INSTRUMENT LOOP DIAGRAM

LOOP NO. TD-042-HS TD-042-HSO TD-042-ZIB TD-042-HSB TD-042-ZSB TD-042-ZID TD-042-HSD TD-042-ZSD TD-042-ZSDI

FIELD

600V PWR MCC DV2

DV-2 LIMITORQUE MX-20

TD 042 ZSB — NOTE 1
1 — AS1 — 2
TD 042 ZSD
3 — AS2 — 4
TD 042 ZSD-1
42 — AS4 — 43

APEGM Certificate of Authorization SNC-Lavalin Inc. No. 4489

PUMP LOCAL CONTROL PANEL

120VAC PWR SPLY, PNL E CCT. #6 — 20560H, 20560N

LEGEND:
- EXISTING
- NEW WORK
- DEMOLITION

REFER TO DWG D-3408

TD 042 HS — EMSTOP, OCL, OOX

TD 042 HSO, TD 042 HSD, TD 042 HSB

STOP, OPEN, CLOSE, XOO, OOX

COMP, FLOOD

REFER TO DWG D-3408

NOTE 2 — 8 — TB11 — TO MCC-M710 — 9, 10 — NOTE 2

NOTE 2 — 5 — NOTE 2

NOTE 2 — 7 — NOTE 2

CONSTRUCTION NOTES:

04
1. PROVIDE AND INSTALL FEED THROUGH TERMINALS AND REQUIRED ACCESSORIES TO MODIFY WIRING IN LCP-2 PANEL AS SHOWN. REFER TO DWG. 1-0660M-E0021.
2. PROVIDE INTERNAL WIRING TO MODIFY DISCHARGE VALVES WIRING AS SHOWN

NOTE 2 — NOTE 2

NOTE 2 — NOTE 2

NOTE 2 — NOTE 2

NOTE 2 — 20532A
NOTE 2 — 20532B
REFER TO DWG D-3408

DEMOLITION NOTES:

A — DISCONNECT SELECTOR SWITCH TD-042-HS AND MARK SWITCH AS SPARE.

04

20710 — TD 042 ZIB — 20700, 2070N, 20720

20730 — TD 042 ZID

MAIN CONTROL PANEL

120VAC POWER SUPPLY, PNL E CCT. #7 — 2A — 1055H, 1055N

20590 — 15791 — 2 — R 00010 — 7
20571 — 15781 — 2 — R 00001 — 7
15780
DV2-8N

R00009: 1, 4, 3 — DV2-5
R00010: 1, 4, 3 — DV2-7

120VAC POWER SUPPLY, PNL E CCT. #7 — 2A — 1069H, 1069N

10017H — .2A — 10017H
10017
10018H
10018

20700 — 10017
2070N — 1069N
20720 — 10018

00009H, 2A 00009, 00010H, 2A 00010, 10017, 1069N, 10018

PLC

AS-BDAP-208
DISCRETE OUTPUT
PLC GROUP 2, RACK 1, SLOT 4

3 — TMD-042-VB DIGITAL O/P
4 — DV-2 VALVE CLOSE
5 — TMD-042-VD DIGITAL O/P
6 — DV-2 VALVE OPEN

AS-BDEP-210
DISCRETE INPUT
GROUP 2, RACK 3, SLOT 3

1
3 — TMD-042-ZB DIGITAL I/P DV-2 CLOSE STATUS
5 — TMD-042-ZD DIGITAL I/P DV-2 OPEN STATUS

PROVINCE OF MANITOBA — V.V. ELIMBAN Member 34636 — REGISTERED PROFESSIONAL ENGINEER
Oct 18/2019
rev 4

NOTE:
1. AS1 CLOSED WHEN VALVE NOT OPENED
   AS2 CLOSED WHEN VALVE NOT CLOSED
   AS4 CLOSED WHEN VALVE CLOSED
2. ALL LINES FROM MCP TO DV ARE WIRED TO SEPERATE DISCONNECT BLOCKS IN MCP

Reid Crowther Consulting Engineers

DATE		REVISION	APP.
19.10.18	4	ISSUED FOR CONSTRUCTION	SB
02.06.04	3	GENERAL REVISIONS	RWK
97.02.03	2	RCPL RECORD DRAWING	PS

Ironside Controls Ltd. Calgary, Alberta

DATE		REVISION	APP.
95.08.03	1	AS-BUILT	PL
94.09.14	0	ISSUED FOR CONST.	PL
94.08.26	A	ISSUED FOR APPROVAL	PL

JOB NO. 3153
FILENAME D3401

THE CITY OF WINNIPEG
REGIONAL WATER SUPPLY SYSTEM
SUPERVISORY CONTROL AND DATA ACQUISITION

TACHE PUMPING STATION – MCP
PUMP DISCHARGE VALVE DV-2

SCALE
DATE 94.08.26
DES PL DWN LFB
CKD DN APP LK

DRAWING NO. D-3401