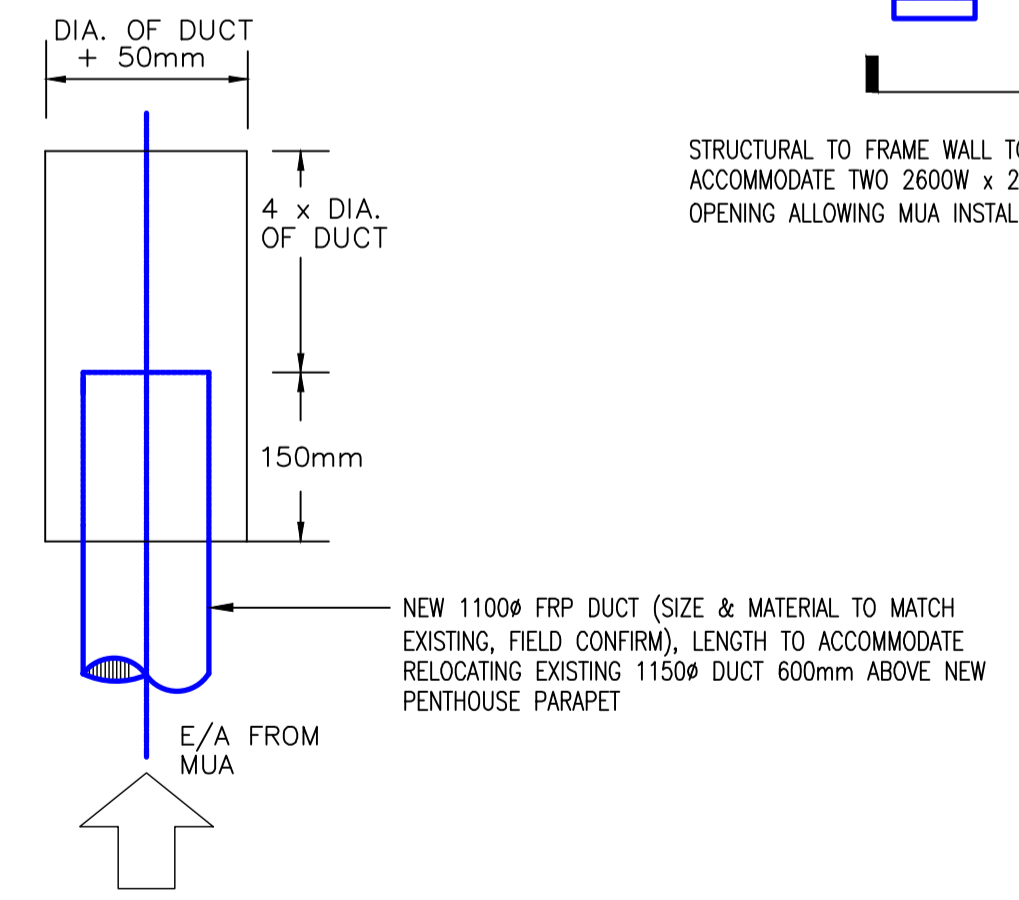


KEY PLAN

KEY NOTES

- 1 NEW PENTHOUSE, SEE STRUCTURAL DRAWINGS FOR DETAILS.
- 2 PROVIDE NEW STAIR ACCESS FROM DISTRIBUTION BUILDING TO NEW PENTHOUSE, SEE STRUCTURAL DRAWINGS SS2.1 THROUGH SS2.5 FOR DETAILS.
- 3 PROVIDE NEW MAKE-UP AIR UNIT, S600, SUPPORT UNIT USING FACTORY SUPPLIED BASE, MOUNTED ON NEW CONC. H.K.P. PAD SIZE AS SHOWN. SEE SPECIFICATIONS AND MANUFACTURE INSTALLATION REQUIREMENTS FOR DETAILS.
- 4 PROVIDE NEW MAKE-UP AIR UNIT, S650, SUPPORT UNIT USING FACTORY SUPPLIED BASE, MOUNTED ON NEW CONC. H.K.P. PAD SIZE AS SHOWN. SEE SPECIFICATIONS AND MANUFACTURE INSTALLATION REQUIREMENTS FOR DETAILS.
- 5 PROVIDE NEW RADIANT UNIT HEATER, S665, SUPPORT UNIT FROM STRUCTURAL ROOF. SEE SPECIFICATIONS AND MANUFACTURE INSTALLATION REQUIREMENTS FOR DETAILS. PROVIDE SWITCH ON A TIMER TO OPERATE UNIT HEATER, SEE ELECTRICAL DRAWINGS FOR DETAILS.
- 6 NEW 2440x1220 PENTHOUSE OUTSIDE AIR INTAKE LOUVER, SEE SPECIFICATIONS & ELEVATION C ON STRUCTURAL DRAWING SS2.2 FOR DETAILS.
- 7 NEW 2440x1220 PENTHOUSE OUTSIDE AIR INTAKE LOUVER, SEE SPECIFICATIONS & ELEVATION C ON STRUCTURAL DRAWING SS2.2 FOR DETAILS.
- 8 REVISED ROOF DRAINAGE SCUPPER LOCATION, FINAL LOCATION TO BE COORDINATED WITH STRUCTURAL.
- 9 STRUCTURE TO FRAME WALL TO ACCOMMODATE TWO 84"X76" H ROUGH OPENINGS USED FOR S600 & S650 MUA INSTALLATION, SEE STRUCTURAL DRAWINGS FOR DETAILS.
- 10 PROVIDE FLOOR DRAIN, SEE SPECIFICATIONS; INSTALL FLOOR DRAIN TO MANUFACTURER'S RECOMMENDATIONS, INSULATE DRAIN PIPING THROUGH UNHEATED CRAWLSPACE BETWEEN EXISTING ROOF AND NEW PENTHOUSE FLOOR; TRAP DRAIN PIPING WITHIN HEATED SPACE BELOW EXISTING ROOF AND DRAIN TO EXISTING DRAIN PIPING HIGH IN PUMP ROOM LEVEL. SEE SM2.1 & SM2.4 FOR DETAILS.
- 11 PROVIDE COMBINED 100# COMBUSTION AIR DUCT & 50# FLUE PIPE COMPLETE WITH WALL TERMINAL. SEE MANUFACTURE INSTALLATION REQUIREMENTS AND SPECIFICATIONS FOR DETAILS.
- 12 PROVIDE CORED HOLE OPENING THROUGH CONC. FLOOR SLAB TO ACCOMMODATE NEW 50# N.GAS PIPE, RUN PIPING AT HIGH ELEVATION, SUPPORT AS SPECIFIED.
- 13 PROVIDE CORED HOLE OPENING THROUGH CONC. FLOOR SLAB TO ACCOMMODATE NEW 50# N.GAS PIPE, RUN PIPING AT HIGH ELEVATION, SUPPORT AS SPECIFIED.
- 14 NEW 5 PSIG 3/8" N.GAS PIPE SUPPLY TO MUA S600 & S650 UNITS, PROVIDE DROP WITH NEW REGULATOR, MANUAL SHUTOFF VALVE, DRIP LEG, REGULATOR VENT PIPING & UNION NEAR GAS CONNECTION SEE SPECIFICATIONS FOR DETAILS. PROVIDE TRANSITION AT UNIT GAS CONNECTION IF REQUIRED.
- 15 PROVIDE OPENING THROUGH NEW PENTHOUSE ROOF TO ACCOMMODATE NEW GAS REGULATOR VENT PIPING, SUPPORT AS SPECIFIED.
- 16 PROVIDE NEW 12# 3/8" (5 PSIG) PIPING TO SUPPLY RELOCATED UH S665. PROVIDE DROP & NEW GAS REGULATOR, MANUAL SHUTOFF VALVE, DRIP LEG & UNION NEAR GAS CONNECTION. PROVIDE TRANSITION AT UNIT GAS CONNECTION AS REQUIRED.
- 17 PROVIDE NEW S665 VENT PIPING FROM THE GAS REGULATOR, PROVIDE NEW ROOF PITCH POCKET FOR NEW VENT PIPING, SUPPORT PIPING AS SPECIFIED.
- 18 NEW ROOF PITCH POCKET FOR NEW S625 VENT PIPING, SEAL PENETRATION WATERTIGHT.
- 19 PROVIDE SECONDARY CLARIFIER #3 GH S760 & S765 300# DOUBLE WALL AL29-4C SAF-T-CI FLUE STACK EXTENSIONS, EXTEND STACKS 600mm ABOVE THE NEW PENTHOUSE PARAPET, REUSE EXISTING RAIN CAP. SEE STRUCTURAL DRAWINGS SM2.1 THROUGH SM2.5 FOR PENTHOUSE DETAILS. FIELD CONFIRM EXISTING FLUE MATERIAL AND PROVIDE CUY WIRE SUPPORTS & SAF-T FITTINGS REQUIRED TO SUPPORT EXTENDED VENT FROM EXISTING ROOF TO MEET MANUFACTURE RECOMMENDATIONS & CODE REQUIREMENTS.
- 20 PROVIDE 1100# MUA S662 FRP STACK DISCHARGE EXTENSION TO ACCOMMODATE RELOCATING THE EXISTING 1150# DUCT TO TERMINATE 600mm ABOVE THE NEW PENTHOUSE PARAPET, SEE DETAIL B. SEE STRUCTURAL DRAWINGS SS2.1 THROUGH SS2.5 FOR PENTHOUSE DETAILS. PROVIDE NEW DUCT SUPPORTS FOR NEW FRP DUCT FROM ADJACENT ROOF, NEW DUCT SUPPORTS TO BE CONFIRMED BY STRUCTURAL.



(B) EXHAUST STACK DETAIL
N.T.S.

(A) AREA S - PENTHOUSE - PLAN
SCALE 1:50

- 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.

APEGN
Certificate of Authorization
Alliance Engineering Services Inc.
No.2906 Date: _____

B.M. ELEV.	FIELD BOOK #:
POSTED TO LBIS	
DESIGNED BY IU	CHECKED BY AG
DRAWN BY IU	APPROVED BY
HOR. SCALE 1:50	RELEASED FOR CONSTRUCTION
VERTICAL 1:50	
00 ISSUED FOR TENDER 2010-12-21 AFG	
NO. REVISIONS	DATE BY
	DATE 2010-02-23

ALLIANCE
Engineering Services Inc.

ENGINEER'S SEAL
A.F.G. GOSSSEN
PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO. SM2.7

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

2010 HVAC REPLACEMENT AND ASSOCIATED WORKS
WEWPCC

AREA S - SECONDARY CLARIFIERS 1 & 2
PENTHOUSE - NEW PLAN

SHEET 1 OF 1
CITY DRAWING NUMBER 1-0103S-M0020-001