

*G. Wildman*

**GERALDINE WILDMAN**  
**ACTING MANAGER, DEVELOPMENT REVIEW EAST**  
**PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT**  
**DEPARTMENT, CITY OF OTTAWA**

**APPROVED**  
 By Geraldine Wildman at 6:13 pm, Oct 28, 2022

**LEGEND**

EXISTING ELEVATIONS	---
PROPOSED/EXISTING ELEVATIONS	---
PROPOSED CURB ELEVATION	---
PROPOSED WALL ELEVATION	---
EXISTING LIGHT STANDARD	---
PROPOSED DROPPED CURB	---
EXISTING BOLLARD	---
EXISTING HYDRO POLE	---
EXISTING HYDRO GUY WIRE ANCHOR	---
EXISTING FIRE HYDRANT	---
EXISTING/PROP SANITARY MANHOLE	---
EXISTING/PROP STORM MANHOLE	---
EXISTING/PROP VALVE CHAMBER	---
EXISTING CATCH BASIN	---
EXISTING GAS VALVE	---
EXISTING/PROP WATER VALVE	---
PROPOSED CATCH BASIN	---
WATER SERVICES	---
SANITARY SEWER	---
STORM SEWER	---
OVERHEAD POWER LINES	---
TEMPORARY BENCHMARK	---
SILT FENCE	---
SLOPE (MAX 1V:3H)	---
OVERLAND FLOW ROUTE	---
DEPRESSED CURB	---

**SEWER NOTES:**

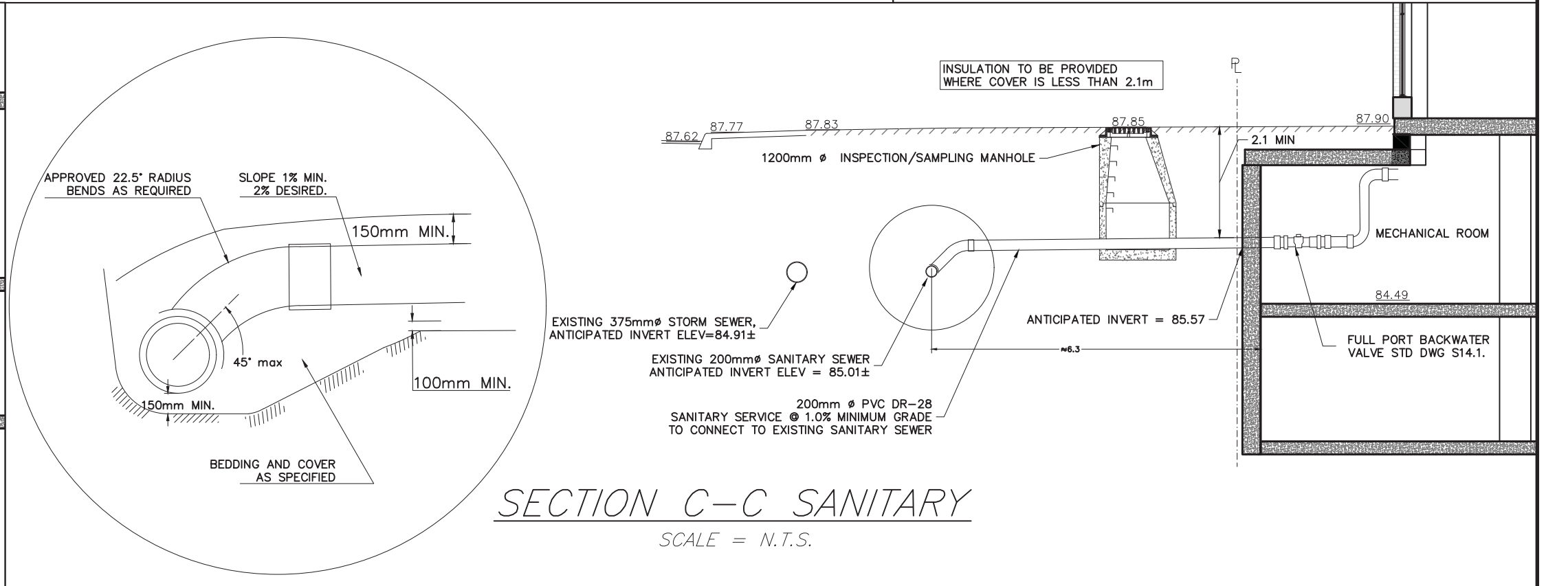
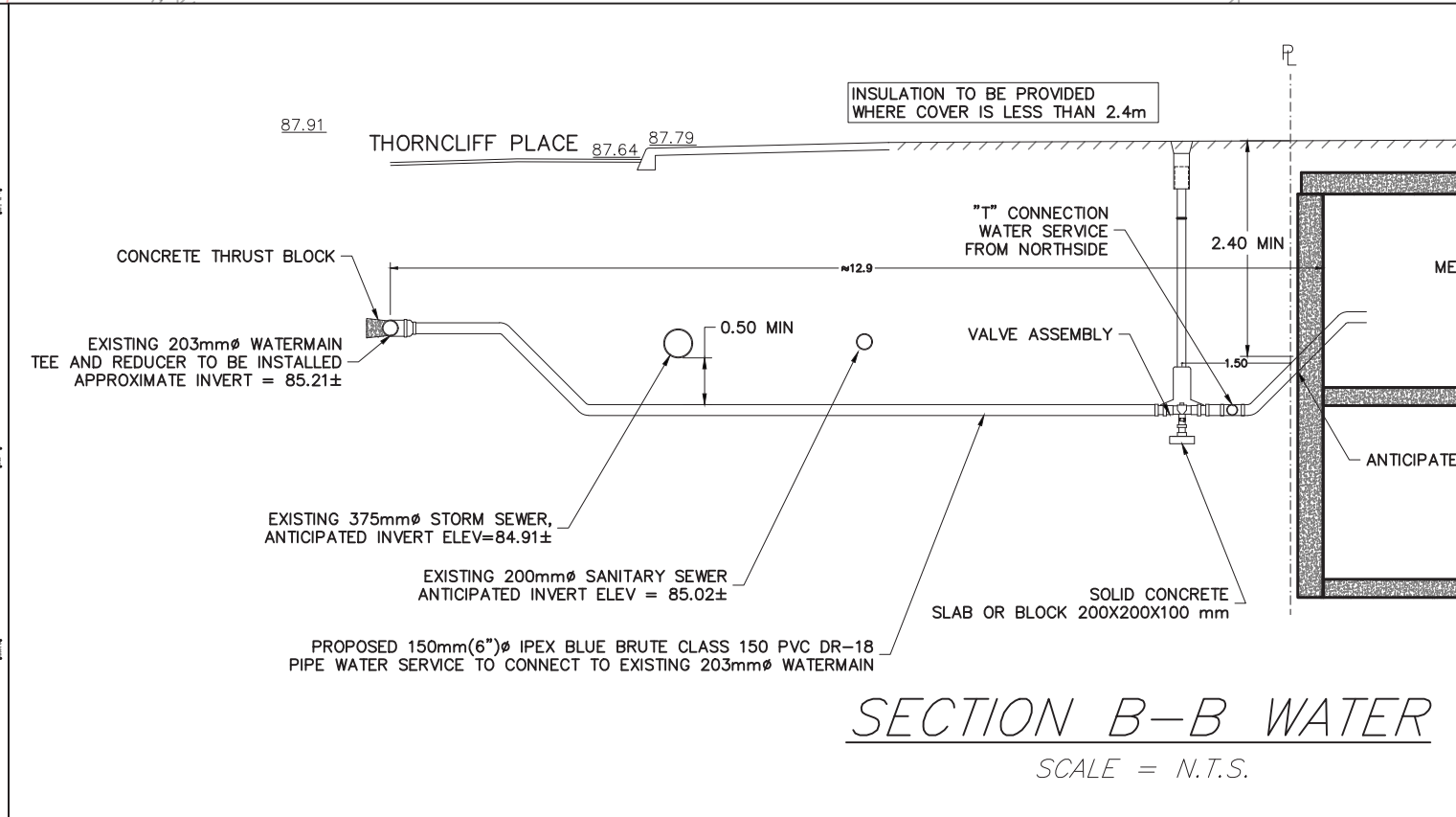
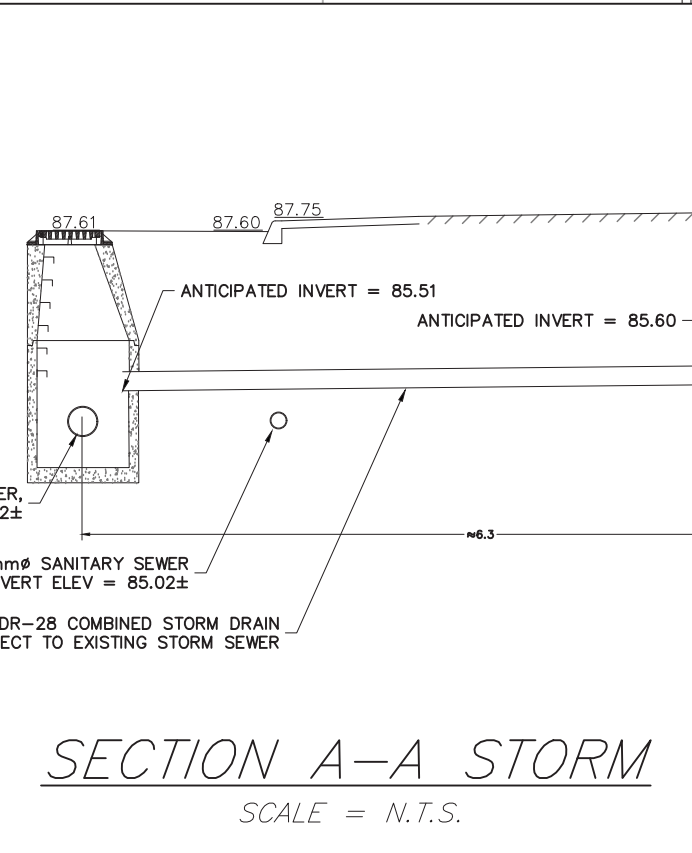
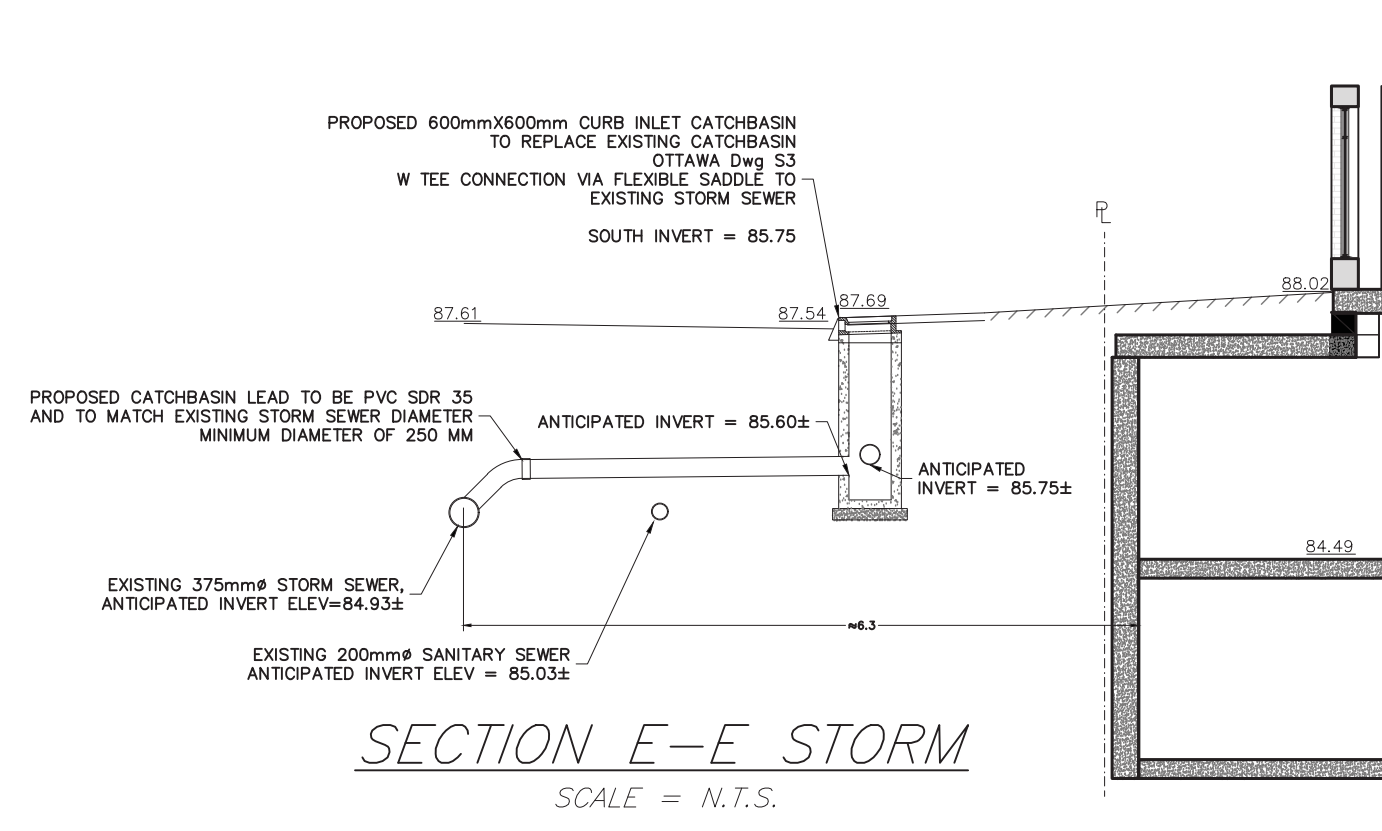
- SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS AND ONTARIO PROVINCIAL STANDARDS FOR ROADS AND PUBLIC WORKS.
- SPECIFICATIONS:
 

ITEM	SEC. No.	CITY STD. DWG. No.
CATCH BASIN (600mm x 600mm)	OPSD 705.010	S2
STORM/SANITARY MANHOLE (1200mm)	OPSD 701.010	
SEWER SERVICE CONNECTION	OPSD 701.021	S11 & S11.1
SANITARY BENCHING	OPSD 704.010	S24.1 & S25
CATCH BASIN & MANHOLE ADJUSTMENTS	OPSD 401.010	S19, S22 & S23
STORM MANHOLE FRAME & COVER	OPSD 400.020	S6 & S7
SEWER TRENCH	OPSD 401.030	S24 & S25
SANITARY MANHOLE FRAME & COVER	OPSD 401.030	S24 & S25
- SEWER TRENCH: SITE SERVICES EXCAVATION, BEDDING & BACKFILL AS PER THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION PREPARE BY KOLLAARD ASSOCIATES INC.
- INSULATE ALL STORM PIPES THAT HAVE LESS THAN 2.0m COVER AND ALL SANITARY PIPES THAT HAVE LESS THAN 2.1m COVER WITH THERMAL INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
- PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
- FLEXIBLE CONNECTORS ARE REQUIRED FOR CONNECTION PIPES TO MANHOLES (FOR EXAMPLE KOR-S-SEAL, FSKO POSITIVE SEAL, AND DUKALASK). SANITARY RUBBER GASKET TYPE JOINTS SHALL CONFORM TO CSA (B-182.2.3.4).
- THE OWNER SHALL REQUIRE THAT THE SITE SERVING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSD 410.07.16, 410.07.16.04 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SEWERS TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A QUALIFIED INSPECTOR WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
- STORM MANHOLES AND CBMS ARE TO HAVE 300mm SLUMPS (AS PER SLUMP DETAIL ON OPSD 701.010), UNLESS OTHERWISE INDICATED.
- BUILDING CONTRACTOR TO PROVIDE TEMPORARY GRANULAR BACKFILL ABOVE SHALLOW CONDUITS AND STORM SEWERS TO SUPPORT HEAVY CONSTRUCTION EQUIPMENT.
- CONTRACTOR TO RELEASE (CCTV) 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 TO MUNICIPAL SATISFACTION.
- WHERE THE SANITARY SEWER CROSSES ABOVE THE WATERMAIN, THE CONTRACTOR IS TO PROVIDE A MINIMUM OF 0.5m VERTICAL SEPARATION. ADEQUATE STRUCTURAL SUPPORT OF THE SEWER TO PREVENT SETTLING AND EXCESSIVE JOINT DEFLECTION AND ENSURE THAT THE LENGTH OF THE WATER PIPE BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.
- MANHOLE IS REQUIRED IF SEWER MAIN IS RIGID MATERIAL.

**WATERMAIN NOTES:**

- CITY TO SUPPLY, INSTALL & DISINFECT THE WATER SERVICE. CONTRACTOR TO EXCAVATE, BACKFILL AND REINSTATE THE ROADWAY AS PER STD DWG R10.
- SPECIFICATIONS:
 

ITEM	SEC. No.	City Std. Dwg. No.	REFERENCE
WATERMAIN BEDDING AND BACKFILL	802.010/802.031	W17 (trench detail)	OPSD
CATHODIC PROTECTION	1109.010	W40	OPSD
PRESSURE TESTING	C-605-5		AWWA
CHLORINATION	C-651-05		AWWA
WATERMAIN MATERIAL	PVC DR18	(CLASS 150)	
- 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 (in shallow trenches), W23 (At open structures).
- A MINIMUM OF 0.5m VERTICAL CLEARANCE IS REQUIRED BETWEEN THE WATERMANS AND ALL UTILITIES AND SEWERS. IN LOCATIONS WHERE THIS IS NOT ACHIEVABLE, MUST FOLLOW PROCEDURE F-6-1 SEC. 5.2 OF THE ONTARIO DRINKING WATER RESOURCES ACT.
- METALLIC WARNING TAPE SHALL BE USED OVER ALL WATERMANS.
- INSTALL AND TEST TRACER WIRE FOR ALL PROPOSED WATERMAIN IN ACCORDANCE WITH THE CITY OF OTTAWA DESIGN STANDARDS AS SPECIFIED IN SECTION 8.28.
- EXISTING WATERMAIN INFORMATION SHOWN ON THORNCLIFF PLACE IS BASED ON BEST CURRENT INFORMATION. CONTRACTOR TO VERIFY EXACT LOCATION OF WATERMAIN AND REPORT ANY DISCREPANCIES TO KOLLAARD ASSOCIATES INC.
- CONNECTIONS AT ELBOWS AND TEES IN WATER MAINS SHOULD BE MADE WITH THE USE OF JOINT RESTRAINERS DESIGNED FOR WATERMAIN APPLICATION. JOINT AND PIPE RESTRAINERS SHOULD MEET THE REQUIREMENTS OF AWWA C900, C905 AND C907 AND ASTM F1974-11. JOINT RESTRAINERS SHOULD BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
- ALL CONNECTORS, RODS AND VALVE BOLTS SHALL BE STAINLESS STEEL.
- VALVES ARE TO BE OPERATED BY CITY OF OTTAWA STAFF ONLY.
- 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.



**NOTES:**

- ALL DIMENSIONS ARE IN METRES, UNLESS OTHERWISE SPECIFIED. TOPOGRAPHIC SURVEY WAS PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. D.L.S. TOPOGRAPHIC SURVEY IS GEODETIC AND REFERRED TO THE CVD28 GEODETIC DATUM. BEARINGS ARE GRID, DERIVED FROM CAN-NET 2016 REAL TIME NETWORK GPS OBSERVATIONS ARE REFERENCED TO SPECIFIED CONTROL POINTS 01919680005 AND 01919750705, MTM ZONE 9 (76°30' WEST LONGITUDE) NAD-83 (ORIGINAL).
- THIS IS NOT A LEGAL SURVEY.
- BOUNDARY INFORMATION DERIVED FROM ANNIS, O'SULLIVAN, VOLLEBEKK LTD.
- EXISTING SERVICES INFORMATION SHOWN ARE BASED ON BEST DISCREPANCIES TO CONTRACTOR TO VERIFY EXACT LOCATION AND REPORT ANY DISCREPANCIES TO KOLLAARD ASSOCIATES INC.
- CLIENT IS RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS.
- CONTRACTOR TO VERIFY THAT APPROPRIATE PERMITS HAVE BEEN ACQUIRED PRIOR TO ANY CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR LOCATION AND PROTECTION OF UTILITIES.
- ALL DIMENSIONS TO BE VERIFIED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.
- THIS DRAWING IS NOT FOR CONSTRUCTION UNTIL ALL APPROVALS HAVE BEEN GRANTED.
- INSPECTION OF ROUGH GRADE BY KOLLAARD ASSOCIATES INC. AND CITY OF OTTAWA MUST BE CONDUCTED PRIOR TO PLACEMENT OF TOPSOIL OR SOD.
- HYDRO, GAS, COMMUNICATIONS SERVICE TO BE INSTALLED ACCORDING TO THE SPECIFICATIONS OF SERVICE PROVIDER AND THE MECHANICAL ENGINEER.
- ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS.
- ANY CHANGES MADE TO THIS PLAN MUST BE VERIFIED AND APPROVED BY KOLLAARD ASSOCIATES, INC.
- THIS DRAWING IS PART OF KOLLAARD ASSOCIATES DESIGN REPORT #211099.

NO.	REVISION	DATE	BY
5	REVISED TO INCLUDE / CLARIFY ADDITIONAL DETAILS	19.09.2022	SD
4	ISSUED FOR 3RD REVIEW COMMENTS 04 AUGUST 2022	02.09.2022	AJ
3	ISSUED FOR 2ND REVIEW COMMENTS 13 JUNE 2022	24.06.2022	AJ
2	ISSUED FOR UPDATED ARCHITECTURAL - SPC SUB #2	29.04.2022	AJ
1	ISSUED FOR 1st REVIEW COMMENTS 24 MARCH 2022	18.04.2022	AJ
0	ISSUED FOR SITE PLAN CONTROL	19.JAN.2022	AJ

**CONSULTANTS**

**Rohit COMMUNITIES**

**Kollaard Associates Engineers**

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**DESIGN** AJ

**DRAWN** AJ

**CHECKED** SD

**APPROVED** SD

**STAMP**

**LICENCED PROFESSIONAL ENGINEER**  
 SEPT 19 2022  
 S.E. deWitt  
 100079612  
 PROVINCE OF ONTARIO

CLIENT NAME	ROHIT COMMUNITIES INC.	PROJECT No.	211099
PROJECT NAME	PROPOSED RESIDENTIAL DEVELOPMENT	DATE	19.JAN.2022
PROJECT LOCATION	42 NORTHSIDE RD, OTTAWA, ONTARIO	SCALE	1:150
DRAWING	SITE SERVICING PLAN	DRAWING No.	21099 - SER