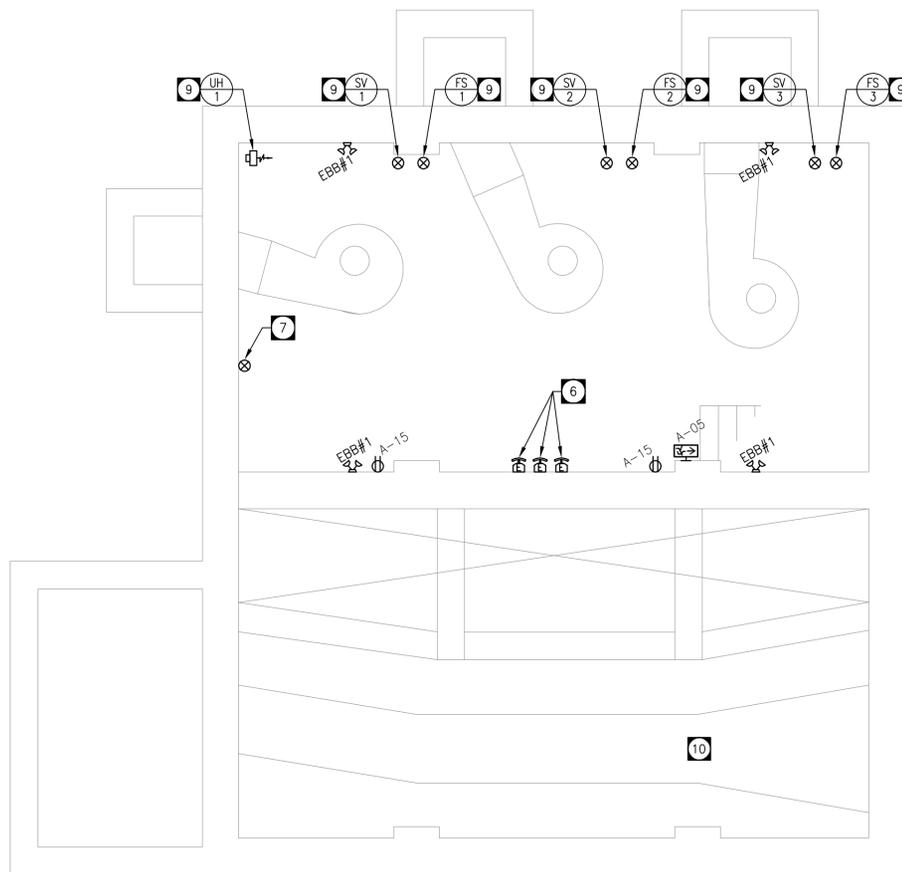


GENERAL NOTE

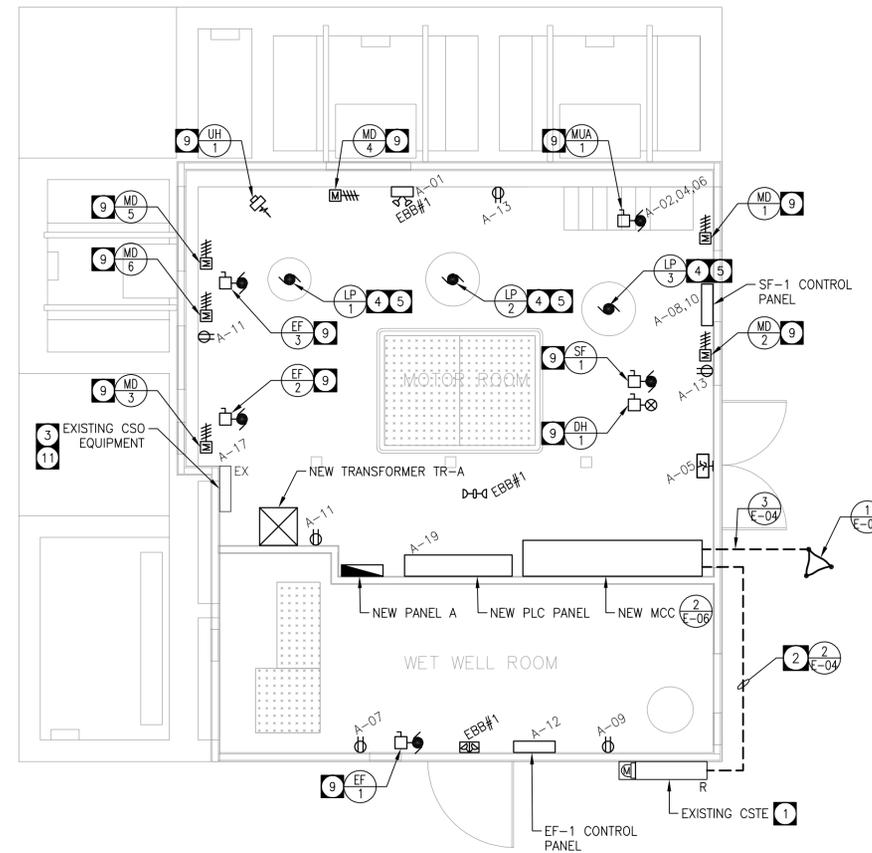
- A. GATE CHAMBER, WET WELL AND WET WELL ROOM IS CLASSIFIED AS ZONE 1 - HAZARDOUS LOCATION AND A CATEGORY 2 WET LOCATION. ALL EQUIPMENT AND INSTALLATION METHODS IN THESE AREAS SHALL COMPLY WITH CEC SECTIONS 18 AND 22.
- B. DRY WELL IS CLASSIFIED AS A CATEGORY 1 WET LOCATION. ALL EQUIPMENT AND INSTALLATION METHODS IN THE DRY WELL SHALL COMPLY WITH CEC SECTION 22.
- C. PUMP ROOM IS CLASSIFIED AS AN ORDINARY LOCATION.
- D. ENSURE ALL ELECTRICAL PENETRATIONS ARE SEALED TO PREVENT PASSAGE OF HAZARDOUS AND CORROSIVE LIQUIDS AND VAPOURS.

DRAWING NOTES:

- 1 NEW LOCATION FOR EXISTING CSTE.
- 2 PROVIDE NEW UNDERGROUND SERVICE CONDUCTORS FROM CSTE TO MCC MAIN BREAKER, REFER TO SINGLE LINE DIAGRAM FOR DETAILS.
- 3 EXISTING CSO EQUIPMENT TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION AND SHALL BE CONNECTED TO NEW PLC PANEL.
- 4 EXISTING LIFT PUMPS TO BE CONNECTED TO NEW SOFT STARTERS IN MCC AS SHOWN.
- 5 REPLACE EXISTING LIFT PUMP JUNCTION BOXES WITH NEW 12"x14"x10" HINGED JUNCTION BOXES.
- 6 LIFT PUMP EMERGENCY STOP PUSHBUTTON CONNECTED TO LIFT PUMP SOFT STARTER CONTROL CIRCUIT, REFER TO WIRING DIAGRAM FOR DETAILS.
- 7 REPLACE EXISTING DRY WELL FLOOD SWITCH WITH NEW FLOAT SWITCH, COORDINATE EXACT LOCATION WITH CONTRACT ADMINISTRATOR ON SITE.
- 8 ALL CONDUCTORS IN THE PUMP ROOM AND DRY WELL TO BE DE-RATED IN ACCORDANCE WITH CEC TABLE 5A. MAXIMUM AMBIENT TEMPERATURE WITHIN THESE ROOMS WILL BE 35°C.
- 9 COORDINATE EXACT LOCATION WITH MECHANICAL.
- 10 REPLACE EXISTING LEVEL TRANSMITTER WITH NEW IN SAME LOCATION. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED TO CONNECT TO NEW PLC PANEL AS SHOWN.
- 11 PROVIDE NEW WIRING AND CONDUIT AS REQUIRED TO CONNECT THE FOLLOWING SIGNALS FROM EXISTING CSO TERMINATION PANEL TO NEW PLC PANEL:
 - 4-20mA FOR VELOCITY (INFLOW FLOW METER - MON-S-751-VT)
 - 4-20mA FOR FLOW (INFLOW FLOW METER - MON-S-751-FT)
 - 4-20mA FOR EXTERNAL LEVEL (INFLOW LEVEL METER - MON-S-752-LT)
 - DISCRETE CONTACT FOR FAULT (INFLOW FLOW METER - MON-S-751-QF)
 - 4-20mA FOR INFLOW LEVEL (INFLOW LEVEL METER - MON-S-651-LT)
 - 4-20mA FOR OUTFALL LEVEL (OUTFALL LEVEL METER - MON-S-861-LT)
 - 4-20mA FOR FLAP GATE INCLINOMETER (MON-S-851-ZT2)
 - 4-20mA FOR FLAP GATE INCLINOMETER (MON-S-851-ZT1)
 - 4-20mA FOR FLAP GATE INCLINOMETER (MON-S-852-ZT1)



DRY WELL FLOOR PLAN
SCALE: 1:50



MAIN FLOOR PLAN
SCALE: 1:50



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

TOWER ENGINEERING GROUP
TOWER PROJECT NO.: 181654
UNIT 1-1140 WINTERLEY ST. WINNIPEG, MB R3T 0P4
TEL: (204) 925-1150 FAX: (204) 925-1155
EMAIL: towereng@towereng.ca WEB: www.towereng.ca
WINNIPEG CALGARY

WARNING
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

LOCATION APPROVED UNDERGROUND STRUCTURES
SUPV. U/G STRUCTURES COMMITTEE DATE
NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	REVISIONS	DATE	BY
3	ISSUED FOR TENDER	2019 05 27	DKG
2	ISSUED FOR 99% REVIEW	2019 05 09	DKG
1	ISSUED FOR 66% REVIEW	2019 04 17	DKG

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DESIGNED BY	DKG	CHECKED BY	DKG
DRAWN BY	VRR	APPROVED BY	DKG
SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION	
DATE	2019 04 15	DATE	

ENGINEER'S SEAL
CONSULTANT DRAWING NUMBER
E-03

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

MISSION FPS UPGRADES

POWER & SYSTEM LAYOUT

SHEET OF
CITY DRAWING NUMBER
1-0163F-E0004-001