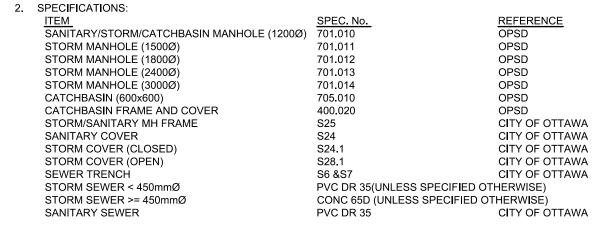
GENERAL NOTES:

- 1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 2. DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS
- 3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION. 4. BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS
- 5. RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF MUNICIPAL AUTHORITIES.
- 6. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- 7. ALL ELEVATIONS ARE GEODETIC.
- 8. REFER TO GEOTECHNICAL INVESTIGATION REPORT NO. PG2789-1R (DATED NOVEMBER 1, 2012) PREPARED BY PATERSON GROUP INC. FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
- 9. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND
- 10. REFER TO THE STORMWATER MANAGEMENT REPORT No. R-2020-044, DATED APRIL 06, 2020 PREPARED BY NOVATECH.
- 11. SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS

SEWER NOTES:

1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.



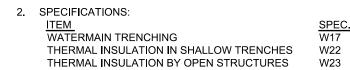
- 3. SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM THE FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0%.
- 4. ALL STORM AND SANITARY LATERALS SHALL BE EQUIPED WITH BACKFLOW PREVENTION DEVICES AS PER THE CITY OF OTTAWA STANDARD DETAILS S14 AND S14,1 OR S14.2.
- 5. PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
- 6. FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.
- 7. ALL STORM MANHOLES MANHOLES WITH PIPE SIZES LESS THAN 900mm ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED. ALL STORM MANHOLES WITH PIPE SIZES 900mm AND LARGER ARE TO BE BENCHED. 8. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS 200mm OR GREATER IN DIAMETER PRIOR TO BASE COURSE ASPHALT TO ENSURE THAT THEY ARE CLEAN AND OPERATIONAL. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES AND RE CCTV PRIOR TO ACCEPTANCE. OBTAIN APPROVAL FROM THE CITY'S SEWER OPERATIONS. PROVIDE THE CCTV INSPECTION AND REPORT TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 9. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL APPLICABLE SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS,
- SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS AND ANY ALIGNMENT CHANGES, ETC. 10. THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO TH

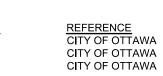
SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL

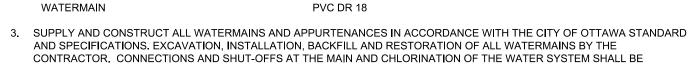
11. INSULATE ALL STORM SEWERS THAT HAVE LESS THAN 1.5m COVER PER INSULATION DETAIL FOR SHALLOW SEWERS, PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.

WATERMAIN NOTES:

1. SUPPLY AND CONSTRUCT ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.







PERFORMED BY CITY OFFICIALS. 4. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.

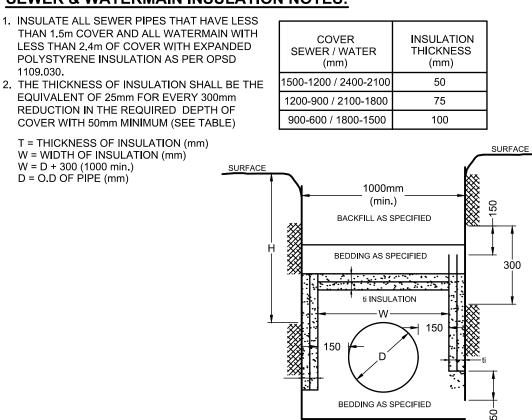
ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.

5. PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS.

6. WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.

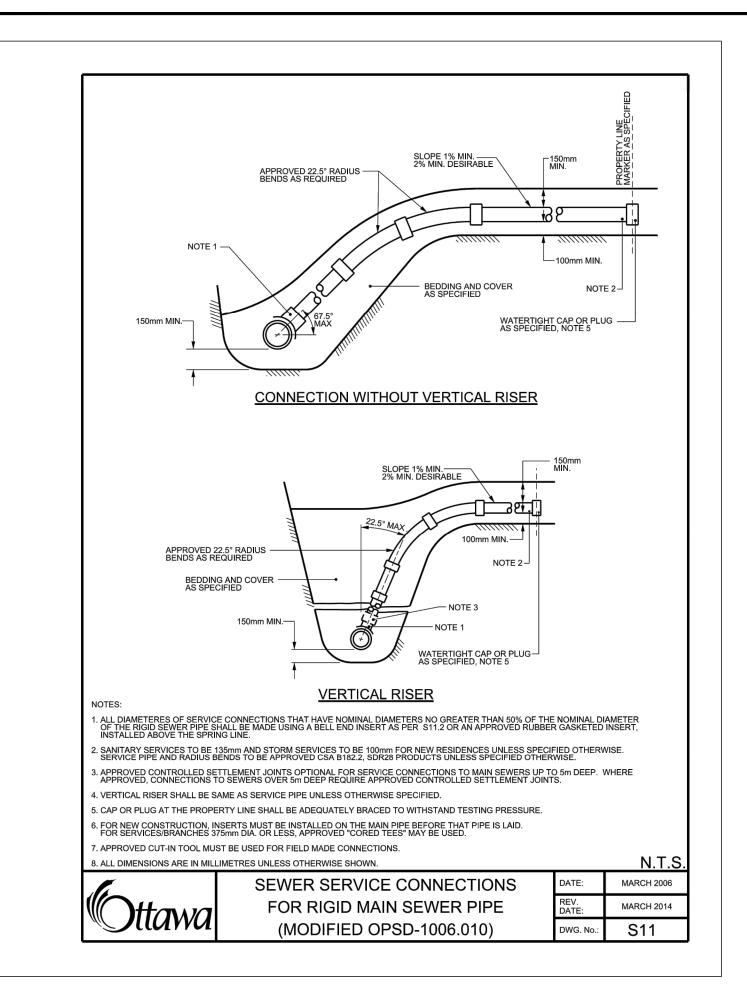
> WATERMAIN NOTES ARE APPLICABLE FOR DOMESTIC SERVICES ONLY. REFER TO NOTES AND SPECIFICATIONS PREPARED BY CIVELEC CONSULTANTS INC. FOR FIRE PROTECTION WATERMAIN REQUIREMENTS.

SEWER & WATERMAIN INSULATION NOTES:



INSULATION DETAIL FOR SHALLOW **SEWERS & WATERMAIN**

NOTE: BEDDING TO BE 300mm IN PRESENCE



PROPOSED WATERMAIN (250mmØ PRIVATE ROAD TABLE						
STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS			
1+000.0	98.10	95.64	CONNECTION TO EXISTING 250mmØ WM			
1+013.7	97.92	95.59	CROSS BELOW 200mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.79 CLEARANCE)			
1+024.9	98.59	96.19	22.5° HORIZONTAL BEND			
1+030.9	98.91	96.51	11.25° HORIZONTAL BEND			
1+058.8	99.71	97.37	CROSS BELOW 200mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.86 CLEARANCE)			
1+099.0	100.70	98.30	22.5° HORIZONTAL BEND			
1+114.4	100.86	98.46	22.5° HORIZONTAL BEND			
1+166.6	100.35	97.95	CROSS BELOW 200mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.86 CLEARANCE)			
1+213.4	100.18	97.78	250mmØ VALVE AND VALVE BOX			
1+219.4	100.20	97.80	САР			
PROPO	SED WAT	ERMAIN (25	50mmØ DIRECT SERVICE) TABLE			
STATION	SURFACE	T/WM	COMMENTS			
	ELEVATION	ELEVATION				
2+000.0	97.84	95.50	TEE CONNECTION TO 250mmØ WATERMAIN CROSS ABOVE 300mmØ SAN AS PER CITY OF			
2+003.0	97.93	95.28	OTTAWA STANDARD W25.2 (±2.10 CLEARANCE) CROSS BELOW 1800mmØ STM AS PER CITY OF			
2+006.0	97.84	93.61	OTTAWA STANDARD W25 (±0.50 CLEARANCE)			
2+006.5	97.82	93.61	11.25° HORIZONTAL BEND			
2+016.1	98.07	95.67	250mmØ VALVE AND VALVE BOX			
2+019.0	99.33	96.53	45.0° HORIZONTAL BEND			
2+021.5	99.15	96.53	250mm x 250mm x 250mm TEE			
3+000.0	97.86	95.50	TEE CONNECTION TO 250mmØ WATERMAIN CROSS ABOVE 300mmØ SAN AS PER CITY OF			
3+003.0	97.95	95.55	OTTAWA STANDARD W25.2 (±2.10 CLEARANCE) CROSS BELOW 1800mmØ STM AS PER CITY OF			
3+006.0	97.86	93.60	OTTAWA STANDARD W25 (±0.50 CLEARANCE)			
3+006.03	97.86	93.60	11.25° HORIZONTAL BEND			
3+016.2	98.09	95.69	250mmØ VALVE AND VALVE BOX			
3+018.2	98.93	96.53	45.0° HORIZONTAL BEND			
3+020.7	99.15	96.53	250mm x 250mm x 250mm TEE			
4+000.0	99.15	96.53	250mm x 250mm x 250mm TEE			
4+001.9	99.95	96.53	1500mm x 1800mm WATER METRE CHAMBER			
4+028.3	100.75	98.35	CROSS ABOVE 600mmØ STM AS PER CITY OF OTTAWA STANDARD W25.2 (±0.60 CLEARANCE)			
4+104.9	102.07	99.67	CROSS ABOVE 250mmØ SAN AS PER CITY OF OTTAWA STANDARD W25.2 (±1.65 CLEARANCE)			
4+107.5	102.07	99.67	CROSS ABOVE 1200mmØ STM AS PER CITY OF OTTAWA STANDARD W25.2 (±1.69 CLEARANCE)			
4+110.7	102.05	99.65	22.5° HORIZONTAL BEND			
4+132.9	101.77	99.37	250mm x 250mm x 100mm x TEE			
4+134.1	101.77	99.37	250mmØ VALVE AND VALVE BOX			
4+142.9	101.89	99.49	22.5° HORIZONTAL BEND			
4+148.9	101.81	98.93	CROSS BELOW 200mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)			
4+159.07	101.64	99.33	CROSS ABOVE 1050mmØ STM AS PER CITY OF OTTAWA STANDARD W25.2 (±0.50 CLEARANCE)			
4+177.4	101.42	98.97	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)			
4+212.8	101.42	98.97	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)			
4+243.7	101.42	98.97	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)			
4+276.4	101.45	98.97	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)			
4+283.8	101.55	99.07	45.0° HORIZONTAL BEND			
4+285.9	101.62	99.12	250mmØ (F.P) WM CROSSING (±0.50 CLEARANCE)			
4+288.0	101.65	99.25	45.0° HORIZONTAL BEND			
4+289.5	101.67	99.59	CROSS ABOVE 1200mmØ STM AS PER CITY OF OTTAWA STANDARD W25.2 (±0.50 CLEARANCE)			
4+317.7	101.97	99.57	HYDRANT CONNECTION			
4+320.1	101.99	99.59	HYDRANT CONNECTION			
4+322.1	102.02	99.30	CAP 1.0m FROM BUILDING FACE			
			1			

PROPOS	SED WATE	ERMAIN (250	OmmØ FIRE PROTECTION) TABLE
STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
5+010.7	101.92	99.52	250mm x 250mm x 250mm TEE
5+011.5	101.91	99.51	250mm VALVE AND VALVE BOX
5+012.7	101.90	99.50	250mm x 250mm x 250mm TEE
5+014.4	101.89	99.13	45° HORIZONTAL BEND
5+015.1	101.89	99.13	CROSS BELOW 100mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)
5+022.6	101.54	97.18	CROSS BELOW 1200mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)
5+026.8	101.42	99.02	45° HORIZONTAL BEND
5+027.2	101.42	99.00	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.56 CLEARANCE)
5+066.7	101.41	99.01	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.57 CLEARANCE)
5+098.1	101.41	99.01	HYDRANT CONNECTION
5+106.9	101.41	99.01	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.57 CLEARANCE)
5+147.1	101.41	99.01	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25. (±0.57 CLEARANCE) CROSS BELOW 375mmØ STM AS PER CITY OF
5+187.4	101.41	99.01	OTTAWA STANDARD W25 (±0.57 CLEARANCE)
5+223.4	101.41	99.01	45° HORIZONTAL BEND CROSS BELOW 900mmØ STM AS PER CITY OF
5+227.6	101.51	98.09	OTTAWA STANDARD W25. (±0.57 CLEARANCE)
5+235.7	101.63	99.23	45° HORIZONTAL BEND
5+237.7	101.63	99.23	250mm x 250mm x 200mm TEE
5+240.3	101.63	99.23	250mm VALVE AND VALVE BOX
5+242.6	101.63	99.23	250mm x 250mm x 200mm TEE
5+244.7	101.63	99.23	45° HORIZONTAL BEND CROSS BELOW 900mmØ STM AS PER CITY OF
5+252.8	101.57	98.18	OTTAWA STANDARD W25. (±0.57 CLEARANCE)
5+257.1	101.53	99.13	45° HORIZONTAL BEND CROSS BELOW 375mmØ STM AS PER CITY OF
5+275.7 5+311.1	101.41	99.01	OTTAWA STANDARD W25 (±0.57 CLEARANCE)
		99.42	45° HORIZONTAL BEND CROSS BELOW 900mmØ STM AS PER CITY OF
5+315.3 5+328.9	101.86 101.79	98.36 99.28	OTTAWA STANDARD W25 (±0.50 CLEARANCE) CROSS BELOW 250mmØ STM AS PER CITY OF
5+328.9	101.79	99.28	OTTAWA STANDARD W25. (±0.50 CLEARANCE) 45° HORIZONTAL BEND
5+369.9	101.79	99.14	CROSS BELOW 300mmØ STM AS PER CITY OF
5+372.6	101.77	99.37	OTTAWA STANDARD W25 (±0.50 CLEARANCE) HYDRANT CONNECTION
5+388.8	101,52	99.12	CROSS BELOW 200mmØ STM AS PER CITY OF
5+445.8	102.16	99.43	OTTAWA STANDARD W25 (±0.90 CLEARANCE) CROSS BELOW 250mmØ STM AS PER CITY OF
5+452.5	102.10	99.70	OTTAWA STANDARD W25 (±0.50 CLEARANCE) HYDRANT CONNECTION
5+471.2	101.99	99.09	CROSS BELOW 375mmØ STM AS PER CITY OF
5+499.0	102.06	99.66	OTTAWA STANDARD W25 (±0.50 CLEARANCE) 45° HORIZONTAL BEND
5+503.2	102.23	99.88	CROSS ABOVE 250mmØ STM AS PER CITY OF OTTAWA STANDARD W25.2 (±0.50 CLEARANCE)
5+509.1	102.40	100.00	45° HORIZONTAL BEND
5+510.5	102.38	99.98	250mm x 250mm x 200mm TEE
5+511.9	102.34	99.94	250mm VALVE AND VALVE BOX
5+513.3	102.30	99.90	250mm x 250mm x 200mm TEE
5+514.7	102.25	99.67	CROSS BELOW 150mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)
5+516.1	102.25	99.67	CROSS BELOW 100mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)
5+536.2	102.42	100.20	CROSS ABOVE 750mmØ STM AS PER CITY OF OTTAWA STANDARD W25.2 (±0.83 CLEARANCE)
5+540.6	102.27	99.87	45° HORIZONTAL BEND
5+553.5	102.06	98.65	CROSS BELOW 250mmØ SAN AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)
5+556.0	102.01	99.61	CROSS ABOVE 750mmØ STM AS PER CITY OF OTTAWA STANDARD W25.2 (±0.75 CLEARANCE)
5+580.9	101.39	98.99	45° HORIZONTAL BEND
5+584.4	101.51	99.11	HYDRANT CONNECTION
5+703.4	102.65	100.25	HYDRANT CONNECTION
5+803.6	102.30	99.90	45° HORIZONTAL BEND
5+814.9	102.62	100.22	45° HORIZONTAL BEND
5+816.9	102.60	100.20	250mm x 250mm x 200mm TEE
5+817.8	102.60	100.20	250mm VALVE AND VALVE BOX
5+818.5	102.60	100.20	250mm x 250mm x 200mm TEE
5+845.3	102.30	99.90	HYDRANT CONNECTION
5+851.43	102.05	99.65	45° HORIZONTAL BEND CROSS ABOVE 250mmØ SAN AS PER CITY OF
5+906.3	102.15	99.75	OTTAWA STANDARD W25.2 (±1.65 CLEARANCE) CROSS ABOVE 600mmØ STM AS PER CITY OF
5+909.8	102.20	99.80	OTTAWA STANDARD W25.1 (±1.68 CLEARANCE) CROSS ABOVE 1200mmØ STM AS PER CITY OF
5+921.1	102.35	99.95	OTTAWA STANDARD W25.2 (±1.37 CLEARANCE)
5+925.3	102.22	99.82	45° HORIZONTAL BEND CROSS ABOVE 100mmØ (DS) WATERMAIN
5+931.9	102.13	99.73	(±0.50m CLEARANCE) CROSS BELOW 200mmØ STM AS PER CITY OF
5+948.7	101.90	98.91	OTTAWA STANDARD W25 (±0.50 CLEARANCE) CROSS ABOVE1050mmØ STM AS PER CITY OF
5+958.9	101.68	99.29	OTTAWA STANDARD W25.2 (±0.50 CLEARANCE) CROSS BELOW 375mmØ STM AS PER CITY OF
5+977.2	101.46	98.95	OTTAWA STANDARD W25 (±0.50 CLEARANCE) CROSS BELOW 375mmØ STM AS PER CITY OF
6+012.6	101.46	98.95	OTTAWA STANDARD W25 (±0.50 CLEARANCE)
6+028.2 6+043.5	101.55 101.46	99.15 98.95	HYDRANT CONNECTION CROSS BELOW 375mmØ STM AS PER CITY OF
6+076.2	101.46	98.95	OTTAWA STANDARD W25 (±0.50 CLEARANCE) CROSS BELOW 375mmØ STM AS PER CITY OF
6+085.1	101.49	98.95	OTTAWA STANDARD W25 (±0.50 CLEARANCE) CROSS BELOW 250mmØ (DS) WATERMAIN
6+103.8	101.52	99.10	(±0.50m CLEARANCE) 45° HORIZONTAL BEND
6+108.1	101.58	99.65	CROSS ABOVE 1200mmØ STM AS PER CITY OF
6+129.6	102.01	99.05	OTTAWA STANDARD W25.2(±0.50 CLEARANCE) 45° HORIZONTAL BEND

00000		OSSING TABLE		
CROSSING	LOWER PIPE	HIGHER PIPE	CLEARANCE	
<u> </u>	250mmØ WM (F.P) OBV = 98.65	200mmØ SAN INV = 99.15	±0.50m	
2	750mmØ STM OBV = 98.61	250mmØ WM (F.P) INV = 99.36	±0.75m	
3	750mmØ STM OBV = 98.64	200mmØ SAN INV = 99.14	±0.50m	
4	150mmØ SAN OBV = 99.03	450mmØ STM INV = 99.50	±0.47m	
(5)	750mmØ STM OBV = 98.94	200mm WM (F.P) INV = 99.77	±0.83m	
6	250mmØ WM (F.P) OBV = 99.67	150mmØ STM INV = 100.17	±0.50m	
7	250mmØ WM (F.P) OBV = 99.67	150mmØ STM INV = 100,17	±0.50m	
8	750mmØ STM OBV = 99.13	200mm WM (F.P) INV = 99.63	±0.50m	
9	HYDRANT SERVICE OBV = 98.65	525mmØ STM INV = 99.15		
_			±0.50m	
	250mmØ WM (F.P) OBV = 99.14	300mmØ STM INV = 99.64	±0.50m	
0	250mmØ WM (F.P) OBV = 98.36	900mmØ STM INV = 98.86	±0.50m	
12	250mmØ WM (F.P) OBV = 98.18	900mmØ STM INV = 98.68	±0.50m	
(13)	250mmØ WM (F.P) OBV = 98.09	900mmØ STM INV =98.59	±0.50m	
14	250mmØ SAN OBV = 98.10	200mm WM (F.P) INV = 99.95	±1.85m	
(15)	250mmØ SAN OBV = 98.09	200mm WM (F.P) INV = 99.93	±1.84m	
<u> </u>	600mmØ STM OBV = 98.74	200mm WM (F.P) INV = 99.95	±1.21m	
77	600mmØ STM OBV = 98.72	200mm WM (F,P) INV = 99,96	±1.21m	
13	600mmØ STM OBV = 98.45	150mmØ SAN = 98.95	±0.50m	
19	250mmØ SAN OBV = 97.85	250mm WM (F.P) INV = 99.50	±1.65m	
	600mmØ STM OBV = 97.87	250mm WM (F.P) INV = 99.55	±1.68m	
<u>ම</u> මු	1200mmØ STM OBV = 97.73	250mm WM (D.S) INV = 99.42	±1.69m	
<u>2</u> 2	250mmØ SAN OBV = 97.74	250mm WM (D.S) INV = 99.42	±1.68m	
23	1200mmØ STM OBV = 96.75	250mmØ SAN INV = 97.29	±0.54m	
<u> </u>	600mmØ STM OBV = 97.50	250mm WM (D.S) INV = 98.10	±0.60m	
<u> </u>	300mmØ SAN OBV = 93.18	250mm WM (D.S) INV = 95.28	±2.10m	
<u> </u>	300mmØ SAN OBV = 93.17	250mm WM (D.S) INV = 95.30	±2.13m	
		` '		
<u> </u>	250mmØ WM (D.S) OBV = 93.61	1800mmØ STM INV = 94.11	±0.50m	
	250mmØ WM (D.S) OBV = 93.60	1800mmØ STM INV = 94.10	±0.50m	
29	1200mmØ STM OBV = 98.33	250mm WM (F.P) INV = 99.70	±1.37m	
39	1200mmØ STM OBV = 98.36	100mm WM (D.S) INV = 99.64	±1.28m	
31	100mmØ WM (D.S) OBV = 98.98	250mm WM (F.P) INV = 99.48	±0.50m	
32	1050mmØ STM OBV = 98.54	250mm WM (D.S) INV = 99.04	±0.50m	
33	1050mmØ STM OBV = 98.58	250mm WM (D.S) INV = 99.08	±0.50m	
<u>3</u> 4	1200mmØ STM OBV = 98.66	HYD. SERVICE INV = 99.63	±0.50m	
<u> </u>	1200mmØ STM OBV = 98.84	250mm WM (D.S) INV = 99.34	±0.50m	
<u> </u>	250mmØ WM (F.P) OBV = 98.37	250mm WM (D.S) INV = 98.87	±0.50m	
_ =				
37	250mmØ WM (F.P) OBV = 99.48	100mmØ STM INV = 100.43	±0.95m	
	1200mmØ STM OBV = 98.903	250mm WM (F.P) INV = 99.40	±0.50m	
<u> </u>	250mmØ WM (F.P) OBV = 99.13	100mmØ STM INV = 99.64	±0.50m	
40	250mmØ WM (F.P) OBV = 97.18	1200mmØ STM INV = 97.68	±0.50m	
41	HYDRANT SERVICE OBV = 97.57	975mmØ STM INV = 98.07	±0.50m	
42	250mmØ WM OBV = 95.59	200mmØ STM INV = 96.38	±0.79m	
43	250mmØ SAN OBV = 94.04	200mmØ STM INV = 96.35	±2.31m	
44)	250mmØ WM OBV = 97.37	200mmØ STM INV = 98.23	±0.86m	
45	250mmØ SAN OBV = 94.15	200mmØ STM INV = 98.20	±4.05m	
46	250mmØ WM OBV = 97.95	200mmØ STM INV = 98.81	±0.86m	
47	250mmØ SAN OBV = 94.63	200mmØ STM INV = 98.78	±4.15m	
48	250mmØ SAN OBV = 99.11	250mmØ STM INV = 100.58	±1.47m	
49	250mmØ SAN OBV = 99.03	250mmØ STM INV = 100.63	±1.60m	
60	250mmØ WM (F.P) OBV = 99.05	375mmØ STM INV = 99.55	±0.50m	
61	250mmØ WM (F.P) OBV = 99.09	375mmØ STM INV = 99.59	±0.50m	
<u>6</u> 2	250mmØ WM (F.P) OBV = 99.43	250mmØ STM INV = 99.93	±0.50m	
<u> </u>	250mmØ WM (F.P) OBV = 99.12	200mmØ STM INV = 100.02	±0.90m	
64	250mmØ SAN OBV = 101.72	200mmØ STM INV = 102.27	±0.50m	
65)	250mmØ WM (F.P) OBV = 99.28	250mmØ STM INV = 102.27	±0.50m	
66	250mmØ WM (F.P) OBV = 99.01	375mmØ STM INV = 99.58	±0.57m	
<u> </u>	250mmØ WM (F.P) OBV = 99.01	375mmØ STM INV = 99.58	±0.57m	
<u> </u>	250mmØ WM (F.P) OBV = 99.01	375mmØ STM INV = 99.58	±0.57m	
	250mmØ SAN OBV = 98.06	200mmØ STM INV = 100.60	±2.54m	
60	250mmØ SAN OBV = 97.96	200mmØ STM INV = 100.55	±2.59m	
60	250mmØ SAN OBV = 97.83	200mmØ STM INV = 100.20	±2.37m	
62	250mmØ SAN OBV = 97.39	200mmØ STM INV = 99.07	±1.68m	
<u> </u>	250mmØ SAN OBV = 96.95	200mmØ STM INV = 97.62	±0.67m	
<u> </u>	250mmØ SAN OBV = 96.67	200mmØ STM INV = 98.13	±1.46m	
65				
	250mmØ SAN OBV = 96.08	200mmØ STM INV = 97.46	±1.38m	
6	250mmØ SAN OBV = 95.63	200mmØ STM INV = 96.54	±0.91m	
67	250mmØ WM (F.P) OBV = 98.91	200mmØ STM INV = 99.41	±0.50m	
68	250mmØ WM (D.S) OBV = 98.93	200mmØ STM INV = 99.43	±0.50m	
69	250mmØ WM (F.P) OBV = 98.95	375mmØ STM INV = 99.45	±0.50m	
70	250mmØ WM (D.S) OBV = 98.97	375mmØ STM INV = 99.47	±0.50m	
<u> </u>	250mmØ WM (F.P) OBV = 98.95	375mmØ STM INV = 99.45	±0.50m	
72	250mmØ WM (D.S) OBV = 98.97	375mmØ STM INV = 99.47	±0.50m	
<u> </u>	250mmØ WM (F.P) OBV = 98.95			
	· ,	375mmØ STM INV = 99.45	±0.50m	
<u> </u>	250mmØ WM (D.S) OBV = 98.97	375mmØ STM INV = 99.47	±0.50m	
79	250mmØ WM (F.P) OBV = 98.95	375mmØ STM INV = 99.45	±0.50m	
76	250mmØ WM (D.S) OBV = 98.97	375mmØ STM INV = 99.47	±0.50m	
77	250mmØ WM (F.P) OBV = 99.02	375mmØ STM INV = 99.58	±0.56m	
73	250mmØ WM (F.P) OBV = 99.01	375mmØ STM INV = 99.58	±0.57m	
	250mmØ WM (F.P) OBV = 99.01	375mmØ STM INV = 99.58	±0.57m	
7 9	230111119 WW (1.1) OBV = 33.01			

NOT FOR CONSTRUCTION

				SCALE	DESIGN	
					MJH/ARM CHECKED	
				AS SHOWN	JLS	
					DRAWN MJH/ARM	
					CHECKED	
		100000			JLS	
1	APPLICATION FOR SITE PLAN APPROVAL	APR 9/2020	MJH		APPROVED	_(
No.	REVISION	DATE	BY		JLS	`







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LOCATION PROJECT PYTHON 222 CITIGATE DRIVE, CITY OF OTTAWA

DRAWING NAME NOTES AND DETAILS GENERAL PLAN OF SERVICES

REV #1 120025-NDGP

120025

THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS 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, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR

DAMAGE TO THEM.