

MECHANICAL GENERAL NOTES

A. QUALITY OF WORK

- 1. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO OBTAIN A COMPLETE AND SATISFACTORY INSTALLATION. AN ATTEMPT HAS BEEN MADE TO SEPARATE AND DEFINE THE WORK OF THE CONTRACTOR. DRAWINGS ARE DIAGRAMMATIC, BUT MUST BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION OF THE FACILITY AND WORK OF OTHER TRADES WILL PERMIT. THE DRAWINGS UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS TO INDICATE VARIOUS ITEMS OF WORK. THEREFORE, NO INTERPRETATION WILL BE MADE FROM THE LIMITATION OF SYMBOLS AND DIAGRAMS THAT ANY ELEMENTS NECESSARY FOR THE COMPLETE INSTALLATION ARE EXCLUDED. THE ENGINEER IS TO BE NOTIFIED OF ANY DISCREPANCIES, OMISSIONS, CONFLICTS, OR INTERFERENCE WHICH OCCUR BETWEEN VARIOUS DRAWINGS AND SPECIFICATIONS. IF SUCH NOTIFICATION IS NOT RECEIVED, THE INSTALLING CONTRACTOR(S) IS TO BE RESPONSIBLE FOR THEIR INTERPRETATIONS.
- 2. "PROVIDE" MEANS "FURNISH AND INSTALL" AND MUST INCLUDE ALL EQUIPMENT (THAT INCLUDE THE ACCESSORIES, SUPPORTS, FITTINGS AND OTHER INCIDENTAL MATERIAL NEEDED FOR THE EQUIPMENT), DEVICES, HARDWARE, MOUNTS, LABOR, RIGGING, SUBCONTRACTS, ETC., THAT RESULT IN A COMPLETE AND FUNCTIONAL PROJECT INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE. MINOR ITEMS TO FINISH THE WORK SUCH AS PATCHING, BLOCKING, TRIM, TOUCH-UP PAINT, ETC., SHALL BE PROVIDED WHETHER OR NOT INDICATED IN THE CONTRACT
- LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS IN STRAIGHT SECTIONS OF PIPE OR DUCT AS RECOMMENDED BY THE MANUFACTURER. NOTIFY ENGINEER FOR FIELD REVIEW IF CONFIGURATION WILL NOT ALLOW.
- . WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER IS TO BE USED.
- 5. ALL WORKMANSHIP, MATERIALS, AND EQUIPMENT IS TO BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY THE OWNER.
- 6. PROVIDE IDENTIFICATION LABELS FOR NEW EQUIPMENT. AFFIX PERMANENT IDENTIFYING TAGS OR LABELS TO FANS, TERMINAL UNITS, AIR-HANDLERS ETC. IDENTIFY SYSTEM ON PIPING AND DUCTWORK MAINS AND INDICATE DIRECTION OF FLOW ON PIPING. INDICATE THE CONTROLLED EQUIPMENT ON WALL MOUNTED CONTROLS.

B. CODES/PERMITS

- 1. WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH STATE RECOGNIZED BUILDING CODES, NFPA, ASHRAE, UNDERWRITERS LABORATORIES AND ALL MUNICIPAL, STATE AND OTHER AUTHORITIES, PUBLIC AND PRIVATE, HAVING JURISDICTION. REPORT ALL DISCREPANCIES WITH SUCH REGULATIONS TO ENGINEER AND DO NOT PROCEED WITH ANY WORK UNTIL WRITTEN AUTHORIZATION IS RECEIVED FROM THE ENGINEER.
- 2. ALL NECESSARY FEES, PERMITS, AND APPROVALS AS REQUIRED BY THE WORK OF THESE DRAWINGS AND SPECIFICATIONS IS TO BE OBTAINED AND PAID FOR BY THIS CONTRACTOR.
- 3. NOTHING CONTAINED IN THE SPECIFICATIONS OR INDICATED ON THESE DRAWINGS IS TO BE CONSTRUED TO CONFLICT WITH APPLICABLE PORTIONS OF ANY LAWS, ORDINANCES, REGULATIONS, OR CODES.

C. COORDINATION OF WORK

- 1. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND ELECTRICAL WORK NEW OR EXISTING.
- 2. WHEN MECHANICAL WORK (HVAC, PLUMBING, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT IS TO BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT MUST BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION IS FINAL.
- 3. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS ARE APPROXIMATE AND NOT DEFINITELY FIXED BY DIMENSIONS. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS. CASES WHERE THERE ARE MAJOR CONFLICTS THE CONTRACTOR MUST NOTIFY THE ENGINEER FOR FIELD REVIEW. DO NOT SCALE THE DRAWINGS.
- 4. PROVIDE LOCATIONS OF REQUIRED ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS TO SERVICE VALVES, DAMPERS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. GENERAL CONTRACTOR IS TO FURNISH & INSTALL ACCESS PANELS.
- COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES INVOLVED. ALL OPENINGS IN FIRE WALLS, FLOORS AND RATED PARTITIONS FOR PIPING, CONDUIT, ETC., ARE TO BE FIRE STOPPED WITH A UL APPROVED SYSTEM.

D. <u>PIPING</u>

1. SEE PIPING PLAN SHEETS FOR PIPING GENERAL NOTES

E. <u>DUCTWORK</u>

SEE DUCTWORK PLANS SHEETS FOR DUCTWORK GENERAL NOTES.

F. TESTING, ADJUSTING, AND BALANCING

- 1. WORK IS TO BE PERFORMED BY AN INDEPENDENT TESTING AND BALANCING AGENCY SPECIALIZING IN TESTING, ADJUSTING, AND BALANCING OF HEATING, VENTILATION, AND COOLING SYSTEMS. TESTING AND BALANCING CONTRACTOR MUST BE AABC OR NEBB CERTIFIED.
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 2. TOLERANCE OF HYDRONIC SYSTEMS: ADJUST FLUID FLOW RATES AT BALANCE VALVES AND ALL EQUIPMENT TO PLUS/MINUS 10% OF DESIGN FLOW RATES.
- 3. TOLERANCE OF AIR SYSTEMS: ADJUST AIR FLOW RATES AT AIR HANDLING UNITS TO PLUS/MINUS 5% OF DESIGN FOR SUPPLY SYSTEMS AND PLUS/MINUS 10% OF DESIGN FOR RETURN AND EXHAUST SYSTEMS. ADJUST AIR FLOW RATES AT AIR INLETS AND OUTLETS TO PLUS/MINUS 10% OF DESIGN TO THE SPACE. IN ALL CASES MAINTAIN REQUIRED FLOW OR SPACE PRESSURIZATION CRITERIA.
- 4. SCHEDULED EQUIPMENT IS TO BE BALANCED AND A PRELIMINARY REPORT SUBMITTED TO THE ENGINEER FOR REVIEW. PROVIDE ALLOWANCE FOR (2) RETURN TRIPS FOR ADDITIONAL REBALANCE WORK AFTER ENGINEER REVIEW OF INITIAL REPORTS. PROVIDE THE FINAL REPORT TO ENGINEER.

G. WARRANTY

- 1. GUARANTEE ALL WORK PERFORMED AND MATERIALS AND EQUIPMENT INSTALLED TO THE FULL EXTENT REQUIRED BY THE DRAWINGS AND SPECIFICATIONS TO BE FREE FROM INHERENT DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF
- FINAL ACCEPTANCE.

 2. REPLACE ANY MATERIAL AND EQUIPMENT PRIOR TO THE FINAL ACCEPTANCE WHICH IS CORRODED OR OTHERWISE DAMAGED THROUGH THE MECHANICAL CONTRACTOR'S FAILURE TO PROPERLY OPERATE AND MAINTAIN THE INSTALLATION DURING CONSTRUCTION OR RETESTING.
- 3. KEEP THE WORK IN REPAIR AND REPLACE ANY DEFECTIVE MATERIALS, EQUIPMENT, OR WORKMANSHIP UPON NOTICE FROM THE ENGINEER OR OWNER'S REPRESENTATIVE FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.

H. <u>INSURANCE</u>

THE CONTRACTOR MUST, DURING THE LIFE OF THE CONTRACT, MAINTAIN IN FORCE, SUCH INSURANCE AS IS REQUIRED OF THE PRIME CONTRACTOR IN THE GENERAL CONDITIONS OF THE CONTRACT; AND IS TO FURNISH THE PRIME CONTRACTOR AND THE OWNER WITH CERTIFICATION OF SUCH INSURANCE BEFORE BEGINNING WORK ON THIS SECTION OF CONTRACT.

I. DOCUMENTATION

1. PROVIDE AN ENTIRE SET OF PROJECT CLOSE-OUT DOCUMENTS TO OWNER PER CONTRACT DOCUMENTS. PACKAGE MUST CONTAIN ENTIRE 0&M MANUALS WITH PROJECT SUBMITTALS AND SUBMITTAL COMMENTS, TAB REPORTS, TEST REPORTS, AND RECORD DRAWINGS, PLUS ADMINISTRATIVE DOCUMENTS.

STUDIOS

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Building Services Divisions
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MEP/FP Engineers
603.444.6578
Project #530419

AL:

CITY OF CARIBOU, MAINE CARIBOU POLICE DEPARTMENT

PROJECT NUMBER: 21-000

SUBMISSION
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11.06.24

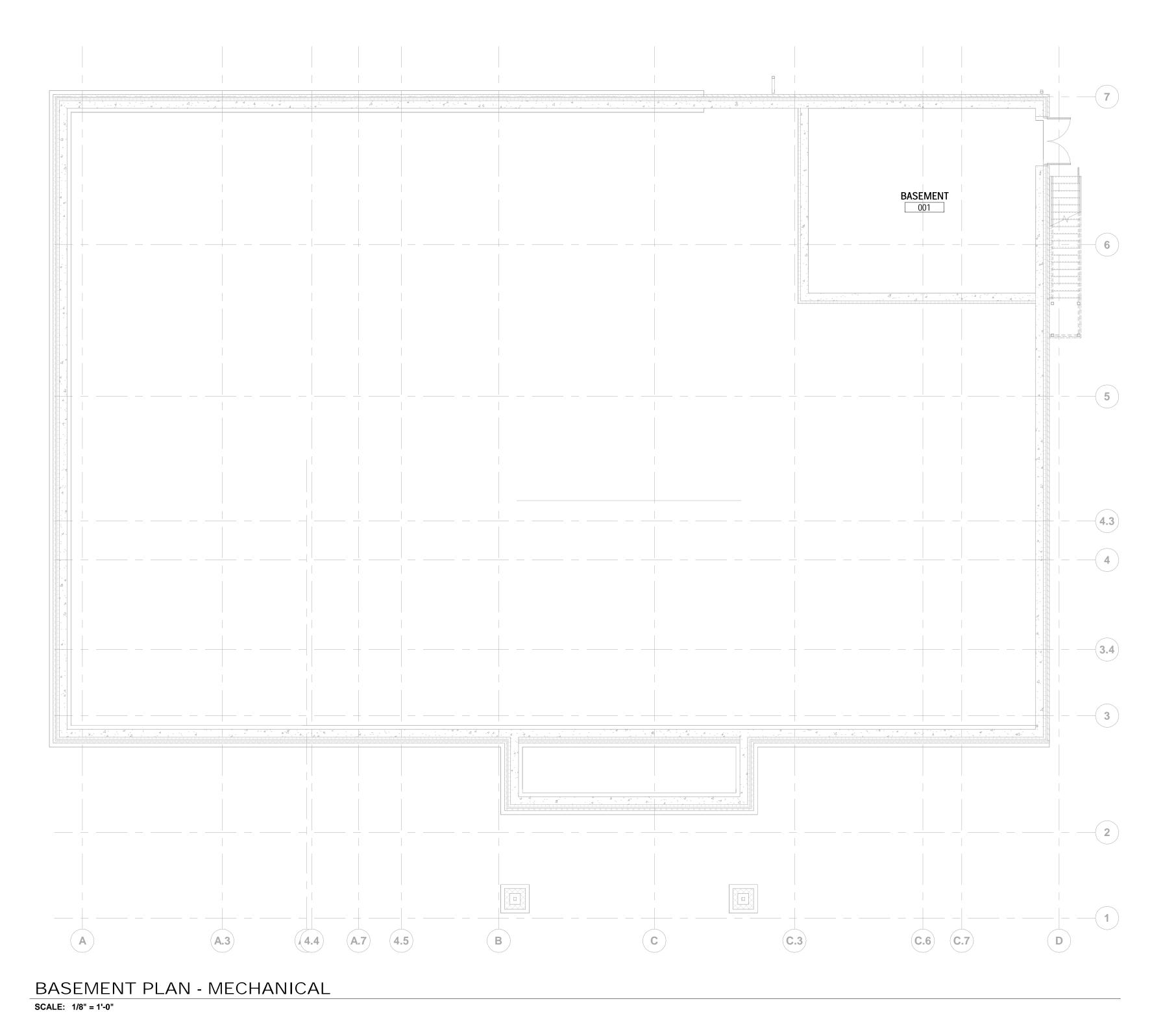
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LEGENDS & NOTES

MO 1

PRELIMINARY - NOT FOR CONSTRUCTION



ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MECHANICAL DUCTWORK NOTES

- . SEE SHEET MO.1 FOR MECHANICAL GENERAL NOTES. 2. FABRICATE DUCTWORK FROM FIELD VERIFIED DIMENSIONS. FABRICATE DUCTWORK IN ACCORDANCE WITH SMACNA GUIDELINES (LATEST EDITION). PRIOR TO FABRICATING DUCTWORK VERIFY CEILING CLEARANCES WITH STRUCTURE, PIPES, ETC. COORDINATE THE INSTALLATION OF DUCTWORK WITH SPRINKLER PIPING. INSTALL DUCTWORK PRIOR TO INSTALLING ANY PIPING AND ELECTRICAL WORK TO REDUCE CONFLICTS.
- . ALL DUCTWORK IS TO BE FABRICATED FROM G-90 GALVANIZED SHEET METAL IN LOCK-FORMING QUALITY,
- UNLESS SPECIFIED OTHERWISE. ALL DUCTWORK DIMENSIONS SHOWN ON PLANS ARE
- CLEAR INTERNAL SIZES. . ALL SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR DUCTWORK SHALL BE FABRICATED AT A MINIMUM CLASS OF 2 INCH WATER GAGE SEAL CLASS 'A'.
- 6. ALL DUCT SEALANT TO BE WATER BASED LOW VOC. '. ALL SUPPLY AND O/A DUCT WORK TO BE INSULATED TO MEET THE ENERGY CONSERVATION CODE ADOPTED BY THE STATE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 3. COORDINATE THE LOCATION OF CEILING AIR INLETS AND OUTLETS WITH LIGHTS, SPRINKLER HEADS, AND LIFE SAFETY DEVICES.
- PROVIDE ADJUSTABLE VOLUME DAMPERS AT ALL BRANCH DUCT TAKE OFFS. "RAP-IT" STYLE VOLUME DAMPERS AND HARDWARE IS NOT PERMITTED. FOR LOW FLOW BRANCHES, PROVIDE EDGE SEALED DAMPERS TO OBTAIN PROPER FLOW BALANCING.

MECHANICAL KEYNOTES



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BASEMENT PLAN - MECHANICAL

FIRST FLOOR PLAN - PIPING

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

MECHANICAL PIPING NOTES

- SEE SHEET MO.1 FOR MECHANICAL GENERAL NOTES.
 TAKE ALL NECESSARY MEASUREMENTS AT THE BUILDING AND FABRICATE THE PIPING ON THE SITE, IF REQUIRED, TO ENSURE AN APPROVED INSTALLATION.
- ENSURE AN APPROVED INSTALLATION.3. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB, WITH
- SPACE FOR INSULATION.
 4. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- 5. ALL PIPING IS TO CLEAR DOORS AND WINDOWS.6. COORDINATE ALL PIPING WITH EXISTING CONDITIONS.
- OFFSETS IN PIPING AROUND OBSTRUCTIONS ARE TO BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

 7. PIPING PENETRATIONS OF ALL WALLS AND FLOORS ARE TO BE SEALED WITH FIRE CAULK.
- 3. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE. ALL VALVES ARE TO BE ADJUSTED FOR SMOOTH AND EASY OPERATION. ALL VALVES ARE TO BE MARKED WITH A PERMANENT TAG INDICATING THE EQUIPMENT SERVED. PROVIDE A TYPED
- VALVE SCHEDULE TO BE KEPT IN OWNER IDENTIFIED AREA.

 9. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS ARE TO BE FULL SIZE OF PIPE. INSTALL VALVES AT ALL TAKEOFFS FROM THE MAIN AND PROVIDE EXTENDED STEMS TO CLEAR INSULATION.
- O. UNIONS AND/OR FLANGES ARE TO BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERNATION AND REPAIRS.
- 11. PROVIDE FLEXIBLE CONNECTION IN ALL PIPING SYSTEMS CONNECTED TO PUMPS, CHILLERS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION EXCEPT WATER COILS. FLEXIBLE CONNECTIONS ARE TO BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON DRAWINGS.

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FIRST FLOOR PLAN - PIPING

M1.1

FIRST FLOOR PLAN - DUCTWORK

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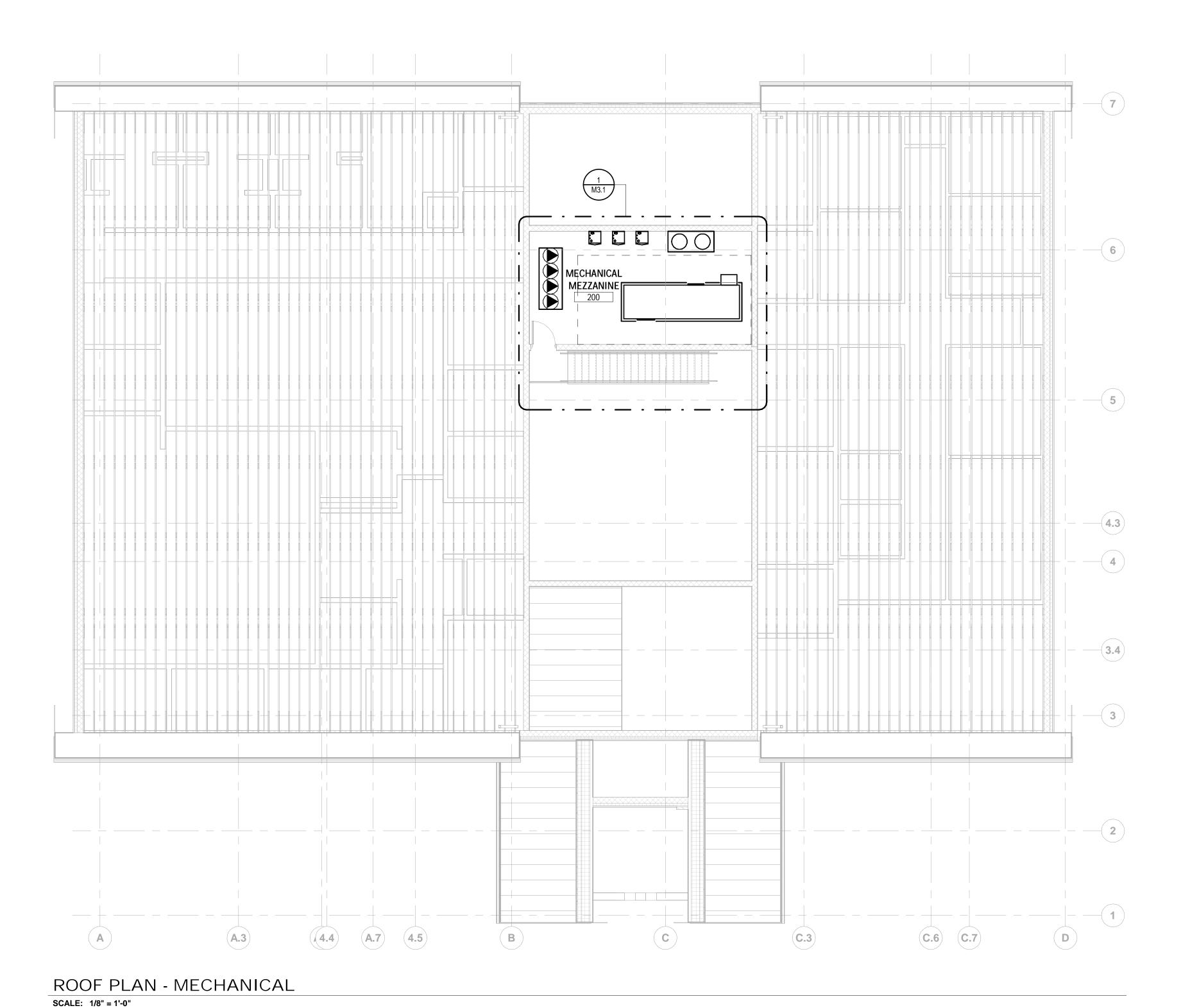
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FIRST FLOOR PLAN - DUCTWORK

SHEET

M1.2



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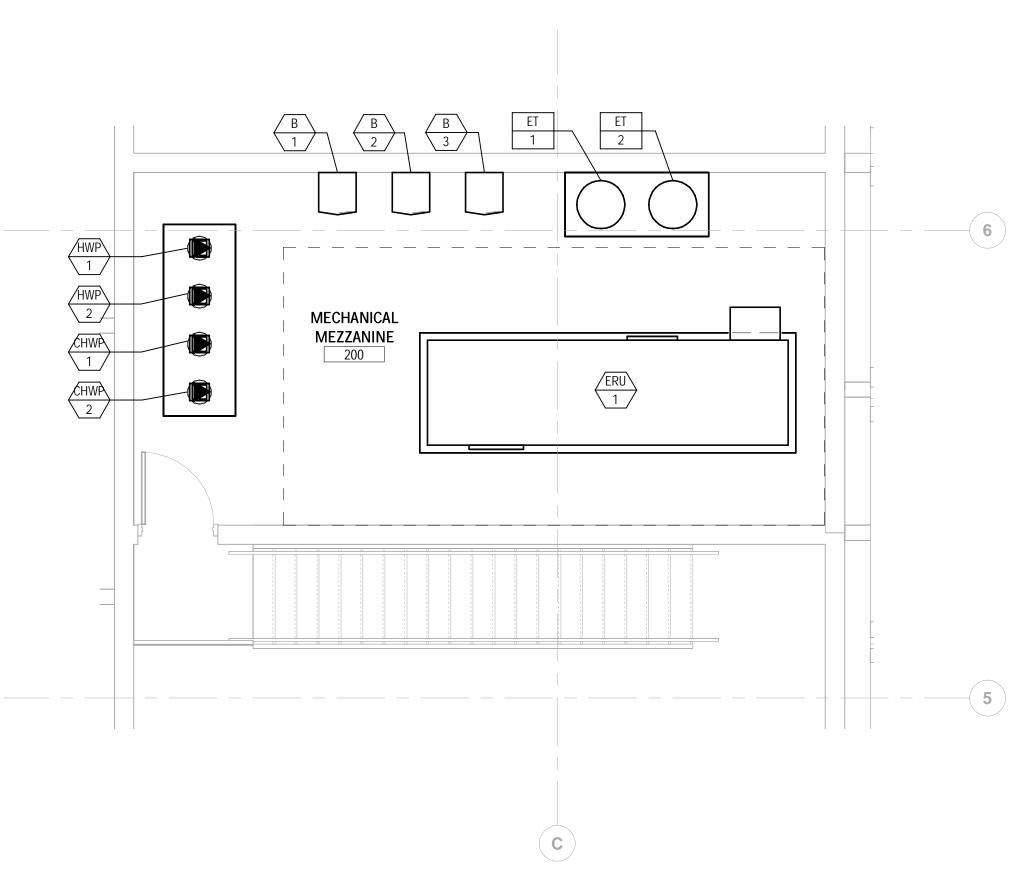
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ROOF PLAN - MECHANICAL

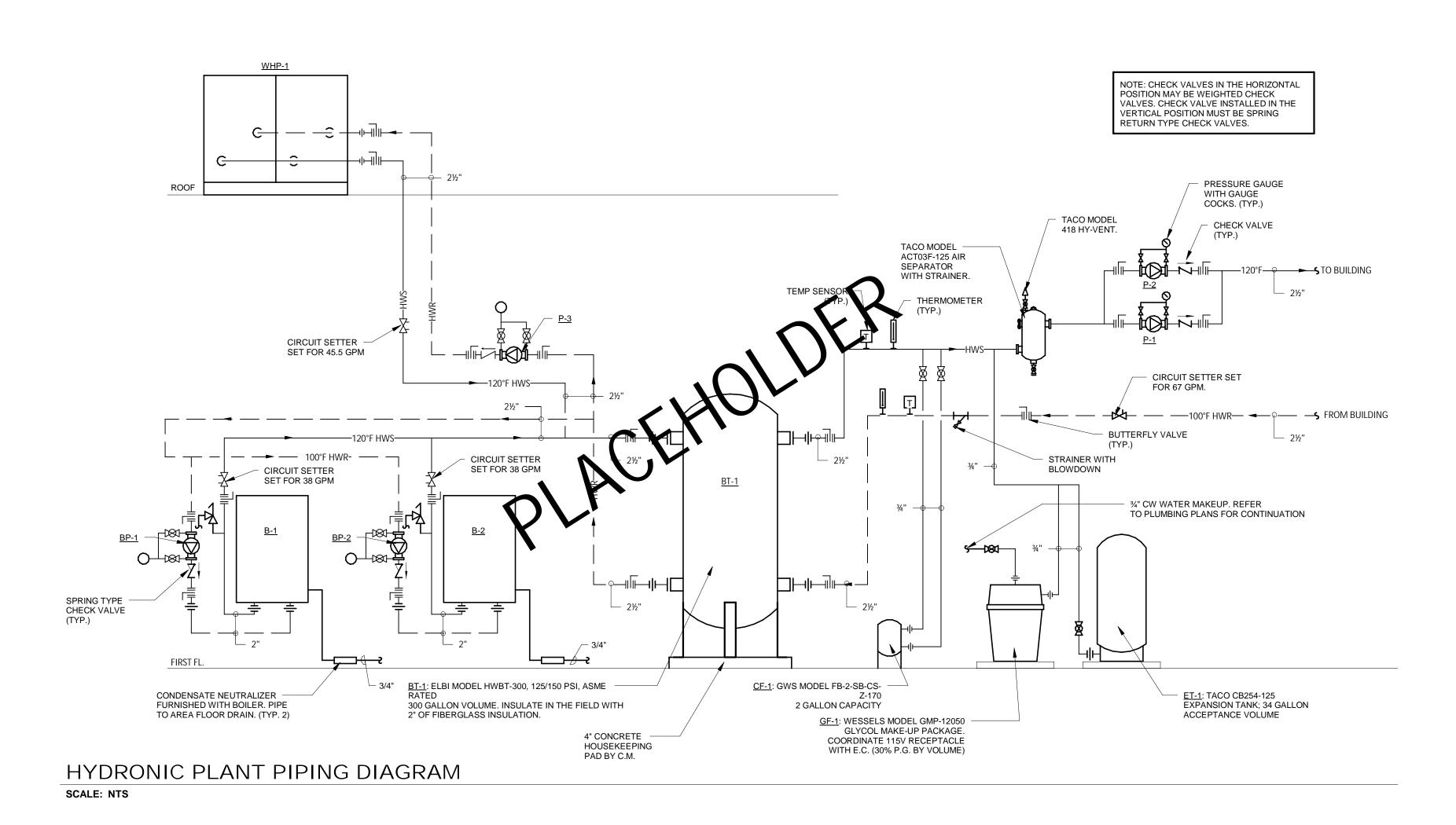
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M1.3



MECHANICAL MEZZANINE - ENLARGED PLAN

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



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ENLARGED PLANS

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M3.1

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RADIANT FLOOR ZONING PLAN

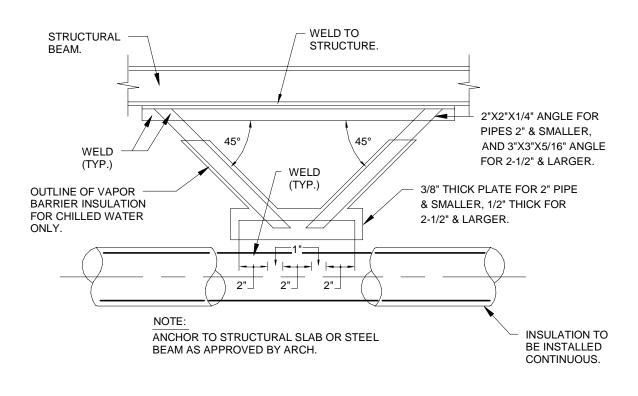
SHEET

M4.1

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

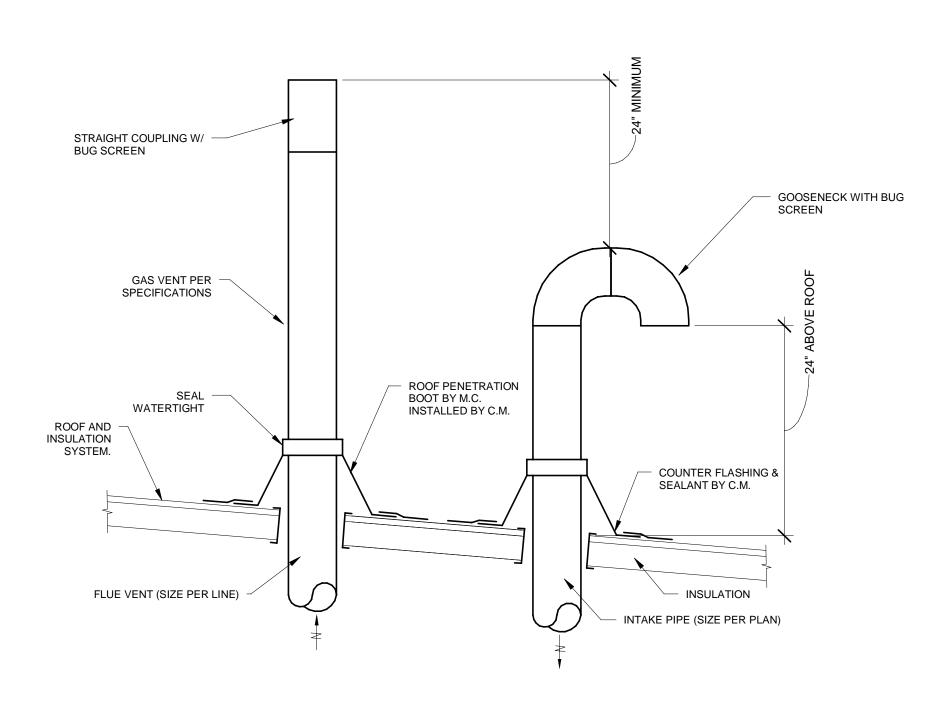
IN-LINE PUMP SUSPENDED INSTALLATION DETAIL

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



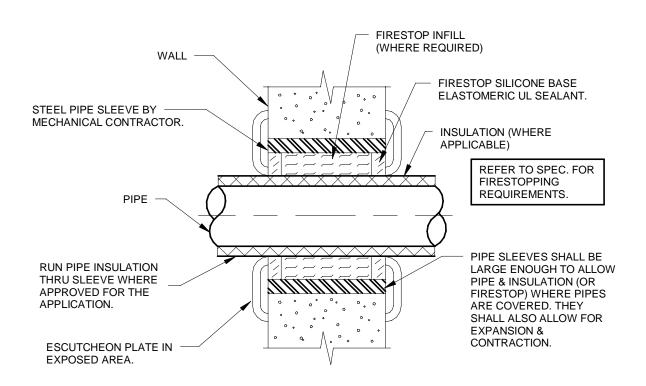
TYPICAL HORIZONTAL PIPE ANCHOR DETAIL

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



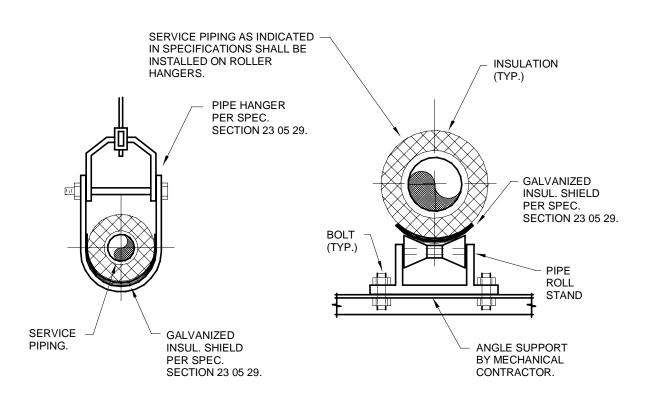
THRU-ROOF BOILER FLUE AND INTAKE DETAIL

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



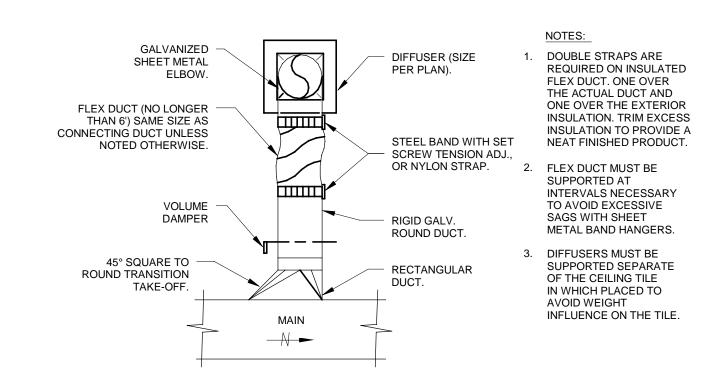
PIPE SLEEVE THRU WALL

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

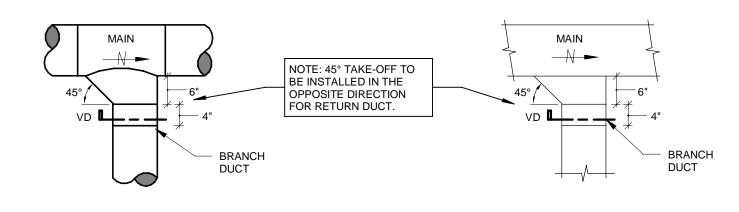


TYPICAL PIPE HANGER & ROLLER DETAIL

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



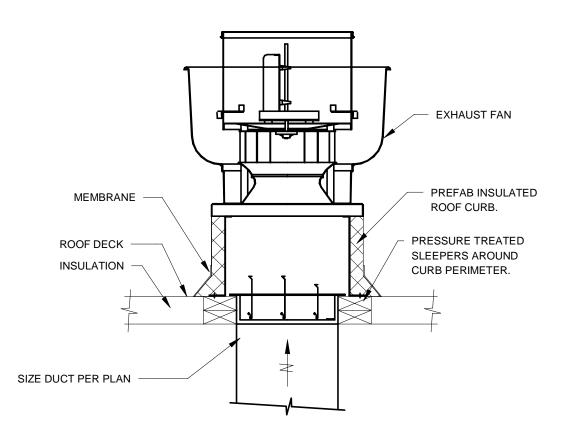
TYPICAL BRANCH TAKE-OFF DETAIL
SCALE: NTS



TYPICAL DUCT TAKE OFF DETAIL

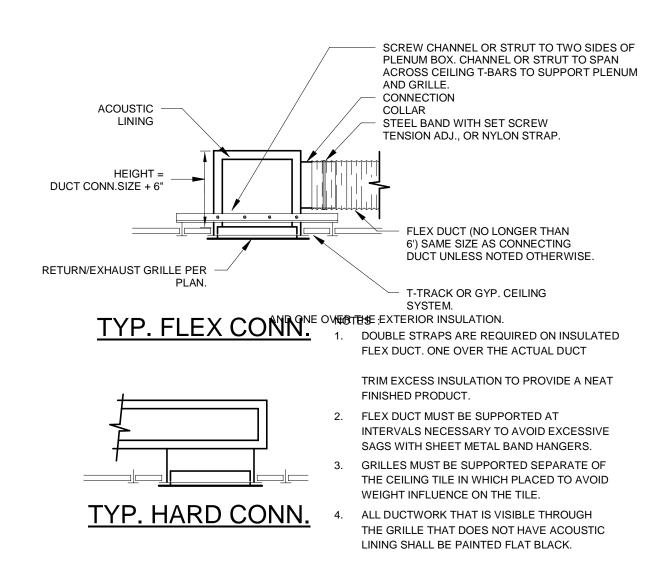
VALVING PER SPEC. **FULL PORT UNION** SECTION 23 05 23. **AUTOMATIC 2 POSITION** SUPPLIED WITH PTV (COMBINATION MANUAL CONTROL TRADE. REFER VENT AND PT PORT) TO SPEC. SECTION 25 90 00. COMBINATION AUTOMATIC FLOW CONTROL VALVE WITH BALL VALVE, UNION >coil× AND DUAL PT PORTS. COIL INLET BELOW **ELEVATION OF HWS** COMBINATION BALL VALVE, WYE STRAINER AND UNION WITH PT

TYPICAL 2-WAY COIL PIPING DETAIL SCALE: 1/8" = 1'-0"



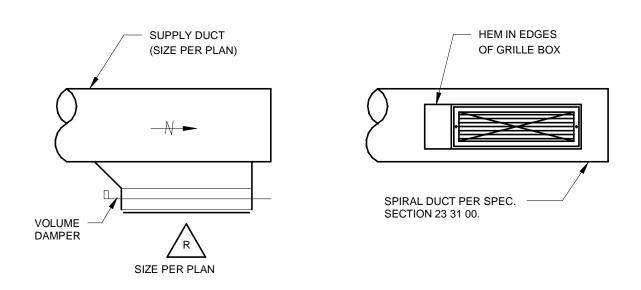
ROOF EXHAUST FAN DETAIL

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



TYPICAL RETURN/EXHAUST GRILLE DETAIL

SCALE: NTS



SPIRAL DUCT GRILLE INSTALLATION DETAIL

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

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MECHANICAL DETAILS

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(FOR BOILERS)