Corporate Finance Department
*Purchasing Division*

# 593-2024B ADDENDUM 7

## CONSTRUCTION OF NORTH GARAGE REPLACEMENT

ISSUED: April 24, 2025
BY: Arthur Anderson, C.E.T., CCCA
TELEPHONE NO. 204 801-7579

**URGENT**

**PLEASE FORWARD THIS DOCUMENT TO WHOEVER IS IN POSSESSION OF THE BID/PROPOSAL**

**THIS ADDENDUM SHALL BE INCORPORATED INTO THE BID/PROPOSAL AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS**

Template Version: Add 2024-02-01

**Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid/Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid/Proposal may render your Bid/Proposal non-responsive.**

## PART B – BIDDING PROCEDURES

Revise: B2.1 to read: The Submission Deadline is 12:00 noon Winnipeg time, May 14th, 2025.

Note: all pre-qualified Bidders were advised of an extension prior to the release of Addendum 7.

## DRAWINGS

**Architectural**

The following Architectural drawings are to be replaced or added, and are included in PDF file 593-2024B_Addendum_7_Drawing_Arch-IFC-R2:

Replace: 593-2024B_Drawing_00-G-001_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-G-001_IFC-R2

593-2024B_Drawing_00-G-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-G-102_IFC-R2

593-2024B_Drawing_00-A-001_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-001_IFC-R2

593-2024B_Drawing_00-A-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-101_IFC-R2

593-2024B_Drawing_00-A-113_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-113_IFC-R2

593-2024B_Drawing_00-A-104_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-104_IFC-R2

593-2024B_Drawing_00-A-105_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-105_IFC-R2

593-2024B_Drawing_00-A-113_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-113_IFC-R2

593-2024B_Drawing_00-A-501_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-501_IFC-R2

593-2024B_Drawing_00-A-502_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-502_IFC-R2

593-2024B_Drawing_00-A-505_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-505_IFC-R2

593-2024B_Drawing_00-A-510_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-510_IFC-R2

593-2024B_Drawing_00-A-511_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-511_IFC-R2

593-2024B_Drawing_00-A-514_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-514_IFC-R2

593-2024B_Drawing_00-A-520_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-520_IFC-R2

593-2024B_Drawing_00-A-521_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-521_IFC-R2

593-2024B_Drawing_00-A-540_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-540_IFC-R2

593-2024B_Drawing_00-A-541_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-541_IFC-R2

593-2024B_Drawing_00-A-550_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-550_IFC-R2

593-2024B_Drawing_00-A-551_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-551_IFC-R2

593-2024B_Drawing_00-A-801_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-801_IFC-R2

593-2024B_Drawing_00-A-802_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-A-802_IFC-R2

593-2024B_Drawing_00-AS101_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-AS101 IFC-R2

593-2024B_Drawing_10-A-151_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-151_IFC-R2

593-2024B_Drawing_10-A-152_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-152_IFC-R2

593-2024B_Drawing_10-A-201_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-201_IFC-R2

593-2024B_Drawing_10-A-351_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-351_IFC-R2

593-2024B_Drawing_10-A-352_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-352_IFC-R2

593-2024B_Drawing_10-A-402_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-402_IFC-R2

593-2024B_Drawing_10-A-403_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-403_IFC-R2

593-2024B_Drawing_10-A-410_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-410_IFC-R2

593-2024B_Drawing_10-A-411_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-411_IFC-R2

593-2024B_Drawing_10-A-420_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-420_IFC-R2

593-2024B_Drawing_10-A-501_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-501_IFC-R2

593-2024B_Drawing_10-A-502_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-502_IFC-R2

593-2024B_Drawing_10-A-503_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-503_IFC-R2

593-2024B_Drawing_10-A-601_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-601_IFC-R2

593-2024B_Drawing_10-A-602_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-A-602_IFC-R2

593-2024B_Drawing_20-A-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-102_IFC-R2

593-2024B_Drawing_20-A-152_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-152_IFC-R2

593-2024B_Drawing_20-A-153_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-153_IFC-R2

593-2024B_Drawing_20-A-302_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-302_IFC-R2

593-2024B_Drawing_20-A-351_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-351_IFC-R2

593-2024B_Drawing_20-A-352_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-352_IFC-R2

593-2024B_Drawing_20-A-353_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-353_IFC-R2

593-2024B_Drawing_20-A-401_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-401_IFC-R2

593-2024B_Drawing_20-A-403_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-403_IFC-R2

593-2024B_Drawing_20-A-410_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-410_IFC-R2

593-2024B_Drawing_20-A-411_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-411_IFC-R2

593-2024B_Drawing_20-A-413_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-413_IFC-R2

593-2024B_Drawing_20-A-420_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-420_IFC-R2

593-2024B_Drawing_20-A-501_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-501_IFC-R2

593-2024B_Drawing_20-A-502_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-502_IFC-R2

593-2024B_Drawing_20-A-503_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-503_IFC-R2

593-2024B_Drawing_20-A-601_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-601_IFC-R2

593-2024B_Drawing_20-A-602_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-A-602_IFC-R2

593-2024B_Drawing_30-A-151_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-151_IFC-R2

593-2024B_Drawing_30-A-152_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-152_IFC-R2

593-2024B_Drawing_30-A-153_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-153_IFC-R2

593-2024B_Drawing_30-A-351_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-351_IFC-R2

593-2024B_Drawing_30-A-352_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-352_IFC-R2

593-2024B_Drawing_30-A-353_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-353_IFC-R2

593-2024B_Drawing_30-A-401_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-401_IFC-R2

593-2024B_Drawing_30-A-402_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-402_IFC-R2

593-2024B_Drawing_30-A-405_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-405_IFC-R2

593-2024B_Drawing_30-A-406_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-406_IFC-R2

593-2024B_Drawing_30-A-410_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-410_IFC-R2

593-2024B_Drawing_30-A-412_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-412_IFC-R2

593-2024B_Drawing_30-A-501_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-501_IFC-R2

593-2024B_Drawing_30-A-502_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-502_IFC-R2

593-2024B_Drawing_30-A-503_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-503_IFC-R2

593-2024B_Drawing_30-A-504_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-504_IFC-R2

593-2024B_Drawing_30-A-601_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-601_IFC-R2

593-2024B_Drawing_30-A-602_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-A-602_IFC-R2

593-2024B_Drawing_40-A-152_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-152_IFC-R2

593-2024B_Drawing_40-A-201_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-201_IFC-R2

593-2024B_Drawing_40-A-351_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-351_IFC-R2

593-2024B_Drawing_40-A-352_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-352_IFC-R2

593-2024B_Drawing_40-A-353_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-353_IFC-R2

593-2024B_Drawing_40-A-403_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-403_IFC-R2

593-2024B_Drawing_40-A-404_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-404_IFC-R2

593-2024B_Drawing_40-A-405_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-405_IFC-R2

593-2024B_Drawing_40-A-410_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-410_IFC-R2

593-2024B_Drawing_40-A-411_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-411_IFC-R2

593-2024B_Drawing_40-A-413_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-413_IFC-R2

593-2024B_Drawing_40-A-601_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-601_IFC-R2

593-2024B_Drawing_40-A-501_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-501_IFC-R2

593-2024B_Drawing_40-A-502_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-502_IFC-R2

593-2024B_Drawing_40-A-503_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-A-503_IFC-R2

593-2024B_Drawing_40-A-504_IFC-R1 with 593-2024B_Addendum_7_ Drawing_40-A-504_IFC-R2

Add: 593-2024B_Addendum_7_Drawing _00-A-803-R0

593-2024B_Addendum_7_Drawing _00-A-804-R0

593-2024B_Addendum_7_Drawing _00-A-805-R0

**Structural**

The following Structural drawings are to be replaced or added, and are included in PDF file 593-2024B_Addendum_7_Drawing_Struct-IFC-R2:

Replace: 593-2024B_Drawing_00-S-000_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-000_IFC-R2

593-2024B_Drawing_00-S-001-A_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-001-A_IFC-R2

593-2024B_Drawing_00-S-004_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-004_IFC-R2

593-2024B_Drawing_00-S-010_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-010_IFC-R2

593-2024B_Drawing_00-S-011_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-011_IFC-R2

593-2024B_Drawing_00-S-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-101_IFC-R2

593-2024B_Drawing_00-S-151_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-151_IFC-R2

593-2024B_Drawing_00-S-152_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-152_IFC–R2

593-2024B_Drawing_00-S-202_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-202_IFC–R2

593-2024B_Drawing_00-S-251_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-251_IFC–R2

593-2024B_Drawing_00-S-253_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-253_IFC–R2

593-2024B_Drawing_00-S-255_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-255_IFC–R2

593-2024B_Drawing_00-S-256_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-256_IFC–R2

593-2024B_Drawing_00-S-257_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-257_IFC–R2

593-2024B_Drawing_00-S-422_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-422_IFC–R2

593-2024B_Drawing_00-S-500_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-500_IFC–R2

593-2024B_Drawing_00-S-501_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-501_IFC–R2

593-2024B_Drawing_00-S-502_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-502_IFC–R2

593-2024B_Drawing_00-S-503_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-503_IFC–R2

593-2024B_Drawing_00-S-504_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-504_IFC–R2

593-2024B_Drawing_00-S-510_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-510_IFC–R2

593-2024B_Drawing_00-S-552_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-S-552_IFC–R2

Add: 593-2024B_Addendum_7_Drawing_00-S-553–R0

593-2024B_Addendum_7_Drawing_00-S-554–R0

593-2024B_Addendum_7_Drawing_00-S-555–R0

**Mechanical**

The following Mechanical drawings are to be replaced and are included in PDF file 593-2024B_Addendum_7_Drawing_Mech-HVAC-IFC-R2:

Replace: 593-2024B_Drawing_00-M-001_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-001_IFC–R2

593-2024B_Drawing_00-M-002_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-002_IFC–R2

593-2024B_Drawing_00-M-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-102_IFC–R2

593-2024B_Drawing_00-M-103_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-103_IFC–R2

593-2024B_Drawing_00-M-104_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-104_IFC–R2

593-2024B_Drawing_00-M-105_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-105_IFC–R2

593-2024B_Drawing_00-M-501_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-501_IFC–R2

593-2024B_Drawing_00-M-502_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-502_IFC–R2

593-2024B_Drawing_00-M-503_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-503_IFC–R2

593-2024B_Drawing_00-M-504_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-504_IFC–R2

593-2024B_Drawing_00-M-505_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-505_IFC–R2

593-2024B_Drawing_00-M-506_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-506_IFC–R2

593-2024B_Drawing_00-M-508_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-M-508_IFC–R2

593-2024B_Drawing_20-M-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-M-101_IFC–R2

593-2024B_Drawing_20-M-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-M-102_IFC–R2

593-2024B_Drawing_20-M-103_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-M-103_IFC–R2

593-2024B_Drawing_20-M-104_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-M-104_IFC–R2

593-2024B_Drawing_20-M-301_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-M-301_IFC–R2

593-2024B_Drawing_30-M-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-M-101_IFC–R2

593-2024B_Drawing_30-M-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-M-102_IFC–R2

593-2024B_Drawing_30-M-301_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-M-301_IFC–R2

593-2024B_Drawing_30-M-401_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-M-401_IFC–R2

593-2024B_Drawing_40-M-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-M-101_IFC–R2

593-2024B_Drawing_40-M-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-M-102_IFC–R2

593-2024B_Drawing_40-M-301_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-M-301_IFC–R2

593-2024B_Drawing_50-M-601_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-601_IFC–R2

593-2024B_Drawing_50-M-602_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-602_IFC–R2

593-2024B_Drawing_50-M-603_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-603_IFC–R2

593-2024B_Drawing_50-M-604_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-604_IFC–R2

593-2024B_Drawing_50-M-620_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-620_IFC–R2

593-2024B_Drawing_50-M-621_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-621_IFC–R2

593-2024B_Drawing_50-M-632_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-632_IFC–R2

593-2024B_Drawing_50-M-636_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-636_IFC–R2

593-2024B_Drawing_50-M-637_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-637_IFC–R2

593-2024B_Drawing_50-M-638_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-638_IFC–R2

593-2024B_Drawing_50-M-648_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-648_IFC–R2

593-2024B_Drawing_50-M-649_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-M-649_IFC–R2

**Mechanical Fire Protection and Plumbing**

The following Mechanical Fire Protection drawings are to be replaced and are included in PDF file 593-2024B_Addendum_7_Drawing_Mech-PH-FIRE-IFC-R2:

Replace: 593-2024B_Drawing_00-F-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-F-101_IFC–R2

593-2024B_Drawing_00-F-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-F-102_IFC–R2

593-2024B_Drawing_00-F-601_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-F-601_IFC–R2

593-2024B_Drawing_10-P-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-P-101_IFC–R2

593-2024B_Drawing_20-P-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-P-101_IFC–R2

593-2024B_Drawing_30-P-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-P-101_IFC–R2

593-2024B_Drawing_40-P-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-P-101_IFC–R2

593-2024B_Drawing_00-P-601_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-P-601_IFC–R2

593-2024B_Drawing_10-P-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-P-102_IFC–R2

593-2024B_Drawing_20-P-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_20-P-102_IFC–R2

593-2024B_Drawing_30-P-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-P-102_IFC–R2

593-2024B_Drawing_40-P-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_40-P-102_IFC–R2

593-2024B_Drawing_00-P-603_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-P-603_IFC–R2

593-2024B_Drawing_30-P-104_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-P-104_IFC–R2

593-2024B_Drawing_30-P-103_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-P-103_IFC–R2

593-2024B_Drawing_00-P-105_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-P-105_IFC–R2

593-2024B_Drawing_00-P-107_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-P-107_IFC–R2

593-2024B_Drawing_00-P-108_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-P-108_IFC–R2

593-2024B_Drawing_00-P-604_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-P-604_IFC–R2

593-2024B_Drawing_00-P-109_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-P-109_IFC–R2

593-2024B_Drawing_00-P-501_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-P-501_IFC–R2

**Mechanical Industrial**

The following Mechanical Industrial drawings are to be replaced and are included in PDF file 593-2024B_Addendum_7_Drawing_Mech-INDUSTRIAL-IFC-R2:

Replace: 593-2024B_Drawing_00-D-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-D-101_IFC–R2

593-2024B_Drawing_00-D-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_00-D-102_IFC–R2

593-2024B_Drawing_10-D-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-D-101_IFC–R2

593-2024B_Drawing_10-D-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_10-D-102_IFC–R2

593-2024B_Drawing_30-D-101_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-D-101_IFC–R2

593-2024B_Drawing_30-D-102_IFC-R1 with 593-2024B_Addendum_7_Drawing_30-D-102_IFC–R2

593-2024B_Drawing_50-D-601_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-D-601_IFC–R2

593-2024B_Drawing_50-D-602_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-D-602_IFC–R2

593-2024B_Drawing_50-D-603_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-D-603_IFC–R2

593-2024B_Drawing_50-D-604_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-D-604_IFC–R2

593-2024B_Drawing_50-D-605_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-D-605_IFC–R2

593-2024B_Drawing_50-D-606_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-D-606_IFC–R2

593-2024B_Drawing_50-D-607_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-D-607_IFC–R2

593-2024B_Drawing_50-D-608_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-D-608_IFC–R2

593-2024B_Drawing_50-D-609_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-D-609_IFC–R2

593-2024B_Drawing_50-D-610_IFC-R1 with 593-2024B_Addendum_7_Drawing_50-D-610_IFC–R2

**Electrical**

The following Electrical drawings are to be replaced and are included in PDF file 593-2024B_Addendum_7_Drawing_Electrical-IFC-R2:

Replace: 593-2024B_Drawing_G-0002_IFC-R1 with 593-2024B_Addendum_7_Drawing_G-0002_IFC–R2

593-2024B_Drawing_E-0002_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0002_IFC–R2

593-2024B_Drawing_E-0003_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0003_IFC–R2

593-2024B_Drawing_E-0050_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0050_IFC–R2

593-2024B_Drawing_E-0051_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0051_IFC–R2

593-2024B_Drawing_E-0052_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0052_IFC–R2

593-2024B_Drawing_E-0053_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0053_IFC–R2

593-2024B_Drawing_E-0101_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0101_IFC–R2

593-2024B_Drawing_E-0107_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0107_IFC–R2

593-2024B_Drawing_E-0108_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0108_IFC–R2

593-2024B_Drawing_E-0501_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0501_IFC–R2

593-2024B_Drawing_E-0502_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0502_IFC–R2

593-2024B_Drawing_E-0503_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-0503_IFC–R2

593-2024B_Drawing_E-1002_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-1002_IFC–R2

593-2024B_Drawing_E-1003_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-1003_IFC–R2

593-2024B_Drawing_E-1004_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-1004_IFC–R2

593-2024B_Drawing_E-1005_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-1005_IFC–R2

593-2024B_Drawing_E-2101_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2101_IFC–R2

593-2024B_Drawing_E-2102_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2102_IFC–R2

593-2024B_Drawing_E-2103_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2103_IFC–R2

593-2024B_Drawing_E-2104_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2104_IFC–R2

593-2024B_Drawing_E-2106_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2106_IFC–R2

593-2024B_Drawing_E-2107_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2107_IFC–R2

593-2024B_Drawing_E-2109_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2109_IFC–R2

593-2024B_Drawing_E-2110_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2110_IFC–R2

593-2024B_Drawing_E-2111_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2111_IFC–R2

593-2024B_Drawing_E-2201_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2201_IFC–R2

593-2024B_Drawing_E-2202_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2202_IFC–R2

593-2024B_Drawing_E-2301_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2301_IFC–R2

593-2024B_Drawing_E-2302_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2302_IFC–R2

593-2024B_Drawing_E-2500_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2500_IFC–R2

593-2024B_Drawing_E-2600_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2600_IFC–R2

593-2024B_Drawing_E-2601_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2601_IFC–R2

593-2024B_Drawing_E-2608_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-2608_IFC–R2

593-2024B_Drawing_E-3103_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-3103_IFC–R2

593-2024B_Drawing_E-3201_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-3201_IFC–R2

593-2024B_Drawing_E-3202_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-3202_IFC–R2

593-2024B_Drawing_E-3302_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-3302_IFC–R2

593-2024B_Drawing_E-3500_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-3500_IFC–R2

593-2024B_Drawing_E-3550_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-3550_IFC–R2

593-2024B_Drawing_E-3600_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-3600_IFC–R2

593-2024B_Drawing_E-3601_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-3601_IFC–R2

593-2024B_Drawing_E-4000_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-4000_IFC–R2

593-2024B_Drawing_E-4600_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-4600_IFC–R2

593-2024B_Drawing_E-5201_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-5201_IFC–R2

593-2024B_Drawing_E-5202_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-5202_IFC–R2

593-2024B_Drawing_E-5301_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-5301_IFC–R2

593-2024B_Drawing_E-5302_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-5302_IFC–R2

593-2024B_Drawing_E-5600_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-5600_IFC–R2

593-2024B_Drawing_E-5601_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-5601_IFC–R2

593-2024B_Drawing_E-6101_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-6101_IFC–R2

593-2024B_Drawing_E-6102_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-6102_IFC–R2

593-2024B_Drawing_E-6103_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-6103_IFC–R2

593-2024B_Drawing_E-6105_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-6105_IFC–R2

593-2024B_Drawing_E-6108_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-6108_IFC–R2

593-2024B_Drawing_E-6201_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-6201_IFC–R2

593-2024B_Drawing_E-6202_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-6202_IFC–R2

593-2024B_Drawing_E-7110_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7110_IFC–R2

593-2024B_Drawing_E-7200_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7200_IFC–R2

593-2024B_Drawing_E-7201_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7201_IFC–R2

593-2024B_Drawing_E-7202_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7202_IFC–R2

593-2024B_Drawing_E-7300_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7300_IFC–R2

593-2024B_Drawing_E-7302_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7302_IFC–R2

593-2024B_Drawing_E-7500_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7500_IFC–R2

593-2024B_Drawing_E-7701_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7701_IFC–R2

593-2024B_Drawing_E-7702_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7702_IFC–R2

593-2024B_Drawing_E-7703_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7703_IFC–R2

593-2024B_Drawing_E-7704_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7704_IFC–R2

593-2024B_Drawing_E-7800_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7800_IFC–R2

593-2024B_Drawing_E-7900_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-7900_IFC–R2

593-2024B_Drawing_E-8000_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8000_IFC–R2

593-2024B_Drawing_E-8001_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8001_IFC–R2

593-2024B_Drawing_E-8002_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8002_IFC–R2

593-2024B_Drawing_E-8003_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8003_IFC–R2

593-2024B_Drawing_E-8004_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8004_IFC–R2

593-2024B_Drawing_E-8005_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8005_IFC–R2

593-2024B_Drawing_E-8006_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8006_IFC–R2

593-2024B_Drawing_E-8007_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8007_IFC–R2

593-2024B_Drawing_E-8008_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8008_IFC–R2

593-2024B_Drawing_E-8009_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8009_IFC–R2

593-2024B_Drawing_E-8010_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8010_IFC–R2

593-2024B_Drawing_E-8011_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8011_IFC–R2

593-2024B_Drawing_E-8012_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8012_IFC–R2

593-2024B_Drawing_E-8013_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-8013_IFC–R2

593-2024B_Drawing_E-9001_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-9001_IFC–R2

593-2024B_Drawing_E-9002_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-9002_IFC–R2

593-2024B_Drawing_E-9050_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-9050_IFC–R2

593-2024B_Drawing_E-9300_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-9300_IFC–R2

593-2024B_Drawing_E-9400_IFC-R1 with 593-2024B_Addendum_7_Drawing_E-9400_IFC–R2

**Landscape**

The following Landscape drawings are to be replaced or added, and are included in PDF file 593-2024B_Addendum_7_Drawing_Land-IFC-R2:

Replace: 593-2024B_Addendum_7_Drawing_00-L-101-R1 with 593-2024B_Addendum_7_Drawing_00-L-101_IFC–R2

593-2024B_Addendum_7_Drawing_00-L-102-R1 with 593-2024B_Addendum_7_Drawing_00-L-102_IFC–R2

593-2024B_Addendum_7_Drawing_00-L-103-R1 with 593-2024B_Addendum_7_Drawing_00-L-103_IFC–R2

593-2024B_Addendum_7_Drawing_00-L-104-R1 with 593-2024B_Addendum_7_Drawing_00-L-104_IFC–R2

593-2024B_Addendum_7_Drawing_00-L-201-R1 with 593-2024B_Addendum_7_Drawing_00-L-201_IFC–R2

593-2024B_Addendum_7_Drawing_00-L-501-R1 with 593-2024B_Addendum_7_Drawing_00-L-501_IFC–R2

Add: 593-2024B_Addendum_7_Drawing_00-L-105-R0

**Security**

The following Security drawings are to be replaced and are included in PDF file 593-2024B_Addendum_7_Drawing_Secuirty_IFC-R2:

Replace: 593-2024B_Drawing_TY002_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY002_IFC–R2

593-2024B_Drawing_TY003_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY003_IFC–R2

593-2024B_Drawing_TY100_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY100_IFC–R2

593-2024B_Drawing_TY300_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY300_IFC–R2

593-2024B_Drawing_TY301_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY301_IFC–R2

593-2024B_Drawing_TY302_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY302_IFC–R2

593-2024B_Drawing_TY310_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY310_IFC–R2

593-2024B_Drawing_TY403_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY403_IFC–R2

593-2024B_Drawing_TY404_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY404_IFC–R2

593-2024B_Drawing_TY502_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY502_IFC–R2

593-2024B_Drawing_TY503_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY503_IFC–R2

593-2024B_Drawing_TY601_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY601_IFC–R2

593-2024B_Drawing_TY602_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY602_IFC–R2

593-2024B_Drawing_TY603_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY603_IFC–R2

593-2024B_Drawing_TY604_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY604_IFC–R2

593-2024B_Drawing_TY605_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY605_IFC–R2

593-2024B_Drawing_TY710_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY710_IFC–R2

593-2024B_Drawing_TY711_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY711_IFC–R2

593-2024B_Drawing_TY712_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY712_IFC–R2

593-2024B_Drawing_TY714_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY714_IFC–R2

593-2024B_Drawing_TY715_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY715_IFC–R2

593-2024B_Drawing_TY716_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY716_IFC–R2

593-2024B_Drawing_TY718_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY718_IFC–R2

593-2024B_Drawing_TY719_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY719_IFC–R2

593-2024B_Drawing_TY720_IFC-R1 with 593-2024B_Addendum_7_Drawing_TY720_IFC–R2

Add: 593-2024B_Addendum_7_Drawing_TY606-R0

## NMS SPECIFICATIONS

Section 01 11 00 Summary of Work

Revise: 1.12 to read:

**.1 Surveyor's Qualifications**

**.1 Land Surveyor Qualifications:**

**1. A Manitoba Land Surveyor (MLS) who is licensed to practice in the jurisdiction where project is located and who is experienced in providing land-surveying services of the type indicated.**

**.2 Contractor's survey staff:**

**.1 Contractor's survey staff shall have minimum 5 years' experience working on size and type of projects similar to this Contract.**

**.2 Submit letter to prove Contractor's survey staff experience in accordance with Section 01 33 00 – Submittal Procedures.**

**.2 Survey Services Required**

**.1 Provide the following survey services with a qualified MLS:**

**.1 Project Survey Control Monuments are indicated on the drawings. These monuments may or may not be located on the site. Establish a minimum of 3 permanent monuments on the site and 1 adjacent to the site for the control of survey works for execution of the project. Establish additional monuments where required for Contractor survey staff or machine control survey equipment. Submit description, coordinates and reference dimensions of all monuments in accordance with Section 01 33 00 – Submittal Procedures.**

**.2 Establishment of site property boundaries.**

**.3 Establish building finished floor elevation markings.**

**.4 Establish building grid lines.**

**.5 Submit building staking certificate in accordance with Section 01 33 00 – Submittal Procedures prior to commencement of building construction activities.**

**.6 On completion of building perimeter grade beams and Subsoil Drainage Pump Station, prepare a certified survey showing dimensions, locations, angles, setbacks and elevations of the building construction.**

**.2 The remainder of survey services shall be provided by the Contractor's survey staff and shall include:**

**.1 Survey layout services for all portions of the work not requiring layout by an MLS.**

**.2 Regular control surveys of all monuments to verify monuments have not been damaged or moved. Where a monument is damaged or suspected to have moved from data collected during regular control surveys, the monument(s) shall be tagged "Not for Use" and shall be replaced by an MLS.**

**.3 Quality control surveys to confirm the correct placement of all work.**

**.4 Quantity surveys for all unit price works. These surveys must be completed as the work progresses and submitted to the Contract Administrator on a monthly basis corresponding with Contractor progress estimate.**

**.5 Record surveys.**

**.6 Note that where City of Winnipeg Standard Construction Specification state survey layout services being provided by the Contract Administrator, these clauses are overridden by the requirements stated herein, except as noted below:**

**1. Survey layout services for works within the Oak Point Highway and Hyde Avenue right of ways will be provided by the Contract Administrator as indicated in City of Winnipeg Standard Construction Specifications.**

**.3 Protection Requirements**

**.1 Provide protection around all monuments at all times. Replace monuments damaged or covered by construction operations and re-submit data to the Contract Administrator and to all Subcontractors requiring access.**

**.2 Protect stakes and marks during the course of construction. Replace damaged stakes or marks prior to continuation of construction.**

**.4 Data submission requirements for quantity measurement submissions**

**.1 All data submissions for surveys for quantity measurement submissions shall be submitted in digital format. Data shall be submitted in .csv format and in AutoCAD .dwg format. Coordinate data files shall be in the format of Northing, Easting, Elevation, first level descriptor, second level descriptor, date, additional data. Coordinate system shall match the civil construction drawings. An optional point numbering field may precede the cartesian coordinate fields. Numeric, alpha-numeric, or alpha abbreviations or**

**codes may be used for first and second level descriptors provided a reference key is submitted and the codes are consistent throughout the project. Data submitted that does not meet the specification will be rejected and must be re-submitted. No claims will be entertained for delayed progress estimate payment due to data submission which do not meet this specification.**

**.2 The submissions must clearly indicate the following information for road or earthworks:**

**.1 Surface which is represented by the survey data**

**.2 Whether the surface is at final lift, or an interim lift,**

**.3 The date the data was collected,**

**.4 Whether the data point represents merely a point on the surface or whether the point is at the edge of a work surface.**

**.3 Regardless of whether the unit price basis of payment is by weight, quantity surveys must be completed by the Contractor and submitted to the Contract Administrator for the establishment of volumes and areas of work completed.**

**.4 The submissions must clearly indicate the following information for utility construction:**

.1 **Date of survey.**

.2 **Utility being surveyed.**

.3 **Notation to whether the data point** represents an interim completion distance along the utility, or the termination point of the utility.

**.5 Additional Requirements:**

**.1 Take site dimensions of completed work before installation of work to be incorporated commences.**

**.2 Before commencing installation of work, verify that its layout is accurately in accordance with intent of Drawings, and that positions, levels, and clearances to adjacent work are maintained.**

**.3 Before commencing work, verify that all clearances required by authorities having jurisdiction can be maintained.**

**.4 If work is installed in wrong location, rectify it before construction continues.**

**.5 Where dimensions are not available before fabrication commences, the dimensions required shall be agreed upon between the Subcontractors concerned.**

**.6 All measurements shall be metric.**

~~1. The Contractor shall obtain the services of a Manitoba Land Surveyor (Contractor's Land Surveyor) to provide property pins and On-Site layout. Submit land survey in accordance with Section 01 33 00 – Submittal Procedures. Submit the land survey submittal prior to the construction activity commencing On-Site.~~

~~2. Contractor's Land Surveyor shall supply and install fixed datum point On-Site for survey control.~~

~~3. The Contractor shall provide protection around the installed datum point at all times.~~

~~4. The fixed datum point shall be accessible to the Contractor Administrator at all times.~~

~~5. Contractor's Land Surveyor shall provide the building layout and related reference points On-Site for the Contractor's survey staff to utilize.~~

~~6. Contractor's survey staff shall have minimum 5 years experience working for the similar size and type of projects similar to this Contract.~~

~~1. Submit letter to prove Contractor's survey staff experience in accordance to Section 01 33 00 – Submittal Procedures.~~

~~7. Construction Measurements:~~

~~1. Take site dimensions of completed work before installation of work to be incorporated commences.~~
~~2. Before commencing installation of work, verify that its layout is accurately in accordance with intent of Drawings, and that positions, levels, and clearances to adjacent work are maintained.~~
~~3. Before commencing work, verify that all clearances required by authorities having jurisdiction can be maintained.~~
~~4. If work is installed in wrong location, rectify it before construction continues.~~
~~5. Where dimensions are not available before fabrication commences, the dimensions required shall be agreed upon between the trades concerned.~~
~~6. All measurements shall be metric.~~

Replace: 593-2024B _NMS_Section_01 23 00 – Alternatives with
593-2024B_Addendum_7_NMS_01 23 00 01– Alternatives-R1

Section 01 32 16 Construction Progress Schedule

Delete: 1.14.3.2.2

Section 01 40 00 Quality Requirements

Delete: 1.4.1.5

Section 01 77 19 Closeout Requirements

Add: 1.3.1.6 Plant and Equipment Assets List:

.1 Provide a list of all equipment installed indicating a unique label tag and numbering, as per the example shown in the excerpt Section "01 78 00.01 - Plant and Equipment Assets (Example).PDF" extracted from the excel file provided by Winnipeg Transit. The live document excel sheet will be provided along with the contract documents after the award. The information that must be listed out is including but not limited to the following:

.1 Installed location.

.2 Purpose of use and function.

.3 Product model name, serial number and make.

.4 Tag number.

.5 Received and commission date.

Section 01 78 00 Closeout Submittals

Add: 1.3.16 Plant and Equipment Assets List

.1 Provide the list to indicate all tagged and labeled equipment that is installed in accordance to Section 01 77 19.

Add: Section 07 13 52 - Bituminous Sheet Waterproofing

Delete: Section 07 14 13 - Hot Applied Rubberized Waterproofing

Section 07 21 00 Thermal Insulation

Add: 2.1.1.1.3 SOPRA-XPS 30 by SOPREMA

Add: 2.2.7.1.3 ALSAN FOAM UNI W by SOPREMA

Add: Section 07 26 16 – Below Grade Vapour Retarders

Section 07 27 13 Self Adhered Air and Vapour Barrier

Add: 1.11 THIRD PARTY INSPECTION

.1 Hire a third-party independent inspection agency for this project to provide inspection services and verify conformance of insulation material and installation to specified requirements.

.2 Notify Inspection Company, manufacturer and Contract Administrator 72 hours in advance of commencing installation. Inspection Company will:

.1 Ensure the installation of insulation is provided as set out in this Contract.

.2 Carry out full and complete inspections while the work is in progress, at completion of the installation.

.3 Inspect and review materials and workmanship including storage, handling and protection. Advise the Contract Administrator of inspections.

.4 Ensure ambient temperatures, humidity, wind velocity during application is following to manufacturer requirement.

.5 Submit daily inspection report within 3 business day to Contract Administrator review.

.3 Inspection to be provided by the appointed inspection agency.

Section 07 46 19 Sheet Metal Cladding

Revise: 1.5.1.1 to read: Manufacturer and tradesmen executing the work of this Section shall have had a minimum ~~five (5)~~ **ten (10)** years continuous ~~Canadian~~ experience in successful manufacture and installation of work of type and quality shown and specified. Submit proof of experience upon Contract Administrator's request.

Add: 1.12 SAMPLE INSTALLATIONS

.1 Construct on the Project, a typical sample installation of cladding, including flashing, trims, girts, brackets, fasteners, insulation, sheathing board and sealants, for review before proceeding with the remainder of the installations.

.2 Adjust sample installations as required to gain acceptance. Accepted work may form a part of the final installation.

.3 All work shall match accepted sample installations.

Add: 1.13 THIRD PARTY INSPECTION

.1 Hire a third-party independent inspection agency for this project to provide inspection services and verify conformance of insulation material and installation to specified requirements.

.2 Notify Inspection Company, manufacturer and Contract Administrator 72 hours in advance of commencing installation. Inspection Company will:

.1 Ensure the installation of insulation is provided as set out in this Contract.

.2 Carry out full and complete inspections while the work is in progress, at completion of the installation.

.3 Inspect and review materials and workmanship including storage, handling and protection. Advise the Contract Administrator of inspections.

.4 Ensure ambient temperatures, humidity, wind velocity during application is following to manufacturer requirement.

.5 Submit daily inspection report within 3 business day to Contract Administrator review.

.3 Inspection to be provided by the appointed inspection agency.

Section 07 52 16 SBS Modified Bituminous Membrane Roofing

Revise: 2.3.1.3 to read: Cap Sheet Membrane and Flashing: CSA A123.23 Type C, Grade 1, asphalt and polymer modifiers of styrene-butadiene-styrene (SBS) type, heavy duty composite glass and polyester reinforcement; upper surface finished with a factory applied ~~white~~ granular finish ~~providing a minimum SRI +/- 85~~ with the following characteristics:

Revise: 2.3.1.3.3 to read: Top Surface: ~~Highly reflective white granules~~ **Granules.**

Section 07 71 00 Roofing Specialties

Add: 2.5 CROSS OVER STAIRS

.1 6061-T6 mill finish aluminium cross-over stair, size as indicated, with adjustable height hollow aluminum, 51 mm (2”) diameter urethane insulated supports and hardware for fastening to structural roof deck; 95 mm x 95 mm x 6 mm (3-3/4” x 3-3/4” x 1/4”) aluminium stringers and platform support beams; 3 mm x 38 mm x 229 mm x 915 mm (1/8” x 1-1/2” x 9” x 3’-0”) aluminium treads screwed to 38 mm x 38 mm x 12 mm (1-1/2” x 1-1/2” x 1/2”) aluminium stringer angle supports and platform support beams; 38 mm (1-1/2”) diameter, Schedule 40 pipe rail; 0.8 mm (0.031”) type 305 stainless steel flashing to CSAB272-93, with EPDM Triple Pressure Grommet Seal and EPDM Base Seal. ARS680 by Thaler.

Section 07 92 00 Joint Sealants

Add: 1.10 THIRD PARTY INSPECTION

.1 Hire a third-party independent inspection agency for this project to provide inspection services and verify conformance of insulation material and installation to specified requirements.

.2 Notify Inspection Company, manufacturer and Contract Administrator 72 hours in advance of commencing installation. Inspection Company will:

.1 Ensure the installation of insulation is provided as set out in this Contract.

.2 Carry out full and complete inspections while the work is in progress, at completion of the installation.

.3 Inspect and review materials and workmanship including storage, handling and protection. Advise the Contract Administrator of inspections.

.4 Ensure ambient temperatures, humidity, wind velocity during application is following to manufacturer requirement.

.5 Submit daily inspection report within 3 business day to Contract Administrator review.

.3 Inspection to be provided by the appointed inspection agency.

Section 07 95 13 Expansion Joint Assemblies

Add: 1.8 QUALITY ASSURANCE

.1 Manufacturer and tradesmen executing the work of this Section shall have had a minimum 10 years continuous experience in successful manufacture and installation of work of type and quality shown and specified. Submit proof of experience upon Contract Administrator’s request.

Add: 1.9 THIRD PARTY INSPECTION

.1 Hire a third-party independent inspection agency for this project to provide inspection services and verify conformance of insulation material and installation to specified requirements.

.2 Notify Inspection Company, manufacturer and Contract Administrator 72 hours in advance of commencing installation. Inspection Company will:

.1 Ensure the installation of insulation is provided as set out in this Contract.

.2 Carry out full and complete inspections while the work is in progress, at completion of the installation.

.3 Inspect and review materials and workmanship including storage, handling and protection. Advise the Contract Administrator of inspections.

.4 Ensure ambient temperatures, humidity, wind velocity during application is following to manufacturer requirement.

.5 Submit daily inspection report within 3 business day to Contract Administrator review.

.3 Inspection to be provided by the appointed inspection agency.

Section 08 11 13 Steel Doors and Frames

Delete: 2.1.2.4

Delete: 2.1.2.5

Delete: 2.1.2.6

Revise: 2.3.2 to read: Cut mitres and joints accurately and weld ~~continuously~~ long edge on inside of frame profile.

Revise: 2.4.2 to read: Fabricate work with longitudinal edges seamless, ~~continuously welded,~~ welds ground smooth, filled and sanded flush.

Delete: 2.4.5.2

Revise: 2.4.6 to read: Fabricate work with top and bottom full width steel channels, ~~continuously welded,~~ welds ground smooth, filled and sanded flush. Provide flush steel top edge on exterior assemblies.

Delete: 2.6

Section 08 33 53 High Speed Rapid Rolling Doors

Add: 2.1.2 Other acceptable manufacturers:

.1 TNR SG5000

.2 Wayne Dalton model 888

Add: Section 08 35 16 - Side Folding Grilles

Section 08 36 16 Sectional Overhead Doors

Add: 2.1.2.3 Wallace & Wallace

Section 08 44 13 Aluminum Curtain Walls and Entrances

Add: 1.16 SAMPLE INSTALLATIONS

.1 Construct on the Project, a typical sample installation of cladding, including flashing, trims, girts, brackets, fasteners, insulation, sheathing board and sealants, for review before proceeding with the remainder of the installations.

.2 Adjust sample installations as required to gain acceptance. Accepted work may form a part of the final installation.

.3 All work shall match accepted sample installations.

Add: 1.17 THIRD PARTY INSPECTION

.1 Hire a third-party independent inspection agency for this project to provide inspection services and verify conformance of insulation material and installation to specified requirements.

.2 Notify Inspection Company, manufacturer and Contract Administrator 72 hours in advance of commencing installation. Inspection Company will:

.1 Ensure the installation of insulation is provided as set out in this Contract.

.2 Carry out full and complete inspections while the work is in progress, at completion of the installation.

.3 Inspect and review materials and workmanship including storage, handling and protection. Advise the Contract Administrator of inspections.

.4 Ensure ambient temperatures, humidity, wind velocity during application is following to manufacturer requirement.

.5 Submit daily inspection report within 3 business day to Contract Administrator review.

.3 Inspection to be provided by the appointed inspection agency.

Section 08 71 00 Door Hardware

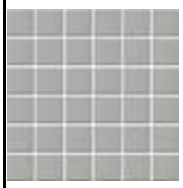
Revise: 3.6.1 to read: ~~Refer to attached Hardware Schedule to be provided by the hardware consultant at a later date.~~ **Refer to attached Hardware Schedule**

Add: 3.6.2: 593-2024B_Addendum_7_Section_08_71_00_Door_Hardware_Schedule-R0

Section 09 06 00 Finish Schedule

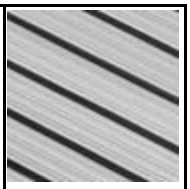
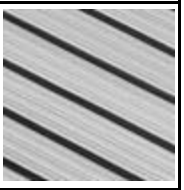
Replace: 1.3 Finishes Schedule to read:

| Section | Code | Item/ Location | Description | Sample |
|---|---|---|---|---|
| 06 20 00 | PLAM-1 | Plastic Laminate Kitchenettes, Lockers, Cabinets | Manufacturer: Formica<br>Product: HGP Laminate<br>Color: Natural Ash, Woodbrush<br>Texture: Matte<br>Thickness: 0.9 mm |  |
| 06 20 00 | PLAM-2 | Plastic Laminate Kitchenettes, Lockers | Manufacturer: Formica<br>Product: HGP Laminate<br>Color: Folkstone<br>Texture: Matte<br>Thickness: 0.9 mm |  |
| 06 20 00 | PLAM-3 | Plastic Laminate BOH Cabinetry Interiors | Manufacturer: Formica<br>Product: HGP Laminate<br>Color: Dover White #7197-58<br>Texture: Matte Finish<br>Thickness: 0.9 mm |  |
| 06 20 00 | PLAM-4 | Plastic Laminate Various countertops | Manufacturer: Formica<br>Product: CC Laminate<br>Color: Surf<br>Texture: Matte<br>Thickness: 0.9 mm |  |
| 06 20 00 | SST | Stainless Stee Sheet for Cabinet Base | Material: Stainless Steel Type 304<br>Finish: AISI No. 4<br>Thickness |  |
| 06 61 16 | SSF-1 | Solid Surfacing Kitchen Areas | Manufacturer: Caesarstone<br>Product: Quartz Stone<br>Color: 405 Midday<br>Size: 3050 mm x 1435 mm |  |

| | | | | |
|---|---|---|---|---|
| | | | Thickness: 20 mm | |
| 06 61 16 | SSF-2 | Solid Surfacing<br>Washrooms | Manufacturer: Dupont<br>Product: Corian<br>Color: Arrowroot<br>Thickness: 20mm |  |
| 07 46 19 | MC-1 | Sheet Metal Cladding | Manufacturer: Vicwest<br>Product: AD300R<br>Color: Cambridge White<br>Thickness: 22 gauge<br>Install Pattern: Vertical |  |
| 07 46 19 | MC-2 | Sheet Metal Cladding | Manufacturer: Vicwest<br>Product: AD300<br>Color: White White<br>Thickness: 22 gauge<br>Install Pattern: Horizontal |  |
| 07 46 19 | MC-3 | Sheet Metal Cladding | Manufacturer: Vicwest<br>Product: AD200<br>Color: White White<br>Thickness: 22 gauge<br>Install Pattern: Horizontal |  |
| 09 30 00 | PCT-1 | Porcelain Tile<br>Washroom floor | Supplier: Centura Tile<br>Product: New Avenue<br>Size: 300mm x 600mm<br>Color: Ash<br>Texture: Matte<br>Thickness: 9 mm |  |
| 09 30 00 | PCT-2 | Porcelain Tile<br>Washroom wall | Supplier: Centura Tile<br>Product: New Avenue<br>Size: 300mm x 600mm<br>Color: White<br>Texture: Matte<br>Thickness: 9 mm |  |
| 09 30 00 | PCT-3 | Mosaic Tile<br>Shower Stall Floor | Supplier: Centura Tile<br>Product: Classic/ Techno<br>Size: 50mm x 50mm<br>(300mm x 300mm sheet)<br>Color: Stone<br>Texture: Glazed<br>Thickness: 6 mm |  |
| 09 51 13 | AT-1 | Acoustic Ceiling Tile<br>Offices | Manufacturer: CGC<br>Product: Mars Acoustical Ceiling Panels<br>Profile: Square edge<br>Texture: Fine Texture<br>Color: White<br>Size: 610mm x 1220mm x 19mm |  |
| 09 51 13 | AT-2 | Acoustic Ceiling Tile<br>High Acoustical Rating<br>Offices | Manufacturer: CGC<br>Product: Mars High NRC/ CAC Panel<br>Profile: Square edge<br>Texture: Fine Texture<br>Color: White<br>Size: 610mm x 1220mm x 19mm |  |
| 09 54 23 | LC-1 | Linear Metal Ceiling<br>Exterior soffit | Manufacturer: CGC<br>Product: Paraline Plus Linear<br>Color: Timbre – Golden Glow Oak<br>Profile Size: 4198<br>178mm x 25mm (7”x 1”) high |  |

| | | | | |
|---|---|---|---|---|
| 09 54 23 | LC-2 | Linear Metal Ceiling<br>Break room and Info centre | Manufacturer: CGC<br>Product: Paraline Plus Linear<br>Perforation: 5% Open, 45° circle, CD06305<br>Color: Timbre – Golden Glow Oak<br>Acoustic: 4198<br>Size: Acousticbond backing felt 178mm x 25mm (7”x 1”) high |  |
| 09 65 00 | VCT | Vinyl Composite Tile | Manufacturer: Tarkett<br>Product: VCT II<br>Color: 557 Shooting Star<br>Size: 305mm x 305mm x 3mm |  |
| 09 65 00 | LVT-1 | Luxury Vinyl Tile | Manufacturer: Armstrong<br>Product: LVT-Natural Creations<br>Color: NA226 Sand Dunes<br>Size: 152.4mmx914.4mmx3.2mm |  |
| 09 65 00 | VSDT | Vinyl Static Dissipative Tile | Manufacturer: Tarkett<br>Product: iQ Granit SD Tile<br>Color: Granit Grey 0948<br>Size: 610mm x 610mm x 2mm |  |
| 09 65 00 | RBT | Rubber Tile | Manufacturer: Tarkett<br>Product: Johnsonite Mesto Configuration<br>Color: PS3 Noble Knight<br>Size: 610mm x 610mm x 3mm |  |
| 09 65 00 | RVB-1 | Resilient Vinyl Base<br>VCT and VSDT | Manufacturer: Tarkett<br>Product: Johnsonite Traditional Vinyl 1/8”<br>Color: TA5 Colcolonial Grey<br>Size: 150mm x 3mm with toe cove |  |
| 09 65 00 | RBB-1 | Rubber Base<br>for RBT | Manufacturer: Tarkett<br>Product: Johnsonite Thermoset Rubber<br>Color: TA5 Colonial Grey<br>Size: 150mm x 3mm with toe cove |  |
| 09 65 00 | RBB-2 | Resilient Rubber Base<br>for CPT | Manufacturer: Tarkett<br>Product: Johnsonite Thermoset Rubber<br>Color: VL4 Cool Metal<br>Size: 100mm x 3mm toeless |  |
| 09 68 13 | CPT-1 | Carpet Tile<br>Offices/**Training Room** | Manufacturer: Interface<br>Product: Open Air 404 Stria<br>Color: 103276 Iron<br>Construction: Tufted Textured Loop<br>Size: 500mm x 500mm<br>Thickness: 2.1mm |  |
| 09 68 13 | CPT-2 | Carpet Tile<br>Quiet room | Manufacturer: Interface<br>Product: Open Air 404 Stria<br>Color: 10328 Flannel<br>Construction: Tufted Textured Loop<br>Size: 500mm x 500mm<br>Thickness: 2.1mm |  |
| 09 90 00 | PT-1 | Paint<br>General Wall Paint,<br>Office walls | Manufacturer: Benjamine Moore<br>Product: Aura<br>Color: ~~Rodeo 1534~~ **Calm 2111-70**<br>LRV index: LRV59.84 |  |

| | | | | |
|---|---|---|---|---|
| | | | Texture: Egg Shell | |
| 09 90 00 | PT-2 | Paint<br>Accent Paint<br>Quiet Room, TV Room Offices | Manufacturer: Benjamine Moore<br>Product: Aura<br>Color: ~~Cement Gray 2112-~~ **60Cement Gray 2112-60**<br>LRV index: LRV 59.96<br>Texture: Egg Shell | |
| 09 90 00 | PT-3 | Paint<br>Door, frame Paint | Manufacturer: **Benjamine Moore**<br>Product: **Aura**<br>Color: **Stormy Monday**<br>LRV index: **40.54**<br>Texture: **Egg Shell** | |
| 09 90 00 | PT-4 | Paint<br>Drywall ceiling | Manufacturer: Benjamine Moore<br>Product: Aura<br>Color: Chantilly Lace 2121-70<br>LRV index: LRV 90.04<br>Texture: Flat | |
| 09 90 00 | PT-5 | Paint<br>Exposed ceiling | Manufacturer: **Sherwin Williams**<br>Product: **Pro Industrial Waterborne Acrylic Dryfall**<br>Color: **9542 Natural White**<br>LRV index: **LRV**<br>Texture: **Satin** | |
| 10 21 33 | URP-1 | Urinal Partition | Manufacturer: ASI Global Partitions<br>Product: Black Core Phenolic<br>Color: Graphite 2150 | |
| 10 51 13 | ML-1 | Metal Locker | Manufacturer: ASI Storage Solutions<br>Product: Traditional Collection<br>Configuration Single Tier<br>Color: White #29 | |
| 10 51 13 | ML-2 | Metal Locker | Manufacturer: ASI Storage Solutions<br>Product: Traditional Collection<br>Configuration Double Tier<br>Color: White #29 | |
| 10 51 13 | BN-1 | Locker Room Bench | Manufacturer: ASI Storage Solution<br>Products Bench Tops & Pedestals<br>Bench Top: Black Core Phenolic White Ash 1841<br>Pedestal: Stainless Steel Trapezoidal Style | <br>  |
| 12 24 13 | RS-1 | Roller Shade | Manufacturer: MechoShade<br>Product: EcoVeil 1550 Series<br>Colour: Oyster 0706 | |

| | | | | |
|---|---|---|---|---|
| 12 48 16 | FGR-1 | Foot Grille<br>(with drain pan) | Manufacturer: K.N. Crowder<br>Products FG-5<br>Material: Extruded Aluminium<br>Texture: Serrated<br>Finish: Clear Anodized |  |
| 12 48 16 | FGR-2 | Foot Grille<br>(no drain pan) | Manufacturer: K.N. Crowder<br>Products FG-5<br>Material: Extruded Aluminium<br>Texture: Serrated<br>Finish: Clear Anodized |  |
| 12 48 16 | MWB | Metal Wall Base | Manufacturer: Schlüter<br>Products DesignBase-SL-E<br>Material: Stainless steel<br>Size: 110 mm high |  |

Section 09 65 00 Resilient Flooring and Accessories

Revise: 1.6.2 to read: Resilient Flooring Installer: Use an installer who is competent in heat welding and have a minimum of ~~five (5)~~ **ten (10)** years documented experience in the installation of resilient sheet flooring and seams in accordance with manufacturer's training or certification program.

Add: 1.6.3 Manufacturer and tradesmen executing the work of this Section shall have had a minimum ten (10) years continuous experience in successful manufacture and installation of work of type and quality shown and specified. Submit proof of experience upon Contract Administrator's request.

Add: 2.2.4 Luxury Vinyl Tile (LVT): ASTM F1700, Class 3, Type B, embossed surface, meet requirements for size, squareness, thickness, thickness of wear layer, residual indentation, resistance to chemicals, resistance to light and resistance to heat. Natural Creations Luxury Flooring by Armstrong Flooring Inc.

.1 Refer to Finishes Schedule for size and colour requirement.

Add: 2.3.6 Trims:

.1 Sloped Edge Strips: Roll formed stainless steel edge strips, height as required to suit resilient floor material installation; with integral anchoring leg for setting the strip into the setting material and sloped transition:

.2 Basis-of-Design Materials: Vinpro U by Schlüter.

Add: 3.3.10 Where indicated on Drawings or as required, install continuous single piece metal edge trims centered under doors in closed position and other locations where resilient flooring meets other floor finishes.

Section 09 68 13 Tile Carpeting

Revise: 1.5.2 to read: Installer: Trained and approved by the manufacturer and having a minimum ~~three (3)~~ **ten (10)** years experience in the installation of the work described in this Section and can show evidence of satisfactory completion of projects of similar size, scope and type. If requested, provide letter of certification from manufacturer stating that installer is certified applicator of its products, and is familiar with proper procedures and installation requirements required by the manufacturer.

Add: 1.5.8 Manufacturer and tradesmen executing the work of this Section shall have had a minimum ten (10) years continuous experience in successful manufacture and installation

of work of type and quality shown and specified. Submit proof of experience upon Contract Administrator's request.

Delete: 2.3.2

Add: 2.3.4 Trims:

.1 Sloped Edge Strips: Roll formed stainless steel edge strips, height as required to suit resilient floor material installation; with integral anchoring leg for setting the strip into the setting material and sloped transition:

.1 Basis-of-Design Materials: Vinpro U by Schlüter.

Add: 3.3.8 Where indicated on Drawings or as required, install continuous single piece metal edge trims centred under doors in closed position and other locations where tile carpet meets other floor finishes.

Add: Section 10 14 00 – Signage

Delete: Section 10 14 53 - Traffic Signage

Section 10 28 13 Washroom and Custodial Accessories

Replace: Washroom and Custodial Accessory Schedule in sub-section 3.5 to read:

| Code | Description | Model |
|---|---|---|
| CH | Coat Hook – Collapsible:<br>Type 304 satin finished stainless steel hook and plate. 108 mm x 108 mm x 57 mm. Hook is tensioned to release down when overloaded beyond 16 kg (35 lb) limit. | 123 by ASI<br>B-983 by Bobrick |
| SND | Sanitary Napkin Disposal:<br>Surface mounted, concealed fastening, self closing disposal opening with leak proof plastic receptacle and 10 disposable liners for initial stocking purposes for each unit. | 0852 by ASI<br>B-270 by Bobrick<br>622 by Frost |
| GB1 | Grab Bar – 765 mm long:<br>1.214mm (0.048") thickness; 765mm (30") long x 38mm (1-1/4") diameter, straight, stainless steel, slip resistant grip, concealed mounting, cap secured with vandal resistant set screws. | 3801-30 by ASI<br>B-6806.99 x 30 by Bobrick |
| GB3 | Grab Bar – L (type 1):<br>"L"-shape grab bar, 760mm (30") long x 760mm (30") high 38mm (1-1/2") diameter, stainless steel, slip resistant grip, concealed mounting, cap secured with vandal resistant set screws. | Type 04 by ASI<br>B-6898.99 by Bobrick |
| GB4 | Toilet Backrest<br>32mm diameter, 1.6mm wall thickness stainless steel tube, with 250mm x 100mm x 13mm thick plastic laminated backrest. | 1028 by Frost Products |
| GB5 | Grab Bar –L (type 2):<br>"L"-shape grab bar, 762mm (30") long x 1016mm (40") high 32mm (1-1/4") diameter, stainless steel, slip resistant grip, concealed mounting, cap secured with vandal resistant set screws. | 1003-SP by Frost Products<br>B-58546.99 by Bobrick |
| GB6 | Grab Bar – 1067mm:<br>Vertical mount, 1.214mm (0.048") thickness; 1067mm (42") long x 38mm (1-1/4") diameter, straight, stainless steel, slip resistant grip, concealed mounting, cap secured with vandal resistant set screws. | 3801-42 by ASI<br>B-6806.99 x 42 by Bobrick |

| Code | Description | Model |
|---|---|---|
| RPTD | Paper Towel Dispenser and Disposal:<br>Surface mounted, handicap accessible, capable of holding 600 C-fold or 800 multi-fold or 1100 single-fold paper towels, with leak proof waste container. | 64676-9 by ASI<br>B-380349 by Bobrick<br>400C by Frost |
| MR1 | Mirror (Flat):<br>Framed, 910mm (36") high x 460mm (18") wide, fixed installation, mounted 1000mm (40") to bottom of frame. | 0600-1836 by ASI<br>B-290 x 1836 by Bobrick |
| MR2 | Mirror (Tilt):<br>Framed, 910mm (36") high x 460mm (18") wide, fixed tilt installation for barrier free access, mounted 1000mm (40") to bottom of frame. | 0535-1836 by ASI<br>B-293 x 1836 by Bobrick |
| TPD | Toilet Tissue Dispenser:<br>Double roll, surface mounted, tissue dispenser with concealed mounting, stainless steel construction, bright polished finish with theft resistant spindles. | 7305-2B-R009 by ASI<br>B-686-60 by Bobrick |
| SD | Wall-Mounted Soap Dispenser:<br>Heavy-duty all-purpose valve, wall-mounted stainless steel soap dispenser, 1.2L capacity with visible viewing window: | 0347 by ASI<br>B-2111 by Bobrick |
| JS | Janitor's Shelf with Mop and Broom Holders and Hooks:<br>864mm (34") long x 330mm (13") high x 200mm (8") deep. Shelf constructed of minimum 18-8 stainless steel, type 304, 18 gauge. Utility hooks fabricated of 11 gauge stainless steel, and mop holders fabricated of cadmium plated steel. Pivoting, spring-loaded serrated rubber cam shall hold round handles of 22mm to 32mm (7/8" to 1-1/4") diameter | 1308-3 by ASI<br>B-239 x 34 by Bobrick |
| SHC | Shower Curtain:<br>Opaque, matte white vinyl, 0.2mm (.008") thick, containing antibacterial and flame retardant agents. Complete with grommets every 150mm (6"), and hemmed top, bottom and sides. | 1200-V by ASI<br>B-204-2 by Bobrick |
| SHCH | Shower Curtain Hook:<br>Fabricated of type 304 stainless steel alloy 18-8, solid formed wire 2.5mm (0.98") in diameter. Hook shall accommodate 25mm to 32mm (1" to 1-1/4") diameter curtain rods. | 1200-SHU by ASI<br>B-204-1 by Bobrick |
| SHCR | Shower Curtain Rod:<br>Extra-heavy duty rod, 32mm (1-1/4") diameter fabricated of alloy 18-8 stainless steel, type 304, 18 gauge. Flanges fabricated from 20 gauge stainless steel. Satin Finish. Length: As determined on the Drawings. | 1204 by ASI<br>B-6047 by Bobrick |
| SH | Recessed Soap Holder:<br>Type 304 stainless steel, matte polished finish. Mounting clamp for stud walls. Unit 185mm x 125mm. Rough Wall Opening: 150mm x 100mm x 100mm high. | 0401 by ASI<br>B-4380 by Bobrick<br>1132HD by Frost Products |
| SHS | Shower Seat:<br>Constructed of durable, water-resistant, ivory colored, 5⁄16" (8mm) thick solid phenolic. Frame and mounting bracket are Type 304 stainless steel and self-locking mechanism. Supports up to 500 lbs (227 kg) when properly installed. Seat 22" (560mm) wide, projects 15 13⁄16" (400mm) from wall. | 8203 by ASI<br>B-5192 by Bobrick |
| ADCT | Adult Change Table:<br>Wall mounted, electrically powered height adjustable from 300 mm to 1000 mm (12" to 39") height adjustment, weight capacity of 200 kg (441 lb), upwards speed 15 mm/s (0.03 mph), downwards speed 20 mm/s, wired hand control. | SCT 1000, R8593118000 by Pressalit |

| Code | Description | Model |
|---|---|---|
| PTD | Paper Towel Dispenser:<br>Surface mounted, handicap accessible, capable of holding C-fold or multi-fold paper towels, with leak proof waste container. | 0210 by ASI<br>B-9262 by Bobrick<br>107 by Frost Products |
| WR | Waste Receptacle:<br>Stainless steel satin finish receptacle holds 12 gallons of waste. Receptacle is screw mounted to wall. | 0826 by ASI<br>B-277 by Bobrick<br>326 by Frost Products |

Section 10 51 13 Metal Lockers and Benches

Revise: 2.3.3.5 to read: Tops: ~~Flat~~ **Sloped**, continuous overtop of a bank of lockers, 18 gauge**.**

Section 10 56 16 Parts Storage Tower

Revise: 2.1.1.1 to read: Basis of Design Manufacturer: SSI Schaefer, **Kardex System**, or approved equivalent.

Add: Section 10 91 13 - Miscellaneous Specialties

Section 11 11 00 Vehicle Service Equipment

Add: 1.1.1.4:

.4 Provide suitable spill kits for the following rooms:

.1 DEF Room 10-108

.2 Lube Room 30-113

Revise: 1.2 to read:

**.1 Section 09 00 00 Painting**

~~.1~~**.2** Section 20 05 29 Hangers and Supports.

**.3 Section 20 05 53 Labelling and Identification**

~~.2~~**.4** Section ~~23~~ **20** 05 93 Testing, Adjusting, and Balancing (TAB) ~~of Mechanical Systems.~~

~~.3~~**.5** Section 22 15 13 Compressed Air Systems

~~.4~~**.6** Section 23 10 05 ~~DEF and Fuel Dispensing Systems~~ **Fuel Storage, Dispensing and Management Systems.**

Add: 1.8 WARRANTY

.1 The warranty shall be in accordance with the City of Winnipeg General Conditions for Construction Contracts as posted on the City website, unless otherwise stated in this document.

Revise: 2.6.4 to read: ULC-~~S602~~ **S655** 2 HR Fire Rated.

Revise: 2.9.1.1 to read:

.1 Replaceable alkaline battery powered.

.2 Suitable for petroleum**, glycol coolants,** and synthetic liquids.

**.3 Twist close nozzle end**

~~.3~~**.4** Indoor use

Revise: 3.12 to read: ~~PAINTING~~ **LABELLING AND PAINTING.**

**.1 Refer also to:**

**.1 Section 20 05 53 Labelling and Identification**

**.2 Section 09 00 00 Painting.**

**.2 Standard Pipe Identification Wording and Colours: Identification wording and colours for pipe identification materials shall be as follows:**

| Legend | Colour | Symbol |
|---|---|---|
| **Diesel Fuel** | **Black/Yellow** | **DSL** |
| **Diesel Exhaust Fluid** | **White/Blue** | **DEF** |
| **Engine Coolant** | **White/Green** | **EC** |
| **Engine Oil** | **Black/Yellow** | **EO** |
| **Gasoline** | **White/Red** | **G** |
| **Grease** | **Black/Yellow** | **GR** |
| **Service Water** | **White/Green** | **SW** |
| **Waste Engine Coolant** | **White/Green** | **WC** |
| **Waste Engine Oil** | **Black/Yellow** | **WO** |
| **Windshield Washer Fluid** | **Black/Yellow** | **WWF** |

**.3 Along with the requirements of section 09 00 00, the vehicle services equipment piping and appurtenances located in the following areas shall be painted:**

**1 Outdoors,**

**2 Automatic Bus External Wash Bays,**

**3 Bus Undercarriage Wash Area, and**

**4 Repair Garage Manual Wash Bay.**

~~.1~~**.4** All painting performed by qualified trades.

~~.2~~**.5** Do not cover pipe identification markings until City and AHJ have inspected them.

Section 11 11 29 Transit Bus Washing Equipment

Revise: 2.1.2 to read:

.1 Wesmatic (basis of design)

.2 Interclean

**.3 NS Corporation**

~~.3~~**.4** Pseco

**.5 Ross and White**

~~.4~~**.6** or approved equal through a substitution approval request.

Revise: 2.2.2.2 to read: Complete the full washing operation and drying cycle within **approximately** 2 minutes.

Revise: 2.2.2.3 to read: Be able to wash buses at a rate of up to **12**~~8~~ buses per hour, 24 hours per day, 365 days per year.

Revise: 2.2.6 to read: The system shall be a drive-through unit for maximum efficiency with brushes and mops as required to friction wash the sides **including wheels and tires,** front and rear, and to wash the roof of the bus.

Add: 2.2.14.7.6: .6 Continuous water recirculation.

Revise: 3.1.3 to read:

**.1 Equipment manufacturer shall provide:**

**.1 Minimum 4 hrs of training for Service Lanes operators and provide training certificates upon training completion.**

**.2 A program of preventive maintenance for the system,**

**.3 A minimum of 4 separate 4 hour training periods for maintenance personnel. Provide certificates upon successful completion of training.**

**.2 Equipment manufacturer shall allow for 2 days' of site presence after Substantial Completion, by at least one technician for troubleshooting and equipment adjustment as required during the peak service lane shift.**

~~.1 Equipment manufacturer shall provide minimum 8 hrs of training for operators and provide training certificates upon training completion.~~

~~.2 Equipment manufacturer shall provide a program of preventative maintenance and provide minimum 24 hrs training for maintenance personnel.~~

Section 11 11 36.10 – Electric Vehicle Chargers

Add: 3.1.3 Locate and install EV charger cabinets as indicated on the drawings. Coordinate raceway requirements with the EV charger supplier. Where EV charger supplier dictates the use of raceways and wiring that differ from the raceways depicted on the drawings, include all costs associated with the raceways and wiring required by the EV charger supplier. Outline variances in raceways and wiring within tender documents.

Add: 3.1.4 Install chargers in accordance with manufacturer's installation instructions.

Add: 3.1.5 Install dispenser cabinets in accordance with manufacturer's installation instructions. Provide strut channel supports for the dispensers and the associated cables. Strut channel supports shall span from the garage floor to the underside of the deck. Mark out location of the dispensers, the associated strut channel supports and the protective bollards on the floor of the transit garage, and review all locations with The City of Winnipeg prior to commencing the rough-ins.

Add: 3.1.6 Unless the wiring is comprised of teck cable on cable tray, all wiring shall be installed in EMT conduits.

Add: 3.1.7 Communication wiring shall comprise of either 50/125 OM4 8-strand dielectric fiber or CAT6 23AWG CU STP pre-terminated cable, unless specified otherwise by the EV charger manufacturer.

Add: 3.1.8 Connect output terminals to dispenser unit(s), as shown on the drawings, and in accordance with EV charger manufacturer's recommendations, including: DC Charging power, AC Auxiliary output power, Communication cables (Shielded CAT6 or dielectric fiber).

Revise: 3.2.1 to read: ~~Not applicable.~~ **Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer prior to substantial performance. Clean the space prior to energizing the EV chargers to minimize filter contamination. Where EV chargers have operated for more than two months prior to the substantial completion, replace EV charger filters at the time of the substantial completion.**

Section 11 24 19 Vacuum Cleaning System

Add: 1.3 WARRANTY

.1 The warranty shall be in accordance with the City of Winnipeg General Conditions for Construction Contracts as posted on the City website, unless otherwise stated in this document.

Revise: 2.1 to read:

.1 Clean Air Technologies Inc., Eurovac

**.2 Durovac**

**.3 NS Corporation**

Revise: 3.1.3 to read:

**.1 Equipment manufacturer shall provide:**

**.1 Minimum 4 hrs of training for Service Lanes operators and provide training certificates upon training completion.**

**.2 A program of preventive maintenance for the system,**

**.3 A minimum of 4 separate 4 hour training periods for maintenance personnel. Provide certificates upon successful completion of training.**

**.2 Equipment manufacturer shall allow for 2 days' of site presence after Substantial Completion, by at least one technician for troubleshooting and equipment adjustment as required during the peak service lane shift.**

~~.1 Equipment manufacturer shall provide minimum 4 hrs of training for Service Lanes operators and provide training certificates upon training completion.~~

~~.2 Equipment manufacturer shall allow for 2 days' of site presence after Substantial Completion, by at least one technician for troubleshooting and equipent adjustment as required during the peak service lane shift.~~

~~.3 Equipment manufacturer shall provide a program of preventive maintenance for and provide minimum of 2 separate 4 hour training periods for maintenance personnel.~~

Section 11 81 33 High Pressure Washing Equipment

Revise: 1.1.1 to read:

One electrically heated, high-pressure hot water washer system**, with foaming, high pressure chemical application, and rinse capabilities.**

Revise: 1.1.2 to read:

Provide ~~cold~~ **hot** water high pressure washing system for the Interior Cleaning Bays:

**.1** Two (2) ~~cold~~ **hot** water high-pressure washer units.

.2 Fixed installation – concrete pad or wall bracket mounted

**.3 Five ceiling ~~or wall~~** mounted hose reels

.4 Wands with adjustable nozzle.

.5 Interconnecting piping as shown on the drawings

Revise: 2.2.1.6 to read:

Wash / Rinse operation **requirements** ~~selection (Repair Bay unit only)~~

**.1 Repair Bay Unit:**

**.1 Low pressure foam chemical (soap) application system**

**.2 High pressure wash (with downstream chemical injection)**

**.3 High pressure rinse cycle**

**.2 Interior Cleaning Lane units:**

**.1 Hot Water**

Section 12 48 16 Foot Grilles

Delete: 2.3.2

Replace: Section 12 59 01 - WORKSTATION SYSTEM AND FURNITURE SCHEDULE with 593-2024B_Addendum_7_Section 12 59 01 – Workstation System and Furniture Schedule-R1.

Section 20 05 00 General Mechanical Requirements

Add: 3.15.2 All equipment that require maintenance should be located in an easily accessible location, generally by personnel standing at floor level or on purpose-built platforms.

Section 20 07 00 Mechanical Insulation

Revise: 3.9.1.2 to read: Heating main air separator**, buffer tanks** – 40 mm (1.5 in.) thick

Revise: 3.10.1 to read: As an alternative for “cold” equipment such as the chilled water heat exchangers, pump casings, **buffer tanks**, etc., flexible elastomeric insulation with a thickness to give an equivalent insulating value to that of the fibreglass insulation, secured in place and sealed in accordance with the manufacturer’s recommendations.

Section 22 11 19 Domestic Water Piping Specialties

Revise: 2.1.1 to read: Ball Valves: Lead Free Class 600, 4140 kPa (600 psi) WOG rated full port ball type valves, each complete with a forged brass or bronze body with solder ends, forged brass cap and blowout-proof stem, solid forged brass chrome plated ball, “Teflon” or “PTFE” seat, and a removable lever handle. **All shut-off valves to have lockable levers for lock-out/tag-out procedures.** Where piping is insulated provide stem extensions to clear insulation. Acceptable products are:

**.1** Kitz Corporation Code No. 859. **complete with locking handle kit**

**.2** Toyo Valve Co. Fig. 5049ALF **complete with locking handle kit.**

**.3** MAS B-4LF **complete with locking handle kit.**

**.4** Nibco #S-585-80LF (Bronze) **complete with locking handle kit.**

**.5** Watts Water Technologies (Canada), Inc. #LF6080, LFB6081-3C **complete with locking handle kit.**

Revise: 2.8.2 to read: Each unit to be supplied with 30m (100ft) synthetic rubber hose with hose stop, **screwed or quick coupling type** adaptors, stainless steel ball valve and quick connects.

Section 22 15 13 Compressed Air System

Revise: 1.1.1.9 to read: Testing, and commissioning, and submittal **and posting on site** of all required documents.

Revise: 2.4 to read:

.1 Refer to schedules on the drawings.

.2 ASME rated to minimum 1140 kPa.

.3 Welded steel construction.

.4 CRN for Province of Manitoba

**.5 Design and ASME data permanent fixed to unit.**

**.6 Provincial valid inspection certificate posted on vessel in suitable permanent metal frame.**

~~.5~~**.7** Automatic condensate drain.

~~.6~~**.8** Acceptable product:

1. Samuel Pressure Vessel Group
2. Approved equivalent.

Revise: 3.8.2 to read: Conduct tests in presence of **the** City's representative, and as required by the AHJ.

Revise: 3.8.3 to read: Give **the** City and AHJ minimum of five (5) working days notice of intention to perform pressure tests**.**

Revise: 3.8.7 to read: Insulate or conceal work after approval and certification of tests by AHJ and **the** City.

Revise: 3.8.12 to read: Provide equipment that will safely and accurately generate test pressures, under controlled conditions, and without potential for human error. Submit proposed test equipment to **the** City for approval.

Section 22 42 00 Plumbing Fixtures

Revise: 2.12 to read:

**.1 1.5 GPM HAND SHOWER, FIXED SHOWER HEAD AND VALVE TRIM FOR FLASH ROUGH VALVE WITH SLIDE-GRAB BAR: American Standard TU662SG213.002 Complete Shower Trim - Polished chrome finish, Hand shower, showerhead and valve trim, 5.7 LPM (1.5 GPM) showerhead flowrate, Flowise showerhead, 3-function hand shower with non-positive shut off (1660.766), 5.7 LPM (1.5 GPM) handshower flowrate, 59" (1500 mm) shower hose (8888.035), Metal lever handle, Pressure balance valve, Adjustable high temperature limit stop, Valve trim with metal handle and escutcheon, 914 mm (36") slide grab bar (1662.236), 2-way diverter (R422), Combination of ceramic disc mixing valve and a ceramic balancing spool in a one-piece cartridge, Washerless ceramic discs provide smooth handle movement and are unaffected by harsh water conditions, Ceramic balancing spool maintains constant output temperature in response to changes in relative hot and cold supply pressure, WaterSense® certified, ADA, ASSE 1016, ASME A112.18.1016, CSA B125.16, ASME A112.18.1, CSA B125.1** ~~American Standard 1660.637.002 Hand Shower - Hand shower, Polished chrome finish, 2.5 GPM (9.5LPM) maximum flowrate, Spray pattern adjusts from full spray to full/massage combination (1) to pulsating massage to massage/mist combination (2) to power mist, Includes check valve to prevent cross flow of hot and cold water, Easy clean spray nozzles, ASME A112.18.1, CSA 125.1~~.

~~.2 American Standard 1660236.002 Slide Bar - Standard, SLIDE BAR, Polished chrome finish, 2-1/2" wide, 600 - 899 mm (23-5/8" - 35-3/8") high, 36"~~

~~.3 American Standard 8888.037.002 Wall Supply - WALL SUPPLY, Polished~~ chrome finish, Includes check valve, 1/2" NPT female thread, 1/2" NPSM male ~~hose thread~~

~~.4 American Standard 8888.036.002 Hand Shower Holder - FIXTURE WALL BRACKET, Polished chrome finish~~

~~.5 American Standard 1660.400.002 Vacuum Breaker - Vacuum breaker, Polished chrome finish for Inline with 13 mm (1/2") size, Attaches between supply outlet and personal shower hose.~~

Revise: 2.18. to read:

**.1 Murdock Mfg A172100F-UG-VR-BF12-BP8-CSC6 Drinking Fountain - Wall mounted (On wall), Surface installation, Lead Free compliant Basin material shall be 304 Stainless Steel and have an integral drain, cabinet material shall be either galvanized or galvannealed steel, Dual height drinking fountain with bottle filler and chiller, Hands-free sensor operation or pushbutton operated activation, Activated by chrome plated brass pushbutton using less than 5 pounds of force, 2 serving stations, Indoor application, Low flow flexible bubbler, Gray finish cooler with satin finish bottle filler, 1.125 LPM (0.3 GPM) flowrate, Laminar flow provides clean fill with minimal splash, Bottle filler with sensor operation, 3.79 LPM (1 GPM) fill rate, Antimicrobial, 100 mesh inlet strainer, Back Panel, stainless steel, Concealed support carrier, 138 - 734 kPa (20 - 105 PSI) bubbler water-pressure range, Codes and compliances:, Fixture meets ADA, ADA standing person, and ADA child requirements when mounted appropriately, ANSI A117.1 Public law 111-380, CHSC 116785, NSF/ANSI 61, Section 9, cUPC Green certified.**

**.2 Watts CA-431-1 Carrier - Lavatory/Water Cooler carrier, Floor mounted plate type lavatory/Water Cooler carrier, Wall Plate, integral welded feet, Universal steel hangar support plate, Heavy gauge steel offset uprights, Plated hardware.**

~~.1 Haws model 1011 ADA Dual Vandal-Resistant Drinking Fountain - Model 1011 Hi-Lo wall mounted barrier-free vandal-resistant drinking fountain shall include dual 18-gauge Type 304 Stainless Steel satin finish basins with integral swirl design, 14-gauge Type 304 Stainless Steel wall bracket, 100% lead-free waterways, vandal-resistant push-button operated stainless steel valves with front-accessible cartridge and flow adjustment, polished chrome-plated brass vandal-resistant bubbler heads with integral laminar anti-squirt flow, chrome plated brass vandal-resistant waste strainers, vandal-resistant bottom plates, stainless steel satin finish back panel, high and low fountain mounting levels, and 1-1/4″ O.D. (3.2 cm) waste pipes. (P-trap and stop require rear access)~~

~~.2 Model 6700.4 'Hi-Lo' in-wall 3/16″ thick steel pre-drilled mounting shall include the all-thread studs, nuts, and washers. For use with Haws dual bubbler fountains.~~

~~.3 Support Frame: Model 6800 In-wall floor mounted fixture support legs, welded steel 4-bolt floor flanges, and supplied with 'U' bolts and hardware.~~

~~.4 Access Panel: Model 6603, satin finish stainless steel access panel. Includes frame and screws.~~

~~.5~~**.3** McGuire LFHST01LK Stop Valves - Convertible loose key handle, Lead Free, Chrome-plated finish, 3/8" I.P.S x 3/8" O.D

~~.6~~**.4** McGuire 8872C P-Trap - Heavy cast brass, Adjustable P-Trap, 292 mm (11-1/2") distance, With cleanout plug, Steel shallow flange, Neoprene gasket, Slipnuts, 17 gauge seamless tubular wall bend, ASME A112.18.2 CSA B125.2, CSA compliantSection 21 21 21 Plumbing

Revise: 2.19 to read: ~~2.19 ACCEPTABLE MANUFACTURERS~~

**2.19 US-1: WALL-HUNG - SERVICE SINK:**

**.1 Franke Commercial WSS6713-2 Sink - Single compartment sink, 203 mm (8") centerset, Service sink, with overall dimension 508 mm (20") long, 483 mm (19") wide, 635 mm (25") high, constructed from 14 gauge Type 304 Stainless steel, Bowl dimensions are 432 mm (17") long, 406 mm (16") wide, 330 mm (13") deep, Polished to #4 satin finish, With 305 mm (12") high backsplash, Radius coved bowl corners, Less overflow, Center waste location, 89 mm (3-1/2") crumb cup strainer, Compliances and certifications: ASME A112.19.3 compliant, CSA B45.4 compliant.**

**.2 American Standard 8354112.002 Faucet - Wall-hung, Manual, Two handles, Mop sink faucet, Polished chrome finish, 152 - 254 mm (6" - 10") adjustable centerset, Brass construction, Integral check valve, Ceramic disc cartridge, no flow restrictor, 37.8 LPM (10 GPM) @20 PSI, Threaded hose end, Fixed Cast brass spout with bucket hook, 248 mm (9-3/4") spout reach, Top brace, Vandal-resistant lever handles, 13 mm (1/2") female inlet.**

Add: 2.20 ACCEPTABLE MANUFACTURERS

1. Vitreous china and enameled cast iron or steel fixtures: Zurn, Sloan, American Standard, Toto, and Kohler.
2. Stainless steel sinks: Franke, AERO, Novanni Stainless Inc., Kindred Industries "Aristaline".
3. Precast terrazzo fixtures: Acorn, Fiat Products Ltd. and Stern-Williams.
4. Water closet seats: Zurn, Bemis, Centoco, Olsonite and Beneke
5. Flush valves: Zurn, Delta Commercial, Sloan, Toto
6. Fixture carriers: Zurn, Mifab, Jay R. Smith and Watts Industries
7. Faucets: unless otherwise specified, Zurn, Delta Commercial, American Standard, Kohler and Chicago Faucet
8. Fixture trim: unless otherwise specified, McGuire, Zurn, American Standard, Kohler
9. Water mixing valves and associated trim: Powers, Zurn, Crane, Symmons, American Standard, Bradley and Kohler
10. Shower valves: American Standard, Moen, Kohler, Delta Commercial, Grohe
11. Floor drains: Watts Industries, Zurn, Mifab, Jay R. Smith
12. Emergency Fixtures: Haws, Bradley, Guardian, Hughes Safety Showers

Section 23 10 05 Fuel Storage, Dispensing and Management

Add: 1.1.3.3 Signs and labels shall meet all AHJ requirements and be the same as current City of Winnipeg labelling and identification practices provided those meet AHJ requirements.

Revise: 2.3.1.3 to read: In compliance with all applicable provisions of the CCME Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products, PN 1326, 2003 (CCME Code) as amended by, and must be eligible for permitting under, ~~Alberta~~ **Manitoba** regulations.

Revise: 2.3.1.5.2 to read: **Full length steel skid frame s**upports **for maximum weight distribution, and** suitable for direct placement on a flat concrete surface, as indicated on the Drawings.

Revise: 2.3.1.8.4 to read: **Full length steel skid frame** ~~Mounting saddles~~ **for event load distribution to concrete slab,** ~~at a minimum of two locations~~.

Revise: 2.4.4 to read:

.1 Access controlled

.2 Remote mounted, cabinet type meter and dispenser unit.

.3 Electronic metering heads, litre readout, pulser suitable for use with fuel management system.

- .1 Electronic calibration
- .2 Operating status indication.

.4 Backlight LCD readout.

.5 Product identification LED lighting

.6 Internal filtration

- .1 In-line, spin on filter
- .2 Particulate (30 micron) and water
- .3 Acceptable product:
  - .1 Cimtek Hydroglass
  - .2 Approved equivalent.

~~.7 – spin on inline.~~

~~.8~~**.7** Dispensing nozzle cradle with integrated pump actuating switch unit.

~~.9~~**.8** Padlock type nozzle/switch lock.

~~.10~~**.9** Dual hose:

- .1 Tight fill connection **suitable for City bus fleet (70 LPM).**
- .2 Automatic shut-off nozzle **(38 LPM).**

~~.11~~**.10** Designed for use with selected dispensing pumps.

~~.12~~**.11** Minimum flow rating: 70 LPM.

~~.13~~**.12** Powder coated and / or stainless steel covers, hinged access doors.

~~.14~~**.13** ULC listed for application.

~~.15~~**.14** Acceptable product:

- .1 Refer schedule on drawings
- .2 Approved equivalent.

Revise: 2.4.5 to read:

.1 Access controlled

.2 Remote mounted, cabinet type meter and dispenser unit.

.3 Electronic metering head, liter readout, pulser suitable for use with fuel management system.

- .1 Electronic calibration
- .2 Operating status indication.

.4 Backlight LCD readout.

.5 Product identification LED lighting

.6 Internal filtration

**.1** In-line, spin on filter

.2 Particulate (30 micron) and water

.3 Acceptable product:

.1 Cimtek Hydroglass

.2 Approved equivalent.

**.7 Single hose:**

**.1 Tight fill connection suitable for City bus fleet.**

~~.7 Dispensing nozzle cradle with integrated pump actuating switch unit.~~

~~.8 Padlock type nozzle/switch lock.~~

~~.9~~**.8** Designed for use with selected dispensing pumps.

~~.10~~**.9** Minimum flow rating: 70 LPM.

~~.11~~**.10** ULC listed for application.

~~.12~~**.11** Acceptable product:

Revise: 2.5.1.3 to read:

.1 Dispenser - Exterior:

.1 Remote mounted, cabinet type meter and dispenser unit.

.2 Internal pump:

.1 Type: direct drive positive displacement gear type, self priming.

.2 Dry prime capacity: minimum 5m, and to suit installation.

.3 Performance: refer to the schedules.

.4 Motor

.1 120/1/60

.2 Explosion proof suitable for operation,

.3 Built in thermal protection.

~~.4 – inline exterior mounted spin-on filter for particulate and water.~~

~~.5~~**.4** Electronic metering head, litre readout, suitable for use with fuel management system.

.1 Electronic calibration

.2 Operating status indication.

~~.6~~**.5** Backlight LCD readout.

~~.7~~**.6** Product identification LED lighting

~~.8~~**.7** Dispensing nozzle cradle with integrated pump actuating switch unit.

~~.9~~**.8** Padlock type nozzle/switch lock.

~~.10~~**.9** Single hose:

.1 Automatic shut-off nozzle

~~.11~~**.10** Minimum flow rating: 38 LPM.

~~.12~~**.11** ULC listed for application.

~~.13~~**.12** Acceptable product:

Revise: 2.7 to read:

**.1 Automatic Nozzles** ~~Nozzles for Diesel and Gasoline~~

.1 Provide UL/ULC listed automatic dispensing nozzles on the dispensing hose conforming to CAN/ULC-S620, “Hose Nozzle Valves for Flammable and Combustible Liquids” as follows:

.1 Female NPT threaded inlet connection, aluminum body, with Viton main disc, and graphite with Teflon packing.

.2 The nozzle shall employ a dash-pot-type shut-off mechanism, have a three-position hold-open device, and have an angled spout with spout ring. 23.8 mm OD aluminum discharge spout that is replaceable.

.3 Dual poppet system for nozzle opening against high inlet pressure.

.4 Built-in discharge shut-off valve that automatically closes when the spout is tipped up.

.5 Maximum pressure is 345 kPa.

**.2 Gasoline:**

**.1 19mm NPT automatic shut-off nozzle**

**.2 Red hand insulator boot over nozzle with splash guard**

**.3 Acceptable Material:**

**.1 OPW Model 14BP series**

**.2 Approved equivalent.**

~~.2~~**.3** Diesel Fuel low flow dispensing:

.1 25 mm NPT automatic shut-off nozzle.

.2 Yellow hand insulator boot over nozzle with splash guard.

.3 Acceptable Material:

.1 OPW Model 7HB-0900 c/w model 8HY-0900 Fillguard.

**.2 Approved equivalent.**

**.4 Diesel Tight Fill**

**.1 To suit City of Winnipeg fleet diesel tank fill inlet.**

**.2 25mm nominal, swivel inlet hose connection.**

**.3 Dry-break coupling type.**

**.4 Flow rated to 185 LPM**

**.5 Built-in fuel level monitoring**

**.6 Pressure sensing auto shut off.**

**.7 Acceptable Material:**

**.1 EMCO Wheaton Posilok 105**

**.2 Approved equivalent**

Revise: 2.12.9 to read:

8 of 450 x450 pillows.

~~.1 Acceptable material: Seton DAWG Oil Only, Spill Response Kit~~

~~.2 Approved equal.~~

Add: 2.12.10:

Acceptable material:

.1 Seton DAWG Oil Only, Spill Response Kit

.2 Seton DAWG Universal Absorbant Spill Kit

.3 Approved equal

Section 23 11 23 Facility Natural Gas Piping

Add: 2.7 SUPERVISED SHUT-OFF VALVES:

.1 Supervised valve/ cock, carbon steel or stainless steel, minimum 150 psi rated, FM CSA approved for class 1 Div 1 hazardous location, open and closed limit switches, outdoor installation rated, model Jamesbury Figure 1051 Series 7000 valve, or A-T Controls, or approved equivalent, interfaced with generator controls and BAS, c/w "EMERGENCY GENERATOR DO NOT SHUT-OFF" weatherproof sign.

.2 Supervised valve shall be interfaced with emergency generator and BAS system.

.3 Acceptable products are:

.1 Jamesbury Figure 1051

.2 A-T Controls

.3 Approved equivalents

Section 23 21 16 Hydronic Piping Specialties

Add: 2.10.2.1.4 Caleffi

Section 23 33 00 Air Duct Accessories

Add: 2.18.6.4 Price Noise Control

Section 23 34 00 HVAC Fans

Revise: 2.6.3 to read: **.5 Canarm**

Section 23 35 16 Engine Exhaust Extraction

Revise: 2.3 to read:

.1 Approved for Diesel exhaust fume exposure.

.2 Working Temperatures (Minimum):

.1 Rated Temperature Range**: 15 -** ~~18~~C **to 600** ~~300~~C ~~(0F to 600F (Baking test)~~ **(60F to 1110F)**

**.2 750** ~~350~~C **(1360F** ~~660F~~**)** Intermittent Exhaust Temperatures

**.3 Construction:**

**1. Minimum** double ply hose

~~.1 Nomex or Kevlar construction.~~ **Silicone and Asbestos free construction**

**2. Mechanically bonded** Helically wound spring steel wire reinforcement.

**3. Rated for negative pressure to negative1500 Pa.**

.4 Acceptable product:

.1 Neederman

.2 Monoxivent

~~.2~~**.3 Novaflex**

~~.3~~**.4** Approved equivalent.

Revise: 2.4 to read: **.1** Adapters: **The City will provide required adapters and safety tear-away couplings to be installed to the exhaust hose. The following is provided for Information only:**

**.1** ~~Provide e~~ Exhaust hose end adapters suitable for use on:

Add: 2.4.3.4 .4 Refer to City of Winnipeg existing product.

Revise: 2.4.4 to read: Acceptable **products:**

**.1** Exhaust extraction manufacturer **products.**

Section 23 36 00 Variable Air Volume Terminal Units

Add: 2.1.13.8 Precision Coils

Add: 2.1.13.9 Madok

Section 23 72 00 Hydronic Air Handling Units

Revise: 2.2 to read: AIR HANDLING UNITS **(AHU) / HEAT RECOVERY UNITS (HRU)**

Add: 2.2.8.12 Unitech

Add: 2.2.8.13 Carrier Racan

Add: 2.2.8.14 SolutionAir

Revise: 2.19 to read: ENERGY RECOVERY UNITS **(ERV)**

Section 23 74 00 Gas-fired Air Handling Units

Add: 2.2.8.8 SolutionAir

Section 23 82 00 Forced Air Curtains

Add: 2.1.2.1.4 to read: Berner

Section 23 82 16 Air Duct Coils

Add: 2.1.4.5 Precision Coils

Add: 2.1.4.6 Madok

Section 23 82 19 Fan Coil Units

Add: 2.1.14.9 Price Industries

Section 23 82 39 Cabinet and Unit Heaters

Add: 2.1.7.6 Vulcan

Delete: 593-2024B_NMS_Section 25 50 00 - Building Automation System (BAS)

Add: 593-2024B_Addendum_7_NMS_Section 25 00 00 - Building Automation System (BAS)

Replace: Section 25 95 00 Sequence of Operation with 593-2024B_Addendum_7_Section 25 95 00_Sequence of Operation-R1

Section 26 05 00 Basic Electrical Materials and Methods

Add: 2.2.8 Factory or site threaded rigid aluminium conduit to CSA C22.3 No. 45, with bending, couplings, fittings, etc., requirements as for rigid galvanized steel conduit.

Revise: 3.3.2.3 to read: for exposed conduit outside building, for semi-exterior areas such as loading areas and within parking garage floor areas – rigid galvanized steel ~~(rigid PVC where permitted by local codes and City and reviewed with Contract Administrator)~~;

Revise: 3.3.2.4 to read: for exposed conduit in non-climate-controlled areas, in areas of corrosive elements – epoxy coated ~~ridged galvanized steel~~ **rigid aluminum;**

Delete: Item 3.3.2.7

Section 26 05 19 – Low Voltage Conductors

Add: 2.1.8 Conductors of amperage rating exceeding 400 A or rating specifically noted on drawings, or for specific conductors as noted on drawings, may be aluminum alloy conductors. Aluminum alloy conductors to be equivalent to ALCAN "NUAL" AA8030 RW90 aluminum alloy conductors. Provide connectors and associated hardware compatible to aluminum alloy conductors as per aluminum wiring manufacturer's recommendations and as required by local governing electrical code. Install aluminum alloy conductors with hardware and connected in accordance with conductor manufacturer's instructions and as per requirements of local governing electrical code. Aluminum conductors shall have anti-oxidant compound applied to termination points. Resize conductors and conduits from copper-based sizing as required, maintaining ampacity ratings noted, in compliance with local governing electrical code.

Revise: 2.3.2 to read: nVent Pyrotenax, model "System 1850 Twisted Pair", CSA certified as FAS~~, FAS 90 and FAS 105 cable~~**,** ULC listed and labelled, 300 V, type "MI", 2-hour fire rated, copper sheathed, copper conductor, highly compressed magnesium oxide mineral insulated fire alarm and voice communication cable. Connectors for copper-sheathed mineral conductors to be cable manufacturer's proper connectors and accessories as recommended by manufacturer to suit specific applications. ULC Listed 2-hour fire-resistive cable tested to ULC-S139 fire test standards.

Delete: Item 2.6.1.10

Delete: Item 3.4.3.1

Delete: Item 3.4.3.3

Revise: 3.4.3.8 to read: fire alarm system feeders as shown interconnecting ~~existing~~ fire alarm system and additional system;

Section 26 05 36 Cable Trays

Revise: 2.2.1.4 to read: ~~side rails and rungs constructed of stainless steel wires and hardware, conforming to requirements of AISI Type 304L;~~ **side rails and rungs constructed of 6063-T6 aluminum;**

Revise: 2.3.1.3 to read: ~~tray constructed from steel conforming to requirements of ASTM A569 and be hot dip galvanized after manufacture and assembly, per CSA G164 or ASTM A123, providing minimum average thickness of 2.55 mils (0.06 mm) per side;~~ **constructed of 6063-T6 aluminum;**

Section 26 05 70 – Electrical Work Analysis and Testing

Revise: 3.9.4.1 to read: Measure magnetic field throughout entire area where magnetic field might be present in excess of acceptable limits. Take special care in areas ~~of patient care, intensive care, operating rooms, diagnostic rooms, and~~ above and in close proximity of main electrical rooms and main power feeders such as bus ducts risers, cable runs etc.

Section 26 12 00 Pad Mounted Transformers – Building and Charger

Revise: 3.1.8 to read: Arrange for transformer manufacturer to provide necessary drawings for installation. In addition, if required, obtain from manufacturer necessary copies of detail drawings, testing results, **training coordination etc.,** required for approval of transformer and installation work from Utility and any other local authority having jurisdiction. Obtain required approvals and certificates.

Section 26 12 11 High Voltage Disconnect Switch and Fuse

Revise: 2.1 to read: HIGH VOLTAGE DISCONNECT SWITCH CHARACTERISTICS **(FOR REFERENCE ONLY)**

Revise: 2.2 to read: HIGH VOLTAGE FUSE CHARACTERISTICS **(FOR REFERENCE ONLY)**

Revise: 2.4 to read: SOURCE QUALITY CONTROL **(FOR REFERENCE ONLY)**

Revise: 2.5 to read: PREPARATION FOR SHIPMENT **(FOR REFERENCE ONLY)**

Section 26 12 13 Liquid Filled, HV Pad-mount Transformer

Revise: 2.1 to read: TRANSFORMER CHARACTERISTICS **(FOR REFERENCE ONLY)**

Revise: 2.5 to read: SOURCE QUALITY CONTROL **(FOR REFERENCE ONLY)**

Section 26 13 18 12.47 kV Switchgear

Revise: 2.2 to read: SWITCHGEAR ASSEMBLY **(FOR REFERENCE ONLY)**

Revise: 2.3 to read: COMPONENTS **(FOR REFERENCE ONLY)**

Revise: 2.4 to read: METERING **(FOR REFERENCE ONLY)**

Revise: 2.5 to read: FABRICATION **(FOR REFERENCE ONLY)**

Revise: 2.6 to read: FACTORY FINISHING **(FOR REFERENCE ONLY)**

Revise: 2.8 to read: ADDITIONAL MATERIAL/ACCESSORIES **(FOR REFERENCE ONLY)**

Revise: 2.9 to read: APPROVED MANUFACTURER **(FOR REFERENCE ONLY)**

Revise: 2.10 to read: FACTORY TESTING **(FOR REFERENCE ONLY)**

Revise: 3.4.1 to read: **Contractor to coordinate training only.** Furnish the services of a competent, factory-trained engineer or technician for two sessions (each of a minimum of 8 hours duration) instruct City of Winnipeg electrical maintenance personnel in the operation and maintenance of the equipment, on a date requested by the Contract Administrator. This item shall be specifically confirmed by the Supplier at the time of Bidding.

Replace: 593-2024B _NMS_Section_26 20 00 – Electric Service and Distribution with
593-2024B_Addendum_7_NMS_26 20 00 – Electric Service and Distribution-R1

Section 26 22 00 – Distribution Transformers

Revise: 2.2.1 to read: ~~Hammond Power Solutions, "Sentinel G" series~~ **Dry** type transformers as noted or scheduled on drawings, CSA approved and/or ULC listed and labelled. Transformers to be constructed and factory tested in accordance with applicable requirements of above codes and standards, and other local governing authority codes and standards

Revise: 2.3.1 to read: ~~Hammond Power Solutions, "Sentinel K" series~~ **K-rated** dry type transformers as noted or scheduled on drawings, CSA approved and/or ULC listed and labelled, constructed and factory tested in accordance with above codes and standards, and other local governing authority codes and standards.

Section 26 23 00 – Low Voltage Switchboards

Revise: 2.2 to read: STANDARD SWITCHBOARDS – SWBD-41**, 6DP-01, 6DP-02, 6DP-03, 6DP-04, 6DP-06, 6DP-07, 6DP-08, 6DP-09**

Delete: Item 2.1.19.1

Delete: Item 2.2.13.1

Section 26 24 16 – Distribution Panelboards

Revise: 2.1.1 to read: ~~Eaton, "Pow-R-Line" series~~ Factory assembled dead front panelboards as per drawing schedules, manufactured to CSA Standard C22.2. No. 29. Generally, interrupting capacities are scheduled, but in absence of direction, provide to capacity to suit intended application and to suit local governing electrical code requirements**.**

Revise: 2.1.2 to read: Circuit breaker type ~~"PRL4B"~~ distribution panelboards to be single or double row as required and complete with moulded case, bolt-on circuit breakers calibrated for 40°C (104°F) ambient temperature and conforming to CSA Standard C22.2 No. 5 (Note No. 1).

Locate both main lugs and neutral bar at same end. Shield main lugs through a removable cover. Identify each circuit breaker adjacent breaker handle. Refer to Part 1 for requirements of breakers to be provided with solid-state adjustable trip units. Group mount circuit breakers.

Revise: 2.1.3 to read: Switch and fuse type ~~"PRL4F"~~ distribution panelboards, complete with quick-make, quick-break, visible contact load break switches with operating handles projecting through dead front panel and interlocked with switch mechanism, facilities for padlocking in either ON or OFF position, and, unless otherwise noted, HRC Form I, Class "J" fuses.

Revise: 2.1.4 to read: Distribution panelboards of rating greater than **or equal to** ~~1200~~ **600 amperes rating to be** ~~series "Pow-R-Line C"~~ switchboard types as specified in Section 26 23 00.

Revise: 2.1.15 to read: Panelboards ~~as scheduled~~ to be complete with integral surge protective devices (SPDs). Unit to be factory installed and connected onto bussing through integral disconnect/ breaker as recommended by manufacturer. Unit to include diagnostic package with status indicators on each phase, audible alarm and Form C alarm contacts. Unit to be maintenance free. Refer to Section 26 43 00 for additional SPD requirements for distribution panelboards.

Section 26 24 17 – Branch Circuit Panelboards

Revise: 2.1.1 to read: ~~Eaton "Pow-R-Line" series,~~ **F**actory assembled dead front panelboards as per schedules, manufactured to CSA Standard C22.2 No. 29 and local governing electrical code, and designed for sequence phase connection of branch circuit breakers.

Revise: 2.1.2.1 to read: For panels with main breaker or main lugs up to 225 A, 120/208 V: ~~"Pow-R-Line 1",~~ 3-phase and single phase with minimum "BAB" frame, bolt-on moulded case circuit breakers with a minimum interrupting capacity of 10 KA symmetrical at 208 V, unless otherwise scheduled. Where panelboards are schedule to include series rated provisions, provide breakers as recommended by panel manufacturer**.**

Revise: 2.1.2.2 to read: For panels with main breaker or main lugs up to 225 A, 347/600 V: ~~"Pow-R-Line 2",~~ 3-phase panelboards with bolt-on moulded case circuit breakers with interrupting capacity as scheduled or in absence of direction to be of capacity for intended application to local governing electrical code requirements.

Revise: 2.1.2.3 to read: For panels with main breaker or main lugs 400 A to 600 A, 120/208 V and 347/600 V: ~~"Pow-R-Line 3",~~ 3-phase panelboards with bolt-on moulded case circuit breakers with interrupting capacity as scheduled or in absence of direction to be of capacity for intended application to local governing electrical code requirements.

Revise: 2.1.5.8 to read: 200% sized neutrals ~~for panels equipped with SPD units and~~ for panels as scheduled;

Add: 2.1.5.17 Panelboards as scheduled to be complete with integral surge protective devices (SPDs). Unit to be factory installed and connected onto bussing through integral disconnect/ breaker as recommended by manufacturer. Unit to include diagnostic package with status indicators on each phase, audible alarm and Form C alarm contacts. Unit to be maintenance free. Refer to Section 26 43 00 for additional SPD requirements for branch circuit panelboards.

Delete: Section_26 27 13 – Metering

Section 26 27 28 – Service Floor Boxes

Delete: Item 2.1 Poke Through Floor Assemblies (150MM)

Delete: Item 2.2 Poke Through Floor Assemblies (100MM)

Delete: Item 3.2

Section 26 32 03 – Natural Gas Gensets

Revise: 2.11.2.1 to read: Cummins ~~Eastern Canada LP~~**;**

Section 26 32 05 – GENSET ENCLOSURES

Add: 2.1.15: Review site conditions, as applicable during site visit and note that final dimensions to also suit any restrictions of site and be subject to approval from the City and review with Contract Administrator. Coordinate exact dimensions of enclosure with dimensions of structural pad and site conditions.

Add: 3.1.20: For on grade installations: Coordinate structural base requirements for mounting of containerized genset with Structural Consultant and General Trades Contractor. Provide concrete pad as detailed on drawings. Unless otherwise detailed or noted on drawings, concrete pad to be typically of dimensions covering size of genset enclosure and extending 600 mm (2') beyond each side, and of depth to accommodate weight of entire unit with full loaded fuel. Include for seismic restraints as required.

Section 26 33 33 – Inverter Rectifier and Charger

Revise: 2.5.3 to read: Enclosure for indoor application: Heavy Duty NEMA **1 with sprinkler-proof provisions including drip shield**, fabricated from galvanized steel sheet complete with heavy duty floor. Partitions and baffles of same material as enclosure. Rubber vibration pads at mounting locations. Include drip shields in damp locations, provisions for lifting and suitable for floor mounting.

Section 26 33 53 – Uninterruptible Power Supply Units

Revise: 2.1.1 to read: ~~Eaton,~~ CSA approved and ULC listed, ~~93PM series~~ continuous duty, on line uninterruptible power supplies, as specified in following paragraphs and as noted on drawings.

Section 26 43 00 – Surge Protective Devices

Revise: 2.1.1 to read: Switchgear / switchboards to be complete with ~~either external or~~ integral surge protective devices (SPDs). ~~If external, unit to be connected onto bussing through dedicated breaker as recommended by manufacturer.~~ If integral, unit to be factory installed into separate cubicle section and connected onto bussing through integral disconnect as recommended by manufacturer. SPD features include following:

Revise: 2.1.2 to read: Distribution panelboards ~~as scheduled~~ to be complete with integral surge protective devices (SPDs). Unit to be factory installed and connected onto bussing through integral disconnect/breaker as recommended by manufacturer. SPD features include:

Section 26 60 10 – Electric Pipe Tracing Cable

| | | |
|---|---|---|
| Revise: | 2.2.2 to read: | ~~nVent "Raychem XL-Trace",~~ ULC listed and labelled, CSA approved, self-regulating electric heat tracing cable as follows: |
| Revise: | 2.2.2.5 to read: | have a self-regulating factor of at least 90 percent for ~~5/8XL series~~ **5 or 8W/ft** cable or at least 70 percent for ~~12XL series~~ **12W/ft cable**; self-regulating factor is defined as the percent reduction of the heating cable power output going from a 4°C (40°F) pipe temperature to 65°C (150°F) pipe temperature; |
| Revise: | 2.3.1 to read: | ~~nVent C910,~~ CSA approved, ULC listed and labelled, single circuit local digital controller with features as follows: |
| Delete: | Item: 3.1.1 | |

Replace: 593-2024B _NMS_Section_27 05 00 – Common Work Results for Communications with 593-2024B_Addendum_7_NMS_27 05 00 - Common Work Results for Communications- R1

Section 27 05 28 – Pathway For Communications Systems

Delete Item 1.3.4

| | | |
|---|---|---|
| Revise: | 3.6.2 to read: | Should aluminum trays be specified (City approval is mandatory), the ~~Contract Administrator~~ **Contractor** is to ensure that~~, during the grounding or bonding aspects of the installation, the Contractor uses~~ tin plated or zinc coated ground connectors **are utilized for grounding and bonding aspects of the installation**. |

Section 27 10 05 – Structured Cabling for Communications Systems

| | | |
|---|---|---|
| Revise: | 2.8 to read: | 9/125 MICROMETER SINGLE-MODE INDOOR-OUTDOOR OPTICAL FIBRE CABLE **AND 850 NANOMETER LASER-OPTIMIZED 50/125 MICROMETER OM4 RATED MULTIMODE INDOOR-OUTDOOR OPTICAL FIBRE CABLE.** |
| Revise: | 2.8.2 to read: | ~~All indoor fibre cabling shall be OS1/indoor rated. All cabling outdoors for any distance shall be OS2 outdoor rated.~~ **Multimode fibre shall be OM4 rated and single-mode fibre shall be OS1 rated when indoors only and OS2 rated for any distances outdoor.** |
| Revise: | 2.8.4.1 to read: | Comply with TIA-492CAAB **(for single-mode fibre) and TIA-492-AAAC (for multimode fibre)** for detailed specifications. |
| Revise: | 2.8.5 to read: | Maximum Attenuation **for single-mode fibre**: 0.5dB/km at 1310nm; 0.5dB/km at 1550nm. |
| Add: | 2.8.8: | Maximum Attenuation for multimode fibre: 3.5dB/km at 850nm; 1.5dB/km at 1300nm. |
| Add: | 2.8.9: | Minimum Overfilled Modal Bandwidth-length Product for multimode fibre: 4700MHz-km at 850nm; 500MHz-km at 1300nm. |
| Revise: | 2.12.1 to read: | **Multimode and s**~~S~~ingle-mode fibre patch cords shall match the wavelength of the used backbone cable. |

Add: 593-2024B_NMS_Section 28 16 00 - Intrusion Detection

Replace: 593-2024B_Addendum_5_NMS_28_05_13_CONDUCTORS_AND_CABLES_FOR_ELECTRONIC_SAFETY_AND_SECURITY with: 593-2024B_Addendum_7_NMS_28_05_13_CONDUCTORS_AND_CABLES_FOR_ELECTRONIC_SAFETY_AND_SECURITY-R1

Replace: 593-2024B_Addendum_5_NMS_28_13_00_-_ACCESS_CONTROL with:

593-2024B_Addendum_7_NMS_28_13_00_-_ACCESS_CONTROL-R1

Replace: 593-2024B_Addendum_5_NMS_28_23_00_-_VIDEO_SURVEILLANCE with:

593-2024B_Addendum_7_NMS_28_23_00_-_VIDEO_SURVEILLANCE-R1

Section 28 46 00 Multiplex Fire Alarm Systems

Revise: 2.1.1 to read: ~~Edwards "EST3" Series,~~ **M**ultiplexed, single-stage, addressable, zoned, non-coded, indicating, fully integrated and field programmable system complete with emergency voice communications (EVC) and fire-fighters' communications. Entire system is designed as a centralized data communication and processing system.

Delete: Item 2.15

Replace: 593-2024B_NMS_Section 32 16 15 – Coloured Concrete-R0 with:

593-2024B_Addendum_7_Section 32 16 15 – Coloured Concrete-R1

Replace: 593-2024B Section 32-31-12 - AUTOMATIC BARRIER FENCE GATE with:

593-2024B_Addendum_7_NMS_32_31_12_-_ AUTOMATIC BARRIER FENCE GATE-R1

Section 32 92 19 Hydraulic Seeding

Revise: 2.1.2 to read: Seed Mixes **as composed by Ontario Seed Company (OSC) or approved equivalent:**