

STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

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									- 60.00
									-
									59.00
NE OF ROAD GRADE									_
								EX. FIRE HYD	58.00
		IH-COMB.							
DRTION OF EXISTING 50mm@ AND PROVIDE NEW SERVIC PVC WATERMAIN EXTENSIC	CE CONNECTIONS	EX. N							
					ONCE THE NEW WATERMAIN E	EEXISTING			- 57.00
		45	EX.		50mmØ COPPER WATERMAIN THE MAIN PER CITY STANDAR				-
			M CAP						56.00
				0			EX. 150mm@ PVC	14/4 7777	-
	CONNECT TO	EXISTING			EX. 610mmØ CONC. COMBINED	SEWER	EX. 150mmø PVC ABANDONED 300mmø COMBINED SE	WATERMAIN () WER	55.00
	150mmØ PVC WATERM WITH 200mm x 150mm F	AIN STUB							
ION									
	00.47	T/G=58.26	58.19		0 2 2	0.77	27.73	107 42	EXISTING GROUND ELEVATION
ව PVC DR18 දි IN EXTENSION දිදි	N 20 20		<b>55.88</b> <i>55.88±</i>	<i>55.83±</i>	EX.	150mmØ PVC WATERMAII	V	55.36±	TOP OF WATERMAIN ELEVATION
		INV=55.66 INV=55.19	REDUCER)		EX. 610mmØ CONCRETE C	COMBINED SEWER @ 0.5%			COMBINED SEWER INVERTS
		COMB.	200x150 CAP	E TEE				<i>Q</i> , <i>k</i>	DESCRIPTION
++040		EX. MH	1+049.2(200x150 F <i>EX. WM CAP</i> 1+050	SERVIC			1+070	EX. FH P	
					SCALE	DESIGN	FOR REVI	EW ONLY	
					1:150 0 2 4 6	CHECKED			NO
						MS DRAWN		M. SAVIC 100102651	Engineers, Pla Suite 200, 2
					1:75 0 1 2 3	DWM / SM			Telephone
1 ISSUED FOR SITE			FEB 17/22			APPROVED		BOUNCE OF ONTRAD	Facsimile Website
No.	REVISION		DATE	BY		MS			



BEARINGS ARE MTM GRID AND ARE REFERRED TO THE SOUTHERLY LIMIT OF LARCH STREET, HAVING A BEARING OF N 66° 23' 20" E AS SHOWN ON A SURVEYOR'S REAL PROPERTY REPORT BY ANNIS, O'SULLIVAN, VOLLEBEKK DATED NOVEMBER 2, 2017

THE EXISTING GRADES SHOWN ON THE PLANS ARE TAKEN DIRECTLY FROM SURVEYORS REAL PROPERTY REPORT PLAN (Ref. # 20-10-126-00), PREPARED BY J.D.BARNES LIMITED SIGNED AND DATED OCTOBER 22, 2020.

SURROUNDING BACKGROUND TOPO INFORMATION BEYOND THE LIMITS OF THE SITE SURVEY ARE FROM CITY OF OTTAWA MAPPING AND UCC PLANS SHOWING CONTEXT ONLY.

## **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 \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
- 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 MUNICIPAL AUTHORITIES.
- 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.
- 8. REFER TO GEOTECHNICAL INVESTIGATION REPORT (NUMBER PG6071-1, REV.1), DATED FEBRUARY 11, 2022, PREPARED BY PATERSON GROUP INC., FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
- 9. REFER TO MECHANICAL PLAN FOR ROOF DRAIN INFORMATION.
- 10. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACED AREAS AND DIMENSIONS.
- 11. REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT'
- (R-2022-001) PREPARED BY NOVATECH. 12. SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE-IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

## WATERMAIN NOTES:

- 1. SUPPLY AND CONSTRUCT ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS - ALL CURRENT VERSIONS AND 'AS AMENDED'. 2. SPECIFICATIONS:
- SPEC W17 <u>ITEM</u> WATERMAIN TRENCHING THERMAL INSULATION IN SHALLOW TRENCHES W22 THERMAL INSULATION BY OPEN STRUCTURES W23 WATERMAIN CROSSING BELOW SEWERS W25 WATERMAIN MATERIAL PVC D

No.	REFERENCE
	CITY OF OTTAWA
DR 18	(100mm AND LARGER)

- 3. 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 OFFICIALS. EXCAVATION, INSTALLATION OF SERVICE, BACKFILL AND RESTORATION BY THE CONTRACTOR.
- 4. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED. 5. PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS, UNLESS OTHERWISE INDICATED.

ονλτέςμ	LOCATION CITY OF OTTAWA 15 LARCH STREET				
ers, Planners & Landscape Architects 200, 240 Michael Cowpland Drive awa, Ontario, Canada K2M 1P6 one (613) 254-9643 le (613) 254-5867 e www.novatech-eng.com	WATERMAIN EXTENSION PLAN AND PROFILE (1+000 to 1+080 © LARCH STREET)	PROJECT No. 120251 REV REV # 1 DRAWING No. 120251-PR1			
	PLANA1.DWG - 841mmx594n	<sup>7/7</sup> PLAN #1			