

LEGEND

---	IRON BAR & PROPERTY LINE	●	EXISTING SANITARY MANHOLE
---	MISC LEGAL LINE (EASEMENT, PROPERTY LINES) REFER TO LEGAL PLAN FOR DETAILS	○	EXISTING STORM MANHOLE
---	PROPOSED DEPRESSED CURB	□	EXISTING CATCH BASIN
---	PROPOSED BARRIER CURB	⊕	EXISTING FIRE HYDRANT
---	EXISTING BARRIER CURB	⊕	EXISTING WATER MAIN VALVE STOP
---	EXISTING DEPRESSED CURB	---	EXISTING WATER MAIN
⊕	PROPOSED VALVE LOCATION	---	EXISTING STORM SEWER
---	PROPOSED STORM SEWER	---	EXISTING SANITARY SEWER
---	PROPOSED SANITARY SEWER	---	EXISTING OVERHEAD WIRE
---	PROPOSED WATERMAIN	---	EXISTING STREET LIGHT
→	DIRECTION OF FLOW		

- 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 \$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 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 DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
 - REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDWARE AREAS AND DIMENSIONS.
 - REFER TO SERVICING REPORT (R-2024-004) PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.
 - SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
 - PROVIDE LINE/PARKING PAINTING.
 - 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/O ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, T/W ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.
 - ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS, ONTARIO PROVINCIAL STANDARDS WILL APPLY. WHERE NO CITY STANDARDS ARE AVAILABLE.
 - CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.

SEWER NOTES:

SPECIFICATIONS:	ITEM	SPEC. No.	REFERENCE
SEWER TRENCH <td>S6 & S7 <td> <td>CITY OF OTTAWA</td> </td></td>	S6 & S7 <td> <td>CITY OF OTTAWA</td> </td>	<td>CITY OF OTTAWA</td>	CITY OF OTTAWA
STORM SEWER <td>PVC DR 35 <td> <td>CITY OF OTTAWA</td> </td></td>	PVC DR 35 <td> <td>CITY OF OTTAWA</td> </td>	<td>CITY OF OTTAWA</td>	CITY OF OTTAWA
SANITARY SEWER <td>PVC DR 35 <td> <td>CITY OF OTTAWA</td> </td></td>	PVC DR 35 <td> <td>CITY OF OTTAWA</td> </td>	<td>CITY OF OTTAWA</td>	CITY OF OTTAWA
CATCH-BASIN LEAD <td>PVC DR 35 <td> <td>CITY OF OTTAWA</td> </td></td>	PVC DR 35 <td> <td>CITY OF OTTAWA</td> </td>	<td>CITY OF OTTAWA</td>	CITY OF OTTAWA
INSULATION FOR SHALLOW SEWERS <td>S35 <td> <td>CITY OF OTTAWA</td> </td></td>	S35 <td> <td>CITY OF OTTAWA</td> </td>	<td>CITY OF OTTAWA</td>	CITY OF OTTAWA

- INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 2.0m COVER WITH 50mmx1200mm HI-40 INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION (REFER TO DETAIL).
- SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0% (2.0% IS PREFERRED).
- SEWER SERVICE CONNECTIONS PER CITY OF OTTAWA DETAILS S11 AND S11.1.
- A MINIMUM OF 150 mm OPS GRANULAR SHOULD BE PLACED FOR BEDDING FOR SEWER OR WATER PIPES WHEN PLACED ON A SOIL SUBGRADE. THE BEDDING SHOULD EXTEND TO THE SPRING LINE OF THE PIPE. COVER MATERIAL FROM THE SPRING LINE TO A MINIMUM OF 300 mm ABOVE THE OVERTOP OF THE PIPE. SHOULD CONSIST OF OPS GRANULAR A (CONCRETE OR PSM PVC PIPES) OR SAND (CONCRETE PIPE). THE BEDDING AND COVER MATERIALS SHOULD BE PLACED IN MAXIMUM 225 MM THICK LIFTS AND COMPACTED TO 98% OF THE SPMDD.
- WHERE HARD SURFACE AREAS ARE CONSIDERED ABOVE THE TRENCH BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN THE FROST ZONE (ABOUT 1.8 m BELOW FINISHED GRADE) AND ABOVE THE COVER MATERIAL SHOULD MATCH THE SOILS EXPOSED AT THE TRENCH WALLS TO MINIMIZE DIFFERENTIAL FROST HEAVING. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 225 MM THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 98% OF THE MATERIAL'S SPMDD. ALL COBBLES LARGER THAN 200 MM IN THEIR LONGEST DIRECTION SHOULD BE SEGREGATED FROM RE-USE AS TRENCH BACKFILL.
- 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.
- 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 OPS 410.07.15, 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.
- STORM MANHOLES AND CBMS ARE TO HAVE 300mm SLUMPS UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO TELEPHONE (CITY) ALL PROPOSED SEWERS, 300mm OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.

WATERMAIN NOTES:

SPECIFICATIONS:	ITEM	SPEC. No.	REFERENCE
WATERMAIN TRENCHING <td>W17 <td> <td>CITY OF OTTAWA </td></td></td>	W17 <td> <td>CITY OF OTTAWA </td></td>	<td>CITY OF OTTAWA </td>	CITY OF OTTAWA
THERMAL INSULATION IN SHALLOW TRENCHES <td>W22 <td> <td>CITY OF OTTAWA </td></td></td>	W22 <td> <td>CITY OF OTTAWA </td></td>	<td>CITY OF OTTAWA </td>	CITY OF OTTAWA
WATERMAIN CROSSING BELOW SEWER/ABOVE SEWER <td>W25 / W25.2 <td> <td>CITY OF OTTAWA </td></td></td>	W25 / W25.2 <td> <td>CITY OF OTTAWA </td></td>	<td>CITY OF OTTAWA </td>	CITY OF OTTAWA
WATERMAIN VALVE AND VALVE BOX <td>PVC DR 18 <td> <td>CITY OF OTTAWA </td></td></td>	PVC DR 18 <td> <td>CITY OF OTTAWA </td></td>	<td>CITY OF OTTAWA </td>	CITY OF OTTAWA

- SUPPLY AND CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMANS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY OFFICIALS.
- WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED. ANY WATERMANS WITH LESS THAN 2.4m COVER TO BE INSULATED PER THE SHOWN DETAIL.
- PROVIDE MINIMUM 0.25m ABOVE 0.5m IF BELOW. CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS PER CITY OF OTTAWA STANDARDS W25/W25.2
- WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.
- CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS CITY OF OTTAWA STANDARD DETAILS W-39, 40, 41, 42, 43 AND 44.
- PROVIDE THERMAL INSULATION FOR WATERMAIN AT OPEN STRUCTURES PER CITY OF OTTAWA STANDARD DETAIL W-23.
- IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

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.

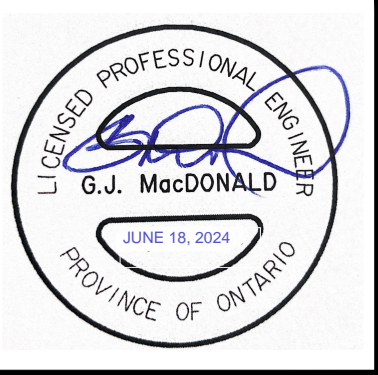
NOT FOR CONSTRUCTION

SCALE

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LOCATION
CITY OF OTTAWA
200 ELGIN STREET

DRAWING NAME
GENERAL PLAN OF SERVICING

PROJECT No.	123101
REV	REV # 3
DRAWING No.	123101-GP

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