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 DRAWING.
- 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 \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
- 5. COMPLETE ALL WORKS IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS USING THE CURRENT GUIDELINES, BYLAWS AND STANDARDS INCLUDING MATERIALS OF CONSTRUCTION, DISINFECTION AND ALL RELEVANT REFERENCES TO OPSS, OPSD & AWWA GUIDELINES - ALL CURRENT VERSIONS AND 'AS AMENDED'.
- 6. 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 THE CITY OF OTTAWA AND ENGINEER.
- 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. 8. ALL ELEVATIONS ARE GEODETIC.
- 9. REFER TO THE GEOTECHNICAL INVESTIGATION REPORT (NO. PG4811-1, REV. 1, DATED MAY 31, 2021) 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.
- 10. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACED AREAS AND DIMENSIONS.
- 11. REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT' (R-2020-059) PREPARED BY NOVATECH. 12. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS
- (R10). 13. PROVIDE LINE/PARKING PAINTING.
- 14. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A SERVICING PLAN OF 119171-GP INDICATING ALL SERVICING AS-BUILT INFORMATION SHOWN ON THE SERVICING PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS. SLOPES. INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, T/WM ELEVATIONS AND ANY ALIGNMENT CHANGES. ETC.

REFERENCE OPSD

CITY OF OTTAWA

OPSD OPSD OPSD

OPSD

OPSD

SEWER NOTES:

2 SPECIFICATION

ITEM CATCHBASIN

CB. FRAME &

1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS - ALL CURRENT VERSIONS AND 'AS AMENDED'.

SPECIFICATIONS:	
ITEM_	SPEC. No.
CATCHBASIN (600x600mm)	705.010
STORM / SANITARY MANHOLE (1200mmØ)	701.010
STORM / CATCHBASIN MANHOLE (1800mmØ)	701.012
CB, FRAME & COVER	400.020
STORM / SANITARY MH FRAME & COVER	401.010
WATERTIGHT MH FRAME AND COVER	401.030

- SEWER TRENCH SANITARY / STORM SEWER / CB LEAD PVC DR 35
- STORM SUPER-PIPE (1.0m DIAMETER AND OVER) CONCRETE 65-D THE WEEPING TILE SERVICE SHALL BE EQUIPPED WITH A BACKFLOW PREVENTION DEVICE AS PER THE CITY OF OTTAWA STANDARD DETAIL S18, AS INDICATED ON THE PLAN 119171-GP.
- 4. INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 1.5m COVER WITH HI-40 INSULATION PER INSULATION DETAIL FOR SHALLOW SEWERS. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
- 5. SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0%.
- 6. 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. 7. 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. 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 THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
- TYPICAL STORM MANHOLES AND CATCHBASIN MANHOLES ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED.
- ALL CATCHBASINS ARE TO HAVE 600mm SUMPS UNLESS OTHERWISE INDICATED. 10. ALL CATCHBASINS, MANHOLES AND/OR CATCHBASIN MANHOLES THAT ARE TO HAVE ICD'S INSTALLED WITHIN THEM ARE
- TO HAVE 600mm SUMPS. 11. ALL WEEPING TILE CONNECTIONS TO BE MADE TO THE PROPOSED STORM SEWER SYSTEM DOWNSTREAM OF ANY INLET CONTROL DEVICES.
- 12. THE CONTRACTOR IS TO TELEVISE (CCTV) ALL PROPOSED SEWERS, 200mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT, UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES. PROVIDE A COPY OF ALL CCTV INSPECTION REPORTS TO THE ENGINEER FOR REVIEW

GRADING NOTES:

- ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS AS DIRECTED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER
- EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF GRANULARS.
- ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST
- 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
- 5. MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED. 6. MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
- 7. ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
- 8. ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1.1).
- 9. REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS. 10. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING AS-BUILT ELEVATIONS OF ALL DESIGN GRADES SHOWN ON PLAN 119171-GR.

PAVEMENT STRUCTURES



THE RECEIVING WATERCOURSE. DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY

- SHOULD INCLUDE AS A MINIMUM THOSE MEASURES INDICATED ON THE PLAN.
- SHALL BE SOLELY RESPONSIBLE FOR MEETING ALL REGULATORY AGENCY REQUIREMENTS.
- AS POSSIBLE AND PROTECT EXPOSED SLOPES WITH NATURAL OR SYNTHETIC MULCHES.
- DAYS

- REGULATORY AGENCY.
- AND EXPOSED SOILS. USE CHEMICAL DUST SUPPRESSANTS ONLY WHERE NECESSARY ON PROBLEM AREAS.

WATERMAIN NOTES

- WATER SYSTEM SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE CITY OF OTTAWA FORCES. 2. SPECIFICATIONS:
- ITEM WATERMAIN TRENCHING HYDRANT INSTALLATION THERMAL INSULATION IN SHALLOW TRENCHES W22 THERMAL INSULATION AT OPEN STRUCTURES W23 VALVE BOX ASSEMBLY W24 WATERMAIN CROSSING BELOW SEWER W25 WATERMAIN CROSSING OVER SEWER W25.2 DISTRICT METERING CHAMBER W3.3
- WATERMAIN MATERIAL PARK WATER SERVICE MATERIAL
- 3. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.

Erosior	and Sedime	ent Contro	l Responsib	ilities:					
				During Construction			After Construction Price	After Final Acceptance	
	ESC Measure	Symbol	Specification	Installation Responsibility	Inspection/Maintenance Responsibility	Inspection Frequency	Approval to Remove	Removal Responsibility	Inspection/Maintenance Responsibility
	Silt Fence (Light Duty)	, ,	OPSD 219.110	Developer's Contractor	Developer's Contractor	Weekly (as a minimum)	Consultant	Developer's Contractor	N/A
Temporary Measures	Filter Bags	Location as Indicated in ESC Note #3	Erosion and Sediment Control Notes	Developer's Contractor	Developer's Contractor	Weekly (as a minimum)	Consultant	Developer's Contractor	N/A
	Mud Mat	ММ	Drawing Details	Developer's Contractor	Developer's Contractor	Weekly (as a minimum)	Developer's Contractor	Developer's Contractor	N/A
	Dust Control	Location as Required Around Site	Erosion and Sediment Control Notes	Developer's Contractor	Developer's Contractor	Weekly (as a minimum)	Consultant	Developer's Contractor	N/A
	Stabilized Material Stockpiling	Location as Required by Contractor	Erosion and Sediment Control Notes	Developer's Contractor	Developer's Contractor	Weekly (as a minimum)	Developer's Contractor	Developer's Contractor	N/A
	Sediment Basin (for flows being pumped out of excavations)	Location as Required by Contractor		Developer's Contractor	Developer's Contractor	After Every Rainstorm	Developer's Contractor	Developer's Contractor	N/A

CRITICAL SEWER PIPE CROSSING TABLE						
CROSSING	LOWER PIPE	HIGHER PIPE	CLEARANCE	SURFACE ELEVATION		
A	375mmØ STM OBV=60.03	250mmØ SAN INV=61.51	± 1.5m	64.58 m		
B	300mmØ STM OBV=60.86	200mmØ SAN INV=61.87	± 1.0m	64.93 m		
©	1050mmØ STM OBV=61.05	150mmØ U/S WM=61.45	± 0.3m	63.67 m		
D	250mmØ SAN OBV=60.95	150mmØ U/S WM=61.45	± 0.5m	63.69 m		
E	1050mmØ STM OBV=63.45	150mmØ U/S WM=64.25	± 0.7m	66.85 m		
Ē	250mmØ SAN OBV=63.30	150mmØ U/S WM=64.25	± 0.95m	66.80 m		
+ SEE 110171 CD DI AN EOD SEIVED CROSSING LOCATIONS A and B on SEWERS + C. D. E and E on WATERMAIN						

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.

EROSION AND SEDIMENT CONTROL NOTES

THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND

1. ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA THEY ARE TO BE APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION. ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION. THESE PRACTICES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL AND 2. EROSION AND SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED DURING CONSTRUCTION IN ACCORDANCE WITH THE "GUIDELINES

ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES" (GOVERNMENT OF ONTARIO, MAY 1987). THE CONTRACTOR 3. TO PREVENT SURFACE EROSION FROM ENTERING ANY STORM SEWER SYSTEM DURING CONSTRUCTION, FILTER BAGS WILL BE PLACED

UNDER GRATES OF NEARBY CATCHBASINS AND STRUCTURES. A LIGHT DUTY SILT FENCE BARRIER WILL ALSO BE INSTALLED AROUND THE CONSTRUCTION AREA (WHERE APPLICABLE), THESE CONTROL MEASURES WILL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE 4. TO LIMIT EROSION: MINIMIZE THE AMOUNT OF EXPOSED SOILS AT ANY GIVEN TIME, RE-VEGETATE EXPOSED AREAS AND SLOPES AS S

5. FOR MATERIAL STOCKPILING: MINIMIZE THE AMOUNT OF EXPOSED MATERIALS AT ANY GIVEN TIME; APPLY TEMPORARY SEEDING, TARF COMPACTION AND/OR SURFACE ROUGHENING AS REQUIRED TO STABILIZE STOCKPILED MATERIALS THAT WILL NOT BE USED WITHIN

6. THE SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED WHEN, IN THE OPINION OF THE ENGINEER, THE MEASURES ARE NO

LONGER REQUIRED. NO CONTROL MEASURES MAY BE PERMANENTLY REMOVED WITHOUT PRIOR AUTHORIZATION FROM THE ENGINEE 7. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO ANY

STORM SEWER SYSTEM APPROPRIATE RESPONSE MEASURES. INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.

8. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYST AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICAT

9. ROADWAYS ARE TO BE SWEPT AS REQUIRED OR AS DIRECTED BY THE ENGINEER AND/OR THE MUNICIPALITY.

10. THE CONTRACTOR SHALL ENSURE PROPER DUST CONTROL IS PROVIDED WITH THE APPLICATION OF WATER (AND IF REQUIRED, CAL CHLORIDE) DURING DRY PERIODS MONITOR DUST LEVELS DURING SITE PREPARATION/EXCAVATION, AND CONSTRUCTION ACTIVITIE AND WHEN DUST LEVELS BECOME VISUALLY APPARENT SPRAY WATER TO MINIMIZE THE RELEASE OF DUST FROM GRAVEL, PAVED ARE

1. SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND

SPECIFICATIONS - ALL CURRENT VERSIONS AND 'AS AMENDED'. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMAINS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY OF OTTAWA FORCES. CHLORINATION OF T

SPEC. No.	REFERENCE
W17	CITY OF OTTAWA
W19	CITY OF OTTAWA
W22	CITY OF OTTAWA
W23	CITY OF OTTAWA
W24	CITY OF OTTAWA
W25	CITY OF OTTAWA
W25.2	CITY OF OTTAWA
W3.3	CITY OF OTTAWA
PVC DR 18	

PEX / TYPE 'K' SOFT COPPER

4. PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS, WHERE POSSIBLE UNLESS OTHERWISE INDICATION IN THE POSSIBLE INTERVIDATION IN THE POSSIBLE UNLESS OTHERWISE INDICATION IN THE POSSIBLE UNLESS OTHERWISE INDICATION IN THE POSSIBLE UNLESS OTHERWISE INTERVIDATION INTERVIDE INTERVIDE INTERVIDE INTERVIDATION INTERVIDE INTERVIDE INTERVIDE INTERVIDATION INTERVIDE INTERVIDATION INTERVIDO 5. WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.

> SWM TANK 7 ANCHOR CONCRETE for APPROVED EQUIVALENT 45.000L (3000mm x 6150mm) c/w INTERNAL BLUESKIN TANK PIPE 300mmØ PVC WATERPROOFING MAINTENANCE ACCES c/w ALUMINIUM LADDER

> > T/G=65.10m

	4+020.8	69.28	66.88	CROSS BELOW EX. BELL DUCT (±1.5m CLEARANCE)
E.	4+021.8	69.27	66.87	CROSS BELOW EX. COMMS DUCT (±1.5m CLEARANCE)
SOON	4+022.1	69.27	66.87	22.5° HORIZONTAL BEND
	4+023.1	69.26	66.86	250mmØ VALVE & VALVE BOX @ PROPERTY LINE
RPS, 14	4+028.2	69.05	66.65	250 x 250 x 250 TEE
	4+050	68.05	65.65	
	4+075	67.15	64.75	
ER.	4+095.8	66.25	63.85	150 x 250 x 250 BUILDING SERVICE TEE
Y	4+097.1	66.19	63.79	250mmØ VALVE & VALVE BOX
	4+098.3	66.13	63.73	150 x 250 x 250 BUILDING SERVICE TEE
ΓEM	4+119.5	65.15	61.64 ***	CROSS BELOW 250mmØ STM [Inv=63.03m] (±1.4m CLEARANCE)
	4+121.0	65.10	61.49 ***	CROSS BELOW 200mmØ SAN [Inv=61.99m] (±0.5m CLEARANCE)
DLE	4+125	64.93	61.80	
	4+132.9	64.80	62.40	22.5° HORIZONTAL BEND
	4+136.6	64.70	62_30 ***	CROSS ABOVE 200mmØ STM [Obv=60.77m] (±1.3m CLEARANCE)
LCIUM S,	4+140.6	64.56	62.16	22.5° HORIZONTAL BEND
REAS	4+150	64.10	61.70	
	4+164.1	63.78	61.68 **	45° HORIZONTAL BEND
	4+165.5	63.77	61.67 **	45° HORIZONTAL BEND
	4+166.9	63.74	61.64 **	150mmØ HYDRANT TEE
	4+168.5	63.73	61.63 **	45° HORIZONTAL BEND
ΉE	4+169.9	63.71	61.61 **	45° HORIZONTAL BEND
	4+171.4	63.70	61.60 **	150 x 250 x 250 BUILDING SERVICE TEE
	4+172.6	63.69	61.59 **	250mmØ VALVE & VALVE BOX
	4+173.9	63.68	61.58 **	150 x 250 x 250 BUILDING SERVICE TEE
	4+175.5	63.66	61.57 **	INSULATE IN PROXIMITY TO OPEN STRUCTURE
	4+197.2	64.48	62.08	250 x 250 x 250 TEE (5+000)
	4+199.8	64.50	62.15 ***	CROSS ABOVE 200mmØ STM [Obv=60.70m] (±1.2m CLEARANCE)
	4+203.3	64.65	62.20 **	250 x 250 x 250 TEE (5+102.5)
	4+204.8	64.68	62.18 **	250mmØ VALVE & VALVE BOX
	4+212.5	64.93	61.40 ***	CROSS BELOW 200mmØ SAN [Inv=61.90m] (±0.5m CLEARANCE)
	4+214.0	64.96	61.52 ***	CROSS ABOVE 250mmØ STM [Obv=60.87m] (±0.4m CLEARANCE)
TED.	4+225	65.43	62.43	
	4+239.5	66.12	63.72	150mmØ HYDRANT TEE
	4+242.5	66.17	63.77 **	INSULATE IN PROXIMITY TO OPEN STRUCTURE
	4+252.0	66.70	64.30 ***	CROSS ABOVE 200mmØ STM [Obv=62.92m] (±1.1m CLEARANCE)
	4+254.1	66.80	64.40	150 x 250 x 250 BUILDING SERVICE TEE

SURFACE

69.93±

70.10

70.12

70.05

69.90

69.75

69.30

69.29

ELEVATION ELEVATION

STATION

4+000

4+002.8

4+005.4

4+008.0

4+010.4

4+018.0

4+020.0

4+006.7

T/WM

67.50 🍍

67.45

66.34

66.34

67.35

66.90

66.89

4+203.3	64.65	62.20 **	250 x 250 x 250 TEE (5+102.5)
4+204.8	64.68	62.18 **	250mmØ VALVE & VALVE BOX
4+212.5	64.93	61.40 ***	CROSS BELOW 200mmØ SAN [Inv=61.90m] (±0.5m CLEARANCE)
4+214.0	64.96	61.52 ***	CROSS ABOVE 250mmØ STM [Obv=60.87m] (±0.4m CLEARANCE)
4+225	65.43	62.43	
4+239.5	66.12	63.72	150mmØ HYDRANT TEE
4+242.5	66.17	63.77 **	INSULATE IN PROXIMITY TO OPEN STRUCTURE
4+252.0	66.70	64.30 ***	CROSS ABOVE 200mmØ STM [Obv=62.92m] (±1.1m CLEARANCE)
4+254.1	66.80	64.40	150 x 250 x 250 BUILDING SERVICE TEE
4+255.4	66.85	64.45	250mmØ VALVE & VALVE BOX
4+256.6	66.90	64.50	150 x 250 x 250 BUILDING SERVICE TEE
4+262.6	67.30	64.90	22.5° HORIZONTAL BEND
4+268.6	67.50	65.10	22.5° HORIZONTAL BEND
4+275	67.80	65 <u>.</u> 40	
4+300	68.75	66 <u>.</u> 35	
4+305.7	69.05	66.65	250 x 250 x 250 TEE
4+308.7	69.15	66.75	22.5° HORIZONTAL BEND
4+313.3	69.35	66.95	DISTRICT METER AREA CHAMBER @ PROPERTY LINE
4+317.5	69.48	67.08	50 x 250 x 250 PARK SERVICE TEE
4+319.5	69.57	67.17	45° HORIZONTAL BEND
4+323.9	69.87	67.19	CROSS BELOW EX. COMMS DUCT (±1.5m CLEARANCE)

PROPOSED 250mmØ WATERMAIN TABLE - EAST / WEST SITE LOOP

COMMENTS

TEE CONNECTION TO NEW 300mmØ WATERMAIN EXTENSION

22.5° VERTICAL BEND

22.5° VERTICAL BEND

22.5° VERTICAL BEND

22.5° HORIZONTAL BEND

CROSS BELOW EX. BELL DUCT (±1.2m CLEARANCE)

22.5° VERTICAL BEND

66.34 *** CROSS BELOW EX.600mmØ WM [U/S=67.34m] (±1.0m CLEARANCE)

67.25± * CONNECTION TO EX.150mmØ WM T.V.S. with 250x150 REDUCER 4+328.6 70.02 CONNECTIONS TO EXISTING 150mmØ and NEW 300mmØ WATERMAINS. EXACT ELEVATIONS TO BE FIELD DETERMINED. ** PROVIDE THERMAL INSULATION AS PER CITY OF OTTAWA DETAILS W22 IN SHALLOW TRENCHES WHERE COVER IS LESS THAN 2.4m AND/OR W23 ADJACENT TO OPEN STRUCTURES. *** PIPE CROSSINGS WITH WATERMAINS ARE TO BE IN ACCORDANCE WITH CITY STANDARDS W25 AND

CROSS BELOW EX. BELL DUCTS (±1.6m CLEARANCE)

22.5° HORIZONTAL BEND

PROPOSED 250mmØ WATERMAIN TABLE - NORTH / SOUTH SITE LOOP					
STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS		
5+000	64.48	62.08	250 x 250 x 250 TEE (4+197.2)		
5+001.0	64.46	62.10 **	250mmØ VALVE & VALVE BOX		
5+002.5	64.45	** 62.10 ***	CROSS ABOVE 300mmØ STM [Obv=60.10m] (±1.75m CLEARANCE)		
5+004.5	64.45	** 62.15 ***	CROSS ABOVE 250mmØ SAN [Obv=61.62m] (±0.3m CLEARANCE)		
5+005.6	64.45	62.15 **	22.5° HORIZONTAL BEND		
5+008.0	64.43	62.03	22.5° HORIZONTAL BEND		
5+009.5	64.40	62.10	150mmØ HYDRANT TEE		
5+025	64.05	61.65 **			
5+040.4	63.72	61.32 ***	CROSS BELOW 200mmØ STM [Inv=61.91m] (±0.6m CLEARANCE)		
5+048.3	63.76	61.26	45° HORIZONTAL BEND		
5+049.3	63.75	61.25	150mmØ HYDRANT TEE		
5+049.7	63.75	61.25	45° HORIZONTAL BEND		
5+050.6	63.60	61.20	250mmØ VALVE & VALVE BOX		
5+051.4	63.60	61.20 ***	CROSS ABOVE 375mmØ STM [Obv=59.58m] (±1.35m CLEARANCE)		
5+052.9	63.60	61.20	45° HORIZONTAL BEND		
5+054.3	63.58	61.18	45° HORIZONTAL BEND		
5+062.3	63.53	61.13 **	INSULATE IN PROXIMITY TO OPEN STRUCTURE		
5+075	63.88	61.48			
5+078.8	64.08	61.68 ***	CROSS ABOVE 200mmØ STM [Obv=59.83m] (±1.6m CLEARANCE)		
5+091.9	64.50	62.10	150 x 250 x 250 BUILDING SERVICE TEE		
5+093.2	64.55	62.15	250mmØ VALVE & VALVE BOX		
5+094.4	64.60	62.20	150 x 250 x 250 BUILDING SERVICE TEE		
5+098.0	64.66	62.32 ***	CROSS ABOVE 250mmØ SAN [Obv=61.82m] (±0.25m CLEARANCE)		
5+100.0	64.66	62.25 ***	CROSS ABOVE 300mmØ STM [Obv=60.55m] (±1.45m CLEARANCE)		
5+102.5	64.65	62.20	250 x 250 x 250 TEE (4+203.3)		

* CONNECTIONS TO EXISTING 150mmØ and NEW 300mmØ WATERMAINS. EXACT ELEVATIONS TO BE FIELD DETERMINED. ****** PROVIDE THERMAL INSULATION AS PER CITY OF OTTAWA DETAILS W22 IN SHALLOW TRENCHES WHERE COVER IS LESS THAN 2.4m AND/OR W23 ADJACENT TO OPEN STRUCTURES.



OUTLET

▼ ^{1:5yr = 63.03m}

INSIDE BOTTOM

69.90

69.93

W25.2 TO AVOID CONFLICTS, WHERE POSSIBLE.

67.20

67.23

4+325.3

4+326.1

(INSIDE BOTTOM OF TANK) 62.75m (UNDERSIDE OF TANK) 62.55m

ALUMINIUM ACCES RUNGS ON WEST WALL

OWNER INFORMATION
2 ROBINSON AVENUE LIMITED PARTNERSHIP
88 ALBERT STREET
OTTAWA, ONTARIO, K1P 5E9
CONTACT: MR. KIERAN WAUGH
PHONE: (416) 903-1377

EMAIL: kwaugh@placedoree.com

(INSIDE BOTTOM OF TANK) 60.70m

(UNDERSIDE OF TANK) 60.50m

				SCALE
6	REVISED PER CITY COMMENTS	JAN 19/24	FST	NOT TO SCALE
5	RE-ISSUED FOR SITE PLAN APPROVAL	MAR 1/23	FST	
4	RE-ISSUED FOR SITE PLAN APPROVAL	JAN 10/23	FST	
3	RE-ISSUED FOR SITE PLAN APPROVAL	OCT 07/22	FST	
2	REVISED PER CITY COMMENTS / UPDATED SITE PLAN	MAR 30/21	FST	
1	ISSUED FOR SITE PLAN APPROVAL	NOV 15/21	FST	
No.	REVISION	DATE	BY	







1:2 YR





DESIGN EVENT 1:2 YR







