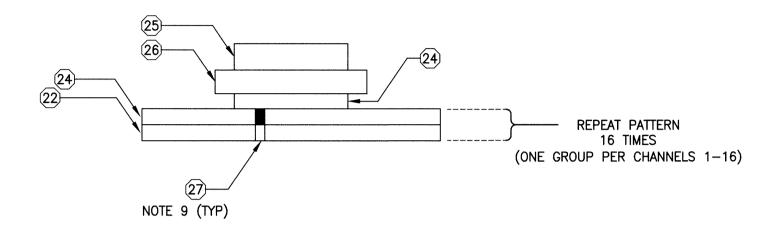
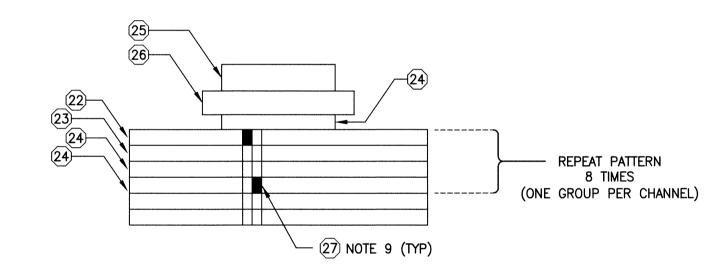


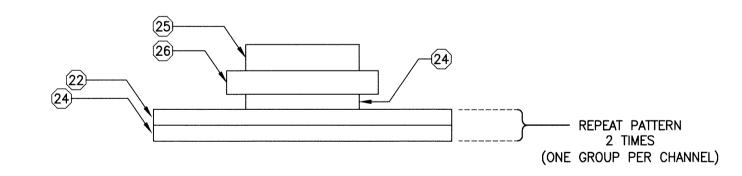
DISCRETE INPUT TERMINAL STRIP ARRANGEMENT SCALE: N.T.S.



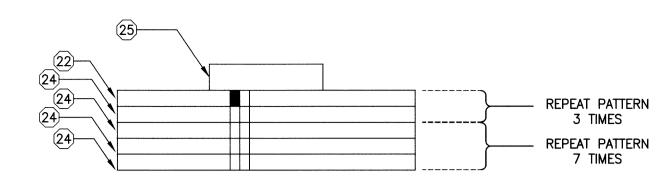
DISCRETE OUTPUT TERMINAL STRIP ARRANGEMENT  $\frac{3}{40.1} \frac{\text{TERMIN}}{\text{SCALE: N.T.S.}}$ 



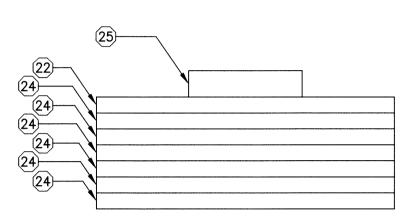
ANALOG INPUT 4 TERMINAL STRIP ARRANGEMENT SCALE: N.T.S.



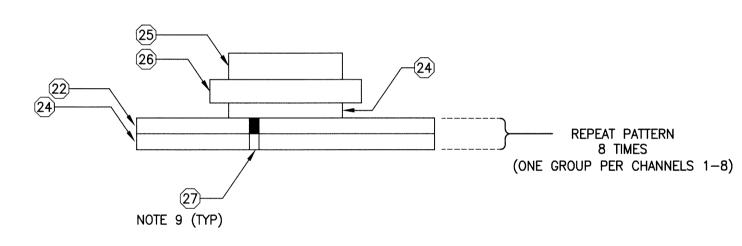
ANALOG OUTPUT TERMINAL STRIP ARRANGEMENT SCALE: N.T.S.



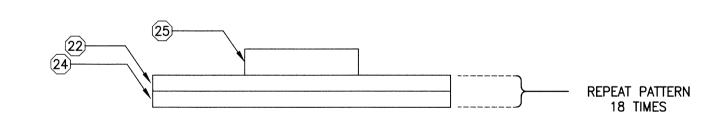
LEVEL CONTROLLER 24VDC TERMINAL STRIP ARRANGEMENT SCALE: N.T.S.



TERMINAL STRIP ARRANGEMENT SCALE: N.T.S.



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



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

TAG	DESCRIPTION	MANUFACTURER	MODEL No.	QTY	COMMENTS
(1)	TWO DOOR WALL/STRUT MOUNTED NEMA 4 ENCLOSURE	HOFFMAN	A724818SSFSDN4	1	SEE NOTES 2, 4 & 5
(2)	FLUORESCENT FIXTURE & DOOR LIMIT SWITCH	HOFFMAN		1	SEE NOTE 8
(3)	DRAWING HOLDER	HOFFMAN		11	SEE NOTE 7
(4)	FOLDING UTILITY SHELF	HOFFMAN		1	SEE NOTE 6
(5)	120VAC; 15A CONVENIENCE RECEPTACLE MOUNTED INSIDE PANEL			1	SEE NOTE 10
6	TERMINAL BLOCKS AND ACCESSORIES			A/R	SEE NOTES 1, 3 & 9
(7)	GROUND BAR			2	
(8)	DIN RAIL			A/R	
9	24VDC POWER SUPPLY / UPS	PHOENIX CONTACT	TRIO-UPS/1AC/24DC/5	1	
10	SCADAPACK 357 RTU		SCADAPACK 357E	1	
(12)	"12.1"" TOUCHSCREEN HMI"	SCHNEIDER ELECTRIC	MAGELIS XBTGT6330	1	
(13)	LANDLINE MODEM (PART No. 2708203)		PSI-DATA/FAX-MODEM/RS232	1	•
(14)	WIRELESS MODEM C/W SIM CARD WITH MTS ACCOUNT AND EXTERNAL ANTENNA	SIXNET	BT-6801 HSPA	1	
(15)	1500 VA ON-LINE UPS; 120 V (NOT SHOWN)		DT 0004 HODE	1	LIEBERT GTX3; APC SMART-UPS RT OR EQUIVA
(16)	STEEL WINDOW KITS SUITABLE FOR NEMA 4 ENCLOSURE (NOT SHOWN)	HOFFMAN		A/R	SEE NOTE 4
(17)	4" x 4" PANDUIT	PANDUIT		A/R	
(18)	3" × 3" PANDUIT	PANDUIT		A/R	_
(19)	RELAY DPDT	PHEONIX CONTACT	PLC-RSC-24DC/21-21	3	
(20)	708TX 8 PORT MANAGED ETHERNET SWITCH	N-TRON	708TX	1	
(21)	OPERATOR TERMINAL	·	700714		SEE NOTE 11
(22)	FUSED TERMINAL /W BLOWN FUSE INDICATION — 24VDC			A/R	SEE NOTE 9
<u>(23)</u>	DISCONNECT TERMINAL BLOCK			A/R	SEE NOTE 9
(24) (33)	STRAIGHT THROUGH TERMINAL BLOCK			A/R	SEE NOTE 9
(25)				A/R	SEE NOTE O
(26) (25)	24VDC DIN RAIL MOUNTED CIRCUIT BREAKER 5A TERMINAL BLOCK MARKER			7 	
(27) (26)				A/R	SEE NOTE 9
_	TERMINAL BLOCK PLUG IN CROSS CONNECTION COMB	FIUFFMAN	A/ZF#OFI		SEE NOTE O
(29) (28)	PANEL	HOFFMAN	A72P48F1	 1	
(30)	RELAY SPDT	PHEONIX CONTACT	PLC-RSC-24DC/21	3	
(31) (30)	MULTI RANGER 100/200 MINI MOORE MIT	SIEMENS MOORE IND.		1	
(32)	UPS BATTERY		QUINT-BAT/24DC/3.4AH	1	_
(33)	ALARM INHIBIT/NORMAL SELECTOR SWITCH		800H—HP2KB6AXXX	1	_
(34)	FAIL TO LOCAL LED LIGHT	ALLEN BRADLEY	800H-QRTH2R	1	<del>-</del>
(35)	LOCAL LED LIGHT	ALLEN BRADLEY	800H—QRTH2A	1	<u> </u>
(36)	RTU LED LIGHT	ALLEN BRADLEY	800H-QRTH2B	1	_
(37)	RESET PUSHBUTTON	ALLEN BRADLEY	800H—AR6D1	1	-
(38)	LOCAL PUSHBUTTON	ALLEN BRADLEY	800H-AR9D2	1	
(39)	RTU PUSHBUTTON	ALLEN BRADLEY	800H—AR7D1	1	-
(40)	TD1 TIMING RELAY		ETD-BL-1T-0N-10S	1	
(41)	TD2 TIMING RELAY		ETD-BL-1T-0FF-CC-10S		

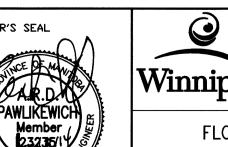
## **NOTES:**

- 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.
- 5. ENCLOSURE SIZE SHALL BE 72" H X 48" W X 18" D WITH

4. MOUNT WINDOW KITS ON DOORS TO ALIGN WITH VIEWING RTU

- 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. PANELVIEW PLUS 6 7" LCD OPERATOR TERMINAL TO BE MOUNTED ON THE RIGHT DOOR SO THAT THE DISPLAY IS VISIBLE WHILE THE DOOR IS CLOSED. IT IS TO BE CENTERED HORIZONTALLY ON THE RIGHT DOOR AND MOUNTED AT AN ELEVATION OF 5' ABOVE THE FLOOR.

	POS	TED TO LBIS	FIELD BOOK #:		KGS GROUP			
				ULTING INEERS				
<b>APEGIN</b>						DESIGNED BY DDW/MAM		CHECKED BY
Certificate of Authorization		- MANAGAMA AND AND AND AND AND AND AND AND AND AN	22.17.21.19.19.19.19.19.19.19.19.19.19.19.19.19			DRAWN BY	GCN	APPR□VED BY
KGS Group						HOR. SCALE	N.T.S.	RELEASED FOR CONSTRUCTION
No. 245	0	ISSUED FOR CONSTRUCTION	DN 1	4/08/18	AP	VERTICAL	N.T.S.	
	N□.	REVISIONS		DATE	BY	DATE	2014 04 04	DATE



A-E40.2

Winnipeg

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

FLOOD PUMPING STATION UPGRADES ASSINIBOINE STATION

SHEET 2 OF 2 CITY DRAWING NUMBER ELECTRICAL

RTU PANEL ENCLOSURE 120VAC POWER AND FUSE DISTRIBUTION

1-0115F-E0019-002