

LENAME: U:\Infrastructure\2024\CCO-24-0142 Theberge - 3030 St Joseph Blvd\12 - Drawings\CCO-24-0142_PRESENTAT <u>4ST SAVED</u>: Thursday, September 05, 2024 <u>LAST SAVED BY</u>: r.robineau <u>4ST PLOTTED</u>: Thursday, September 05, 2024 <u>CTB FILE USED</u>: MP-CV-STANDARD.ctb

| REVIEWED BY DEVELOPMENT REVIEW SERVICES BRANCH | | | | | | |
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| Signed | th | e / | 1 | | | |
| Date | Mar 1 | 1 2025 | | , | | |
| Plan Number | | # | | | | |

| | SAN STRUCTURE TABLE | | | | | | |
|------|---------------------|-----------|------------|---|--|--|--|
| NAME | RIM ELEV. | INVERT IN | INVERT OUT | DESCRIPTION | | | |
| MH2A | 75.79 | SE73.520 | N72.940 | STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25 | | | |
| MH2B | 75.23 | S72.777 | N69.578 | STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25 C/W EXTERNAL DROP STRUCTURE PER OPSD 1003.010 | | | |
| MH2C | 71.16 | S68.620 | NW67.788 | STRUC. OPSD 701.011 COVER. CITY 524 FRAME. CITY 525 C/W EXTERNAL DROP STRUCTURE PER OPSD 1003.010 | | | |
| MH2D | 70.11 | SE67.200 | SW66.440 | STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25 C/W EXTERNAL DROP STRUCTURE PER OPSD 1003.010 | | | |
| MH2E | 69.45 | NE65.500 | NW65.080 | STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25 | | | |

MUNICIPAL SEWER/WATERMAIN RELOCATION NOTES:

1. CONSTRUCT ALL SEWERS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.

 SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
 BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 98% STANDARD PROCTOR DRY DENSITY (SPMDD). CLEAR STONE BEDDING SHALL NOT BE PERMITTED. BEDDING THICKNESS

TO BE INCREASED TO 300mmm IF PLACED ON BEDROCK.
2.2. SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.
2.3. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR GRANULAR "B" TYPE 1.
2.4. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 1.8 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 225mm THICK LOOSE LIFTS AND COMPACTED TO 98% OF THE MATERIAL'S SPMDD.

 THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION PHASING AND LAYOUT. A PHASING PLAN SHALL BE ESTABLISHED FOR THE REALIGNMENT OF THE PROPOSED WATER AND SANITARY SERVICES TO ENSURE CONTINUAL SERVICE FOR THE OFF-SITE FLOWS.
 SEWERS AND CONNECTIONS 200mmØ-375mmØ TO BE PVC SDR-35. SEWER CONNECTIONS 450mmØ AND

LARGER TO BE CONCRETE. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE. CONCRETE SEWER CLASS IN ACCORDANCE WITH OPSD 807.010 & 807.030, AS APPLICABLE.
5. CONTRACTOR TO CCTV SANITARY SEWER UPSTREAM AND DOWNSTREAM OF PROPOSED TIE IN LOCATIONS PRIOR TO AND AFTER PROPOSED WORKS.

6. PROPOSED SANITARY MAINTENANCE STRUCTURES TO BE BENCHED PER OPSD 701.021.

7. SEWERS AND WATERMAINS LOCATED PARALLEL TO EACH OTHER SHOULD BE CONSTRUCTED IN SEPARATE TRENCHES. WHEN IT IS IMPOSSIBLE OR NOT PRACTICAL TO MAINTAIN VERTICAL AND/OR HORIZONTAL SEPARATION PER MECP STANDARDS, ALL SEWERS SHOULD BE CONSTRUCTED OF WATERMAIN QUALITY PIPE, PRESSURE TESTED IN PLACE AT A PRESSURE OF 350 kPa (50 psi) WITHOUT LEAKAGE USING THE TESTING METHODOLOGY IN ONTARIO PROVINCIAL STANDARD SPECIFICATION 701 (OPSS 701) OF THE OPS.

8. WHERE SANITARY SEWERS ARE 0.6M BELOW GROUNDWATER TABLE, SANITARY MAINTENANCE HOLES SHALL BI EXTERNALLY WRAPPED WITH WATERPROOF MEMBRANE PLACED EXTERNALLY AROUND ALL PRECAST JOINTS, INCLUDING JOINTS BELOW THE MAINTENANCE HOLE FRAME AND COVER, WITH A MINIMUM 300MM WIDE STRIP.

9. THE LOCATION OF EXISTING UTILITIES ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
 10. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO

ONE, BELL, ROGERS AND THE CITY. 11. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND

SPECIFICATIONS, AS WELL AS CITY STANDARDS.
12. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. INSULATE ALL WATERMAINS AND SERVICES THAT HAVE LESS THAN 2.4m COVER WITH THERMAL INSULATION AS PER CITY DETAIL W22.

13. IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.

14. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY DETAIL W23.

15. VALVES TO BE OPERATED BY CITY STAFF ONLY.

16. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY. CITY TO BE PRESENT FOR WATERMAIN CONNECTION. CONNECTION, EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.

17. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTION(S) REQUIRED. THIS SHALL BE COMPLETED IN THE PRESENCE OF A DESIGNATED MUNICIPAL WATER OPERATOR AND THE SELECTED CONTRACTOR SHALL PROVE TO THE SATISFACTION OF THE CITY THAT THEY ARE COMPETENT TO PERFORM THE WORKS PRIOR TO INITIATING CONSTRUCTION.

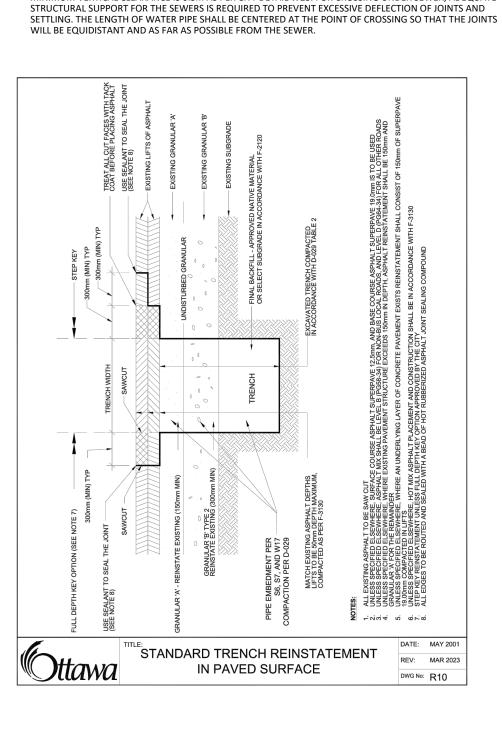
0.25m FOR CROSSING OVER THE SEWER. AS PER CITY DETAIL W25.2 FOR CROSSING UNDER SEWER. THE

MINIMUM VERTICAL CLEARANCE IS 0.5m AS PER CITY DETAIL W25. FOR CROSSING UNDER SEWER, ADEQUATE

18. CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020.

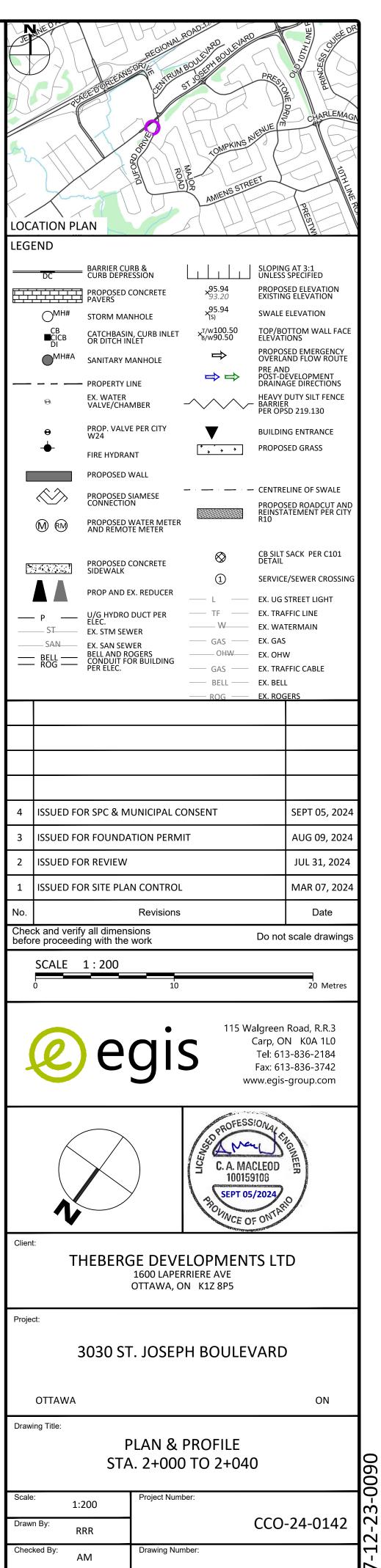
ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
 ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE.

ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE.
 AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER/UTILITY IS



Designed By:

RRR



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