



1-0101Y-A0004-001 CS 40ø  
GLYCOL SUPPLY LINE FROM BOILER SYSTEM

1-0101Y-A0004-001 GR 25ø → GR 40ø  
GLYCOL RETURN LINE FROM UNIT HEATER Y690-UH

1-0101Y-A0006-001  
GLYCOL SUPPLY LINE TO HEATING PUMPS Y630-P & Y635-P

1-0101Y-A0004-001  
GLYCOL SUPPLY LINE FROM BOILER NO.2 (SLAVE) Y612-B

1-0101Y-A0004-001  
GLYCOL RETURN LINE TO BOILER NO.2 (SLAVE) Y612-B

1-0101Y-A0004-001  
GLYCOL SUPPLY LINE FROM BOILER NO.1 (MASTER) Y611-B

1-0101Y-A0004-001  
GLYCOL RETURN LINE TO BOILER NO.1 (MASTER) Y611-B

- CONSTRUCTION NOTES:**
- REVISE WIRING FOR SNOW MELT CONTROLLER AND REWIRE TO LOCAL PLC. USE SPARE I/O AS NEEDED.
  - UPDATE PLC PROGRAM WITH FUNCTIONALITY OF PREVIOUS SNOW MELT CONTROLLER.
  - REPLACE SNOW MELT SYSTEM ACTUATORS AND TEMPERATURE SENSORS.

**HAULED WASTEWATER BUILDING NO. 1**  
(FORMERLY HAULED WASTEWATER BUILDING)

**HAULED WASTEWATER BUILDING NO. 2**  
(FORMERLY LEACHATE RECEIVING BUILDING)

**APEGM**  
Certificate of Authorization  
Stantec Consulting Ltd.  
No. 1301

**WARNING**  
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:  
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.  
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.  
SEE PROVINCIAL REGULATION 140/92 FOR DETAILS

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**LOCATION APPROVED UNDERGROUND STRUCTURES**

SUPV. U/G STRUCTURES COMMITTEE	DATE

**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.

NO.	REVISIONS	DATE	BY
11	ISSUED FOR TENDER	16.03.09	D.R.
10	REVISED AS PER PHASE 2 UPGRADES	16.03.07	D.R.
9	ISSUED FOR TENDER REVIEW	16.03.02	D.R.
8	ISSUED FOR 95% REVIEW	16.01.29	D.R.

<b>Stantec</b> 500-311 Portage Ave, Winnipeg MB Canada www.stantec.com	
DESIGNED BY: S.L.	CHECKED BY: D.R.
DRAWN BY: E.G.D.	APPROVED BY: S.K.B.
HOR. SCALE: AS NOTED	RELEASED FOR CONSTRUCTION:
DATE: 2016.01.12	DATE:

ENGINEER'S SEAL

TENDER NO. **952-2015**

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

**Winnipeg**

**NORTH END SEWAGE TREATMENT PLANT (NEWPC)**  
HAULED LIQUID WASTE FACILITY PHASE II UPGRADE  
HAULED WASTEWATER BUILDING I  
PROCESS & INSTRUMENTATION DIAGRAM  
HEAT RECOVERY VENTILATOR Y650-HRV & HEATING PUMP Y640-P

CITY DRAWING NUMBER: **1-0101Y-A0005-001**

SHEET **8** OF **20**