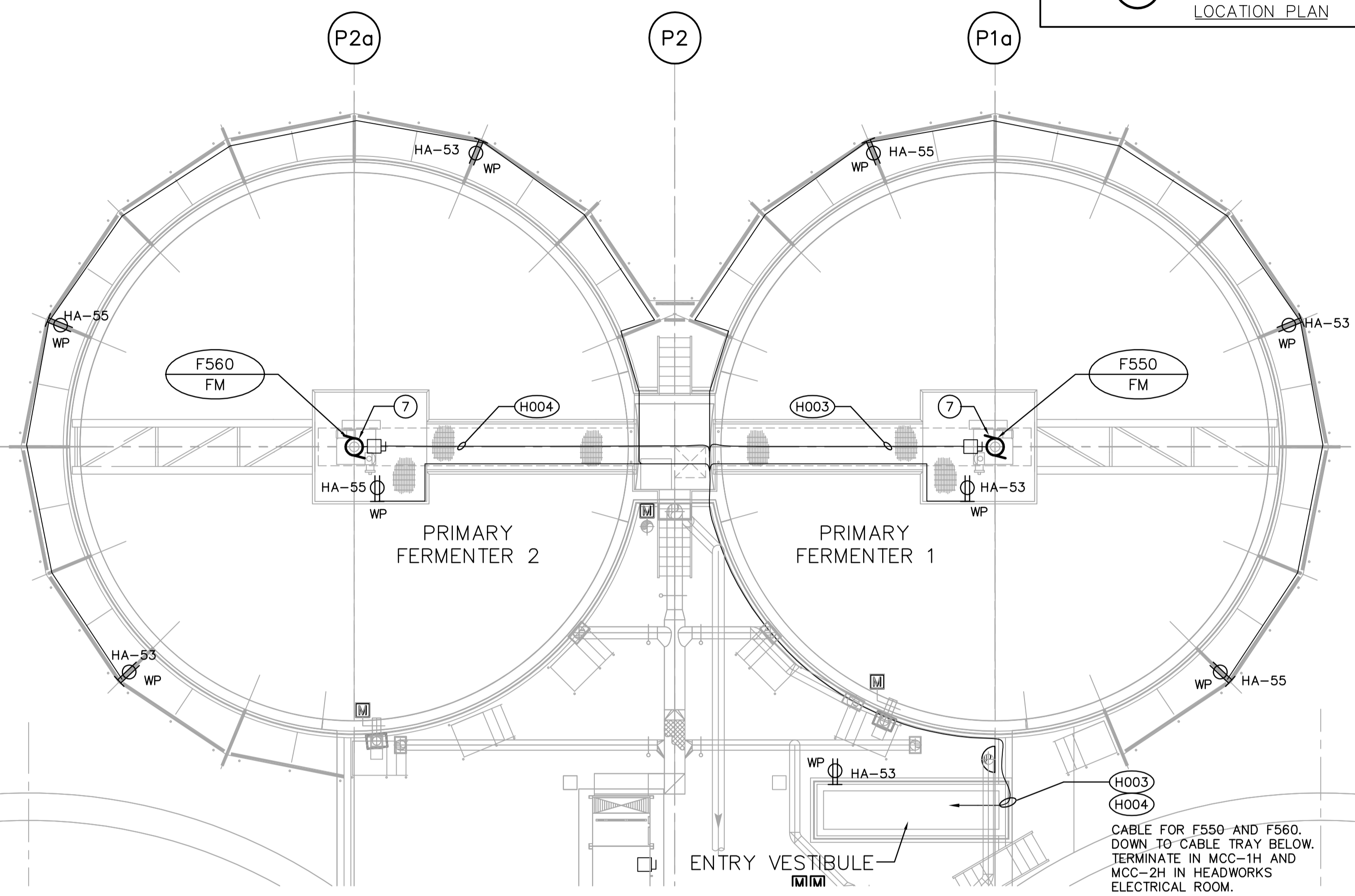


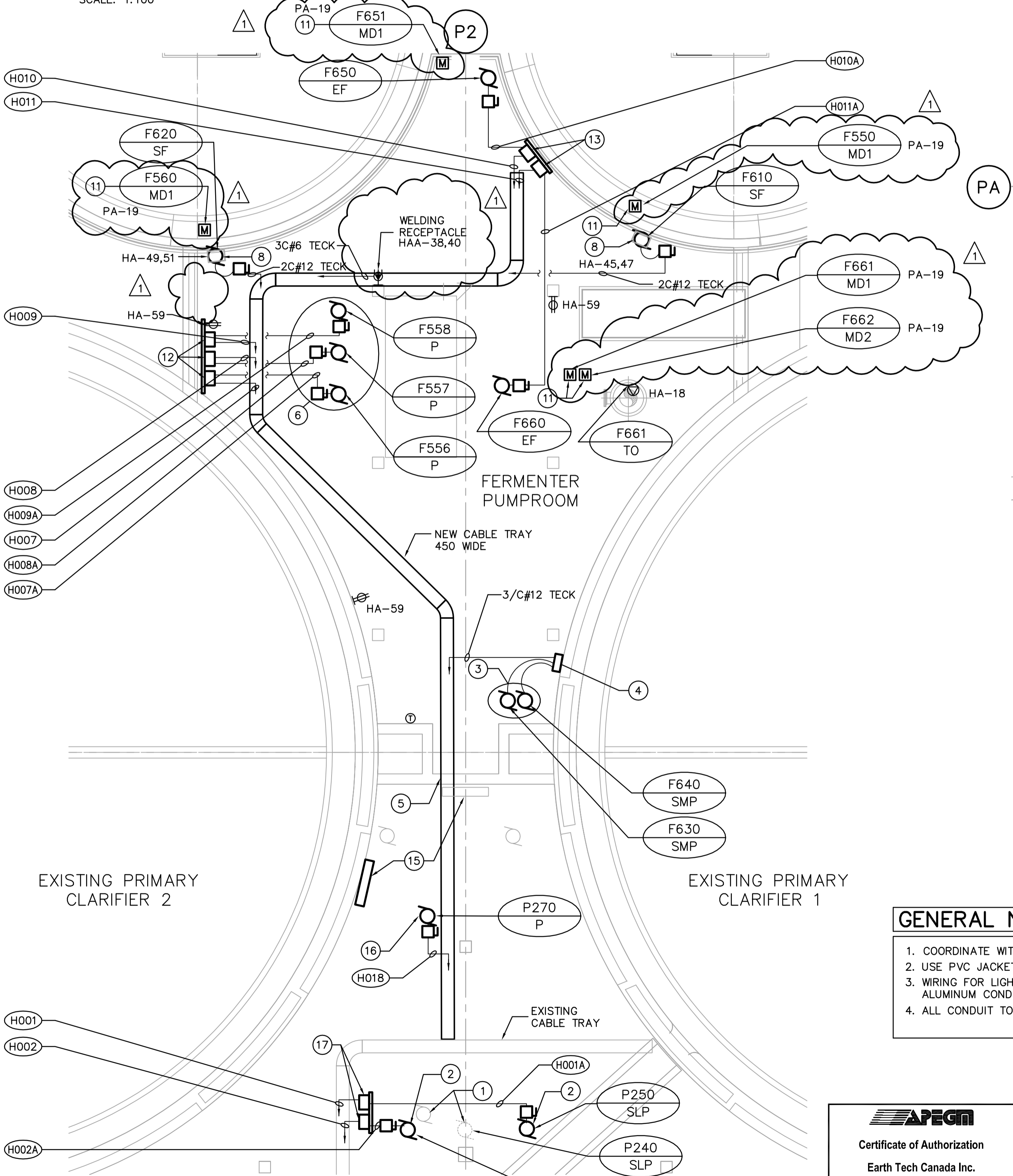
FERMENTER MEZZANINE - POWER PLAN

SCALE: 1:100



FERMENTER ROOF - POWER PLAN

SCALE: 1:100



FERMENTER PUMP ROOM - POWER PLAN

SCALE: 1:100

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 PPO-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 SUPERNATANT 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 HI-TECK CABLE FOR ALL POWER WIRING.
3. WIRING FOR LIGHTING, RECEPTACLES AND COMMUNICATIONS TO IN RIGID ALUMINUM CONDUIT.
4. ALL CONDUIT TO BE 21mmØ MINIMUM UNLESS OTHERWISE NOTED.



<p>EarthTech A Tyco International Ltd. Company</p>		<p>ENGINEER'S SEAL</p> <p>ORIGINAL SIGNED BY P. STRYK</p> <p>DATE 2006/04/26</p>		<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION</p>	
DESIGNED BY GSN	CHECKED BY PS	<p>CONSULTANT DRAWING NO. FE1.02</p>		<p>WEWPC BIOLOGICAL NUTRIENT REMOVAL UPGRADE CONTRACT 3</p>	
DRAWN BY ERC	APPROVED BY JEH	<p>RELEASED FOR CONSTRUCTION BY: J. VEILLEUX</p>		<p>CITY FILE NUMBER</p>	
<p>HOR. SCALE: AS NOTED</p> <p>VERTICAL SCALE:</p>		<p>DATE 2005/11/22</p>		<p>SHEET OF</p>	
<p>NO. REVISIONS</p>		<p>DATE BY</p>		<p>CITY DRAWING NUMBER</p>	