

LEGEND

PROPERTY LINE	DIRECTION OF FLOW
PROPOSED WATER SERVICE	PROPOSED PIPE INSULATION
PROPOSED STANDPOST	EXISTING WATERMAIN CW VALVE & VALVE CHAMBER
PROPOSED WATER METER	EXISTING HYDRANT CW VALVE & LEAD
PROPOSED REMOTE METER	EXISTING SANITARY MANHOLE & SEWER
PROPOSED SANITARY SERVICE	EXISTING STORM MANHOLE & SEWER
PROPOSED SANITARY MANHOLE	EXISTING CATCHBASIN
PROPOSED STORM SERVICE	EXISTING GAS MAIN
PROPOSED PERFORATED STORM PIPE	EXISTING OVERHEAD WIRES
PROPOSED STORM CBMH	EXISTING BELL WIRE
PROPOSED STORM MANHOLE	PROPOSED ROAD CUT AND ASPHALT REINSTATEMENT AS PER R10
PROPOSED CATCHBASIN	EXISTING TREE
ROOF DOWNSPOUT LOCATION	300mm OF AMENDED TOPSOIL OR 100mm OF TOPSOIL AND 500 UNDERLAIN BY 200mm OF COARSE SAND
EASEMENT	GABION STONE
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 ALLOWANCES 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 SERVICING 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 COLORATION 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 SHEETPIPER.

- ### 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	CITY OF OTTAWA

BUILDING NO.	USE/ ELEVATION	INVERT	STM INVERT	TWM
A1	75.10	74.80	74.25	74.75
A2	74.85	74.55	74.00	74.50
A3	74.15	73.85	73.30	74.80
B1	74.70	74.40	73.85	74.35
B2	74.70	74.40	73.85	74.35
B3	74.15	73.85	73.30	74.80
B4	74.15	73.85	73.30	74.80
B5	74.15	73.85	73.30	74.80
B6	74.15	73.85	73.30	74.80
C1	74.60	74.30	73.75	74.25
C2	74.60	74.30	73.75	74.25
C3	74.65	74.35	73.80	74.30
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

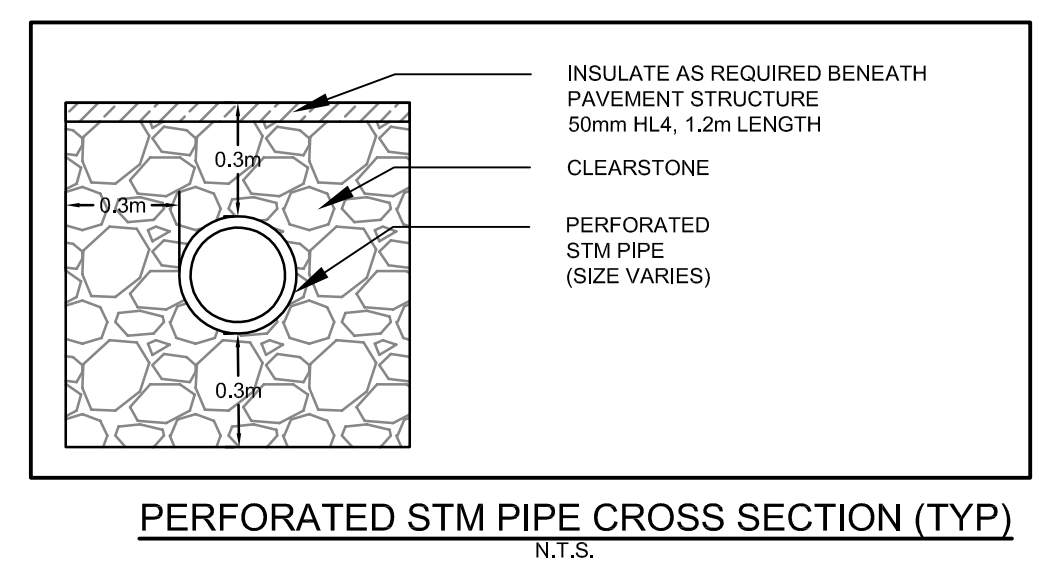
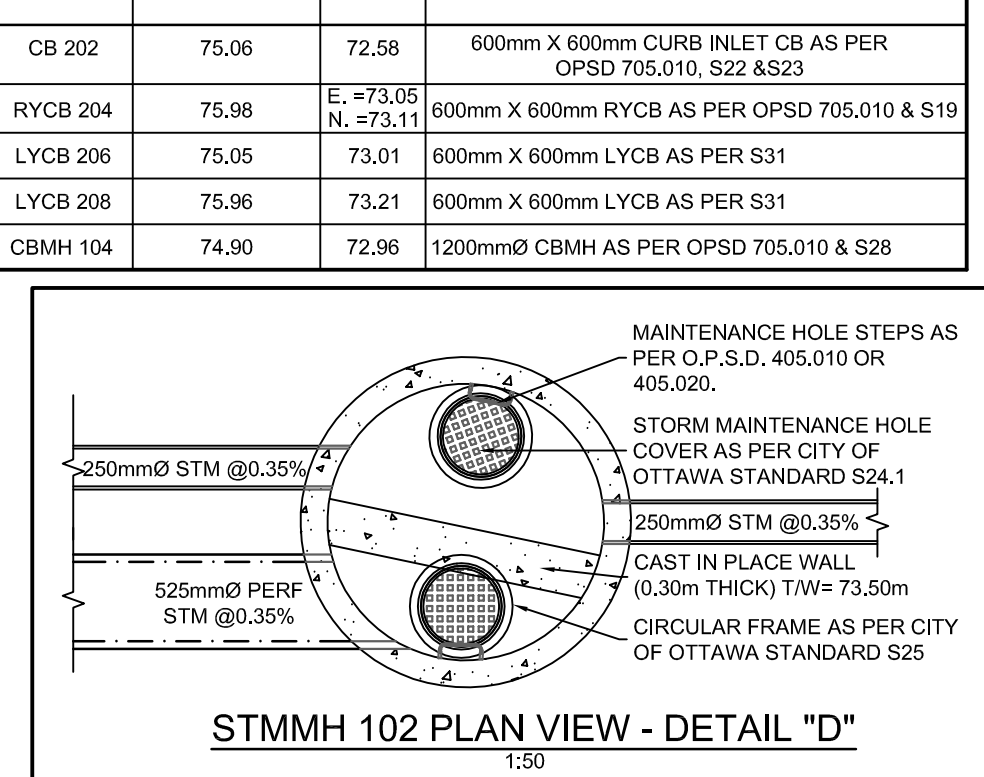
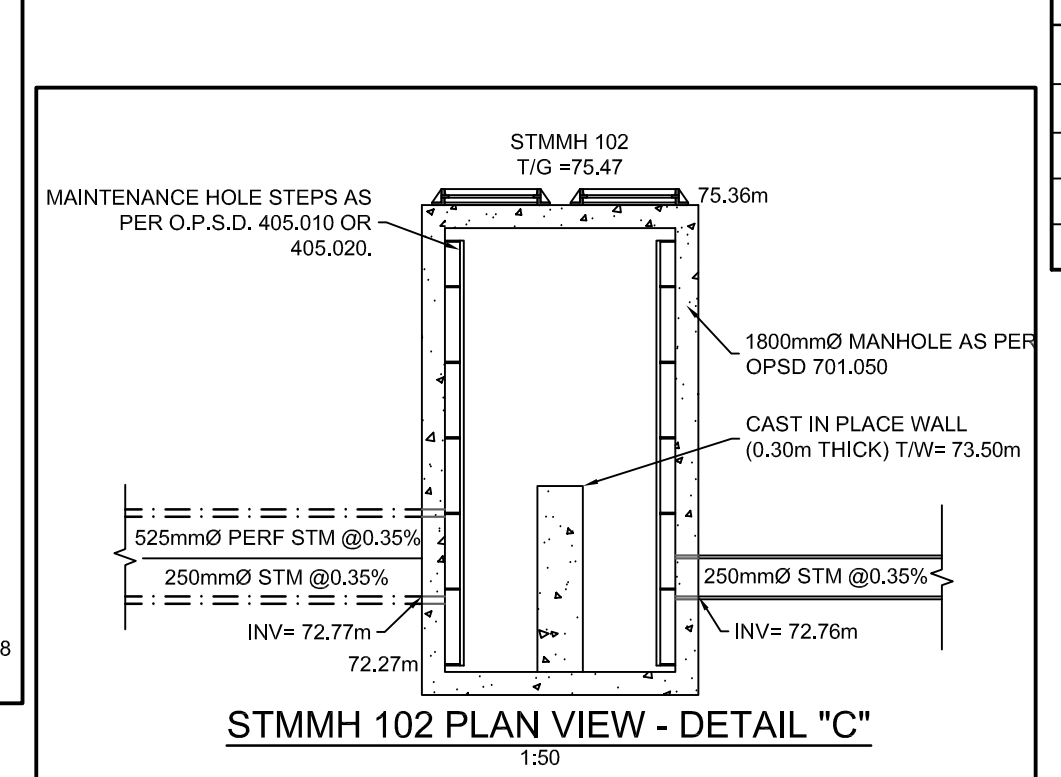
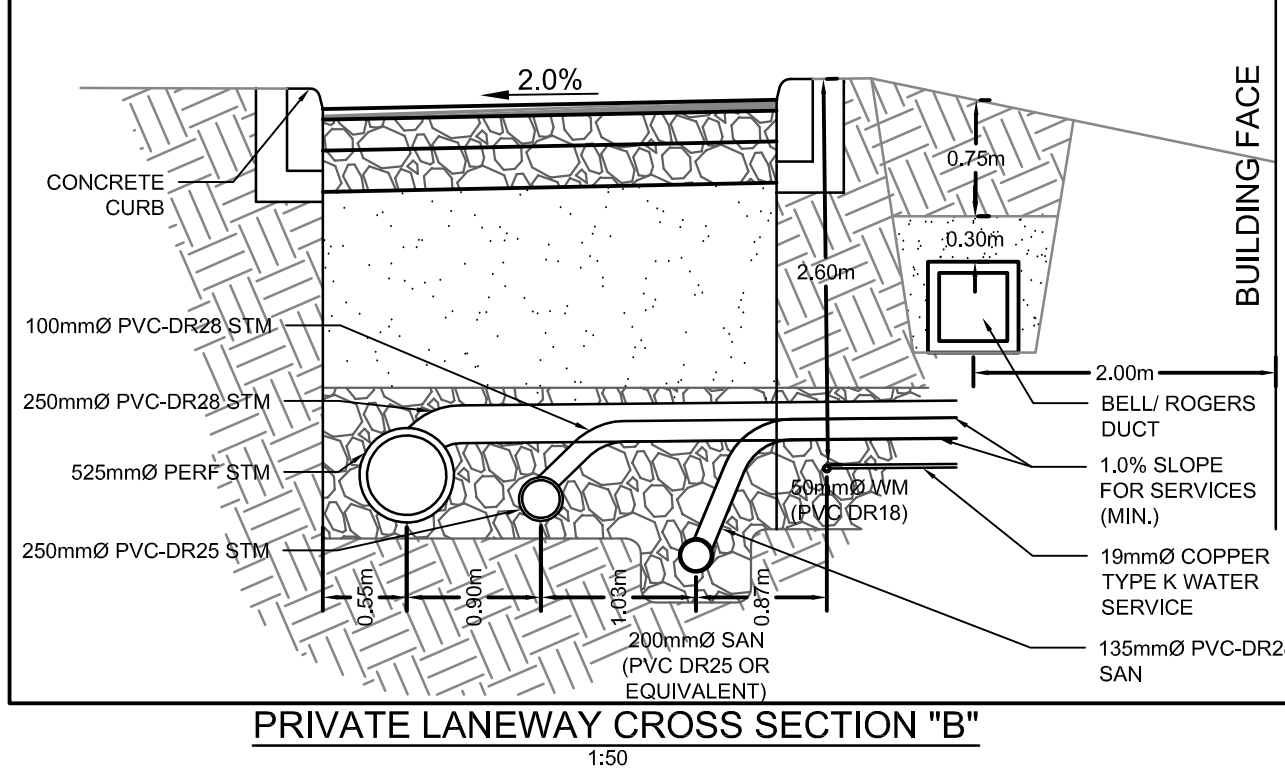
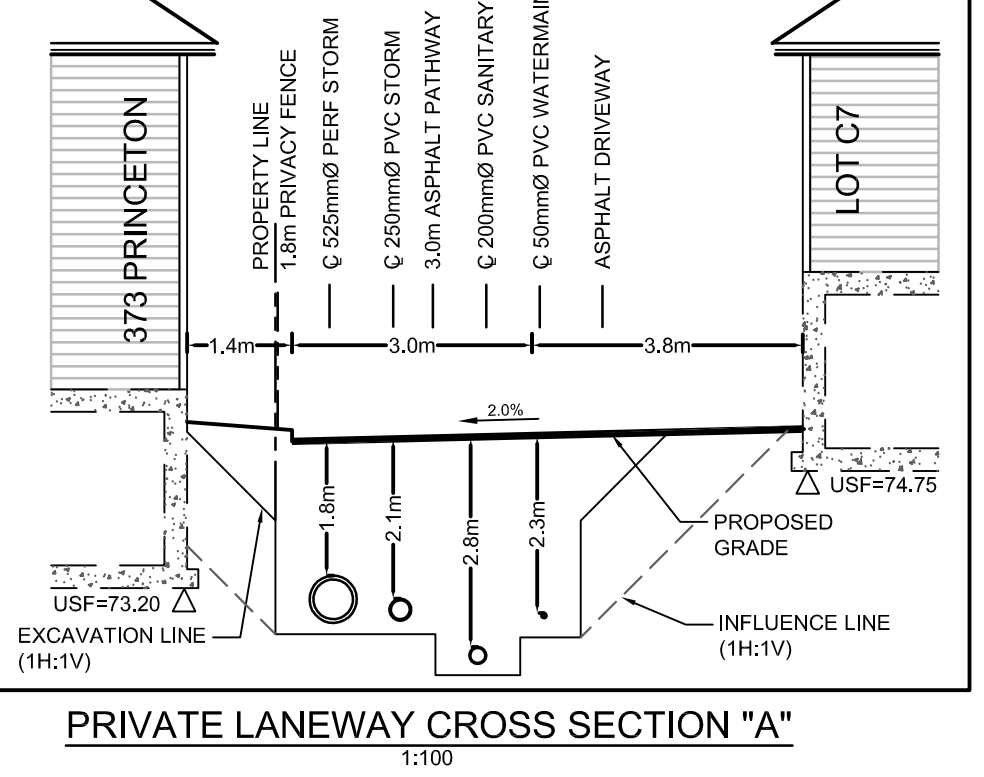
STATION	SURFACE ELEVATION	TOP OF WM ELEVATION	DESCRIPTION
0+00.00	76.15	72.74	CONNECTION TO EXISTING 200mm WM
0+02.91	75.26	72.86	CROSSING OVER SAN (INV=72.02)
0+05.55	75.19	72.79	CROSSING OVER STM (INV=72.49)
0+06.48	75.18	72.78	EDGE OF ASPHALT
0+10.00	75.30	72.90	-
0+11.14	75.34	72.94	PROPERTY LINE / CORPORATION STOP
0+20.00	75.28	72.88	SERVICE CONNECTION BUILDING C7
0+20.15	75.28	72.88	SERVICE CONNECTION BUILDING C7
0+21.44	75.10	72.72	SERVICE CONNECTION BUILDING C3
0+22.52	75.19	72.79	SERVICE CONNECTION BUILDING C5
0+40.00	75.12	72.72	SERVICE CONNECTION BUILDING C4
0+41.44	75.12	72.72	SERVICE CONNECTION BUILDING C3
0+47.63	75.10	72.70	SERVICE CONNECTION BUILDING C5
0+50.00	75.10	72.70	SERVICE CONNECTION BUILDING C2
0+53.86	75.09	72.68	50mm X 19mm REDUCER
0+57.19	75.04	72.64	SERVICE CONNECTION BUILDING C1
0+69.70	75.05	72.65	SERVICE CONNECTION BUILDING C1

CATCHBASIN TABLE

CB No.	TIG ELEVATION	INVERT	DESCRIPTION
CB 202	75.06	72.58	600mm X 600mm CURB INLET CB AS PER OPSD 705.010, S22 & S23
RVCB 204	75.96	N. 73.11	600mm X 600mm RVCB AS PER OPSD 705.010 & S19
LYCB 206	75.05	73.01	600mm X 600mm LYCB AS PER S31
LYCB 208	75.96	73.21	600mm X 600mm LYCB AS PER S31
CBMH 104	74.90	72.96	1200mm X 600mm CBMH AS PER OPSD 705.010 & S28

CRITICAL PIPE CROSSING TABLE

ITEM	SPEC. No.	REFERENCE
525mm STM (INV=72.50)		
200mm SAN (OV=72.36)		



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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aferro@uniformdevelopments.com

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

SCALE: 1:200

FOR REVIEW ONLY

EST: BHB

EST: BHB

APPROVED: JGR

PROFESSIONAL ENGINEER
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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

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