

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 REWORKING 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 EXISTING HOT WATER BOILERS IN THE BOILER ROOM AND ASSOCIATED ACCESSORIES.
- REMOVE EXISTING STEAM BOILER AND ASSOCIATED SYSTEMS.
- 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.
- REMOVE PUMP AND ASSOCIATED ACCESSORIES.
- REMOVE DOMESTIC HOT WATER HEATER AND ASSOCIATED ACCESSORIES.
- REMOVE HOT WATER SYSTEM EXPANSION TANK AND ASSOCIATED ACCESSORIES.
- REMOVE 3 WAY MIXING VALVE.
- REMOVE STEAM MANIFOLD AND ASSOCIATED ACCESSORIES.
- REMOVE AND SALVAGE GALAXY BOILER IN THE FAN ROOM.
- REMOVE DECOMMISSIONED STORAGE TANK AND ASSOCIATED ACCESSORIES.
- REMOVE DOMESTIC HOT WATER RECIRCULATION PUMP AND ASSOCIATED ACCESSORIES.
- SUPPLY FAN TO REMAIN.
- DOMESTIC WATER SOFTENER TO REMAIN.
- COORDINATE REMOVAL AND INSTALLATION OF NEW SYSTEMS WITH EXISTING DUCTS AND PIPING BELOW. ALLOW FOR ADJUSTMENTS AS REQUIRED.

**DRAWING LEGEND:**

- EXISTING RETURN PIPE;
- EXISTING SUPPLY PIPE;
- REMOVED PIPE.

|           |                         |             |
|-----------|-------------------------|-------------|
| 1         | ISSUED FOR CONSTRUCTION | 30-JUN-2017 |
| 0         | ISSUED FOR REV. REVIEW  | 28-APR-2017 |
| revisions | description             | date        |
| A         | detail no.              | A           |
| C         | location drawing no.    | B           |
|           | our design no.          | C           |
|           | drawing no.             |             |
|           | design no.              |             |

project

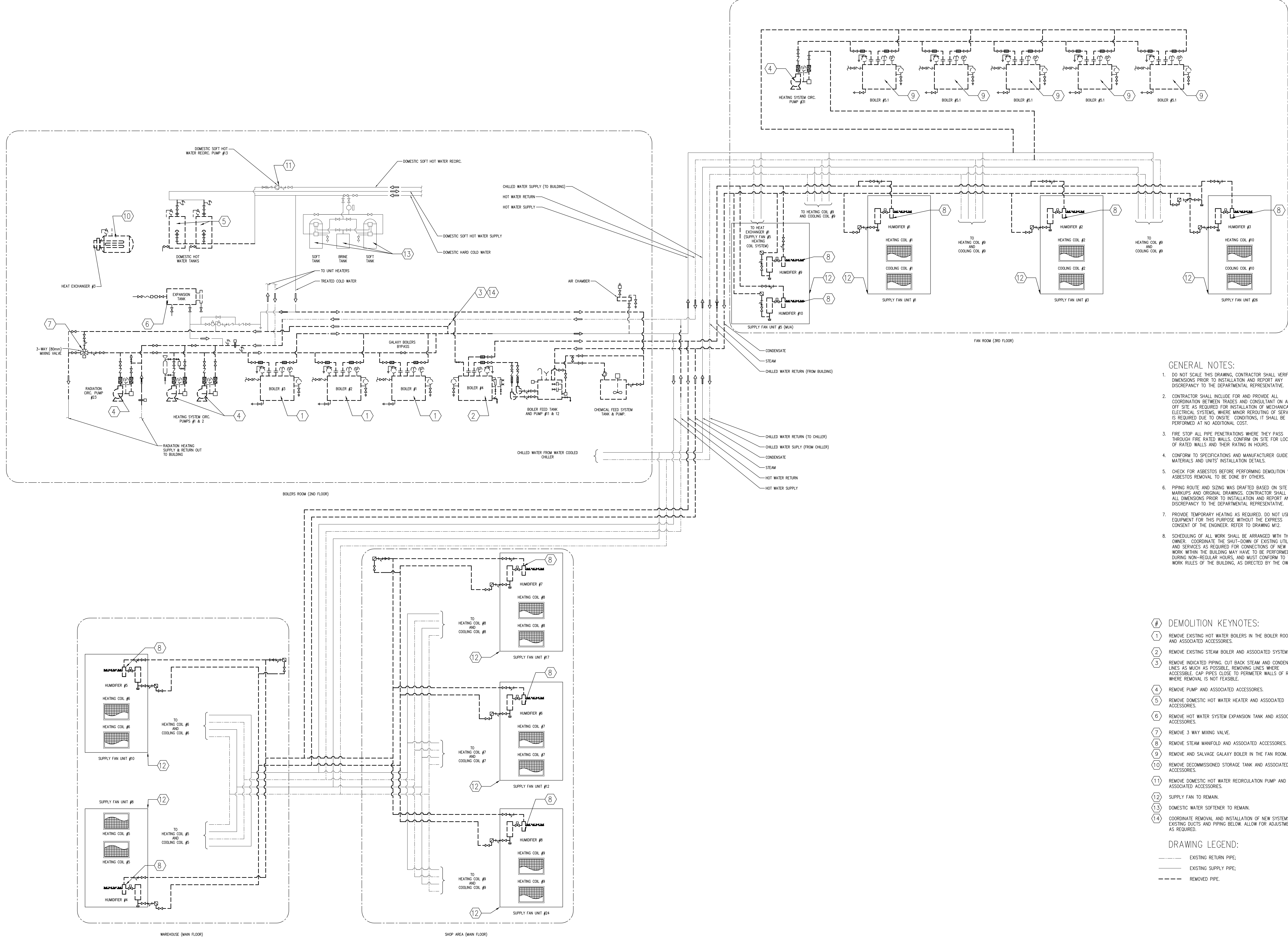
**NHRC  
MECHANICAL UPGRADES  
BOILERS REPLACEMENT**

NATIONAL HYDROLOGY RESEARCH CENTRE  
11 INNOVATION BOULEVARD  
SASKATOON, SASKATCHEWAN

**MECHANICAL DIAGRAMS  
EXISTING SYSTEMS  
AND DEMOLITION**

|                 |              |                           |       |
|-----------------|--------------|---------------------------|-------|
| Designed By     | MG           | Conçu par                 |       |
| Date            | 2017/04/28   | (yyyy/mm/dd)              |       |
| Drawn By        | MG           | 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 |       |
| Project Manager |              | Consultant Proj. no.      |       |
| EC Proj. no.    | NHRC-010     |                           | 16131 |
| Drawing no.     |              | No. du dessin             |       |

M8



1 MECHANICAL DIAGRAMS - EXISTING SYSTEMS AND DEMOLITION  
MB N.T.S.