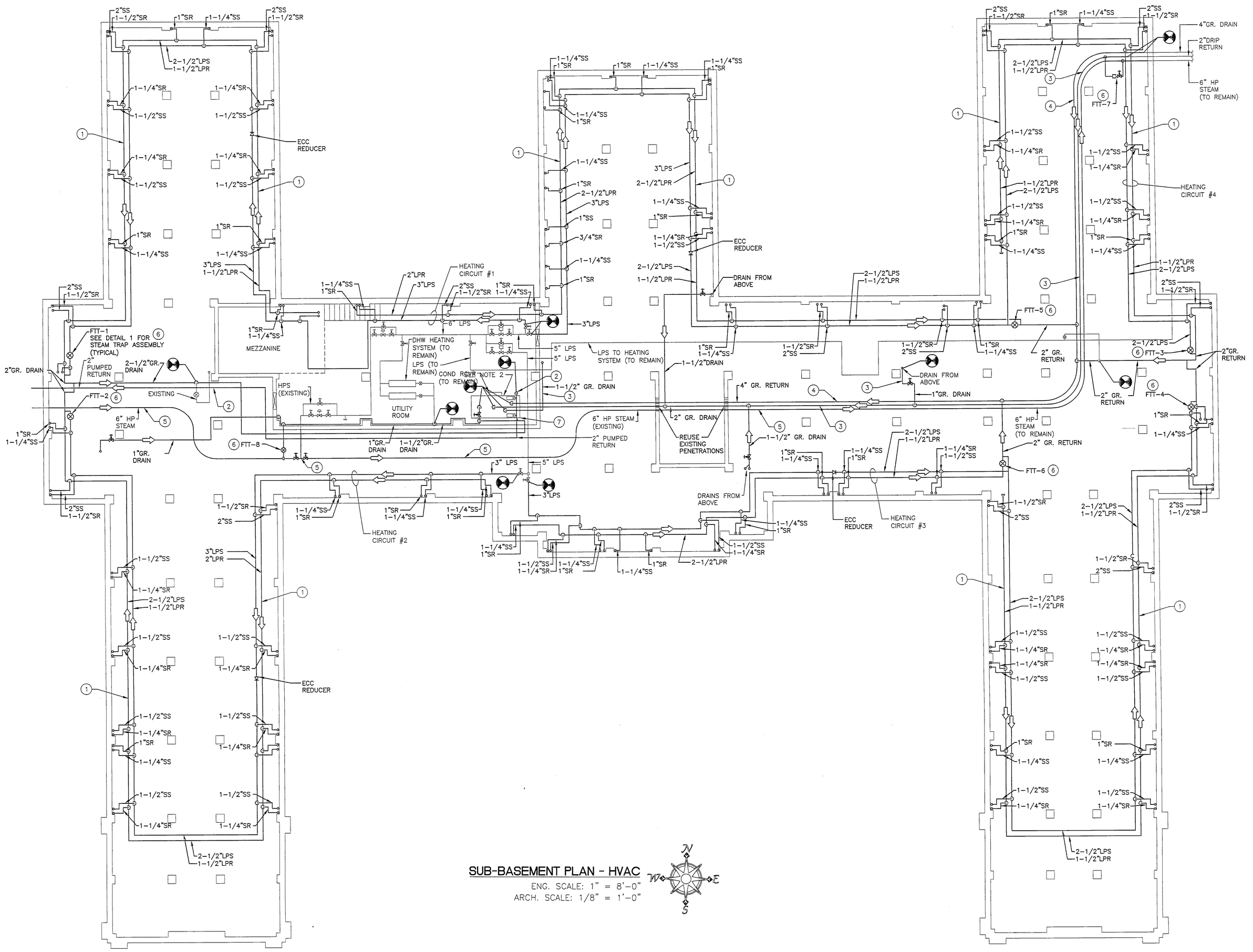

SUB-BASEMENT PLAN - HVAC

ENG. SCALE: 1" = 8'-0"
ARCH. SCALE: 1/8" = 1'-0"

DRAWING NOTES:

1. SYSTEM SHOWN ON DRAWING IS DIAGRAMMATIC. ADJUSTMENTS MAY BE REQUIRED BY FIELD CONDITIONS AS SOME ELEMENTS HAVE BEEN MODIFIED BY OWNER.
2. PROVIDE ALL CUTTING PATCHING AND FIRESTOPPING AT UTILITY ROOM WALLS AS REQUIRED TO ACCOMPLISH WORK. REPAIR AND PATCH OPENINGS TO MATCH EXISTING.
3. MAINTAIN INTEGRITY OF ALL EXISTING EQUIPMENT SYSTEMS LOCATED OUTSIDE OF THE WORK AREA.
3. FURNISH AND INSTALL ADDITIONAL PIPING, FITTINGS AND ACCESSORIES REQUIRED TO EXTEND AND RECONNECT REMAINING EQUIPMENT.
4. SCHEDULE SYSTEM SHUTDOWNS WITH VA COTR. SYSTEM SHUTDOWNS SHALL NOT INTERFERE WITH BUILDING OPERATIONS. INSTALL TEMPORARY SYSTEMS AS REQUIRED TO MAINTAIN BUILDING OPERATIONS.
5. VERIFY AND MAINTAIN ALL EXISTING PIPE SIZES.
6. COORDINATE ALL WORK WITH ASBESTOS ABATEMENT WORK.
7. CONTRACTOR TO REPLACE ALL HEATING STEAM AND RETURN PIPING, GR. DRAINS AND RETURNS, AND STEAM TRAPS AS INDICATED IN BOLD ON DRAWING.
8. ALL STEAM AND RETURN PIPING TO BE INSTALLED OVERHEAD AS HIGH AS POSSIBLE, GENERALLY AS INDICATED, AND PROPERLY GRADED IN DIRECTION INDICATED.
9. STEAM AND RETURN HORIZONTAL RUNOUTS ARE DIAGRAMMATIC ONLY.
10. SIZES INDICATED FOR HEATING RISERS ARE FOR STEAM ONLY. HEATING RETURN RISERS TO BE 3/4"-INCH. LPS MAIN SUPPLY AND RETURN HEADERS SHALL BE SIZED AS INDICATED.
11. INSTALL UNIONS, OR DIELECTRIC UNIONS WITH DIFFERING PIPE MATERIALS, AT STEAM SUPPLY AND RETURN RISERS.
12. INSULATE ALL NEW PIPING, VALVES AND FITTINGS AND HPS EXISTING PIPING PER SPECIFICATION.
13. IF PIPING SIZE DIFFERS FROM DRAWING, CONTRACTOR SHALL MATCH EXISTING.
14. HPS SYSTEM PIPING REPLACEMENT IS NOT IN THE WORK FOR THIS CONTRACT.
15. ALL RETURN AND DRAIN PIPING TO THE IN-SERVICE CONDENSATE RECEIVER SHALL BE REPLACED AND INSULATED. SEE PIPING DIAGRAM. PUMP DISCHARGE PIPING TO REMAIN.
16. PERFORM PRESSURE TESTING PER SPECIFICATION PRIOR TO INSULATION INSTALLATION. AREAS OF HPS PIPING NOT AFFECTED BY GASKET REPLACEMENT MAY BE INSULATED PRIOR TO PRESSURE TESTING.
17. ALL NEW PIPING SHALL HAVE PIPE IDENTIFIERS INSTALLED. SEE PAINTING SPECIFICATION SECTION.

LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE RETURN
GR. DRAIN	GR. DRAIN
GR. RETURN	GR. RETURN

NEW WORK KEY NOTES: (#)

1. FURNISH AND INSTALL NEW LPS AND LPR PIPING, VALVES AND FITTINGS. EACH LPS OR LPR RISER TO FLOOR ABOVE SHALL HAVE AN ISOLATION VALVE AND DIELECTRIC FITTING (AS NECESSARY). SEE DETAIL ON SHEET HP-1. INSULATE ALL NEW LPS AND LPR PIPING, VALVES AND FITTING PER SPECIFICATION.
2. FURNISH AND INSTALL NEW PUMPED CONDENSATE PIPING FROM CONDENSATE RECEIVER TO BUILDING FOUNDATION. INSULATE ALL NEW PIPING, VALVES AND FITTINGS PER SPECIFICATION
3. FURNISH AND INSTALL NEW GRAVITY DRAIN PIPING, VALVES AND FITTINGS FROM ALL SOURCES TO CONDENSATE RECEIVER IN UTILITY ROOM. INSULATE ALL NEW PIPING, VALVES AND FITTINGS PER SPECIFICATION.
4. FURNISH AND INSTALL NEW 4" GRAVITY RETURN PIPING FROM FOUNDATION WALL TO CONDENSATE RECEIVER. INSULATE ALL NEW PIPING, VALVES AND FITTINGS PER SPECIFICATION.
5. FURNISH AND INSTALL NEW HPS GASKETS FOR ALL MECHANICAL FLANGED JOINTS. INSULATE HPS PIPING, VALVES, AND FITTINGS PER SPECIFICATION.
6. FURNISH AND INSTALL NEW LPS AND HPS STEAM TRAPS PER SCHEDULE ON THIS SHEET. SEE SHEET HP-1 FOR STEAM TRAP ASSEMBLY PIPING DIAGRAMS.
7. SEE DETAIL 4 ON DETAIL SHEET HP-1 FOR PIPING DIAGRAM FOR EXISTING CONDENSATE RECEIVER AND NEW DRAIN PIPING.

STEAM TRAP SCHEDULE

TAG	LOCATION	SIZE	MAX OPERATING PRESSURE	BASIS OF DESIGN	REMARKS
FTT-1	BASEMENT	1"	15 PSIG	SPIRAX/SARCO FT-15	NPT CONNECTIONS
FTT-2	BASEMENT	1"	15 PSIG	SPIRAX/SARCO FT-15	NPT CONNECTIONS
FTT-3	BASEMENT	1"	15 PSIG	SPIRAX/SARCO FT-15	NPT CONNECTIONS
FTT-4	BASEMENT	1"	15 PSIG	SPIRAX/SARCO FT-15	NPT CONNECTIONS
FTT-5	BASEMENT	1"	15 PSIG	SPIRAX/SARCO FT-15	NPT CONNECTIONS
FTT-6	BASEMENT	1"	15 PSIG	SPIRAX/SARCO FT-15	NPT CONNECTIONS
FTT-7	BASEMENT	1-1/2"	60 PSIG	SPIRAX/SARCO FT-75	NPT CONNECTIONS
FTT-8	BASEMENT	1-1/2"	60 PSIG	SPIRAX/SARCO FT-75	NPT CONNECTIONS

SYMBOLS:

- POINT OF CONNECTION
- GATE VALVE
- GEAR OPERATED ISOLATION VALVE
- PRESSURE REGULATING VALVE
- BALL VALVE
- FLOAT AND THERMOSTATIC TRAP
- DIRECTION OF FLOW

ABBREVIATIONS:

FTT	FLOAT & THERMOSTATIC TRAP
HPS	HIGH PRESSURE STEAM
LPR	LOW PRESSURE RETURN
LPS	LOW PRESSURE STEAM
MPS	MEDIUM PRESSURE STEAM
NPT	NATIONAL PIPE THREAD
SR	STEAM RETURN
SS	STEAM SUPPLY

PIPING SCHEDULE

SERVICE	SCHEDULE	REMARKS
LPS	40	A-53B, STEEL, SEAMLESS OR ERW, OR A-106B SEAMLESS
SS	40	A-53B, STEEL, SEAMLESS OR ERW, OR A-106B SEAMLESS
GR.RETURN	40	A-53B, STEEL, SEAMLESS OR ERW, OR A-106B SEAMLESS
GR.DRAIN	40	A-53B, STEEL, SEAMLESS OR ERW, A-106B SEAMLESS
SR	40	A-53B, STEEL, SEAMLESS OR ERW, OR A-106B SEAMLESS
LPR	40	A-53B, STEEL, SEAMLESS OR ERW, A-106B SEAMLESS
HPS	40	A-53B, STEEL, SEAMLESS OR ERW, A-106B SEAMLESS
PC	TYPE K	ASTM B-88, COPPER, HARD DRAWN

Revisions	Date

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Drawing Title: SUB-BASEMENT PLAN - HVAC
Approved Project Director:
Project Title: BUILDING 37 SERVICE PIPING REPLACEMENT
Location: CANANDAIGUA VAMC
Date: 03-08-12
Checked: RAE
Drawn: BNT
Project Number: 52A85-12-501
Building Number: 37
Drawing Number: H-1
Dwg. 8 of 10

Office of Construction and Facilities Management
Department of Veterans Affairs

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