



INSULATION OF SEWERS IN SHALLOW TRENCHES

[illegible]

Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermain

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ELLWOOD HOUSE EXTENSION
38—UNIT 3—STOREY APARTMENT BUILDING
2262 BRAESIDE AVENUE
& SITE IMPROVEMENTS
2262—2270 BRAESIDE AVENUE
& 2345 ALTA VISTA DRIVE
OTTAWA, ONTARIO

DETAILS

Engineer's Seal

NOT VALID UNLESS
SIGNED & DATED

Drawn	D.B.G
H. Scale	1:250
V. Scale	
Date	OCT 15-21
Job No.	21028

Drawing No.
C-5
of 7

REF	TOP	SIZE	TYPE	INVERT AT INLET	INVERT AT OUTLET	NOTES
STORM SEWER						
CB-1	102.45	600mm x 600mm	PRE-CAST CONCRETE CATCH-BASIN	-	100.36	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
CB/AH-2	102.43	1200mm	PRE-CAST CONCRETE CATCH-BASIN/MANHOLE	100.29(NW)	100.29(S)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
CB/AH-3	102.44	1200mm	PRE-CAST CONCRETE CATCH-BASIN/MANHOLE	100.22(N)	100.22(W)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010 INSTALL ICD IN OUTLET PIPE
CB/AH-4	102.10	1200mm	PRE-CAST CONCRETE CATCH-BASIN/MANHOLE	-	100.39	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010 INSTALL ICD IN OUTLET PIPE
MH-5	102.55	CDS PMSU2015-4	PRE-CAST CONCRETE MANHOLE	100.21(E) 100.23(SE)	100.20(W)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS EXCEPTED WITH A DEEP SUMP AS INSTALLED WITH A WATERIGHT COVER
MH-6	102.01	1200mm	PRE-CAST CONCRETE MANHOLE	100.07(E) ±100.03(S)	100.01(N)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
CB-7	100.69	600mm x 600mm	PRE-CAST CONCRETE CATCH-BASIN	-	97.81	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
CB-8	99.66	600mm x 600mm	PRE-CAST CONCRETE CATCH-BASIN	-	97.77	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
CB-9	99.66	600mm x 600mm	PRE-CAST CONCRETE CATCH-BASIN	-	97.71	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
CB/AH-10	100.92	1200mm	PRE-CAST CONCRETE CATCH-BASIN/MANHOLE	±98.84(W)	97.78(N)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010 INSTALL ICD IN OUTLET PIPE
CB/AH-11	100.59	1200mm	PRE-CAST CONCRETE CATCH-BASIN/MANHOLE	97.60(S)	97.54(E)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010 INSTALL ICD IN OUTLET PIPE
MH-12	99.26	1200mm	PRE-CAST CONCRETE MANHOLE	97.37(W) ±97.24(S)	97.24(N)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
CB-13	99.60	600mm x 600mm	PRE-CAST CONCRETE CATCH-BASIN	-	97.65	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
SANITARY SEWER						
MH-SA-1	100.56	1200mm	PRE-CAST CONCRETE MANHOLE	96.91(S)	96.85(E)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
MH-SA-2	100.85	1200mm	PRE-CAST CONCRETE MANHOLE	-	97.93	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010

WATER SERVICE PROFILE TABLE					
MATERIAL: 150mm PVC PRESSURE CLASS 150 DR18					
B+00.0 (A+42.5)	150mm x 150mm TEE TO CITY OF OTTAWA STANDARDS	100.49	98.22	2.27	50mm INSULATION AS PER CITY OF OTTAWA DWG W22 50. FROM B+00.0 TO B+03.7
B+01.0	150mm VALVE & VALVE BOX TO CITY OF OTTAWA STANDARDS	100.48	98.22	2.28	
B+03.7	-	100.51	98.22	2.29	
B+07.0	FIRE HYDRANT TO CITY OF OTTAWA STANDARDS	100.81	98.22	2.59	-
MATERIAL: 50mm PEX TUBING TO AWWA C-904 SDR 9 (CTS)					
C+00.0 (A+50.5)	TVS CONNECTION TO 150mm WATERMAIN TO CITY OF OTTAWA STANDARDS	100.73	98.42	2.31	-
C+02.3	50mm CURB STOP TO CITY OF OTTAWA STANDARDS	100.75	98.35	2.40	-
C+16.0	-	100.78	98.38	2.40	CROSSING 250 ST TOP 97.98 WM U/S 98.33 - 350mm CLEARANCE
C+24.5	-	100.88	98.48	2.40	-
C+30.5	50mm x 25mm REDUCER STANDARDS (IF REQUIRED)	±101.27	98.87	2.40	CONNECT TO EXISTING WS (SIZE UNKNOWN - 25mm to 50mm)
MATERIAL: 50mm COPPER ASTM B88 TYPE "K" SOFT					
E+00.0	TVS CONNECTION TO 150mm WATERMAIN AS PER CITY OF OTTAWA DRAWING No. W33	±99.78	±97.88	±1.80	-
E+03.0	-	±99.88	97.41	2.47	CROSSING 225 SAN TOP ±97.16 WM U/S CLEARANCE 200mm
E+06.3	-	±99.77	97.41	2.36	CROSSING 375 ST INV ±97.71 500mm CLEARANCE
E+07.3	-	±98.74	97.34	2.40	BOTTOM OF CURB
E+13.0	50mm CURB STOP TO CITY OF OTTAWA STANDARDS	100.13	97.68	2.45	ON PROPERTY LINE
E+20.6	-	100.69	98.29	2.40	ENTRY INTO BUILDING

WATER SERVICE PROFILE TABLE					
MATERIAL: 150mm-200mm PVC PRESSURE CLASS 150 DR18					
STATION	DESCRIPTION	GRADE ELEVATION	TOP OF PIPE	DEPTH OF COVER	NOTES
A+00.0	150mm x 150mm TEE CONNECTION TO CITY OF OTTAWA STANDARDS	±99.35	97.55	±1.80	-
A+00.5	150mm 45° VERTICAL BEND DOWN TO CITY OF OTTAWA STANDARDS	±99.38	97.55	±1.83	-
A+02.0	150mm 45° VERTICAL BEND UP TO CITY OF OTTAWA STANDARDS	±99.42	96.05	±3.37	-
A+03.0	-	±99.45	96.05	±3.40	CROSSING 205 SAN INV ±98.55 ±500mm CLEARANCE (MIN. 500mm REQUIRED)
A+06.2	-	±99.34	96.05	±3.04	CROSSING 375 ST INV ±97.29 ±1240mm CLEARANCE (MIN. 500mm REQUIRED)
A+07.2	150mm 45° VERTICAL BEND UP TO CITY OF OTTAWA STANDARDS	±99.31	96.05	±3.26	BOTTOM OF CURB
A+08.1	150mm 45° VERTICAL BEND DOWN TO CITY OF OTTAWA STANDARDS	99.41	97.01	2.40	-
A+09.0	200mm TO 150mm REDUCER TO CITY OF OTTAWA STANDARDS	99.44	97.04	2.40	-
A+12.9	200mm VALVE & VALVE BOX TO CITY OF OTTAWA STANDARDS	99.59	97.19	2.40	ON PROPERTY LINE
A+27.7	-	100.09	97.69	2.40	50mm INSULATION AS PER CITY OF OTTAWA DWG W22 50 FROM A+27.7 TO A+31.5
A+35.9	-	100.31	97.98	2.33	-
A+42.5 (B+00.0)	200mm x 150mm TEE (TO FIRE HYDRANT) TO CITY OF OTTAWA STANDARDS	100.49	98.22	2.27	-
A+45.0	-	100.57	98.31	2.26	CROSSING 200 SAN TOP 97.13 MM U/S 98.17 1040mm CLEARANCE
A+46.7	-	100.58	98.37	2.21	CROSSING 300 ST TOP 97.92 2840mm U/S 98.22 2500mm CLEARANCE (MIN. 250mm REQUIRED)
A+47.8	200mm 45° HORIZONTAL BEND TO CITY OF OTTAWA STANDARDS	100.70	98.38	2.32	-
A+48.8	200mm TO 150mm REDUCER TO CITY OF OTTAWA STANDARDS	100.71	98.42	2.29	-
A+49.5	-	100.72	98.44	2.28	CROSSING 150 SAN INV ±98.70 ±380mm CLEARANCE
A+50.5 (C+00.0)	TYS CONNECTION TO 150mm WATERMAIN TO CITY OF OTTAWA STANDARDS	100.73	98.47	2.26	-
A+51.5	150mm 45° HORIZONTAL BEND TO CITY OF OTTAWA STANDARDS	±100.74	±98.49	±2.25	CONNECT TO EXISTING 150mm WS 50mm INSULATION AS PER CITY OF OTTAWA DWG W22 50 FROM A+27.7 TO A+51.5