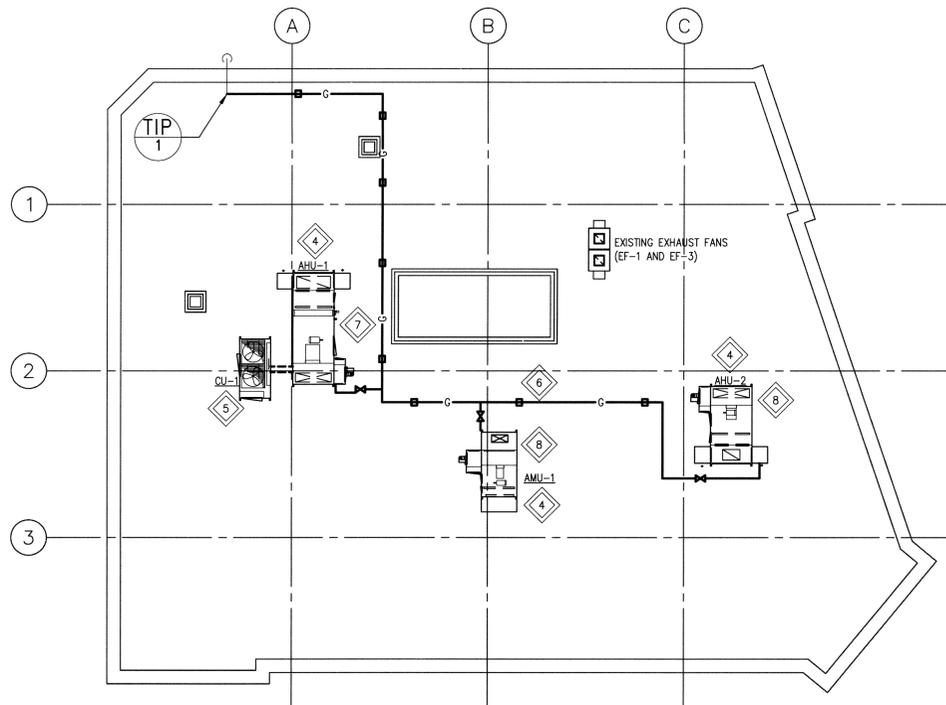
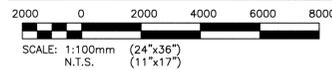
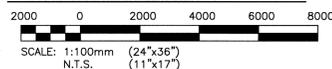


1 ROOF PLAN - HVAC DEMOLITION



2 ROOF PLAN - NEW HVAC



LEGEND:

- NEW EQUIPMENT/DUCTWORK/PIPING
- EXISTING EQUIPMENT/DUCTWORK/PIPING
- G NATURAL GAS PIPING
- REFRIGERANT PIPING
- AMU AIR MAKE-UP UNIT
- AHU AIR HANDLING UNIT
- CU CONDENSING UNIT
- ☐ SUPPLY AIR
- ☐ RETURN AIR
- TIP 1 TIE IN POINT

GENERAL NOTES:

1. PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
2. REVIEW EQUIPMENT LOCATIONS WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.
3. EQUIPMENT LOCATIONS, DUCT, AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. REROUTE DUCTWORK AND PIPING AS REQUIRED TO ELIMINATE FIELD INTERFERENCES WITH BUILDING STRUCTURES, ELECTRICAL, ETC. CONFIRM CHANGES WITH DEPARTMENTAL REPRESENTATIVE. COORDINATE WORK WITH ALL SUBTRADES. WHERE DIMENSIONS ARE INDICATED FOR PIPING, DUCTWORK, DUCT SIZES, EQUIPMENT SIZES, ETC., THESE ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT, DUCTWORK, AND PIPING FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE SYSTEMS.
4. CONFORM TO SMACNA STANDARDS FOR SUPPLY AND INSTALLATION OF DUCTWORK.
5. PROVIDE ALL ROOF, WALL AND FLOOR PENETRATIONS. SEAL AIR AND WATER TIGHT. FIRESTOP ALL PENETRATIONS WHERE REQUIRED TO MATCH EXISTING FIRE RATING. INFORMATION ON FIRESTOPPING TO BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
6. X-RAY ALL PENETRATIONS THROUGH CONCRETE PRIOR TO INSTALLATION.

KEYNOTES:

- 1 REMOVE EXISTING ROOFTOP AIR HANDLING UNITS AND AIR MAKE-UP UNIT AND DISPOSE OF OFF SITE. REMOVE ASSOCIATED CONTROLS AND ROOFTOP DUCTWORK FROM THE ROOF TO THE UNDERSIDE OF THE UNIT.
- 2 REMOVE EXISTING 10 TON CONDENSING UNIT AND TURN OVER TO THE DEPARTMENTAL REPRESENTATIVE. REMOVE EXISTING REFRIGERANT PIPING TO AND FROM AHU-1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT FEDERAL HALOCARBON REGULATIONS, MANITOBA REGULATION MR 193, AND THE OZONE DEPLETING SUBSTANCES ACT.
- 3 REMOVE EXISTING OUTDOOR GAS PIPING AND WOODEN PIPE SUPPORTS ON ROOF UP TO TIE IN POINT SHOWN.
- 4 SUPPLY AND INSTALL NEW AIR HANDLING UNITS AND AIR MAKE-UP UNIT ON ROOF. PROVIDE DUCT TRANSITION AS REQUIRED TO TIE INTO EXISTING ROOF PENETRATIONS FOR SUPPLY AND RETURN DUCTWORK. UNITS ARE SUPPORTED 450mm ABOVE ROOF. DETAILS ON STRUCTURAL DRAWINGS. COORDINATE INSTALLATION WITH STRUCTURAL. PROVIDE NEW REMOTE CONTROL PANEL IN MECHANICAL ROOM B-05. REFER TO CONTROLS SCHEMATIC ON DRAWING H02.
- 5 SUPPLY AND INSTALL NEW CONDENSING UNIT CU-1 AND REFRIGERANT PIPING TO TIE INTO NEW AHU-1. ROOF CURB BY STRUCTURAL.
- 6 PROVIDE NEW GAS PIPING TO TIE EXISTING GAS LINE INTO ROOFTOP UNITS COMPLETE WITH FITTINGS AS REQUIRED. SUPPORT ROOFTOP PIPING WITH NEW NEOPRENE MANUFACTURED SUPPORTS, LABEL PIPING AND PAINT YELLOW. CONTRACTOR RESPONSIBLE FOR SIZING AND DESIGNING GAS DISTRIBUTION.
- 7 PROVIDE INSULATION AND JACKETING FOR ROOFTOP DUCTWORK ASSOCIATED WITH AHU-1.
- 8 UNIT TO BE SUPPORTED ON AN INSULATED ROOF CURB PROVIDED BY STRUCTURAL. REFER TO DRAWING S02. MECHANICAL CONTRACTOR TO FINISH SEALING UNIT TO CURB WITH INSULATED DRIP EDGES AFTER SETTING ON CURB. COORDINATE INSTALLATION WITH STRUCTURAL.

NATURAL GAS LOADS		
UNIT TAG	INPUT (BTU/H)	REQUIRED GAS PRESSURE AT UNIT (CONFIRM WITH VENDOR)
AHU-1*	360,000	7" W.G. MINIMUM
AHU-2*	200,000	7" W.G. MINIMUM
AHU-3*	200,000	7" W.G. MINIMUM
TOTAL	760,000	

*REQUIRES 5 PSI GAS SERVICE TO BUILDING. CONTRACTOR TO CONFIRM ON SITE CONDITIONS WITH UTILITY.



DO NOT SCALE DRAWINGS

0	ISSUED FOR CONSTRUCTION	13/05/29
Revision/	Description/Description	Date/Date

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
 100-167 LOMBARD AVENUE
 WINNIPEG MB R3C 2Z1

Project title/Titre du projet
**REPLACEMENT OF AIR HANDLING UNITS
 OSBORNE CORRECTIONAL COMMUNITY CENTRE
 1048 MAIN STREET, WINNIPEG, MB**

Approved by/Approve par
 RLG
 Designed by/Concept par
 TJC
 Drawn by/Dessiné par
 TJC
 PWGSC Project Manager/Administrateur de Projets TPSGC
 TIM LODGE
 PWGSC, Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client
 Drawing title/Titre du dessin
**MECHANICAL
 ROOF PLAN
 DEMOLITION AND NEW HVAC**



Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.058521.001	H01 OF 03	0