FEED FROM FEED FROM MANITOBA MANITOBA HYDRO HYDRO MANITOBA HYDRO MANITOBA HYDRO TRANSFORMER TRANSFORMER 12.47kV PRIMARY 12.47kV PRIMARY 750KVA 750KVA 600V SECONDARY 600V SECONDARY TF-9 TF-10 EXISTING 600V, 1600A SWITCHGEAR 3C, 2AWG IN RIGID — (METAL) CONDUIT RUN OUTSIDE OF N/C SWITCHGEAR , 225A 100% RATED TIE BREAKER N/O NOTE 2 NOTE 2 NOTE 2 NOTE 2 EXISTING LOADS EXISTING LOADS 3C, 2AWG, TECK 90, 1000V ---TRANSFER SWITCH FIRE PUMP FIRE PUMP CONTROLLER CONTROLLER 400KW STANDBY GENERATOR (NOT EMERGENCY 3C, 2AWG, TECK 90, 1000V — GENERATOR AS PER CSA C282) FIRE PUMP P-G972 60 HP P-G971 SINGLE LINE DIAGRAM

NOTES:

- INSTALLATION OF FIRE PUMPS SHALL COMPLY WITH NFPA 20 AND CANADIAN ELECTRICAL CODE, LATEST EDITIONS.
- 2. 225A, 600V, 50kA, 3 POLE, 100% RATED, THERMAL—MAGNETIC SCHNEIDER ELECTRIC BREAKER IN INDIVIDUAL ENCLOSURE LLL36250CU31X.
- 3. ADD BUS PADS TO EXISTING INCOMING TERMINATIONS ON LINE SIDE OF MAIN BREAKER. CONNECTIONS SHALL BE COMPRESSION LUGS. CABLES SHALL RUN OUT OF THE TOP OF THE SWITCHGEAR IN RIGID (METAL) CONDUIT OVER TO NEW BREAKER ENCLOSURES MOUNTED ON THE END OF THE SWITCHGEAR. SHALL BE DONE FOR BOTH INCOMING FEEDERS FROM TRANSFORMERS AS PER THE DRAWING. ADD PROPER BUS INSULATION TO MODIFIED INCOMING BUS (INSULATION BOOTS).
- 4. FIRE PUMP CONTROLLER SHALL BE WITH GROUND FAULT DETECTION C/W VISUAL INDICATION AND HARDWIRED BACK TO PLC FOR ALARM STATUS.
- 5. AFTER MODIFICATION, EXISTING 600V, 1600A SWITCHGEAR SHALL BE RE-CERTIFIED BY ORGANIZATION ACCREDITED BY THE STANDARDS COUNCIL OF CANADA.

BID OPPORTUNITY NO. 502-2017

AECOM REVIEW DRFT CHK

JECOM FILE NAME: 1-06004-E0006-001.dwg

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Certificate of Authorization

AECOM Canada Ltd.

No. 4671 Date: 18/05/09

LOCATION APPROVED

UNDERGROUND STRUCTURES

SUPR. U/G STRUCTURES

DATE
COMMITTEE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES
AS SHOWN ARE BASED ON THE BEST
INFORMATION AVAILABLE. BUT NO
GUARANTEE IS GIVEN THAT ALL EXISTING
UTILITIES ARE SHOWN OR THAT THE GIVEN
LOCATIONS ARE EXACT. CONFIRMATION OF
EXISTENCE AND EXACT LOCATION OF ALL
SERVICES MUST BE OBTAINED FROM THE
INDIVIDUAL UTILITIES BEFORE PROCEEDING

WITH CONSTRUCTION.

SCALE: N.T.S.

DESIGNED BY RB CHECKED BY SS

DRAWN BY RB APPROVED BY

HOR. SCALE N.T.S.

O ISSUED FOR PHASE 2 & 3: BID OPP. 502-2017 18/05/09 RB

NO. REVISIONS YY/MM/DD BY

DATE

DESIGNED BY RB

CHECKED BY

SS

HOR. SCALE N.T.S.

VERT. SCALE

DATE

PROFESSIONAL'S SEAL

Winnipe

CONSULTANT DRAWING NO.

E0006

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

SHOAL LAKE
AQUEDUCT INTAKE FACILITY
FIRE PUMP UPGRADES

ELECTRICAL

26 27

CITY DRAWING NUMBER

REV

SINGLE LINE DIAGRAM

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