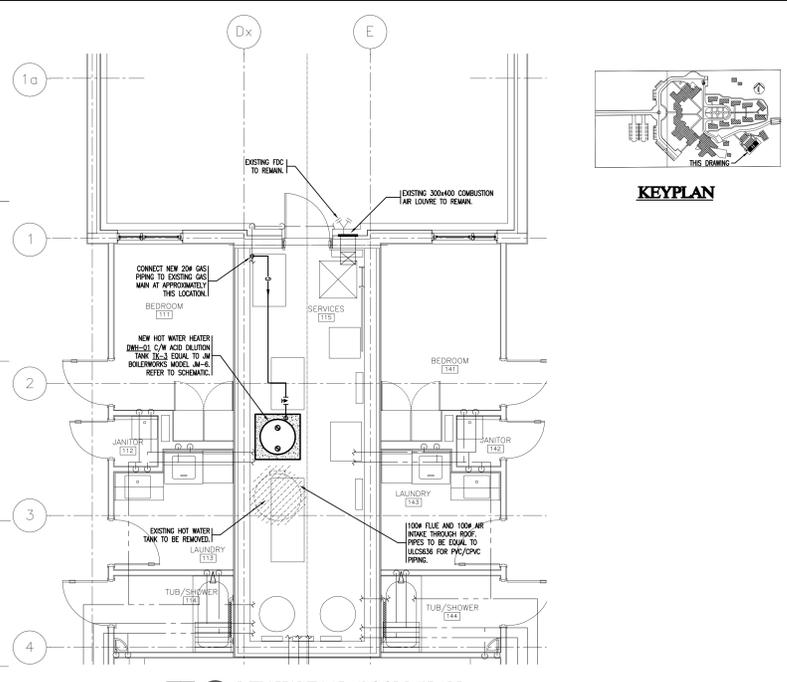


MECHANICAL PLAN
M1.0 SCALE: 1:50



MECHANICAL ROOM PLAN
M1.0 SCALE: 1:50

MECHANICAL LEGEND

PIPE DOWN FROM LEVEL ABOVE / DOWN TO LEVEL BELOW
PIPE UP FROM LEVEL BELOW / UP TO LEVEL ABOVE
VENT UP FROM LEVEL BELOW / UP TO LEVEL ABOVE / UP TO CAP

FLOW DIRECTION
ELBOW RISING
TOP TAKEOFF / BOTTOM TAKEOFF
SEE TEXT
ELBOW DROPPING
SHORTOFF VALVE VERTICAL MOUNT
FLOW BALANCING VALVE
CHECK VALVE
FLUID VALVE
2-WAY CONTROL VALVE
3-WAY CONTROL VALVE
MECHANICAL PRESSURE REDUCING VALVE
LOCKING VALVE
RELIEF VALVE
UNION OR FLANGE
FLEXIBLE CONNECTION
AUTOMATIC AIR VENT
STRANDED CABLE OR FLUID PUMP
NEW THERMOSTAT / THERMOSTAT C/W GUARD / HUMANOSTAT

SWITCH
THERMOMETER/THERMOMETER & PRESSURE WELL
PRESSURE GAUGE/PRESSURE TAP
FLOW METER
FLOW SWITCH
HEATING WATER SUPPLY
HEATING WATER RETURN
COLD/WATER HEATING SUPPLY
COLD/WATER HEATING RETURN
PIPE ANCHOR / FIRE CLASP
FIRE EXTINGUISHER C/W CABINET (TYPE NOTED)
FIRE HOSE CABINET
SMOKE CONNECTION
FIRE PROTECTION SUPPLY
SPRINKLER SUPPLY
SPRINKLER HEAD-UPRATED
SPRINKLER HEAD-FRAME
SPRINKLER HEAD-SIDEWALL
SPRINKLER HEAD-FLUSH MOUNTED
SANITARY DRAIN
STORM DRAIN
VENT PIPE
INDIRECT DRAIN
DOMESTIC COLD WATER
DOMESTIC HOT WATER
DOMESTIC HOT WATER RECIPIENT
GAS-LOW PRESSURE

CLEANOUT / FLOOR CLEANOUT
SUPPLY DUCT (UP & DOWN)
RETURN DUCT (UP & DOWN)
EXHAUST (UP & DOWN)
OUTDOOR AIR (UP & DOWN)
ROUND DUCT (UP & DOWN)
FLEXIBLE DUCT CONNECTION
BALANCING DAMPER
OPPOSED BLADE DAMPERS
MOTORIZED DAMPER
SUPPLY OUTLET
SQUARE DIFFUSER / ROUND DIFFUSER
RETURN OR EXHAUST INLET (WALL TYPE)
RETURN GRILLE / EXHAUST GRILLE
FIRE DAMPER OR SMOKE DAMPER
TURNING VANES
ACOUSTIC LINED DUCTWORK
ACCESS DOOR
EQUIPMENT NUMBER
AIR OUTLET OR INLET

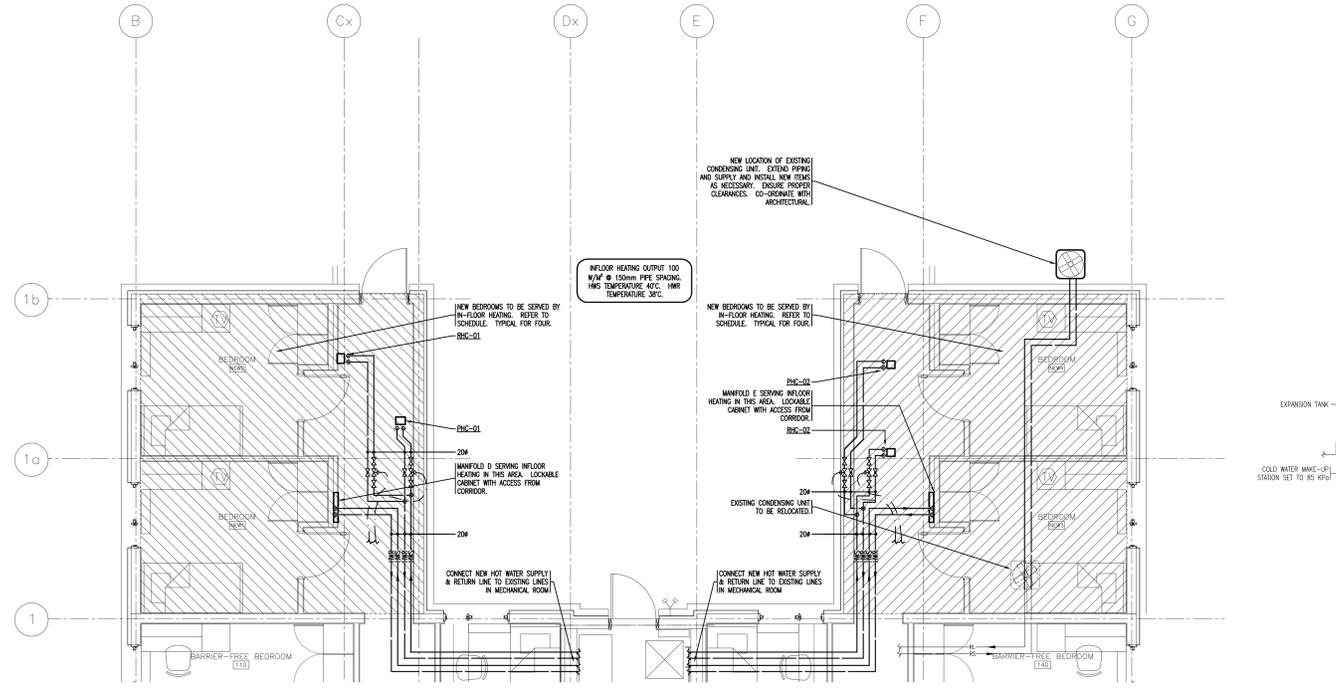
TYPE
SIZE (MM)
CAPACITY (L/S)

SCHEDULE FOR NATURAL GAS UTILITY

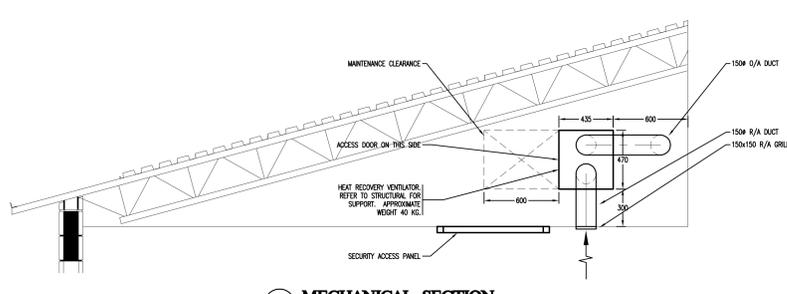
EQUIPMENT	HEAT (kW)	MINIMUM DISTANCE BETWEEN GAS LINE AND UNDERGROUND SERVICES - 200mm
EXISTING	177	73.2
DHWH-1	73.2	73.2
TOTAL	250.2	

MINIMUM DISTANCE BETWEEN GAS LINE AND UNDERGROUND SERVICES - 200mm
MAXIMUM DISTANCE BETWEEN NEIGHBORING GAS LINE ABOVE MECHANICAL ROOM FLOOR - 150mm.

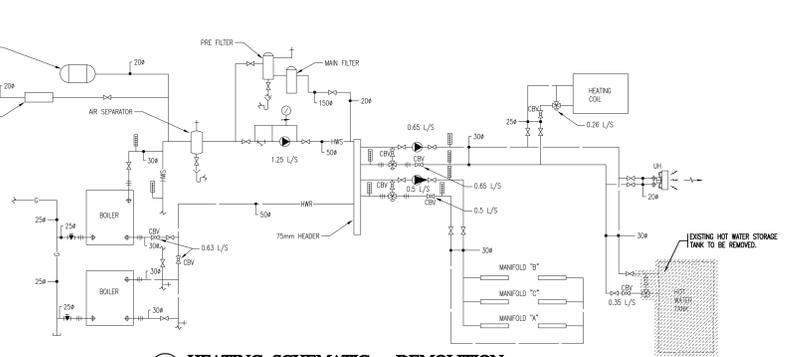
PRIOR TO COMMENCING INSTALLATION WITHIN THE BUILDING, VERIFY THE LOCATION AND INVERT ELEVATIONS OF SERVICE LINES INCLUDING SANITARY SEWER, STORM SEWER, WATER MAINS, AND GAS MAINS WITH AUTHORITIES HAVING JURISDICTION TO ENSURE SERVICES CAN BE INSTALLED AS SHOWN.



HEATING PLAN
M1.0 SCALE: 1:50



MECHANICAL SECTION
M1.0 SCALE: 1:20



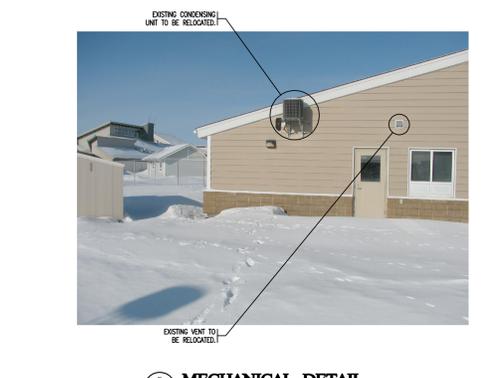
HEATING SCHEMATIC - DEMOLITION
M1.0 SCALE: N.T.S.

GENERAL NOTES:

- DEMOLITION AND CONSTRUCTION SHALL BE COORDINATED WITH GENERAL CONTRACTOR.
- CONTRACTOR SHALL VERIFY ALL REQUIRED WORK WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS.
- CONTRACTOR SHALL VERIFY / COORDINATE ALL WORK AS SHOWN OR DESCRIBED ON DRAWINGS ON SITE PRIOR TO CONSTRUCTION.
- EQUIPMENT AND ASSOCIATED ACCESSORIES, DUCTING, AND PIPING DESCRIBED AS ELIMATED SHALL BE REMOVED FROM SITE UNLESS OTHERWISE NOTED. REVIEW DISPOSAL REQUIREMENTS OF ALL EQUIPMENT WITH OWNER.
- BEFORE COMMENCING INSTALLATION WITHIN THE BUILDING, VERIFY THE LOCATION AND INVERTS OF SERVICE LINES INCLUDING SANITARY/STORM SEWER, WATER MAINS, AND GAS LINES WITH AUTHORITIES HAVING JURISDICTION TO ENSURE NEW SERVICES CAN BE INSTALLED AS SHOWN.
- TURN OVER ALL REMOVED PIPING PRODUCTS TO OWNER.
- REMOVE ALL EXISTING MECHANICAL COMPONENTS IN RELOCATED AREAS AND LOCATIONS REQUIRES REMOVE ANY PIPING AND DUCTWORK BACK TO EXISTING MAINS AND CAP.
- TEXT DESCRIPTIONS SHOWN IN DASH INDICATE EXISTING ITEMS. TEXT DESCRIPTIONS SHOWN IN SOLID INDICATE NEW ITEMS, EXCEPT WHERE NOTED.
- THESE DRAWINGS HAVE BEEN PRODUCED USING THE FOLLOWING:
 - 1.1. INFORMATION COLLECTED BY AED PERSONNEL IN JANUARY 2011.
 - 1.2. EXISTING DRAWINGS PRODUCED BY CHORLEY AND BISSET IN 2000.



HEATING SCHEMATIC - RENOVATION
M1.0 SCALE: N.T.S.



MECHANICAL DETAIL
M1.0 SCALE: N.T.S.



MECHANICAL DETAIL
M1.0 SCALE: N.T.S.