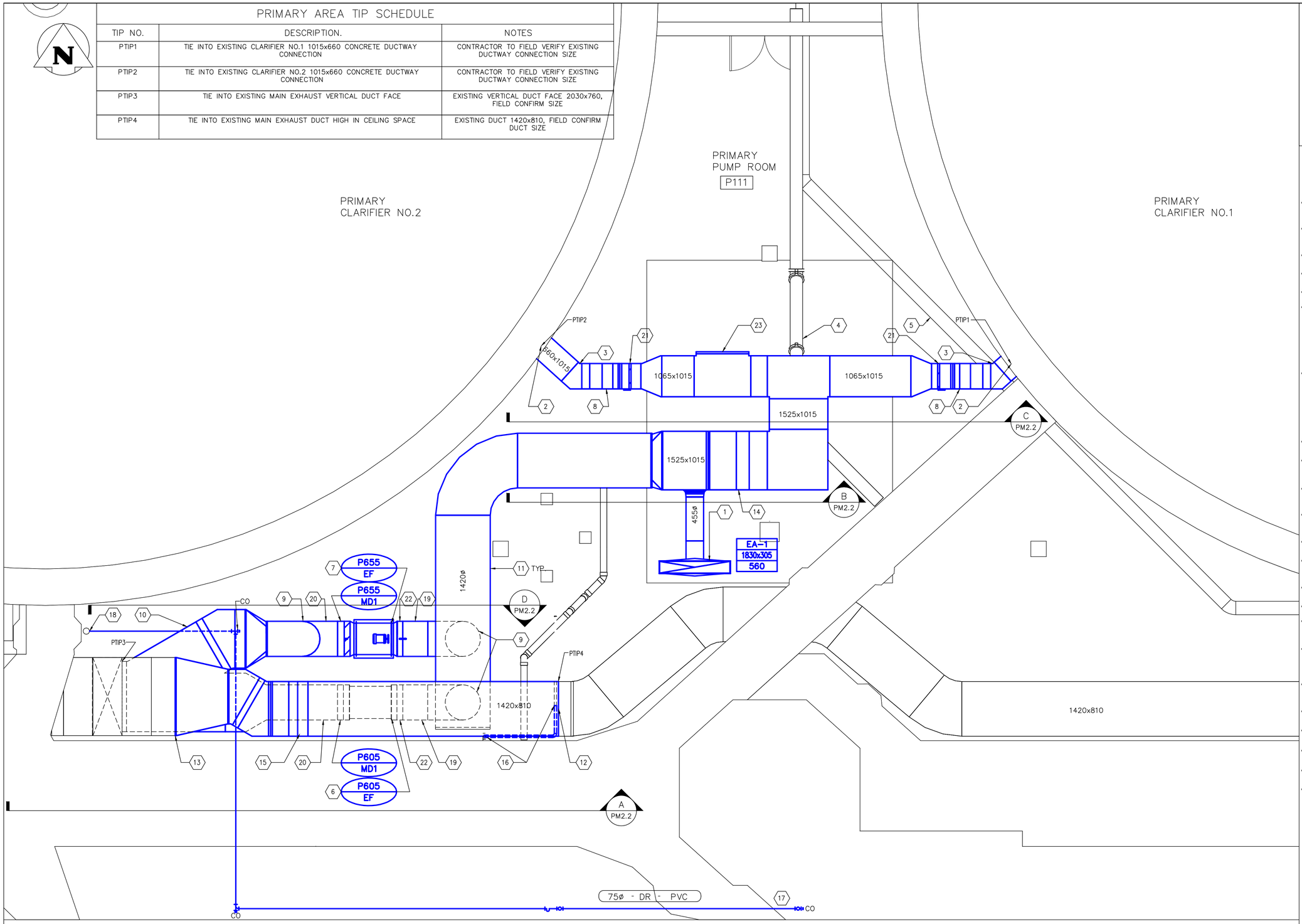
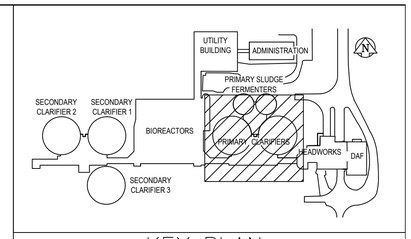
PRIMARY AREA TIP SCHEDULE

TIP NO.	DESCRIPTION.	NOTES
PTIP1	TIE INTO EXISTING CLARIFIER NO.1 1015x660 CONCRETE DUCTWAY CONNECTION	CONTRACTOR TO FIELD VERIFY EXISTING DUCTWAY CONNECTION SIZE
PTIP2	TIE INTO EXISTING CLARIFIER NO.2 1015x660 CONCRETE DUCTWAY CONNECTION	CONTRACTOR TO FIELD VERIFY EXISTING DUCTWAY CONNECTION SIZE
PTIP3	TIE INTO EXISTING MAIN EXHAUST VERTICAL DUCT FACE	EXISTING VERTICAL DUCT FACE 2030x760, FIELD CONFIRM SIZE
PTIP4	TIE INTO EXISTING MAIN EXHAUST DUCT HIGH IN CEILING SPACE	EXISTING DUCT 1420x810, FIELD CONFIRM DUCT SIZE





KEY PLAN

KEY NOTES

1. DISTRIBUTION ROOM EXHAUST DUCTWORK TO RUN WITHIN PUMP ROOM TO EXHAUST FLOOR GRILLE, PROVIDE FLOOR OPENING & TRANSITION TO SUIT NEW FLOOR GRILLE. SEE STR. DRAWINGS FOR CURBED FLOOR PENETRATION DETAIL.
2. PROVIDE NEW EXHAUST DUCTWORK CONNECTION TO EXISTING PRIMARY CLARIFIER CONCRETE DUCTWAY, MATCH EXISTING CONNECTION DUCT SIZE, FIELD CONFIRM SIZE.
3. PROVIDE NEW CUSTOM ANGLE ELBOW TO ALLOW STRAIGHT CONNECTION TO EXISTING CLARIFIER CONCRETE DUCTWAY.
4. AVOID INTERFERENCE WITH EXISTING FERMENTER SUPERNATANT PIPE, FIELD CHECK EXISTING HEIGHT OF PIPE TO ENSURE NO INTERFERENCE WITH NEW DUCTWORK.
5. EXISTING FOUL AIR DUCTWORK TO REMAIN.
6. PROVIDE NEW EXHAUST FAN, P605, 2-915ø x 815ø TRANSITIONS AND IT'S ASSOCIATED ISOLATION DAMPER UPSTREAM & 900ø MOTORIZED DAMPER DOWNSTREAM OF THE FAN, SUPPORT FAN OFF NEW CONCRETE HOUSEKEEPING PAD, SEE V019 ON DWG LM2.4 FOR CONC. HKP DETAIL. PROVIDE 810ø FLEX DUCT ON DISCHARGE AND SUCTION BEFORE TRANSITION FITTINGS. EXHAUST FAN C/W SUPPORT LEGS & VIBRATION ISOLATORS, PROVIDE FLEXIBLE CONNECTION AT BOTH FAN SUCTION AND DISCHARGE. SEE SPECIFICATIONS AND MANUFACTURER'S INSTALLATION REQUIREMENTS FOR DETAILS.
7. PROVIDE NEW EXHAUST FAN, P655, 2-915ø x 815ø TRANSITIONS AND IT'S ASSOCIATED ISOLATION DAMPER UPSTREAM & 900ø MOTORIZED DAMPER DOWNSTREAM OF THE FAN, SUPPORT FAN OFF NEW CONCRETE HOUSEKEEPING PAD, SEE STR. DRAWING LS2.2 DET. 1 FOR CONC. HKP DETAIL. PROVIDE 810ø FLEX DUCT ON DISCHARGE AND SUCTION BEFORE TRANSITION FITTINGS. EXHAUST FAN C/W SUPPORT LEGS & VIBRATION ISOLATORS, PROVIDE FLEXIBLE CONNECTION AT BOTH FAN SUCTION AND DISCHARGE. SEE SPECIFICATIONS AND MANUFACTURER'S INSTALLATION REQUIREMENTS FOR DETAILS.
8. PROVIDE VERTICAL OFFSET TO AVOID INTERFERENCE WITH STRUCTURAL BEAMS AT ROOF LEVEL, SEE PM2.2 FOR DUCT ELEVATIONS.
9. PROVIDE VERTICAL DROP/RISE TO ACCOMMODATE CONNECTING NEW DUCTWORK TO NEW EXHAUST FANS LOCATED AT FLOOR LEVEL, SEE PM2.2 FOR ELEVATIONS. PROVIDE BASE ELBOW SUPPORT AS SHOWN IN DETAIL V014 ON DWG LM2.3.
10. PROVIDE NEW WYE FITTING & TAKE-OFF TO ACCOMMODATE TIE-IN BETWEEN NEW EXHAUST FAN DISCHARGE DUCT & EXISTING GENERAL EXHAUST VERTICAL DUCT FACE.
11. NEW EXHAUST AIR DUCTWORK, SIZE AS SHOWN, SUPPORT DUCTWORK AS SPECIFIED, AVOID OR RELOCATE EXISTING PIPE HANGERS IN AREA TO ACCOMMODATE NEW DUCTWORK.
12. NEW GENERAL EXHAUST TIE-IN TO EXISTING GENERAL EXHAUST AT LOCATION SHOWN AT HIGH ELEVATION.
13. PROVIDE TRANSITION TO ACCOMMODATE TIE-IN BETWEEN NEW GENERAL EXHAUST WYE FITTING AND EXISTING GENERAL EXHAUST ELBOW AT HIGH ELEVATION, SUPPORT AS SPECIFIED.
14. PROVIDE VERTICAL OFFSET TO AVOID INTERFERENCE WITH GENERAL EXHAUST DUCTWORK, SEE PM2.2 FOR DUCT ELEVATIONS.
15. PROVIDE VERTICAL OFFSET TO MATCH TIE-IN ELEVATIONS, SEE PM2.2 FOR DETAILS.
16. EXISTING 50ø PVC SUMP PUMP DISCHARGE RE-ROUTED AS SHOWN, TURN LOWER 90° ELBOW 90° AND RUN PIPE AS SHOWN TO TIE-IN TO EXISTING PIPE. CONTRACTOR TO FIELD VERIFY SIZE AND MATERIAL OF PIPE.
17. NEW 75ø PVC SANITARY DRAIN PIPING FROM DISTRIBUTION ROOM FLOOR DRAINS PROVIDE TRAP DOWNSTREAM OF THE SECOND FLOOR DRAIN SANITARY TEE TIE-IN. RUN PIPING TO LOCATION SHOWN BELOW THE CHANNEL FLOOR, SLOPE NEW PIPING AT MINIMUM 1:50 SLOPE.
18. PROVIDE 45° ELBOW, TRANSITION AND SANITARY WYE FITTING TO TIE-IN NEW 75ø SANITARY DRAIN TO EXISTING VERTICAL DRAIN PIPING AT LOCATION SHOWN. FIELD CONFIRM EXISTING VERTICAL DRAIN PIPING SIZE.
19. PROVIDE ACCESS DOOR IN DUCTWORK CLOSE TO DAMPER, SEE V008 ON DWG LM2.2 FOR ACEESS DOOR DETAIL.
20. PROVIDE ACCESS DOOR ON ELBOW CLOSE TO MOTORIZED DAMPER, SEE V008 ON DWG LM2.2 FOR ACCESS DOOR DETAIL.
21. PROVIDE BALANCING DAMPER ON EACH EXHAUST FAN INLET DUCTWORK AS SHOWN, SEE SPECIFICATIONS FOR DETAILS.
22. PROVIDE MANUAL ISOLATION DAMPER ON EACH EXHAUST FAN INLET DUCTWORK AS SHOWN, SEE SPECIFICATIONS FOR DETAILS.
23. PROVIDE 1370x1015 TEE C/W END CAP TO ACCOMMODATE TEMPORARY EXHAUST OF PRIMARY CLARIFIERS DIRECTLY OUTSIDE DURING ODS FAN REPLACEMENT WORK. SEE DWG PM 2.7 FOR DETAILS.

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.

A / – AREA P – PUMP ROOM – PLAN
SCALE 1:50

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

B.M. ELEV. | FIELD BOOK #:

POSTED TO LBIS

NO.	REVISIONS	DATE	BY
00	ISSUED FOR TENDER	2010-12-21	AFG

ALLIANCE Engineering Services Inc.

DESIGNED BY	IU	CHECKED BY	AG
DRAWN BY	IU	APPROVED BY	
HOR. SCALE	1:50	RELEASED FOR CONSTRUCTION	
VERTICAL	1:50		
DATE	2010-02-23	DATE	

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

CONSULTANT DRAWING NO.
PM2.1

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

2010 HVAC REPLACEMENT AND ASSOCIATED WORKS
WEWPCC
AREA P – PRIMARY CLARIFIERS 1 & 2
NEW PUMP ROOM PLAN

SHEET 1 OF 1
CITY DRAWING NUMBER
1-0103P-M0006-001