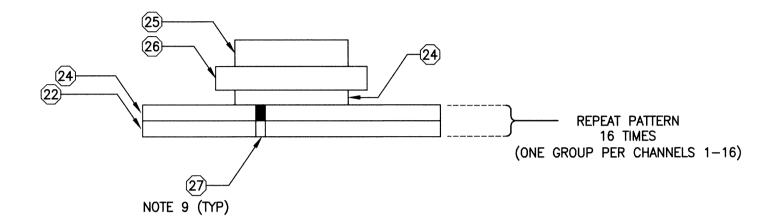
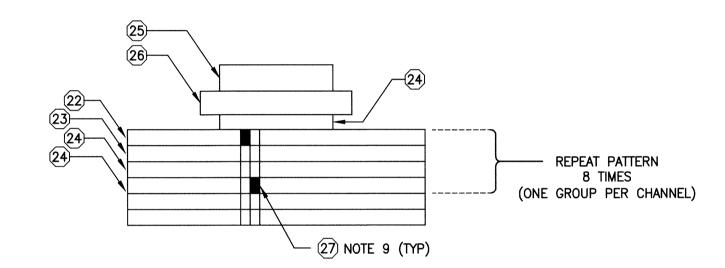


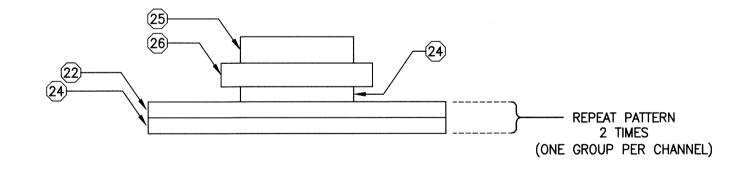
DISCRETE INPUT TERMINAL STRIP ARRANGEMENT $\frac{2}{40.1} \frac{\text{TERMIN}}{\text{SCALE: N.T.S.}}$



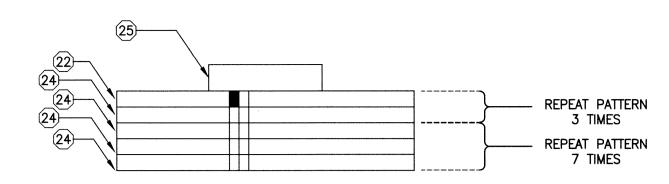
DISCRETE OUTPUT TERMINAL STRIP ARRANGEMENT $\frac{3}{40.1} \frac{\text{TERMIN}}{\text{SCALE: N.T.S.}}$



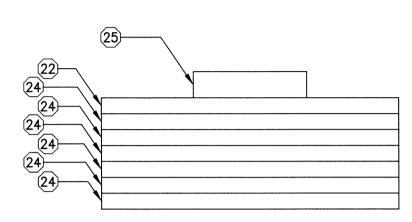
ANALOG INPUT TERMINAL STRIP ARRANGEMENT SCALE: N.T.S.



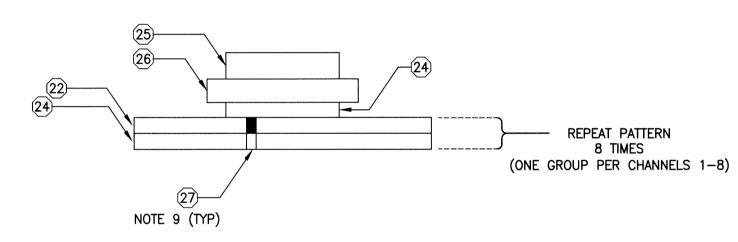
ANALOG OUTPUT TERMINAL STRIP ARRANGEMENT SCALE: N.T.S.



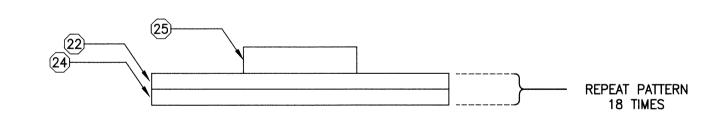
LEVEL CONTROLLER 24VDC TERMINAL STRIP ARRANGEMENT $\begin{array}{c}
6 \\
\hline
40.1
\end{array}$ TERMIN
SCALE: N.T.S.



 $\frac{7}{40.1}$ TERMIN SCALE: N.T.S. TERMINAL STRIP ARRANGEMENT



DISCRETE INPUT TERMINAL STRIP ARRANGEMENT SCALE: N.T.S.



24VDC POWER TERMINAL STRIP ARRANGEMENT SCALE: N.T.S.

$\vdash \rightarrow \vdash$	TD2 TIMING RELAY	PHOENIX CONTACT	ETD-BL-1T-OFF-CC-10S	1	-
40	TD1 TIMING RELAY	PHOENIX CONTACT	ETD-BL-1T-0N-10S	1	_
39	RTU PUSHBUTTON	ALLEN BRADLEY	800H-AR7D1	1	
38	LOCAL PUSHBUTTON	ALLEN BRADLEY	800H-AR9D2	1	_
37)	RESET PUSHBUTTON	ALLEN BRADLEY	800H-AR6D1	1	_
36	RTU LED LIGHT	ALLEN BRADLEY	800H-QRTH2B	1	_
35)	LOCAL LED LIGHT	ALLEN BRADLEY	800H-QRTH2A	1	-
34)	FAIL TO LOCAL LED LIGHT	ALLEN BRADLEY	800H-QRTH2R	1	_
(33)	ALARM INHIBIT/NORMAL SELECTOR SWITCH	ALLEN BRADLEY	800H-HP2KB6AXXX	1	
32	UPS BATTERY	PHOENIX CONTACT	QUINT-BAT/24DC/3.4AH	1	
(31)	MULTI RANGER 100/200	SIEMENS		1	
30	MINI MOORE MIT	MOORE IND.		1	
29	RELAY SPDT	PHEONIX CONTACT	PLC-RSC-24DC/21	3	
28	PANEL	HOFFMAN	A72P48F1	1	
27)	TERMINAL BLOCK PLUG IN CROSS CONNECTION COMB			A/R	SEE NOTE 9
26	24VDC DIN RAIL MOUNTED CIRCUIT BREAKER 5A			7	
	TERMINAL BLOCK MARKER			A/R	
	STRAIGHT THROUGH TERMINAL BLOCK			A/R	SEE NOTE 9
	DISCONNECT TERMINAL BLOCK		***************************************	A/R	SEE NOTE 9
	FUSED TERMINAL /W BLOWN FUSE INDICATION - 24VDC	********	~~~~~	A/R	SEE NOTE 9
.	. 708TX 8 PORT MANAGED ETHERNET SWITCH	N-TRON	708TX	÷	
19	RELAY DPDT	PHEONIX CONTACT	PLC-RSC-24DC/21-21	3	
\/	3" x 3" PANDUIT	PANDUIT		A/R	
17	4" x 4" PANDUIT	PANDUIT		A/R	
16	STEEL WINDOW KITS SUITABLE FOR NEMA 4 ENCLOSURE (NOT SHOWN)	HOFFMAN	· · · · · · · · · · · · · · · · · · ·	A/R	SEE NOTE 4
14	WIRELESS MODEM C/W SIM CARD WITH MTS ACCOUNT AND EXTERNAL ANTENNA	SIXNET	BT-6801 HSPA	1	
13	LANDLINE MODEM (PART No. 2708203)	PHOENIX CONTACT	PSI-DATA/FAX-MODEM/RS232	1	\wedge
7	"12.1"" TOUCHSCREEN HMI"	SCHNEIDER ELECTRIC	MAGELIS XBTGT6330	1	SEE NOTE 11
10	SCADAPACK 357 RTU	SCHNEIDER ELECTRIC	SCADAPACK 357E	1	
	24VDC POWER SUPPLY / UPS	PHOENIX CONTACT	TRIO-UPS/1AC/24DC/5	1	
8	DIN RAIL			A/R	
	GROUND BAR			2	
	TERMINAL BLOCKS AND ACCESSORIES			A/R	SEE NOTES 1, 3 & 9
(5)	120VAC; 15A CONVENIENCE RECEPTACLE MOUNTED INSIDE PANEL			1	SEE NOTE 10
(4)	FOLDING UTILITY SHELF	HOFFMAN		1	SEE NOTE 6
	DRAWING HOLDER	HOFFMAN		1	SEE NOTE 7
	FLUORESCENT FIXTURE & DOOR LIMIT SWITCH	HOFFMAN		1	SEE NOTE 8
(2)		HOFFMAN	A724818SSFSDN4	1	SEE NOTES 2, 4 & 5
\rightarrow	TWO DOOR WALL/STRUT MOUNTED NEMA 4 ENCLOSURE				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

NOTES:

- 1. MOUNT TERMINAL BLOCKS TO PRESENT FIELD SIDE WIRING UPWARD AT 45' ANGLE.
- 2. PROVIDE NAMEPLATE 'RTU PANEL' TO FRONT DOOR.
- 3. ORIENT LOAD SIDE OF DISCONNECT TYPE INDICATING FUSE TERMINAL BLOCKS TOWARDS FIELD WIRING.
- 4. MOUNT WINDOW KITS ON DOORS TO ALIGN WITH VIEWING RTU 5. ENCLOSURE SIZE SHALL BE 72" H X 48" W X 18" D WITH
- 6. PROVIDE FOLDING UTILITY SHELF ON DOOR (SAME SIDE AS
- RECEPTACLE) TO ALLOW LAPTOP COMPUTER.
- 7. PROVIDE POCKET INSIDE DOOR FOR STORING RELEVANT
- 8. FLUORESCENT FIXTURE TO BE CONTROLLED FROM DOOR ACTIVATED LIMIT SWITCH.
- 9. TERMINAL BLOCKS TO BE 4MM^2 SCREW TERMINAL WITH 3 PLUG-IN CROSS CONNECTION CHANNELS. DESIGN ASSUMES TERMINAL BLOCK WIDTH OF 6.1MM BUT ACCOUNTS FOR WIDER TERMINAL BLOCK DESIGNS BY PROVIDING ADDITIONAL DIN RAIL SPACE SHOULD WIDER TERMINAL BLOCKS BE DESIRED. SHADING DENOTES COMB CONNECTIONS. (TYP.)
- 10. DEDICATED 120VAC CONVENIENCE RECEPTACLE FOR LAPTOP WHILE PROGRAMMING RTV. TO BE LABELED "LAPTOP ONLY". NOT INTENDED TO BE USED FOR UTILITY PURPOSES.

11. TOUCHSCREEN HMI TO BE MOUNTED ON THE LEFT DOOR SO THAT THE DISPLAY IS VISIBLE WHILE THE DOOR IS CLOSED. IT IS TO BE CENTERED HORIZONTALLY ON THE LEFT DOOR AND MOUNTED AT AN ELEVATION OF 5' ABOVE THE FLOOR.

	FIELD BOOK #1				KGS				
	POSTED TO LBIS			GROUP					
						CONSULTING ENGINEERS			
APEGIN						DESIGNED BY	DDW/MAM	CHECKED BY	H
Certificate of Authorization						DRAWN BY	GCN	APPROVED BY	B
KGS Group	1	RE-ISSUED FOR CONSTRUCT	TION :	14/09/11	V	HOR. SCALE		RELEASED FOR CONSTRUCTION	
No. 245	0 NП.	ISSUED FOR CONSTRUCTION REVISIONS	1 1	14/08/18 DATE	ÃP BY	DATE	N.T.S.	NATE	

ENGINEER'S SEAL

A - E40.2

Winnipèg

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

FLOOD PUMPING STATION UPGRADES ASSINIBOINE STATION

CITY DRAWING NUMBER 1-0115F-E0019-002

SHEET 2 OF 2

RTU PANEL ENCLOSURE

ELECTRICAL 120VAC POWER AND FUSE DISTRIBUTION