

## GENERAL NOTES:

1) COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.

- 2) 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.
- 3) OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
- 4) BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED AND THE CITY OF OTTAWA AS THIRD PARTY.
- 5) 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.
- 6) 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.
- 7) ALL ELEVATIONS ARE GEODETIC. SITE BENCHMARK IS A HYDRANT LOCATED IN FRONT OF THE SUBJECT SITE.
- 8) REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND DIMENSIONS.9) SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
- ALL ROAD CUTS TO BE REINSTATED WITH FULL MILL OVERLAY AS PER CITY OF OTTAWA STANDARDS (R10). 10) 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 T/G ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, T/WM ELEVATIONS AND ANY ALIGNMENT
- CHANGES, AND ALL SURFACE ELEVATION AS-BUILT GRADES. 11) NO EXCESS DRAINAGE SHALL BE DIRECTED ONTO NEIGHBOURING PROPERTY.
- 12) NO ALTERATIONS TO EXISTING GRADES ARE PERMITTED BEYOND THE PROPERTY LINE.
- 13) REFER TO ARCHITECT'S DRAWINGS FOR ADDITIONAL DETAILS ON THE PROPOSED BUILDING ADDITION / RETROFITS.

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- 14) REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR ADDITIONAL DETAILS ON THE HARDSCAPE AND SOFTSCAPE AREAS, AND
- 15) REFER TO THE 'SERVICING BRIEF AND STORMWATER MANAGEMENT REPORT' (R-2022-011) DATED FEBRUARY 2, 2022 PREPARED BY NOVATECH FOR ADDITIONAL DETAILS ON THE SITE SERVICING AND STORMWATER MANAGEMENT FOR THE SUBJECT SITE.

## WATERMAIN NOTES:

PLANTINGS.

) SPECIFICATIONS:	
ITEM	
WATERMAIN TRENCHING	

	<u> 0 - LO. NO.</u>
WATERMAIN TRENCHING	W17
THERMAL INSULATION IN SHALLOW TRENCHES	W22
THERMAL INSULATION AT OPEN STRUCTURES	W23
WATERMAIN CORSSING ABOVE SEWERS	W25.2
WATERMAIN SERVICE (150mmØ)	PVC DR 18
WATER METER	W32

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 2) SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARD AND SPECIFICATIONS. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMAINS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY FORCES.
3) WATERMAIN SERVCE SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.

4) PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS, UNLESS OTHERWISE INDICATED.

	SEW	/ER	NO	res:
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OF THE PIPE.

1) SPECIFICATIONS: ITEM	SPEC. No.	REFERENCE
SEWER TRENCH BEDDING (GRANULAR A)	S6 & S7	CITY OF OTTAWA
COVER (GRANULAR A OR GRA WITH MAXIMUM PARTICLE SIZ	NULAR B TYPE I WITH MAXIMUM PA E=25mm)	ARTICLE SIZE = 25mm)
SANITARY SERVICE STORM SEWER	PVC DR 28 CONC. OR PVC DR 35 (AS	
SEWER CONNECTIONS BACKWATER VALVE TYPE	S 11 S 14 AND EITHER S14.1 C	CITY OF OTTAWA

2) SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARD AND SPECIFICATIONS.

3) ALL STORM AND SANITARY SERVICE LATERALS SHALL BE EQUIPPED WITH BACKFLOW PREVENTERS WITHIN THE BUILDING FOOTPRINT AS PER CITY OF OTTAWA STANDARD DETAILS S14, AND S14.1 OR S14.2. REFER TO MECANICAL PLANS FOR DETAILS.

4) INSULATE ALL SEWER PIPES THAT HAVE LESS THAN 2.0m COVER WITH HI-40 INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.

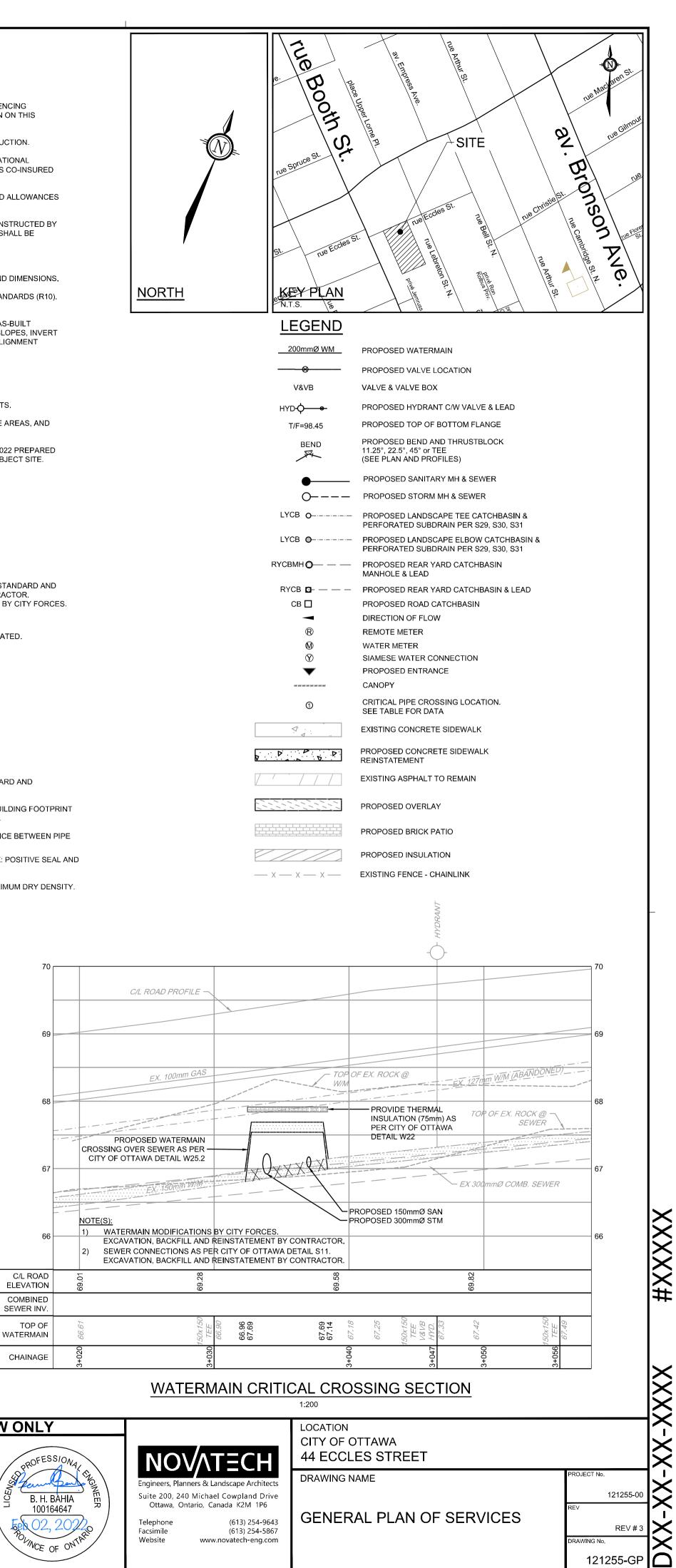
5) FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.

6) PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.

	STORM	I MANHO	OLE AND CATCHBASIN TABLE
CB No.	T/G ELEVATION	INVERT	DESCRIPTION
CB2	68.35	67.22	600mm x 600mm CB (OPSD 705.010), W/ 600mm SUMP & S19.1 COVER
STM MH001	68.94	N. =67.14 S. =67.15 SE. =67.15	

CB No. ICD TYPE (IPEX MODEL #) DIAMETER OF OUTLET PIPE DESIGN DESIGN WATER DESIGN DESIGN W	INLET CONTROL DEVICE TABLE								
CB No. ICD TYPE (IPEX MODEL #) OUTLET PIPE DESIGN DESIGN WATER DESIGN DESIGN W									
	CB No.	ICD TYPE (IPEX MODEL #)							WATER ELEV.
CB2     TEMPEST VORTEX LMF 105     300mm Ø     10.5 L/s     1.15m     68.52m     11.0 L/s     1.27m     6	CB2	TEMPEST VORTEX LMF 105	300mm Ø	10.5 L/s	1.15m	68.52m	11.0 L/s	1.27m	68.64m

С	RITICAL PIPE CROS	SING TABLE
1	150mmØ TOP OF WM=67.69	300mmØ STM OBV=67.22
2	150mmØ TOP OF WM=67.69	150mmØ SAN OBV=67.21



				SCALE	DESIGN	FOR REVIEW ONLY	
				1:200	AN CHECKED BCS DRAWN	PROFESSIONAL BROFESSIONAL	
3.	ISSUED FOR CITY REVIEW	FEB 02/22	BHB	1:200	AN		<u>;</u> )
2.	ISSUED FOR COORDINATION	JAN 21/22	внв		BCS	<b>AEB</b> 2, 2027 <b>Set O2</b> , 2022	
1.	ISSUED FOR COORDINATION	JAN 11/22	BHB		APPROVED	BOLINCE OF ONTRE	,
No.	REVISION	DATE	BY		внв		