



KEY PLAN

- KEY NOTES**
- 1 NEW U600-MUA UNIT, INSTALLED IN TUNNEL FAN ROOM, SAME LOCATION AS PREVIOUS UNIT; UNIT DIMENSIONS, 4500mm x 1980mm x 1760mm HIGH, SPLIT IN 4 (FOUR) SECTIONS FOR UNIT ACCESS INTO FAN ROOM.
  - 2 PROVIDE NEW UNIT INLET OPENING TRANSITION TO EXISTING INLET PLENUM, INSULATED; NEW UNIT OUTSIDE AIR OPENING DIMENSIONS, 1875x1650.
  - 3 PROVIDE NEW OUTLET OPENING TRANSITION TO EXISTING S/A AIR DUCT, INSULATED; NEW U600 SUPPLY AIR OPENING DIMENSIONS, 925x1075.
  - 4 CONNECT EXISTING N. GAS LINE TO NEW UNIT BURNER SECTION, C/W NEW GAS REGULATOR, ISOLATION VALVE DRIP LEG AND SWING JOINT.
  - 5 EXISTING BALANCING DAMPERS, TYP.
  - 6 EXISTING R/A DUCT TO MAIN FLOOR NEW U640-AHU UNIT R/A DUCT MAIN; NO CHANGES TO DUCTWORK AT LOWER LEVEL, EXCEPT NEW R/A GRILLE IN ROOM U123.
  - 7 EXISTING INSULATED S/A DUCT FROM MAIN LEVEL NEW U640-AHU S/A DUCT; NO CHANGES TO DUCTWORK AT LOWER LEVEL.
  - 8 BALANCE AIR TERMINAL AIR FLOWS TO AIR FLOWS SHOWN, TYP.
  - 9 PROVIDE NEW R/A BOOT, C/W R/A GRILLE AND BALANCING DAMPER AT EXISTING R/A OPEN DUCT; BALANCE TO CFM SHOWN.
  - 10 EXISTING HOUSEKEEPING PAD TO BE RE-USED
  - 11 RE-CONNECT AND RUN EXISTING DRAIN FROM O/A AIR PLENUM TO EXISTING FLOOR DRAIN; RUN DRAIN LINE FROM UNIT DRAIN PAN TO EXISTING FUNNEL DRAIN
  - 12 EXISTING STRAIGHT DUCT SLEEVE AND TRANSITION TO WALL, C/W FIRE DAMPER ACCESS DOOR, TRIM TRANSITION TO SUIT NEW U600-MUA INSTALLATION.
  - 13 EXTEND BOOT AND PROVIDE BALANCING DAMPER
  - 14 NEW 600Wx1500H INTAKE PLENUM SERVICE ACCESS DOOR, INSULATED; PROVIDE ANGLE FRAME, TO MAINTAIN DUCT STR. INTEGRITY
  - 15 PROVIDE TRANSFER DUCT SLEEVE, FLANGED, ANCHORED TO WALL, C/W BALANCING DAMPER AND FACE GRILLE, REMOVE EXISTING WALL GRILLE; BALANCE TO CFM SHOWN.
  - 16 PROVIDE INTERIOR GALV. STEEL LINER, UP TO MAIN FLOOR LEVEL ON DUCT WALLS; SEAL AIR TIGHT AT NEW SERVICE PLATFORM AT MAIN FLOOR LEVEL
  - 18 NEW 38ø PVC DRAIN LINE; INCREASE SIZE OF DRAIN OPENING INSIDE DUCT; USE FABRICATED STRAINER AT BOTTOM OF PLENUM; RUN PIPE, TO FLOOR DRAIN; DISCHARGE WITH OPEN PIPE END ON TOP OF NEW STRAINER; PROVIDE REMOVABLE C/O AS SHOWN.

**A** AREA U - UTILITY LOWER LEVEL VENTILATION - NEW CONDITIONS  
SCALE 1:75

- GENERAL NOTES**
1. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND PROVINCIAL MECHANICAL ENGINEERING & INSPECTIONS BRANCH REQUIREMENTS.
  2. COORDINATE WORKS WITH OTHER SUB-TRADES. REFER TO SPECIFIC DETAILS FOR CUTTING AND SEALING PENETRATIONS THROUGH OPENINGS & FIRE SEPARATIONS.
  3. REFER TO TECHNICAL SPECIFICATIONS FOR EQUIPMENT AND MATERIAL SPECIFICATIONS AND INSTALLATION CONSTRUCTION AND PHASING REQUIREMENTS.
  4. INSULATE DUCTWORK WHERE INDICATED AND SPECIFIED.
  5. SUPPORT ALL DUCTWORK TO MEET CODE REQUIREMENTS & ESTABLISHED INDUSTRY TRADE PRACTICES, (SMACNA, ASHRAE).
  6. INVESTIGATE SITE PRIOR TO CONSTRUCTION TO CONFIRM ALL DIMENSIONS AND INSTALLATION REQ'S.
  7. PERFORM ALL CUTTING & PATCHING NECESSARY FOR ANY REQUIRED OPENINGS.
  8. PROVIDE TAB TO ENSURE AIR DISTRIBUTION TO VOLUMES INDICATED.
  9. NOT ALL EQUIPMENT/PIPING, ETC. IS SHOWN.



B.M. ELEV.	FIELD BOOK #:
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**ALLIANCE**  
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DESIGNED BY AFG/JC CHECKED BY AFG  
DRAWN BY AS APPROVED BY  
HOR. SCALE 1:75 RELEASED FOR CONSTRUCTION  
VERTICAL DATE 2010-08-23 DATE

ENGINEER'S SEAL  
PROVINCE OF MANITOBA  
A.F.G.  
GOSSEN  
REGISTERED PROFESSIONAL ENGINEER  
CONSULTANT DRAWING NO. UM6.1

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

2010 HVAC REPLACEMENT AND ASSOCIATED WORKS  
WEWPCC  
AREA U - UTILITY BUILDING LOWER LEVEL VENTILATION - NEW CONDITIONS

SHEET 1 OF 1  
CITY DRAWING NUMBER 1-0103V-M0041-001