

NOTES:

- 1. CONTROL CABLING SHALL BE RUN IN SEPERATE 380 [1-1/2"] CONDUIT.
- 2. FEEDER SHALL BE IN ACCORDANCE WITH CEC DIAGRAM B-44 DETAIL 2.
- 3. PROVIDE AN ELECTRICAL ENCLOSURE (JB-3) WITH 15A/600V/3P TWISTLOCK RECEPTACLE. AND A 20A/20BY/3P TWISTLOCK RECEPTACLE. ENCLOSURE SHALL HAVE AN INTERNAL PANEL WITH THE RECEPTACLES AND AN EXTERNAL DEAD-FRONT PANEL WHICH IS HINGED AND LOCKABLE. ENCLOSURE SHALL BE NEMA 4 RATED. RECEPTACLES ARE FOR THE HOOK-UP OF FUTURE PORTABLE EQUIPMENT SUCH AS SUMP PUMPS. INSTALL A BARRIER IN THE CONNECTION AREA BETWEEN THE 20BY AND 600V WIRING.
- 4. JUNCTION BOXES FOR THE CONNECTION TO THE PUMPS SHALL HAVE TERMINAL BLOCKS FOR THE CONNECTION OF THE CONTROLS WHICH ARE ISOLATED FROM THE POWER CONNECTION TO THE PUMPS BY A METALLIC BARRIER.
- 5. MDP SHALL BE PROVIDED WITH A LOSS OF POWER ON ANY ONE PHASE SENSOR WITH A SPARE DRY CONTACT TO CONNECT TO CONTROLS/SCADA.

LEGEND:

REDUCED VOLTAGE STARTER

BREAKER

M METER

CURRENT TRANSFORMER

VOLTAGE TRANSFORMER

DISTRIBUTION TRANSFORMER

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MOTOR LOAD

SINGLE LINE / INTERCONNECTION DIAGRAM
SCALE: N.T.S

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

Certificate of Authorization
KGS Group
No. 245 Expiry: April 30, 2008

NOTE: DESIGNED BY REW A. PAWLI	LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES COMMITTEE DATE	B.M. ELEV.			KG GROU	S	& PR	OJECT MA	-1209	ORIGINAL DRAWING	
THAT THE GIVEN LOCATIONS ARE EXACT. COMPRIANTION OF ALL SERVICES MUST BE HOR. SCALE: AS NOTED RELEASED FOR CONSTRUCTION: CONTRUCTION: CON	NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN MEE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GLARANTEE IS GIVEN THAT ALL EXISTING UITLINES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT.		BY AP BY DRAWN APPROVED APPROVED		REW	SIGNED BY A. PAWLIKEWICH 05/12/07					
LOCATION OF ALL SERVICES MUST BE CONSTRUCTION:					HOR. SCALE: AS NOTED VERTICAL: DATE 05/11/08		CONSTRUCTION:				
OBTAINED FROM THE INDIVIDUAL UTILITIES 0 ISSUED FOR CONSTRUCTION 05/12/07 AP		_							CONSULTANT DRAWING		



THE CITY OF WINNIPEG WATER & WASTE DEPARTMENT

HAWTHORNE FLOOD PUMPING STATION UPGRADE ELECTRICAL

SINGLE LINE DIAGRAM

SHEET OF 24

CAD FILE DRAWING NUMBER O5-0107-13

CITY DRAWING NUMBER

LD-3256

OWI FGFND