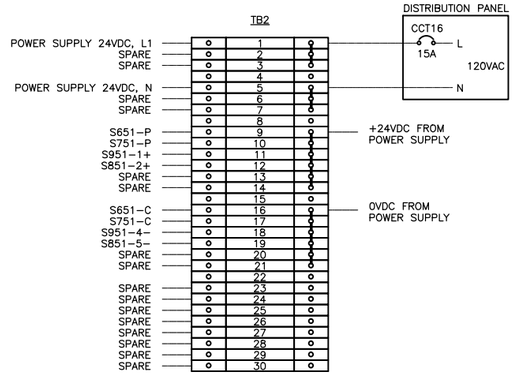
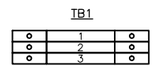


NOTES

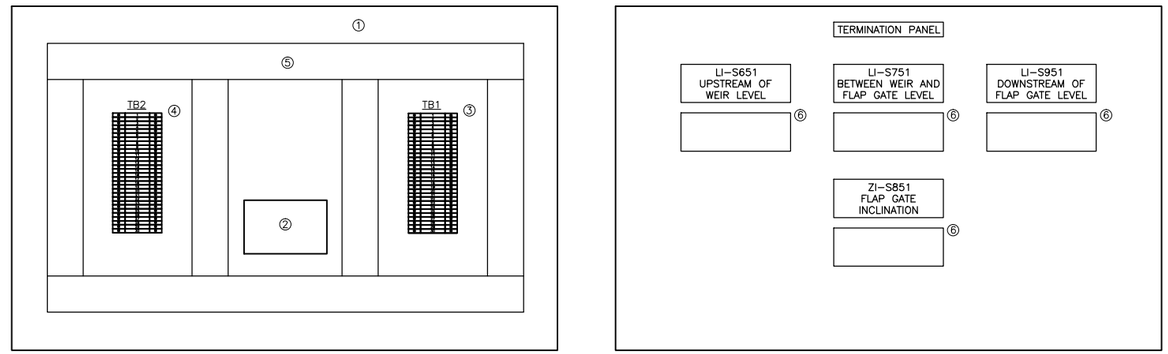
1) TERMINAL BLOCKS WEIDMULLER #WDU4
2) FUSED TERMINAL BLOCKS WEIDMULLER #WSI6:
   TERMINAL BLOCK 1, C/W FUSE 1A
   TERMINAL BLOCK 2, C/W FUSE 1A
   TERMINAL BLOCK 3, C/W FUSE 1A
   TERMINAL BLOCK 9, C/W FUSE 500mA
   TERMINAL BLOCK 10, C/W FUSE 500mA
   TERMINAL BLOCK 11, C/W FUSE 500mA
   TERMINAL BLOCK 12, C/W FUSE 500mA
   TERMINAL BLOCK 13, C/W FUSE 500mA
   TERMINAL BLOCK 14, C/W FUSE 500mA
3) JUMPERS: 1–3; 5–7; 9–14; 16–21

TB2 STRIP DETAIL

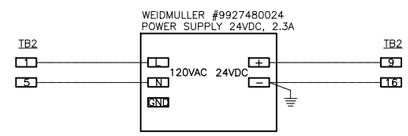


1) FUSED TERMINAL BLOCKS WEIDMULLER #WSI6, C/W 500mA FUSE
2) FEED–THROUGH TERMINAL BLOCKS WEIDMULLER #WDU4
3) FEED–THROUGH TERMINAL BLOCKS WEIDMULLER #WDU4
4) REPEAT FOR ALL AIs AND AOs.

TB1 STRIP DETAIL



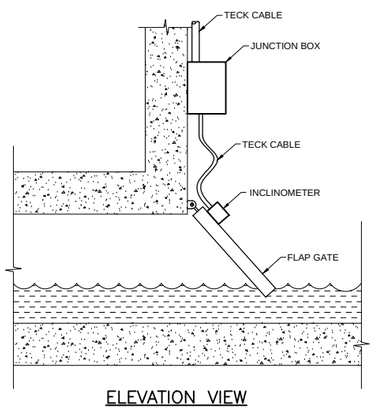
TERMINATION PANEL DETAIL



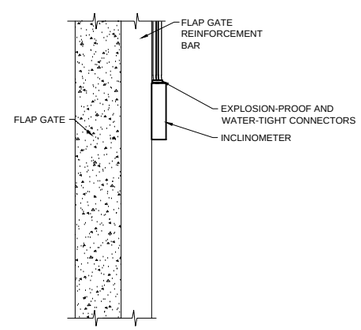
POWER SUPPLY 24VDC WIRING DETAIL

LEGEND

1) HOFFMAN #CSD20248 TYPE 12 ENCLOSURE C/W PANEL #CP2420
2) WEIDMULLER #9927480024 POWER SUPPLY 24VDC, 2.3A
3) TB1 TERMINAL BLOCKS STRIP. SEE DETAIL.
4) TB2 TERMINAL BLOCKS STRIP. SEE DETAIL.
5) PANDUIT #E1X2LG6 WIRE DUCT C/W COVER #C1LG6
6) SIEMENS #7ML5741 DIGITAL INDICATOR



ELEVATION VIEW



PLAN VIEW

GENERAL 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

RST INSTRUMENTS INCLINOMETER INSTALLATION DETAIL

No.	INSTRUMENT TAG	DESCRIPTION	MANUFACTURER	MODEL	PLC I/O TYPE	POWER SUPPLY	LOCATION
1	LT–S651	HYDROSTATIC LEVEL TRANSMITTER	ENDRESS+HAUSER	FMX21	1X AI	24VDC	UPSTREAM OF WEIR
2	LT–S751	HYDROSTATIC LEVEL TRANSMITTER	ENDRESS+HAUSER	FMX21	1X AI	24VDC	BETWEEN WEIR AND FLAP GATE
3	LIT–S951	RADAR LEVEL TRANSMITTER	SIEMENS	SITRAN LR200	1X AI	24VDC	DOWNSTREAM OF FLAP GATE
4	ZT–S851	INCLINATION TRANSMITTER	RST INSTRUMENTS	ICEX360A	1X AI	24VDC	FLAP GATE

INSTRUMENT LIST

No.	CABLE TAG	FROM	TO	DESCRIPTION	MANUFACTURER	CATALOG No.	NOTE
1	CA–S651–1	LT–S651	JBA–S651	#16 AWG, 2–PAIR, TWISTED, SHIELDED	TEXCAN	C3–9326–1602–19	4–20mA
2	CA–S651–2	JBA–S651	LY–S651	#16 AWG, 2–PAIR, TWISTED, SHIELDED	TEXCAN	C3–9326–1602–19	4–20mA
3	CA–S651–3	LY–S651	TERMINATION PANEL	#16 AWG, 2–PAIR, TWISTED, SHIELDED	TEXCAN	C3–9326–1602–19	4–20mA
4	CA–S751–1	LT–S751	JBA–S751	#16 AWG, 2–PAIR, TWISTED, SHIELDED	TEXCAN	C3–9326–1602–19	4–20mA
5	CA–S751–2	JBA–S751	LY–S751	#16 AWG, 2–PAIR, TWISTED, SHIELDED	TEXCAN	C3–9326–1602–19	4–20mA
6	CA–S751–3	LY–S751	TERMINATION PANEL	#16 AWG, 2–PAIR, TWISTED, SHIELDED	TEXCAN	C3–9326–1602–19	4–20mA
7	CA–S951–1	LIT–S951	TERMINATION PANEL	#16 AWG, 2–PAIR, TWISTED, SHIELDED	TEXCAN	C3–9326–1602–19	4–20mA
8	CA–S851–1	ZT–S851	JBA–S851	#16 AWG, 2–PAIR, TWISTED, SHIELDED	TEXCAN	C3–9326–1602–19	4–20mA
9	CA–S851–2	JBA–S851	TERMINATION PANEL	#16 AWG, 2–PAIR, TWISTED, SHIELDED	TEXCAN	C3–9326–1602–19	4–20mA
10	C–TP1	DISTRIBUTION PANEL	TERMINATION PANEL	#12 AWG, 2C, TECK 90	TEXCAN	05002–01–010	POWER 120VAC

CABLE LIST

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 140/92 FOR DETAILS

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

APEGM
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301

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.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
B	AS BUILT DRAWING	15.04.07	J.C.
A	ISSUED FOR CLIENT REVIEW	13.10.29	J.C.

Stantec
905 Waverley Street, Winnipeg, Manitoba
Tel 204-489-5900 Fax 204-453-9012

DESIGNED BY	S.T.	CHECKED BY	B.J.
DRAWN BY	S.T.	APPROVED BY	B.J.
HOR. SCALE: VERTICAL:	N.T.S.	RELEASED FOR CONSTRUCTION:	
DATE	2013.10.15	DATE	

ENGINEER'S SEAL

CONSULTANT DRAWING NO.
E-3202

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

CSO OUTFALL MONITORING
BANNATYNE AVENUE
TERMINATION PANEL LAYOUT
INSTRUMENT LIST, CABLE LIST

SHEET 1 OF 1
CAD FILE DRAWING NUMBER
14720e-3202-ban.dwg
CITY DRAWING NUMBER
1-0118-A-A0203-001-00

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