

**NOTES:**  
**GENERAL**

- COORDINATES ARE IN MTM ZONE 9 (76°30' WEST LONGITUDE) NAD-83 (ORIGINAL)
- OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA PRIOR TO STARTING CONSTRUCTION
- SERVICES ARE TO BE CONSTRUCTED TO 2.0m FROM FACE OF BUILDING.
- REFER TO FUNCTIONAL SITE SERVICING AND STORMWATER MANAGEMENT DESIGN BRIEF, 1354 AND 1376 CARLING AVENUE DEVELOPMENT - PHASE 2 PREPARED BY MORRISON HERSHFIELD FOR SITE SERVICING REPORT
- REFER TO GEOTECHNICAL INVESTIGATION REPORT (NO. PG3736-1 DATED APRIL 12, 2018) PREPARED BY PATERSON GROUP FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT SHALL REVIEW EXCAVATIONS PRIOR TO THE PLACEMENT OF GRANULAR MATERIAL.
- CONTRACTOR TO VERIFY ALL EXISTING UTILITY ELEVATIONS AT CONNECTION AND CROSSING LOCATIONS PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DISCREPANCIES.
- UNLESS DIRECTED OTHERWISE ANY DAMAGED ASPHALT OR CURB (REGARDLESS OF WHETHER WITHIN OR EXTERNAL TO THE SITE) SHALL BE REINSTATED IN ACCORDANCE WITH CITY STD. DET. R10 AND S1.
- UNLESS DIRECTED OTHERWISE THE CONTRACTOR SHALL REINSTATE ALL SIGNS, LIGHTING AND OTHER STREET FURNITURE DISTURBED BY THE WORK.
- THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT TRAFFIC MANAGEMENT PLANS FOR WORK IN RIGHT OF WAY IN ACCORDANCE WITH OTM BOOK 7.
- CLAY SEALS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL S8 AND SHALL BE INSTALLED AT 50m INTERVALS IN ALL PIPE TRENCHES. CLAY SEAL TO EXTEND FULL TRENCH WIDTH AND FROM BOTTOM OF TRENCH EXCAVATION TO UNDERSIDE OF ROAD STRUCTURE, WITH A MINIMUM THICKNESS OF 1m ALONG PIPE.
- LOCATE AND CAP ANY EXISTING STORM, SANITARY AND WATER SERVICES AT THE PROPERTY LINE. ABANDON EXISTING SERVICES WITHIN THE R.O.W. PER STANDARD CITY OF OTTAWA DETAIL S11.4. (TYPICAL)
- SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL PRECAST STRUCTURE, GRATES & COVERS, TRENCH DRAINS.

**SEWERS**

- ALL STORM SEWERS, SANITARY SEWERS AND CATCH BASINS LEADS SHALL BE PVC DR 35 UNLESS OTHERWISE SPECIFIED.
- REFER TO APPROPRIATE CITY STANDARD DETAILS FOR SEWER INSTALLATION.
- ALL SEWER MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE 2021 EDITION OF THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND STANDARD DRAWINGS. PVC PIPE TO BE CLASS 150 DR18 TO LATEST EDITION OF A.W.W.A. SPECIFICATION C900 AND CSA B137.3 LATEST AMENDMENT WITH GASKETED BELL AND SPIGOT COUPLINGS.
- MAINTENANCE HOLES AND CATCH BASIN MAINTENANCE HOLES ON STORM SEWERS LESS THAN 900mm DIAMETER SHALL BE CONSTRUCTED WITH A 300mm SUMP. BENCHING SHALL BE INSTALLED IN MAINTENANCE HOLES ON STORM SEWERS 900mm AND ABOVE.
- STORM SEWER MAINTENANCE HOLE COVERS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL S24.1 ON FRAMES TO DETAIL S25.
- CONTRACTOR SHALL MAINTAIN EXISTING SEWER FLOWS DURING CONSTRUCTION IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS.
- ALL MAINTENANCE HOLES, CATCHBASINS AND CLEANOUTS SHALL BE ADJUSTED TO POST-CONSTRUCTION GRADE.
- CCTV INSPECTION OF ALL SEWERS SHALL BE COMPLETED AS PER CITY OF OTTAWA SPECIFICATIONS PRIOR TO THE INSTALLATION OF BASE COURSE ASPHALT.
- BACKWATER VALVES SHALL BE INSTALLED ON NEW STORM AND SANITARY SERVICES AS PER CITY OF OTTAWA STANDARD DETAILS S14, S14.1, S14.2.

**WATERMANS**

- ALL WATERMAIN MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE 2021 EDITION OF THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND STANDARD DRAWINGS. PVC PIPE TO BE CLASS 150 DR18 TO LATEST EDITION OF A.W.W.A. SPECIFICATION C900 AND CSA B137.3 LATEST AMENDMENT WITH GASKETED BELL AND SPIGOT COUPLINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER PERMIT AS REQUIRED FROM THE CITY OF OTTAWA, AND COMPLYING WITH ALL CITY OF OTTAWA REQUIREMENTS. THE CITY MAY REQUIRE THAT CERTAIN ACTIVITIES (E.G. VALVE OPERATION, CONNECTION OF NEW WATER SERVICE TO EXISTING WATERMAIN, DISINFECTION) BE CARRIED OUT ONLY BY CITY FORCES.
- ALL VALVES 300mm DIAMETER AND SMALLER SHALL INCLUDE A VALVE BOX AS PER W24.
- THE NEW WATERMAIN IS TO BE INSTALLED WITH A MINIMUM OF 2.4m COVER (INCLUDING HYDRANT LEAD). WHERE 2.4m COVER IS NOT POSSIBLE, PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAILS W22 & W23.
- THRUST RESTRAINT SHALL BE PROVIDED BY BOTH RESTRAINING/RETAINING RINGS AND THRUST BLOCKS AT ALL DEAD END CAPS, PLUGS, VALVES, BENDS AND REDUCERS AS PER CITY OF OTTAWA STANDARD DETAILS W25.3, W25.4, W25.5 AND W25.6. ALL TEMPORARY THRUST RESTRAINTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- TRACER WIRE SHALL BE PROVIDED FOR ALL NEW PVC WATERMANS IN ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAIL W36.
- CATHODIC PROTECTION SHALL BE PROVIDED FOR ALL NEW WATERMANS IN ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAILS W39, W40, W41, W42 AND W47. CATHODIC PROTECTION OF EXISTING WATERMANS SHALL ALSO BE PROVIDED AT CONNECTIONS BETWEEN EXISTING AND NEW WATERMANS.
- ADJUST ALL VALVE CHAMBERS, VALVE BOXES AND HYDRANTS TO FINISHED GRADE.

**UTILITY NOTE**

- THE POSITION OF POLE LINES, CONDUITS, WATERMANS, 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 THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING AND PROTECTING ANY EXISTING UTILITIES, AS REQUIRED, IN ACCORDANCE WITH THE UTILITY OWNERS' REQUIREMENTS. CONTRACTOR IS REQUIRED TO OBTAIN LOCATES, IN ADVANCE OF EXCAVATION WORK, AND FORWARD COPIES OF THE LOCATES TO THE CONSULTANT AND THE OWNER PRIOR TO EXCAVATION.
- ALL CROSSING OF EX. UTILITIES TO BE IN ACCORDANCE WITH CITY STD. DET. S10

**AREA DRAIN TABLE**

NEW STRUCTURE	STRUCTURE /COVER TYPE	TOP OF GRATE
AD1	S19.1	73.50m
AD2	S19.1	73.50m
AD3	S19.1	74.50m
AD4	S19.1	74.50m
AD5	S30	74.80m
AD6	S30	74.50m
AD7	S30	74.53m
AD8	S30	74.45m
AD9	S30	74.45m

**LEGEND**

- NEW STORM SEWER
- NEW SANITARY SEWER
- NEW WATERMAIN
- NEW MANHOLE
- NEW CATCH BASIN
- NEW WATER VALVE AND VALVE BOX
- NEW FIRE HYDRANT
- NEW FIRE DEPARTMENT CONNECTION
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT STANDARD
- REMOVALS
- WATER METER/ REMOTE METER
- PROPOSED LIGHT STANDARD A
- PROPOSED LIGHT STANDARD B

**PROPOSED WATER SERVICE TABLE**

STATION	SURFACE ELEVATION	T/W/M ELEVATION	COMMENTS
0+000	73.96	70.50±	TEE CONNECTION TO EXISTING 200mmØ WATERMAIN
0+002.8	73.98	70.50±	CROSS UNDER 406mmØ STM
0+005.0	71.99	70.50±	200mmØ VALVE AND VALVE BOX
0+005.4	71.97	70.50±	CAP 1.0m FROM BUILDING FACE

**PIPE CROSSING TABLE**

CROSSING	LOWER PIPE	HIGHER PIPE	CLEARANCE	SURFACE ELEVATION
A	200mmØ SAN OBV=71.40	406mmØ STM INV=72.50	2.01m±	74.01m
B	152mmØ WM OBV=70.66	200mmØ SAN INV=71.16	0.50m±	74.01m
C	150mmØ WM OBV=73.00	406mmØ STM INV=72.65	0.51m±	73.98m
D	150mmØ WM OBV=73.00	406mmØ STM INV=72.67	0.51m±	73.97m

**SEWER STRUCTURE TABLE**

NEW STRUCTURE	STRUCTURE TYPE	COVER TYPE	TOP OF GRATE	INVERT
MHST01	1200mmØ OPSD 701.010	CITY STANDARD S 24.1	73.98m	72.58m
MHSA01	1200mmØ OPSD 701.010	CITY STANDARD S 24	74.00m	71.18m
WASTEWATER SAMPLING CHAMBER	CITY STANDARD S 18.1	CITY STANDARD MS 22.15	74.02m	71.33m
CB1	600mmx600mm OPSD 705.010	CITY STANDARD S 19.1	75.00m	-

**PROPOSED HYDRANT LEAD TABLE**

STATION	SURFACE ELEVATION	T/W/M ELEVATION	COMMENTS
0+000	73.85	70.50±	TEE CONNECTION TO EXISTING 200mmØ WATERMAIN
0+001.5	73.87	70.50±	200mmØ VALVE AND VALVE BOX
0+002.9	73.98	70.50±	HYDRANT

**PROPOSED LIGHT STANDARD TABLE**

SYMBOL	LABEL	ARRANGEMENT	DESCRIPTION	HEIGHT (m)
●	A	SINGLE	CY21S2-FGC-4-40W-3K-10KV-DIM-COLOR-TX	0.63
●	L	SINGLE	CBM1701C-FGF-3-15W-3K-VOLT-10KV-COLOR-TX	1.15
■			BRACKET M534-C1-IN40-COLOR-TX   POLE PA40-14.5-INS-COLOR-TX   BASE BD11-COLOR-TX	5.31

**APPROVED**  
By Adam Brown at 4:28 pm, Aug 09, 2022

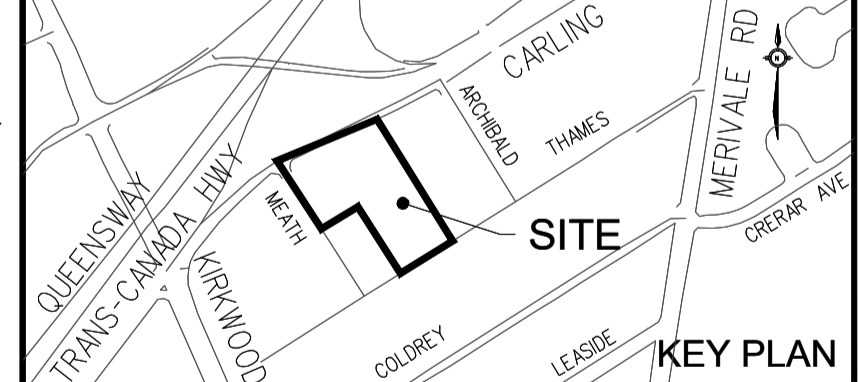
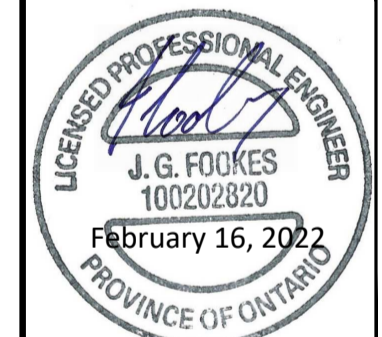
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No.	YYYY-MM-DD	ISSUED
4	2022-02-14	ISSUED FOR SITE PLAN CONTROL R4
3	2021-12-15	ISSUED FOR SITE PLAN CONTROL R3
2	2021-10-04	ISSUED FOR SITE PLAN CONTROL R2
1	2021-06-16	ISSUED FOR SITE PLAN CONTROL

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**PROJECT** 1354 & 1376 CARLING AVENUE DEVELOPMENT - PHASE 2  
**PLAN NUMBER** 18501 **APPLICATION NUMBER** D07-12-21-0092

**DRAWING** SITE SERVICING PLAN

DESIGN DO	DATE 2022-02-14	SCALE 1:400
DRAWN SC	PROJECT NO. 210292799	
CHECKED NC	DRAWING NO. C901	VERSION
APPROVED JF		

