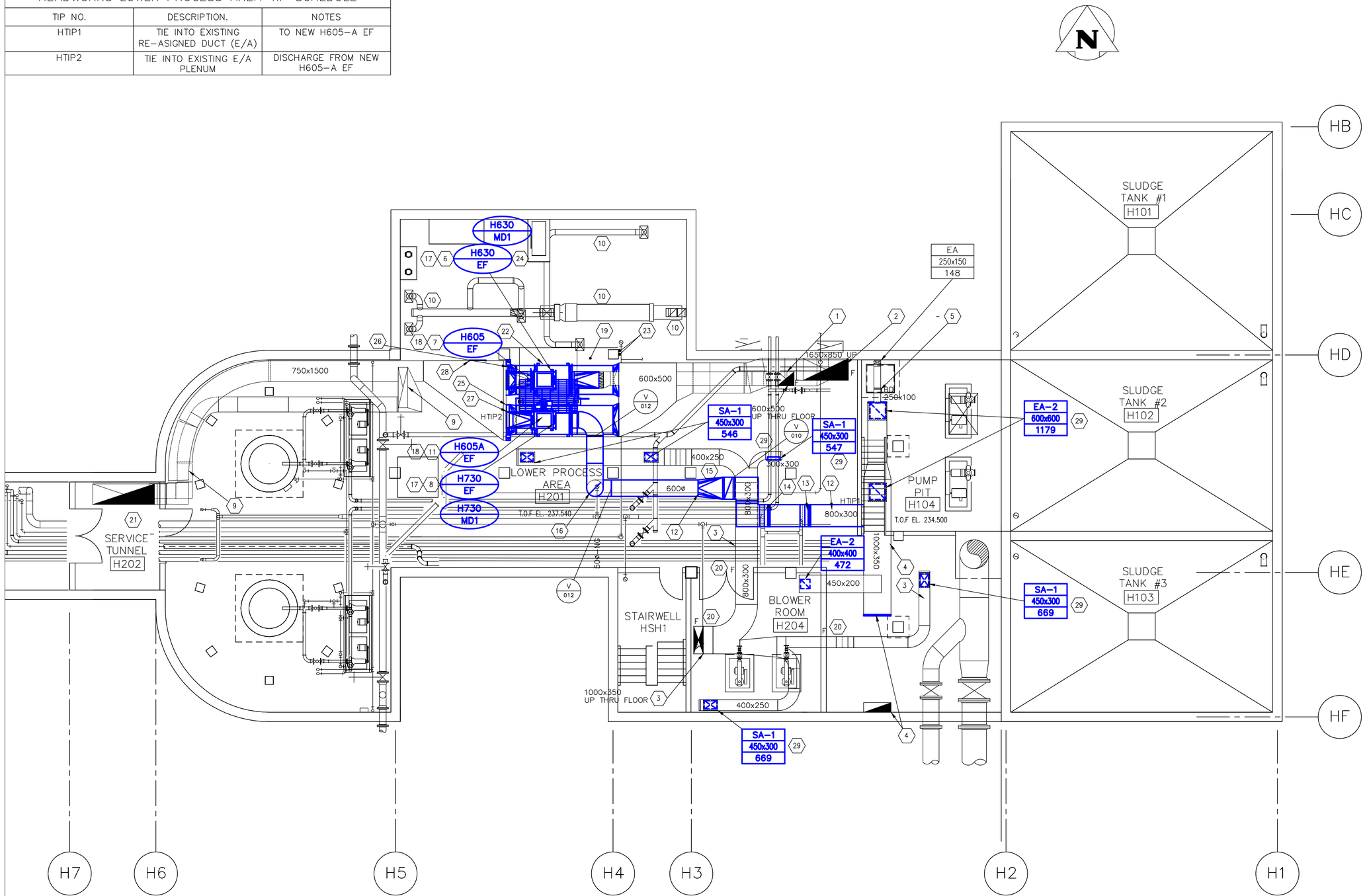
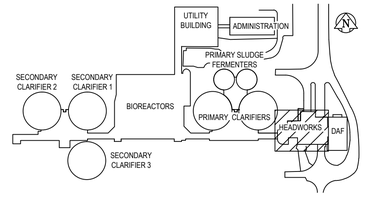
HEADWORKS LOWER PROCESS AREA TIP SCHEDULE

TIP NO.	DESCRIPTION.	NOTES
HTIP1	TIE INTO EXISTING RE-ASIGNED DUCT (E/A)	TO NEW H605-A EF
HTIP2	TIE INTO EXISTING E/A PLENUM	DISCHARGE FROM NEW H605-A EF



A — AREA H – LOWER PROCESS LEVEL – NEW CONDITIONS PLAN

SCALE 1:75



KEY PLAN

KEY NOTES

1. EXISTING 500x600 EXHAUST DUCT, FROM GRIT TRUCK BAY EXHAUST SYSTEM (E/A DUCTWORK FOR H725-MUA); EXISTING DUCTWORK TO REMAIN IN SERVICE. NO DUCTWORK CHANGES REQUIRED ON THE EXHAUST DUCT IN THIS AREA.
2. EXISTING 1650x850 EXHAUST DUCT FROM UPPER PROCESS AREA AND SLUDGE TRUCK BAY (EXHAUST DUCTWORK FOR NEW H600/H650 MUA'S); DUCTWORK SHALL BE REWORKED AT UPPER LEVEL AND AS REQUIRED AT LOWER LEVEL FOR NEW H630/H730 EF'S INSTALLATION.
3. EXISTING 1000x350 S/A DUCT FROM UPPER LEVEL (DUCT FROM NEW H700-MUA); DUCTWORK TO REMAIN IN SERVICE IN EXISTING CONFIGURATION OUTSIDE MECHANICAL ROOM.
4. EXISTING 1000x350 R/A DUCT RETURN AIR DUCT TO BE TERMINATED. CAP R/A DUCT AT START OF VERTICAL OFFSET (REMOVED, SEE DWG. HM1.8) CAP FLOOR OPENING ON FLOOR ABOVE & REMOVE EXISTING FIRE DAMPER; SEE DETAIL V020, DWG. LM2.4; REMAINING R/A DUCTWORK AT LOWER LEVEL, SHALL BE RE-ASSIGNED TO EXHAUST DUCT, PART OF H605A-EF EXHAUST SYSTEM; RETAIN EXISTING GRILLES AND BALANCE TO AIR FLOW VOLUMES SHOWN; REMOVE DUCT THRU OUT TO MECHANICAL ROOM
5. EXISTING 250x100 R/A DUCT, OPEN BOTTOM FROM LOWER PUMP PIT AREA; DUCTWORK SHALL REMAIN AS IT IS, REBALANCE TO NEW FLOW RATE INDICATED; DUCTWORK SHALL BE PART OF NEW H605A-EF EXHAUST SYSTEM.
6. NEW SS EXHAUST FAN, H630-EF, TO REPLACE EXISTING. REMOVE TRANSITIONS, FLEX CONNECTORS, SUPPORTS, VIBRATION ISOLATORS AND ADAPTER FLANGES AS REQUIRED. NOTE NEW SUPPORTS, VIBRATION ISOLATORS, FLANGES, TRANSITIONS AND FLEX CONNECTORS REQUIRED; SEE DETAIL V024 DWG. LM2.5.
7. NEW SS EXHAUST FAN, H605-EF, TO REPLACE EXISTING;. REMOVE TRANSITIONS, FLEX CONNECTORS, SUPPORTS, VIBRATION ISOLATORS AND ADAPTER FLANGES AS REQUIRED. NEW FAN INSTALLATION REQUIRES NEW TRANSITIONS, FLEX CONNECTORS, SUPPORTS , FLANGES & VIBRATION ISOLATORS; SEE DETAIL V024 DWG. LM2.5
8. NEW SS EXHAUST FAN, H730-EF, TO REMOVE EXISTING. REMOVE TRANSITIONS, FLEX CONNECTORS, SUPPORTS, VIBRATION ISOLATORS AND ADAPTER FLANGES AS REQUIRED. NOTE NEW SUPPORTS, VIBRATION ISOLATORS, FLANGES, TRANSITIONS AND FLEX CONNECTORS REQUIRED. SEE DETAIL V024 DWG. LM2.5
9. EXISTING DUCT FROM UPPER FLOOR, PART OF DAF BUILDING EXHAUST SYSTEM, PART OF BNR UPGRADE/2006. DUCTWORK AND EQUIPMENT TO REMAIN IN SERVICE; NO WORK RELATED TO THIS SYSTEM REQUIRED IN THIS CONTRACT IN THIS AREA.
10. EXISTING AIR SCRUBBER & HVAC SYSTEM FOR CONTROL ROOM ABOVE, NIC.
11. NEW SS EXHAUST FAN, H605A-EF, TO BE INSTALLED. NOTE NEW SUPPORTS, VIBRATION ISOLATORS, TRANSITIONS, FLANGES AND FLEX CONNECTORS REQUIRED. SEE DETAIL V024, DWG. LM2.5
12. NEW SS DUCT, SIZE AS SHOWN; FIELD RUN DUCT FROM NEW E/A DUCT (EXISTING DUCT, RE-ASSIGNED R/A) TO NEW IN LINE EXHAUST FAN, H605A-EF. SUPPORT DUCT FROM CONCRETE STRUCTURE ABOVE WITH TRAPEZE HANGERS; ALLOW FOR MIN. 4 VERTICAL OFFSETS AND 2 TRANSITIONS THROUGHOUT DUCT RUN, TO AVOID EXISTING PROCESS PIPING, ELECTRICAL CABLE TRAYS & INSTRUMENT RACES SEE KEY NOTES BELOW
13. 800x300 SS DUCT VERTICAL OFFSET DOWN BETWEEN PROCESS 150ø DRAIN AND 75ø PROCESS WATER LINES; FIELD CHECK AVAILABLE SPACE PRIOR TO FABRICATION; ANY DUCT DIMENSIONAL CHANGE SHALL BE PART OF SCOPE OF CONTRACTOR WORK.
14. 800x300 SS DUCT VERTICAL OFFSET UP PASS CONCRETE BEAM; RUN DUCT ON TOP OF EXISTING S/A DUCT; SUPPORT FROM CONCRETE STRUCTURE; FIELD CHECK AVAILABLE SPACE PRIOR TO FABRICATION; ANY DUCT DIMENSIONAL CHANGE SHALL BE PART OF CONTRACTOR SCOPE OF WORK.
15. 800x300 SS DUCT VERTICAL OFFSET DOWN, TRANSITION TO 600ø ROUND AND RUN TIGHT TO CONCRETE COLUMNS; SUPPORT DUCT FROM CONCRETE STRUCTURE.
16. 600ø SS DUCT UP TO H605A-EF ELEVATION; RUN NORTH AND CONNECT TO EF WITH FLEXIBLE CONNECTOR.
17. EXHAUST FANS H630 & H730 SHALL HAVE THE EL. MOTOR AND BELT DRIVE ORIENTED AT 90° DOWN, TO ALLOW FOR DRIVE SERVICE AND MAINTENANCE AT FLOOR LEVEL.
18. EXHAUST FANS H605 & H605A SHALL HAVE THE EL. MOTOR AND BELT DRIVE ORIENTED UP, TO ALLOW FOR DRIVE SERVICE AND MAINTENANCE AT NEW SERVICE PLATFORM LEVEL, LOCATED ABOVE H630 & H730 DUCTWORK
19. SERVICE PLATFORM FOR H605 & H605A MAINTENANCE AND SERVICE; PLATFORM C/W HANDRAIL AND ACCESS LADDER; SEE STRUCTURAL DWG. HS2.3 FOR DETAILS
20. FIRE DAMPER, TYP. TO REMAIN IN SERVICE AT EXISTING LOCATIONS
21. NEW EQUIPMENT, MATERIALS AND TOOLS ACCESS THRU TUNNEL.
22. 1 TON MONORAIL BEAM, SPAN TO ALLOW FAN & FAN MOTOR REMOVAL; MONORAIL C/W END STOPS AND CHAIN HOIST TROLLEY
23. RELOCATED 20ø CONDENSATE DRAINS TO SUIT PLATFORM SUPPORTS, LOCATION TO BE FIELD DETERMINED
24. 1100 X 1100 MOTORIZED CONTROL DAMPER ON NEW H630-EF DISCHARGE, H630-MD1, FAN INTERLOCKED; PROVIDE FLANGES ON TRANSITION AND PLENUM FOR DAMPER INSTALLATION
25. 1100 X 1100 MOTORIZED CONTROL DAMPER ON NEW H730-EF DISCHARGE, H730-MD1, FAN INTERLOCKED; PROVIDE FLANGES ON TRANSITION AND PLENUM FOR DAMPER INSTALLATION
26. 600x600 (APPROX.) BACKDRAFT DAMPER ON H605-EF DISCHARGE; PROVIDE FLANGES ON TRANSITION AND PLENUM FOR DAMPER INSTALLATION
27. 600 X 600 (APPROX.) BACKDRAFT DAMPER ON H605A-EF DISCHARGE; PROVIDE FALNGES ON TRANSITION AND PLENUM FOR DAMPER INSTALLATION
28. NEW FRAMED PLENUM ACCESS DOOR, FOR DAMPER SERVICE & INSPECTION, DOOR SIZE, 600Wx1200H; LOCATION TO SUIT, FREE OF OBSTRUCTIONS; SITE CHECK BEFORE DOOR FABRICATION.
29. EXTEND GRILLE MOUNTING BOOTS AND INSTALL BALLANCING DAMPER, TYP. ALL S/A & E/A GRILLES AT THIS LEVEL, UNLESS BALANCING DAMPER SHOWN; ALL GRILLES NEW WHERE DUCT BOOT MODIFICATION REQUIRED.

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.

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

B.M. ELEV. | FIELD BOOK #:

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DATE	2010-06-23	DATE	

ENGINEER'S SEAL
PROVINCE OF MANITOBA — A.F.G. GOSSEN — REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.
HM2.8

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

2010HVAC REPLACEMENT AND ASSOCIATED WORKS
WEWPCC
AREA H – HEADWORKS
LOWER PROCESS LEVEL – NEW CONDITIONS PLAN

SHEET 1 OF 1
CITY DRAWING NUMBER
1-0103G-M0024-001