AWG + #12 GND
39	PREPARED SPACE	-	1	-	100	- - -
40	PREPARED SPACE	-	1	-	100	- - -
41	PREPARED SPACE	-	1	-	100	- - -
42	PREPARED SPACE	-	1	-	100	- - -
TOTAL KVA:		-	-	-	-	-

"F" - GFCI CIRCUIT BREAKER

PANELBOARD DP1		Class: Type:		Short Circuit Rating (Min.): 22 KAIC Remark:			
SERVICE		208Y/120 Volts 3 Phase 4 Wire		S/E Label: NO			
PANELBOARD CONFIGURATION		125 AMPERE MAIN BUS (COPPER) Trim: SURFACE		Entrance: TOP/BOTTOM Equipment Ground Bus: YES			
MAIN		Type: MLO Wire Size: SEE RISER DIAGRAM		Enclosure: NEMA 1			
BRANCH CIRCUITS		Branch Protective Devices: (MOLDED CASE CIRCUIT BREAKERS)					
Circ No	Circuit Designation	KVA Load	Pole	Trip Amps	Frame Amps	Wire (min.)	See Remark
1	HPU-2 BRANCH BOX	0.15	2	15	100	3/4"Cu, 2-#12 AWG + #12 GND	
2	HPU-3 BRANCH BOX	0.21	2	15	100	3/4"Cu, 2-#12 AWG + #12 GND	
3	- - -	-	-	-	-	- - -	
4	- - -	-	-	-	-	- - -	
5	IDU'S - CORRIDORS	0.20	2	15	100	3/4"Cu, 2-#12 AWG + #12 GND	
6	IDU'S - LIBRARY	0.22	2	15	100	3/4"Cu, 2-#12 AWG + #12 GND	
7	- - -	-	-	-	-	- - -	
8	- - -	-	-	-	-	- - -	
9	IDU'S - PYSCH OFF/CLASSRM #10	0.27	2	15	100	3/4"Cu, 2-#12 AWG + #12 GND	
10	IDU'S - CORRIDORS/KITCHEN	0.18	2	15	100	3/4"Cu, 2-#12 AWG + #12 GND	
11	- - -	-	-	-	-	- - -	
12	- - -	-	-	-	-	- - -	
13	IDU'S - CLASSROOMS #11/#12	0.39	2	15	100	3/4"Cu, 2-#12 AWG + #12 GND	
14	IDU'S - CLASSROOMS #13/#14	0.32	2	15	100	3/4"Cu, 2-#12 AWG + #12 GND	
15	- - -	-	-	-	-	- - -	
16	- - -	-	-	-	-	- - -	
17	- - -	-	-	-	-	- - -	
18	BAS PANEL - KITCHEN STORAGE	0.10	1	20	100	3/4"Cu, 2-#12 AWG + #12 GND	
19	EXT GFCI HPUS, RTU-1, DOAS-2	0.54	1	20	100	3/4"Cu, 2-#10 AWG + #10 GND	
20	FAN - CAFE	2.10	2	20	100	3/4"Cu, 2-#10 AWG + #10 GND	
21	FAN - CAFE	2.10	2	20	100	3/4"Cu, 2-#10 AWG + #10 GND	
22	- - -	-	-	-	-	- - -	
23	- - -	-	-	-	-	- - -	
24	FIRE ALARM	0.60	1	20	100	3/4"Cu, 2-#12 AWG + #12 GND	8'
25	BAS PANEL-MULTI-PURP STORAGE	0.10	1	20	100	3/4"Cu, 2-#12 AWG + #12 GND	
26	PREPARED SPACE	-	1	-	100	- - -	
27	PREPARED SPACE	-	1	-	100	- - -	
28	PREPARED SPACE	-	1	-	100	- - -	
29	PREPARED SPACE	-	1	-	100	- - -	
30	PREPARED SPACE	-	1	-	100	- - -	
31	PREPARED SPACE	-	1	-	100	- - -	
32	PREPARED SPACE	-	1	-	100	- - -	
33	PREPARED SPACE	-	1	-	100	- - -	
34	PREPARED SPACE	-	1	-	100	- - -	
35	PREPARED SPACE	-	1	-	100	- - -	
36	PREPARED SPACE	-	1	-	100	- - -	
37	PREPARED SPACE	-	1	-	100	- - -	
38	PREPARED SPACE	-	1	-	100	- - -	
39	PREPARED SPACE	-	1	-	100	- - -	
40	PREPARED SPACE	-	1	-	100	- - -	
41	PREPARED SPACE	-	1	-	100	- - -	
42	PREPARED SPACE	-	1	-	100	- - -	
TOTAL KVA:		7.48					

"B" - PROVIDE LOCK-OUT

PANELBOARD PP2		Class: Type:		Short Circuit Rating (Min.): 22 KAIC Remark:				
SERVICE		120/240 Volts 1 Phase 3 Wire			S/E Label: NO			
PANELBOARD CONFIGURATION		225 AMPERE MAIN BUS (COPPER) Trim: SURFACE			Entrance: TOP/BOTTOM Equipment Ground Bus: YES			
MAIN		Type: MLO Wire Size: SEE RISER DIAGRAM			Enclosure: NEMA 1			
BRANCH CIRCUITS		Branch Protective Devices: (MOLDED CASE CIRCUIT BREAKERS)						
Circ No	Circuit Designation		KVA Load	Pole	Trip Amps	Frame Amps	Wire (min.)	See Remark
1	EXISTING		-	2	15	100	REROUTE/MODIFY/EXTEND EXISTING	
2	EXISTING		-	1	15	100	REROUTE/MODIFY/EXTEND EXISTING	
3	- - -		-	-	-	-	- - -	
4	EXISTING		-	1	15	100	REROUTE/MODIFY/EXTEND EXISTING	
5	EXISTING		-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING	
6	EXISTING		-	2	20	100	REROUTE/MODIFY/EXTEND EXISTING	
7	EXISTING		-	1	20	100	REROUTE/MODIFY/EXTEND EXISTING	
8	- - -		-	-	-	-	- - -	
9	EXISTING		-	1	15	100	REROUTE/MODIFY/EXTEND EXISTING	
10	EXISTING		-	1	15	100	REROUTE/MODIFY/EXTEND EXISTING	
11	EXISTING		-	1	15	100	REROUTE/MODIFY/EXTEND EXISTING	
12	EXISTING		-	1	15	100	REROUTE/MODIFY/EXTEND EXISTING	
13	EXISTING		-	1	15	100	REROUTE/MODIFY/EXTEND EXISTING	
14	EXISTING		-	1	15	100	REROUTE/MODIFY/EXTEND EXISTING	
15	EXISTING		-	2	15	100	REROUTE/MODIFY/EXTEND EXISTING	
16	EXISTING		-	1	15	100	REROUTE/MODIFY/EXTEND EXISTING	
17	- - -		-	-	-	-	- - -	
18	CIRC PUMP P-1		1.01	2	15	100	3/4"C, 2-#12 AWG + #12 GND	'A'
19	CIRC PUMP P-2		1.01	2	15	100	3/4"C, 2-#12 AWG + #12 GND	'A'
20	- - -		-	-	-	-	- - -	
21	- - -		-	-	-	-	- - -	
22	CIRC PUMP P-1A		1.01	2	15	100	3/4"C, 2-#12 AWG + #12 GND	'A'
23	CIRC PUMP P-2A		1.01	2	15	100	3/4"C, 2-#12 AWG + #12 GND	'A'
24	- - -		-	-	-	-	- - -	
25	- - -		-	-	-	-	- - -	
26	BOILER #1 CIRC CP-1		0.58	2	15	100	3/4"C, 2-#12 AWG + #12 GND	
27	BOILER #2 CIRC CP-2		0.58	2	15	100	3/4"C, 2-#12 AWG + #12 GND	'U'
28	- - -		-	-	-	-	- - -	
29	- - -		-	-	-	-	- - -	
30	BOILER #1		0.80	1	20	100	3/4"C, 2-#12 AWG + #12 GND	
31	BOILER #2		0.80	1	20	100	3/4"C, 2-#12 AWG + #12 GND	'U'
32	PUMP P-4 (IWH)		0.20	1	15	100	3/4"C, 2-#12 AWG + #12 GND	
33	BAS MAIN PANEL - BOILER RM		0.71	1	20	100	3/4"C, 2-#12 AWG + #12 GND	
34	BAS BOILER PANEL - BOILER RM		0.71	1	20	100	3/4"C, 2-#12 AWG + #12 GND	
35	VRF CONTROL PANEL - BOILER RM		0.09	1	20	100	3/4"C, 2-#12 AWG + #12 GND	
36	ERV-1 - BOILER RM		1.44	2	15	100	3/4"C, 2-#12 AWG + #12 GND	
37	UH-1 / P-3 - BOILER ROOM		0.34	1	15	100	3/4"C, 2-#12 AWG + #12 GND	
38	- - -		-	-	-	-	- - -	
39	PREPARED SPACE		-	1	-	100	- - -	
40	PREPARED SPACE		-	1	-	100	- - -	
41	PREPARED SPACE		-	1	-	100	- - -	
42	PREPARED SPACE		-	1	-	100	- - -	
TOTAL KVA:			-	-	-	-	-	

"A" - LEAD/LAG OPERATION

"D" - ADD ALTERNATE #1L WIRING, CONDUIT AND CIRCUIT BREAKER
SHALL BE PART OF ADD ALTERNATE #1. SPACE SHALL REMAIN
AS A PREPARED SPACE WITHIN PANELBOARD AS PART OF BASE BID.

PANELBOARD DP2	Class: Type:	Short Circuit Rating (Min.): 22 KAIC Remark:				
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CONTRACTOR SHALL CARRY AN ALLOWANCE OF \$15,000 AS PART OF THEIR BASE BID FOR EVERSOURCE CHARGES.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING TOOLS, MATERIAL, MANPOWER, ETC. REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT.
2. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY ALL LOCATIONS, QUANTITIES AND DIMENSIONS OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT WITHIN AND AFFECTING PROJECT SCOPE OF WORK.

3. ALL WORK SHALL BE PERFORMED IN A SAFE AND ORDERLY MANNER WITH QUALITY AND ACCORDANCE TO ALL APPLICABLE CODES AND STANDARDS, TYPICAL.
4. ALL WORK SHALL BE COORDINATED WITH THE EXISTING CONDITIONS, STRUCTURAL FRAMING ELEMENTS AND ALL OTHER PROJECT DISCUSSIONS, TYPICAL.
5. ALL WORK SHALL BE COMPLETED DURING ALL PHASES OF CONSTRUCTION. ALL WORK WILL BE PERFORMED CAUSING MINIMAL DISRUPTION TO THE FACILITY, CONTAIN AND CONTROL ALL DUST, DEBRIS AND NOISE. ALL WORK SHALL BE COMPLETED DAILY OPERATION OF BUILDING, KEEP EGRESS PATHS FREE AND CLEAR OF OBSTRUCTIONS.
6. ALL SERVICE DISRUPTIONS MUST BE SCHEDULED A MINIMUM OF 72 HOURS IN ADVANCE WITH THE OWNER'S REPRESENTATIVE.
7. CONTRACTOR SHALL NOT DAMAGE ANY EXISTING EQUIPMENT OR STRUCTURE. COORDINATE ALL WORK WITH THE REMAIN.
8. PROVIDE ALL REQUIRED PENETRATIONS, COORDINATE WITH EXISTING STRUCTURAL ELEMENTS, FIRE STOP ALL PENETRATIONS. TYPICAL.
9. EQUIPMENT, FURNITURE, FIXTURES, ACCESSORIES PER NEC AND MANUFACTURER'S REQUIREMENTS.

**SALAMONE
&
ASSOCIATES, P.C.**
CONSULTING ENGINEERS

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PROJECT TITLE

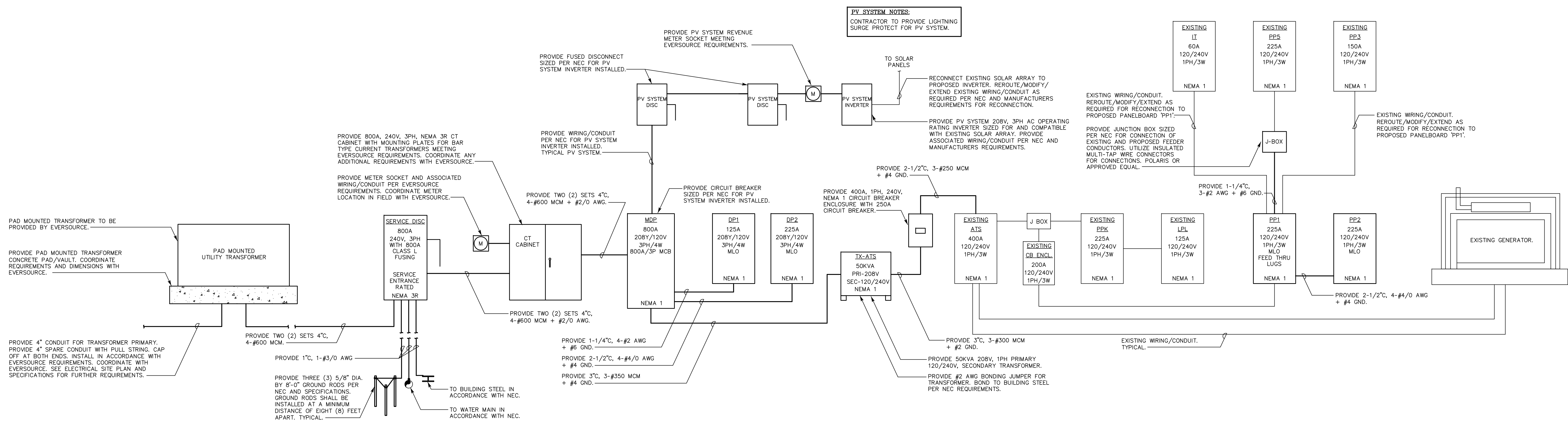
CONTRACT DOCUMENTS FOR
HVAC UPGRADES
AT
**COLEBROOK
CONSOLIDATED
SCHOOL**
STATE PROJECT #
CV 029-003 HVAC
COLEBROOK, CONNECTICUT

POWER RISER DIAGRAM

JOB NO.	3779.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	FB
DRAWN BY	CK
SCALE	AS NOTED
DATE	JANUARY 24, 2024

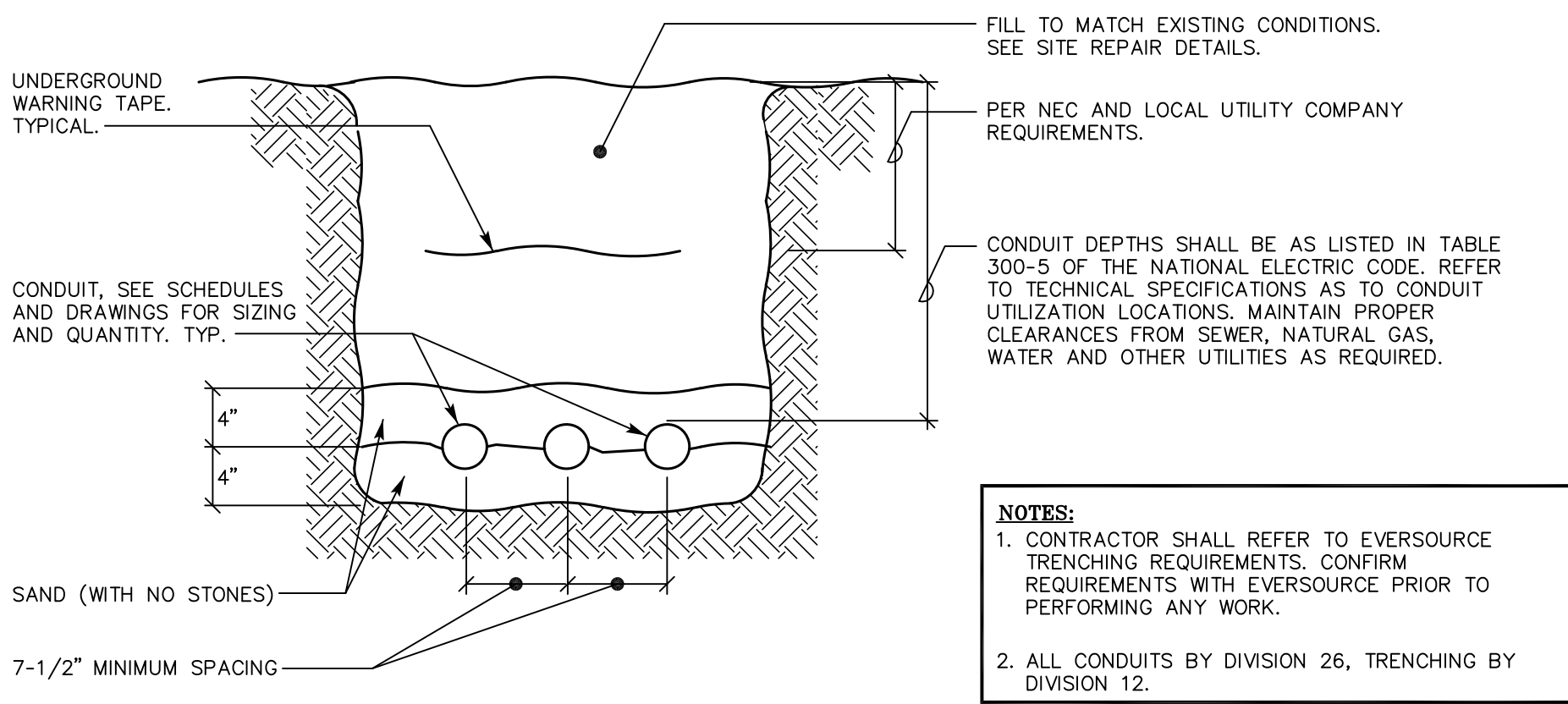
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E-5

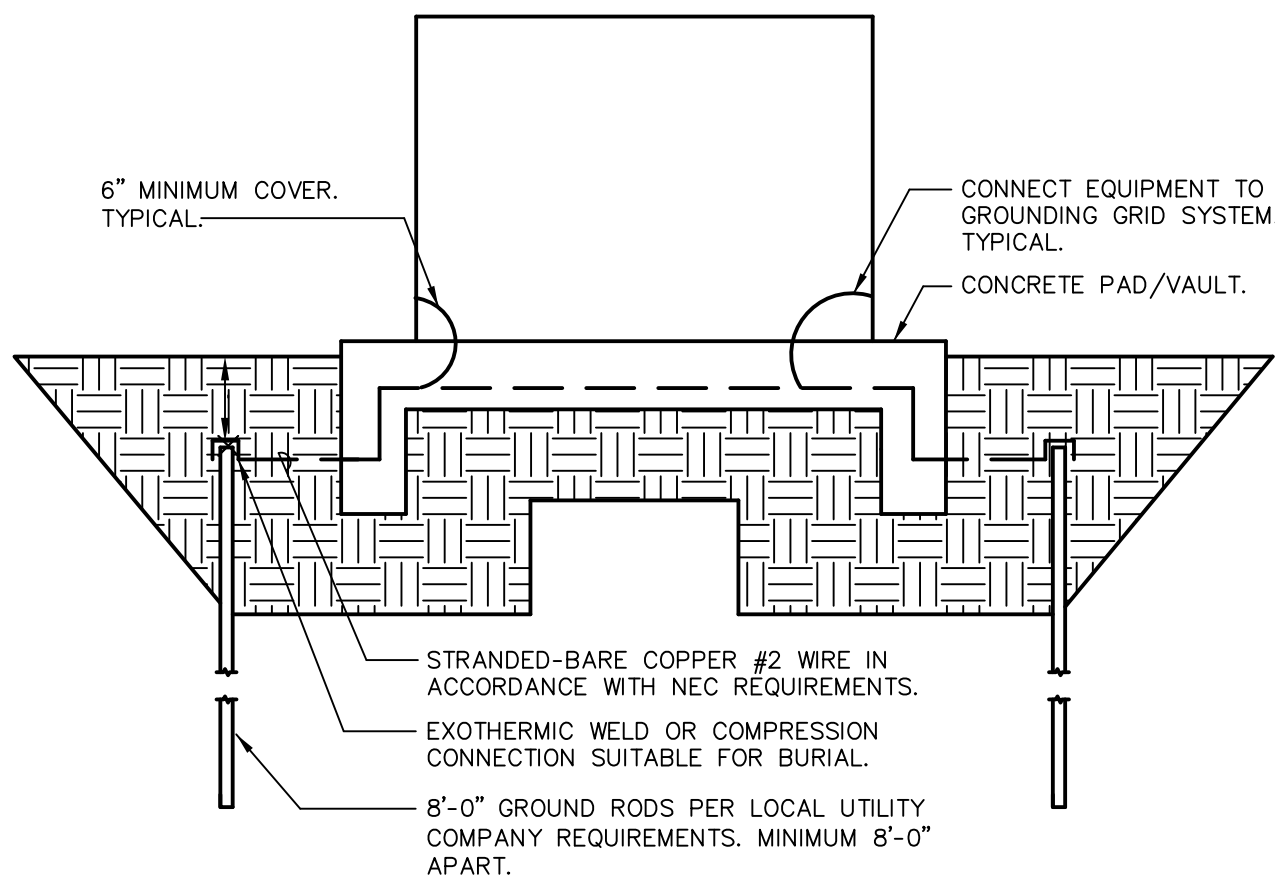


POWER RISER DIAGRAM

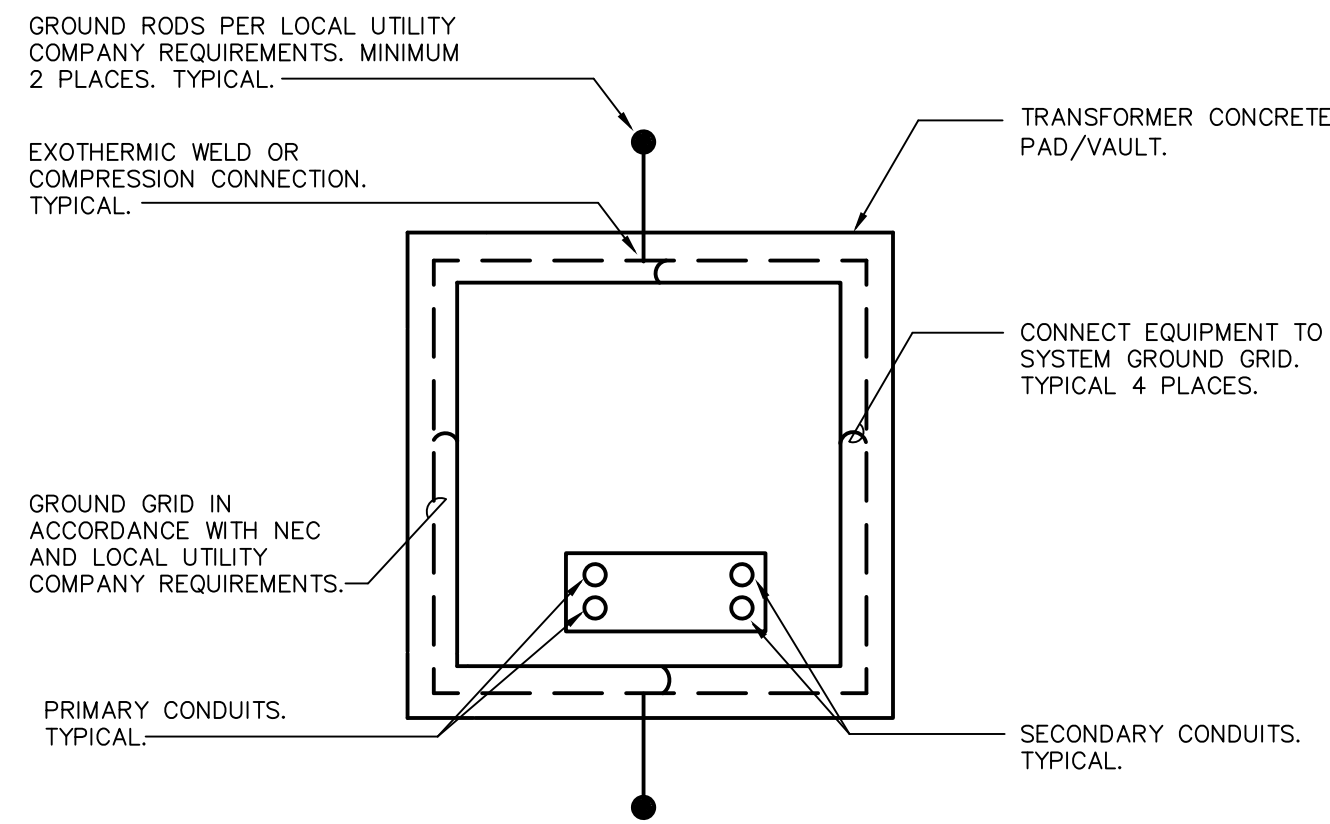
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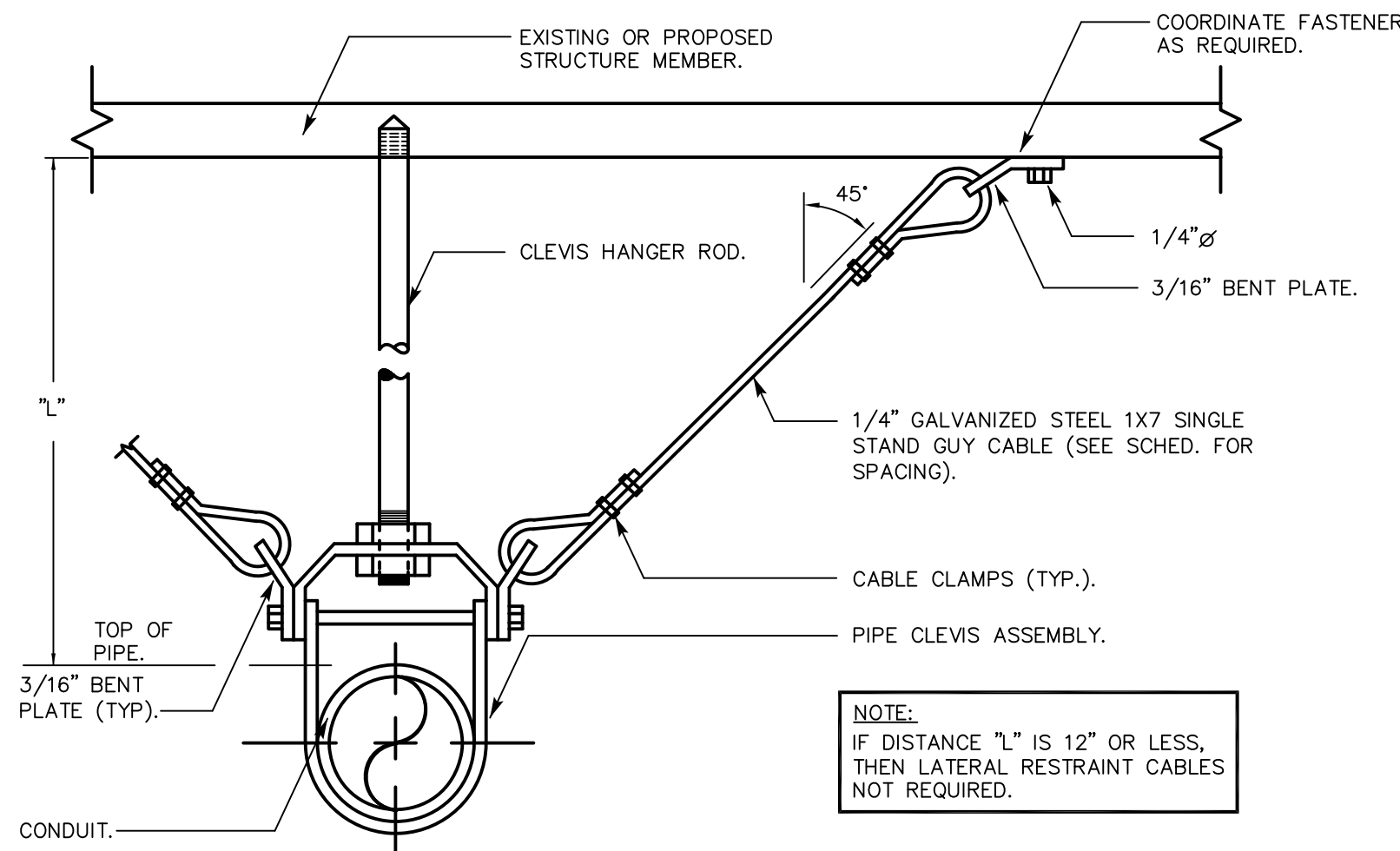
TYPICAL TRENCH DETAIL
SCALE: N.T.S.



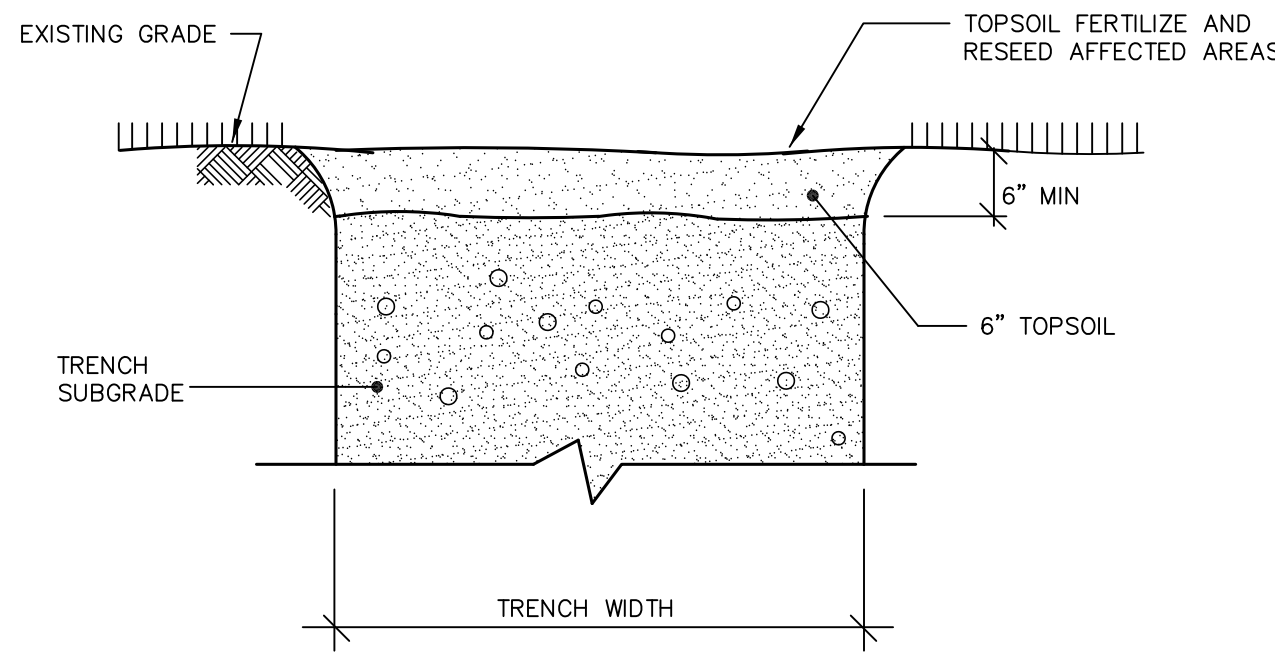
TRANSFORMER GROUNDING GRID ELEVATION DETAIL
SCALE: N.T.S.



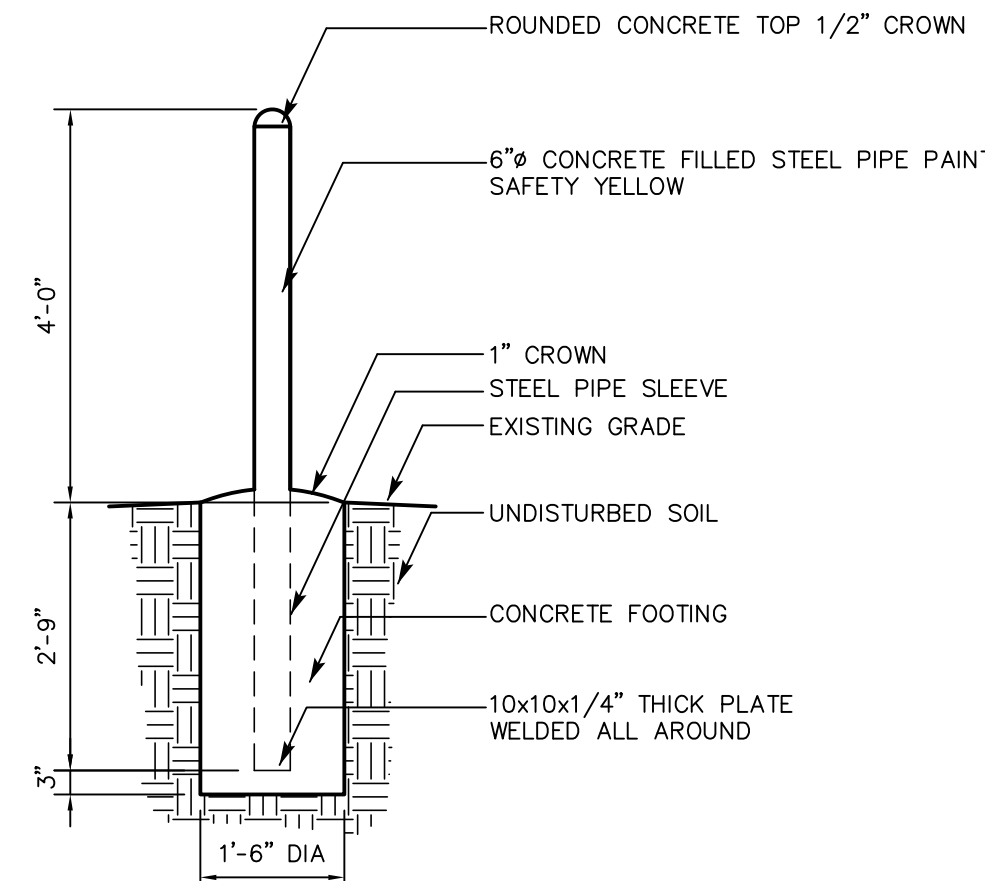
TRANSFORMER GROUNDING GRID PLAN VIEW
SCALE: N.T.S.



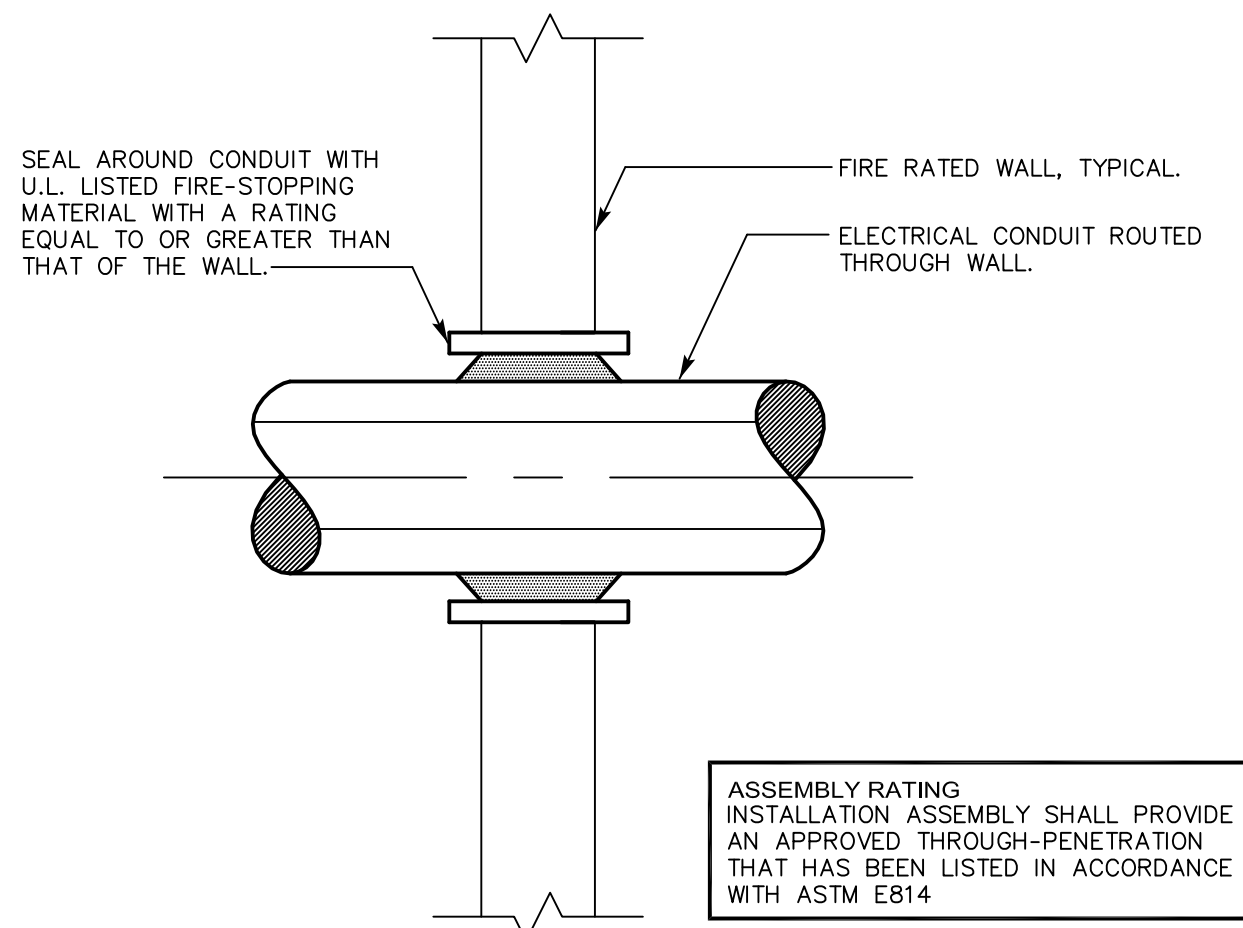
TYPICAL SEISMIC RESTRAINT ASSEMBLY OF SUSPENDED CONDUIT
SCALE: N.T.S.



GRASS AREA REPAIR DETAIL
SCALE: N.T.S.



TYPICAL STEEL BOLLARD DETAIL
SCALE: N.T.S.



TYPICAL CONDUIT WALL PENETRATION DETAIL (UL XHEX C-AJ-1008)
SCALE: N.T.S.

ELECTRICAL ABBREVIATIONS	
A	AMPERES
A.F.F.	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CIR	CIRCUIT
E	EMERGENCY
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
G	GROUND
HP	HORSEPOWER
KAIC	INTERRUPTING CAPACITY (KILOAMPERE)
KVA	KILOVOLT-AMPERE
KW	KILOWATT
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASS.
P	POLE
UL	UNDERWRITER'S LABORATORY
UTIL	UTILITY
V	VOLTS
VA	VOLT-AMPERES
W	WATTS
#	WIRE SIZE IN AWG, OR MCM WHEN INDICATED

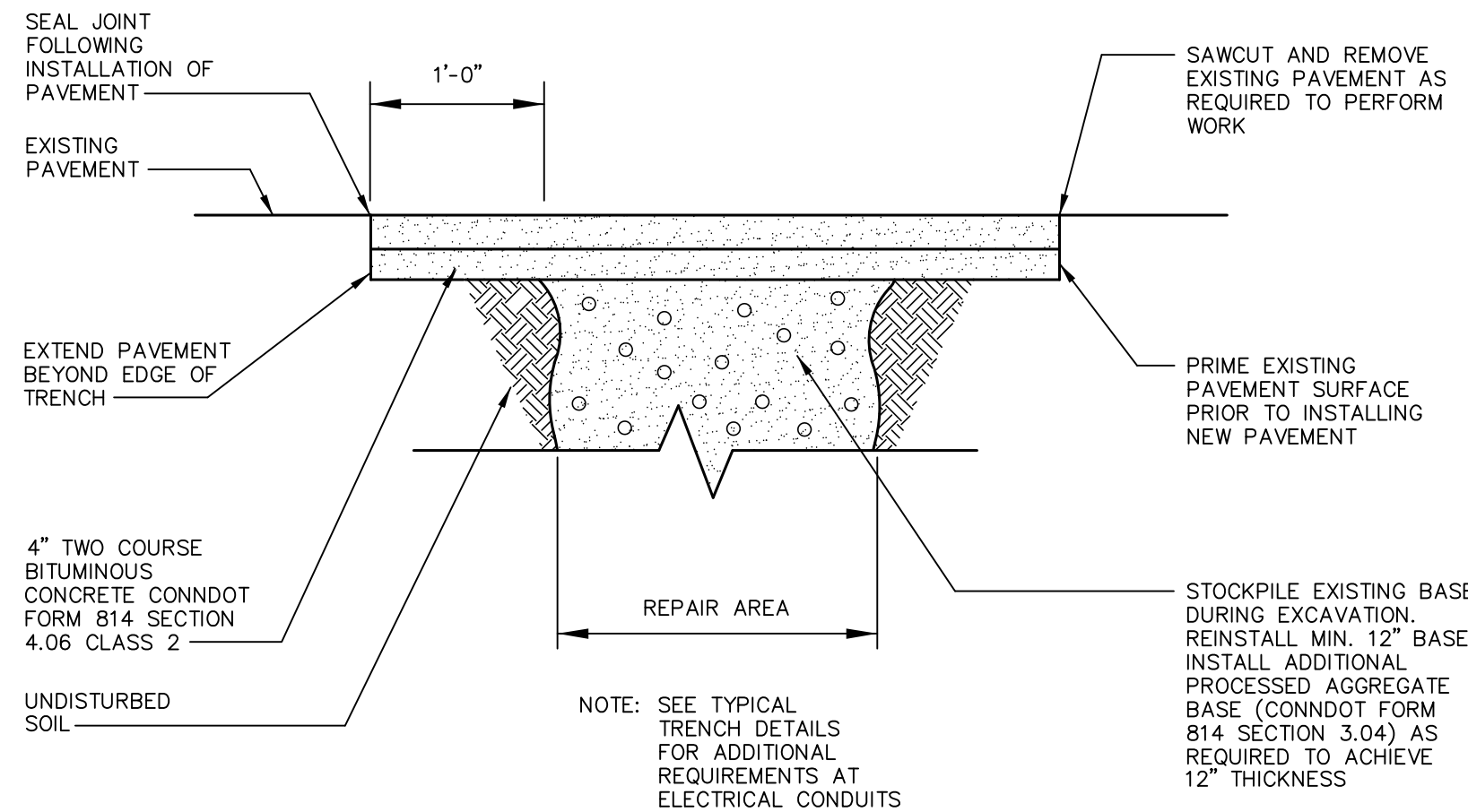
ELECTRICAL SYMBOL LIST	
	CEILING OR WALL MOUNTED EXIT SIGN WITH DIRECTIONAL ARROWS AS INDICATED ON PLANS
	EXIT SIGN SHADING INDICATES LIGHTED FACE
	DUPLEX OR QUADRUPLUX RECEPTACLE GFCI - GROUND FAULT CIRCUIT INTERRUPTER IG - ISOLATED GROUND WP - WEATHERPROOF L - LOCKABLE COVER
	AUTOMATIC DOOR OPENER
	CARD ACCESS READER
	SPECIAL PURPOSE CONNECTION
	SWITCH (NONE) - SINGLE POLE 2 - TWO POLE 3 - THREE WAY 4 - FOUR WAY D - DIMMER TOL - THERMAL OVERLOAD PROTECTION DEVICE K - KEYS K3 - KEYS 3 WAY LK - KEYS LOW VOLTAGE LK3 - KEYS 3 WAY LOW VOLTAGE OS - OCCUPANCY SENSOR
	DISCONNECT SWITCH
	CEILING MOUNTED OCCUPANCY SENSOR
	CEILING MOUNTED DAYLIGHT SENSOR
	BRANCH CIRCUIT HOMERUN (ARROWS INDICATE CIRCUIT NUMBERS)

WARNING

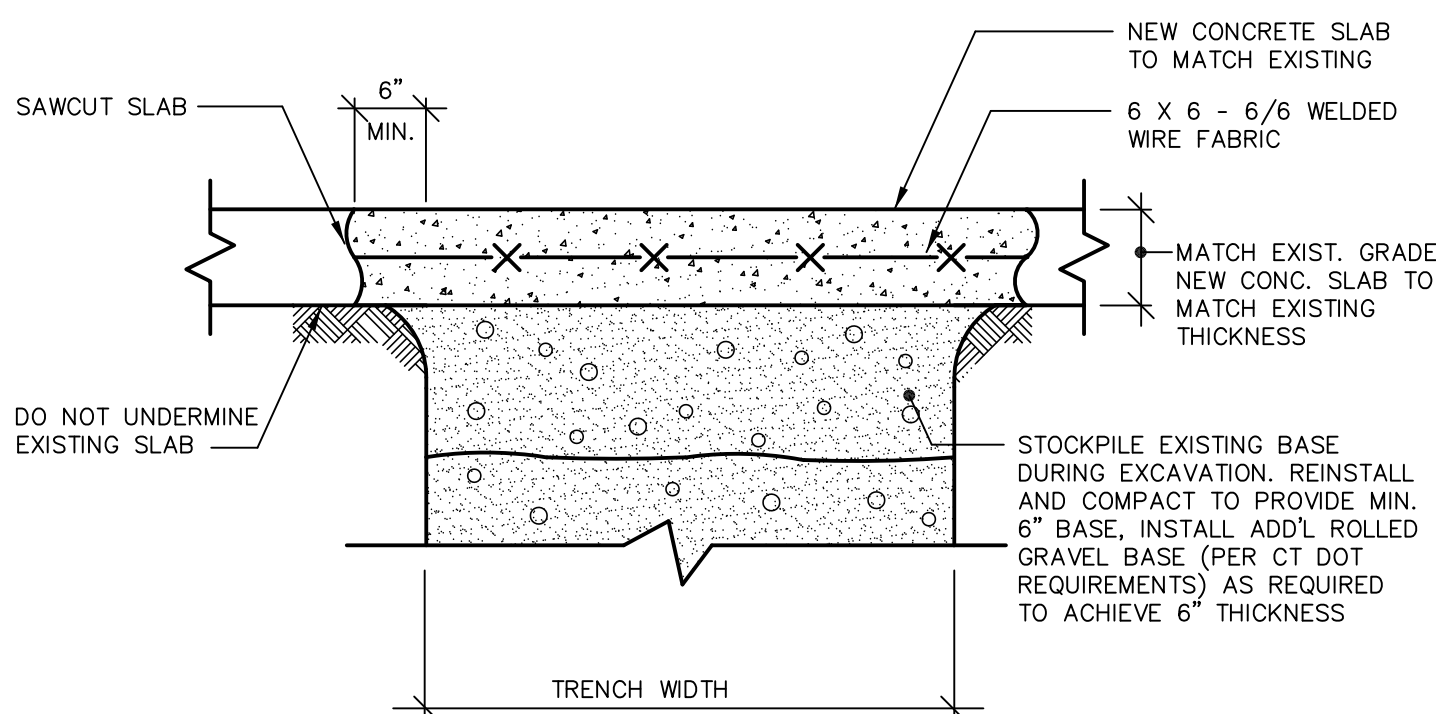
**"CALL BEFORE YOU DIG"
1-800-922-4455"**

"CONTRACTOR SHALL REGISTER HIS INTENTION TO START EXCAVATIONS AT OR NEAR A PUBLIC UTILITY AT LEAST TWO FULL WORKING DAYS PRIOR TO THE

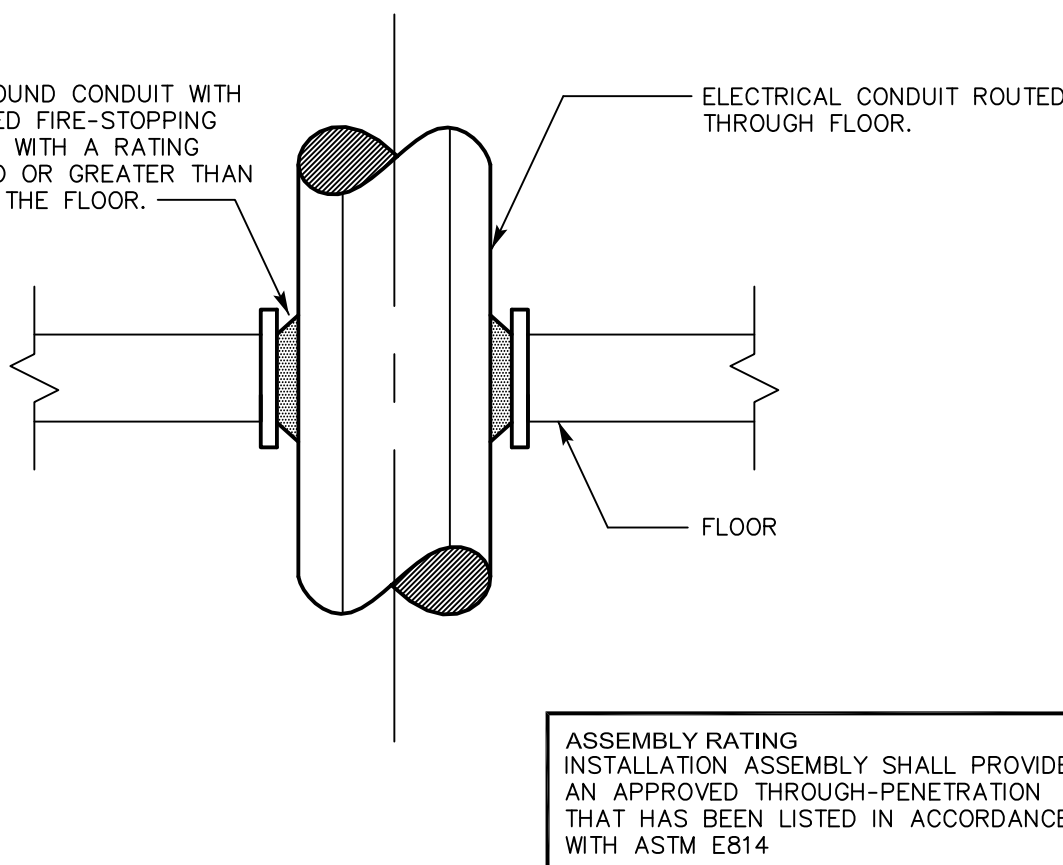
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND PAYMENT FOR ALL UTILITIES DAMAGED DURING CONSTRUCTION.
- THE LOCATION OF ALL UNDERGROUND UTILITIES IS BASED UPON THE BEST AVAILABLE INFORMATION. CONTRACTOR TO CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
- CONTRACTOR TO RETURN SITE TO ORIGINAL CONDITION AFTER INSTALLATION OF UNDERGROUND UTILITIES.



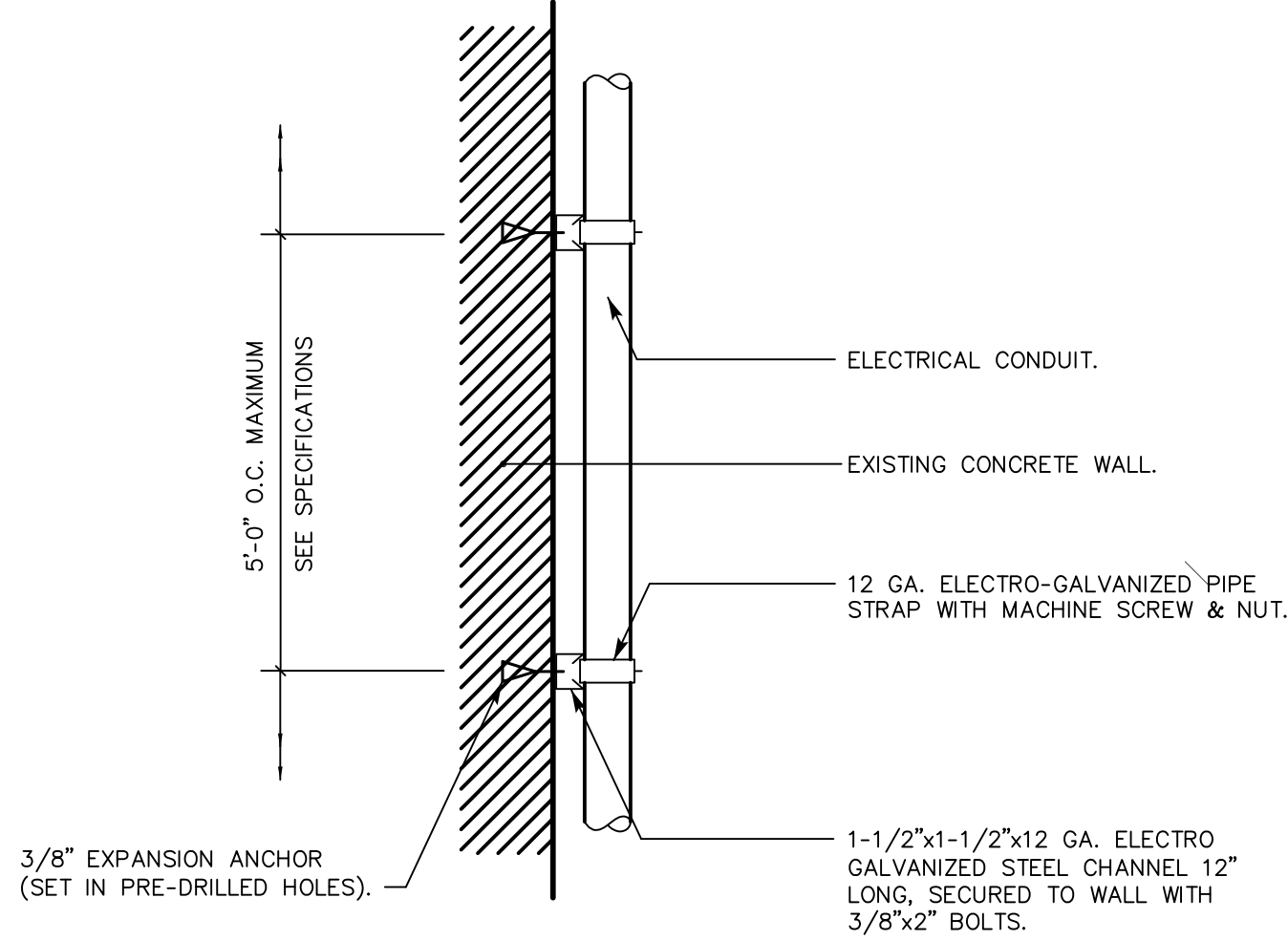
TYPICAL BITUMINOUS PAVEMENT REPAIR DETAIL
SCALE: N.T.S.



CONCRETE SLAB REPAIR
SCALE: N.T.S.



TYPICAL CONDUIT FLOOR PENETRATION DETAIL (UL XHEX C-AJ-1008)
SCALE: N.T.S.



TYPICAL VERTICAL CONDUIT SUPPORT DETAIL
SCALE: N.T.S.

- ### ELECTRICAL GENERAL NOTES
- SEE SPECIFICATIONS, DIVISION 26 ELECTRICAL.
 - PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR AND EQUIPMENT.
 - ELECTRICAL PLANS AND DETAILS AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL CONDUIT BODIES, CONNECTORS, BENDS, FITTINGS, HANGERS AND ADDITIONAL PULL AND JUNCTION BOXES.
 - PROVIDE MODIFICATIONS/ADDITIONS TO EXISTING FIRE ALARM SYSTEM.
 - ALL EQUIPMENT AND MATERIAL SHALL BE LABELED, LISTED AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
 - THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
 - ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
 - THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE 2020 EDITION OF THE NATIONAL ELECTRIC CODE (NEC) WITH CT AMENDMENTS.
 - THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS AND RELATED ATTACHMENTS)".
 - THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT COMPLETELY".
 - THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".
 - THE TERM "SPACE" ON PANELEBOARD AND SWITCHBOARD SCHEDULES SHALL MEAN "PROVIDE SPACE TO INSTALL THE NUMBER OF POLES AND SIZE OF THE PROTECTIVE DEVICE INDICATED WITH ALL NECESSARY BUS AND FITTINGS TO INSTALL THE DEVICE AT SOME FUTURE DATE".
 - ELECTRICAL PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCES AND CONDITIONS, VISIBLE AND/OR HIDDEN, THAT MAY EXIST; THUS REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK.
 - COORDINATE ELECTRICAL WORK WITH OWNER.
 - COORDINATE ELECTRICAL WORK WITH OTHER DIVISIONS OF THIS PROJECT.
 - TURN OVER TO THE OWNER ALL MANUFACTURERS WARRANTIES FOR EQUIPMENT AND MATERIAL PROVIDED.
 - UNLESS OTHERWISE INDICATED, ALL ELECTRICAL EQUIPMENT HAS BEEN BASED ON SQUARE D PRODUCTS.
 - THE CONTRACTOR MAY SUBSTITUTE EQUIPMENT OF ANOTHER MANUFACTURER IF IT IS OF EQUAL QUALITY AND RATING, SUBJECT TO OWNER'S AND ENGINEER'S REVIEW AND ACCEPTANCE.
 - UNLESS OTHERWISE INDICATED, ALL ENCLOSURES FOR EQUIPMENT PROVIDED SHALL BE NEMA TYPE 1.
 - UNLESS OTHERWISE INDICATED, ALL CONDUCTORS TO BE COPPER THHN/THWN-2.
 - UNLESS OTHERWISE INDICATED, ALL OUTLET AND SWITCH BOXES TO BE CAST IRON WITH THREADED HUBS.
 - IN INTERIOR PROTECTED LOCATIONS, OUTLET AND SWITCH BOXES MAY BE STEEL.
 - UNLESS OTHERWISE INDICATED, PROVIDE HEAVY-DUTY GRADE, 20 AMPERE RECEPTACLES AND SWITCHES. ALL PLATES IN FINISHED AREAS TO BE BRUSHED STAINLESS STEEL. PLATES FOR SURFACE MOUNTED INTERIOR BOXES MAY BE STAMPED STEEL PLATES EXPOSED TO WEATHER OR WATER TO BE GASKETED, WEATHERPROOF TYPE, COLOR BY ARCHITECT.
 - BEFORE SELECTING MATERIAL AND EQUIPMENT, AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
 - BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS, INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
 - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) AND NFPA 70.
 - THE MEASUREMENT FROM ABOVE FINISHED FLOOR (AFF) SHALL BE TAKEN FROM THE FINISHED FLOOR SURFACE TO THE TOP OF WALL RECEPTACLES AND SWITCH BOXES, TO THE CENTER LINE OF WALL LIGHTING OUTLET BOXES, TO THE TOP OF WALL MOUNTED EQUIPMENT ENCLOSURES, TO THE CENTER LINE OF THE TOP MOST SWITCH HANDLE, OR TO THE LOWEST SURFACE OF CEILING LIGHTING FIXTURES OTHER CEILING MOUNTED EQUIPMENT.
 - UNLESS OTHERWISE INDICATED, ALL CONDUCTORS ARE NO. 12 AWG.
 - CONDUIT SIZE FOR INDICATED CONDUCTORS SHALL BE BASED ON CHAPTER 9 THE NEC.
 - THE CONTRACTOR MAY GROUP BRANCH CIRCUIT HOME RUN CONDUCTORS IN A SINGLE RACERWAY IN ACCORDANCE WITH THE NEC.
 - ALL BLANK COVER PLATES TO BE STAINLESS STEEL.
 - REFER TO ARCHITECTURAL DRAWINGS FOR WALL SWITCH BOXES AND RECEPTACLE MOUNTING HEIGHTS.
 - PROVIDE ELECTRICAL WIRING AND CONDUIT TO ALL APPLIANCES AND MECHANICAL EQUIPMENT/SYSTEMS.
 - ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT AND MATERIALS PROVIDED TO BE TURNED OVER TO THE OWNER.

REVISIONS		

CONSULTANT:

SALAMONE & ASSOCIATES, P.C.
CONSULTING ENGINEERS
116 North Plains Industrial Road
Wallingford, Connecticut 06492
Phone: (203) 281-6895 Fax: (203) 287-8728

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NOTES:

PROJECT TITLE

CONTRACT DOCUMENTS FOR
HVAC UPGRADES
AT
COLEBROOK CONSOLIDATED SCHOOL
STATE PROJECT #
CV 09-003 HVAC
COLEBROOK, CONNECTICUT

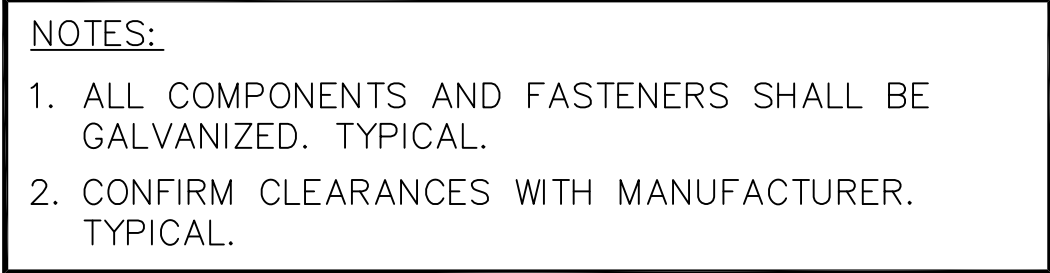
DRAWING TITLE

ELECTRICAL SYMBOLS, NOTES, DETAILS AND ABBREVIATIONS

JOB NO.	3779-01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	FB
DRAWN BY	CK
SCALE	AS NOTED
DATE	JANUARY 24, 2024

SEAL:

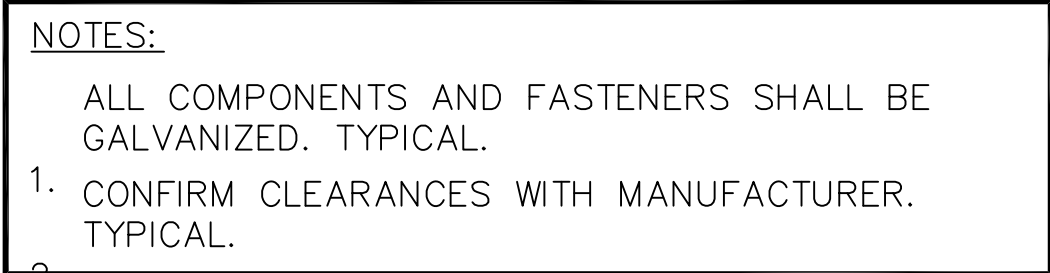
DRAWING NO.



SCALE: N.T.S



SCALE: N.T.S.



SCALE: N.T.S

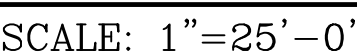
1. CONTRACTOR SHALL CARRY AN ALLOWANCE OF \$15,000 AS PART OF THEIR BASE BID FOR EVERSOURCE CHARGES.

1. CONTRACTOR SHALL HAND DIG TRENCH AROUND AREAS OF EXISTING UNDERGROUND PIPING, CONDUITS, ETC.
2. REFER TO DRAWING E-6 FOR TRENCHING DETAIL AS WELL AS BITUMINOUS PAVEMENT, CONCRETE AND GRASS REPAIR DETAILS.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING TOOLS, MATERIAL, MANPOWER, ETC. REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT.
2. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY ALL LOCATIONS, QUANTITIES AND DIMENSIONS OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT WITHIN AND AFFECTING PROJECT SCOPE OF WORK.
3. ALL WORK SHALL BE PERFORMED IN A SAFE AND ORDERLY MANNER WITH QUALIFIED AND LICENSED PERSONNEL IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES AND ALL APPLICABLE CODES AND STANDARDS. TYPICAL.
4. ROUTING OF ALL CONDUIT SHALL BE COORDINATED WITH EXISTING CONDITIONS, STRUCTURAL FRAMING ELEMENTS AND ALL OTHER PROJECT DISCIPLINES. TYPICAL.
5. BUILDINGS WILL BE OCCUPIED DURING ALL PHASES OF CONSTRUCTION. ALL WORK WILL BE PERFORMED CAUSING MINIMAL DISRUPTION TO THE FACILITY. CONTAIN AND CONTROL CONSTRUCTION DEBRIS SO AS NOT TO INTERFERE WITH DAILY OPERATION OF BUILDING. KEEP EGRESS PATHS FREE AND CLEAR OF ANY OBSTRUCTIONS.
7. ALL SERVICE DISRUPTIONS MUST BE SCHEDULED A MINIMUM OF 72 HOURS IN ADVANCE WITH THE OWNER'S REPRESENTATIVE.
8. CONTRACTOR SHALL NOT DAMAGE ANY EXISTING EQUIPMENT, PIPING, OR ASSOCIATED ACCESSORIES WHICH ARE TO REMAIN.
9. PROVIDE ALL REQUIRED PENETRATIONS. COORDINATE WITH EXISTING STRUCTURAL ELEMENTS. FIRE STOP ALL PENETRATIONS. TYPICAL.
10. INSTALL ALL EQUIPMENT AND ASSOCIATED ACCESSORIES PER NEC AND MANUFACTURER'S REQUIREMENTS.

**"CALL BEFORE YOU DIG"
1-800-922-4455"**

1. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND PAYMENT FOR ALL UTILITIES DAMAGED DURING CONSTRUCTION.
2. THE LOCATION OF ALL UNDERGROUND UTILITIES IS BASED UPON THE BEST AVAILABLE INFORMATION. CONTRACTOR TO CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
3. CONTRACTOR TO RETURN SITE TO ORIGINAL CONDITION AFTER INSTALLATION OF UNDERGROUND UTILITIES.



SITE ELECTRICAL PLAN

SCALE: 1"=25'-0"

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NOTES:

DRAWING NO.

SE-1