

MANHOLE, CATCH BASIN, CATCH PIT & DITCH INLET STRUCTURE AND LOCATION TABLE

STRUCTURE NAME	DESCRIPTION	FRAME & COVER	NORTHING	EASTING	EX RIM ELEV	PROP RIM ELEV	INV NORTH	INV SOUTH	INV EAST	INV WEST	BOTTOM ELEV	CB LEAD
CB.181	SD-025 CB w/ BEEHIVE INLET		5523707.943	630864.297		231.770	NE 230.315		230.241	230.078	228.07	10.0m OF 250 SSP @ 1.52%
CB.182	SD-024 CB		5523676.229	630879.018		231.166			231.403		228.13	2.4m OF 300 SSP @ -2.00%
CP.16	SD-023 CP		5523657.621	630722.971		232.303				231.505	221.45	2.5m OF 250 SSP @ 2.00%
CP.17	SD-023 CP		5523670.457	630721.677		232.437	NE 231.489				229.44	2.5m OF 250 SSP @ 2.00%
CP.20	SD-023 CP		5523709.885	630896.437		231.845		230.244			231.00	10.7m OF 300 SSP @ 1.50%
CP.37	SD-023 CP		5523671.683	630928.798		231.051	231.313				228.24	2.4m OF 250 SSP @ 2.00%
CP.38	SD-023 CP		5523732.164	630930.199		232.136		SW 230.438			229.31	2.5m OF 250 SSP @ 2.02%
CP.40	SD-023 CP		5523682.563	630884.258		231.272	229.936				228.44	8.2m OF 250 SSP @ 1.50%
CP.41	SD-023 CP		5523664.966	630935.294		230.786			231.489		227.94	2.5m OF 250 SSP @ 1.98%
CP.43	SD-023 CP		5523670.445	630716.696		232.488			231.521		229.47	2.5m OF 250 SSP @ 2.01%
CP.44	SD-023 CP		5523656.353	630718.133		232.371				231.768	231.51	2.5m OF 250 SSP @ 2.00%
CP.45	SD-023 CP		5523691.894	631032.970		232.618				231.435	229.77	2.5m OF 250 SSP @ 1.99%
CP.46	SD-023 CP		5523692.170	630995.479		232.285			230.292		229.44	2.5m OF 250 SSP @ 2.01%
CP.92	SD-023 CP		5523675.512	630881.452		231.142			230.838		228.29	2.5m OF 250 SSP @ 2.01%
CP.93	SD-023 CP		5523675.622	630834.499		231.566				230.983	228.72	2.5m OF 250 SSP @ 2.00%
CP.94	SD-023 CP		5523669.798	630785.478		231.844				230.925	228.99	2.5m OF 250 SSP @ 1.50%
CP.99	SD-023 CP		5523715.729	630952.962		231.775			230.681		228.92	2.5m OF 250 SSP @ 2.01%
CP.104	SD-023 CP		5523698.277	630865.140		231.531				230.702	230.08	2.6m OF 250 SSP @ 2.00%
CP.105	SD-023 CP		5523694.402	630936.960		231.552	NW 230.361				230.10	2.3m OF 250 SSP @ 2.00%
CP.107	SD-023 CP		5523684.118	630949.544		231.448		SE 231.148			230.00	12.8m OF 300 SSP @ 1.50%
CP.109	SD-023 CP		5523724.439	630897.297		231.998					229.15	11.4m OF 250 SSP @ 1.50%

WATERMAIN STRUCTURE AND LOCATION TABLE

STRUCTURE NAME	DESCRIPTION	NORTHING	EASTING
B.2	WM 45 BEND	5523684.2914	630961.2683
B.5	WM 45 BEND	5523661.4266	630934.3525
B.7	WM 22 BEND	5523684.0416	631049.3563
B.8	WM 22 BEND	5523681.8209	631043.7362
B.9	WM 22 BEND	5523674.0257	630863.4255
B.10	WM 11 BEND	5523658.3669	630735.2103
B.11	WM 11 BEND	5523664.0497	630899.1859
GV.1	WM VALVE	5523649.1716	630705.9343
GV.3	WM VALVE	5523673.6232	630864.8701
GV.6	WM VALVE	5523682.3409	631026.8318
H.1	WM HYDRANT	5523662.6032	630782.5960
H.2	WM HYDRANT	5523672.7045	630862.5319
H.3	WM HYDRANT	5523677.2324	630950.5565
H.4	WM HYDRANT	5523678.5523	631030.8667
HV.1	WM VALVE	5523663.4931	630782.4662
HV.2	WM VALVE	5523673.5428	630862.4497
HV.3	WM VALVE	5523676.5999	630951.2023
HV.4	WM VALVE	5523679.5088	631030.8796
T.1	WM TEE	5523682.2869	631028.7134
T.2	WM TEE	5523682.2052	631030.9350
T.3	WM TEE	5523682.3143	631027.8314
T.4	WM TEE	5523682.6361	631015.7442
T.6	WM TEE	5523664.3495	630782.3430
T.7	WM TEE	5523673.9528	630862.3950
T.8	WM TEE	5523669.2371	630822.8813
T.9	WM TEE	5523676.1054	630951.6444

MANHOLE STRUCTURE AND LOCATION TABLE

STRUCTURE NAME	DESCRIPTION	NORTHING	EASTING	EX RIM ELEV	PROP RIM ELEV	BOTTOM ELEV
MH.C1	SD-010 1200 mm	5523713.897	630975.571		232.493	229.71
MH.C2	SD-010 1200 mm	5523707.335	631025.644		232.657	229.50
MH.C3	SD-010 1200 mm	5523683.885	631022.756		232.909	229.64
MH.C4	SD-010 1200 mm	5523683.489	631037.528		232.989	229.49
MH.L12	BASE Ø 1800, HT 1800 TRANSITION 1800x1200	5523683.103	630715.228		232.909	228.88
MH.L20	SD-010 1200 mm	5523704.904	630917.799		231.860	228.81
MH.L35	BASE Ø 1800, HT 1800 TRANSITION 1800x1200	5523698.178	630768.261		232.516	228.99
MH.L37	SD-010 1200 mm	5523676.909	630870.281		231.400	228.42
MH.L42	SD-010 1200 mm	5523670.638	630889.981		231.182	228.05
MH.L47	BASE Ø 1500, HT 1800 TRANSITION 1500x1200	5523668.752	630913.647		231.130	227.27
MH.L67	SD-010 1200 mm	5523705.105	630949.237		231.828	229.40

**PUMPING STATION ACCESS ROAD
C2-CU-021, CU-022, CU-023 & CU-025**

WATERMAIN STRUCTURE AND LOCATION TABLE

STRUCTURE NAME	DESCRIPTION	NORTHING	EASTING
H.5	WM HYDRANT	5523249.9412	630875.6350
H.6	WM HYDRANT	5523333.7509	630876.3793
H.7	WM HYDRANT	5523420.5545	630864.8423
H.8	WM HYDRANT	5523501.6337	630856.4767
HV.5	WM VALVE	5523248.9452	630875.6425
HV.6	WM VALVE	5523332.7266	630876.3141
HV.7	WM VALVE	5523420.4689	630863.9396
HV.8	WM VALVE	5523501.5684	630855.4802

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

1. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.
3. OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



BID OPPORTUNITY NO. 473-2016

			<p>UNDERGROUND STRUCTURES</p> <p>SUPV. U/G STRUCTURES DATE</p> <p>LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.</p>	<p>B.M. ELEV.</p>		<p>DESIGNED BY: MPG</p> <p>CHECKED BY:</p> <p>DRAWN BY: KLC</p> <p>APPROVED BY:</p>		<p>THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT</p>	<p>WAVERLEY STREET UNDERPASS AT CN MILE 3.89 RIVERS SUB CONTRACT 2: UNDERPASS STRUCTURE, RAILWORKS, ROADWORKS, LAND DRAINAGE SEWER, PUMPING STATION AND LANDSCAPING WORKS</p>	<p>CITY DRAWING NUMBER: U239-2016-C2-CU-037</p> <p>SHEET 37 OF 41</p>