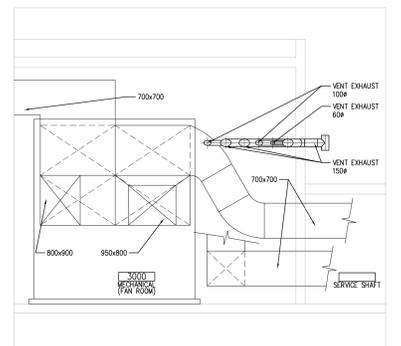


BUILDING KEY PLAN

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. CONFORM 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.

- # NEW SYSTEMS KEYNOTES:**
- PROVIDE FOUR NEW GAS-TO-STEAM HUMIDIFIER. PROVIDE STEAM LINES AND CONNECT SYSTEMS TO NEW STEAM MANIFOLD INSTALLED IN THE RESPECTIVE AHU / DUCTWORK.
 - PROVIDE NEW EXHAUST VENT THROUGH EXTERIOR WALL TO OUTDOOR WITH TERMINAL EXHAUST "TEE". COORDINATE POSITION ON-SITE TO MAINTAIN MINIMUM SEPARATION DISTANCE OF 5m FROM AIR INTAKE.
 - PROVIDE NEW STEAM MANIFOLD AS PER SYSTEM CAPACITY, ACCORDING TO MANUFACTURER'S SIZING RECOMMENDATION AND AIR HANDLER / DUCT DIMENSIONS.
 - NEW STEAM LINE, AS PER MANUFACTURER'S RECOMMENDATIONS (TYPICAL).
 - CONNECT NEW EQUIPMENT TO EXISTING NATURAL GAS SYSTEM.
 - CONNECT NEW EQUIPMENT TO EXISTING DRAIN AND WATER SYSTEMS.
 - MUA SYSTEM HAS TWO MAIN SUPPLY DUCTS (EAST AND WEST SUPPLY AIR DUCTS). PROVIDE ONE STEAM MANIFOLD IN EACH SUPPLY DUCT WITH HALF THE HUMIDIFIER STEAM CAPACITY.
 - EXTEND HOUSEKEEPING PAD TO ACCOMMODATE NEW HUMIDIFIERS.
 - PROVIDE NEW COMBUSTION AIR INTAKE SYSTEM COMPLETE WITH TRAP. CONNECT DUCT TO EXISTING LOUVER.
 - COORDINATE REMOVAL AND INSTALLATION OF NEW SYSTEMS WITH EXISTING DUCTS AND PIPING BELOW. ALLOW FOR ADJUSTMENTS AS REQUIRED.



A VENT EXHAUST DETAIL
 M5 N.T.S.



Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
HDK Consulting Incorporated
 Number 38340
 Permission to Consult held by:
 Discipline: Mechanical, Sl. Reg. No., Signature
 MECHANICAL 30273



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

A	A detail no.	A
C	B location drawing no.	B
	C our design no.	C
	C drawing no.	
	C design no.	

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

drawing
FAN ROOM NEW SYSTEMS
 design

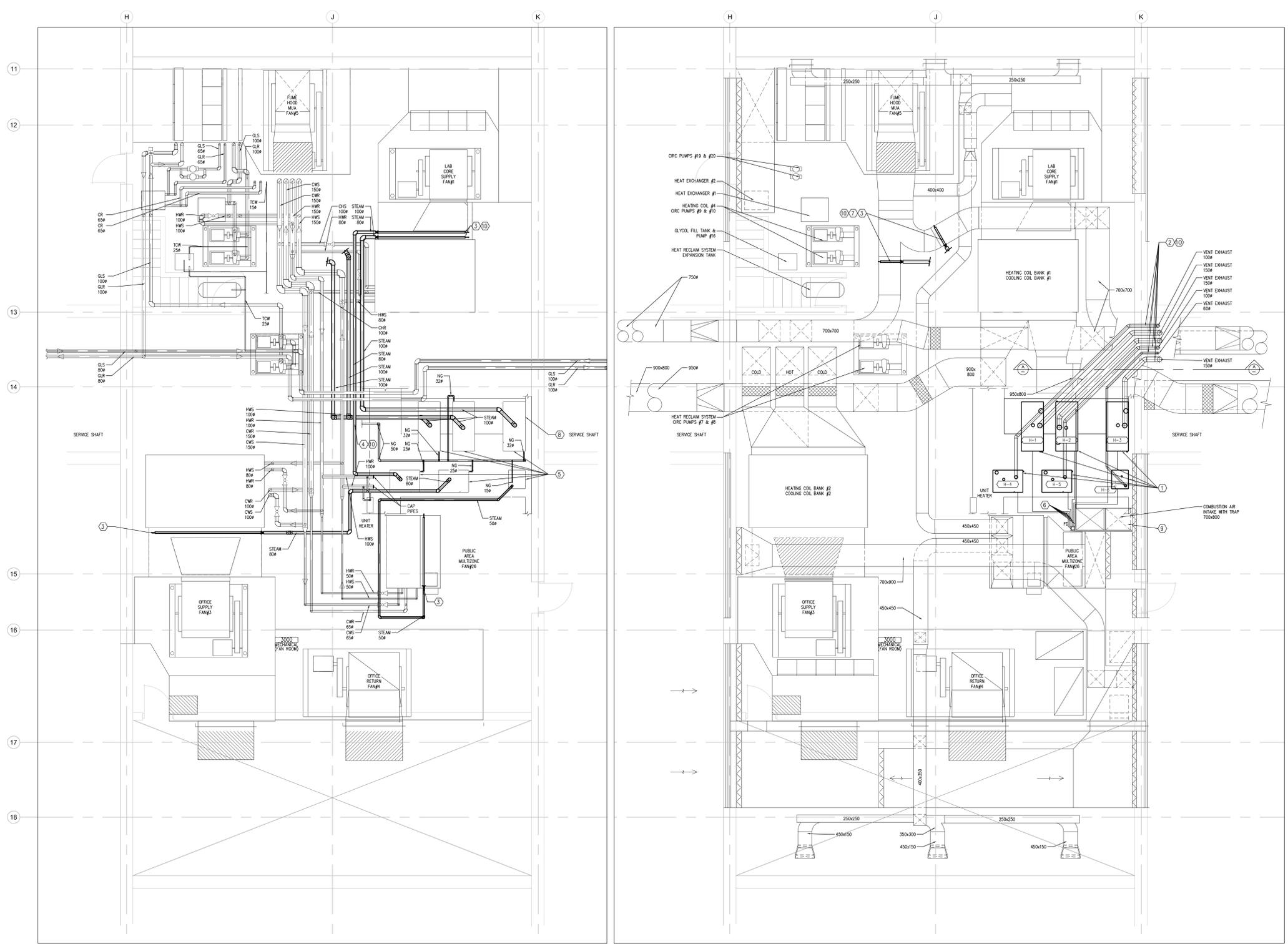
Designed By MIG	Conçu par MIG
Date 2017/04/28	(yyyy/mm/dd)
Drawn By MIG	Dessiné par MIG
Date 2017/04/28	(yyyy/mm/dd)
Reviewed By DHT	Examiné par DHT
Date 2017/06/19	(yyyy/mm/dd)
Approved By DHT	Approuvé par DHT
Date 2017/06/23	(yyyy/mm/dd)
Tender	Submission

Project Manager
 NIKOLAS FEHR
 Administrateur de projets

EC Proj no.
NHRC-010

Consultant Proj no.
16131

Drawing no.
M5
 No. du dessin



1 FAN ROOM - NEW SYSTEMS (PIPING)
 M5 1:30

2 FAN ROOM - NEW SYSTEMS (HVAC)
 M5 1:30