

- LEGEND**
- PROPERTY LINE
 - PROPOSED SERVICE
 - PROPOSED STANDPOST
 - PROPOSED CAP
 - PROPOSED WATER METER
 - PROPOSED REMOTE METER
 - PROPOSED SANITARY SERVICE
 - PROPOSED STORM SERVICE
 - PROPOSED PERFORATED STORM PIPE
 - PROPOSED STORM CBMH
 - PROPOSED STORM MANHOLE
 - PROPOSED CATCHBASIN
 - ROOF DOWNSPOUT LOCATION
 - EASEMENT
 - 100 YEAR WATER LEVEL LIMIT
 - 100 YEAR PLUS STRESS TEST LIMIT
- GENERAL NOTES:**
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
 - OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
 - BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
 - RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWED TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.
 - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
 - ALL ELEVATIONS ARE GEODETIC.
 - REFER TO ARCHITECTS AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
 - SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
 - CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL SERVICES AS-BUILT INFORMATION SHOWN ON THIS PLAN, AS BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND TIG ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, TWM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.
 - ROOF TO BE SLOPED AND ASPHALTIC.

- WATERMAIN NOTES:**
- SPECIFICATIONS:

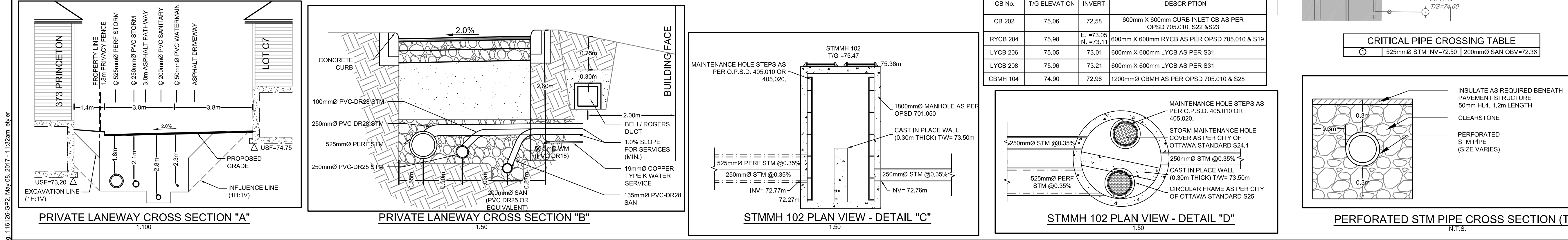
ITEM	SPEC. No.	REFERENCE
WATERMAIN TRENCHING	W17	CITY OF OTTAWA
THERMAL INSULATION IN SHALLOW TRENCHES	W22	CITY OF OTTAWA
THERMAL INSULATION AT OPEN STRUCTURES	W23	CITY OF OTTAWA
WATERMAIN SERVICE (100mm DIA.)	W35 & W38	CITY OF OTTAWA
WATERMAIN SERVICE (50mm DIA.)	W35 & W38	CITY OF OTTAWA
WATERMAIN SERVICE	TYPE K SOFT COPPER / PEX	CITY OF OTTAWA
WATER METER	W32	CITY OF OTTAWA
PRESSURE REDUCING VALVE	MW18.5.4.1	CITY OF OTTAWA
 - SUPPLY AND CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARD AND SPECIFICATIONS, EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMANS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SERVICE SHALL BE PERFORMED BY CITY OFFICIALS.
 - WATERMAIN SERVICE SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.
 - PROVIDE MINIMUM 0.30m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS WITH A 10m ROLL.
 - WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED. PROTECT COPPER SERVICE @ BUILDING FOOTPRINT WITH PLYWOOD SHEET/PAPER.

- SEWER NOTES:**
- SPECIFICATIONS:

ITEM	SPEC. No.	REFERENCE
SEWER TRENCH - BEDDING (GRANULAR A)		OPSD
COVER (GRANULAR A OR GRANULAR B TYPE I, WITH MAXIMUM PARTICLE SIZE=25mm)		OPSD
 - SANITARY SEWER: PVC DR 25
 - SANITARY SERVICE LATERAL: PVC DR 25
 - STORM SEWER: CONC. OR PVC DR 25 (AS SPECIFIED)
 - STORM SERVICE LATERAL: PVC DR 25
 - SEWER SERVICE CONNECTIONS: S 11

SANITARY AND STORM SERVICES DATA				WATERMAIN TABLE				
BUILDING NO.	USE/ELEVATION	INVERT	STM INVERT	TWM	STATION	SURFACE ELEVATION	TOP OF WM ELEVATION	DESCRIPTION
A1	75.10	74.80	74.25	74.75	0+00.00	75.15	72.74	CONNECTION TO EXISTING 200mm WM
A2	74.85	74.55	74.00	74.50	0+02.91	75.26	72.86	CROSSING OVER SAN (INV=72.02)
A3	74.15	73.85	73.30	74.80	0+05.55	75.19	72.79	CROSSING OVER STM (INV=72.49)
B1	74.70	74.40	73.85	74.35	0+06.86	75.18	72.78	EDGE OF ASPHALT
B2	74.70	74.40	73.85	74.35	0+10.00	75.30	72.90	
B3	74.15	73.85	73.30	74.80	0+11.14	75.34	72.94	PROPERTY LINE / CORPORATION STOP
B4	74.15	73.85	73.30	74.80	0+02.52	75.19	72.79	SERVICE CONNECTION BUILDING C7
B5	74.15	73.85	73.30	74.80	0+04.00	75.12	72.72	SERVICE CONNECTION BUILDING C7
B6	74.15	73.85	73.30	74.80	0+04.44	75.10	72.72	SERVICE CONNECTION BUILDING C7
C1	74.60	74.30	73.75	74.25	0+05.86	75.09	72.68	SERVICE CONNECTION BUILDING C2
C2	74.60	74.30	73.75	74.25	0+07.19	75.04	72.64	50mm X 19mm REDUCER
C3	74.65	74.35	73.80	74.30	0+08.70	75.05	72.65	SERVICE CONNECTION BUILDING C1
C4	74.65	74.35	73.80	74.30				
C5	74.75	74.45	73.90	74.40				
C6	74.75	74.45	73.90	74.40				
C7	74.75	74.45	73.90	74.40				

* EXACT DEPTH OF EXISTING WATERMAIN TO BE DETERMINED AT TIME OF EXCAVATION. PROVIDE THERMAL INSULATION AS PER CITY OF OTTAWA DETAIL W22 WHERE COVER IS LESS THAN 2.4m

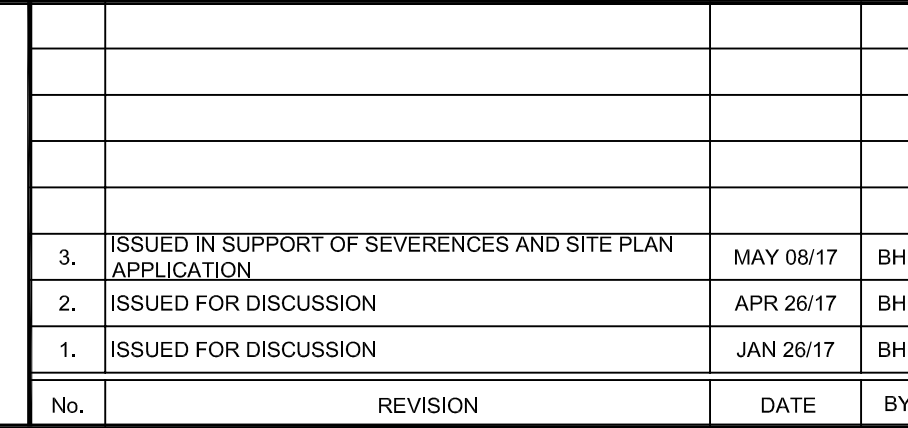


NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

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No.	REVISION	DATE	BY
3.	ISSUED IN SUPPORT OF SEWERAGES AND SITE PLAN APPLICATION	MAY 08/17	BHB
2.	ISSUED FOR DISCUSSION	APR 26/17	BHB
1.	ISSUED FOR DISCUSSION	JAN 26/17	BHB



FOR REVIEW ONLY

EST: BHB

CHKD: BHB

DRWN: BHB

APPV: BHB

JGR

SCALE: 1:200

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LOCATION: CITY OF OTTAWA, 373 PRINCETON

DRAWING NAME: **ULTIMATE GENERAL PLAN OF SERVICES**

PROJECT NO.: 116126-00
REV: #3
DRAWING NO.: 116126-GP2