

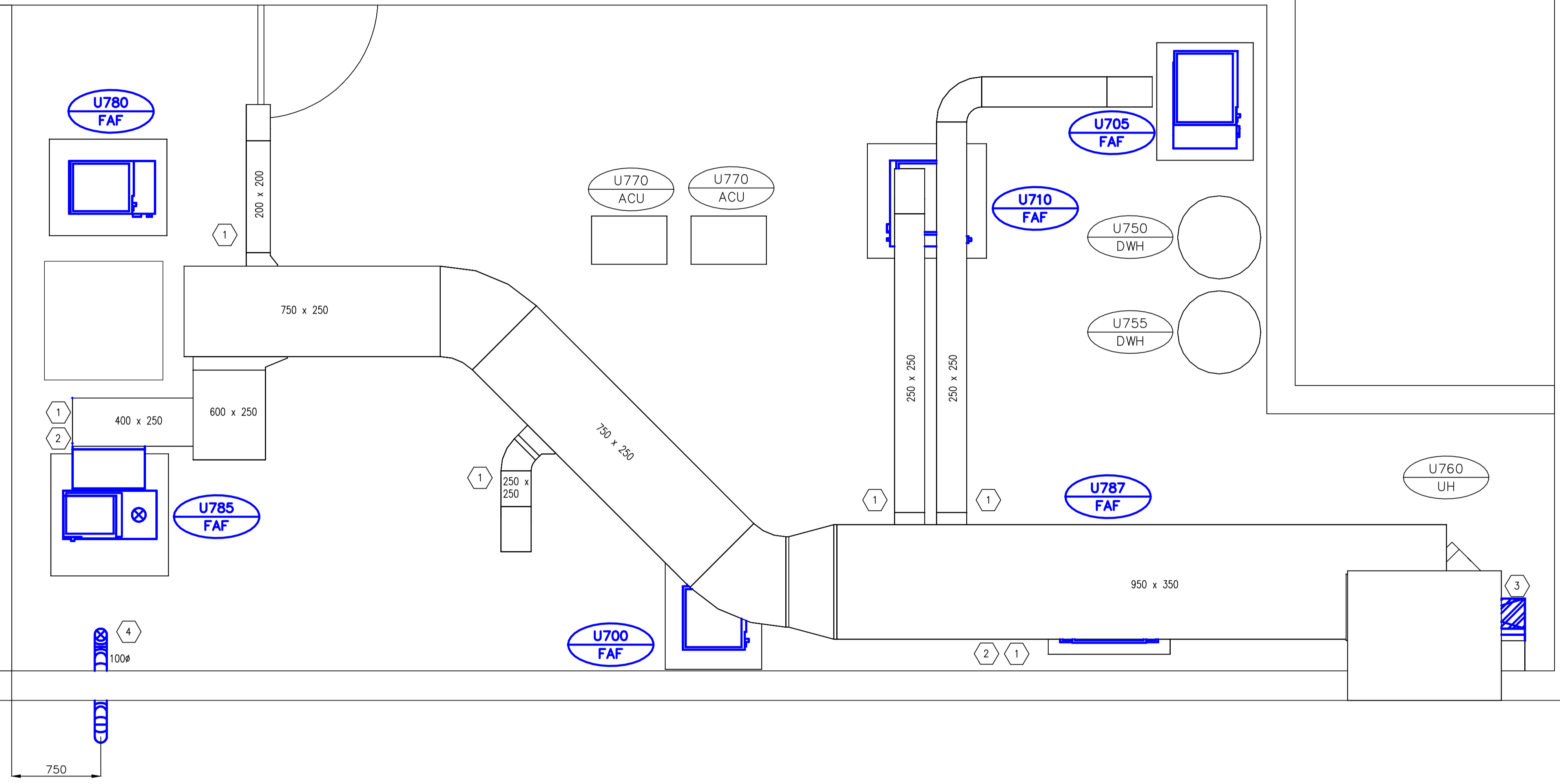
KEY PLAN

NOTES

1. NEW DUCTING TO BE INSTALLED AND CONNECTED TO THE EXISTING SYSTEM AS SHOWN. MORE INFORMATION CAN BE FOUND IN DETAILED SECTIONS FOUND IN THIS DRAWING PACKAGE.
2. INSULATE ALL EXPOSED OUTSIDE AIR DUCTING.

KEY NOTES

- 1 PROVIDE FUNCTIONING BALANCING DAMPER FOR EACH INDIVIDUAL FURNACE ON OUTSIDE AIR DUCTING BRANCHES.
- 2 NEW OUTSIDE AIR DUCTING SHALL BE PROVIDED DIRECTLY TO UNITS U785 AND U787. SEE DETAILED SECTIONS TAKEN FROM DRAWING UM4.2 FOR MORE DETAILED INFORMATION.
- 3 COMBUSTION AIR INTAKE IS TO BE HAVE VERTICAL SECTION SHORTENED IN ORDER TO LOCATE THE OUTLET AS HIGH AN ELEVATION AS POSSIBLE WHILE MAINTAINING A 300MM DISTANCE FROM ANY INTERFERENCES ABOVE.  
REUSE AS MUCH DUCT AS POSSIBLE.  
COVER OUTLET OF DUCT WITH SHEET METAL AND CUT HOLE SIZED 400MM X 200MM TO PROVIDE COMBUSTION AIR FOR ROOM.  
INSTALLATION SHALL MEET ALL APPLICABLE CODES AND STANDARDS.
- 4 NEW VENTILATION AIR INTAKE SHALL BE 100MMØ STAINLESS STEEL DUCTING, C/W INVERTED TRAP & INSECT SCREEN; DUCT INSULATED WITHIN MECHANICAL ROOM..  
DUCTING SHALL BE LOCATED TO MAINTAIN INLET 600MM ABOVE GRADE LEVEL AND OUTLET 300MM FROM INTERFERENCES ABOVE.  
PROVIDE PIPE SLEEVE AND LINK SEAL FOR NEW WALL PENETRATION.  
INSTALLATION SHALL MEET ALL APPLICABLE CODES AND STANDARDS.



**A** MECHANICAL ROOM – OUTSIDE AIR DUCTING LAYOUT  
SCALE 1:25

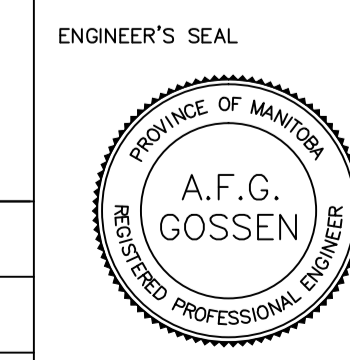
GENERAL NOTES

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 #:  |
| POSTED TO LBIS    |                |
| DESIGNED BY       | DD             |
| CHECKED BY        |                |
| DRAWN BY          | DD             |
| APPROVED BY       |                |
| HOR. SCALE        | 1:50           |
| VERTICAL          |                |
| ISSUED FOR TENDER | 2010-12-21 AFG |
| NO. REVISIONS     | DATE BY        |
|                   | 2010-11-05     |

**ALLIANCE**  
Engineering Services Inc.



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

2010 HVAC REPLACEMENT AND ASSOCIATED WORKS  
WEWPCC  
AREA U – ADMINISTRATION BUILDING  
MECHANICAL ROOM – O/A DUCTING LAYOUT [NEW]

SHEET 1 OF 1  
CITY DRAWING NUMBER  
1-0103V-M0022-001

CONSULTANT DRAWING NO.  
UM4.3