

DRAWING NOTES

1.0 GENERAL

1.1 CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

1.2 DO NOT SCALE DRAWINGS.

1.3 CONTRACTOR TO REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE ARCHITECT OR DESIGN ENGINEER AS APPLICABLE.

1.4 USE ONLY THE LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".

1.5 ALL CONSTRUCTION SHALL COMPLY WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.

1.6 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS.

1.7 FOR LEGAL SURVEY INFORMATION REFER TO REGISTERED PLAN.

1.8 REFER TO SITE PLAN BY S. J. LAWRENCE ARCHITECT INCORPORATED.

1.9 CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA. PRIOR TO UNDERTAKING ANY SITE ALTERATIONS INCLUDING GRADING, REMOVAL OF VEGETATION, ETC., DURING ALL PHASES OF THE SITE PREPARATION AND CONSTRUCTION THE MEASURES ARE TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. SHOULD ANY ADDITIONAL MEASURES BE REQUIRED TO ADDRESS FIELD CONDITIONS THEY SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE CITY OF OTTAWA. SUCH ADDITIONAL MEASURES MAY INCLUDE BUT NOT BE LIMITED TO INSTALLATION OF FILTER CLOTHS ACROSS MANHOLE AND CATCH-BASIN LIDS TO PREVENT SEDIMENT FROM ENTERING THE STRUCTURE AND INSTALLATION AND MAINTENANCE OF A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.

1.10 ALL IRON WORK ELEVATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR ADJUSTMENTS AS DETERMINED BY THE ENGINEER.

1.11 ALL CONCRETE CURBS AND SIDEWALKS TO CONFORM TO CITY STANDARDS SC1.1 AND SC1.4. ALL ONSITE CURBS TO BE BARRIER TYPE, WITH DEPRESSIONS AS NOTED.

1.12 ALL CONCRETE SHALL BE "NORMAL PORTLAND CEMENT" IN ACCORDANCE WITH O.P.S.S. 1350 AND SHALL ACHIEVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.

1.13 ALL CONSTRUCTION TRAFFIC TO AVOID SITE FROM BANK STREET.

1.14 FOR GEOTECHNICAL REPORT SEE GEOTECHNICAL INVESTIGATION PROPOSED COMMERCIAL DEVELOPMENT - 4836 BANK STREET, OTTAWA, ON, REPORT NO. PG2934-LET.01 REVISION 1 BY PATERSON GROUP DATED NOV. 19/2019. FOR GEOTECHNICAL REPORT ON DUN SKIPPER DRIVE SEE GEOTECHNICAL INVESTIGATION PROPOSED RESIDENTIAL DEVELOPMENT REMER LANDS OTTAWA, ONTARIO REPORT #15-1121-0083 (10402945) PREPARED BY GOLDER ASSOCIATES.

1.15 CONTRACTOR TO PROTECT EXISTING INFRASTRUCTURE AND PROPERTY SUCH AS TREES, PARKING METERS, SIDEWALKS, CURBS, ASPHALT AND STREET SIGNS FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR TO PAY THE COST TO REINSTATE OR REPLACE ANY DAMAGED INFRASTRUCTURE OR PROPERTY TO THE SATISFACTION OF THE CITY.

1.16 THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS, AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM ITSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, SHALL PROTECT ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

1.17 CONTRACTOR TO SUPPLY SUTABLE FILL MATERIAL WHERE REQUIRED TO ROUGH GRADE THE SITE. ALL IMPORTED FILL MATERIAL TO BE CERTIFIED AS SPECIFIABLE BY THE GEOTECHNICAL ENGINEER.

1.18 CONTRACTOR TO HAIL EXCESS MATERIAL OFFSITE AS NECESSARY TO GRADE SITE TO MEET THE PROPOSED GRADES. ALL EXCESS MATERIAL TO BE HAILED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY CONTAMINATED WATER, THE CONTRACTOR IS TO NOTIFY ENGINEER, ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.

1.19 FILL MATERIAL WITHIN THE PARKING LOT AND BUILDING PAD AREAS, AND SUPPORTING BUILDING FOUNDATIONS SHALL BE COMPACTED TO 98% STANDARD MODIFIED PROCTOR DENSITY AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.

1.20 ALL COMPACTION METHODS TO BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO INCLUDE BUT NOT BE LIMITED TO THE THICKNESS OF LIFTS, AND COMPACTION EQUIPMENT USED.

1.21 ALL DISTURBED BOULEVARDS TO BE REINSTEATED WITH SOD ON 100mm TOPSOIL.

1.22 UTILITY DUCTS TO BE INSTALLED PRIOR TO ROAD BASE CONSTRUCTION.

1.23 CLAY DIKES TO BE INSTALLED WHERE INDICATED ON THE DRAWINGS OR AS APPROVED AND DIRECTED BY THE GEOTECHNICAL ENGINEER. ALL IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.

1.24 ALL UTILITY BOXES (i.e. PEDESTALS, TRANSFORMERS, ETC) ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF OTTAWA'S "GUIDELINES FOR UTILITY PEDESTALS WITHIN THE ROAD RIGHT OF WAY".

1.25 FOR SITE BENCH MARK SEE SURVEY BY H. A. KEN SHIPMAN SURVEYING LTD. REF. NO. GL-495.

2.0 SANITARY

2.1 ALL SANITARY SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OSPS 1005.01. SANITARY SEWER MATERIALS TO BE: 200mm AND SMALLER - PVC DR 35

2.2 ALL SANITARY MAINTENANCE HOLES TO BE 1.2m DIAMETER AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, FRAME AND COVER, DROP PIPES AND LANDINGS WHERE NEEDED.

2.3 SANITARY MANHOLE COVERS TO BE CITY OF OTTAWA STD. S25 (MOD. OPSD. 401.020). SANITARY MANHOLE COVER TO BE CLOSED COVER TYPE, AS PER CITY STANDARD S24.

2.4 SANITARY SEWER LEAKAGE TEST AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY SPECIFICATIONS PRIOR TO INSTALLATION OF BASE COURSE ASPHALT.

2.5 ANY STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

2.6 CONNECTION TO THE EXISTING SANITARY SEWER TO BE INCLUDED IN THE COST FOR SANITARY SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

3.0 STORM

3.1 ALL STORM SEWERS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ALL STORM SEWERS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ONLY FACTORY FITTINGS TO BE USED. STORM SEWER MATERIALS TO BE: 375mm AND SMALLER - PVC DR 35 450mm AND LARGER - 100% REINFORCED CONCRETE.

3.2 ALL STORM MAINTENANCE HOLES TO BE SIZED IN ACCORDANCE WITH THE PLANS AND AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, AND FRAME AND COVER.

3.3 STORM MH COVERS TO BE OPEN TYPE, AS PER CITY STANDARD S24. FRAMES TO BE PER CITY OF OTTAWA STD. S25. CONTRACTOR TO INSTALL FILTER FABRIC UNDER STORM MH COVER UNTIL SODDING IS COMPLETE.

3.4 STORM MAINTENANCE HOLES TO BE OPSD, SIZE AS SPECIFIED, TAPER TOP.

3.5 ALL CATCH BASINS TO BE AS PER OPSD 705.010. FRAME & FISH TYPE GRATE AS PER CITY OF OTTAWA STD. S18.1.

3.6 150mm DIAMETER SOCK-WRAPPED PERFORATED PG SUBDRAINS TO BE INSTALLED AT THE LIMIT OF THE HEAVY DUTY ROAD STRUCTURE WHERE IT MEETS THE LIGHT DUTY ROAD STRUCTURE AND AT ALL C/S IN HEAVY DUTY ROADS AS IDENTIFIED ON PLAN. SUBDRAINS TO DISCHARGE TO C/S AS SHOWN.

3.7 ANY STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

3.8 CONNECTION TO THE EXISTING STORM SEWER TO BE INCLUDED IN THE COST FOR STORM SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUT TO CITY STANDARDS.

3.9 CONTRACTOR TO PROVIDE IPX-TEMPEST MHF ICD'S SHOP DRAWINGS, OR EQUIVALENT, FOR ENGINEERS REVIEW PRIOR TO ORDERING ICD'S.

4.1 ALL WATERMANS TO BE PVC DR 18, WITH MINIMUM COVER OF 2.4m AND INSTALLED PER CITY OF OTTAWA STANDARDS. THIS INCLUDES REINSTATEMENT OF ROAD CUT TO CITY STANDARDS.

4.2 THRUST BLOCKS TO BE INSTALLED AT ALL BENDS, TEES, AND CAPS ALL TO CITY STANDARDS W25.3 AND W25.4.

4.3 CONTRACTOR TO CONDUCT PRESSURE AND LEAKAGE TESTING OF ALL WATERMANS AND DISINFECT AND CHLORINATE ALL WATERMANS TO THE SATISFACTION OF M.O.E. AND THE CITY OF OTTAWA.

4.4 TRACER WIRE TO BE INSTALLED ALONG THE FULL LENGTH OF WATERMAIN AND ATTACHED TO EACH MAIN STOP AS PER CITY OF OTTAWA STANDARD W36.

4.5 ALL COMPONENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE CATHODICALLY PROTECTED AS PER CITY OF OTTAWA STANDARD W40.

4.6 ALL VALVES & VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLIES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W19 & W24.

4.7 ANY WATERMAIN WITH LESS THAN 2.4m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

4.8 CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE WATER PERMIT FROM THE CITY OF OTTAWA AND PAYMENT OF ANY FEES ASSOCIATED WITH SECURING THE WATER PERMIT. OWNER IS RESPONSIBLE FOR REIMBURSING THE CONTRACTOR FOR THE ACTUAL COST OF ACQUIRING THE WATER PERMIT.

4.9 CONNECTION TO EXISTING WATERMAIN TO BE INCLUDED IN THE COST FOR THE WATERMAIN INSTALLATION. THIS COST INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARD R10.

5.0 PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

5.1 CONTRACTOR TO REINSTATE ROAD CUTS PER CITY OF OTTAWA STANDARD R-10.

5.2 THE CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN FOR REVIEW AND APPROVAL BY THE CITY OF OTTAWA. CONTRACTOR TO MAINTAIN TRAFFIC FLOW DURING THE ENTIRE CONSTRUCTION PERIOD. MAINTENANCE OF ROAD CUTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVISION OF FLAGMEN, DISCOURS AS NECESSARY, BARRICADES AND SIGNS TO THE FULL SATISFACTION OF THE ENGINEER AND ROAD AUTHORITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

5.3 CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL. THIS INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARD R10.

5.4 FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.

5.5 CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.6 GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR A PLACEMENT.

5.7 CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR A MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR A MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.8 ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR A PLACEMENT.

5.9 CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.10 CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE ENGINEER WITH VERIFICATION PRIOR TO PLACEMENT.

5.11 DITCHES DISTURBED DURING CULVERT INSTALLATION AND GRADING OPERATIONS ARE TO BE REINSTEATED TO THEIR ORIGINAL CONDITION AND FLOWLINE GRADES.

5.12 EXISTING EAST SIDE ROAD DITCH ALONG PALLADIUM DRIVE TO BE RE-OPENED AS PER THE GRADING PLAN. ADJACENT AREAS BETWEEN ROAD SIDE DITCH AND PARKING LOT TO BE RE-GRADED AS PER THE GRADING PLAN. ALL RE-GRADED AREAS IN EXISTING PUBLIC RIGHTS OF WAY AND ANY OTHER DISTURBED AREAS IN EXISTING PUBLIC RIGHTS OF WAY ARE TO BE FINISHED WITH SOD ON 100mm TOPSOIL.

5.13 ALL EXCESS MATERIAL TO BE HAILED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER, ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.

5.14 PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESSES) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

CATCH BASIN DATA TABLE										
STRUCTURE ID	AREA ID	STRUCTURE	COVER	ELEVATION		OUTLET PIPE		HEAD	FLOW	ICD TYPE
				TOP OF GRATE	INVERT	DIAMETER (mm)	TYPE			
CB1	MH8	OPSD 705.010	S19	102.05	100.570	200	HDPE PERF	1.65	13.00	Tempest Vortex
CB2	MH9B	OPSD 705.010	S19	101.75	100.350	200	HDPE PERF			
CB3	MH9	OPSD 705.010	S19	102.45	100.950	200	PVC DR-35	1.65	10.00	Tempest Vortex
CB4	MH10A	OPSD 705.010	S19	102.50	101.200	200	PVC DR-35	1.4	6.00	Tempest Vortex
CB5	CBMH1A	OPSD 705.010	S19	101.33	99.980	200	PVC DR-35	1.4	15.00	Tempest Vortex
CB6	CBMH1B	OPSD 705.010	S19	101.45	100.200	200	PVC DR-35	1.4	20.00	Tempest HF - Type A
CB7	CBMH1C	OPSD 705.010	S19	101.30	100.050	200	PVC DR-35	1.4	30.00	Tempest HF - Type B
CB8	MH1B	OPSD 705.010	S19	100.60	99.400	200	PVC DR-35	1.4	47.00	Tempest HF - Type D
CB9	MH1A	OPSD 705.010	S19	100.66	99.420	200	PVC DR-35	1.35	43.00	Tempest HF - Type D
CB10	MH1D	OPSD 705.010	S19	100.40	98.850	200	PVC DR-35	1.65	45.00	Tempest HF - Type B
CB11	MH1E	OPSD 705.010	S19	100.55	98.930	200	PVC DR-35	1.65	15.00	Tempest Vortex
CB12	MH2B	OPSD 705.010	S19	100.40	99.100	200	PVC DR-35			
CB13	MH3	OPSD 705.010	S19	100.30	99.000	200	PVC DR-35	1.5	36.00	Tempest HF - Type B
CB14	MH4	OPSD 705.010	S19	100.45	99.000	200	PVC DR-35	1.5	37.00	Tempest HF - Type B
CB15	CBMH3B	OPSD 705.010	S19	100.92	99.470	200	PVC DR-35	1.65	6.00	Tempest Vortex
CB16	MH5B	OPSD 705.010	S19	100.65	100.020	200	PVC DR-35	1.65	6.00	Tempest Vortex
CB17	MH5A	OPSD 705.010	S19	101.35	99.690	200	PVC DR-35	1.65	6.00	Tempest Vortex
CB18	MH11	OPSD 705.010	S19	100.03	98.320	200	PVC DR-35	1.65	15.00	Tempest Vortex
CBMH1	MH10B	OPSD 701.010	S25 & S28.1 Open	102.21	99.795	250	PVC DR-35	2.54	20.0	Tempest Vortex
CBMH2	CBMH2	OPSD 701.010	S25 & S28.1 Open	101.50	99.016	300	PVC DR-35	2.834	20.0	Tempest Vortex
CBMH3	CBMH3A	OPSD 701.010	S25 & S28.1 Open	100.45	98.705	200	PVC DR-35	2.045	6.0	Tempest Vortex
TCB1	MH11	CITY STD S29	S30/S31	98.70	97.700	450	HDPE PERF			
ECB2	MH11	CITY STD S29	S30/S31	100.04	98.300	450	HDPE PERF			

Bold font indicates CB's with ICD's

Revision: 2020-04-20

WATERMAIN SCHEDULE						
	STATION	DESCRIPTION	FINISHED GRADE (m)	TOP OF WATERMAIN	WATERMAIN COVER	AS-BUILT WATERMAIN
A	0+000	CONNECT TO EX. 400Ø W/M	101.45	98.16	2.29	
	0+008.59	200Ø V&VB	101.67	98.27	2.40	
	0+020	--	101.57	98.17	2.40	
	0+024.72	200Ø x 150Ø HYDRANT TEE	101.76	98.36	2.40	
B	0+034.70	150Ø x 200Ø TEE	102.05	99.65	2.40	
	0+040	--	102.21	99.81	2.40	
	0+048.82	200Ø – 11 1/4" BEND	102.42	100.02	2.40	
	0+050.57	200Ø x 200Ø TEE	102.45	100.05	2.40	
C	0+052.57	200Ø V&VB	102.46	100.06	2.40	
	0+060	--	102.55	100.15	2.40	
	0+060	200Ø x 150Ø HYDRANT TEE	102.65	100.25	2.40	
	0+097.676	200Ø x 150Ø HYDRANT TEE	102.68	100.28	2.40	
	0+100	--	102.68	100.28	2.40	
	0+100.58	200Ø x 200Ø TEE DOMESTIC WATER SERVICE	102.70	100.30	2.40	
	0+120	--	102.70	100.30	2.40	
	0+133.06	200Ø – 11 1/4" BEND	102.56	100.16	2.40	
D	0+136.02	--	102.56	100.16	2.40	
	0+142.04	200Ø x 200Ø TEE	102.42	100.02	2.40	
	0+143.71	200Ø V&VB	102.37	99.97	2.40	
	0+144.76	200Ø CAP	102.33	99.93	2.40	
E	0+000	200Ø x 200Ø TEE	102.45	100.05	2.40	
	0+001.61	200Ø – 11 1/4" BEND	102.39	99.99	2.40	
	0+004.04	200Ø V&VB	102.34	99.94	2.40	
	0+020	--	101.91	99.51	2.40	
	0+040	--	101.35	98.95	2.40	
	0+056.69	200Ø x 150Ø HYDRANT TEE	100.90	98.50	2.40	
	0+060	--	100.74	98.34	2.40	
	0+062.44	--	100.66	98.26	2.40	
	0.081.06	200Ø – 22 1/2" BEND	100.47	98.07	2.40	
	0+084.95	200Ø – 22 1/2" BEND	100.44	98.04	2.40	
	0+088.64	200Ø – 11 1/4" BEND	100.40	98.00	2.40	
	0+093.48	200Ø x 200Ø TEE DOMESTIC WATER SERVICE	100.41	98.01	2.40	
	0+096.06	200Ø – 22 1/2" BEND	100.44	98.04	2.40	
	0+099.51	200Ø – 22 1/2" BEND	100.47	98.07	2.40	
	0+120	--	100.56	98.16	2.40	
	0+130.23	200Ø x 150Ø HYDRANT TEE	100.66	98.26	2.40	
	0+136.32	200Ø x 200Ø TEE DOMESTIC WATER SERVICE	100.82	98.42	2.40	
	0+140	--	100.85	98.45	2.40	
	0+160	--	100.88	98.48	2.40	
	0+171.94	200Ø – 11 1/4" BEND	100.97	98.57	2.40	
F	0+174.66	200Ø V&VB	100.98	98.58	2.40	
	0+177.30	200Ø x 200Ø CROSS	101.03	98.63	2.40	
	0+179.04	200Ø V&VB	101.01	98.61	2.40	
	0+182.36	200Ø CAP	100.89	98.49	2.40	
G	0+000	CONNECT TO EX. 400Ø W/M	101.05	97.80	3.25	
	0+008.79	200Ø V&VB	101.06	98.66	2.40	
	0+012.26	200Ø – 11 1/4" BEND	101.04	98.64	2.40	
	0+020	--	100.98	98.58	2.40	
F	0+043.52	200Ø x 200Ø CROSS	101.03	98.63	2.40	
	0+048.81	--	101.12	98.72	2.40	
	0+058.52	200Ø V&VB	101.22	98.82	2.40	
	0+060	--	101.23	98.83	2.40	
	0+080	--	101.41	99.01	2.40	
	0+100	--	101.73	99.33	2.40	
	0+120	--	102.23	99.83	2.40	
	0+133.36	200Ø V&VB	102.42	100.02	2.40	
D	0+137.59	200Ø x 200Ø TEE	102.42	100.02	2.40	
B	0+000	150Ø x 200Ø TEE	102.05	99.65	2.40	
	0+003	150Ø V&VB	102.09	99.69	2.40	
	0+020	--	102.33	99.93	2.40	
	0+025.62	200Ø x 150Ø TEE DOMESTIC WATER SERVICE	102.31	99.91	2.40	
I	0+028.10	150Ø CAP	102.29	99.89	2.40	

REVISED 2020-03-13