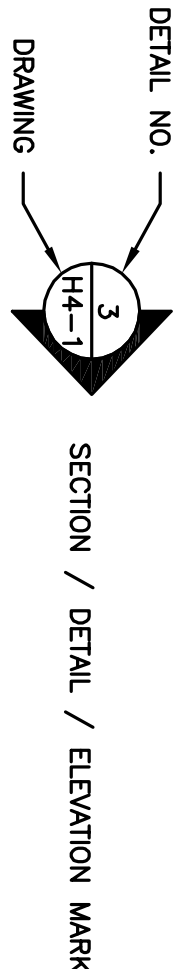
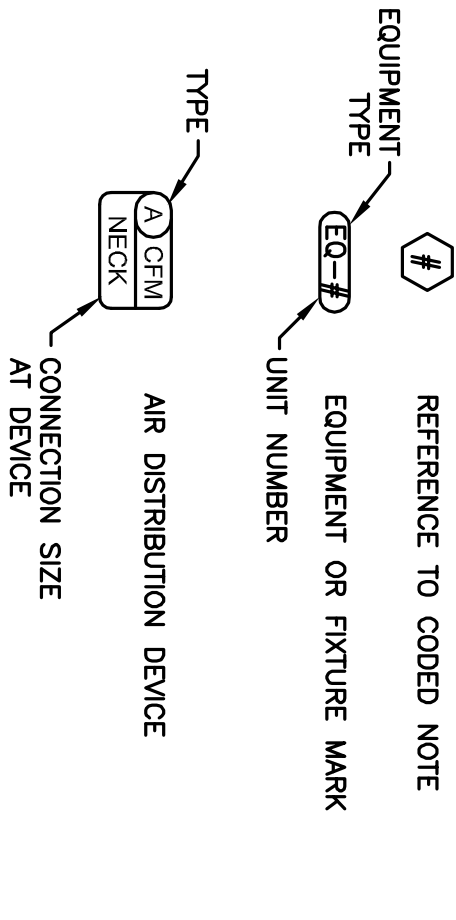


CALL OUTS:



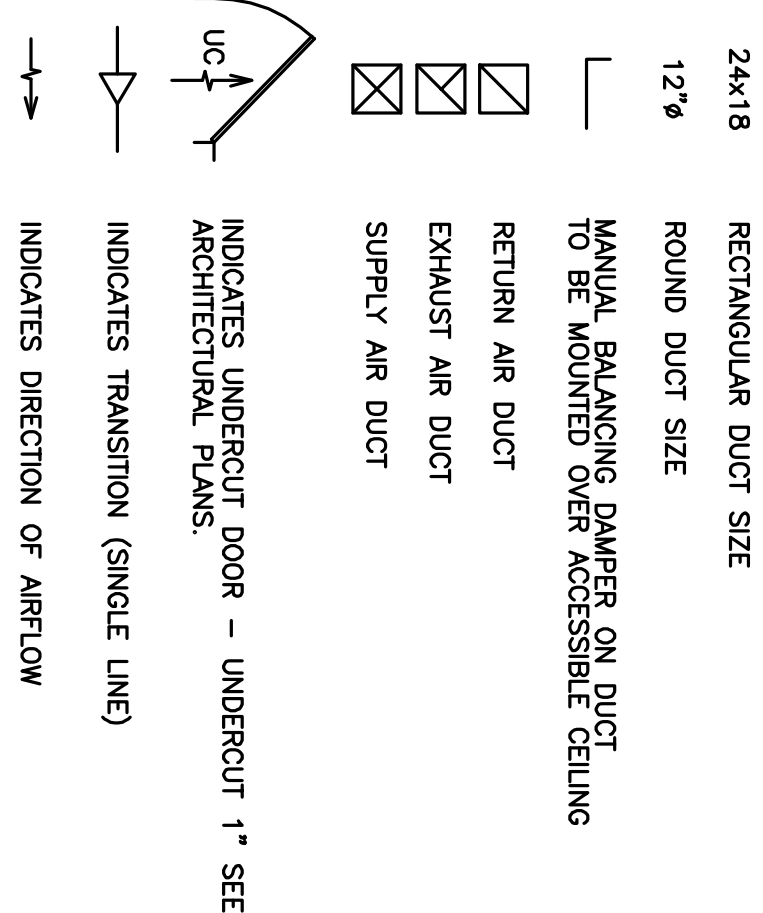
ABBREVIATIONS:

- RO ROOF OPENING
- CIE CONNECT TO EXISTING
- LOD LIMIT OF DEMOLITION
- PC PLUMBING CONTRACTOR
- FC FIRE SUPPRESSION CONTRACTOR
- HC HVAC CONTRACTOR
- TC TEMPERATURE CONTROL CONTRACTOR
- GC GENERAL TRADES CONTRACTOR
- EC ELECTRICAL CONTRACTOR
- SA SUPPLY AIR
- RA RETURN AIR
- EA EXHAUST AIR
- AFI ABOVE FINISHED FLOOR
- AD ACCESS DOOR
- RD ROOF DRAIN
- FD FLOOR DRAIN
- HHMI HOLISTIC INFORMATION MANAGEMENT INFRASTRUCTURE

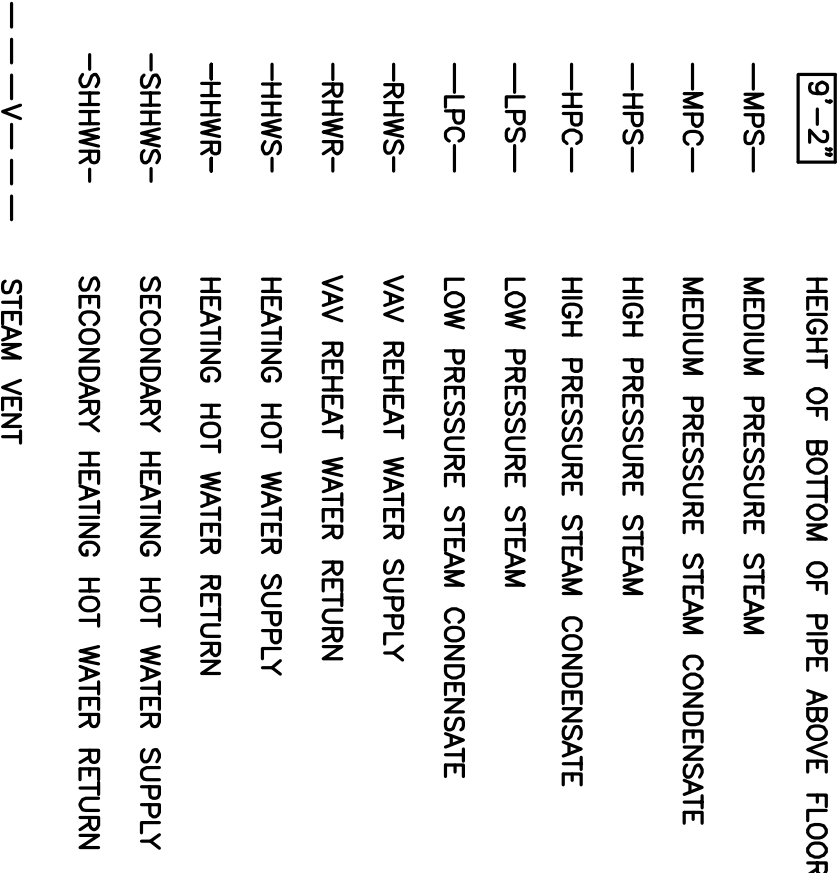
HVAC CONTROLS:

- ⊙ MANUAL OVERRIDE
- Ⓢ THERMOSTAT
- Ⓜ HUMIDITY SENSOR
- Ⓢ STATIC PRESSURE SENSOR
- V CURRENT TRANSFORMER ON MOTOR WIRING WITH TRANSDUCER
- Ⓛ LOW LIMIT THERMOSTAT

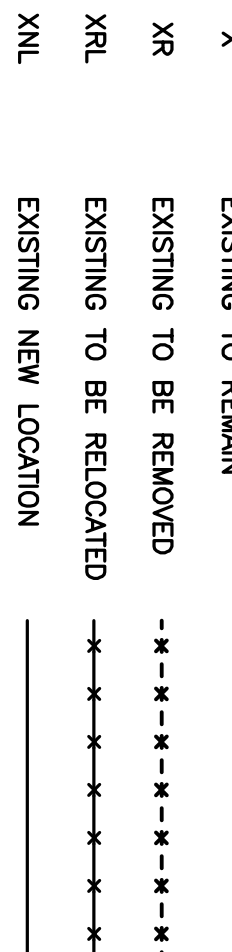
MECHANICAL SYMBOLS:
DUCTWORK SYMBOLS:



HVAC PIPING:

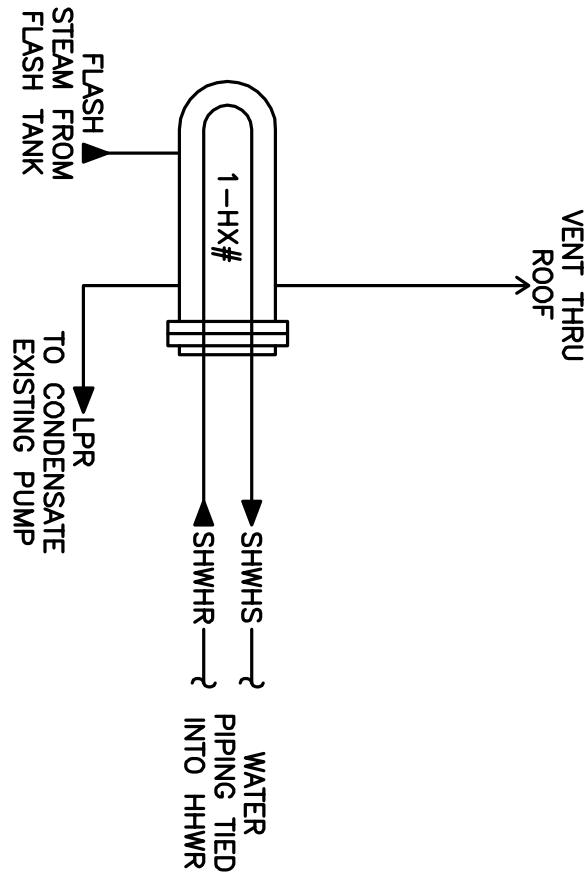


DEMOLITION SYMBOLS:



HVAC GENERAL NOTES:

- LOCATIONS AND ROUTING OF EXISTING PIPING, DUCTWORK AND EQUIPMENT IS PRESUMED FROM EXISTING DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL PRIOR TO PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THESE DRAWINGS.
- COORDINATE ALL SHUT-DOWNS OF EXISTING MECHANICAL SYSTEMS WITH OWNER A MINIMUM OF SEVEN WORKING DAYS IN ADVANCE.
- PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW WALL MOUNTED DEVICES WITH OWNER AND ARCHITECT. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PRECISE LOCATION OF NEW MOUNTED DEVICES. COORDINATE ROOF MOUNTED EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE ADEQUATE SERVICE CLEARANCE FOR ALL MECHANICAL EQUIPMENT. REFER TO INSTRUCTIONS FROM THE EQUIPMENT MANUFACTURER. MAINTAIN A MINIMUM OF 18 INCH CLEARANCE FROM THE UNIT OR VARIABLE AIR VOLUME TERMINALS AND FAN POWERED TERMINALS ABOVE CEILINGS.
- NEW DUCTS OR PIPING SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF PANELS.
- NO TEMPERATURE SENSING CONTROL DEVICES SHALL BE LOCATED OVER HEAT PRODUCING DEVICES.
- INSTALL ALL EQUIPMENT TO BE DEAD LEVEL.
- WHEREVER POSSIBLE REUSE OF EXISTING OPENINGS IS SHOWN, WHERE NEW OPENINGS ARE REQUIRED, PROVIDE REINFORCED CONCRETE JOISTS. OFFSETS MAY BE NECESSARY WITHIN SHUTS/DUCT RISERS.
- MECHANICAL DRAWINGS ARE DIAGRAMMATIC, WHERE DUCT SIZE SHOWN IS IN CONDUCT WITH STANDARD PRACTICES. PROVIDE SUFFICIENT CLEARANCE FOR ACCESS TO ALL EQUIPMENT. WHERE CEILING SPACE IS TO BE USED AS A RETURN AIR PLenum, PIPE SHALL NOT BE PVC. PLASTIC AND ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SHALL BE PLenum RATED.



FLASH STEAM VENT CONDENSER

NIS

HEAT EXCHANGER SCHEDULE (STEAM TO WATER)

CONVECTOR NO.	LOCATION	CIRCULATING FLUID			STEAM PRESSURE IN PSI	CONVECTOR CAPACITY GPM	SHELL CONVECTOR INCHES	CONVECTOR FEET
		FLUID	TEMP. IN °F	TEMP. OUT °F				
1-HX1	DEGENERATOR WATER	120	140	0.2 FT	2	600	10	3
1-HX2	BASEMENT MECH ROOM WATER	200	140	0.25 FT	2	1000	12	3
1-HX3	7TH FLOOR MECH ROOM WATER	240	140	0.35 FT	2	1200	12	3
1-HX4	BASEMENT MECH ROOM WATER	120	140	0.2 FT	2	600	10	3
1-HX5	EAST PENHOUSE MECH ROOM WATER	40	140	0.2 FT	2	200	6	3
1-HX6	PENHOUSE MECH ROOM WATER	40	140	0.2 FT	2	200	6	3

- NOTES: SEPARATIONS FOR REQUIRED ACCESSORIES.
- SHOW 2" MINIMUM CLEARANCE FROM SHIMMER.
 - TUBE TOLLING FACTOR 0.005.
 - TUBE TOLLING FACTOR 0.005.
 - FLASH STEAM VENT PIPED INTO BOTTOM OF HEAT EXCHANGER SHELL.
 - DO NOT PROVIDE STEAM TRAP OR CONTROL VALVES FOR HEAT EXCHANGERS.

STEAM CONDENSATE PUMP (ELECTRIC) SCHEDULE

PUMP NO.	LOCATION	TYPE UNIT	FLOW (GPM)	DISCHARGE PRESSURE (PSI)	MOTOR		RECEIVER (GALLONS)
					NOM HP	V/PH/Hz	
1-CP1A	BOILER ROOM	DUPLEX	110	30	5.0 (EACH)	460/3/60	3500
1-CP1B	ASH PIT	DUPLEX	110	30	5.0 (EACH)	460/3/60	3500

- NOTES:
- EXISTING RECEIVER TO BE REUSED. REFER TO PLANS.
 - PUMPS SHALL BE RATED FOR 300 DEG F TEMPERATURE.
 - OUTLET FOR EACH NEW PUMP.
 - CONNECT NEW PUMPS TO EXISTING CONDENSATE CONTROL PANEL (PACO).

FULLY SPRINKLERED

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Revisions:

Revisions:	Date
FINAL CD SUBMISSION - FOR CONSTRUCTION	06-18-12

ARCHITECT:



MECHANICAL LEGEND

Drawing Title	Project Title	Project Number
MECHANICAL LEGEND	STEAM CONDENSATE HEAT RECOVERY SYSTEM	541-12-105
Approved Project Director	Location	Building Number
	VAMC - WADE PARK	1
Date	Checked	Drawing Number
06-18-12	BMW	2-HO
	Drawn	Dwg. of
	DAD	

Office of Facilities Management
Department of Veterans Affairs