

GENERAL NOTES:

- 1. All dimensions are in metres; all elevations are in metres and are geodetic. TM = top of spindle of existing fire hydrant on Tralesedge Way, Elevation = 85.68. Geodetic datum reference: CGD=1928:1978.
2. This is not a legal survey. Boundary and topographic information were derived from FARLEY, SMITH & DENIS SURVEYING LTD file No. 25-1-17.
3. Contractor is responsible for location and protection of utilities.
4. All dimensions to be verified on site by contractor prior to construction.
5. Any changes made to this plan must be verified and approved by Kollaard Associates Inc.
6. Client is responsible for acquiring all necessary permits. This drawing is not for construction until a building permit has been granted.
7. The proposed grades have been set and verified for site grading control only. The grade rises at the building location should be verified with regard to subsurface conditions by qualified geotechnical personnel after completion of the excavation.
8. The underside of footing elevation has been set based on the information available and may not have accounted for actual ground water conditions at the exact house location and should be verified by qualified geotechnical personnel upon completion of the excavation.
9. A geotechnical engineer should be retained to provide recommendations with respect to the sub-grade conditions prior to footing installation.
10. The owner agrees to prepare and implement an erosion and sediment control plan to the satisfaction of the City of Ottawa, appropriate to the site conditions, prior to undertaking any site alterations (filling, grading, removal of vegetation, etc.) and during all phases of site preparation and construction in accordance with the current Best Management Practices for Erosion and Sediment Control such as, and not limited to installing filter cloths across manhole/catchbasin lids to prevent sediments from entering structures and install and maintain a light duty silt fence barrier as required.
11. All materials and construction to be in accordance with City of Ottawa standards and Ontario Provincial Standards and Specifications: sewer and watermain material types; disinfection, provide minimum 2.4 metres of cover for water services, cathodic protection. City of Ottawa insulation specifications for watermain, pipe bedding, reinstatement of disturbed areas and leakage testing.
12. Reference to Kollaard File No. 190867 for Servicing and Stormwater Management Design and Geotechnical Reports.

Revision table with columns: No., REVISION, DATE, BY. Includes entries for SPC re-submission, review comments, and SPC application.

Kollaard Associates Engineers logo and contact information: (613) 860-0923, info@kollaard.ca, P.O. Box 189, 210 Prescott St., Kemptville, Ontario.

CLIENT: TEAK DEVELOPMENTS, 31 WOODVIEW CRESCENT, OTTAWA, ON K1B 3B1

PROJECT: PROPOSED RESIDENTIAL DEVELOPMENT

LOCATION: 6173 RENAUD ROAD, CITY OF OTTAWA, ON K1W 0K9

DESIGNED BY: SD, CHECKED BY: SD, DRAWN BY: ML, APPROVED BY: SD, DATE: NOV. 11, 2019, KOLLAARD FILE NUMBER: 190867

Professional Engineer seal for S.E. deWit, License No. 100079612, Province of Ontario.

DRAWING NUMBER: 190867-SER

DRAWING NAME:

#18196

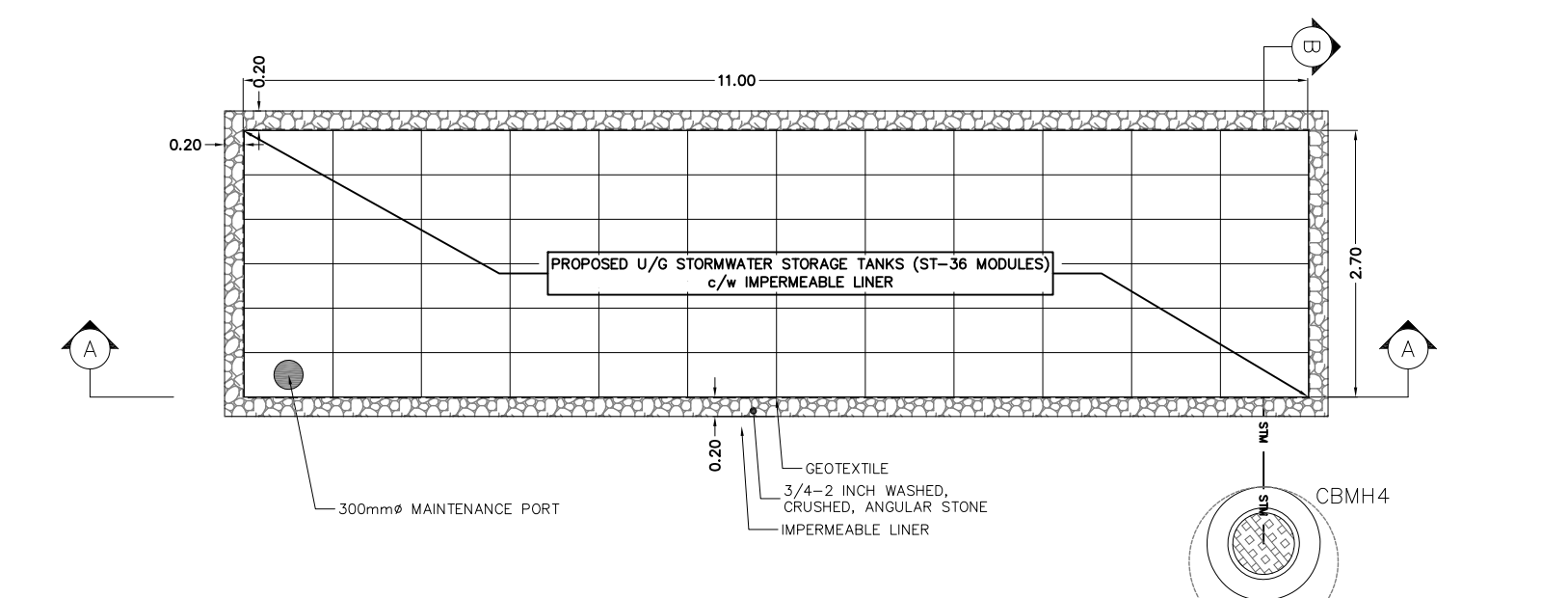
LEGEND: Symbols for existing and proposed elevations, drainage slopes, storm sewers, water mains, and various utility poles and structures.

SEWER NOTES:

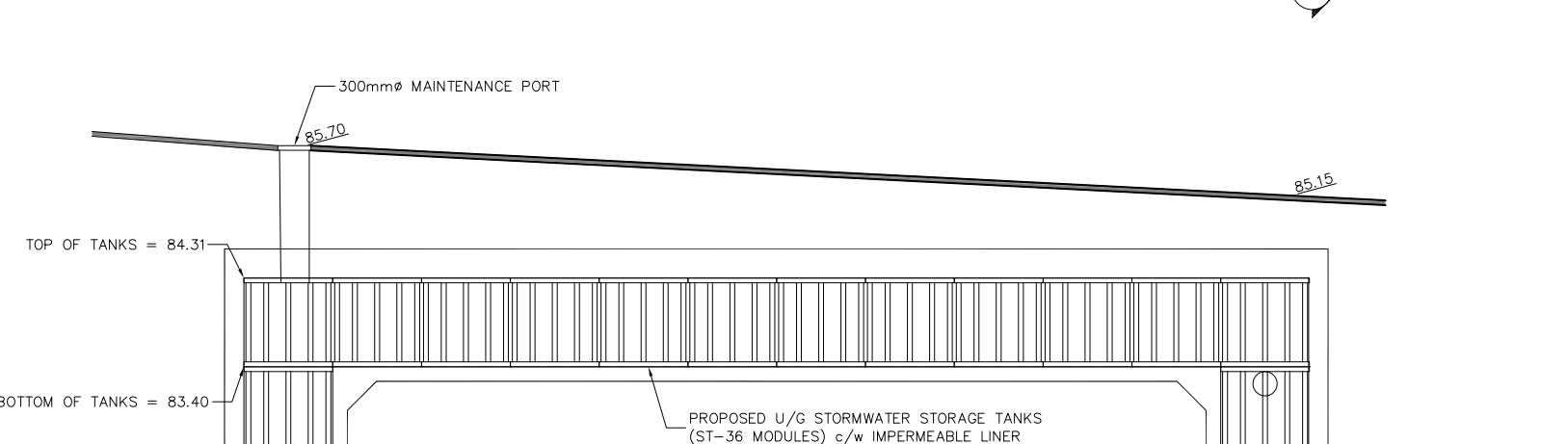
- 1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS AND ONTARIO PROVINCIAL STANDARDS FOR ROADS AND PUBLIC WORKS.
2. SPECIFICATIONS: ITEM, SPEC. No., QTY, STD. DWG. No. (Catch basin, storm manhole, sanitary manhole, etc.)
3. INSULATE ALL SEWER PIPES THAT HAVE LESS THAN 2m COVER WITH THERMAL INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
4. PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
5. FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTION PIPES TO MANHOLES (FOR EXAMPLE KOR-H-SEAL, PSE, POSITIVE SEAL AND DURASEAL). SANITARY RUBBER GASKET TYPE JOINTS SHALL CONFORM TO CSA (B-182.2,3,4).

WATERMAIN NOTES:

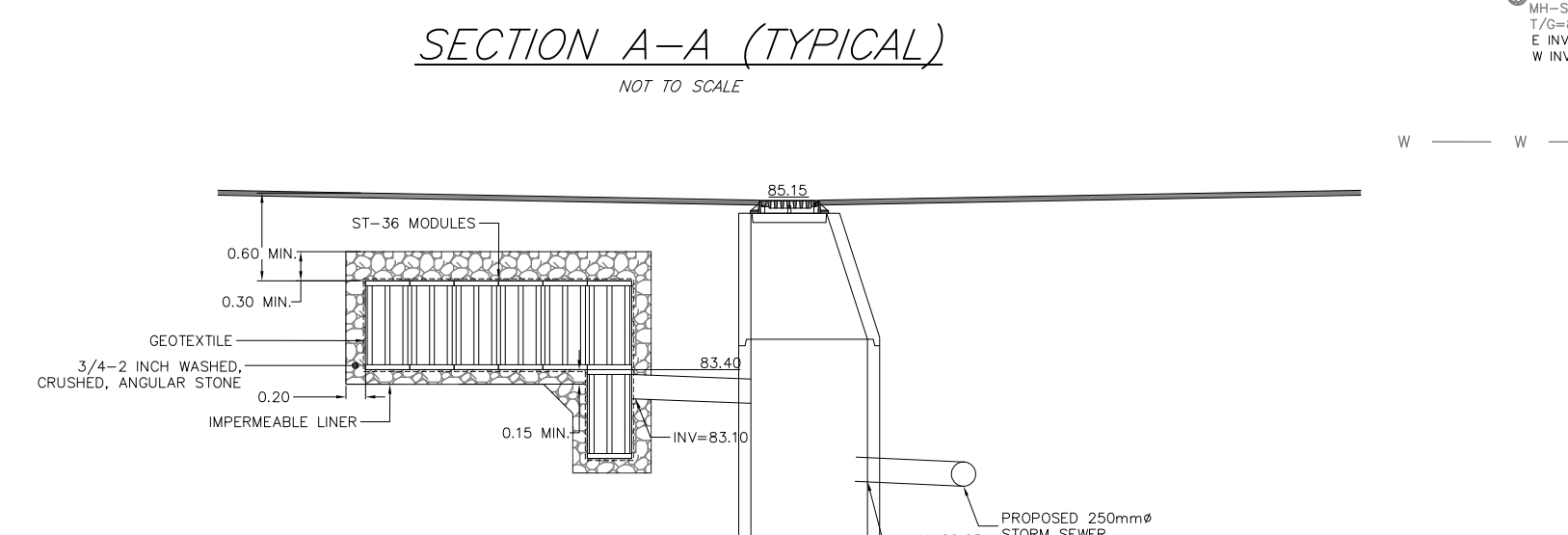
- 1. CITY TO SUPPLY, INSTALL & DISINFECT THE WATER SERVICE; CONTRACTOR TO EXCAVATE, BACKFILL AND REINSTATE THE ROADWAY AS PER STD DWG R10.
2. SPECIFICATIONS: ITEM, SPEC. No., QTY, STD. DWG. No. (Watermain bedding, cathodic protection, pressure testing, etc.)
3. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED. WHERE LESS THAN 2.4m COVER, THERMAL INSULATION IS TO BE PROVIDED AS PER CITY STD DWG W22.
4. A MINIMUM OF 0.5m VERTICAL CLEARANCE IS REQUIRED BETWEEN THE WATERMANS AND ALL UTILITIES AND SEWERS.
5. METALLIC WARNING TAPE SHALL BE USED OVER ALL WATERMANS.
6. INSTALL AND TEST TRACER WIRE FOR ALL PROPOSED WATERMAIN IN ACCORDANCE WITH THE CITY OF OTTAWA DESIGN STANDARDS AS SPECIFIED IN SECTION 8.28.
7. EXISTING WATERMAIN INFORMATION SHOWN IS BASED ON BEST CURRENT INFORMATION. CONTRACTOR TO VERIFY EXACT LOCATION OF WATERMAIN AND REPORT ANY DISCREPANCIES TO KOLLAARD ASSOCIATES INC.
8. WATER SHUTOFF VALVE AND VALVE BOX TO BE WITHIN THE ROAD ALLOWANCE AND LOCATED A MINIMUM OF 1.0 METRES FROM THE BUILDING FOUNDATION.
9. CONNECTIONS AT ELBOWS AND TEES IN WATER MAINS SHOULD BE MADE WITH THE USE OF JOINT RESTRAINERS DESIGNED FOR WATERMAIN APPLICATION.
10. ALL CONNECTORS, RODS AND VALVE BOLTS SHALL BE STAINLESS STEEL.
11. VALVES ARE TO BE OPERATED BY CITY OF OTTAWA STAFF ONLY.
12. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY OF OTTAWA AND CITY OF OTTAWA FORCES ARE ON HAND TO MAKE THE CONNECTION.



STORMWATER STORAGE TANKS PLAN VIEW (TYPICAL) NOT TO SCALE



SECTION A-A (TYPICAL) NOT TO SCALE



SECTION B-B (TYPICAL) NOT TO SCALE

INLET CONTROL DEVICE TABLE with columns for Structure, Model, Pipe Outlet, Discharge, Upstream Head, HWL Above ICD, ICD Invert Elevation, Structure Size, and Minimum Clearance.

WATER CROSSING TABLE with columns for Structure, Model, Pipe Outlet, Discharge, Upstream Head, HWL Above ICD, ICD Invert Elevation, Structure Size, and Minimum Clearance.



SITE SERVICING PLAN SCALE = 1:250