

BUILDING KEY PLAN

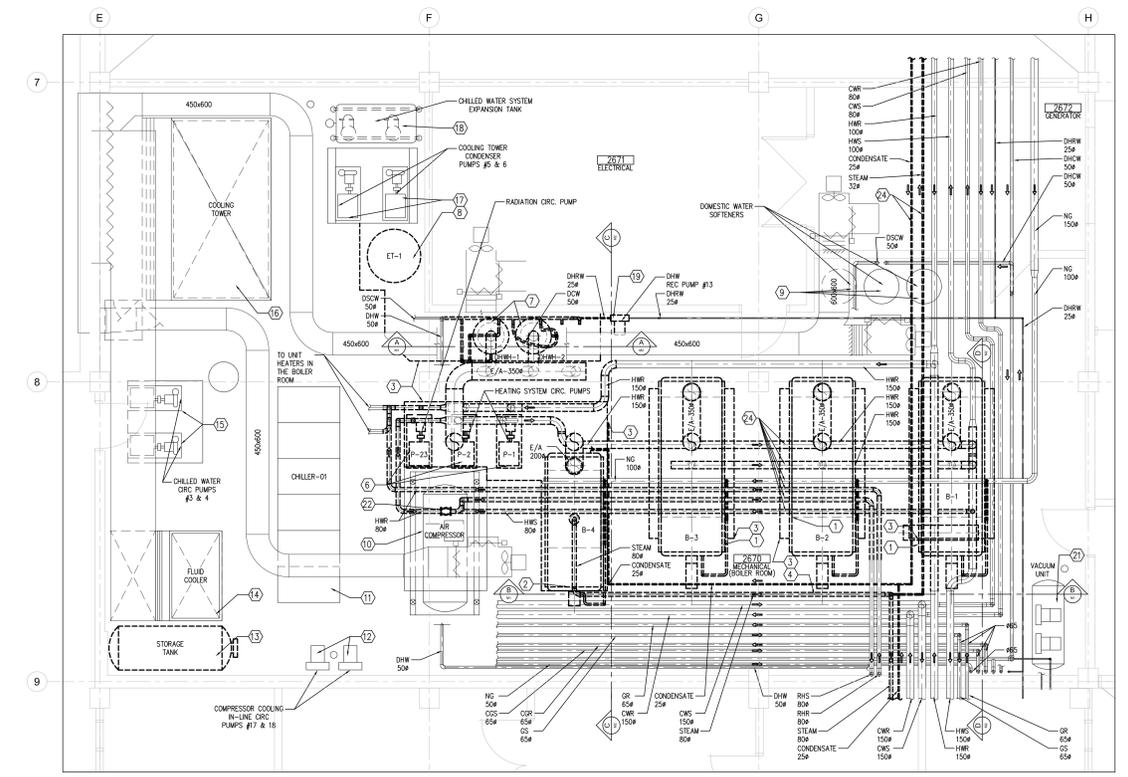
LEGEND

GENERAL NOTES:

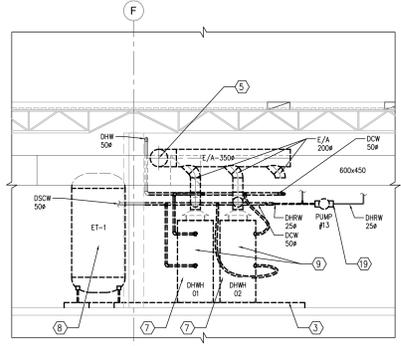
- DO NOT SCALE THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCY TO THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR SHALL INCLUDE FOR AND PROVIDE ALL COORDINATION BETWEEN TRADES AND CONSULTANT ON AND OFF SITE AS REQUIRED FOR INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS. WHERE MINOR REROUTING OF SERVICES IS REQUIRED DUE TO ON-SITE CONDITIONS, IT SHALL BE PERFORMED AT NO ADDITIONAL COST.
- FIRE STOP ALL PIPE PENETRATIONS WHERE THEY PASS THROUGH FIRE-RATED WALLS. CONFIRM ON-SITE FOR LOCATION OF RATED WALLS AND THEIR RATING IN HOURS.
- CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.
- CHECK FOR ASBESTOS BEFORE PERFORMING DEMOLITION WORK. ASBESTOS REMOVAL TO BE DONE BY OTHERS.
- PIPING ROUTE AND SIZING WAS DRAFTED BASED ON SITE MARKUPS AND ORIGINAL DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCY TO THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE TEMPORARY HEATING AS REQUIRED. DO NOT USE NEW EQUIPMENT FOR THIS PURPOSE WITHOUT THE EXPRESS CONSENT OF THE ENGINEER. REFER TO DRAWING M12.
- SCHEDULING OF ALL WORK SHALL BE ARRANGED WITH THE OWNER. COORDINATE THE SHUT-DOWN OF EXISTING UTILITIES AND SERVICES AS REQUIRED FOR CONNECTIONS OF NEW WORK. WORK WITHIN THE BUILDING MAY HAVE TO BE PERFORMED DURING NON-REGULAR HOURS, AND MUST CONFORM TO THE WORK RULES OF THE BUILDING, AS DIRECTED BY THE OWNER.

DEMOLITION KEYNOTES:

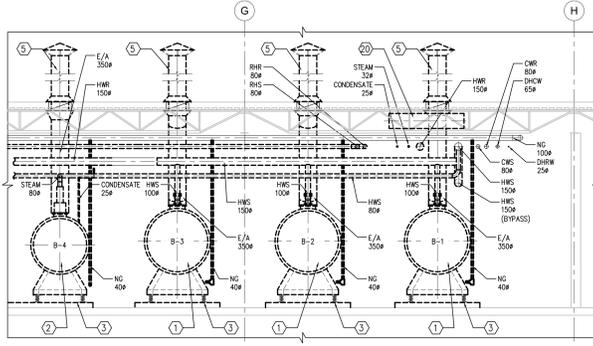
- REMOVE THREE EXISTING HOT WATER BOILERS AND ASSOCIATED ACCESSORIES.
- REMOVE EXISTING STEAM BOILER AND ASSOCIATED ACCESSORIES.
- REMOVE EXISTING HOUSEKEEPING PAD FOR BOILERS, PUMPS AND DOMESTIC HOT WATER HEATERS.
- REMOVE INDICATED PIPING. CUT BACK STEAM AND CONDENSATE LINES AS MUCH AS POSSIBLE, REMOVING LINES WHERE ACCESSIBLE. CAP PIPES CLOSE TO PERIMETER WALLS OF ROOMS WHERE REMOVAL IS NOT FEASIBLE. REFER TO DRAWING M5 FOR MORE DETAILS.
- REMOVE EXISTING STACK VENT DUCT AND CHIMNEY FOR ALL BOILERS AND DOMESTIC HOT WATER HEATERS.
- REMOVE HEATING SYSTEM CIRCULATION PUMPS AND RADIATION RECIRCULATION PUMP.
- REMOVE TWO DOMESTIC HOT WATER HEATER.
- REMOVE HOT WATER SYSTEM EXPANSION TANK.
- DOMESTIC WATER SOFTENERS TO REMAIN.
- AIR COMPRESSOR TO REMAIN.
- WATER COOLED CHILLER TO REMAIN.
- COMPRESSOR CIRCULATION PUMPS TO REMAIN.
- REMOVE AND DISPOSE DECOMMISSIONED STORAGE TANK.
- FLUID COOLER TO REMAIN.
- CHILLED WATER CIRCULATION PUMPS TO REMAIN.
- COOLING TOWER TO REMAIN.
- COOLING TOWER CONDENSER PUMPS TO REMAIN.
- CHILLED WATER EXPANSION TANK TO REMAIN.
- REMOVE DOMESTIC HOT WATER RECIRCULATION PUMP.
- REMOVE AIR CHAMBER.
- VACUUM UNIT TO REMAIN.
- REMOVE 3 WAY MIXING VALVE.
- REMOVE EXISTING STACK VENT DUCT AND CHIMNEY FOR ALL STEAM BOILER AND PATCH ROOF.
- COORDINATE REMOVAL AND INSTALLATION OF NEW SYSTEMS WITH EXISTING DUCTS AND PIPING BELOW. ALLOW FOR ADJUSTMENTS AS REQUIRED.



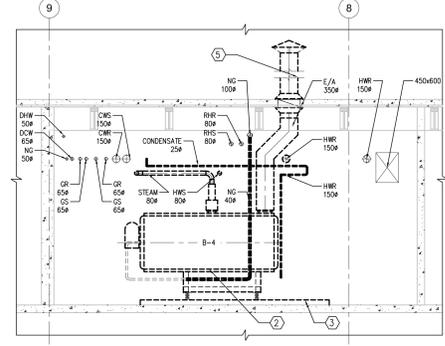
1 BOILER ROOM - EXISTING SYSTEMS AND DEMOLITION
 M2 1:50



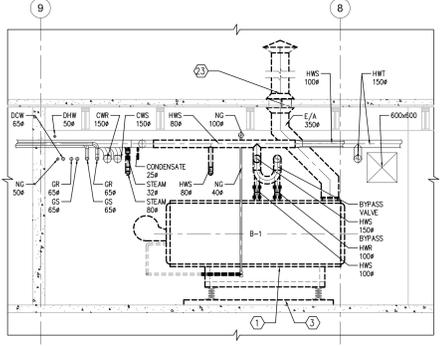
A SECTION - DOMESTIC HOT WATER HEATER DETAIL
 M2 1:50



B SECTION - BOILERS DETAIL
 M2 1:50



C SECTION - STEAM BOILER
 M2 1:50



D SECTION - HOT WATER BOILER
 M2 1:50



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|---|-------------------------|-------------|
| 1 | ISSUED FOR CONSTRUCTION | 30-JUN-2017 |
| 0 | ISSUED FOR BIDDING | 28-APR-2017 |

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|---|----------------------|---|
| A | detail no. | A |
| B | location drawing no. | B |
| C | drawing no. | C |

project
NHRC MECHANICAL UPGRADES BOILERS REPLACEMENT
 NATIONAL HYDROLOGY RESEARCH CENTRE
 11 INNOVATION BOULEVARD
 SASKATOON, SASKATCHEWAN

BOILER ROOM EXISTING SYSTEMS AND DEMOLITION

| | | | |
|-------------|------------|--------------|--|
| Designed By | MIG | Conçu par | |
| Date | 2017/04/28 | (yyyy/mm/dd) | |
| Drawn By | MIG | Dessiné par | |
| Date | 2017/04/28 | (yyyy/mm/dd) | |
| Reviewed By | DH | Examiné par | |
| Date | 2017/06/19 | (yyyy/mm/dd) | |
| Approved By | DH | Approuvé par | |
| Date | 2017/06/23 | (yyyy/mm/dd) | |

| | | |
|-------------|--------------|---------------------------|
| Tender | NIKOLAS FEHR | Administrateur de projets |
| EC Proj no. | NHRC-010 | Consultant Proj no. |
| | | 16131 |

Drawing no. M2 No. du dessin