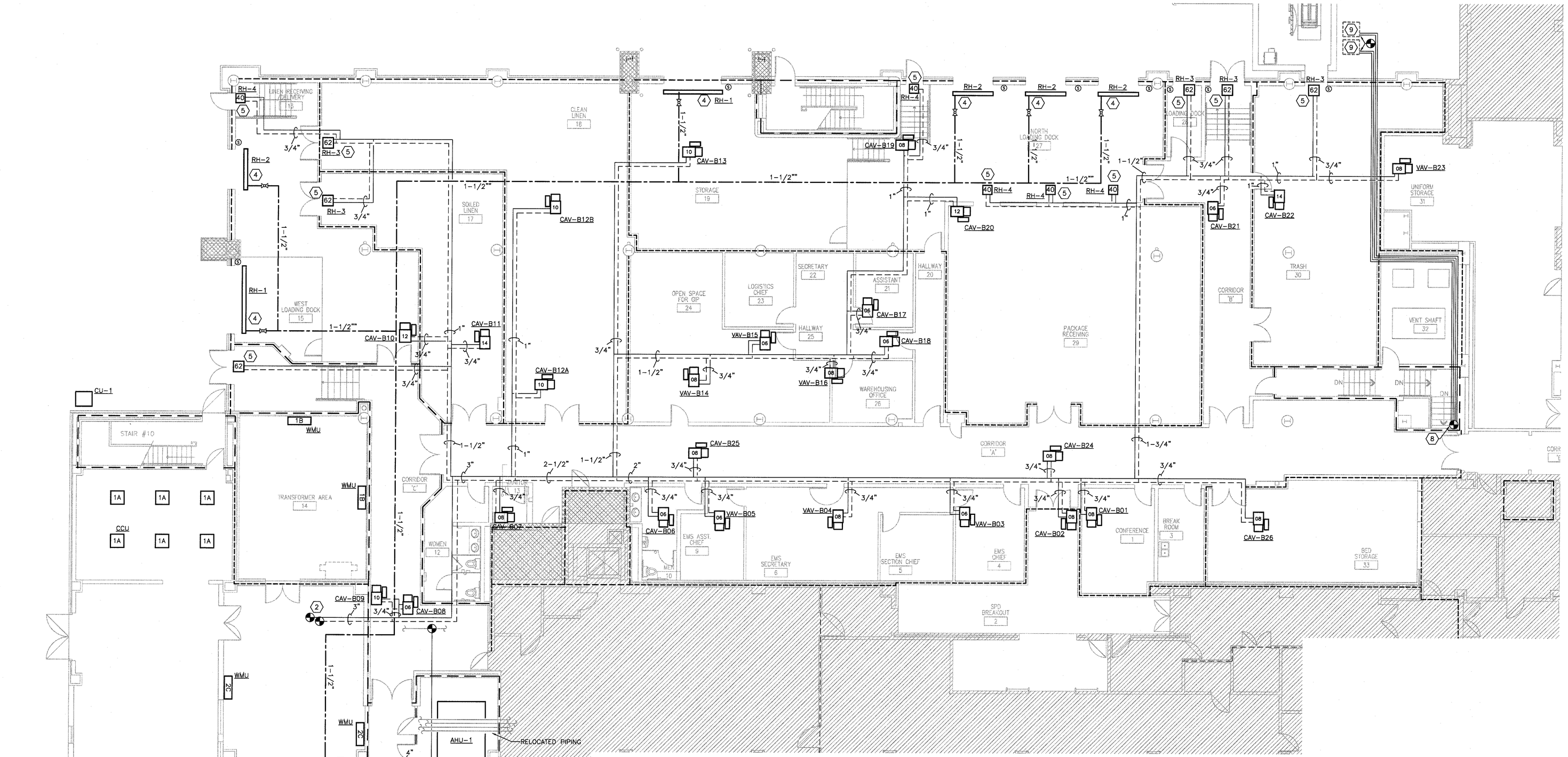


NEW HYDRONIC AND GAS PIPING

GRAPHIC SCALE SUPERSEDES NUMERIC SCALE

0 4' 8' 16'

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

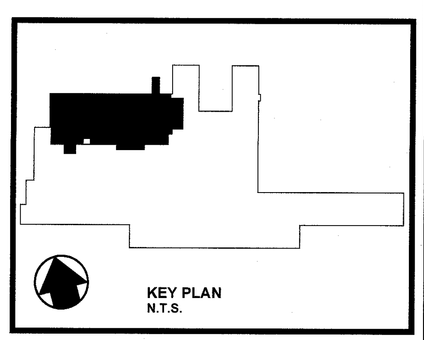
1 M2.0 M2.0

KEYNOTES

1. CONNECT NEW 1-1/2" NATURAL GAS LINE TO EXISTING 1-1/2" SERVICE.
2. NEW HWS/HWR PIPING SHALL BE TIED INTO EXISTING SERVICE IN ADJACENT MECHANICAL ROOM. NEW PIPING BRANCHES SHALL BE PROVIDED WITH FLOW-SETTING VALVES AS WELL AS SHUT-OFF VALVES. NEW HWS PIPING SHALL BE PROVIDED WITH BACK-FLOW PREVENTER. MECHANICAL CONTRACTOR SHALL COORDINATE WITH VA STAFF FOR ANY WORK THAT REQUIRES SHUT-DOWN OR ISOLATION OF THE EXISTING HWS/HWR PIPING.
3. PROVIDE NEW AIR LINES FOR RELOCATED AIR COMPRESSOR.
4. PROVIDE NEW GAS CONNECTION FOR RADIANT HEATER. NEW PIPING SHALL BE PROVIDED WITH DUST LEG AND SHUT-OFF VALVE AT UNIT.
5. PROVIDE NEW HWS/HWR PIPING FOR VERTICAL UNIT HEATERS. NEW PIPING SHALL BE PROVIDED WITH CIRCUIT-SETTER VALVE AND SHUT-OFF VALVE.
6. CONNECT NEW CHS/CHR PIPING TO EXISTING CHS/CHR MAINS IN ROOM A114 . CONNECTION TO LINES AND ANY POTENTIAL SHUT-DOWNS SHALL BE COORDINATED WITH VA PERSONNEL TO ENSURE MINIMUM OF DOWN-TIME IN SYSTEM. NEW CHS/CHR LINES SHALL BE PROVIDED WITH SHUT-OFF AND BALANCING VALVES. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NEW PENETRATIONS AND REPAIRING SAME WITH APPROVED SEALANTS AND METHODS. NEW CONNECTION SHALL BE MADE WITH HOT-TAPPING METHOD.
7. CONNECT NEW LPS/LPR PIPING TO EXISTING STEAM MAINS IN ROOM A114. CONNECTION TO LINES AND ANY POTENTIAL SHUT-DOWNS SHALL BE COORDINATED WITH VA PERSONNEL TO ENSURE MINIMUM OF DOWN-TIME IN SYSTEM. NEW LPS/LPR LINES SHALL BE PROVIDED WITH SHUT-OFF AND BALANCING VALVES, PRESSURE REDUCING VALVE, STEAM TRAP, AND ALL REQUIRED ACCESSORIES. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NEW PENETRATIONS AND REPAIRING SAME WITH APPROVED SEALANTS AND METHODS. NEW CONNECTION SHALL BE MADE WHILE EXISTING SERVICE HAS BEEN SHUT DOWN.
8. MECHANICAL CONTRACTOR SHALL REROUTE REFRIGERANT LINES TO AVOID INTERFERENCE OF CONNECTION OF NEW OA DUCT FOR MORGUE AHU.
9. NEW REFRIGERANT LINE SETS SHALL BE EXTENDED TO RELOCATED CONDENSING UNITS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH RELOCATION, INCLUDING, BUT NOT LIMITED TO: REMOVAL OF EXISTING REFRIGERANT LINES, PROVISION OF NEW LINES AND INSULATION, APPROVED REMOVAL OF EXISTING REFRIGERANT IF NECESSARY, NEW REFRIGERANT CHARGE FOR UNITS IF NECESSARY, AND ALL ASSOCIATED ACCESSORIES/LABOR INCIDENTAL TO THIS WORK. IF LINES MUST BE OVERSIZED TO ACCOMMODATE FOR INCREASED LENGTH OF LINE RUNS, MECHANICAL CONTRACTOR SHALL PROVIDE LARGER LINES AND SUFFICIENT REFRIGERANT.
10. STEAM HEATING COIL CONTROL VALVES SHALL BE CONSIST OF A 1/3, 2/3 CONFIGURATION.
11. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW FLOOR DRAIN FOR CONDENSATE FROM AHU. TIE NEW DRAIN LINE INTO EXISTING WASTE LINES IN CRAWLSPACE.

SYMBOLS/EQUIPMENT LEGEND

- (S) WALL-MOUNTED OVER-RIDE SWITCH
- CONNECTION BETWEEN NEW AND EXISTING
- CAV-B01 06 CAV/VAV AIR TERMINAL UNIT (NUMBER DENOTES BOX SIZE)
- 62 VERTICAL-TYPE UNIT HEATER (NUMBER DENOTES UNIT SIZE)
- RADIANT HEATER FOR DOCK DOOR (GAS-FIRED)
- CCU 1A CEILING CASSETTE HEATING/COOLING UNIT (LETTER INDICATES ZONE / NUMBER, CU)
- WMU WALL-MOUNTED HEATING/COOLING UNIT (LETTER INDICATES ZONE / NUMBER, CU)
- CU-2 NEW CONDENSING UNIT
- [X] ISOLATION VALVE FOR NATURAL GAS SERVICE
- HEATING WATER SUPPLY
- HEATING WATER RETURN
- GAS SUPPLY



REVISIONS	DATE
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FULLY SPRINKLERED BUILDING

BID DOCUMENTS

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Department of Veterans Affairs

MADE BY	CHECKED
DATE 7-28-11	

NEW HYDRONIC AND GAS PIPING PLAN

DRAWING NO.	BID PKG.
M2.0	