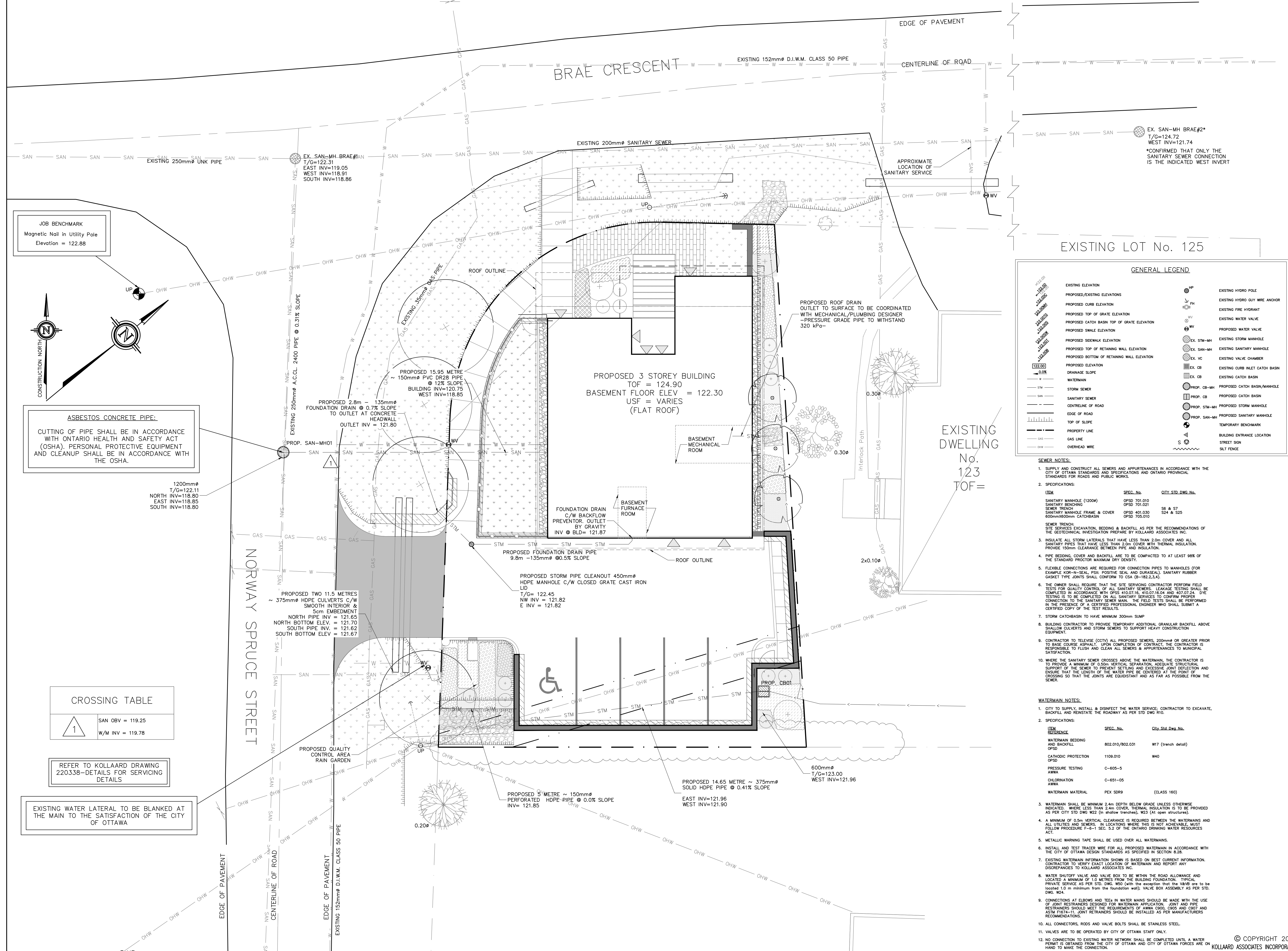


1:100 METRES

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JOB BENCHMARK
Magnetic Nail in Utility Pole
Elevation = 122.88

ASBESTOS CONCRETE PIPE:
CUTTING OF PIPE SHALL BE IN ACCORDANCE WITH ONTARIO HEALTH AND SAFETY ACT (OSHA). PERSONAL PROTECTIVE EQUIPMENT AND CLEANUP SHALL BE IN ACCORDANCE WITH THE OSHA.

1200mm#
T/G=122.11
NORTH INV=118.80
EAST INV=118.85
SOUTH INV=118.80

CROSSING TABLE

1	SAN OBV = 119.25
	W/M INV = 119.78

REFER TO KOLLAARD DRAWING 220338-DETAILS FOR SERVICING DETAILS

EXISTING WATER LATERAL TO BE BLANKED AT THE MAIN TO THE SATISFACTION OF THE CITY OF OTTAWA

EXISTING LOT No. 125

GENERAL LEGEND

EXISTING ELEVATION	EXISTING HYDRO POLE
PROPOSED/EXISTING ELEVATIONS	EXISTING HYDRO GUY WIRE ANCHOR
PROPOSED CURB ELEVATION	EXISTING FIRE HYDRANT
PROPOSED TOP OF GRATE ELEVATION	EXISTING WATER VALVE
PROPOSED CATCH BASIN TOP OF GRATE ELEVATION	PROPOSED WATER VALVE
PROPOSED SIDEWALK ELEVATION	EXISTING STORM MANHOLE
PROPOSED TOP OF RETAINING WALL ELEVATION	EXISTING SANITARY MANHOLE
PROPOSED BOTTOM OF RETAINING WALL ELEVATION	EXISTING VALVE CHAMBER
PROPOSED ELEVATION	EXISTING CURB INLET CATCH BASIN
WATERMAIN	EXISTING CATCH BASIN
STORM SEWER	PROPOSED CATCH BASIN/MANHOLE
SANITARY SEWER	PROPOSED CATCH BASIN
CENTRELINE OF ROAD	PROPOSED STORM MANHOLE
EDGE OF ROAD	PROPOSED SANITARY MANHOLE
TOP OF SLOPE	TEMPORARY BENCHMARK
PROPERTY LINE	BUILDING ENTRANCE LOCATION
GAS LINE	STREET SIGN
OVERHEAD WIRE	SILT FENCE

- 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	SPEC. No.	CITY STD. DWG. No.
SANITARY MANHOLE (1200#)	SPSD 701.010	
SANITARY BENCHING	OPSD 701.031	
SEWER TRENCH	OPSD 401.030	58 & 575
SANITARY MANHOLE FRAME & COVER	OPSD 702.010	524 & 525
600mmx600mm CATCHBASIN		
 - INSULATE ALL STORM LATERALS THAT HAVE LESS THAN 2.0m COVER AND ALL SANITARY PIPES THAT HAVE LESS THAN 2.0m COVER WITH THERMAL INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
 - PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
 - FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTION PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSR, POSITIVE SEAL AND DURASEAL). SANITARY RUBBER GASKET TYPE JOINTS SHALL CONFORM TO CSA (9-182.3.4).
 - 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 OPSD 410.014, 410.014(A) AND 407.024. 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 CATCHBASIN TO HAVE MINIMUM 300mm SLUMP.
 - BUILDING CONTRACTOR TO PROVIDE TEMPORARY ADDITIONAL GRANULAR BACKFILL ABOVE SHALLOW CULVERTS AND STORM SEWERS TO SUPPORT HEAVY CONSTRUCTION EQUIPMENT.
 - CONTRACTOR TO TELEPHONE (CCTV) ALL PROPOSED SEWERS, 200mm# 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 CLEARANCE. 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.

- 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 REFERENCE	SPEC. No.	City Std. DWG. No.
WATERMAIN BEDDING AND BACKFILL	802.010/802.031	W17 (trench detail)
OPSD		
CATHODIC PROTECTION	1109.010	W40
OPSD		
PRESSURE TESTING AWWA	C-605-5	
OPSD		
COLORIZATION AWWA	C-651-05	
OPSD		
WATERMAIN MATERIAL	PEX SDR9	(CLASS 160)
 - 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 (in open structures).
 - A MINIMUM OF 0.5m VERTICAL CLEARANCE IS REQUIRED BETWEEN THE WATERMANS AND ALL UTILITIES AND SERVICES. 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 IS BASED ON BEST CURRENT INFORMATION. CONTRACTOR TO VERIFY EXACT LOCATION OF WATERMAIN AND REPORT ANY DISCREPANCIES TO KOLLAARD ASSOCIATES INC.
 - WATER SHUTOFF VALVE AND VALVE BOX TO BE WITHIN THE ROAD ALLOWANCE AND LOCATED A MINIMUM OF 1.0 METRES FROM THE BUILDING FOUNDATION. TYPICAL PRIVATE SERVICE AS PER STD. DWG. W50 (with the exception that the valve are to be located 1.0 m minimum from the foundation walls). VALVE BOX ASSEMBLY AS PER STD. DWG. W24.
 - CONNECTIONS AT ELBOWS AND TEES IN WATER MAINS SHOULD BE MADE WITH THE USE OF JOINT RESTRAINTS DESIGNED FOR WATERMAIN APPLICATION. JOINT AND PIPE RESTRAINTS SHOULD MEET THE REQUIREMENTS OF AWWA C900, C905 AND C907 AND ASTM F1614-11. JOINT RESTRAINTS 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.

Kollaard Associates Engineers
(613) 860-0923
info@kollaard.ca

P.O. BOX 189, 210 PRESCOTT ST.
KEMPVILLE, ONTARIO
K0G 1J0 FAX (613) 258-0475
http://www.kollaard.ca

CLIENT: BRYDEN GIBSON

PROJECT: PROPOSED 3 STOREY RESIDENTIAL DEVELOPMENT

LOCATION: 121 BREA CRESCENT, STITTSVILLE, ON, K2S 1P1

DESIGNED BY: SD
CHECKED BY: SD
DRAWN BY: JR
APPROVED BY: SD
DATE: MAY 12, 2023
KOLLAARD FILE NUMBER: 220338

DRAWING NUMBER: 220338-SER
DRAWING NAME: SITE SERVICING PLAN



SCALE: AS NOTED

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No.	REVISION	DATE	BY
3	UPDATED SITE PLAN	2024/09/03	AVB
2	RESPONSE TO REVIEW COMMENTS	2024/05/22	AVB
1	RESPONSE TO REVIEW COMMENTS	2024/01/12	AVB
0	ISSUED FOR SITE PLAN CONTROL	2023/05/10	AVB
#	REVISION ITEM / DESCRIPTION	REV. DATE	INT.

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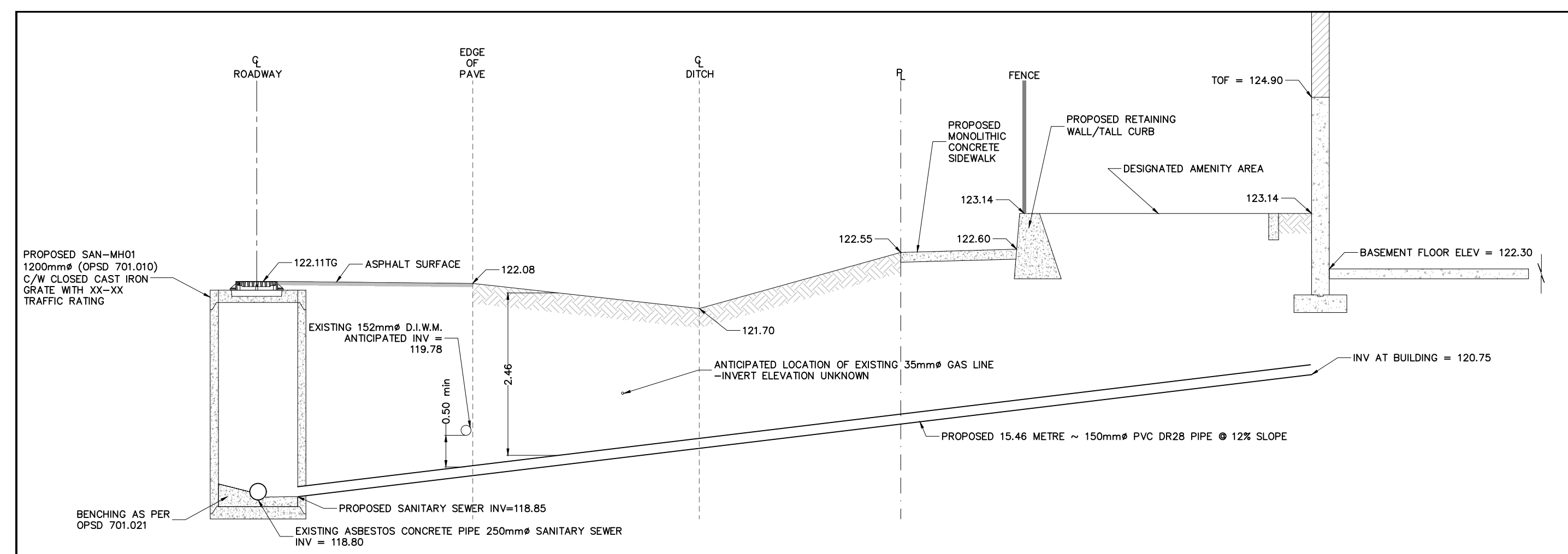
CLIENT:
 BRYDEN GIBSON

PROJECT:
 PROPOSED 3 STOREY RESIDENTIAL DEVELOPMENT

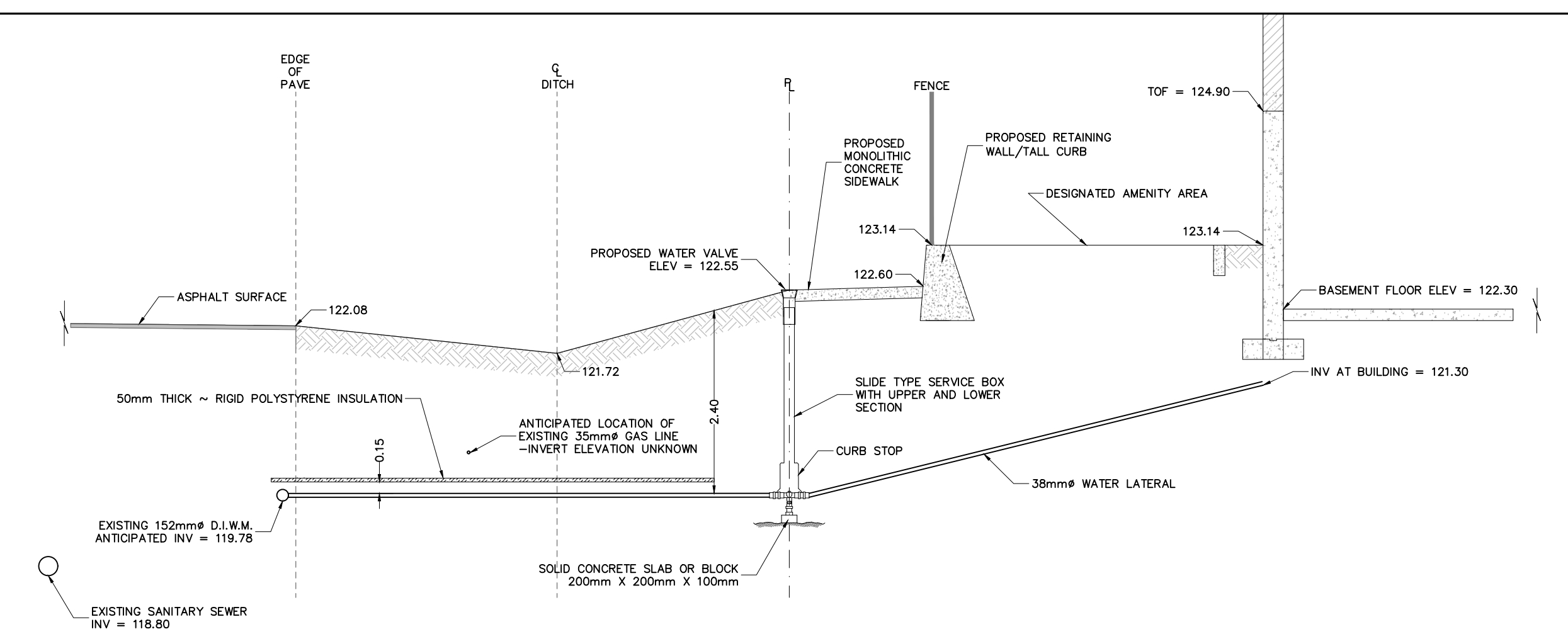
LOCATION:
 121 BREA CRESCENT, STITTSVILLE, ON, K2S 1P1

DESIGNED BY: SD
 CHECKED BY: SD
 DRAWN BY: JR
 APPROVED BY: SD
 DATE: MAY 12, 2023
 KOLLAARD FILE NUMBER: 220338

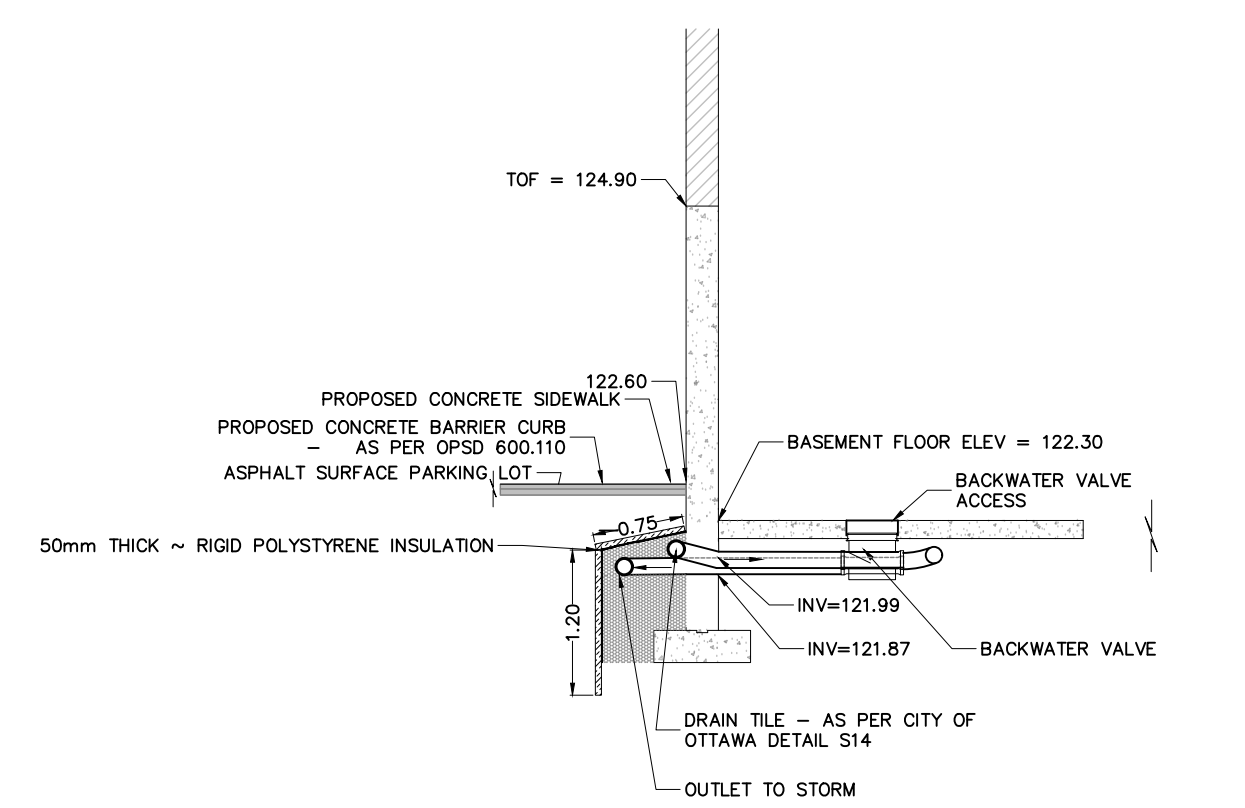
DRAWING NUMBER: 220338-DETAILS
 DRAWING NAME: DETAILS



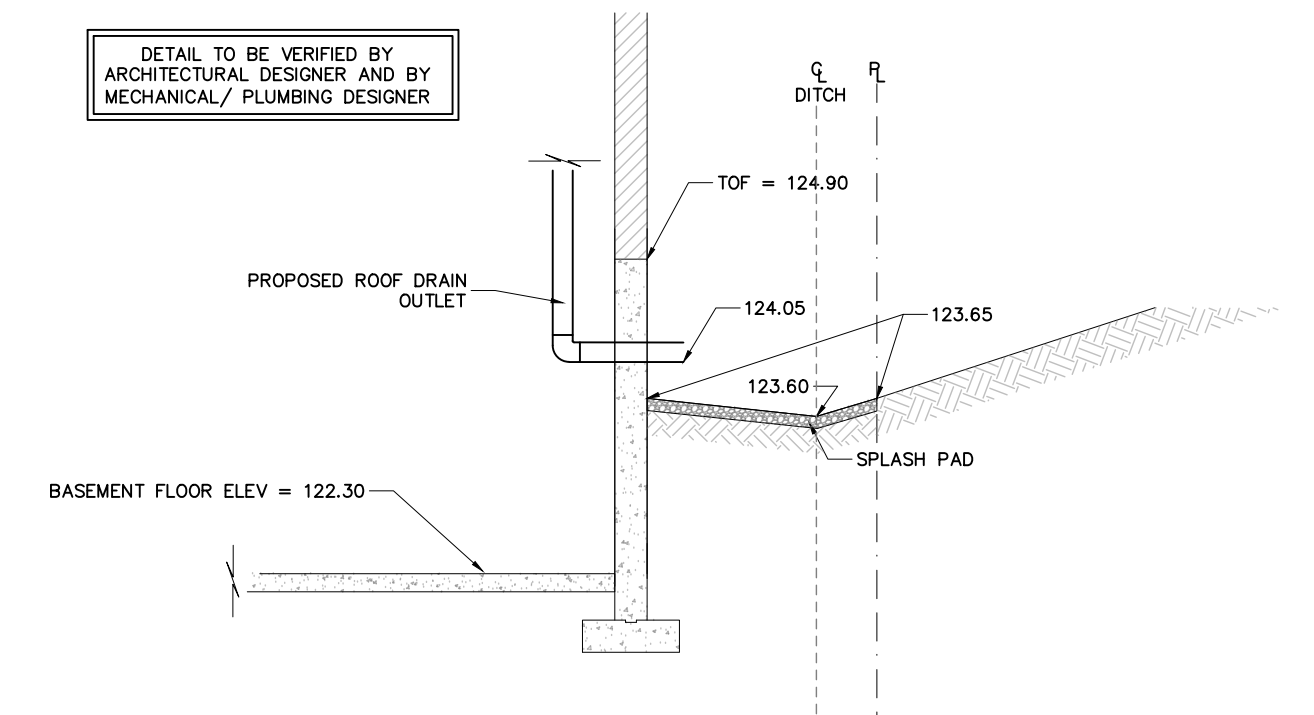
SANITARY SERVICE CONNECTION
 N.T.S.



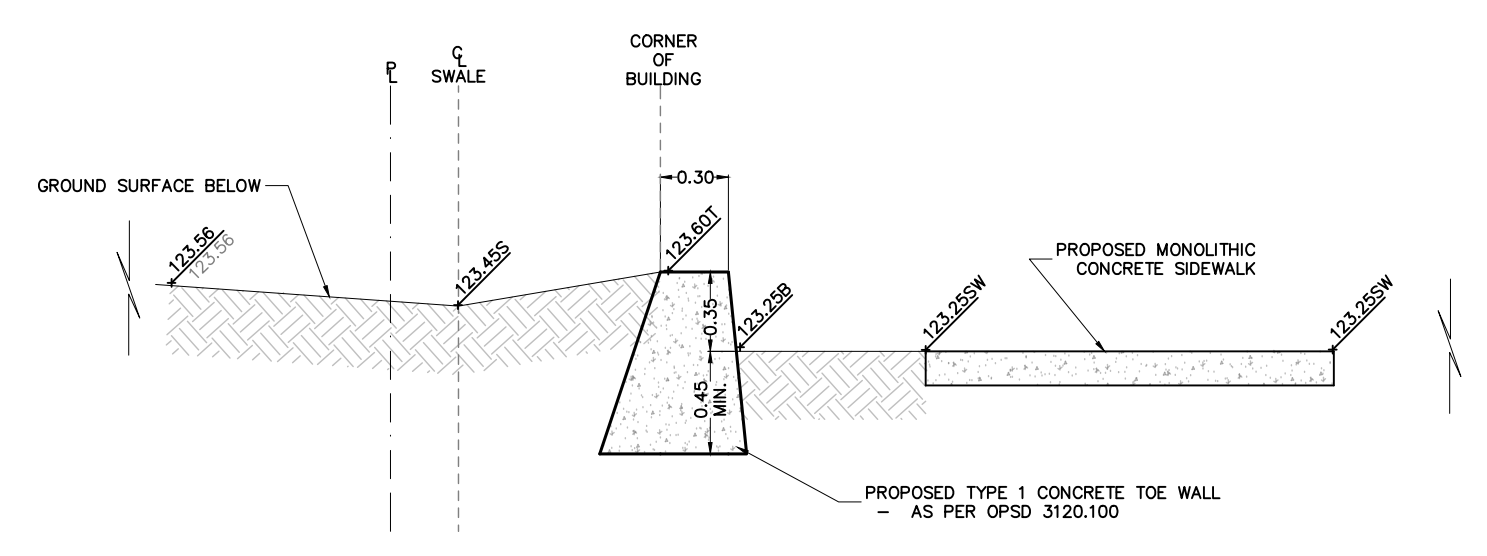
WATER SERVICE CONNECTION
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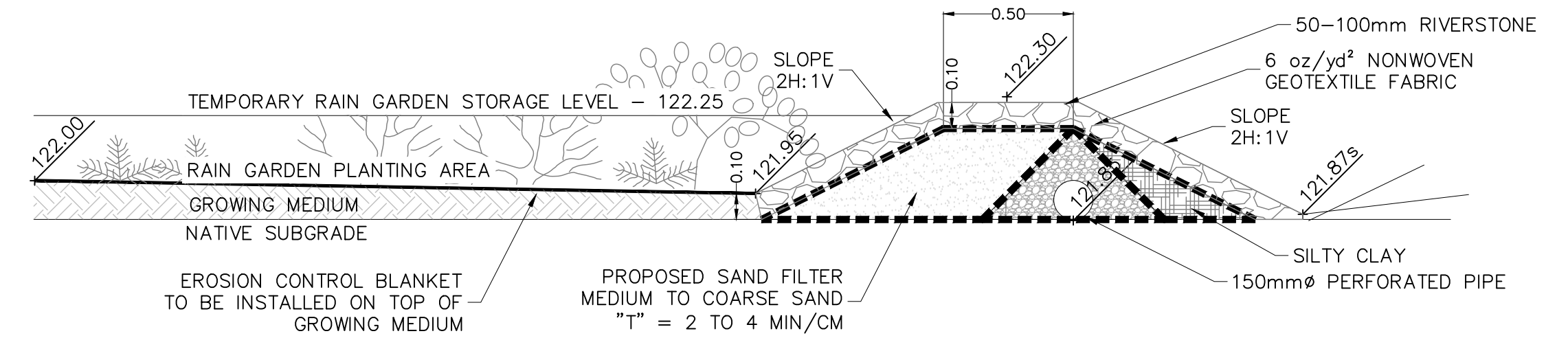
FOUNDATION DRAIN SECTION F-F
 N.T.S.



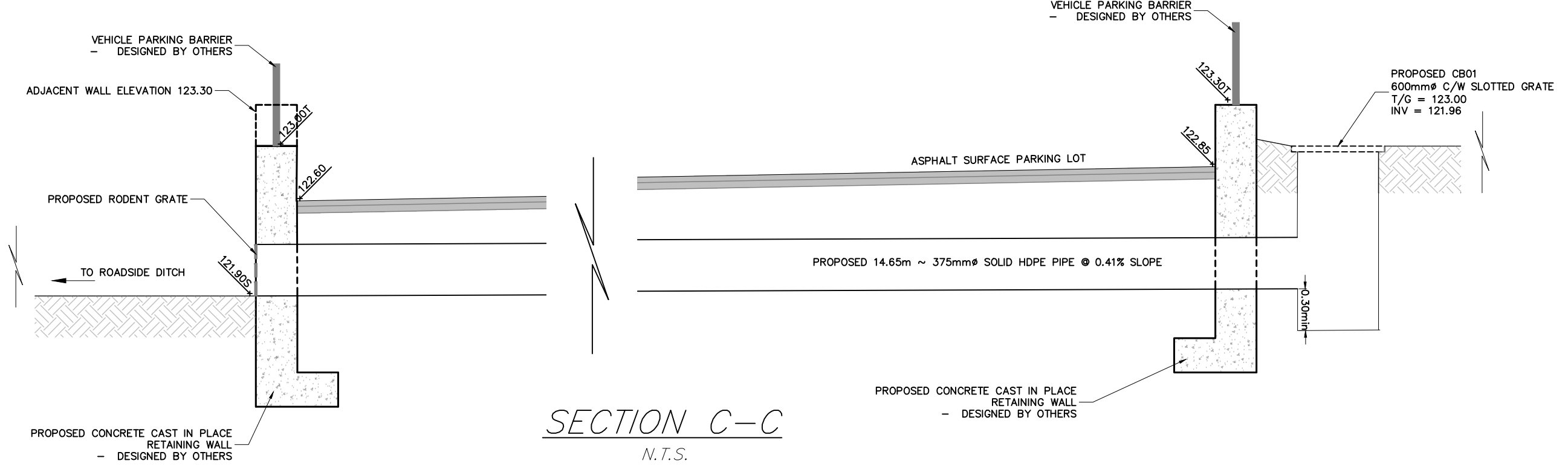
ROOF DRAIN OUTLET
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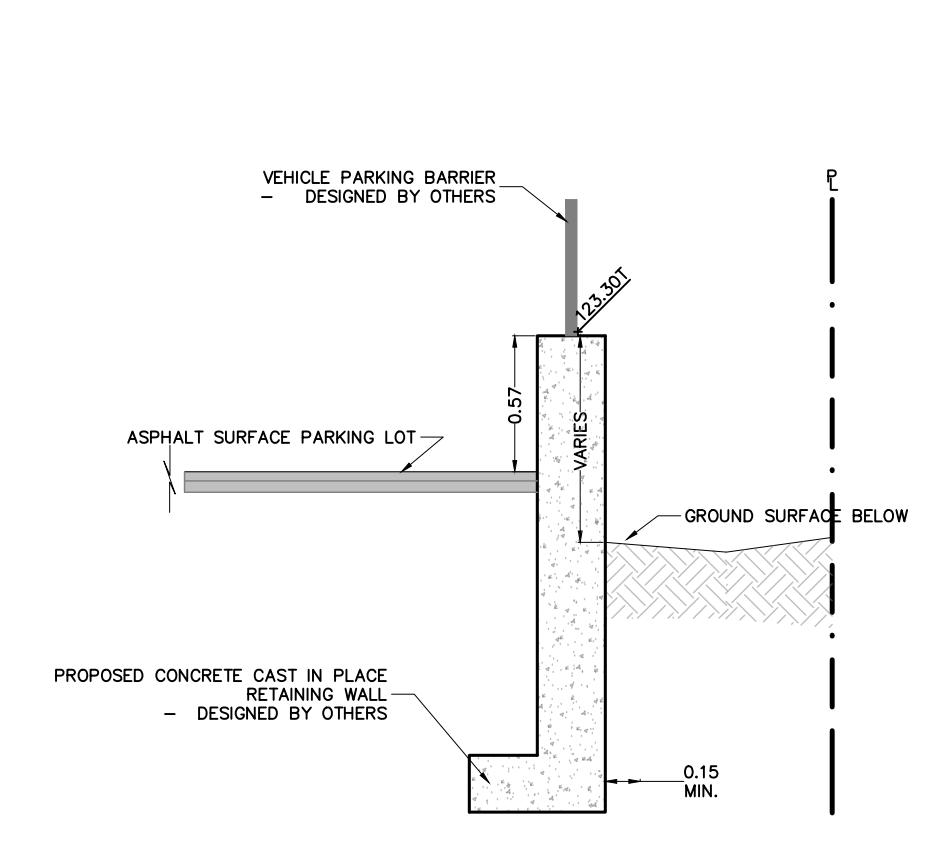
SECTION D-D
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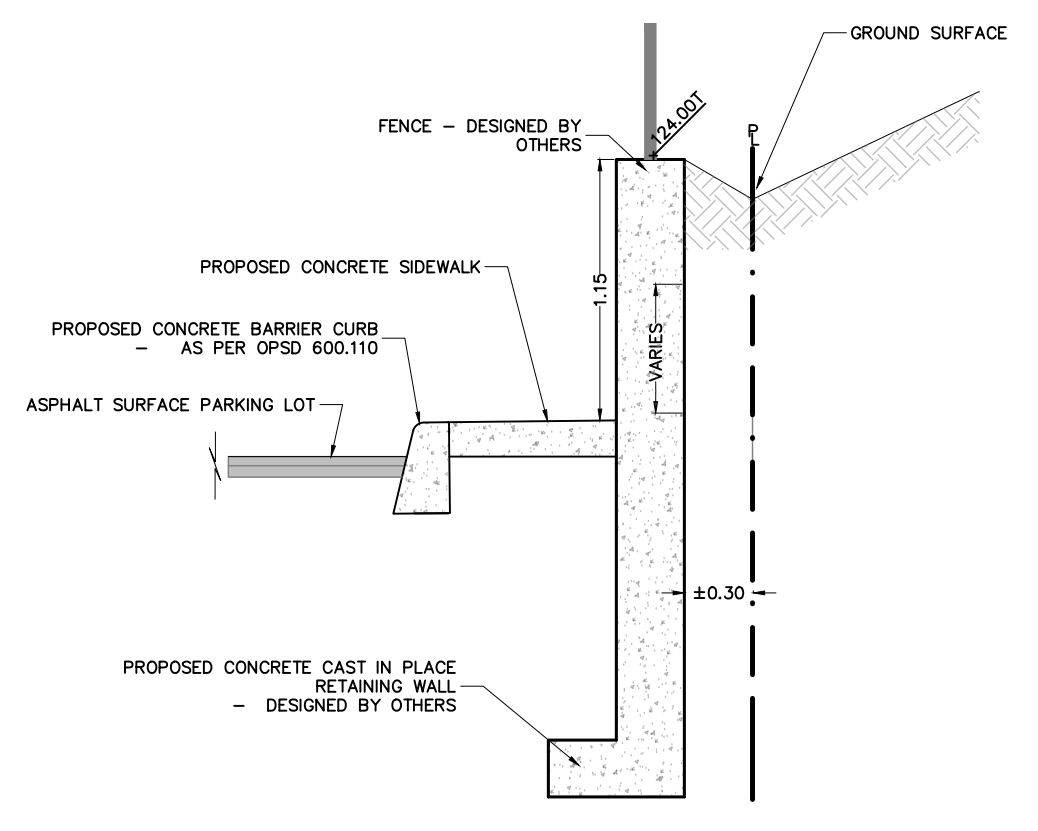
PROPOSED RAIN GARDEN AREA SECTION E-E
 N.T.S.



SECTION C-C
 N.T.S.



SECTION A-A
 N.T.S.



SECTION B-B
 N.T.S.

DETAILS
 NOT TO SCALE