TERMINATION PANEL DETAIL
SCALE: NOT TO SCALE

BILL OF MATERIALS

ITEMS	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	TYPE 12 ENCLOSURE C/W PANEL #CP2420	HOFFMAN	CSD20248
2	AS REQ'D	TB1 TERMINAL BLOCKS STRIP	SEE DETAIL	SEE DETAIL
3	AS REQ'D	TB2 TERMINAL BLOCKS STRIP	SEE DETAIL	SEE DETAIL
4	AS REQ'D	WIRE DUCT C/W COVER #C1LG6	PANDUIT	E1X2LG6
5	AS REQ'D	DIGITAL INDICATOR	SIEMENS	7ML5741

CSO INSTRUMENT LIST

NO.	INSTRUMENT TAG	DESCRIPTION	MANUFACTURER	MODEL	PLC I/O TYPE	POWER SUPPLY	LOCATION
1	REN-S-951-LIT	RADAR LEVEL TRANSMITTER	SIEMENS	SITRAN LR200	1X AI	24VDC – LOOP POWERED	DOWNSTREAM OF FLAP GATE
2	REN-S-851-ZT	INCLINATION TRANSMITTER	RST INSTRUMENTS	ICEX360A	1X AI	24VDC – LOOP POWERED	FLAP GATE

NOTES:
1. TERMINAL BLOCKS WEIDMULLER #WDU4
2. FUSED TERMINAL BLOCKS WEIDMULLER #WSI6:
   TERMINAL BLOCKS C/W 1A FUSES
3. JUMPERS: 1–6; 7–12

NOTES:
1. FUSED TERMINAL BLOCKS WEIDMULLER #WSI6, C/W 500mA FUSE
2. FEED-THROUGH TERMINAL BLOCKS WEIDMULLER #WDU4

ELEVATION VIEW

PLAN VIEW

NOTES:
1. CABLE SHALL BE SECURED ON THE FLAP GATE CHAMBER WALL AND FLAP GATE.
2. EXTRA CABLE SHALL BE PROVIDED TO RELIEVE CABLE STRESS AT THE JUNCTION OF THE FLAP GATE AND THE CHAMBER WALL.
3. INSTRUMENT AND JUNCTION BOX MOUNTING BRACKET NEED TO BE ADJUSTED ACCORDING TO FLAP GATE DESIGN.
4. EXPLOSION-PROOF CONNECTOR SHALL BE SEALED WITH EPOXY TO PREVENT GAS MIGRATION.

1 RST INSTRUMENTS INCLINOMETER INSTALLATION DETAIL
– SCALE: NOT TO SCALE

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10		
9		
8		
7		
6		
5		
4		
3	1-0240G-A0001-001	AUTOMATION PLAN
2	1-0240G-A0017-001	LOOP DIAGRAM - ZT-S851 AND LIT-S951
1	1-0240G-A0002-001	PANEL LAYOUT AND BILL OF MATERIALS - CP-G81

REFERENCE DRAWINGS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MPE, A DIVISION OF ENGLOBE CORP.
No. 4968

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR CONSTRUCTION	2024.03.15	

MPE a division of Englobe

DESIGNED BY J. SWAIN
CHECKED BY R. OFSTIE
DRAWN BY D. MCMILLAN
APPROVED BY R. OFSTIE
SCALE: NOT TO SCALE
HORIZONTAL
VERTICAL
RELEASED FOR CONSTRUCTION
DATE 2024-03-15
DATE
PLOT DATE: 2024 03 15

PROVINCE OF MANITOBA R.G. OFSTIE Member 44405 REGISTERED PROFESSIONAL ENGINEER
MARCH 18, 2024
CONSULTANT DRAWING NUMBER

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

RENFREW OUTFALL GATE CHAMBER
2024 UPGRADES
PANEL LAYOUT AND BILL OF MATERIALS
CSO INSTRUMENT PANEL

CITY DRAWING NUMBER 1-0240G-A0011-001
SHEET 35 OF 41

BID OPPORTUNITY: --
FILE PATH: M:\N-Data\84\00 City of Winnipeg\006 – Renfrew Outfall Gate Chamber Upgrades\AutoDesk\ACAD\
FILE NAME: a1.2 panel layout and bill of materials.dwg