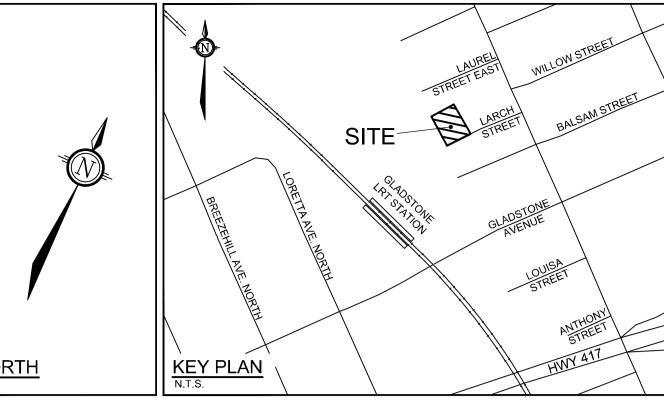


DATE

REVISION



| <u>LEGEND:</u>   |   |                              |  |
|------------------|---|------------------------------|--|
|                  | PROPERTY LINE   | —— - — <del>]</del>          | WATERMAIN CAP                              |
| RD o             | PROPOSED CONTROLLED FLOW ROOF DRAIN                           | — x — x —                    | PROPOSED FENCE AND GATE                    |
| (M) (RM)         | PROPOSED WATER METER AND REMOTE METE                          | R —— OHW ——                  | EXISTING OVERHEAD WIRES                    |
| DD 🗖             | PROPOSED DECK DRAIN   |                              | EXISTING CONCRETE CURB                     |
| $\blacksquare$   | PROPOSED BUILDING ENTRANCE                                    | SANMH                        | EXISTING SANITARY MANHOLE & SEWER          |
|                  | PROPOSED WATER SERVICE  | CBMH 🔘                       | EXISTING CATCHBASIN MANHOLE                |
| <b>- →</b> -     | PROPOSED STORM SERVICE  | STMMH O                      | EXISTING STORM MANHOLE & SEWER             |
|                  | PROPOSED SANITARY SERVICE                                     | CB                           | EXISTING CATCHBASIN C/W<br>CATCHBASIN LEAD |
| VB ⊗             | PROPOSED VALVE AND VALVE BOX                                  | HYD - O & V&VB               | EXISTING HYDRANT & VALVE                   |
| T/FND<br>BFE     | TOP OF FOUNDATION WALL ELEVATION BASEMENT FLOOR ELEVATION     |                              | EXISTING TREES / VEGETATION                |
| USF              | UNDERSIDE OF FOOTING ELEVATION                                | EX UP                        | EXISTING UTILITY POLE                      |
| SBSE             | SUB-BASEMENT SLAB ELEVATION                                   | <del></del>                  | EXISTING FENCE                             |
| USLF<br><b>X</b> | UNDERSIDE OF LOW FOOTING ELEVATION REMOVAL AND/OR ABANDONMENT | 300mmØ WM                    | EXISTING WATERMAIN                         |
| C.S.             | CLAY SEAL SEEPAGE BARRIER                                     | HYD-\( \rightarrow - \otimes | EXISTING HYDRANT C/W VALVE & LEAD          |
|                  | THERMAL INSULATION FOR SHALLOW SEWERS                         | i e                          |  |

## **GENERAL NOTES:**

- 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 \$5,000,000.000. 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
- 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'.

ITEM STORM / CATCHBASIN MANHOLE (1200mmØ) STORM / CBMH MANHOLE FRAME AND COVER LANDSCAPE DRAIN (ELBOW, COVER & PIPE) S29 / S31

401.010 - TYPE "B" CITY OF OTTAWA CITY OF OTTAWA PVC DR 35 (HDPE for LD SYSTEM)

- 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.
- 4. 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.
- 5. PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY

PVC DR 35

- 6. 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 SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.

## **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'.

WATERMAIN TRENCHING HYDRANT INSTALLATION CITY OF OTTAWA THERMAL INSULATION IN SHALLOW TRENCHES CITY OF OTTAWA THERMAL INSULATION BY OPEN STRUCTURES CITY OF OTTAWA WATERMAIN CROSSING BELOW SEWERS CITY OF OTTAWA 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.
- 4. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED

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- 5. 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.

|                      | LOCATION        |
|----------------------|-----------------|
|                      | CITY OF OTTAWA  |
| $NOV/\Lambda T = CH$ | 15 LARCH STREET |

DRAWING NAME GENERAL PLAN OF SERVICES

120251-GP

REV#2

12025

PLAN #18698