

1. ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISION OF THE STANDARDS AND SPECIFICATIONS FOR THE CITY OF OTTAWA. THE CITY OF OTTAWA SHALL BE RESPONSIBLE FOR THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS. THE CITY OF OTTAWA'S SYSTEMS OF TRANSPORTATION STANDARDS WILL APPLY WHERE REQUIRED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED BY THE CONSTRUCTION, MAINTENANCE, OR DEMOLITION OF THE PROJECT.
3. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE AUTHORITY HAVING JURISDICTION IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY DISCREPANCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING AND NOTIFY ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTORS EXPENSE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.
5. RELOCATION OF EXISTING SERVICES AND/OR UTILITIES SHALL BE AS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
6. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE "CONSTRUCTOR" AS DEFINED IN THE ACT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND INFRASTRUCTURE. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES TO PREVENT CONFLICTS.
8. ALL DIMENSIONS ARE IN METRES UNLESS SPECIFIED OTHERWISE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITY HAVING JURISDICTION.
10. ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT.
11. FOR DETAILS RELATING TO STORMWATER MANAGEMENT AND ROOF DRAINAGE REFER TO THE SITE SERVICING AND STORMWATER MANAGEMENT DRAWINGS.
12. ALL SEWERS CONSTRUCTED WITH GRADES LESS THAN 1.0% SHALL BE INSTALLED USING LASER ALIGNMENT AND CHECKED WITH LEVEL.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND TO BEAR THE COST OF THE SAME.
14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING, OR ADDITIONAL STRONG PIPE IF THE MAXIMUM TRENCH WIDTH AT THE BOTTOM OF THE TRENCH IS GREATER THAN 1.0M.
15. ALL PIPE / CURVED SECTION SIZES REFER TO INSIDE DIMENSIONS.
16. SHOULD BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE HERITAGE OPERATIONS UNIT OF THE CITY OF OTTAWA SHALL BE NOTIFIED IMMEDIATELY.
17. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR PRIOR TO CONSTRUCTION ADMINISTRATION AND THE START OF CONSTRUCTION.
18. DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL SITE PLAN.
19. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER ONE SET OF AS CONSTRUCTED SITE SERVING AND GRADING DRAWINGS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND INFRASTRUCTURE. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES TO PREVENT CONFLICTS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND INFRASTRUCTURE. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES TO PREVENT CONFLICTS.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND INFRASTRUCTURE. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES TO PREVENT CONFLICTS.

1. ALL WATERMAIN INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE CITY OF OTTAWA AND THE ONTARIO PROVINCIAL STANDARDS AND REGULATIONS.
2. ALL P.V.C WATERMANS SHALL BE AWWA C-300 CLASS 150, 18 OR APPROVED EQUIVALENT.
3. WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W7. UNLESS SPECIFIED OTHERWISE, STABILIZED SAND OR GRAVEL SHALL BE SPECIFIED.
4. ALL P.V.C WATERMANS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TUB OR RWJ TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W10.
5. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS PER CITY OF OTTAWA STD. W40 AND W42.
6. VALVE BOXES SHALL BE INSTALLED PER CITY STANDARD W24.
7. ALL VALVE AREAS TO BE INSTALLED WITH RESTRAINED DISCHARGES PER CITY OF OTTAWA STD. W25.5 AND W26.6.
8. THRUST BLOCKING OF WATERMANS TO BE INSTALLED PER CITY OF OTTAWA STD. W25.3 AND W25.4.
9. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS, BLOW-OFFS, AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF WATERMANS.
10. WATERMANS CROSSING OVER AND BELOW SLEWERS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25, RESPECTIVELY.
11. ALL WATERMANS ARE TO BE INSULATED PER CITY STD. W23 WHERE SEPARATION BETWEEN SERVICES AND MAINTENANCE HOLES ARE LESS THAN 2.4m.
12. THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.50m PER MOE GUIDELINES. FOR CROSSING UNDER WATERMANS, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMANS AND SEWER / UTILITY JOINTS AND MANHOLES SHALL BE 0.75m. THE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING TO ENSURE THAT THE JOINTS WILL BE EQUIDISTANT AND AS CLOSE TO THE CENTERLINE OF THE WATERMAIN AS POSSIBLE.
13. ALL WATERMANS SHALL HAVE A MINIMUM COVER OR 2.4m, OTHERWISE TRENCH DEPTH OF 1.2m. HYDRAULIC INSULATION IS REQUIRED AS PER STD W20.
14. GENERAL WATER PLANT TO UTILITY CLEARANCE AS PER STD R20
15. ALL WATERMANS SHALL BE INSTALLED WITH A MINIMUM 100mm CLEARANCE FROM ANY EXISTING OR PROPOSED HYDRAULIC FLANGE ELEVATIONS TO BE INSTALLED 0.12m ABOVE PROPOSED FINISHED GRADE AT HYDRANT. FIRE HYDRANT LOCATION AS PER STD W20 UNLESS OTHERWISE NOTED.
16. ALL WATERMANS SHALL BE INSTALLED WITH A MINIMUM 100mm CLEARANCE FROM ANY EXISTING OR PROPOSED HYDRAULIC FLANGE ELEVATIONS TO BE INSTALLED 0.12m ABOVE PROPOSED FINISHED GRADE AT HYDRANT. FIRE HYDRANT LOCATION AS PER STD W20 UNLESS OTHERWISE NOTED.
17. ALL WATERMANS SHALL BE BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TESTING AND REPORTING OF RESULTS.
18. ALL WATERMANS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES. ALL WATERMANS SHALL BE TESTED TO 1.5 TIMES THE OPERATING PRESSURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TESTING AND REPORTING OF RESULTS. THE CONTRACTOR SHALL BE CONTROLLED AND TREATED SO AS NOT TO ADVERSELY EFFECT THE ENVIRONMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA AND THE PROVINCE OF ONTARIO.
19. ALL WATERMAIN STUBS SHALL BE TERMINATED WITH A PLUG AND 50mm BLOW OFF UNLESS OTHERWISE NOTED.

1. LATERAL ALIGNMENT CONTROLS TO BE UTILIZED ON ALL SEWER INSTALLATIONS.

2. LASER ALIGNMENT SHALL BE USED FOR PER CITY STANDARD DRAWING 58. THE SEALS SHOULD BE AT LEAST 1.5m LONG (ON THE TRENCH DIRECTION) AND SHOULD EXTEND FROM TRENCH WALL TO TRENCH WALL. THE SEALS SHOULD EXTEND FROM THE FIRST LINE AND FULLY COVER THE TRENCH WALLS. THE SEALS SHOULD BE COMPACTED TO A MINIMUM OF 95% SPDM. THE SEAL JOINTS SHOULD BE COVERED BY A BROWN SLIT CLAY PLATE IN MAXIMUM 225mm² LIFTS AND COMPACTED TO A MINIMUM OF 95% SPDM. THE CLAY SLIT SHOULD BE PLACED AT AN ANGLE OF 45 DEGREES TO THE TRENCH WALLS.

3. SERVICES TO BUILDINGS TO BE TERMINATED 1.0m FROM THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.

4. ALL MAINTENANCE STRUCTURE AND CATCH BASIN EXCAVATIONS TO BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED TO 95% STANDING WATER. THE TOP OF EXCAVATION SHALL BE FINISHED TO MATCH EXISTING GRADE.

5. "MODULOC" OR APPROVED PERE-CAST MAINTENANCE STRUCTURE AND CATCH BASIN ADJUSTERS TO BE USED IN LIEU OF BRICKWORK. PARGE JOINTS MUST BE PROTECTED WITH AN APPROVED PROTECTANT.

6. SAFETY PLATFORMS SHALL BE PRE-SPOT 404.02.

7. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH OPSD 1003.01 AND 1003.02, IF APPLICABLE.

8. ALL PHOTOGRAPHS SHALL BE TAKEN IN ACCORDANCE WITH THE FOLLOWING:

(a) PHOTOGRAPHS SHALL BE TAKEN IN THE PRESENCE OF THE CONSULTANT.

(b) VIDEO RECORDINGS IN A FORMAT ACCEPTABLE TO THE CONSULTANT. ALL SEWERS ARE TO BE FLUSHED PRIOR TO CAMERA INSPECTION.

(c) ALL WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS AND NECESSARY REPAIRS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE CONSULTANT.

9. CONTRACTOR SHALL PERFORM LEAKAGE TESTING, IN THE PRESENCE OF THE CONSULTANT, FOR SANITARY SEWERS IN ACCORDANCE WITH THE FOLLOWING:

(a) ALL SANITARY SEWERS SHALL BE TESTED FOR LEAKAGE.

(b) ALL SANITARY SEWERS SHALL BE TESTED FOR LEAKAGE.

(c) ALL SANITARY SEWERS SHALL BE TESTED FOR LEAKAGE.

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11. ALL SANITARY SEWER INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE CITY OF OTTAWA AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
12. ALL SANITARY GRAVITY SEWER SHALL BE 300 P.V.C. 35, IPEX "RING-ITE" (OR APPROVED EQUIVALENT) PER CSA STANDARD B182.2 OR LATEST AMENDMENT, UNLESS SPECIFIED OTHERWISE.
13. EXISTING MAINTENANCE STRUCTURES TO BE RE-BENCHED WHERE A NEW CONNECTION IS MADE.
14. SANITARY GRAVITY SEWER TRENCH AND BEDDING SHALL BE PER CITY OF OTTAWA STD. 56 AND 57, CLASS 'B' BEDDING, UNLESS SPECIFIED OTHERWISE.
15. SANITARY MAINTENANCE STRUCTURE FRAME AND COVERS SHALL BE PER CITY OF OTTAWA STD. S24 AND S25.
16. SANITARY MAINTENANCE STRUCTURES SHALL BE BENCHED PER OPSD 701.021.

17. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2, OR LATEST AMENDMENT. ALL JOINTS SHALL BE PROTECTED WITH A 1/2" THICK POLYURETHANE GASKET. ALL JOINTS SHALL BE IN ACCORDANCE WITH THE LATEST AMENDMENT. PIPE SHALL BE JOINED TO STD. RUBBER GASKETS AS PER CSA A257.3, OR LATEST AMENDMENT.
18. ALL STORM SEWER TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD R30 AND ST7 CLASS "B" UNLESS OTHERWISE SPECIFIED. BEDDING SHALL BE 150MM OF 1/2" GRADE SAND OR EQUIVALENT.
19. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
20. CATCH BASINS SHALL BE IN ACCORDANCE WITH CPSD 705.010.
21. ALL CATCH BASIN LIDS SHALL BE 200MM DIA. AT 12.50MM DIA. UNLESS SPECIFIED OTHERWISE.
22. ALL CATCH BASINS SHALL HAVE 600MM SPLANS, UNLESS SPECIFIED OTHERWISE.
23. ALL CATCH BASIN LIDS INVERTS TO BE 1.5m BELOW FINISHED GRADE UNLESS SPECIFIED OTHERWISE.
24. ALL CATCH BASIN LIDS SHALL BE 150MM THICK UNLESS SPECIFIED OTHERWISE. WHEN THE SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR IS REQUIRED TO PROVIDE AND SHALL BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE MICHEN TRENCH.
25. REINFORCED SUBGRADE AND LANDING LATCH CATCH BASIN SHALL BE INSTALLED PER CITY STD R1 AND GEOTECHNICAL RECOMMENDATIONS UNLESS OTHERWISE NOTED.
26. REINFORCED SUBGRADE FOR REAR YARD AND LANDSCAPING APPLICATIONS SHALL BE INSTALLED PER CITY STD R29, R30, AND S31, WHERE APPLICABLE.
27. RIP-UP/REPAIR FOR SEWER AND CULVERT OUTLETS PER CPSD 810.010.
28. ALL STORM SEWERS SHALL BE INSTALLED WITH FROST PROTECTION PER CPSD 803.0331 WHERE APPLICABLE.
29. STORM MAINTENANCE STRUCTURE AND COVER SHALL BE PER CITY OF OTTAWA STD R28 AND S24.1, UNLESS OTHERWISE NOTED.
30. CATCH BASIN FRAME AND COVER SHALL BE PER CPSD 400.02 AND CITY STD S191, UNLESS OTHERWISE NOTED.

	PROPERTY LINE		PROPOSED STORM MANHOLE
	PROPOSED WATERMAIN		PROPOSED SANITARY MANHOLE
	PROPOSED SANITARY SEWER		PROPOSED CATCH BASIN
	PROPOSED STORM SEWER		PROPOSED CURB INLET CATCH BASIN
 VB	PROPOSED VALVE BOX		TRITON M-6 OR APPROVED EQUIVALENT
	PROPOSED FIRE HYDRANT		
	PROPOSED SIAMESE CONNECTION		
 RM	PROPOSED REMOTE WATER METER		EASEMENT LINE
 M	PROPOSED WATER METER		LIMIT OF CONSTRUCTION
 VC	EXISTING VALVE CHAMBER		

CONTRACTOR TO CONFIRM ELEVATIONS AND LOCATIONS OF EXISTING UNDERGROUND SERVICES AND UTILITIES WITHIN THE RIGHT OF WAY PRIOR TO INSTALLATION OF SITE SERVICING INFRASTRUCTURE.

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

TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. (A.O.V.)
PROJ. NO. 12741-12
DATED APRIL 18, 2012

SITE PLAN PROVIDED BY BARRY J. HOBIN & ASSOCIATES ARCHITECTS INC.
PROJ. NO. 0012.10
DATED JANUARY 24, 2020

GEOTECHNICAL RECOMMENDATIONS PROVIDED BY PATERSON GROUP INC.
 PROJ. NO. PG2889-1 REV 2
 DATED DECEMBER 7, 2017

SITE SERVICING AND STORMWATER MANAGEMENT STUDY
SERVICING AND STORMWATER MANAGEMENT RECOMMENDATIONS PROVIDED BY DAVID SCHAEFFER ENGINEERING LTD.
PROJ. NO. 12-558
DATED FEBRUARY 2020

TOP OF SPINDLE ON FIRE HYDRANT LOCATED AT HAZELDEAN ROAD AND FRINGEWOOD DRIVE INTERSECTION
ELEV=105.44



5754 & 5734 HAZELDEAN ROAD/24 IBER ROAD © DSE

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