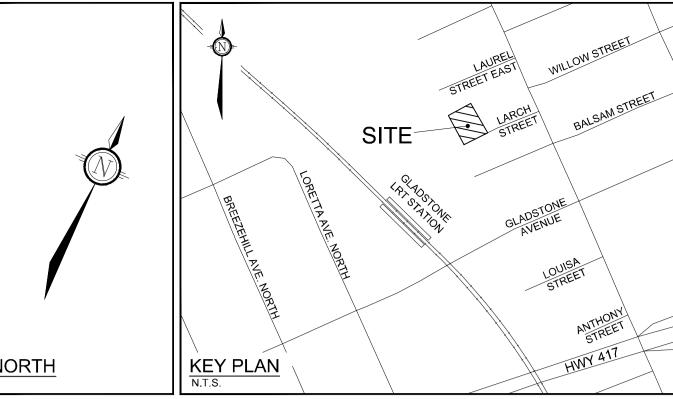


DATE

REVISION

DAMAGE TO THEM.



RD o	PROPERTY LINE PROPOSED CONTROLLED FLOW ROOF DRAIN	— x — x —	PROPOSED FENCE AND GATE
(M) (RM)	PROPOSED WATER METER AND REMOTE METE	<i>OHW</i>	EXISTING OVERHEAD WIRES
0 0	PROPOSED WATER METER AND REMOTE METE		EXISTING CONCRETE CURB
DD 🛛	PROPOSED DECK DRAIN	SANMH —	FXISTING SANITARY MANHOLF & SEWER
	PROPOSED BUILDING ENTRANCE	CBMH 🔘	EXISTING CATCHBASIN MANHOLE
	PROPOSED WATER SERVICE	STMMH O	EXISTING STORM MANHOLE & SEWER
<b>- →</b> -	PROPOSED STORM SERVICE	CB O	EXISTING CATCHBASIN C/W
	PROPOSED SANITARY SERVICE	LIVO - V&VB	CATCHBASIN LEAD
VB ⊗	PROPOSED VALVE AND VALVE BOX	7772 - Q ⊗	EXISTING HYDRANT & VALVE
T/FND	TOP OF FOUNDATION WALL ELEVATION	(.)	EXISTING TREES / VEGETATION
BFE	BASEMENT FLOOR ELEVATION	EXUPO	EXISTING UTILITY POLE
USF	UNDERSIDE OF FOOTING ELEVATION		EVIOTINO FENOE
SBSE	SUB-BASEMENT SLAB ELEVATION	<del></del>	EXISTING FENCE
USLF	UNDERSIDE OF LOW FOOTING ELEVATION	300mmØ WM	EXISTING WATERMAIN
X	REMOVAL AND/OR ABANDONMENT	HYD_ <u></u> - &	EXISTING HYDRANT CM VALVE & LEAD
	THERMAL INSULATION FOR SHALLOW SEWERS		

## **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
- 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.
- 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
- 12. SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE-IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

## **SEWER NOTES:**

1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS USING THE CURRENT GUIDELINES, BYLAWS AND STANDARDS INCLUDING MATERIALS OF CONSTRUCTION, DISINFECTION AND ALL RELEVANT REFERENCES TO OPSS, OPSD & AWWA GUIDELINES - ALL CURRENT VERSIONS AND 'AS AMENDED'.

SPECIFICATIONS:

VI_	SPEC. NO.	KELEKENCE
DRM / CATCHBASIN MANHOLE (1200mmØ)	701.010	OPSD
DRM / CBMH MANHOLE FRAME AND COVER	401.010 - TYPE "B"	OPSD
IDSCAPE DRAIN (ELBOW, COVER & PIPE)	S29 / S31	CITY OF OTTAWA
VER TRENCH	S6	CITY OF OTTAWA
DRM SERVICE / SEWER	PVC DR 35 (HDPE for LD SYS	TEM)
NTARY SERVICE	PVC DR 35	

- 3. THE SANITARY SERVICE LATERAL SHALL BE EQUIPPED WITH A BACKFLOW PREVENTER WITHIN THE BUILDING FOOTPRINT AS PER CITY OF OTTAWA STANDARD DETAILS S14.1 OR S14.2, REFER TO MECHANICAL PLANS FOR DETAILS.
- THE STORM SERVICE LATERAL SHALL BE EQUIPPED WITH A BACKFLOW PREVENTER WITHIN THE BUILDING FOOTPRINT AS PER CITY OF OTTAWA STANDARD DETAILS S14. REFER TO MECHANICAL PLANS FOR DETAILS.
- PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY
- DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED. INSULATE ALL SEWER PIPES THAT HAVE LESS THAN 1.8m COVER WITH UP TO 125mm THICK HI-40 RIGID INSULATION.
- 7. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL APPLICABLE 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 AND ANY ALIGNMENT CHANGES, ETC.
- THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24 DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL

## **WATERMAIN NOTES:**

- SUPPLY AND CONSTRUCT ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS - ALL CURRENT VERSIONS AND 'AS AMENDED'. THRUST BLOCK RESTRAINTS OF WATERMAIN AND FITTINGS SHALI BE IN ACCORDANCE WITH THE CITY OF OTTAWA SPECIFICATIONS F-4492.
- 2. SPECIFICATIONS

	SEEC. NO.	KELEKENCE
WATERMAIN TRENCHING	W17	CITY OF OTTAWA
HYDRANT INSTALLATION	W19	CITY OF OTTAWA
THERMAL INSULATION IN SHALLOW TRENCHES	W22	CITY OF OTTAWA
THERMAL INSULATION BY OPEN STRUCTURES	W23	CITY OF OTTAWA
WATERMAIN CROSSING OVER SEWER	W25.2	CITY OF OTTAWA
CONCRETE THRUST BLOCKS (UNDER 400mmØ)	W25.3	CITY OF OTTAWA
THRUST BLOCK TABLE (UNDER 400mmØ)	W25.4	CITY OF OTTAWA
WATERMAIN MATERIAL	PVC 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.
- WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED
- PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS, UNLESS OTHERWISE INDICATED.
- 6. WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.

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7	CITY OF 15 LARC		
nitects	DRAWING		
Drive P6			

LOCATION OTTAWA CH STREET NAME

GENERAL PLAN OF SERVICES

120251-GP

12025

REV # 8

PLAN #18698