

8

7

6

5

4

3

2

1

<PLC LAYOUT>

Base 1

S1	8- ANALOG INPUT, 6ES7231-4HF30-0XB0
S2	8- ANALOG INPUT, 6ES7231-4HF30-0XB0
S3	8- ANALOG INPUT, 6ES7231-4HF30-0XB0
S4	8- ANALOG INPUT, 6ES7231-4HF30-0XB0
S5	8- ANALOG INPUT, 6ES7231-4HF30-0XB0
S6	4- ANALOG DUPUT, 6ES7232-4HD30-0XB0
S7	4- ANALOG DUPUT, 6ES7232-4HD30-0XB0
S8	4- ANALOG DUPUT, 6ES7232-4HD30-0XB0

Base 2

S1	16-AC INPUT, 6ES7321-1FH00-0AA0
S2	16-AC INPUT, 6ES7321-1FH00-0AA0
S3	16-AC INPUT, 6ES7321-1FH00-0AA0
S4	16-AC INPUT, 6ES7321-1FH00-0AA0
S5	16-AC INPUT, 6ES7321-1FH00-0AA0
S6	16-AC INPUT, 6ES7321-1FH00-0AA0
S7	16-AC INPUT, 6ES7321-1FH00-0AA0

Base 3

S1	8-ISO RELAY OUTPUT, 6ES7322-1HF10-0AA0
S2	8-ISO RELAY OUTPUT, 6ES7322-1HF10-0AA0
S3	8-ISO RELAY OUTPUT, 6ES7322-1HF10-0AA0
S4	8-ISO RELAY OUTPUT, 6ES7322-1HF10-0AA0
S5	8-ISO RELAY OUTPUT, 6ES7322-1HF10-0AA0
S6	8-ISO RELAY OUTPUT, 6ES7322-1HF10-0AA0
S7	8-ISO RELAY OUTPUT, 6ES7322-1HF10-0AA0
S8	8-ISO RELAY OUTPUT, 6ES7322-1HF10-0AA0
S9	8-ISO RELAY OUTPUT, 6ES7322-1HF10-0AA0

NOTES:

FUSES & BREAKERS FOR AC SYSTEM:

- 1) 1 AMP, POWER SOURCE STATUS RELAY COIL-CR1
- 2) 15 AMP, SYSTEM POWER BREAKER
- 3) 1 AMP, SYSTEM POWER RELAY COIL-CR2
- 4) 3 AMP, PLC BASE 1
- 5) 2 AMP, SPARE
- 6) 2 AMP, AC DISCRETE INPUT 01
- 7) 5 AMP, AC DISCRETE INPUT 02 - VALVES
- 8) 2 AMP, AC DISCRETE OUTPUT 01
- 9) 5 AMP, AC DISCRETE OUTPUT 02 - VALVES
- 11) ~ 23) 1 AMP, FTS
- 22) 1 AMP, OX10
- 23) ~ 27) 1 AMP, TUNA
- 28) ~ 29) 5 AMP, TRUCK FIL, STATION HEATER
- 31) ~ 33) 1 AMP, INJECTION PUMP#s
- 38) ~ 40) 1 AMP, FCN
- 51) 3 AMP, 24VDC POWER SUPPLY

ELISIS FOR DC SYSTEM:
FAST ACTING GLASS FUSES:

- 61) 1 AMP, ANALOG INPUT
- 62) 1 AMP, ANALOG OUTPUT
- 63) 1 AMP, DC DISCRETE INPUT
- 64) 1 AMP, RELAY OUTPUT CARD POWER
- 71) 1 AMP, PLC BASE 2
- 72) 1 AMP, PLC BASE 3
- 73) 1 AMP, HMI
- 74) 1 AMP, HMI
- 75) 1 AMP, ETHERNET SWITCH
- 76) 1 AMP, SPARE

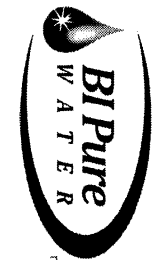
L100 RELAYS:

CR01 POWER SOURCE STATUS
CR02 SYSTEM POWER

SERIAL NUMBER:
#####

LEGEND:

- CONTROL RELAY OR MOTOR CONTACT COIL
- N.O. FLOAT SWITCH
- N.C. FLOAT SWITCH
- N.O. PRESSURE SWITCH
- N.O. FLOW SWITCH
- N.O. TEMPERATURE SWITCH
- FUSE
- GENERAL APPLIANCE
- GROUND
- INDICATOR LIGHT
- MOTOR
- OVERLOAD PROTECTION
- RELAY CONTACT
- SWITCH
- TERMINAL BLOCK
- WIRE NUMBER



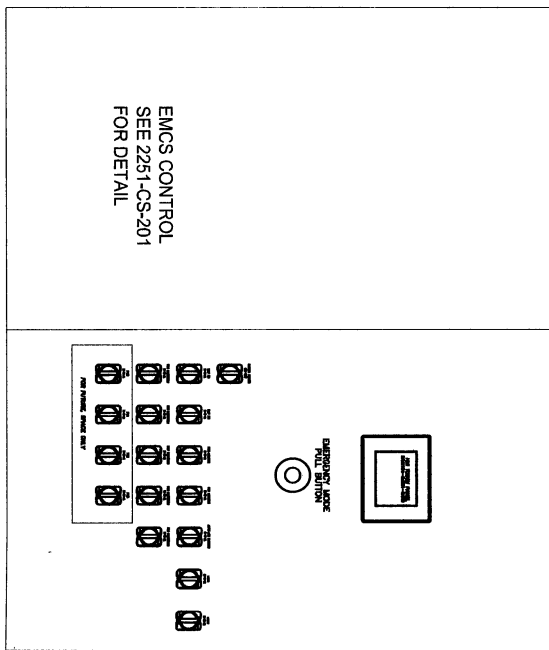
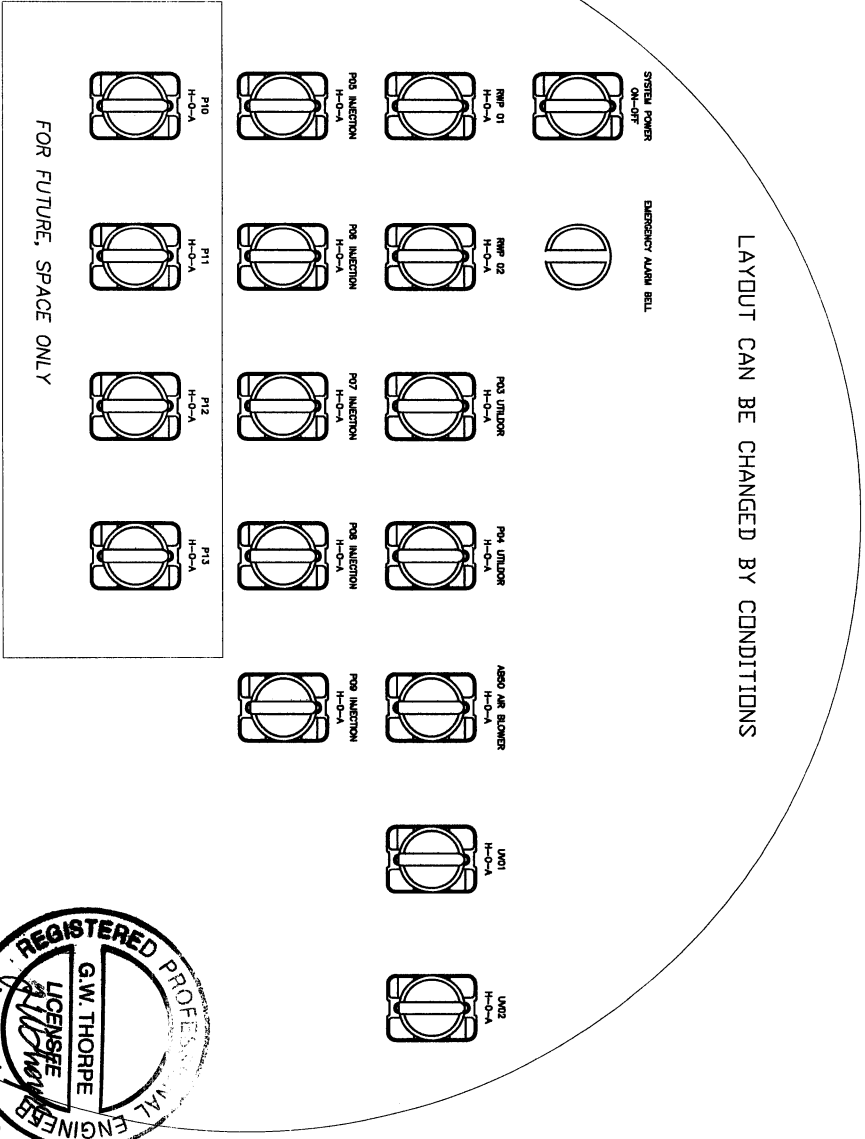
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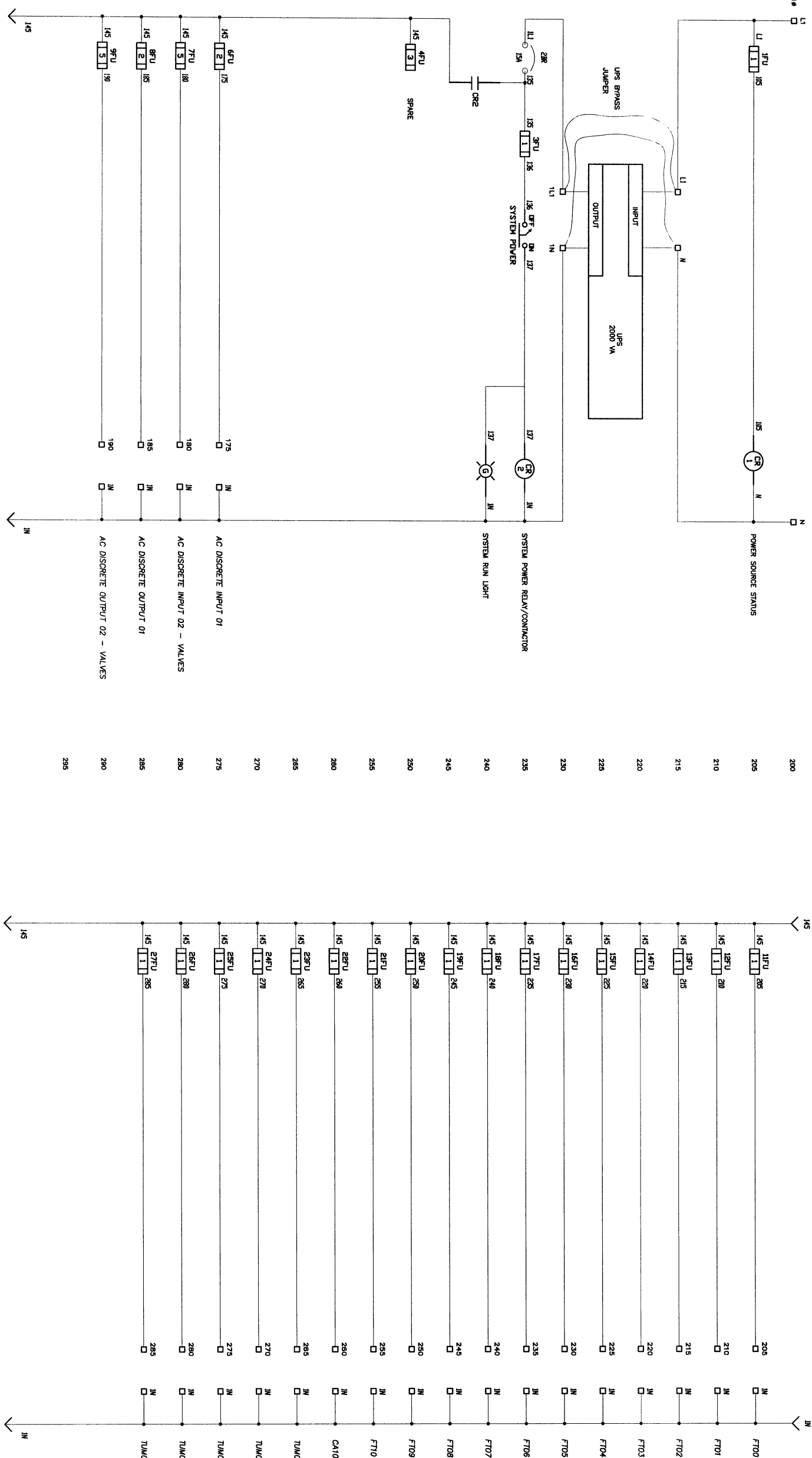
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Issue	Date	Appd	Revision Description
03	OCT 29, 13	PA	AS BUILT - CHANGES PER SITE VISIT
02	MAY, 2013	AS	AS BUILT
01	FEB 10, 12	GT	ISSUED FOR REVIEW

Design By:	JT	Client:	GOVERNMENT OF NUNAVUT	Title:	PLC PANEL LAYOUT
Drawn By:	JK			Project:	BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY
Checked By:	GT			Job#	2251
Submitted				Rev.	03
Approved					





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Issue	Date	App'd	Revision Description
03	OCT 29, 13	GT	AS BUILT - CHANGES PER SITE VISIT
02	SEP 30, 13	GT	AS BUILT
01	FEB 10, 12	GT	ISSUED FOR REVIEW

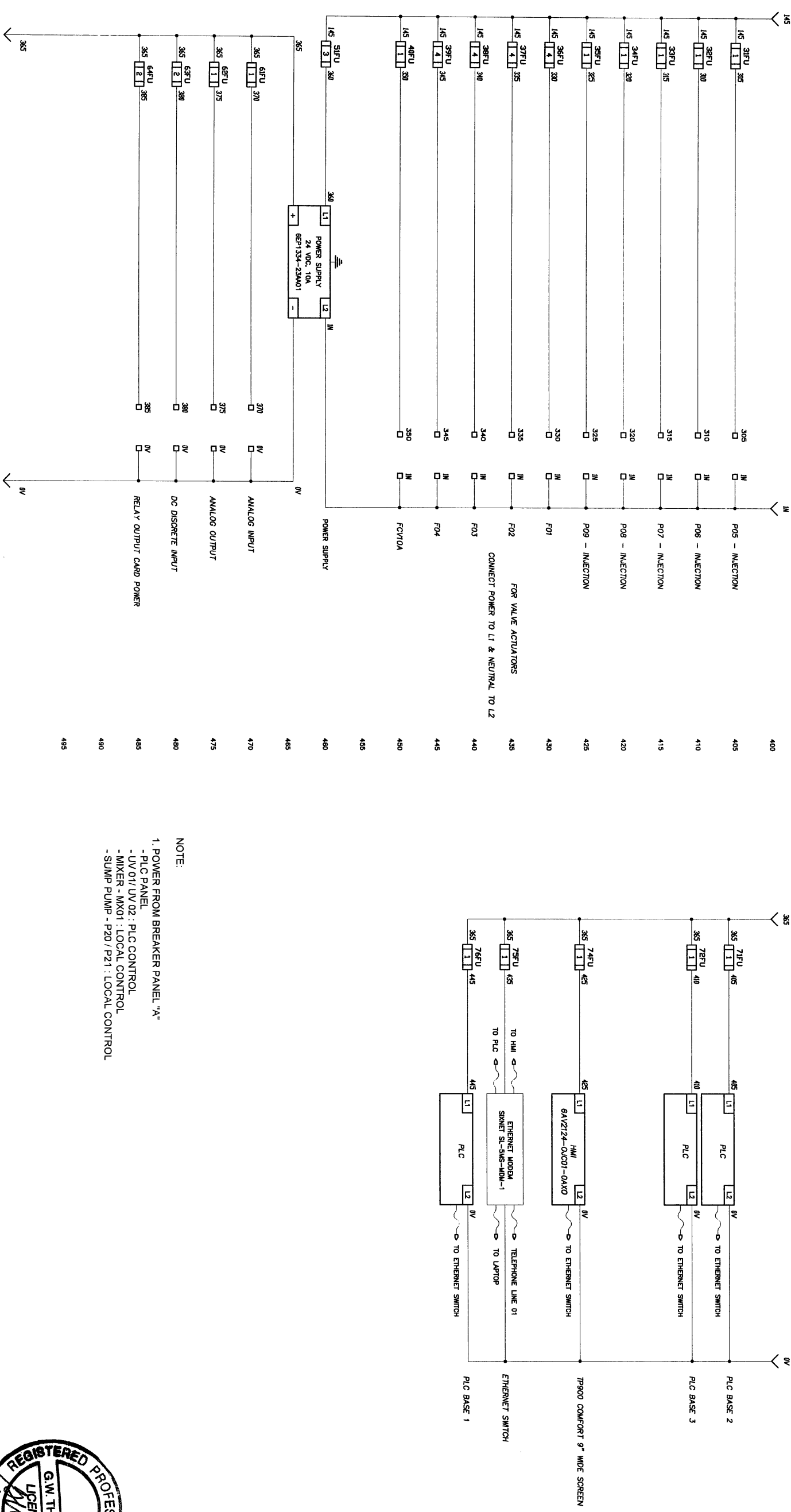
Design By:	Client:	Title:
JT	GOVERNMENT OF NUNAVUT	PLC PANEL POWER DISTRIBUTION

Drawn By:	Checked By:	Submitted	Approved
JK	GT		

Project:	Drawing #	Sheet	Job#	Rev
BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY GN # 07-3023	2251-CS-100	2 of 17	2251	03

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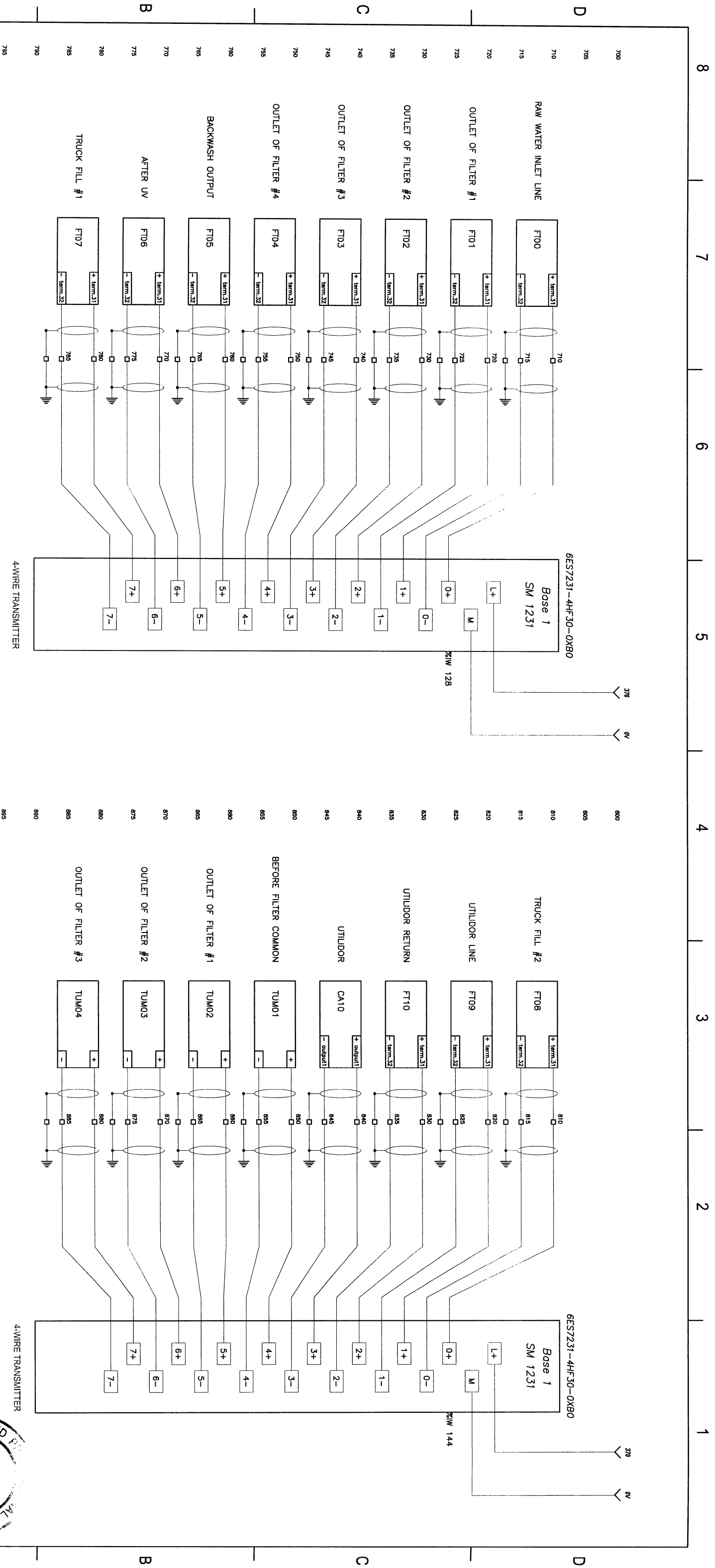
Issue	Date	App'd	Revision Description
03	OCT 29, 13	GT	AS BUILT - CHANGES PER SITE VISIT
02	SEP 30, 13	GT	AS BUILT
01	FEB 10, 12	GT	ISSUED FOR REVIEW

Design By: JT	Client: GOVERNMENT OF NUNAVUT	Title: PLC PANEL POWER DISTRIBUTION
Drawn By: JK		Project: BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY
Checked By: GT		Job #: 2251
Submitted		Rev: 03
Approved		
Revision Description		





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NOTE:
1. FLOW METER OUTPUT IS TO BE SENT TO LOGGED AND TRACKED ON THE OPERATORS PC



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02	SEP 30, 13	GT	AS BUILT
01	FEB 10, 12	GT	ISSUED FOR REVIEW

Design By: JT
Drawn By: JK
Checked By: GT
Submitted: _____
Approved: _____

Client: **GOVERNMENT OF NUNAVUT**

Title: **PLC PANEL BASE 1**

Project: **BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY**

Drawing #: **2251-CS-100**

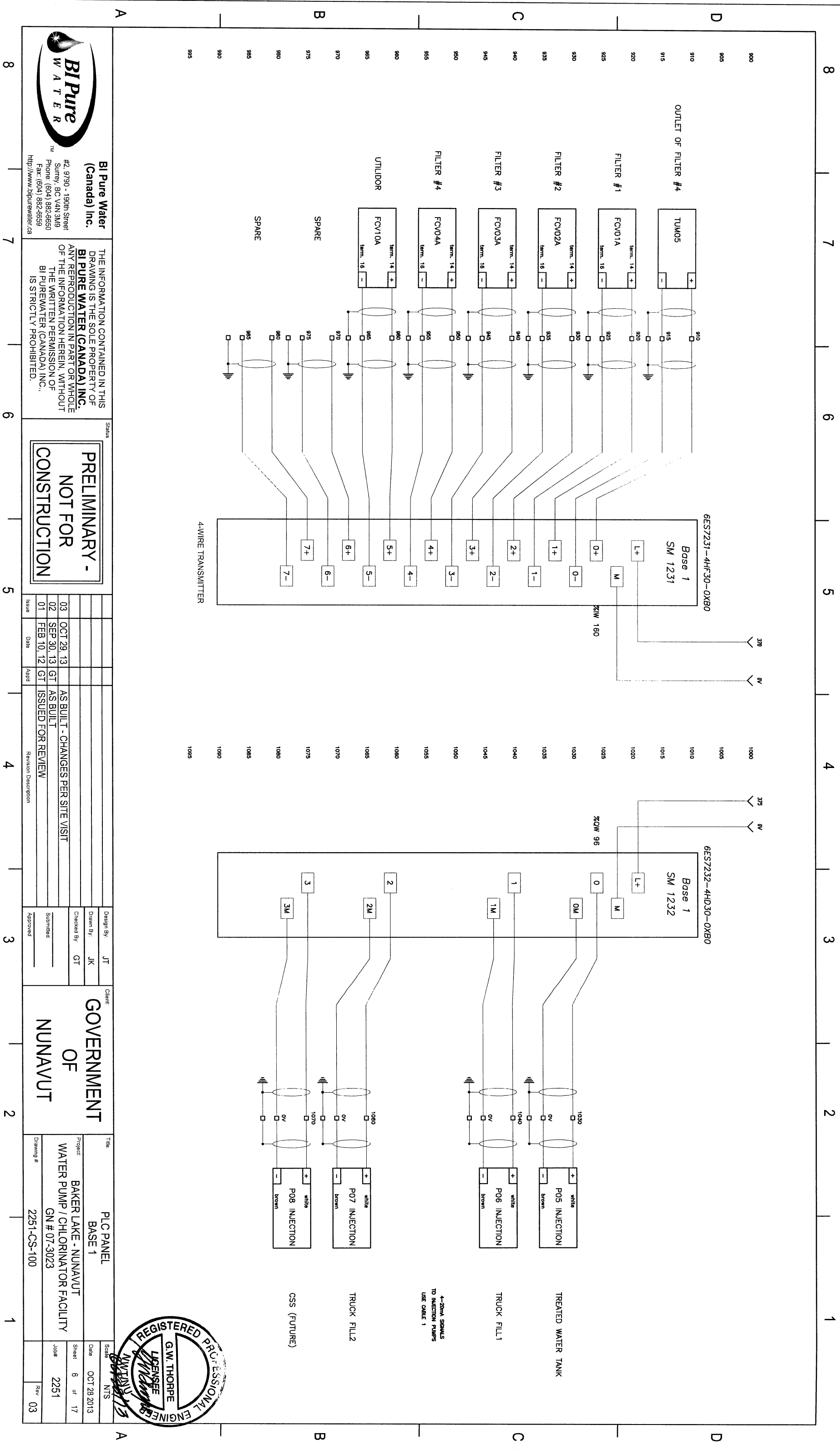
Date: **OCT 28 2013**

Sheet: **5 of 17**

Job#: **2251**

Rev: **03**





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01	FEB 10, 12	GT	ISSUED FOR REVIEW

GOVERNMENT OF NUNAVUT

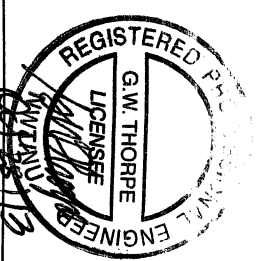
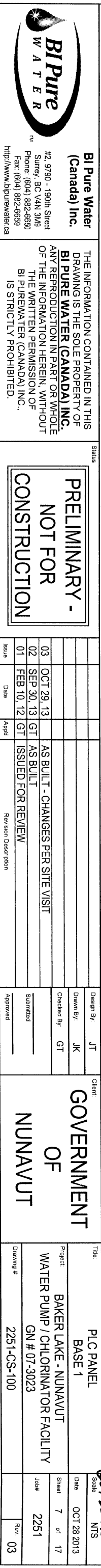
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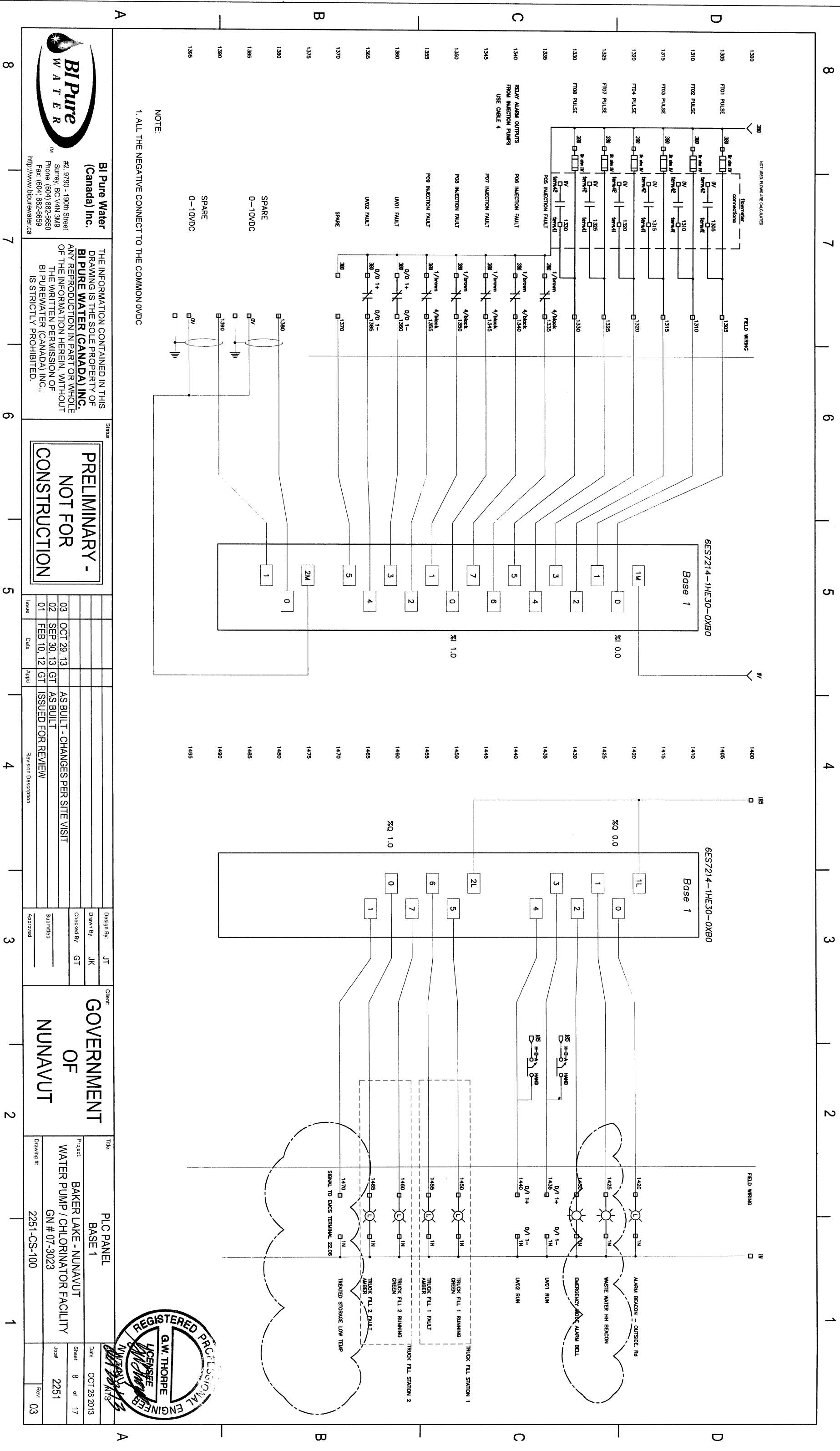
BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY

Job# 2251

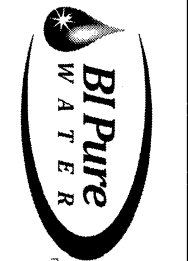
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NOTE:
1. ALL THE NEGATIVE CONNECT TO THE COMMON 0VDC



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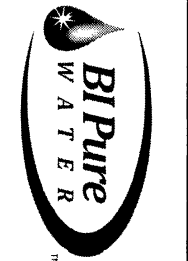
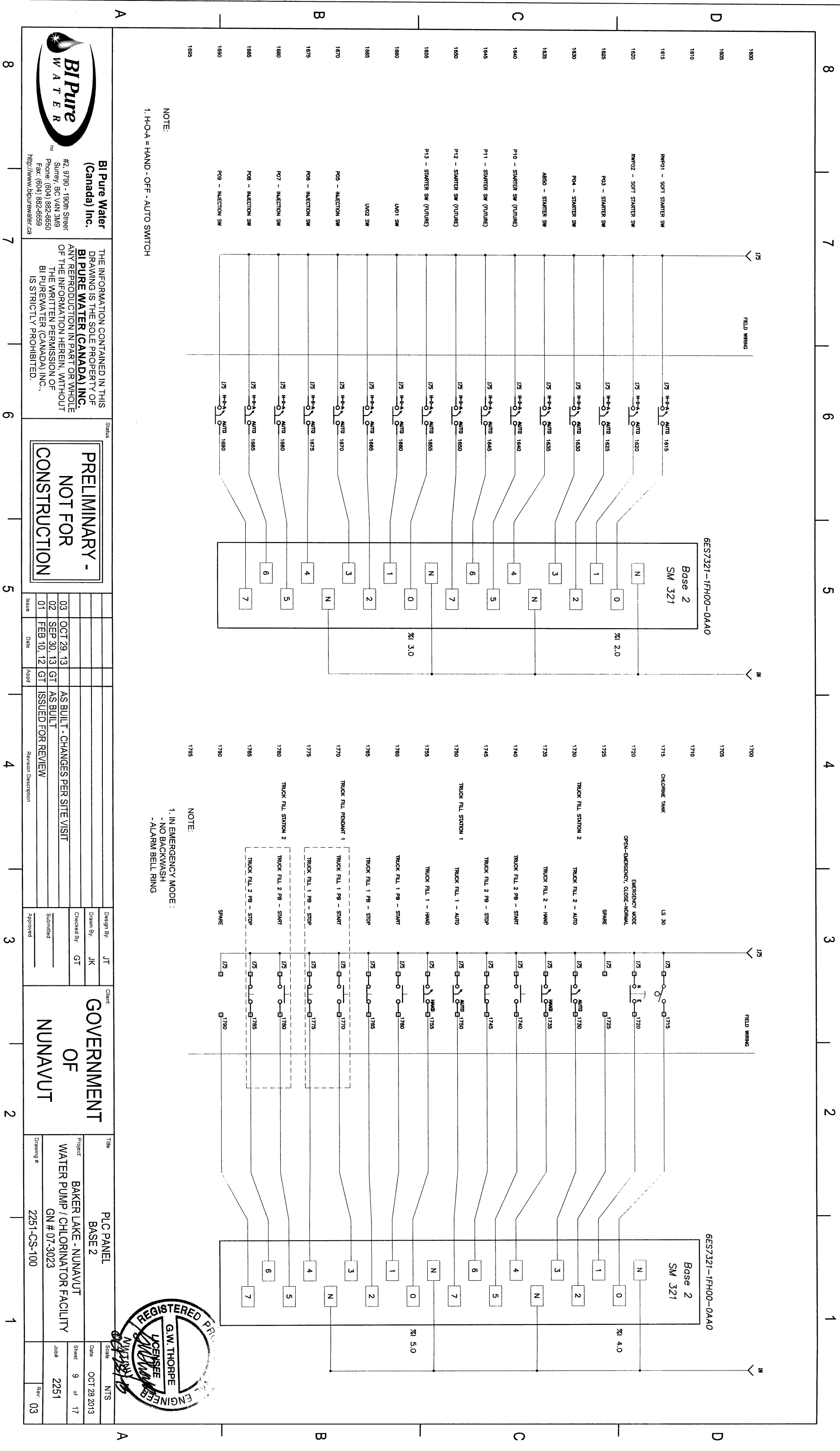
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Issue	Date	Appd	Revision Description
03	OCT 29 13		AS BUILT - CHANGES PER SITE VISIT
02	SEP 30 13	GT	AS BUILT
01	FEB 10 12	GT	ISSUED FOR REVIEW

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Title		Date	
PLC PANEL	BASE 1	OCT 28 2013	
Project	BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY	Sheet	8 of 17
Drawing #	2251-CS-100	Job#	2251
		Rev	03





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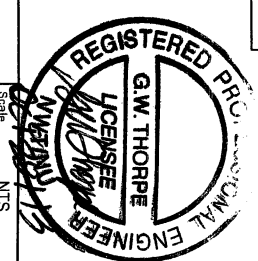
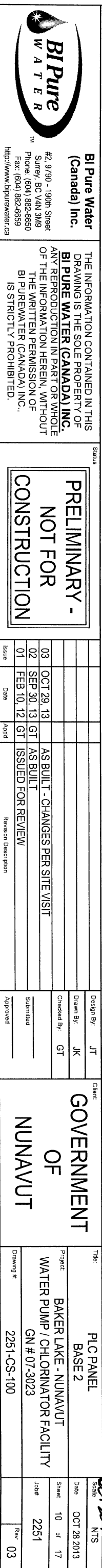
Issue	Date	Appd	Revision Description
03	OCT 29, 13		AS BUILT - CHANGES PER SITE VISIT
02	SEP 30, 13	GT	AS BUILT
01	FEB 10, 12	GT	ISSUED FOR REVIEW

Design By:	JT
Drawn By:	JK
Checked By:	GT
Submitted	
Approved	

GOVERNMENT OF NUNAVUT

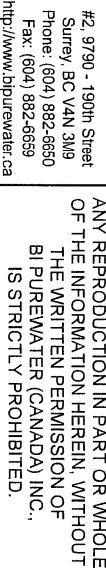
Project	BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY
GN #	07-3023
Job#	2251
Rev	03





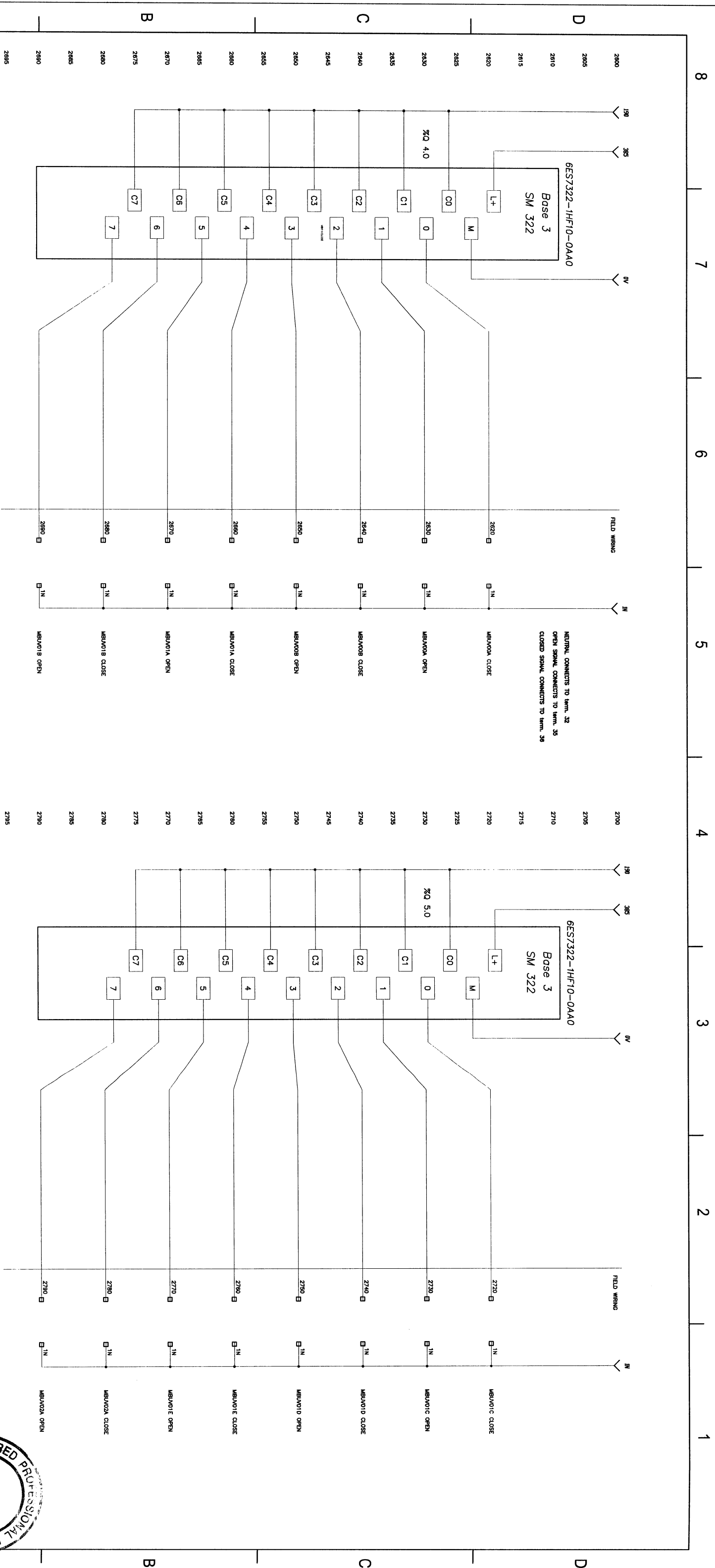


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A vertical number line with tick marks labeled 1 through 8 from bottom to top.



NOTE:

1. MOTORIZED VALVES RUN ONE AT A TIME WITH MINIMUM ONE SECOND INTERVAL



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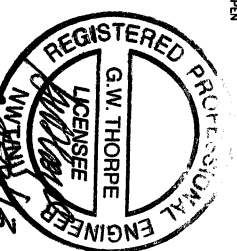
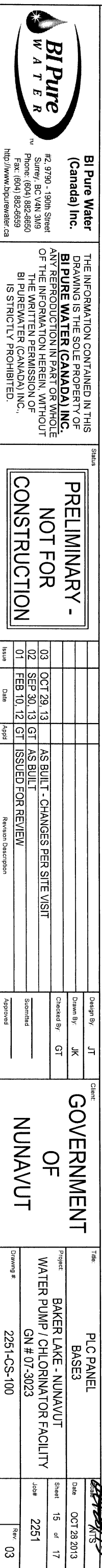
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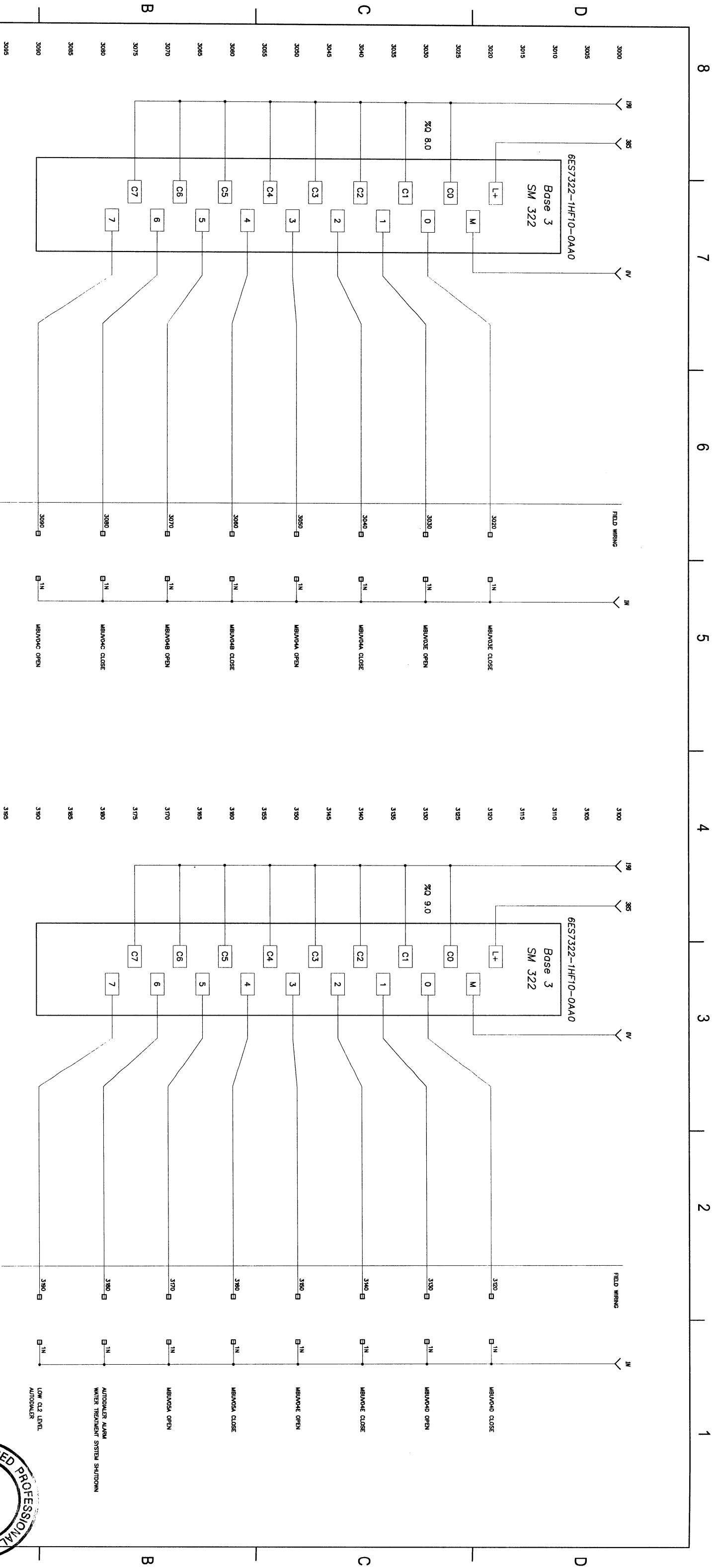
			Design By	JT
			Drawn By	JK
			Checked By	GT
03	OCT 29, '13		AS BUILT - CHANGES PER SITE VISIT	
02	SEP 30, '13	GT		
01	FEB 10, '12	GT		
Issue	Date	App'd	Revision Description	Submitted
			Approved	

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OF
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Title		PLC PANEL BASES	
Project		BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY GN # 07-3023	
Drawing #	2251-CS-100	Sheet	14 of 17
		Job#	2251
		Rev.	03









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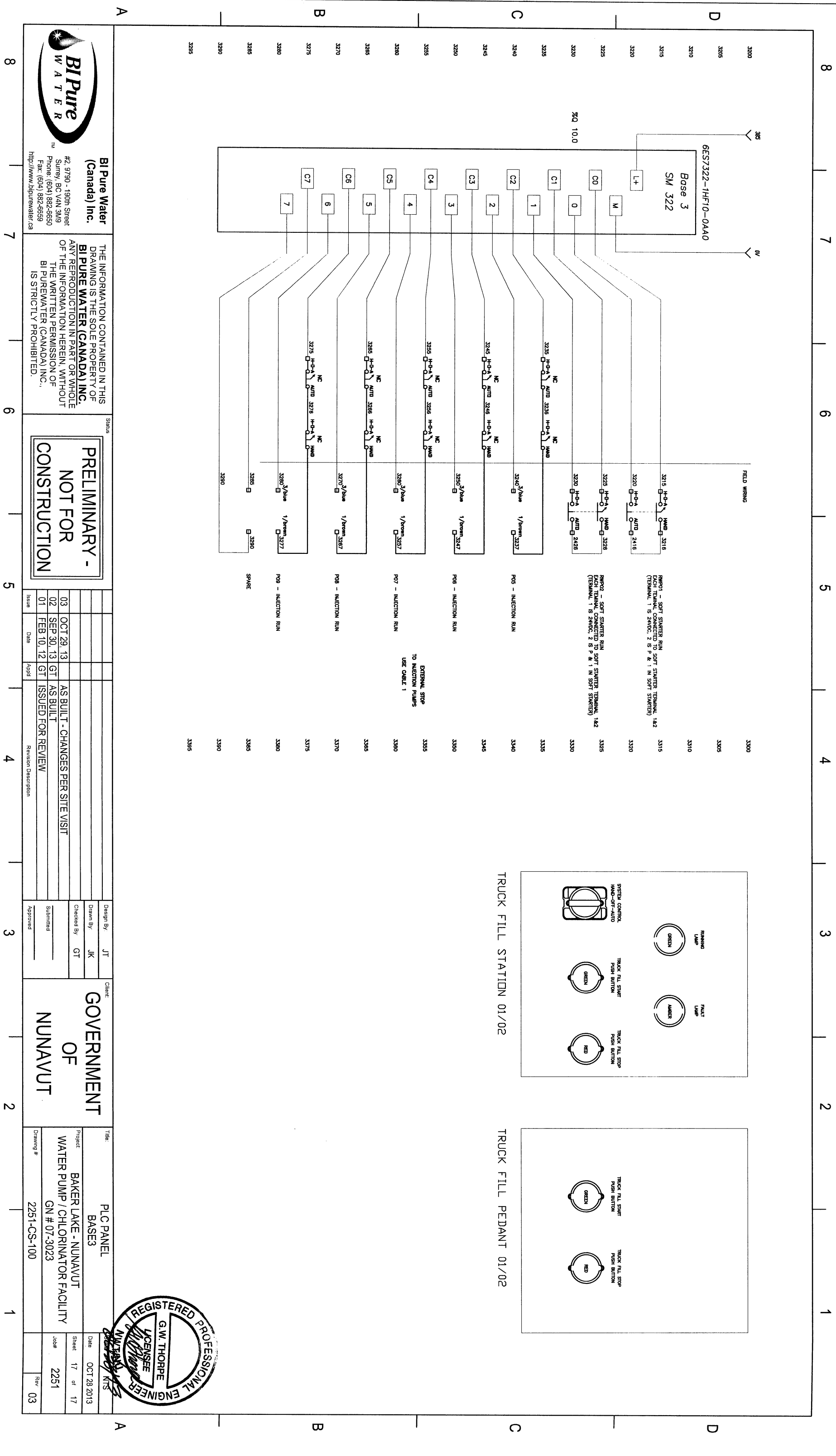
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Design By:	JT
Drawn By:	JK
Checked By:	GT
Submitted:	
Approved:	

GOVERNMENT OF NUNAVUT

Title		Scale
PLC PANEL BASES 3		OCT 28 2013
Project	BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY	Sheet 16 of 17
Drawing #	2251-CS-100	Job# 2251
		Rev 03





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01	FEB 10, 12	GT	ISSUED FOR REVIEW
02	SEP 30, 13	GT	AS BUILT - CHANGES PER SITE VISIT
03	OCT 29, 13	GT	AS BUILT - CHANGES PER SITE VISIT

Design By: JT

Drawn By: JK

Checked By: GT

Submitted: _____

Approved: _____

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PLC PANEL BASE3

Project: **BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY**

Drawing # **2251-CS-100**

Date: **OCT 28 2013**

Sheet **17** of **17**

Job# **2251**

Rev **03**

