UTILITY LEGEND

- TRANSFORMER
- TRANSFORMER C/W CONCRETE WINGS
- HYDRO SWITCHGEAR
- HYDRO MANHOLE
- BELL PEDESTAL
- BELL GRADE LEVEL BOX (l=600mm, w=1200mm, d=750mm) C/W 1.5 x 3.0m easement
- BELL FIBER CABINET (l=1200mm, w=750mm, d=500mm)
- BELL CENTRAL SPLITTING POINTS (l=1175mm, w=1200mm, d=500mm)
- ROGERS PEDESTAL
- ROGERS VAULT (l=1000mm, w=1000mm, d=1200mm) C/W 1m x 2m easement
- STREET LIGHT
- STREET LIGHT DISCONNECT
- STREET LIGHT GROUNDING
- JOINT UTILITY TRENCH (H/B/T/G/S)
- HYDRO CABLE AND DUCTS (H)
- BELL CABLE (B)
- BELL DUCTS (BB)
- ROGERS CABLE (T)
- ROGERS DUCTS (TT)
- GAS (G)
- STREET LIGHT CABLE (S)
- UTILITY DROP LOCATIONS
- CONCRETE ENCASED DUCT BANK C/W NUMBER OF DUCTS (10–DUCTS 6–H 4–T)
- COMMUNITY MAILBOX (CMB)
- PROPOSED TREE LOCATION
- ROOT MANAGEMENT BARRIER

SEDIMENT EROSION LEGEND

- HEAVY DUTY SILT FENCE
- SNOW FENCE
- STRAW BALE CHECK DAM
- STRAW BALE CHECK DAM WITH FILTER CLOTH
- ROCK CHECK DAM
- SEDIMENT SACK PLACED UNDER EXISTING CB COVER
- TEMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON WOVEN FILTER CLOTH

GENERAL LEGEND

- LIMIT OF CONSTRUCTION
- PHASING LINE
- BARRIER CURB
- MOUNTABLE CURB
- DEPRESSED BARRIER CURB
- CONCRETE SIDEWALK
- TACTILE WALKING SURFACE INDICATOR
- ASPHALT SIDEWALK / PATHWAY
- BUS STOP CONCRETE / ASPHALT

ROADWAY STRUCTURE:

HEAVY-DUTY ASPHALT AREA :(690mm)

40mm	- SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm	- SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm	- OPSS GRANULAR "A" CRUSHED STONE
450mm	- OPSS GRANULAR "B" TYPE II

LIGHT-DUTY ASPHALT AREA :(615mm)

40mm	- SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm	- SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm	- OPSS GRANULAR "A" CRUSHED STONE
375mm	- OPSS GRANULAR "B" TYPE II

SERVICING LEGEND

- SANITARY MANHOLE (MH118A)
- SANITARY SEWER (200mmø SAN)
- STORM MANHOLE (MH109, MH118)
- STORM SEWER - LESS THAN 900Ø (825mmø STM)
- STORM SEWER - 900Ø AND GREATER (900mmø STM)
- WATERMAIN (200ø WATERMAIN)
- STREET CATCHBASIN C/W TOP OF GRATE (CB100 T/G 104.10)
- CURB INLET CATCHBASIN C/W GUTTER GRADE (CICB101 G/G 104.25)
- DOUBLE CATCHBASIN C/W TOP OF GRATE (DCB100 T/G 104.10)
- DITCH INLET CATCHBASIN C/W GUTTER GRADE (DICB101 G/G 104.25)
- CATCHBASIN MANHOLE C/W TOP OF GRATE (CBMH100 T/G 103.59)
- DITCH INLET MANHOLE C/W TOP OF GRATE (CBMH101 T/G 103.59)
- ICD LOCATION (CB100 T/G 104.10)
- REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE C/W SOLID GRATE (RYCB T/G 104.35)
- REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT (T/G 104.35 INV 103.35)
- REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT (T/G 104.50 INV 103.50)
- REAR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT (T/G 104.35 INV 103.35)
- REAR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT (T/G 104.35 INV 103.35)
- PERFORATED REAR YARD SUBDRAIN
- CSP CULVERT C/W DIAMETER (300mmø CSP)
- VALVE AND VALVE BOX (V&VB)
- VALVE AND VALVE CHAMBER (V&VC)
- FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION (HYD 104.35)
- WATERMAIN REDUCER (200ø WM RED 150ø WM)
- VERTICAL BEND LOCATION (2 VBENDS)
- SINGLE SERVICE LOCATION
- DOUBLE SERVICE LOCATION
- INFERRED BEDROCK (SEE GEOTECHNICAL REPORT) (BH 12 102.00)
- 100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE (HGL 101.79)
- STRESS TEST STORM HYDRAULIC GRADE LINE AT MANHOLE (S/T HGL 101.79)
- UNDERSIDE OF FOOTING ELEVATION (WITH LOT #) (108 102.40)
- CLAY SEAL IN SEWER / WATERMAIN TRENCH

GRADING LEGEND

- PROPOSED SWALE C/W FLOW DIRECTION
- PROPOSED DITCH C/W FLOW DIRECTION AND SLOPE
- SLOPE C/W FLOW DIRECTION
- MAJOR OVERLAND FLOW ROUTE
- PROPOSED SPOT GRADE (104.62)
- PROPOSED SWALE GRADE (104.40)
- PROPOSED SWALE HIGH POINT GRADE (104.50)
- LOT CORNER GRADE C/W EXISTING GRADE (104.60 103.59)
- TIE INTO EXISTING GRADE (86.45 EX)
- FULL STATIC PONDING GRADE (95.79)
- RETAINING WALL
- TOP OF RETAINING WALL GRADE (105.30 T/W)
- TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE
- PROPOSED BOTTOM OF RETAINING WALL GRADE (103.50 B/W)
- PRESSURE REDUCING VALVE (Based on the higher of the sewer obverts, or hydraulic grade line)
- FINISHED FLOOR ELEVATION (F.FL. 96.32)
- TOP OF FOUNDATION ELEVATION (T.FND. 95.96)
- UNDERSIDE OF FOOTING ELEVATION (U.S.F. 93.36)
- TOTAL NUMBER OF RISERS (RISERS 2)
- MINIMUM UNDERSIDE OF FOOTING (M.U.S.F.)
- MINIMUM GARAGE GRADE (M.G.G.)
- WALKUP UNIT (WU)
- WALKOUT UNIT (WO)
- NON-STANDARD FOUNDATION (Frost cover not provided for standard unit) (NS)
- BACKSPLIT UNIT (1.5m frost cover on footings) (BS)
- NOISE FENCE LOCATION
- NOISE FENCE GATE

WATERMAIN SCHEDULE

	STATION	DESCRIPTION	FINISHED GRADE (m)	TOP OF WATERMAIN	WATERMAIN COVER	AS-BUILT WATERMAIN	COMMENTS
A	0+000.00	CONNECT TO EX. 250Ø W/M WITH 250Ø x 200Ø TEE	99.69	97.38	2.31		
	0+004.77	200Ø – 45° VERTICAL BEND	99.83	97.43	2.40		
	0+005.60	200Ø – 45° VERTICAL BEND	99.86	98.03	1.83		* INSULATE PER W22
	0+006.00	200Ø V&VB	99.87	98.03	1.84		* INSULATE PER W22
B	0+008.17	150Ø x 200Ø TEE	99.81	98.03	1.79		* INSULATE PER W22
	0+008.67	200Ø – 45° VERTICAL BEND	99.80	98.03	1.77		* INSULATE PER W22
	0+009.47	200Ø – 45° VERTICAL BEND	99.77	97.37	2.40		
	0+010.00	50Ø SERVICE CONNECTION BUILDING 6	99.76	97.36	2.40		
	0+018.39	50Ø SERVICE CONNECTION BUILDING 6	100.07	97.67	2.40		
	0+029.19	200Ø – 45° VERTICAL BEND	100.56	98.16	2.40		
	0+029.84	200Ø – 45° VERTICAL BEND	100.58	98.60	1.98		* INSULATE PER W22
C	0+030.59	200Ø x 200Ø CROSS	100.62	98.70	1.91		* INSULATE PER W22
	0+031.47	200Ø x 150Ø REDUCER	100.65	98.77	1.88		* INSULATE PER W22
	0+032.51	-	100.70	98.98	1.71		* INSULATE PER W22
	0+036.48	150Ø – 45° VERTICAL BEND	100.79	98.65	2.14		* INSULATE PER W22
	0+037.13	150Ø – 45° VERTICAL BEND	100.76	98.36	2.40		
D	0+041.00	200Ø x 150Ø TEE	100.83	98.43	2.40		
	0+055.25	50Ø SERVICE CONNECTION BUILDING 5	101.29	98.89	2.40		
	0+056.12	150Ø CAP	101.33	98.93	2.40		
	0+064.50	50Ø – 45° BEND	101.68	99.28	2.40		
	0+066.62	50Ø – 45° BEND	101.82	99.42	2.40		
	0+071.83	50Ø V&VB	102.02	99.62	2.40		
E	0+076.47	50Ø SERVICE CONNECTION BUILDING 5	102.33	99.93	2.40		
D	0+000.00	150Ø x 150Ø TEE	100.83	98.43	2.40		
	0+010.60	50Ø SERVICE CONNECTION BUILDING 5	101.40	97.94	3.46		
	0+017.20	-	101.27	98.88	2.40		
	0+020.20	-	101.27	98.87	2.40		
F	0+029.35	150Ø x 150Ø TEE	101.08	98.68	2.40		
F	0+000.00	150Ø x 150Ø TEE	101.08	98.68	2.40		
	0+003.88	50Ø SERVICE CONNECTION BUILDING 5	101.36	98.96	2.40		
	0+015.00	50Ø SERVICE CONNECTION BUILDING 5	101.81	99.41	2.40		
	0+018.00	150Ø CAP	101.94	99.54	2.40		
	0+020.13	50Ø V&VB	102.03	99.63	2.40		
	0+023.37	50Ø – 45° BEND	102.16	99.76	2.40		
	0+025.49	50Ø – 45° BEND	102.31	99.91	2.40		
G	0+027.47	50Ø SERVICE CONNECTION BUILDING 5	102.46	100.06	2.40		
F	0+000.00	150Ø x 150Ø TEE	101.08	98.68	2.40		
	0+009.88	50Ø SERVICE CONNECTION BUILDING 6	100.84	98.44	2.40		
	0+021.00	50Ø SERVICE CONNECTION BUILDING 6	100.57	98.17	2.40		
	0+023.66	150Ø CAP	100.50	98.10	2.40		
	0+025.82	50Ø V&VB	100.45	98.05	2.40		
	0+029.50	50Ø – 45° BEND	100.36	98.15	2.21		* INSULATE PER W22
	0+031.62	50Ø – 45° BEND	100.33	98.30	2.03		* INSULATE PER W22
H	0+033.44	50Ø SERVICE CONNECTION BUILDING 6	100.34	97.94	2.40		
C	0+000.00	200Ø x 200Ø CROSS	100.62	98.70	1.91		* INSULATE PER W22
	0+004.50	200Ø – 45° VERTICAL BEND	100.52	98.31	2.22		* INSULATE PER W22
	0+005.30	200Ø – 45° VERTICAL BEND	100.51	97.40	3.10		
	0+007.35	200Ø – 45° VERTICAL BEND	100.46	97.44	3.02		
	0+008.15	200Ø – 45° VERTICAL BEND	100.45	98.05	2.40		
	0+009.55	200Ø x 150Ø HYDRANT TEE	100.45	98.05	2.40		
	0+014.00	50Ø SERVICE CONNECTION BUILDING 7	100.45	98.05	2.40		
Q	0+017.80	150Ø SERVICE CONNECTION BUILDING 4	100.49	98.09	2.40		
	0+024.36	200Ø – 45° VERTICAL BEND	100.29	97.89	2.40		
	0+024.84	200Ø – 45° VERTICAL BEND	100.29	98.31	1.98		* INSULATE PER W22
	0+030.18	50Ø SERVICE CONNECTION BUILDING 7	100.25	98.34	1.91		* INSULATE PER W22
	0+034.35	200Ø – 45° VERTICAL BEND	100.34	98.37	1.96		* INSULATE PER W22
	0+034.83	200Ø – 45° VERTICAL BEND	100.35	97.95	2.40		
S	0+055.78	150Ø SERVICE CONNECTION BUILDING 3	100.26	97.86	2.40		
	0+073.36	200Ø x 150Ø HYDRANT TEE	100.28	97.88	2.40		
	0+089.03	200Ø – 45° VERTICAL BEND	100.22	97.82	2.40		
	0+089.59	200Ø – 45° VERTICAL BEND	100.21	98.32	1.89		* INSULATE PER W22
	0+091.84	200Ø – 45° VERTICAL BEND	100.20	98.32	1.88		* INSULATE PER W22
	0+092.40	200Ø – 45° VERTICAL BEND	100.22	97.82	2.40		
I	0+096.86	200Ø x 200Ø CROSS	100.43	98.03	2.40		
	0+100.60	200Ø x 150Ø REDUCER	100.33	97.93	2.40		
	0+101.13	50Ø SERVICE CONNECTION BUILDING 1	100.32	97.92	2.40		
	0+107.35	-	100.18	97.94	2.24		* INSULATE PER W22
	0+110.42	-	100.18	97.94	2.24		* INSULATE PER W22
	0+113.00	50Ø SERVICE CONNECTION BUILDING 1	100.18	97.78	2.40		
	0+115.74	150Ø CAP	100.18	97.78	2.40		
	0+117.15	50Ø V&VB	100.18	97.78	2.40		
	0+119.55	50Ø – 45° BEND	100.18	97.78	2.40		
	0+121.67	50Ø – 45° BEND	100.23	97.83	2.40		
J	0+123.04	50Ø SERVICE CONNECTION BUILDING 1	100.25	97.85	2.40		
I	0+000.00	200Ø x 200Ø CROSS	100.43	98.03	2.40		
	0+003.56	200Ø x 150Ø REDUCER	100.36	97.96	2.40		
	0+017.90	150Ø – 45° BEND	99.94	97.54	2.40		
	0+021.71	150Ø – 45° BEND	99.89	97.29	2.60		
	0+024.03	50Ø SERVICE CONNECTION BUILDING 1	99.89	97.45	2.44		
	0+035.16	50Ø SERVICE CONNECTION BUILDING 1	99.89	97.39	2.49		
	0+038.18	150Ø CAP	99.88	97.48	2.40		
	0+040.20	50Ø V&VB	99.90	97.50	2.40		
	0+042.89	50Ø – 45° BEND	99.86	97.46	2.40		
	0+045.02	50Ø – 45° BEND	100.03	97.63	2.40		
K	0+046.27	50Ø SERVICE CONNECTION BUILDING 1	100.13	97.73	2.40		
L	0+000.00	200Ø x 200Ø TEE	100.91	98.51	2.40		
	0+003.51	50Ø SERVICE CONNECTION BUILDING 2	100.92	98.52	2.40		
	0+014.64	50Ø SERVICE CONNECTION BUILDING 2	100.81	98.41	2.40		
	0+021.18	50Ø SERVICE CONNECTION BUILDING 2	100.69	98.11	2.58		
	0+023.18	200Ø – 45° BEND	100.65	98.25	2.40		
	0+028.87	200Ø – 45° BEND	100.40	98.00	2.40		
	0+029.87	200Ø MONITORING VALVE CHAMBER	100.38	97.98	2.40		
	0+031.37	200Ø V&VB	100.33	97.93	2.40		
M	0+038.37	CONNECT TO EXISTING WITH 250Ø x 200Ø TEE	100.10	97.79	2.31		
I	0+000.00	200Ø x 200Ø CROSS	100.43	98.03	2.40		
L	0+013.81	200Ø x 200Ø TEE	100.91	98.51	2.40		
	0+016.94	200Ø x 150Ø REDUCER	101.12	98.72	2.40		
	0+033.71	150Ø – 45° BEND	101.67	99.27	2.40		
	0+037.52	150Ø – 45° BEND	101.69	99.29	2.40		
	0+039.84	50Ø SERVICE CONNECTION BUILDING 2	101.65	99.25	2.40		
	0+049.46	50Ø SERVICE CONNECTION BUILDING 2	101.62	99.23	2.39		* INSULATE PER W22
	0+053.62	150Ø CAP	101.61	99.22	2.39		* INSULATE PER W22
	0+054.95	50Ø V&VB	101.56	99.16	2.40		
	0+057.21	50Ø – 45° BEND	101.45	99.05	2.40		
	0+059.33	50Ø – 45° BEND	101.29	98.89	2.40		
N	0+060.58	50Ø SERVICE CONNECTION BUILDING 1	101.25	98.85	2.40		
C	0+000.00	200Ø x 200Ø CROSS	100.62	98.70	1.91		* INSULATE PER W22
	0+000.75	200Ø – 45° VERTICAL BEND	100.63	98.70	1.93		* INSULATE PER W22
	0+001.40	200Ø – 45° VERTICAL BEND	100.64	98.24	2.40		
	0+001.72	200Ø CAP	100.65	98.25	2.40		
	0+006.71	50Ø V&VB	100.77	98.37	2.40		
O	0+009.69	50Ø SERVICE CONNECTION BUILDING 5	100.99	98.59	2.40		
B	0+000.00	150Ø x 200Ø TEE	99.81	98.03	1.79		* INSULATE PER W22
	0+004.10	150Ø – 45° VERTICAL BEND	99.81	98.07	1.74		* INSULATE PER W22
	0+004.79	150Ø – 45° VERTICAL BEND	99.81	97.41	2.40		
	0+014.00	50Ø SERVICE CONNECTION BUILDING 7	99.90	97.50	2.40		
	0+017.76	150Ø CAP	99.89	97.49	2.40		
	0+025.03	50Ø V&VB	99.85	97.45	2.40		
	0+028.68	50Ø – 45° BEND	99.83	97.43	2.40		
	0+030.80	50Ø – 45° BEND	100.10	97.70	2.40		
P	0+031.48	50Ø SERVICE CONNECTION BUILDING 7	100.19	97.79	2.40		
Q	0+000.00	200Ø x 150Ø TEE	100.49	98.09	2.40		
	0+002.95	150Ø – 45° VERTICAL BEND	100.46	98.06	2.40		
	0+003.35	150Ø – 45° VERTICAL BEND	100.47	98.46	2.02		* INSULATE PER W22
	0+005.65	150Ø – 45° VERTICAL BEND	100.59	98.46	2.13		* INSULATE PER W22
	0+006.05	150Ø – 45° VERTICAL BEND	100.61	98.21	2.40		
	0+009.53	150Ø V&VB	100.74	98.34	2.40		
R	0+013.38	150Ø SERVICE CONNECTION BUILDING 4	101.06	98.66	2.40		
S	0+000.00	200Ø x 150Ø TEE	100.26	97.86	2.40		
	0+002.95	-	100.46	98.06	2.40		
	0+003.35	-	100.47	98.46	2.02		* INSULATE PER W22
	0+005.65	-	100.59	98.46	2.13		* INSULATE PER W22
	0+006.05	-	100.61	98.21	2.40		
	0+009.53	150Ø V&VB	100.64	98.24	2.40		
T	0+013.38	150Ø SERVICE CONNECTION BUILDING 3	100.95	98.55	2.40		

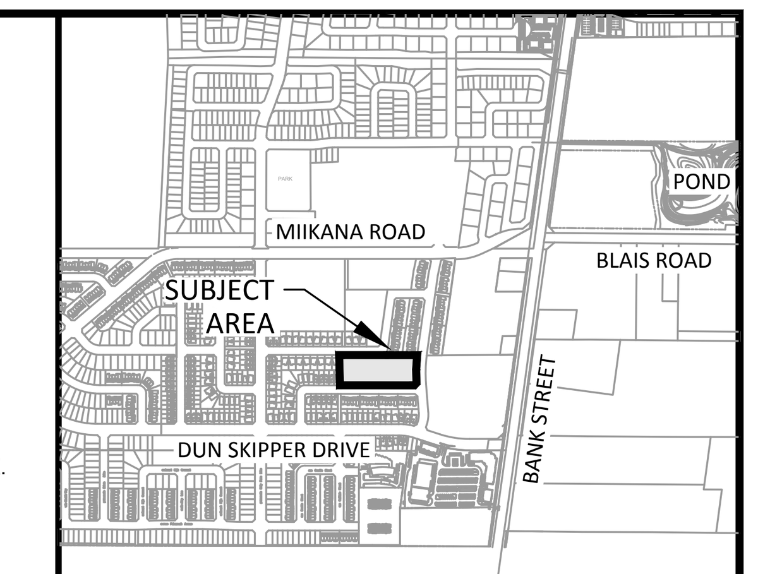
REVISED 2020-08-28

NOTES :

1. ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS & SPECIFICATIONS OR OPSD/OPSS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT APPLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION AND SHALL PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOW ON THESE DRAWINGS.
3. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT DATED JANUARY, 2020, PREPARED BY GOLDER ASSOCIATES.
4. FOR GEODETIC BENCHMARK AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL SURVEY AND PLAN OF SUBDIVISION PREPARED BY ANNIS O'SULLIVAN VOLLEBEKK LTD. BENCHMARK BASED ON CAN--NET VIRTUAL REFERENCE SYSTEM NETWORK.
5. ROADWAY SECTIONS REQUIRING GRADE RAISE TO PROPOSED SUB GRADE LEVEL TO BE FILLED WITH ACCEPTABLE NATIVE EARTH BORROW OR IMPORTED OPSS SELECTED SUBGRADE MATERIAL IF NATIVE MATERIAL IS DEFICIENT AS PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
6. IN AREAS WHERE EXISTING GROUND IS BELOW THE PROPOSED ELEVATION OF SEWER AND WATERMAINS, GRADE RAISING AND FILLING IS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. AS PER CITY GUIDELINES ALL WATERMAINS IN FILL AREAS ARE TO BE TIED WITH RESTRAINING JOINTS AND THRUST BLOCKS.
7. WHERE 50mm OR LESS FLEXIBLE WATERMAIN CONNECTS TO LARGER DIAMETER WATERMAIN, THE CONNECTION SHALL BE MADE AS PER CITY OF OTTAWA STANDARD W37.2.
8. SILT FENCE TO BE ERECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE.
9. STRAW BALE SEDIMENT TRAPS TO BE PLACED AND MAINTAINED IN EXISTING AND CONSTRUCTED ROAD SIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED (IF APPLICABLE).
10. SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS. GEOTEXTILE SILT SACK IN STREET CBs TO REMAIN UNTIL ALL CURBS ARE CONSTRUCTED. GEOTEXTILE FABRIC IN RYCBs TO REMAIN UNTIL VEGETATION IS ESTABLISHED. ALL CATCHBASINS TO BE REGULARLY INSPECTED AND CLEANED, AS NECESSARY, UNTIL SOD AND CURBS ARE CONSTRUCTED.
11. ALL CONNECTIONS TO EXISTING WATERMAINS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
12. ALL LEADS FOR STREET CB's TO AND CICB's CONNECTED TO MAIN SHALL BE 250mmØ PVC DR35 @ MIN 2% SLOPE UNLESS NOTED OTHERWISE. ALL LEADS FOR RYCB's CONNECTED TO MAIN SHALL BE 200mmØ PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.
13. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES.
14. THE COMPOSITE UTILITY PLAN HAS BEEN REVIEWED BY IBI GROUP FOR CONFORMITY TO THE DESIGN CONCEPT FOR THE DEVELOPMENT AND FOR GENERAL ARRANGEMENT ONLY AND AS SUCH SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN EITHER LAYOUT OR WORKMANSHIP.
15. THIS DRAWING IS A COMPILATION OF OTHER UTILITY DESIGNS AND DOES NOT INDICATE IN ANY WAY THAT THE PARTY SIGNING THIS DRAWING HAS DESIGNED OR APPROVED THE RESPECTIVE UTILITY PLANTS INDICATED ON THIS DRAWING. THE DRAWING WAS PREPARED TO BE USED AS REFERENCE ONLY AS PER REQUIREMENTS OF THE CITY OF OTTAWA. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE IT HAS REVIEWED THE CURRENT AND EXISTING DESIGNS BY HYDRO, STREET LIGHTING, BELL, CANADA POST, O.C. TRANSPO, CABLE TV AND ANY OTHER PARTIES INCLUDED BUT NOT MENTIONED AND COMPLETE THE INSTALLATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE STAKEHOLDER UTILITY DESIGNS.
16. THE HGL PROVIDED IS BASED ON HYDRAULIC MODELING COMPLETED USING XPSWMM AND THE 100 YEAR CHICAGO STORM EVENT (C3H10010).
17. ALL UTILITY BOXES (I.E. PEDESTALS, TRANSFORMERS, ETS) ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF OTTAWA'S "GUIDELINES FOR UTILITY PEDESTALS WITHIN THE ROAD RIGHT OF WAY"

Pipe Interference Table

Crossing No.	PIPE 1	PIPE 2	Clearance
1	STM Bottom 98.718	WTR Top 97.981	0.737
2	WTR Bottom 98.105	STM Top 97.855	0.250
3	STM Bottom 98.700	WTR Top 98.208	0.492
4	WTR Bottom 97.633	SAN Top 96.777	0.856
5	STM Bottom 97.954	WTR Top 97.453	0.501
6	STM Bottom 97.939	SAN Top 97.342	0.597
7	STM Bottom 97.612	SAN Top 96.867	0.745
8	SAN Bottom 99.394	WTR Top 98.810	0.585
9	WTR Bottom 97.929	STM Top 97.678	0.251
10	WTR Bottom 97.867	SAN Top 97.062	0.805
11	WTR Bottom 97.892	SAN Top 97.284	0.608
12	WTR Bottom 98.308	STM Top 98.058	0.250
13	STM Bottom 99.375	WTR Top 98.876	0.500
14	WTR Bottom 98.600	STM Top 98.350	0.251
15	WTR Bottom 98.780	SAN Top 98.526	0.253
16	WTR Bottom 98.204	SAN Top 97.448	0.756
17	WTR Bottom 98.101	STM Top 97.852	0.250
18	WTR Bottom 98.152	SAN Top 97.902	0.250
19	SAN Bottom 97.955	WTR Top 97.454	0.500
20	WTR Bottom 97.731	STM Top 97.481	0.250
21	WTR Bottom 97.661	SAN Top 97.380	0.282
22	WTR Bottom 97.925	SAN Top 97.672	0.253
23	STM Bottom 98.790	STM Top 97.321	1.469
24	STM Bottom 98.760	SAN Top 96.877	1.883
25	STM Bottom 98.667	WTR Top 98.161	0.506
26	STM Bottom 97.292	SAN Top 97.022	0.269
28	STM Bottom 97.662	SAN Top 97.243	0.419
29	STM Bottom 98.846	STM Top 98.302	0.544
30	STM Bottom 98.512	SAN Top 97.542	0.970
31	STM Bottom 98.237	SAN Top 97.772	0.466
32	STM Bottom 98.802	SAN Top 97.349	1.453
33	STM Bottom 98.054	SAN Top 97.395	0.660
34	STM Bottom 98.010	SAN Top 97.598	0.412
35	STM Bottom 98.059	SAN Top 97.787	0.273
36	STM Bottom 96.226	SAN Top 95.974	0.252
37	WTR Bottom 97.956	STM Top 97.221	0.735
38	SAN Bottom 99.237	STM Top 97.072	2.165
39	SAN Bottom 99.237	STM Top 97.183	2.054
40	SAN Bottom 97.600	STM Top 97.263	0.337
41	SAN Bottom 98.571	STM Top 96.977	1.594
42	SAN Bottom 98.389	STM Top 97.514	0.875
43	SAN Bottom 98.389	STM Top 97.903	0.486
44	STM Bottom 99.345	SAN Top 98.133	1.212
46	SAN Bottom 98.639	WTR Top 98.107	0.532
47	SAN Bottom 99.330	WTR Top 98.215	1.115
48	SAN Bottom 99.330	WTR Top 98.494	0.837
49	WTR Bottom 99.063	SAN Top 98.814	0.250
50	WTR Bottom 99.116	SAN Top 98.814	0.302
51	WTR Bottom 97.900	SAN Top 96.909	0.991
52	SAN Bottom 97.955	WTR Top 97.455	0.500
53	WTR Bottom 97.780	SAN Top 97.512	0.268
54	WTR Bottom 98.243	SAN Top 97.993	0.250
55	WTR Bottom 99.922	SAN Top 99.495	0.427
56	SAN Bottom 99.319	WTR Top 98.958	0.361
57	SAN Bottom 99.319	WTR Top 98.572	0.746
58	WTR Bottom 98.012	SAN Top 97.762	0.250



KEY PLAN
N.T.S.

NOTES:

1. SEE DRAWING C-010, C-011 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK OBTAINED FROM LEGAL SURVEYOR ANNIS O'SULLIVAN VOLLEBEKK LTD. TOP SPINDLE OF HYDRANT ON PINGWI PLACE, ELEV.=102.60m

No.	REVISIONS	By	Date
14			
13			
12			
11			
10			
9			
8			
7			
6			
5			
4			
3			
2	REVISED AS PER CITY COMMENTS	DGY	2020.09.18
1	ISSUED FOR SPA	DGY	2019.12.18

DCR/PHOENIX GROUP OF COMPANIES

IBI GROUP
400 – 333 Preston Street
Ottawa ON K1S 5N4 Canada
tel 613 225 1311 fax 613 225 9868
ibigroup.com

Project Title

1055 CEDAR CREEK DRIVE

LICENSED PROFESSIONAL ENGINEER
D. G. Yannoulopoulos
2020/09/18
PROVINCE OF ONTARIO

Drawing Title

GENERAL NOTES, LEGEND AND CB DATA TABLE

Scale: N.T.S.	
Design: RM/WZ	Date: SEPT, 2019
Drawn: DPS/WZ	Checked: DGY
Project No.: 121793	Drawing No.: 010

D07-12-20-0037

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