

GENERAL NOTES

- . MEASUREMENTS IN METRES AND/OR MILLIMETRES, UNLESS OTHERWISE SHOWN.
- 2. ALL DIMENSIONS AND ELEVATIONS TO BE CHECKED AND VERIFIED ON SITE BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED PRIOR TO THE START OF WORK. 3. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES, EXPOSING, SUPPORTING AND PROTECTING OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF THEIR WORK WHETHER SHOWN ON THE PLANS OR NOT AND FOR ALL REPAIRS AND CONSEQUENCES
- RESULTING FROM DAMAGE TO SAME 4. ALL TRENCHING TO BE DONE IN ACCORDANCE WITH THE CONSTRUCTION SAFETY ACT. 5. ALL INTERNAL WORK TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS, UNLESS OTHERWISE
- 6. A ROAD OCCUPANCY PERMIT WILL BE REQUIRED FROM THE MUNICIPAL ROAD AUTHORITY
- FOR ALL WORKS WITHIN THE PUBLIC ROAD ALLOWANCE. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE ROAD OCCUPANCY PERMIT(S), INCLUDING PROVIDING ALL REQUIRED
- 7. REFER TO THE SITE PLAN FOR THE DIMENSIONING OF BUILDINGS, INTERIOR SIDEWALKS, DRIVEWAYS, PARKING AREAS AND CURBING
- 8. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER ONE (1) SET OF AS-CONSTRUCTED SITE SERVICING, GRADING AND SITE ELECTRICAL DRAWINGS.

WATERMAINS AND FIREMAINS

SUPPORTING DOCUMENTATION

- 1. ALL WATERMAINS AND FIREMAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ONTARIO PROVINCIAL STANDARD SPECIFICATION OPSS 701 AND PART VII OF THE ONTARIO BUILDING CODE AND AS PER THE REQUIREMENTS OF LAKEFRONT UTILITY SERVICES INC.
- WATERMAIN & APPURTENANCE POLICY, UNLESS OTHERWISE SHOWN. WATERMAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 0.50m OVER AND UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING. THE LENGTH OF WATER PIPE SHALL BE CENTRED AT THE POINT OF CROSSING SO THAT JOINTS WILL BE EQUIDISTANT AND AS FAR AWAY AS POSSIBLE FROM THE SEWER.
- ALL WATERMAINS AND SERVICES SHALL HAVE 1.8m MINIMUM COVER AND HORIZONTAL SPACING OF 2.44m FROM ALL SEWER LINES.
- 4. 100mm TO 300mm DIAMETER WATERMAINS AND FIREMAINS SHALL BE PVC SDR-18. C-900. CLASS 150 UNLESS OTHERWISE SHOWN. WATER SERVICE CONNECTIONS 50mm OR LESS SHALL BE TYPE 'K' COPPER.
- 5. PIPE BEDDING AND BACKFILL FOR WATERMAINS SHALL BE AS PER OPSD 802.010 FOR FLEXIBLE PIPE UNLESS OTHERWISE SHOWN.
- ALL CURB STOPS TO BE 3.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS PRIOR O CONNECTION, USING TEST POINT BY-PASS AS REQUIRED.
- EITHER CONCRETE THRUST BLOCKS AS PER OPSD 1103.010 AND 1103.020 OR MECHANICALLY RESTRAINED JOINTS SHALL BE USED. MECHANICAL JOINT RESTRAINT SHALL
- BE UNI-FLANGE SERIES 1350 OR APPROVED. PROVISIONS FOR FLUSHING WATERMAINS MUST BE PROVIDED WITH AT LEAST A 50mm OUTLET ON 100mm AND LARGER LINES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. FIREMAINS FLUSHING OUTLET TO BE 100mm DIAMETER MINIMUM OR A HYDRANT. FLUSHING POINTS MUST BE HOSED OR PIPED TO
- 10. FIRE HYDRANTS SHALL CONFORM TO AWWA C502 OR LATEST REVISION. HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH OPSD 1105.010. HYDRANT FLANGE ELEVATIONS TO BE INSTALLED 0.15m ABOVE THE PROPOSED FINISHED GRADE AT HYDRANT.
- 11. TRACER WIRE SHALL BE ATTACHED TO EVERY NON-METALLIC WATERMAIN, FIREMAIN AND 12. ALL WATERMAIN STUBS SHALL BE TERMINATED WITH A PLUG AND 50mm BLOW-OFF
- UNLESS OTHERWISE NOTED. 13. ALL NEW WATERMAINS AND SERVICES TO BE PRESSURE TESTED TO 1379kPa (200 psi) FOR
- AT LEAST ONE (1) HOUR WITHOUT LEAKAGE. 14. THE CONTRACTOR SHALL SUCCESSFULLY SWAB AND CHLORINATE WATERMAINS AND SERVICES PRIOR TO CONNECTING TO EXTERNAL WATERMAINS. CONNECTION TO MUNICIPAL WATERMAIN SHALL NOT BE GRANTED UNTIL A POSITIVE LABORATORY TEST RESULT IS
- PROVIDED AND ACCEPTED 15. ALL HYDRANTS ON PRIVATE PROPERTY TO BE PAINTED RED AND THE STORZ PAINTED
- 16. PRIVATE WATER SUPPLY LINES HAVE BEEN DESIGNED IN ACCORDANCE WITH M.O.E.C.C. GUIDELINES AS PER 7.1.6.5 OF THE O.B.C.
- 17. UNLESS OTHERWISE NOTED ALL WATERMAIN CROSSINGS ARE TO BE ACCOMMODATED USING VERTICAL PIPE DEFLECTIONS.
- 18. ALL TRENCHES ARE TO BE BACKFILLED TO THE STANDARD PROCTOR DENSITY AS SPECIFIED BY THE GEOTECHNICAL CONSULTANT.
- 19. BUILDING SERVICE VALVES TO BE 3.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED AND MUST BE RESTRAINED A MINIMUM OF 12.0m BACK FROM STUB.

STORM AND SANITARY SEWERS

S 79.79 N 79.76

N 79.81

S 78.84 N 78.81

S 78.49 W 78.43

N 78.86

N 78.12

S 80.14

NW 80.14

NW 80.27

W 80.30

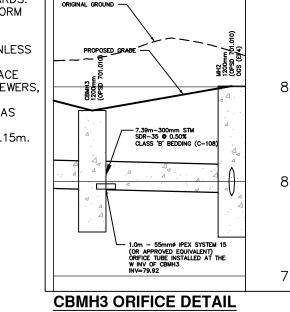
ALLOW THE WATER TO DRAIN.

- 1. ALL STORM AND SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ONTARIO PROVINCIAL STANDARD SPECIFICATION OPSS 410 AND PART VII OF THE ONTARIO
- BUILDING CODE, UNLESS OTHERWISE SHOWN. SANITARY SEWER PIPES 375mm AND SMALLER SHALL BE PVC SDR-35 CONFORMING TO CSA B182.2 AND B182.4, UNLESS OTHERWISE NOTED. PIPES SHALL BE JOINTED BY MEANS OF APPROVED RUBBER GASKETS.
- 3. STORM SEWER PIPES 375mm AND SMALLER SHALL BE RIBBED PVC CONFORMING TO CSA B182.2 AND B182.4, UNLESS OTHERWISE NOTED. PIPES SHALL BE JOINTED BY MEANS OF APPROVED RUBBER GASKETS.
- 4. STORM SEWER PIPES 450mm AND LARGER SHALL BE STEEL REINFORCED CONCRETE PIPE CLASS 65-D, CONFORMING TO SPECIFICATION CSA A257.1, A257.3, UNLESS OTHERWISE NOTED PIPES SHALL BE JOINTED BY MEANS OF APPROVED RUBBER GASKETS
- 5. PIPE BEDDING AND BACKFILL SHALL BE AS PER OPSD 802.010 FOR FLEXIBLE PIPE AND
- OPSD 802.030 AND 802.031 FOR RIGID PIPE, UNLESS OTHERWISE SHOWN.

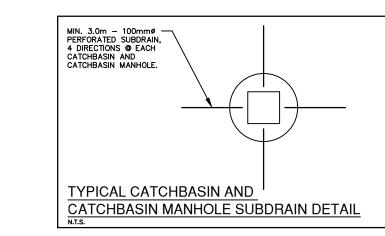
 6. MANHOLES SHALL BE AS PER OPSD 701.010, 701.011, 701.012, 701.013, 701.014 AND 701.015. FRAMES AND COVERS AS PER OPSD 401.010. DROP STRUCTURES AS PER OPSD
- 1003.01. MANHOLES SHALL BE 1200mm IN DIAMETER, UNLESS OTHERWISE SHOWN. 7. SINGLE CATCHBASINS SHALL BE AS PER OPSD 705.010, DOUBLE CATCHBASINS SHALL BE AS PER OPSD 705.020. FRAMES AND COVERS AS PER OPSD 400.010 WHEN ADJACENT TO CURBS AND OPSD 400.020 IN OTHER AREAS. CATCHBASIN LEADS SHALL BE 300mm AT
- MINIMUM 1.0% GRADE, UNLESS OTHERWISE NOTED. 8. STORM AND SANITARY SEWERS AND APPURTENANCES WITHIN A PUBLIC ROAD ALLOWANCE
- SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL MUNICIPAL AUTHORITY STANDARDS. 9. THE CONTRACTOR SHALL SUBMIT A VIDEO INSPECTION REPORT OF ALL INSTALLED STORM AND SANITARY MAINS, INCLUDING CATCHBASIN LEADS AND SERVICES PRIOR TO
- 10. SERVICE CONNECTIONS SHALL TERMINATE 1.5m FROM THE FACE OF THE BUILDING, UNLESS OTHERWISE NOTED
- 11. ALL DOWNSPOUTS SHALL BE DISCONNECTED AND DISCHARGE DIRECTLY TO THE SURFACE 12. MINIMUM DEPTH OF COVER OF 1.4m FOR STORM SEWERS AND 1.8m FOR SANITARY SEWERS
- UNLESS OTHERWISE SHOWN. 13. PRIVATE SEWERS HAVE BEEN DESIGNED IN ACCORDANCE WITH M.O.E.C.C. GUIDELINES AS
- PER 7.1.6.5 OF THE O.B.C. 14. MINIMUM PIPE CROSSING CLEARANCE FOR STORM AND SANITARY SEWERS IS TO BE 0.15m. 15. SANITARY SERVICE CONNECTIONS MUST BE INSTALLED USING WYE CONNECTIONS.

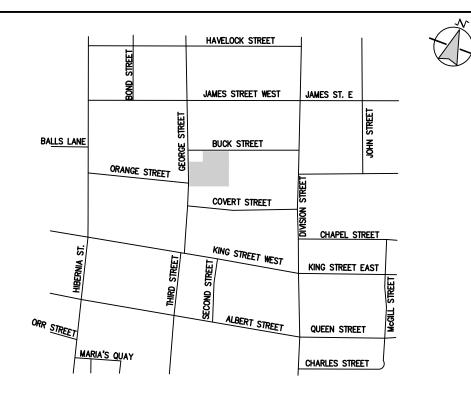
NOTES

OGS(STORMCEPTOR EF4



Pipe Interference Table					
Crossing No.	PIPE 1	PIPE 2	Clearance		
1	STM Bottom 79.76	W/M Top 79.26	0.50		
2	STM Bottom 80.39	W/M Top 79.89	0.50		
3	STM Bottom 80.36	SAN Top 78.59	1.77		
4	W/M Bottom 79.91	SAN Top 78.31	1.60		
5	STM Bottom 80.32	SAN Top 78.63	1.69		
6	STM Bottom 80.29	SAN Top 78.74	1.55		





KEY PLAN

•	SANITARY MANHOLE
0	STORM MANHOLE
	CATCHBASIN MANHOLE
	DOUBLE CATCHBASIN MANHOLE
	CATCHBASIN
	DOUBLE CATCHBASIN
ф-	FIRE HYDRANT & VALVE BOX
$\stackrel{l}{\otimes}$	WATER VALVE & BOX
$lue{ullet}$	STREET LIGHT
	TRANSFORMER

BELL PLANT ROGERS PLANT LIMIT OF DEVELOPMENT

LEGEND

LIMIT OF CONSTRUCTION FINISHED FLOOR ELEVATION FF=100.00

PROPOSED 125mmø (DOUBLE) SANITARY CONNECTION WITH 100mmø WYES

PROPOSED 125mmø (SINGLE) SANITARY CONNECTION PROPOSED 150mmø (SINGLE) ______

————— PROPOSED 25mmø WATER SERVICE CONNECTION

STORM CONNECTION

VERTICAL TRENCHING. FULL DEPTH PERMANENT ROAD RESTORATION RESTORE WITH: 90mm HL8 ASPHALT

150mm GRAN 'A' 350mm GRAN 'B'

INCL. GRIND OUT OF 40mm HL8 AND REPLACE WITH 40mm HL3 ASPHALT (YEAR 2 WORKS) EXTENT OF REQUIRED PAVEMENT AND/OR BOULEVARD

RESTORATION. FULL WIDTH, HL8 TO SURFACE & SURFACE PAVEMENT JOINT TREATMENT. RESTORATION DURING YEAR 2, GRIND OUT OF 40mm HL8 AND REPLACE WITH 40mm HL3 ASPHALT

PIPE INSULATION (OPSD 1109.030)

SUMP PUMP REQUIRED

LEGAL DESCRIPTION:

PART OF AN UNNUMBERED LOT, BLOCK H, SOUTH SIDE UNIVERSITY AVENUE AND EAST SIDE GEORGE STREET CADDY PLAN

TOWN OF COBOURG COUNTY OF NORTHUMBERLAND

REFERENCE DRAWINGS:

FOR SITE PLAN INFORMATION REFER TO DRAWING PRELIM. #1, DATED SEPT., '19,

PROJECT No. 19029 BY R.W. BRUYNSON INC. **SURVEY INFORMATION:**

SURVEY INFORMATION TAKEN FROM TOPOGRAPHIC DETAIL OF 296 GEORGE STREET, FILE No. 4-5094-TopoDetail.dwg, PREPARED BY IVAN B. WALLACE O.L.S. LTD. DATED 29th. DAY OF APRIL 2019.

BENCHMARK INFO:

ELEVATIONS ARE REFERRED TO THE TOWN OF COBOURG BENCHMARK No. 0011910U17 HAVING AN ELEVATION OF 80.14m.

REVISIONS DATE DESCRIPTION APPROVE A.W. 03.26.21 1st SPA SUBMISSION

TOWN OF COBOURG ENGINEERING AND ENVIRONMENTAL SERVICES

296 GEORGE STREET

SITE SERVICING PLAN



REVISION DATE: Mar. 26, 2021

WHITBY, ONTARIO L1N 9B2

FAX (905) 794-0611



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AISON E	SCALE : 1:250	
ATSON E	DRAWN BY:	J.J.
9398	DESIGNED BY :	J.J.
CNIARIO	CHECKED BY :	A.W.
01111		

FILE: E20016-SSSG.dwg

PROJECT No.

DRAWING No.

E20016