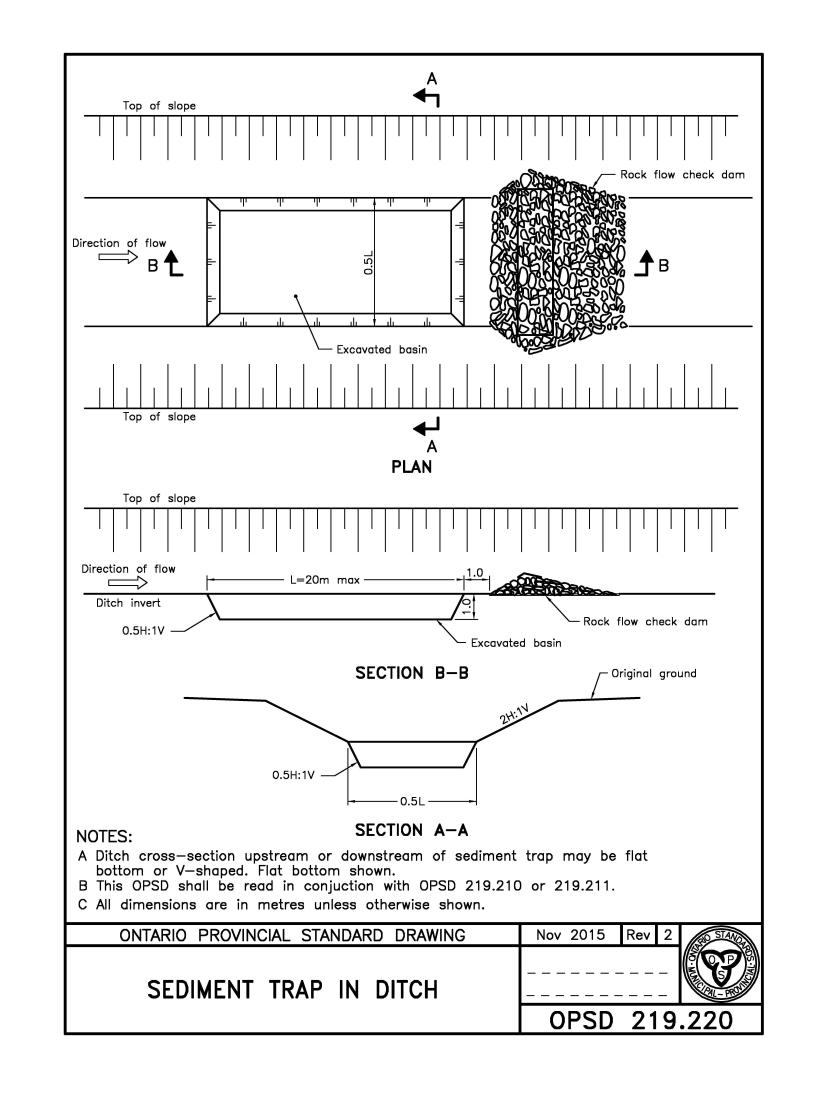
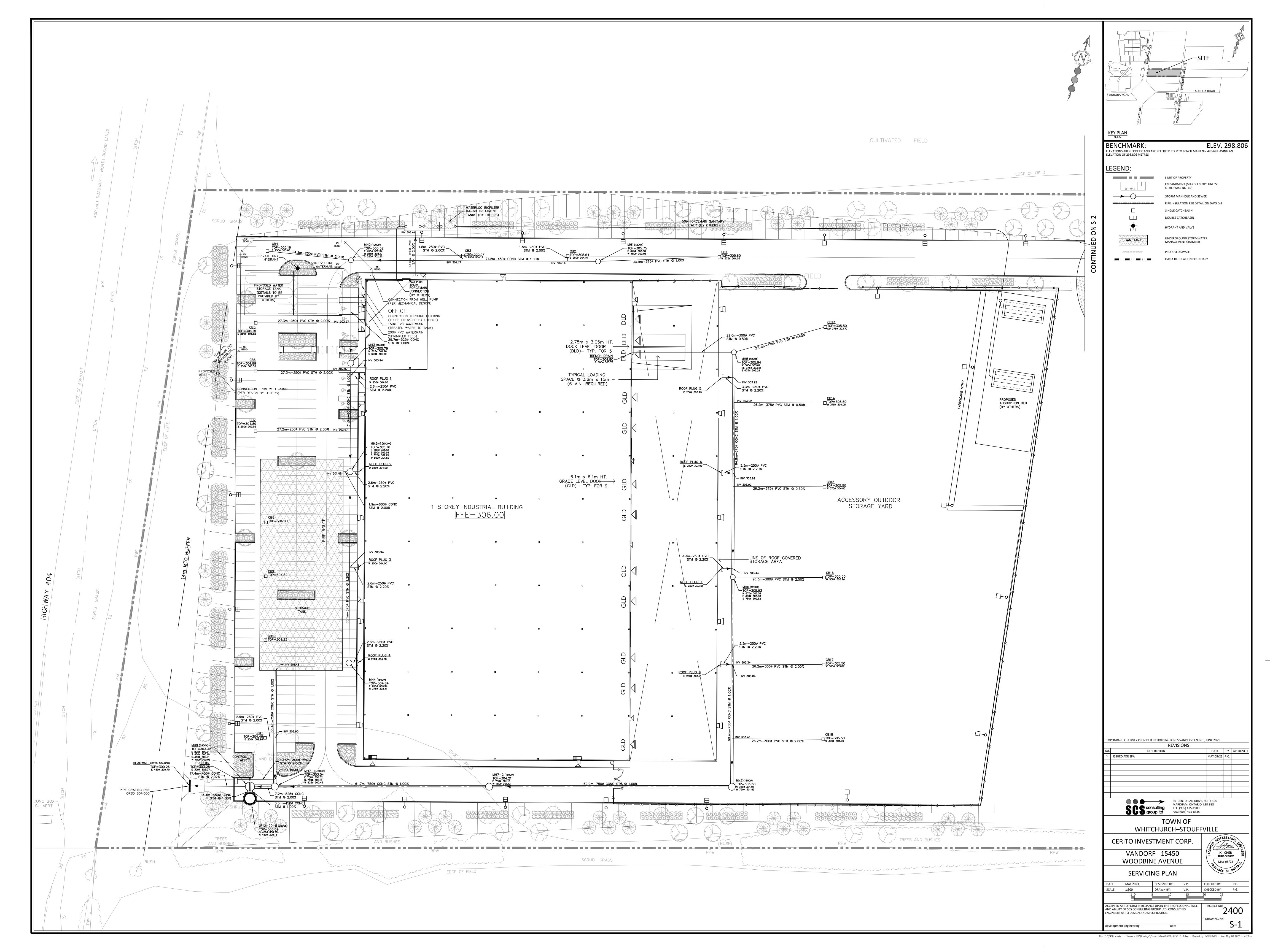


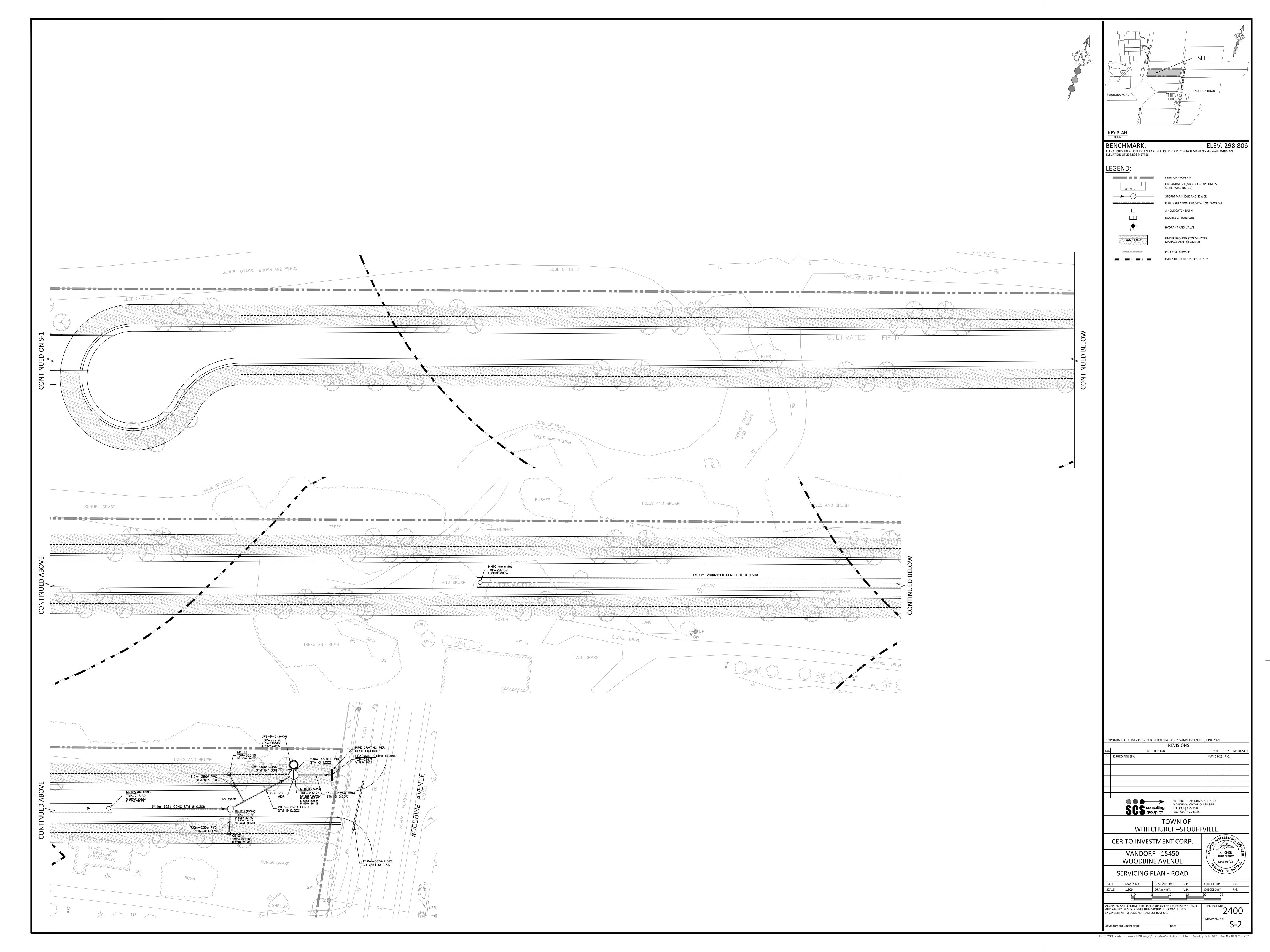
	100mm to 150mm Ø RIP-RAP WRAPPED IN FILTER FABRIC	⊢► /			
	A-WOVEN GEOTEXTILE TERRAFIX 270R OR PROVED EQUIVALENT		3.1 MAX.	SECTION	NA-A
			B A THE DISTANCE SUCH THAT PO "C" ARE OF EQ	NTS "B" AND	
NOT	ES:	BOTTO	NON-WOVEN GEOTEXTILE TERRAFIX 270R OR APPROVED EQUIVALENT	nm OF 50mm Ø AR STONE COVER	ECTION FFLOW
	SEDIMENT SHALL BE REMOVED ORIGINAL DIMENSIONS WHEN ACCUMULATED TO 1/2 THE DE REMOVED SEDIMENT SHALL BE AREA IN SUCH A MANNER THA	I THE SEDIMENT ESIGN DEPTH OF E DEPOSITED IN AT IT WILL NOT E	HAS THE TRAP. A SUITABLE RODE.	2500	
3.	THE STRUCTURE SHALL BE INS AND AFTER EVERY SIGNIFICAN SHALL BE MADE AS NEEDED IN PREVENT SEDIMENT MIGRATIC CONSTRUCTION OPERATIONS A MANNER THAT EROSION AN MINIMIZED.	IT RAINFALL EVE I A TIMELY MAN ON. SHALL BE CARRII	NT AND REPAIRS NER TO ED OUT IN SUCH TION IS	FF DI	G OUT TRENCH IN RONT OF DAM 600mm EEP, MINIMUM 2500mr LENGTH
	ALL DIMENSIONS IN MILLIMET SHOWN.	RES UNLESS OT	IERWISE		
1	SWM GUIDELINES UPDAT	E 06.2016			DATE: 06.201
			SWALE AND ROCK CHECK DA	.M	SCALE: NTS
				LSRC	

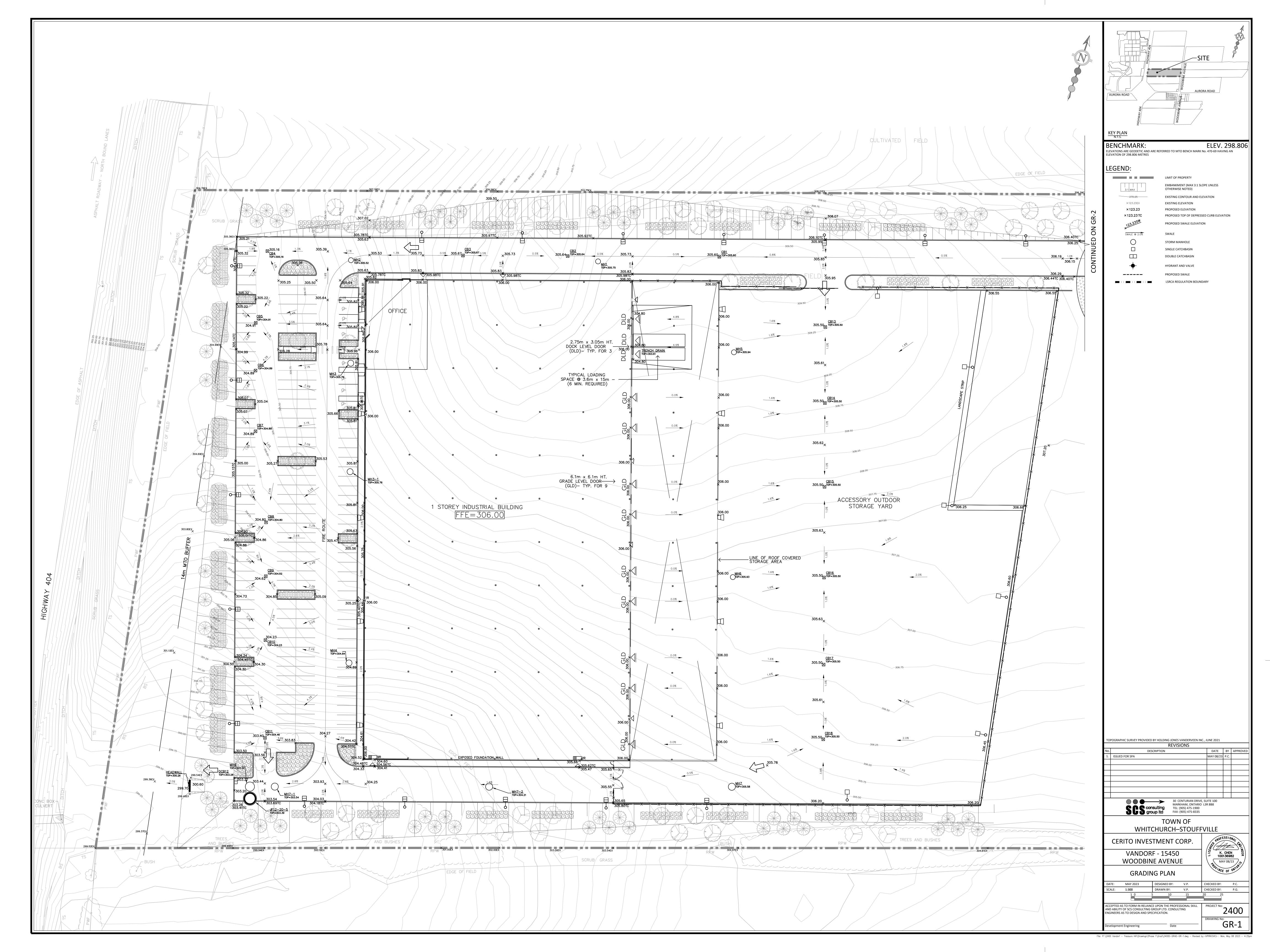


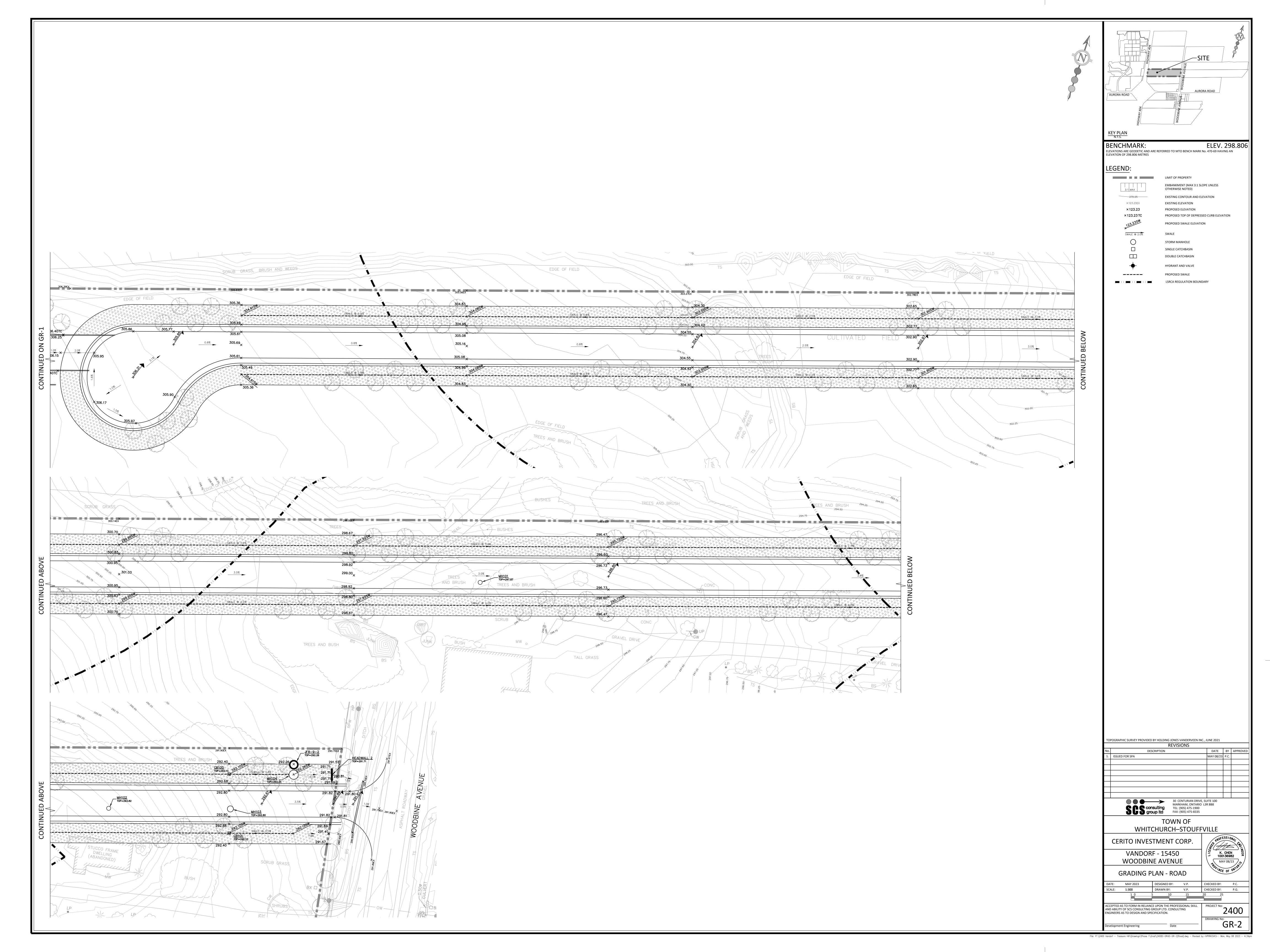
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	GALATIA LAN VANDOI WOODBI	TCHURCH IE ESTATE RF - 1545 NE AVENI	–STOUFI ES INC. 0 UE	PROFE PROFE	CHEN 13698	CNG NEER
ER	GALATIA LAN VANDOI	TCHURCH IE ESTATE RF - 1545 NE AVENI	–STOUFI ES INC. 0 UE	PROFE	CHEN 13698	CNG NEER
ER	GALATIA LAN VANDOI WOODBII ROSION & SED	TCHURCH IE ESTATE RF - 1545 NE AVENI	–STOUFI ES INC. 0 UE	PROFE PROFE	CHEN 13698	CNG NEER
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GENERAL NOTES 1. ALL WORK TO CONFORM WITH THE TOWN OF WHITCHURCH-STOUFFVILLE "STANDARD GUIDELINES" AND DRAWINGS AS POSTED ON THE TOWN'S WEBSITE. THE ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS SHALL BE USED IN CASES WHEN THE TOWN STANDARD GUIDELINES DO NOT APPLY.

IN CASES WHEN THE TOWN STANDARD GUIDELINES DO NOT APPLY.

2. WORKS AND MATERIALS SHALL CONFORM TO CURRENT MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS; MUNICIPAL; REGIONAL; AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS. FOR WORK WITHIN PRIVATE PROPERTY, WORKS AND MATERIALS SHALL CONFORM TO THE ONTARIO BUILDING CODE OR THE ABOVE-NOTED STANDARDS, WHICHEVER IS MORE STRINGENT.

3. PRIOR TO STARTING ANY WORKS, THE CONTRACTOR MUST ENSURE THAT ALL NECESSARY APPROVALS ARE IN PLACE

FROM THE MUNICIPALITY, REGION, AND OTHER EXTERNAL AGENCIES, AS REQUIRED.
VERIFY THE LOCATION, DIMENSIONS AND ELEVATION OF EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION. EXISTING INFRASTRUCTURE TO BE PROTECTED AND/OR SUPPORTED DURING CONSTRUCTION. DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS TO BE IMMEDIATELY REPORTED TO THE EXISTENCE.

5. REFER TO THE ARCHITECTURAL SITE PLAN FOR DIMENSIONS AND LAYOUT INFORMATION.6. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER AN AS-CONSTRUCTED SERVICING DRAWING.

SEWER BEDDING

7. SEWER BEDDING TO BE IN ACCORDANCE WITH OPSD 802.010 & 802.030 (CLASS B).

BEDDING MATERIAL TO BE AS PER THE GEOTECHNICAL REPORT.
 COVER MATERIAL UP TO 300mm ABOVE THE PIPE SHALL CONSIST OF SAND. NATIVE SAND MAY BE USED FOR PIPE COVER IF DIRECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION.

STORM SEWERS

10. MANHOLES SHALL BE IN ACCORDANCE WITH OPSD M701.010 AND CSA A257.4.

MANHOLE COVERS AS PER OPSD M401.01 (TYPE B).
 MANHOLE BENCHING AS PER OPSD 701.021.

14. CATCHBASINS AS PER OPSD 705.010 (SINGLE), 705.020 (DUAL).

13. MANHOLE STEPS SHALL BE SOLID RECTANGULAR ALUMINIUM AS SHOWN IN OPSD 405.01.

15. CATCHBASIN GRATES AS PER OPSD 400.01 UNLESS OTHERWISE SPECIFIED.

16. CATCHBASIN CONNECTIONS AS PER OPSD M708.03.17. CATCHBASIN LEAD MINIMUM SLOPE TO BE 2.00%.

18. ALL CATCHBASIN LEADS SHALL BE 250mm DIAMETER FOR SINGLES, 300mm DIAMETER FOR DOUBLES.

ALL CATCHBASINS TO BE EQUIPPED WITH GOSS TRAP OR APPROVED EQUIVALENT.
 CONCRETE ADJUSTMENT UNITS FOR MANHOLES AND CATCHBASINS: OPSD 704.010, OPSS 407 AND CSA A257.4. MAXIMUM HEIGHT OF ADJUSTMENT UNITS SHALL BE 300mm.

21. ALL STORM SEWER PIPE AND FITTINGS EQUAL TO OR LESS THAN 375mm DIAMETER SHALL BE PVC SDR-35 CONFORM TO CSA-B182.1 LATEST AMENDMENT.

22. ALL STORM SEWER EQUAL TO 450mm DIAMETER AND LARGER SHALL BE EQUAL TO CSA SPECIFICATIONS A257.2 OR LATEST AMENDMENT, CONCRETE CL-65-D UNLESS OTHERWISE NOTED ON THE DRAWING.
 23. ALL SEWER AND MANHOLE JOINTS AS PER CSA A257.3

24. ALL SEWER JOINTS LOCATED IN FINE SANDS AND/OR WATER BEARING SILT (AS IDENTIFIED BY THE GEOTECHNICAL ENGINEER) MUST BE WRAPPED WITH FILTER CLOTH (AS DIRECTED BY CONSULTING ENGINEER).
 25. ALL MANHOLES LOCATED IN FINE SANDS AND/OR WATER BEARING SILT MUST BE PARGED AND PAINTED WITH

BITUMINOUS PAINT (AS DIRECTED BY GEOTECHNICAL ENGINEER).

26. LASER ALIGNMENT AND ELEVATION CONTROL TO BE UTILIZED FOR SEWER INSTALLATIONS.

FORMAT TO THE ENGINEER FOR REVIEW.

28. AREA AND TRENCH DRAINS TO BE PER DESIGN BY MECHANICAL ENGINEER.

WATERMAINS

29. WATERMAIN 300mm OR LESS SHALL BE POLYVINYL CHLORIDE (PVC) CLASS 150, DR 18 CONFORMING TO AWWA
C-900-70 AND CSA 0137.3 LATEST AMENDMENT. ALL PVC WATERMAIN SHALL BE INSTALLED COMPLETE WITH TRACING

27. FLUSH AND INSPECT SEWERS VIA CCTV CAMERA. SUBMIT ONE WRITTEN REPORT AND TWO DVD VIDEOS IN AN MPEG

30. ALL VALVES SHALL OPERATE COUNTER CLOCKWISE TO OPEN.

31. ALL GATE VALVE & VALVE BOXES TO BE COMPLETE WITH TRACER STATIONS.

32. ALL MAIN LINE VALVE BOXES TO BE COMPLETE WITH TRACER STATIONS.33. ALL VALVES TO BE COMPLETE WITH RESILIENT SEAT.

34. ALL VALVE BODIES TO BE EPOXY COATED WITH ZINC ANODES (5.5kg).

35. WATERMAIN BEDDING SHALL BE AS PER OPSD 802.010.

36. ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON CEMENT LINED IN ACCORDANCE WITH AWWA STANDARD C110 - LATEST REVISION.
 37. CONCRETE THRUST BLOCKS ARE TO BE INSTALLED AT ALL TEES, BENDS, HYDRANTS AND PLUGS AS PER OPSD 1103.010

AND ONTARIO BUILDING CODE S.7.3.4.9.

38. ALL WATERMAIN TO BE RESTRAINED. RESTRAIN USING BELL CLAMPS, RETAINING GLANDS AND THREADED ROD. ALL

38. ALL WATERMAIN TO BE RESTRAINED. RESTRAIN USING BELL CLAMPS, RETAINING GLANDS AND THREADED ROD. A METAL PARTS SHALL BE GALVANIZED OR PAINTED WITH BITUMINOUS PAINT.39. ALL FIRE HYDRANTS TO BE PROVIDED WITH ANCHOR TEES.

40. HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH TOWN MODIFIED OPSD M1105.010, WITH STORZ TYPE PUMPER NOZZLE AND PAINTED RED. THE FOLLOWING IS A LIST OF HYDRANTS APPROVED BY THE TOWN OF WHITCHURCH-STOUFFVILLE:

a) DARLING B-50B-24 b) CENTURY c) McAVITY M67

41. LOCK-OUT DEVICES ARE REQUIRED ON ALL HYDRANTS.

42. ALL WATERMAIN SHALL HAVE A MINIMUM 2.5M HORIZONTAL CLEARANCE FROM SEWERS AND SEWER MANHOLES, MEASURED FROM THE NEAREST EDGES.

43. ALL WATERMAIN SHALL HAVE A MINIMUM 0.5m VERTICAL CLEARANCE FROM ALL UTILITIES WHILE MAINTAINING 1.80m MINIMUM DEPTH OF COVER AT ALL TIMES UNLESS OTHERWISE NOTED. WATERMAIN SHALL BE INSTALLED WITH JOINTS LOCATED AT MINIMUM 2.5m FROM TJE POINT OF CROSSING.
44. THE TOWN OR ITS AGENT MUST BE NOTIFIED AT LEAST 3 WORKING DAYS IN ADVANCE OF ANY PRESSURE AND

LEAKAGE TESTING, CHLORINATION OR FLUSHING WHICH MUST BE CARRIED OUT IN ACCORDANCE WITH APPENDIX 'A'
OF THE TOWN OF WHITCHURCH-STOUFFVILLE STANDARD GUIDELINES AND DRAWINGS AS POSTED ON TOWN'S WEB
SITE.

45. FLUSHING, PRESSURE TESTING, CHLORINATION AND SAMPLING SHALL BE DONE IN ACCORDANCE WITH APPENDIX 'A'

45. FLUSHING, PRESSURE TESTING, CHLORINATION AND SAMPLING SHALL BE DONE IN ACCORDANCE WITH APPENDIX 'A'
OF THE TOWN OF WHITCHURCH-STOUFFVILLE STANDARD GUIDELINES AND DRAWINGS.

GRADING AND ROAD WORKS

46. PRIVATE PAVEMENT STRUCTURE TO BE PER GEOTECHNICAL REPORT.
- LIGHT-DUTY PARKING

40mm HL3 ASPHALT SURFACE 50mm HL8 ASPHALT BASE 150mm 19-mm CRL OR EQUIVALENT 300mm 50-mm CRL OR EQUIVALENT - HEAVY-DUTY AND FIRE ROUTE

- HEAVY-DUTY AND FIRE ROUTE 40mm HL3 ASPHALT SURFACE 100mm HL8 ASPHALT BASE 150mm 19-mm CRL OR EQUIVALENT 450mm 50-mm CRL OR EQUIVALENT

47. PAVEMENT STRUCTURE WITHIN YORK REGION RIGHT-OF-WAY: 50mm SP-12.5

100mm SP-19 150mm GRANULAR 'A' 450mm GRANULAR 'B'

48. PRIOR TO COMMENCEMENT OF EARTHWORKS, SITE ALTERATION PLANS MUST BE APPROVED AND ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND OPERATIONAL. THE CONTRACTOR SHALL MAINTAIN ALL WORKS UNTIL CONSTRUCTION IS COMPLETED TO THE SATISFACTION OF THE ENGINEER.
49. ENGINEERED FILL SHALL CONFORM TO THE SPECIFICATIONS PROVIDED IN THE GEOTECHNICAL REPORT, OR LATEST AMENDMENT THEREOF.

50. ENGINEERED FILL SHALL BE INSPECTED AND TESTED BY THE GEOTECHNICAL CONSULTANT. PROOF ROLLING OF SUBGRADE WILL BE REQUIRED PRIOR TO PLACEMENT OF GRANULAR MATERIALS. COORDINATE INSPECTIONS WITH

GEOTECHNICAL CONSULTANT.

51. GRANULAR SUB-BASE AND BASE MUST BE UNIFORMLY COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY

52. 19 mm AND 50 mm CRUSHER RUN LIMESTONE SHALL MEET OPSS REQUIREMENT FOR GRANULAR 'A' AND GRANULAR 'B'
TYPE II, RESPECTIVELY.

53. ASPHALT MATERIALS TO BE COMPACTED PER GEOTECHNICAL REQUIREMENTS.54. TRANSVERSE LAP JOINTS SHALL BE USED WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT. THE LAP JOINT SHALL

54. TRANSVERSE LAP JOINTS SHALL BE USED WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT. THE LAP JOINT SHALL BE CONSTRUCTED TO KEY THE NEW ASPHALT INTO THE EXISTING SURFACING BY 50mm THICK AND 300mm WIDE. REFER TO DETAIL ON THIS DRAWING.
 55. SIDEWALK SHALL BE AS PER OPSD M310.010. CONCRETE TO BE 30MPa ON PLIABLE IMPERVIOUS UNDERLAYMENT 100μm THICK POLYETHYLENE VAPOUR BARRIER PLACED ON 100mm OF GRANULAR 'A' OR EQUIVALENT.

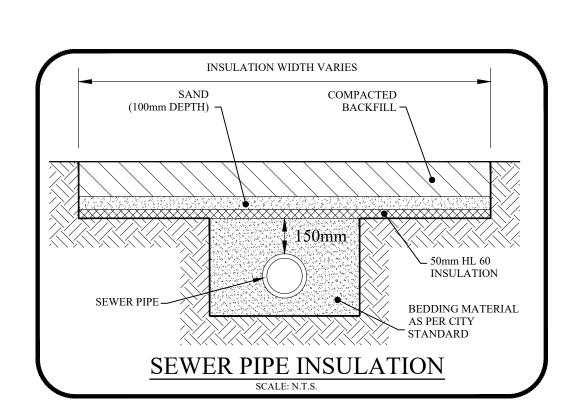
56. ALL SOD TO BE No.1 NURSERY SOD ON 300MM TOPSOIL.
 57. EMBANKMENTS SHALL BE SLOPED AT A MAXIMUM OF 3H:1V, UNLESS OTHERWISE SPECIFIED.

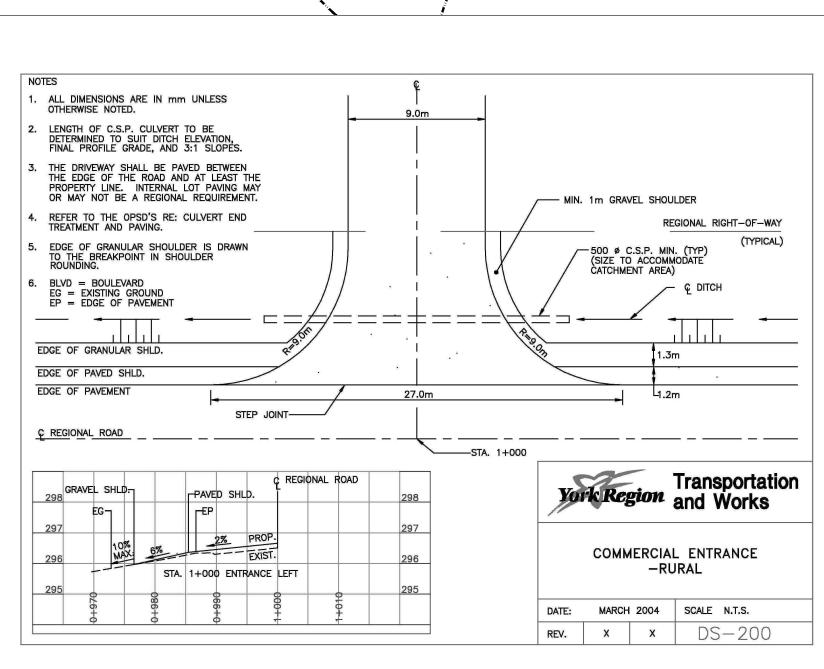
58. DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. THE RELOCATION OR REMOVAL OF TREES AND SHRUBS SHALL BE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT OR ENGINEER.

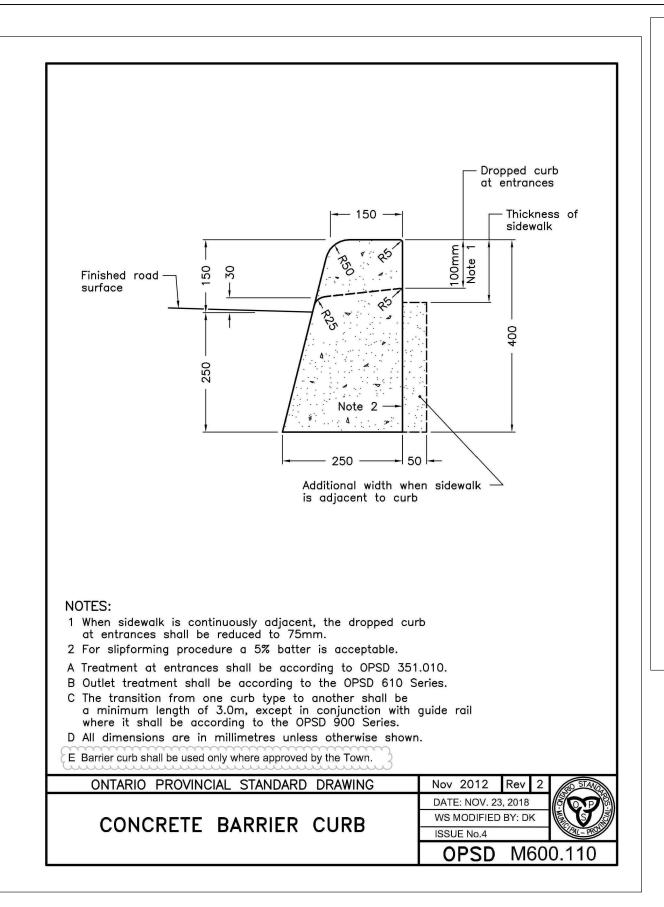
59. REFER TO LANDSCAPE DRAWINGS FOR LOCATION AND TYPE OF ALL HARD LANDSCAPE SURFACES, INCLUDING

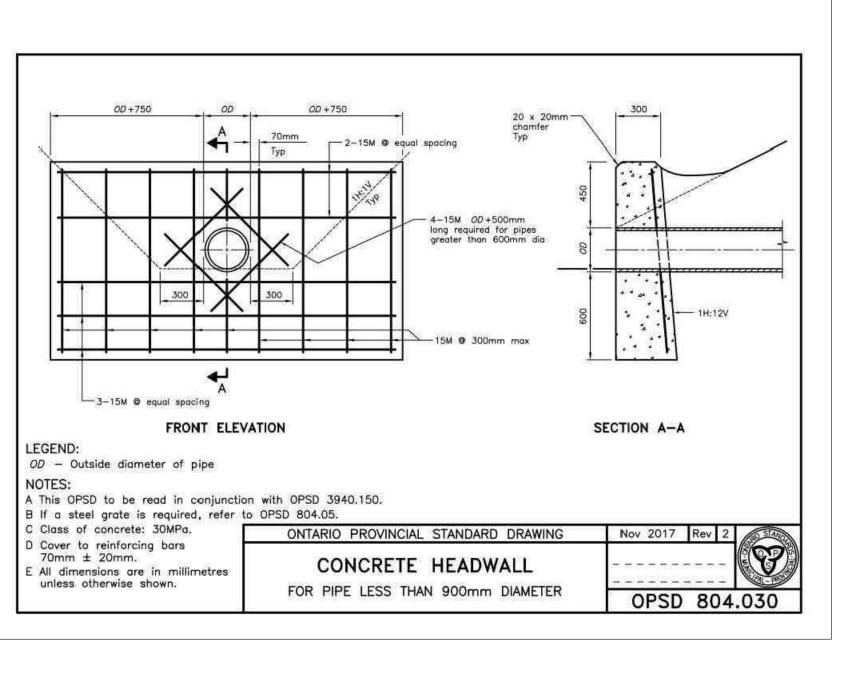
CONCRETE SIDEWALKS, PAVING STONES, COLOURED CONCRETE, ETC.

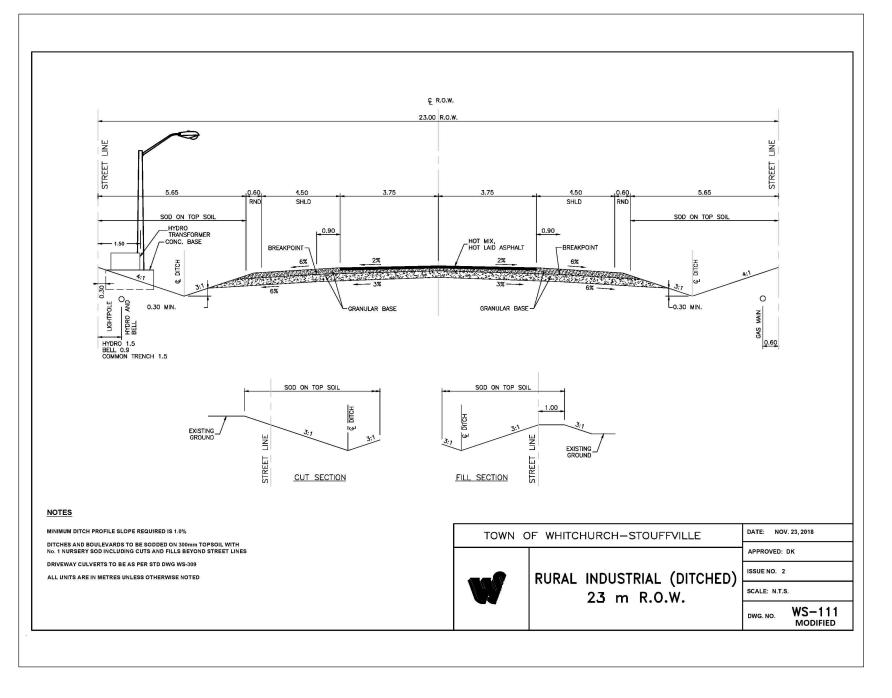
60. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER AN AS-CONSTRUCTED GRADING DRAWING.

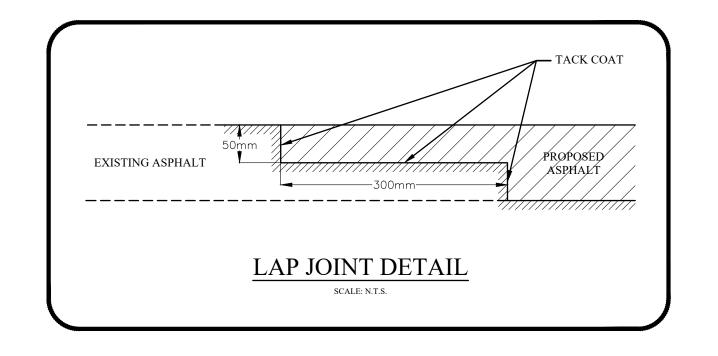












TOPOGRAPHIC SURVEY PROVIDED BY HOLDING JONES VANDERVEEN INC., JUNE 2021 DATE BY APPROVE DESCRIPTION MAY 08/23 P.C. ISSUED FOR SPA 30 CENTURIAN DRIVE, SUITE 100 MARKHAM, ONTARIO L3R 8B8 SGS consulting TEL: (905) 475-1900 FAX: (905) 475-8335 TOWN OF WHITCHURCH-STOUFFVILLE CERITO INVESTMENT CORP **VANDORF - 15450 WOODBINE AVENUE** MAY 08/23 **DETAILS PLAN** MAY 2023 DESIGNED BY: V.P. CHECKED BY: P.C. CHECKED BY: P.G. ACCEPTED AS TO FORM IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF SCS CONSULTING GROUP LTD. CONSULTING ENGINEERS AS TO DESIGN AND SPECIFICATION.