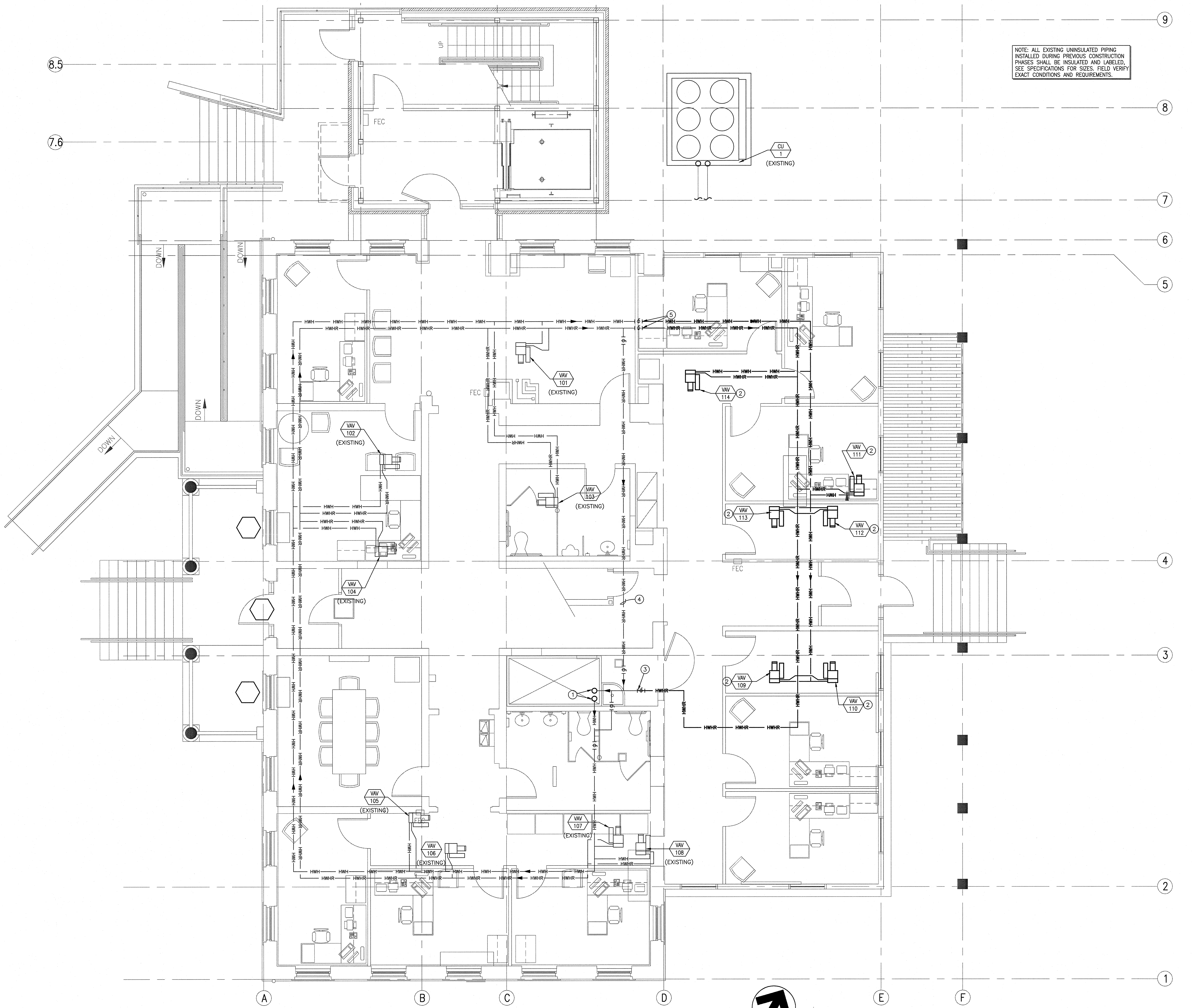

1 FIRST FLOOR HYDRONIC PLAN BLDG. 33

0' 1' 2' 4' 8' 12' SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. ROUTE DUCTWORK IN COORDINATION WITH OTHER TRADES. HOLD DUCTWORK AS HIGH AS POSSIBLE AND ROUTE DUCTWORK WITHIN STRUCTURE WHERE POSSIBLE.

B. DUCT SIZES INDICATED FOR CONNECTION TO EQUIPMENT MAY DIFFER FROM EXACT UNIT CONNECTION DIMENSIONS. PROVIDE ALL NECESSARY TRANSITIONS FROM DUCT SIZES LISTED TO UNIT CONNECTION.

C. TEMPERATURE SENSORS SHALL BE INSTALLED AT 48" AFF UNLESS NOTED OTHERWISE. COORDINATE JUNCTION BOX INSTALLATION WITH ELECTRICAL CONTRACTOR.

D. FIRE DAMPERS SHALL BE 1-1/2 HOUR RATED UNLESS OTHERWISE NOTED.

E. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRANSITIONS TO AVOID CONFLICT WITH OTHER DUCTWORK, PIPING, STRUCTURE, ETC. AS PART OF THIS CONTRACT. WHEREVER AVAILABLE SPACE ALLOWS, OFFSETS SHALL BE MADE WITH 45 DEGREE ELBOWS.

F. ALL CEILING DIFFUSERS SHALL BE PROVIDED WITH 4-WAY THROW PATTERN UNLESS OTHERWISE NOTED.

G. TRANSITION AS NECESSARY FROM DUCT SIZES INDICATED ON PLAN TO EQUIPMENT DUCT CONNECTION.

H. PIPING PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRESTOPPED IN ACCORDANCE NFPA-90A.

I. DUCTWORK AND PIPING SHOWN ARE FOR GENERAL ROUTING PURPOSES ONLY. CONTRACTOR SHALL CONFIRM EXACT ROUTING WITH OTHER TRADES AND PROVIDE ALL NECESSARY TRANSITIONS, HIGH POINT VENTS AND LOW POINT DRAINS AND OFFSETS NECESSARY TO INSTALL A COMPLETE AND FUNCTIONING SYSTEM.

J. THE CEILING SPACE FROM THE BOTTOM OF THE CEILING GRID TO A MINIMUM OF 6" ABOVE THE BOTTOM OF THE CEILING GRID IS RESERVED FOR INSTALLATION OF CEILING MOUNTED ITEMS (I.E. LIGHT FIXTURES, SPEAKERS, DIFFUSERS). NO PIPING, DUCTWORK, CONDUITS, ETC., EXCEPT DROPS SERVING THE CEILING MOUNTED ITEMS, IS ALLOWED TO BE INSTALLED IN THIS SPACE, UNLESS OTHERWISE APPROVED BY THE RESIDENT ENGINEER.

K. CONTRACTOR IS REQUIRED TO FOLLOW ALL OSHA REGULATIONS CONCERNING CONSTRUCTION. THE SUPERINTENDENT IS REQUIRED TO HAVE COMPLETED, AS A MINIMUM, OSHA'S 10-HOUR TRAINING AND BE KNOWLEDGEABLE OF GENERAL SAFETY REQUIREMENTS FOR CONFINED SPACES, FALL PROTECTION, PERSONAL PROTECTIVE EQUIPMENT, TRENCHING, SCAFFOLDING, CRANES, ELECTRICAL, ETC. APPLICABLE SUBCONTRACTORS ARE TO HAVE A COMPETENT PERSON ON SITE WHEN REQUIRED BY OSHA.

L. IF ACCESSING A CONFINED SPACE, THE CONTRACTOR IS REQUIRED HAVE THEIR OWN CONFINED SPACE AIR MONITOR AND TO TEST THE AIR PRIOR TO ENTERING ANY CONFINED SPACE. IF THE CONTRACTOR MUST ENTER A SANITARY SEWER MANHOLE, IN ADDITION TO A CONFINED SPACE AIR MONITOR, THEY MUST HAVE PROPER OSHA RESCUE EQUIPMENT FOR A PERMIT REQUIRED CONFINED SPACE. WHERE IT IS NOT POSSIBLE FOR THE VA TO SHUT DOWN AN ELECTRICAL PANEL OR CIRCUIT, THE CONTRACTOR MUST PROVIDE AND USE THE APPROPRIATE SAFETY CLOTHING AND EQUIPMENT AS REQUIRED BY NFPA 70E. THE VA WILL BE MONITORING THE CONTRACTOR'S COMPLIANCE WITH OSHA REGULATIONS. FAILURE TO COMPLY IS GROUNDS FOR STOPPING WORK.

M. REFER TO HEATING WATER HYDRONIC SCHEMATIC ON SHEET M3.3 FOR VALVE LOCATIONS, PIPE SIZES, AND ACCESSORY LOCATIONS.

N. BALL VALVES SHALL BE USED THROUGHOUT THE HYDRONIC SYSTEM FOR ISOLATION REGARDLESS OF PIPE SIZE.

O. ALL CHILLER OR CONDENSING UNIT COILS ARE TO BE COMPLETELY PROTECTED USING AIR INTAKE FILTRATION SCREENS SPECIFICALLY DESIGNED FOR COTTONWOOD FILTRATION. THE SCREENS SHALL BE EASILY REMOVABLE WITH QUARTER TURN CONNECTIONS. THE SCREEN SHALL NOT VOID THE WARRANTY OF THE ORIGINAL EQUIPMENT MANUFACTURER. THE SCREENS SHALL HAVE A STATIC PRESSURE DROP LESS THAN 0.1 INCHES OF WATER GAGE, BE UV RESISTANT, FLAME RESISTANT, NON-ELECTRO STATIC, AND MOLD AND MILDEW RESISTANT. THE FILTERS SHALL BE IN ACCORDANCE WITH THE NATIONAL AIR FILTRATION ASSOCIATION FOR COTTONWOOD FILTERS.

SHEET NOTES:

1. EXISTING HWH AND HWHR PIPING IN CHASE TO REMAIN.
2. PROVIDE BRAIDED HOSE KIT COMPLETE WITH AUTOMATIC FLOW CONTROL VALVE, CONTROL VALVE, AND STRAINER. FURNISH ALL REQUIRED OFFSETS AND REDUCTIONS FROM HYDRONIC PIPING TO COIL CONNECTION. ROUTE PIPING SUCH THAT COMPLETE ACCESS TO CONTROL PANEL IS AVAILABLE. RE: M3.3 FOR PIPE SIZE.
3. CONNECT NEW 32mm (1¼") HWHR LINE TO EXISTING 32mm (1¼") ISOLATION VALVE.
4. CLOSE ISOLATION VALVES AND REMOVE TEMPORARY RETURN LINE. (1)
5. EXTEND EXISTING 32mm (1¼") AS SHOWN.

REVISIONS		DATE
1	REVISION 1	06/13/12

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PROFESSIONAL ENGINEER REGISTERED 8002 STATE OF IDAHO STEVEN C. HARDY
6/13/12

CAD FILE NAME:
531-10-114_M2.6

XREF FILE NAME:
531-10-114_xTBLK
531-10-114_xFIRST FLR
531-11-112_M2.2
531-11-112_M2.6

DRAWING TITLE: FIRST FLOOR HYDRONIC PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: VAMC PHASE II: BUILDING 33 RENOVATION

BUILDING NUMBER	CHECKED	DRAWN
33	SCH	DJH

LOCATION: VAMC BOISE, IDAHO

DATE: 06/01/12
PROJECT NO.: 531-10-114
DRAWING NO.: M2.6
DWG 62 OF 103

DEPARTMENT OF VETERANS AFFAIRS

Username: jzel
Jun 12, 2012 - 2:29pm
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