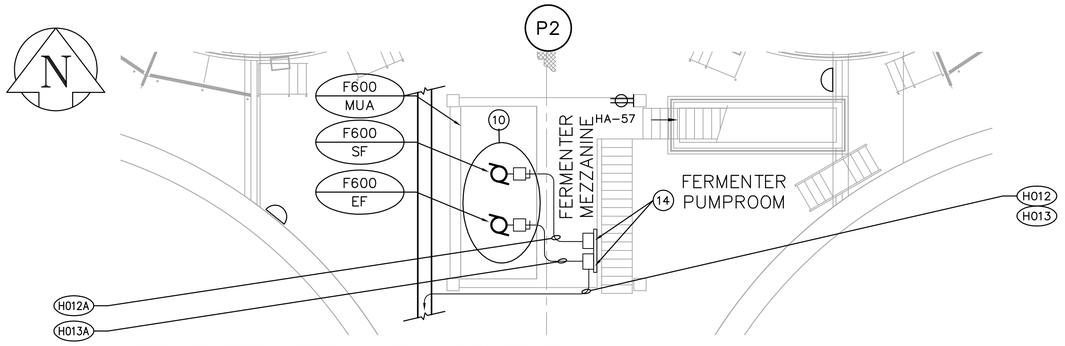
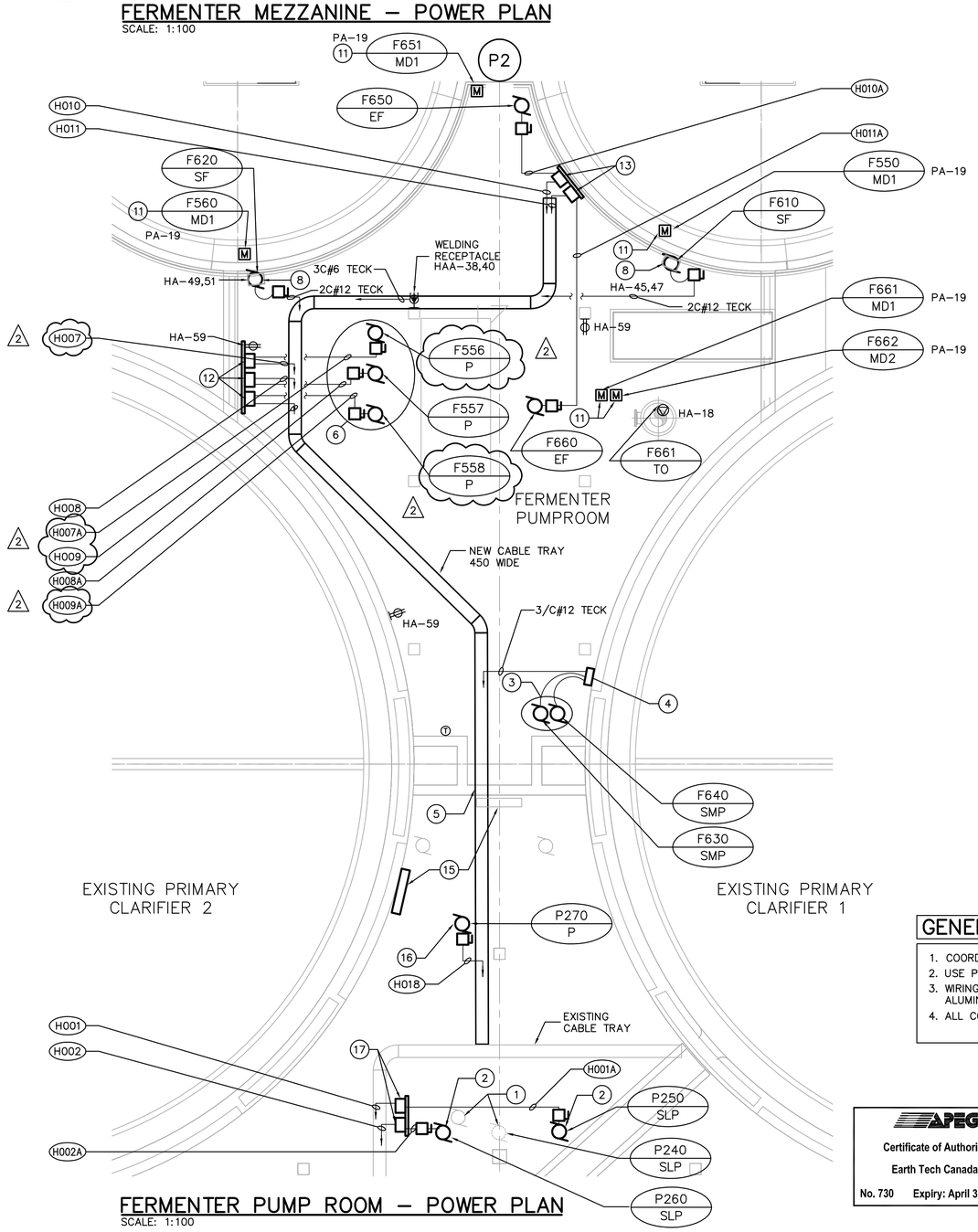
SHEET: COW-A1 (03/2005)



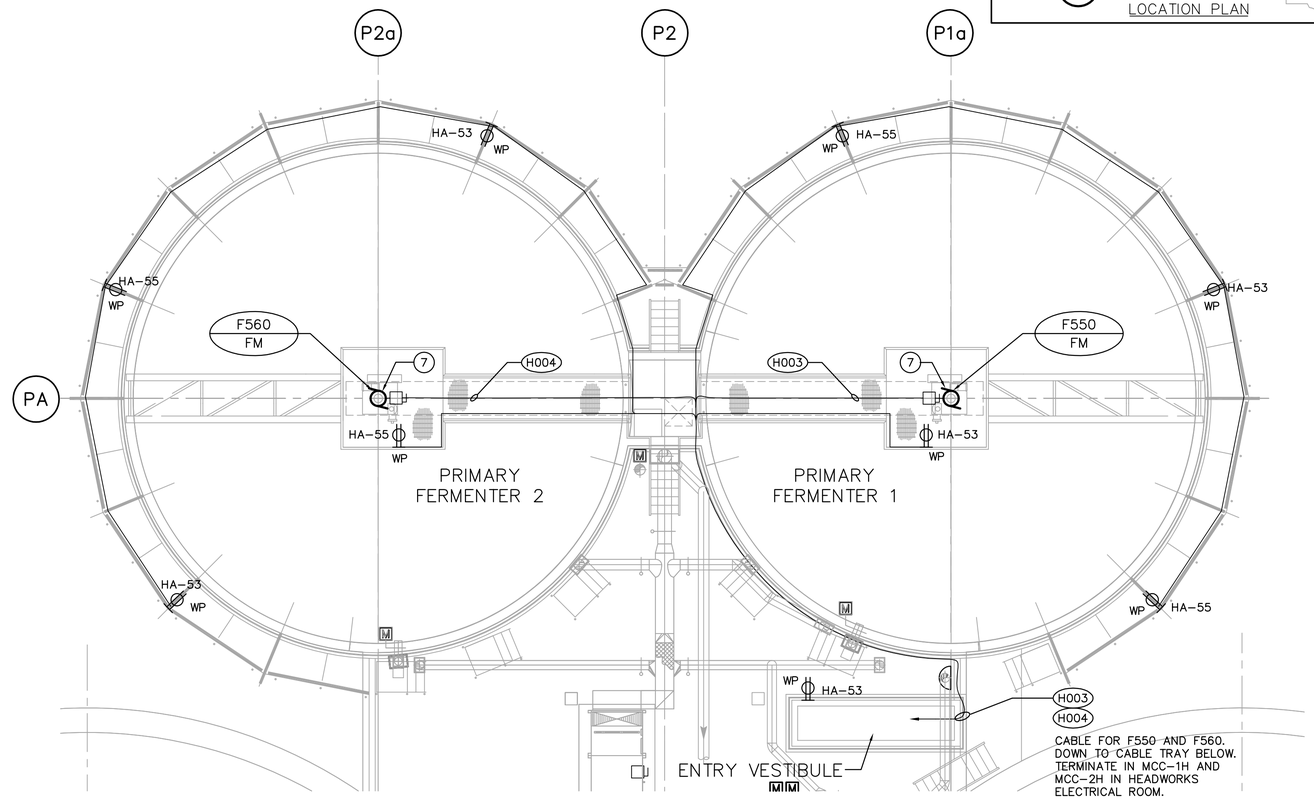
FERMENTER MEZZANINE – POWER PLAN

SCALE: 1:100



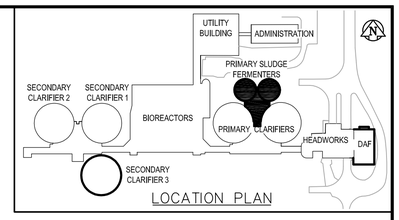
FERMENTER PUMP ROOM – POWER PLAN

SCALE: 1:100



FERMENTER ROOF – POWER PLAN

SCALE: 1:100



LOCATION PLAN

DRAWING NOTES

1. DISCONNECT EXISTING DEWATERING PUMP P240 AND MAKE READY FOR REMOVAL. RE-CONNECT PUMP AND CONTROLS ONCE PUMP HAS BEEN RELOCATED. REFER TO DEMOLITION DRAWING PP0-01.
2. WIRE AND CONNECT NEW PRIMARY SLUDGE PUMPS P250 AND P260 AND ASSOCIATED CONTROLS AND VFD'S TO MCC'S IN HEADWORKS ELECTRICAL ROOM.
3. WIRE AND CONNECT NEW SUMP PUMPS F630 AND F640 AND ASSOCIATED CONTROLS TO MCC'S IN HEADWORKS ELECTRICAL ROOM.
4. SUMP PUMP F630 AND F640 CONTROL CABINET c/w ALTERNATOR, STARTERS & CONTROLS SUPPLIED BY DIV. 15.
5. COORDINATE ELECTRICAL CABLETRAY INSTALLATION WITH MECHANICAL PIPING AND DUCTWORK TO AVOID CONFLICTS.
6. WIRE AND CONNECT NEW FERMENTER SUPERNATANT PUMPS F556, F557 AND F558 AND ASSOCIATED CONTROLS AND VFD'S TO MCC'S IN HEADWORKS ELECTRICAL ROOM. REFER TO MCC SCHEDULE FOR CABLE SIZES.
7. WIRE AND CONNECT NEW CLARIFIER MECHANISM MOTORS F550 AND F560 AND ASSOCIATED CONTROLS TO MCC'S IN HEADWORKS ELECTRICAL ROOM. REFER TO MCC SCHEDULE FOR CABLE SIZES.
8. WIRE AND CONNECT EXHAUST FAN MOTORS F610 AND F620 AND ASSOCIATED CONTROLS TO EXISTING PANEL HA IN HEADWORKS ELECTRICAL ROOM.
9. WIRE AND CONNECT FERMENTER ODOUR CONTROL FAN MOTORS F650 AND F660 AND ASSOCIATED CONTROLS TO MCC'S IN HEADWORKS ELECTRICAL ROOM.
10. WIRE AND CONNECT EXHAUST FAN AND SUPPLY FAN MOTORS F600 AND ASSOCIATED CONTROLS AND VFD'S.
11. MOTORIZED DAMPERS SUPPLIED AND INSTALLED BY DIVISION 15, CONNECTED BY DIVISION 16. REFER TO MECHANICAL DRAWINGS FOR DAMPER LOCATIONS.
12. VFD'S INSTALLED IN CSA4 CABINETS AND MOUNTED ON STAINLESS STEEL BACKBOARD FOR FERMENTER SUPERNANT PUMPS F556-P, F557-P AND F558-P. VFD'S SUPPLIED BY DIV. 11.
13. VFD'S INSTALLED IN CSA4 CABINET AND MOUNTED ON STAINLESS STEEL BACKBOARD FOR FERMENTER ODOUR CONTROL FANS F650-EF AND F660-EF. VFD'S SUPPLIED BY DIV. 15.
14. VFD'S INSTALLED IN CSA4 CABINET AND MOUNTED ON STAINLESS STEEL BACKBOARD FOR MAKE UP AIR UNIT FANS F600-EF AND F600-SF. VFD'S SUPPLIED BY DIV. 15.
15. RELOCATE CONTROLS AND BACKBOARD FOR PUMPS. REROUTE EXISTING WIRE AND CONDUIT. ADJUST CABLES TO SUIT NEW LOCATION.
16. WIRE AND CONNECT SUMP PUMP P270-P AND ASSOCIATED CONTROLS TO MCC-1H IN HEADWORKS ELECTRICAL ROOM
17. VFD'S INSTALLED IN CSA4 CABINETS AND MOUNTED ON STAINLESS STEEL BACKBOARD FOR PRIMARY SLUDGE PUMPS P250-SLP AND P260-SLP. SUPPLIED BY DIV. 11.
18. REFER TO MOTOR CONTROL SCHEDULE FOR INFORMATION ON POWER CABLES, STARTERS AND REQUIRED CONTROLS.

GENERAL NOTES

1. COORDINATE WITH OTHER TRADES TO PREVENT CONFLICTS.
2. USE PVC JACKETED HITECK CABLE FOR ALL POWER WIRING.
3. WIRING FOR LIGHTING, RECEPTACLES AND COMMUNICATIONS TO IN RGID ALUMINUM CONDUIT.
4. ALL CONDUIT TO BE 21mmø MINIMUM UNLESS OTHERWISE NOTED.

APEGM
Certificate of Authorization
Earth Tech Canada Inc.
No. 730 Expiry: April 30, 2006

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
02	21-2006 ADDENDUM 6	06/07/05	SRP
01	21-2006 ADDENDUM 3	06/05/19	ERC
00	ISSUED FOR TENDER	06/04/26	ERC

EarthTech
A Tyco International Ltd. Company

DESIGNED BY	GSN	CHECKED BY	PS
DRAWN BY	ERC	APPROVED BY	JEH
HOR. SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION BY:	J. VEILLEUX
VERTICAL SCALE:			
DATE	2005/11/22	DATE	2006/04/26

ENGINEER'S SEAL
ORIGINAL SIGNED BY
P. STRYK
2006/04/26

CONSULTANT DRAWING NO.
FE1.02

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WEWPCC
BIOLOGICAL NUTRIENT REMOVAL UPGRADE
CONTRACT 3

CITY FILE NUMBER
SHEET OF

ELECTRICAL
AREA F – PRIMARY SLUDGE FERMENTERS
POWER PLANS

CITY DRAWING NUMBER

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