

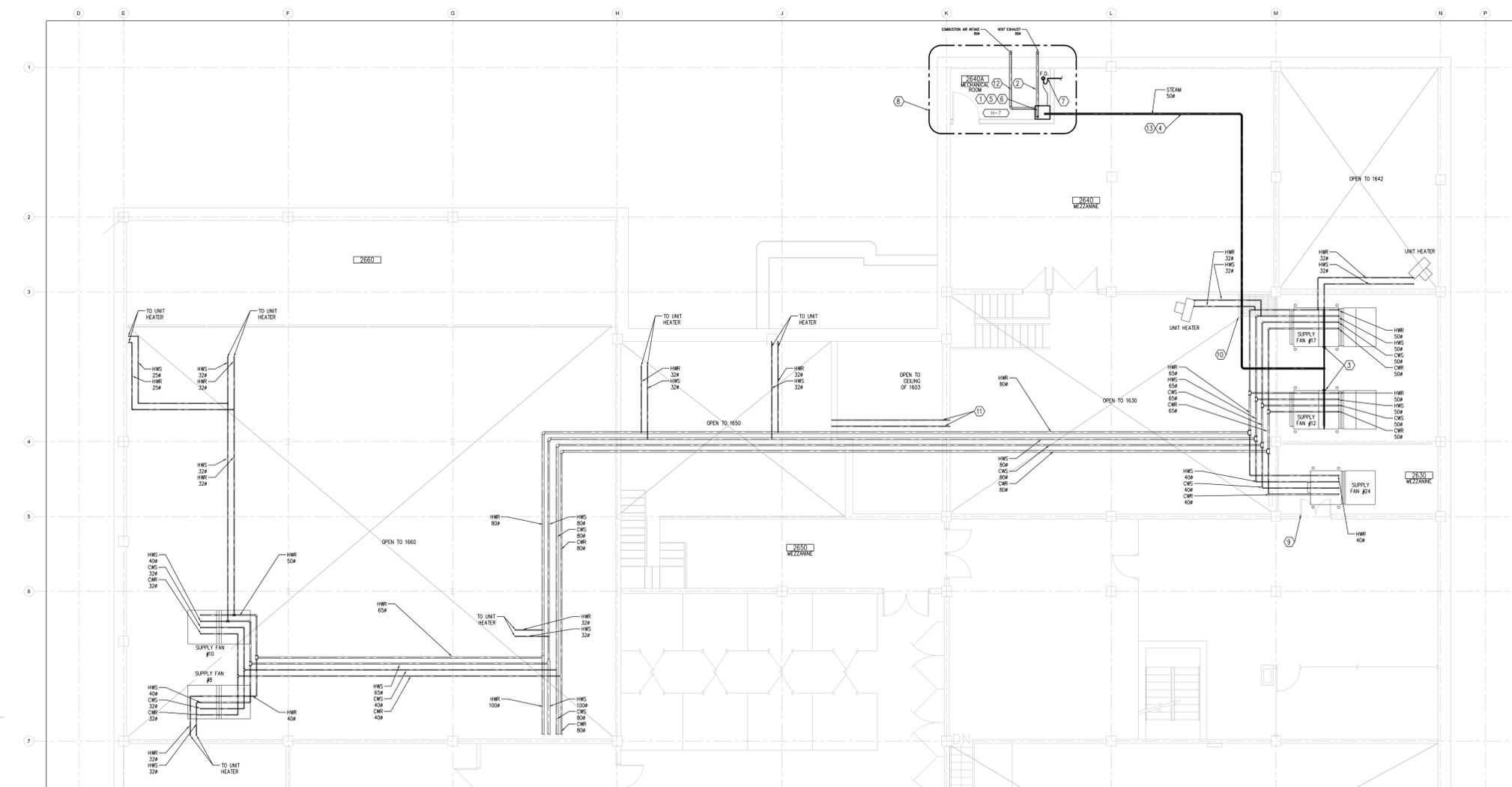
BUILDING KEY PLAN

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 NEW GAS-TO-STEAM HUMIDIFIER. PROVIDE STEAM LINE AND CONNECT SYSTEM TO STEAM MANIFOLD IN THE RESPECTIVE AHU.
- PROVIDE NEW EXHAUST VENT. VERIFY BEST POSITION ON-SITE AND CREATE NEW WALL PENETRATION TO EXTERIOR.
- PROVIDE NEW STEAM MANIFOLD AS PER SYSTEM CAPACITY, ACCORDING TO MANUFACTURER'S SIZING RECOMMENDATION AND AHU DIMENSIONS. TYPICAL OF TWO.
- NEW STEAM LINE, AS PER MANUFACTURER'S RECOMMENDATIONS.
- CONNECT NEW EQUIPMENT TO EXISTING NATURAL GAS SYSTEM.
- CONNECT NEW EQUIPMENT TO EXISTING DRAIN AND WATER SYSTEMS.
- PROVIDE NEW FLOOR DRAIN. CONNECT TO DRAIN LINE IN THE WELDING ROOM (1643), ON THE MAIN FLOOR.
- NEW FIRE RATED ROOM. REFER TO ARCHITECTURAL DRAWING FOR MORE DETAILS.
- NEW DOOR TO MEZZANINE. REFER TO ARCHITECTURAL DRAWING FOR MORE DETAILS.
- NEW CATWALK. REFER TO STRUCTURAL DRAWINGS FOR MORE DETAILS.
- DECOMMISSION STEAM AND CONDENSATE PIPES THAT COULD NOT BE REMOVED. CAP PIPES AND PATCH WALL.
- PROVIDE NEW COMBUSTION AIR INTAKE. VERIFY BEST POSITION ON-SITE AND CREATE NEW WALL PENETRATION TO EXTERIOR.
- COORDINATE REMOVAL AND INSTALLATION OF NEW SYSTEMS WITH EXISTING DUCTS AND PIPING BELOW. ALLOW FOR ADJUSTMENTS AS REQUIRED.



1 SHOP AREA - NEW SYSTEMS
 M7 1/25



Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
HDK Consulting Incorporated
 Number: 30146
 Permission to Consult held by:
 Discipline: Mechanical, Sk. Reg. No.: 30273, Signature: [Signature]



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0	ISSUED FOR BIDDING REVIEW	28-APR-2017

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B	B location drawing no.	B
C	C drawing no.	C

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

drawing: SHOP AREA
 design: NEW SYSTEMS

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