

BUILDING KEY PLAN

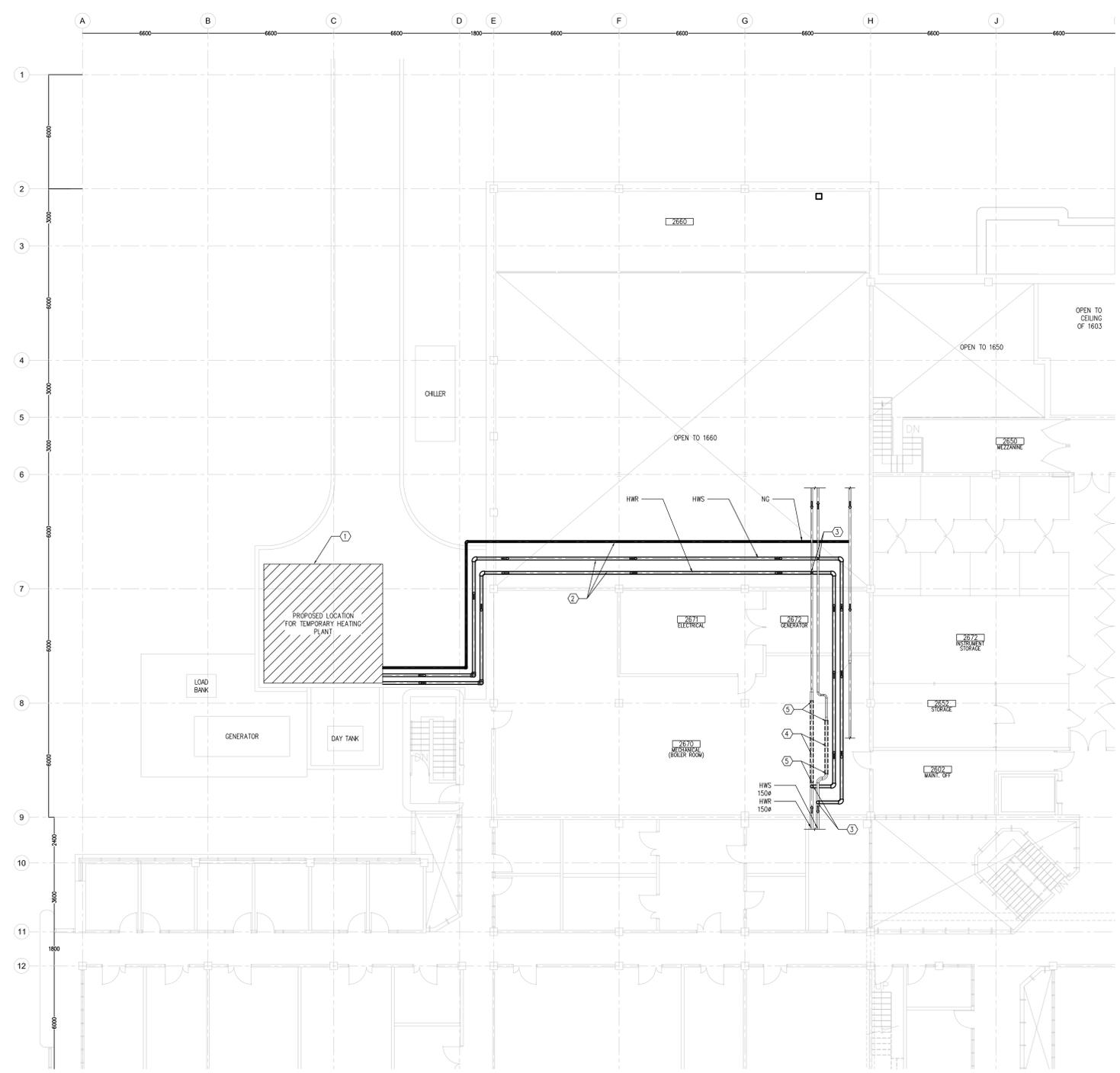
LEGEND

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.
- 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.

DRAWING KEYNOTES:

- PROPOSED LOCATION ON GROUND FLOOR FOR THE INSTALLATION OF TEMPORARY HEATING PLANT COMPLETE WITH BOILERS, PUMPS AND ACCESSORIES.
- PROVIDE AND CONNECT TEMPORARY HOT WATER AND NATURAL GAS PIPING TO TEMPORARY HEATING PLANT. LINES TO BE INSTALLED UNDERSIDE OF ROOF. PROVIDE DROP OUTSIDE OF THE BUILDING FOR CONNECTION WITH TEMPORARY EQUIPMENT. ADJUST POSITION AND PROVIDE SUITABLE SUPPORTS AS REQUIRED. REFER TO SPECIFICATIONS FOR PIPE MATERIAL AND INSULATION.
- CONNECT TEMPORARY HOT WATER LINES TO EXISTING HOT WATER RETURN AND SUPPLY PIPING. VERIFY ON SITE BEST LOCATION FOR CONNECTIONS.
- PIPING TO BE REMOVED FOR INSTALLATION OF NEW BOILERS IN THE MECHANICAL ROOM. REFER TO DRAWING M2 FOR MORE DETAILS.
- CAP SUPPLY AND RETURN PIPES IN THE MECHANICAL ROOM THAT WILL REMAIN FOR THE CONNECTION OF TEMPORARY HOT WATER LINES. VERIFY ON SITE ALL PIPES TO BE CAPPED.



1 TEMPORARY HEATING - PROPOSED EQUIPMENT LOCATION  
 M12 1:100

NOTE:  
 THIS DRAWING IS FOR CONTRACTOR'S REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND IMPLEMENTING TEMPORARY HEATING FOR THE DURATION OF THE PROJECT. TEMPORARY HEATING SHALL BE EQUAL IN CAPACITY TO THE BUILDING HEATING SYSTEM.



Association of Professional Engineers & Geoscientists of Saskatchewan  
 CERTIFICATE OF AUTHORIZATION  
 HDK Consulting Incorporated  
 Number 20140  
 Permission to Consult held by:  
 Discipline Sk. Reg. No. Signature  
 MECHANICAL 30273



| revisions | description               | date        |
|-----------|---------------------------|-------------|
| 1         | ISSUED FOR CONSTRUCTION   | 30-JUN-2017 |
| 0         | ISSUED FOR BIDDING REVIEW | 28-APR-2017 |

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

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

TEMPORARY HEATING PROPOSED EQUIPMENT LOCATION

|                    |                     |
|--------------------|---------------------|
| Designed By<br>MIG | Conçu par<br>MIG    |
| Date<br>2017/04/28 | (yyyy/mm/dd)        |
| Drawn By<br>MIG    | Dessiné par<br>MIG  |
| Date<br>2017/04/28 | (yyyy/mm/dd)        |
| Reviewed By<br>DHT | Examiné par<br>DHT  |
| Date<br>2017/06/19 | (yyyy/mm/dd)        |
| Approved By<br>DHT | Approuvé par<br>DHT |
| Date<br>2017/06/23 | (yyyy/mm/dd)        |
| Tender             | Submission          |

Project Manager  
 NIKOLAS FEHR  
 EC Proj no.  
 NHRC-010

Administrateur de projets  
 Consultant Proj no.  
 16131  
 Drawing no.  
 M12