

CHEO Integrated Treatment Centre

ISSUED FOR SPC RESUBMISSION
2025-04-01

VOLUME 2 - CIVIL



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MODERN
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SHEET LIST - CIVIL	
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C0008	TYPICAL DETAILS AND NOTES PLAN
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23/12/20	ISSUED FOR BUILDING PERMIT (TUNNEL)
23/12/15	RE-ISSUED FOR 50K CD SUBMISSION
23/12/15	ISSUED FOR 50K CD SUBMISSION



CHCEO INTEGRATED
TREATMENT CENTRE
31 SMYTH RD, OTTAWA, ON K1H8L1

SHEET LIST

SALE:

AWIN BY: DL, TK, ZS

VIEWED BY: SF

NUMBER: 2021-0821-13

OT DATE: 2025.04.01

AWIN NUMBER:

C0006

GENERAL NOTES

1. DMC LEGAL BOUNDARY AND TOPOGRAPHICAL INFORMATION FROM SURVEY BY TALLHOF METOPATI & WOODLAND LIMITED DATE SEPTEMBER 17, 2018.
2. DMC LEGAL BOUNDARY AND TOPOGRAPHICAL INFORMATION FROM SURVEY BY TALLHOF METOPATI & WOODLAND LIMITED DATE SEPTEMBER 17, 2018.
3. THIS SET OF PLANS SHALL NOT BE USED FOR CONSTRUCTION UNLESS IT IS APPROVED BY THE DESIGN ENGINEER AND APPROVED BY THE LOCAL MUNICIPALITY.
4. NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.
5. THIS PLAN IS TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF WATERFEDY.
6. THE POSITION OF FOLE LINES, CONDUITS, WATERMANS, SEWERS, AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONSTRUCTION DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM AND THOSE NOT LOCATED PRIOR TO CONSTRUCTION.
7. ANY AREA DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE CONSULTANT AND AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL DAMAGED AREAS AND RESTORED PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY TO MUNICIPAL STANDARDS.
8. ALL HEALTH AND SAFETY RELATED SIGNAGE MUST BE POSTED AT THE SITE AS REQUIRED BY APPLICABLE LAW AND BEST MANAGEMENT PRACTICES.
9. AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CONSULTANT WITH A DIGITAL FILE OF AS-CONSTRUCTED DRAWINGS. THE DRAWINGS MUST REFLECT THE CONSTRUCTED STATE OF THE WORK. SUBMISSION OF UNALTERED DESIGN DRAWINGS AND CONSTRUCTION CHANGES WILL NOT BE ACCEPTED.

EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA. THEY ARE TO BE APPROPRIATE TO THE SITE CONDITIONS AND TO THE TYPE OF SOILS. THE EROSION CONTROL MEASURES SHALL BE DESIGNED TO PREVENT EROSION, SLOPE FAILURE, AND TO MAINTAIN THE STABILITY OF THE EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES SHALL BE DESIGNED TO PREVENT EROSION, SLOPE FAILURE, AND TO MAINTAIN THE STABILITY OF THE EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES SHALL BE DESIGNED TO PREVENT EROSION, SLOPE FAILURE, AND TO MAINTAIN THE STABILITY OF THE EROSION CONTROL MEASURES.
2. EROSION AND SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED DURING CONSTRUCTION IN ACCORDANCE WITH THE GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITE (GOVERNMENT OF ONTARIO, MAY 1987). THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEETING ALL EROSION AND SEDIMENT CONTROL REQUIREMENTS.
3. TO PREVENT SURFACE EROSION FROM ENTERING ANY STORM SEWER SYSTEM DURING CONSTRUCTION, FILTER CLOTHS WILL BE PLACED UNDER GRATES OF NEARBY CATCHBASINS AND STRUCTURES. A LIGHT DUTY SLURRY BARRIER WILL ALSO BE INSTALLED AROUND THE CONSTRUCTION AREA. UNLESS APPLICABLE, THESE EROSION CONTROL MEASURES WILL BE IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. TO LIMIT EROSION, MINIMIZE THE AMOUNT OF EXPOSED SOILS AT ANY GIVEN TIME, REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE AND PROTECT EXPOSED SOILS WITH NATURAL OR SYNTHETIC MULCHES.
5. FOR MATERIAL STOCKPILING, MINIMIZE THE AMOUNT OF EXPOSED MATERIALS AT ANY GIVEN TIME. APPLY TEMPORARY REVEGETATION OR COVERING TO EXPOSED MATERIALS AS REQUIRED TO MAINTAIN STOCKPILING MATERIALS THAT WILL NOT BE USED WITHIN 14 DAYS.
6. THE SEDIMENT CONTROL MEASURES SHALL NOT BE REMOVED, IN THE OPINION OF THE ENGINEER, THE MEASURES ARE NO LONGER REQUIRED, NO CONTRACTOR MEASURES SHALL BE REMOVED WITHOUT PRIOR AUTHORIZATION FROM THE ENGINEER.
7. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL UNDESIRABLE EROSION OR SEDIMENTATION OF ADDITIONAL CONSTRUCTION MATERIALS. MEASURES INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES SHALL BE INSTALLED IMMEDIATELY. EROSION CONTROL MEASURES SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
8. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY THE APPLICABLE REGULATORY AGENCY.
9. ROADWAYS ARE TO BE SWIFT AS REQUIRED OR AS DIRECTED BY THE ENGINEER AND/OR THE MUNICIPALITY.
10. THE CONTRACTOR SHALL ENSURE PROPER DUST CONTROL, IS PROVIDED WITH THE APPLICATION OF WATER (AND IF REQUIRED, CALCIUM CHLORIDE) DURING DRY WEATHER. MONITOR DUST LEVELS DURING SITE PREPARATION, EXCAVATION, AND CONSTRUCTION ACTIVITIES, AND WHEN DUST LEVELS BECOME VISUALLY APPARENT SPRAY WATER TO MAINTAIN DUST RELEASE OF DUST FROM GRAVEL, PAVED AREAS AND EXPOSED SOILS. USE CHEMICAL DUST SUPPRESSANTS ONLY WHERE NECESSARY ON PAVED AREAS.

GRADING NOTES

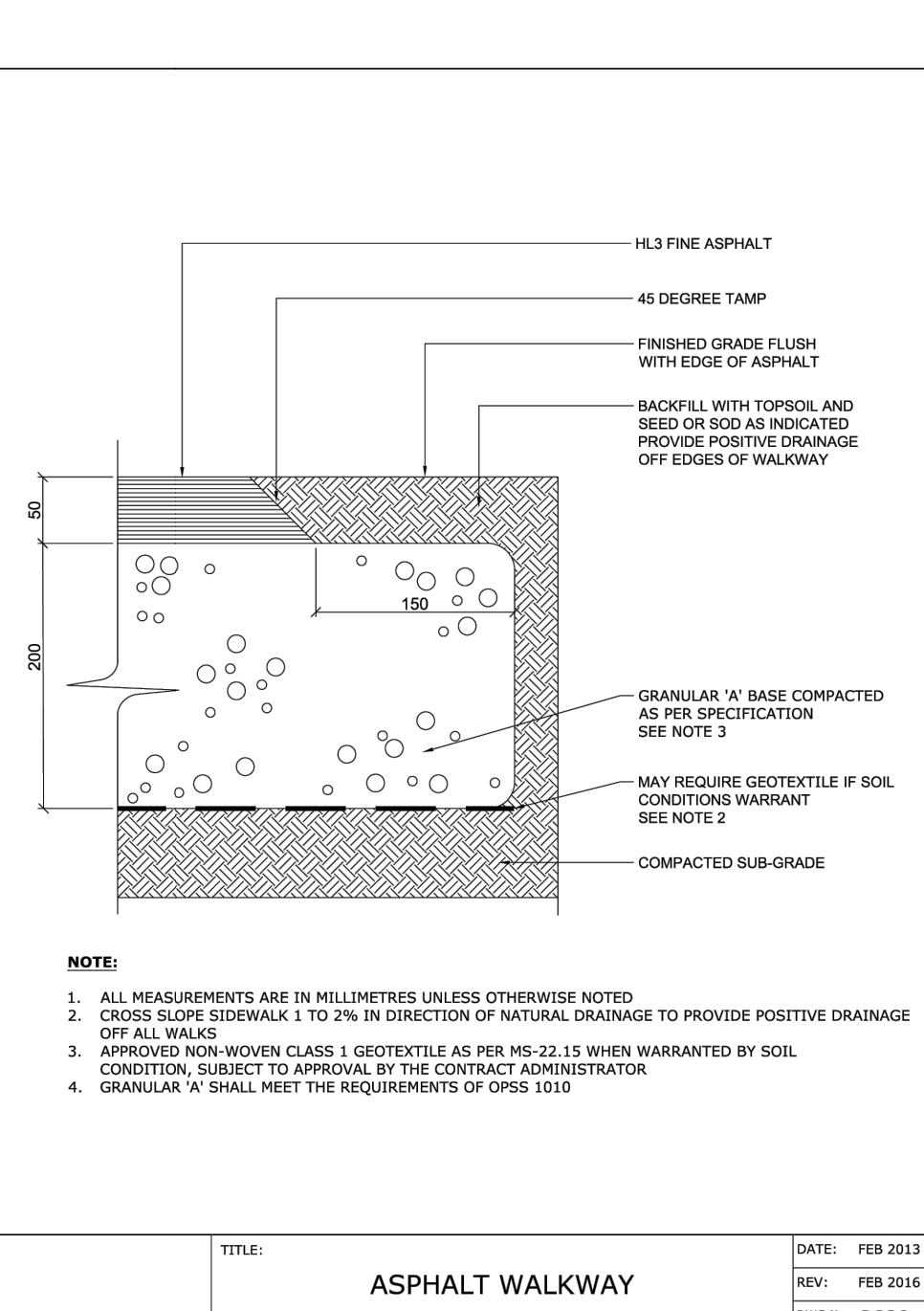
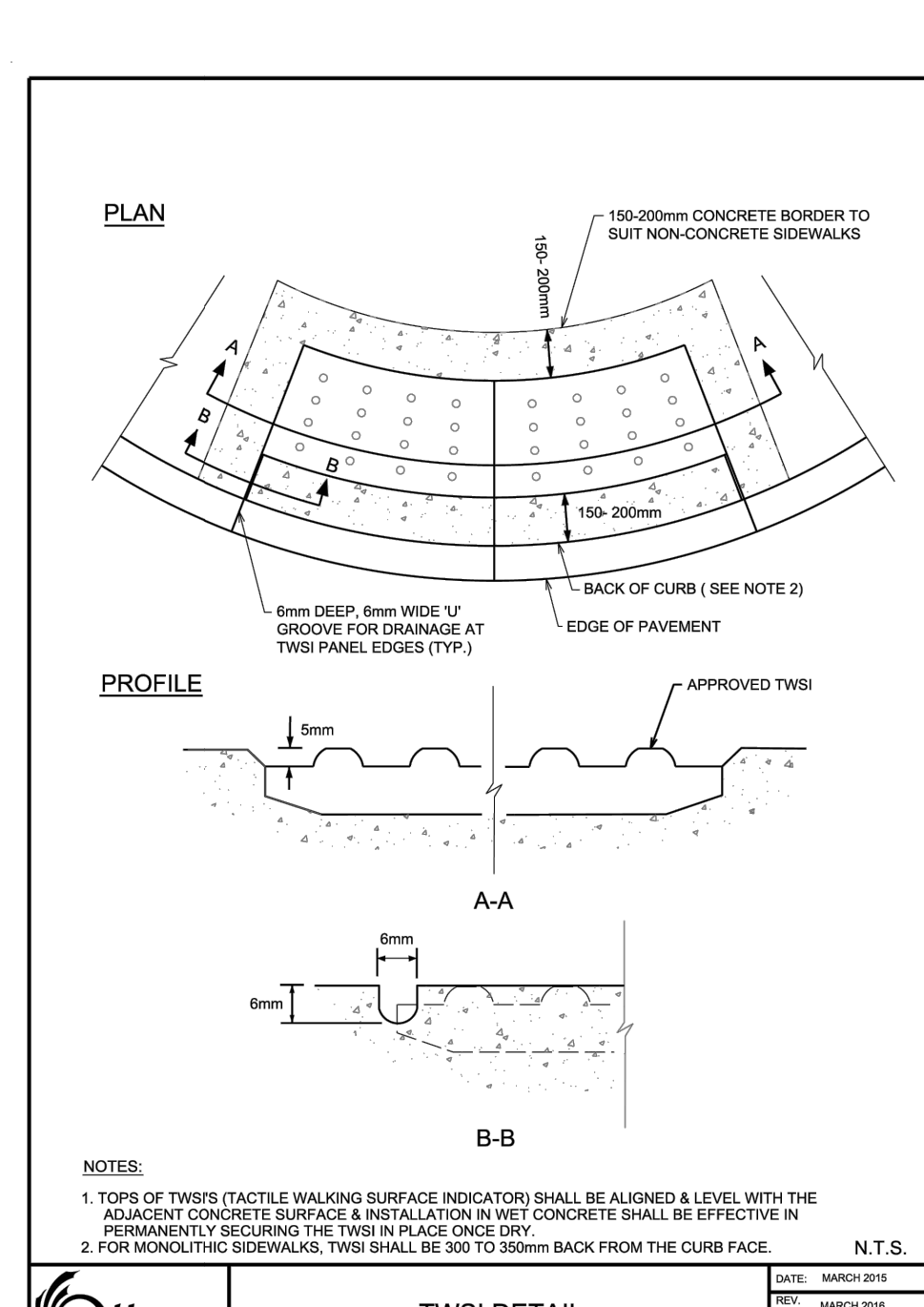
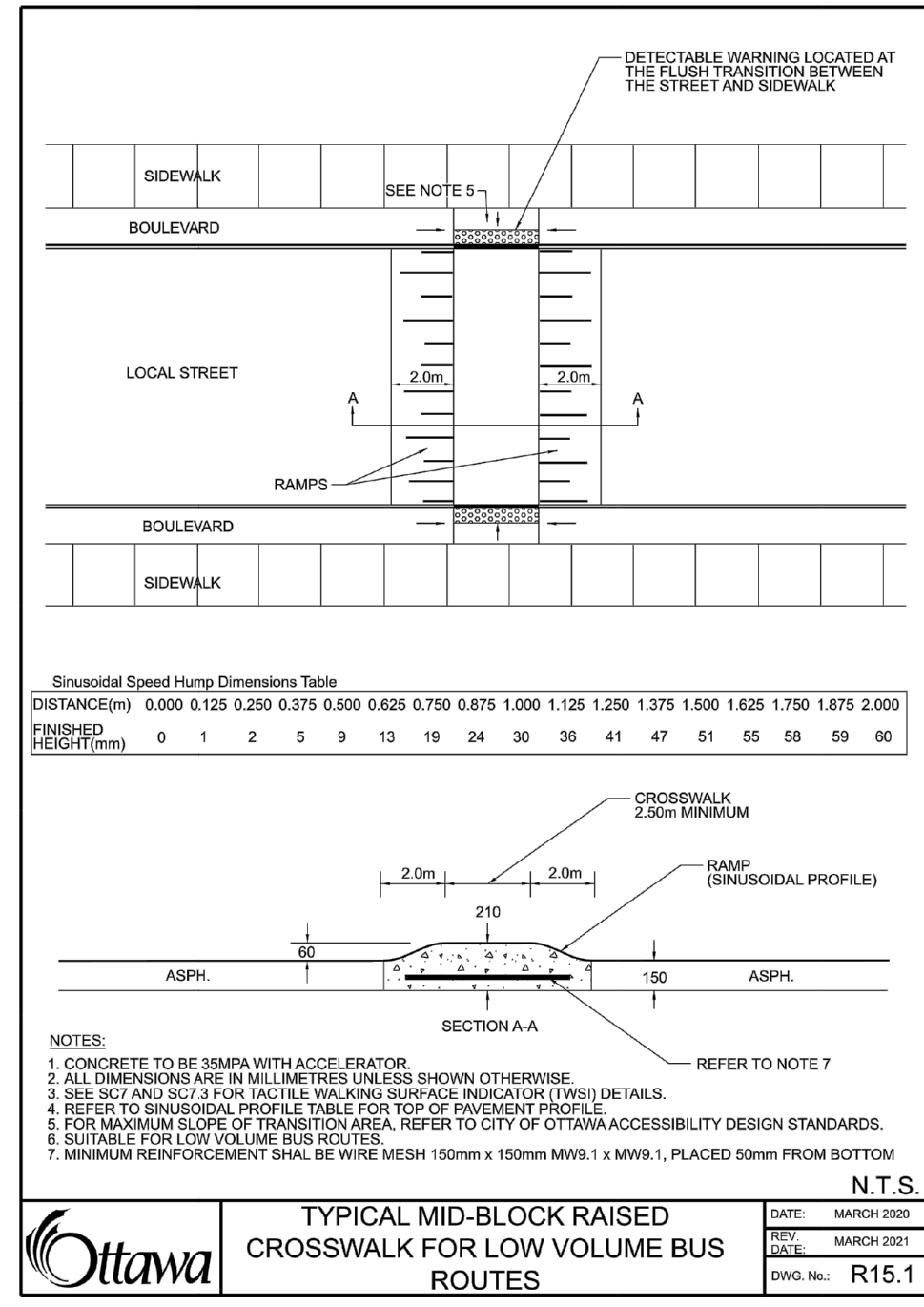
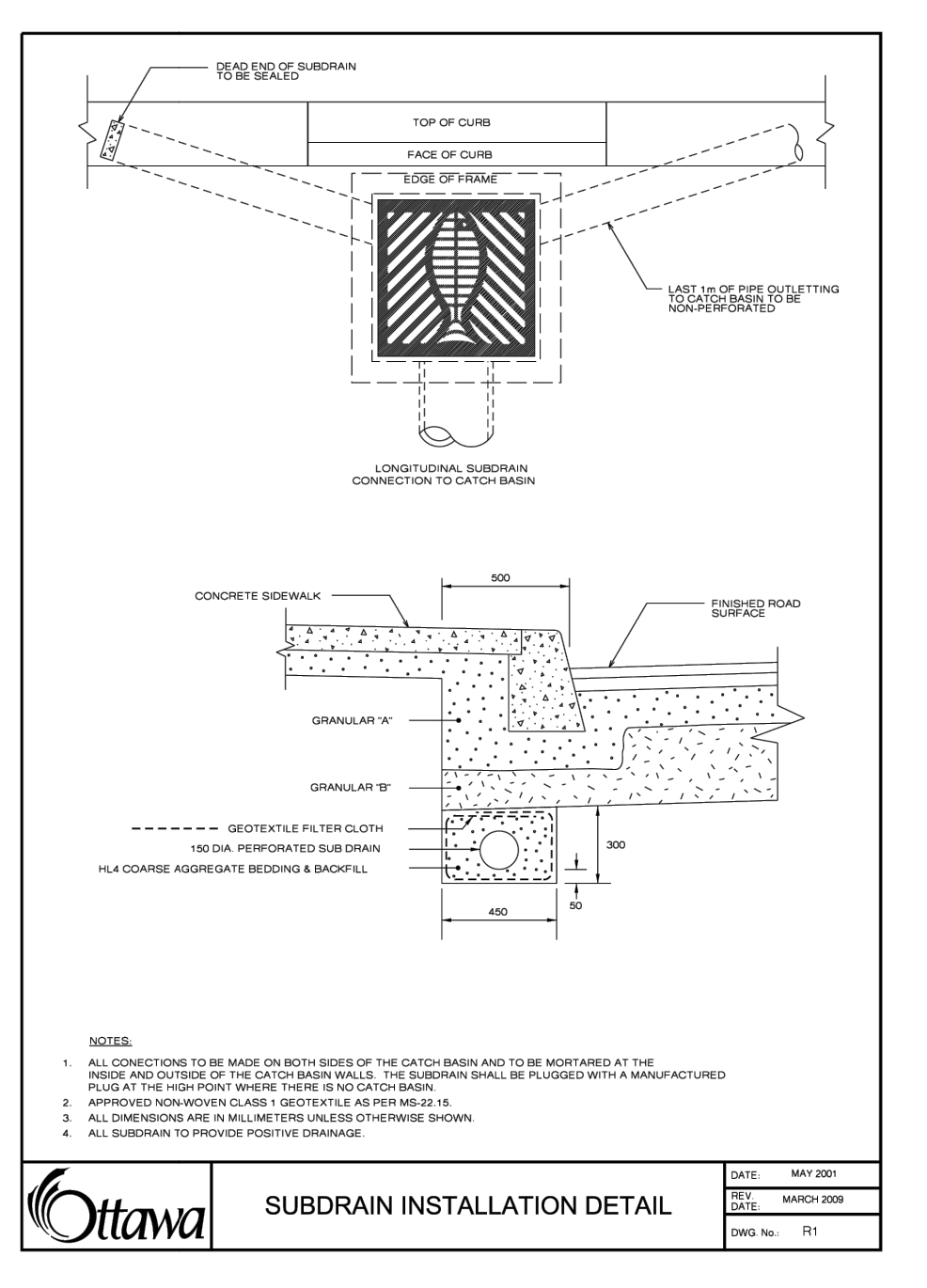
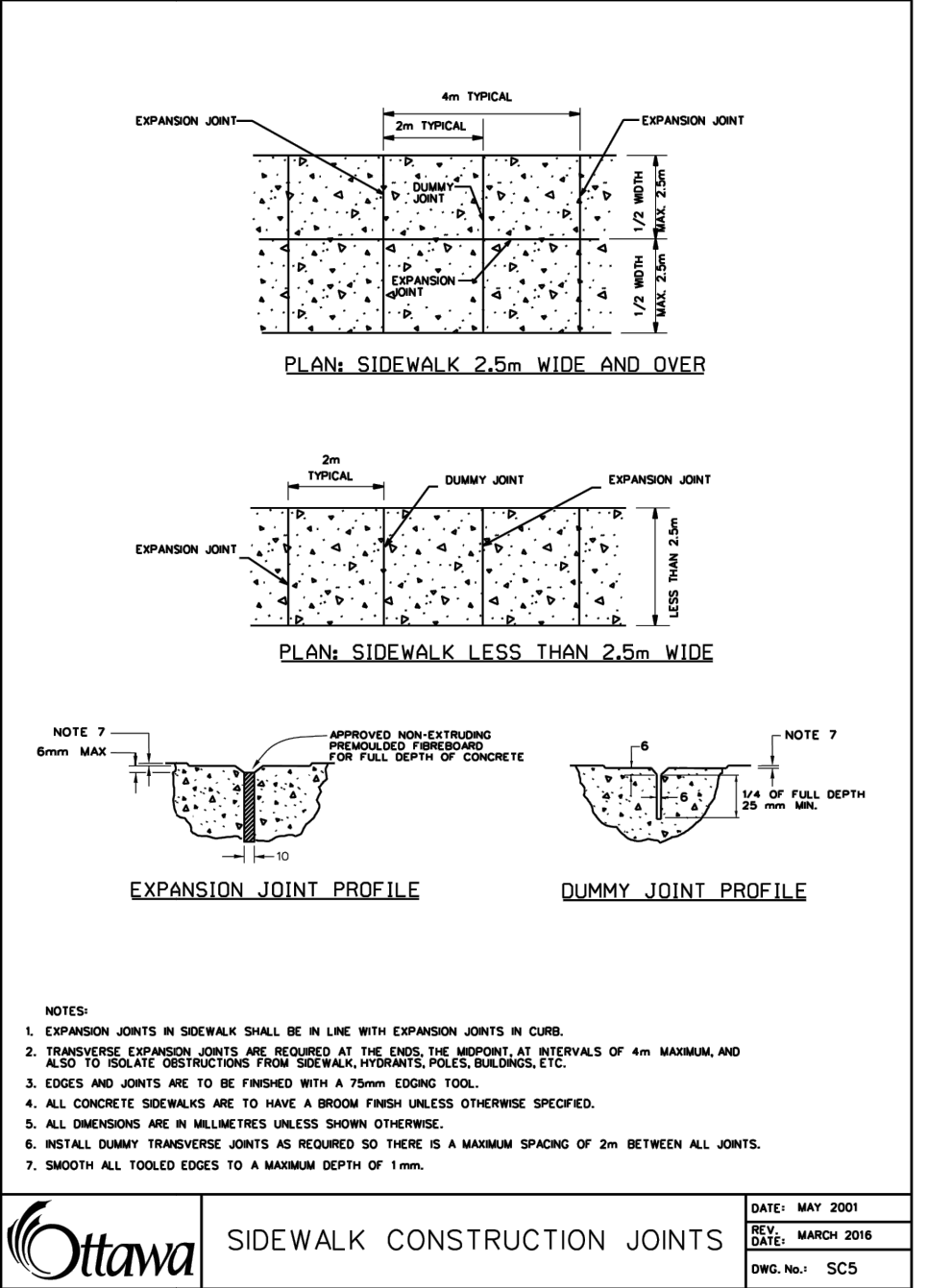
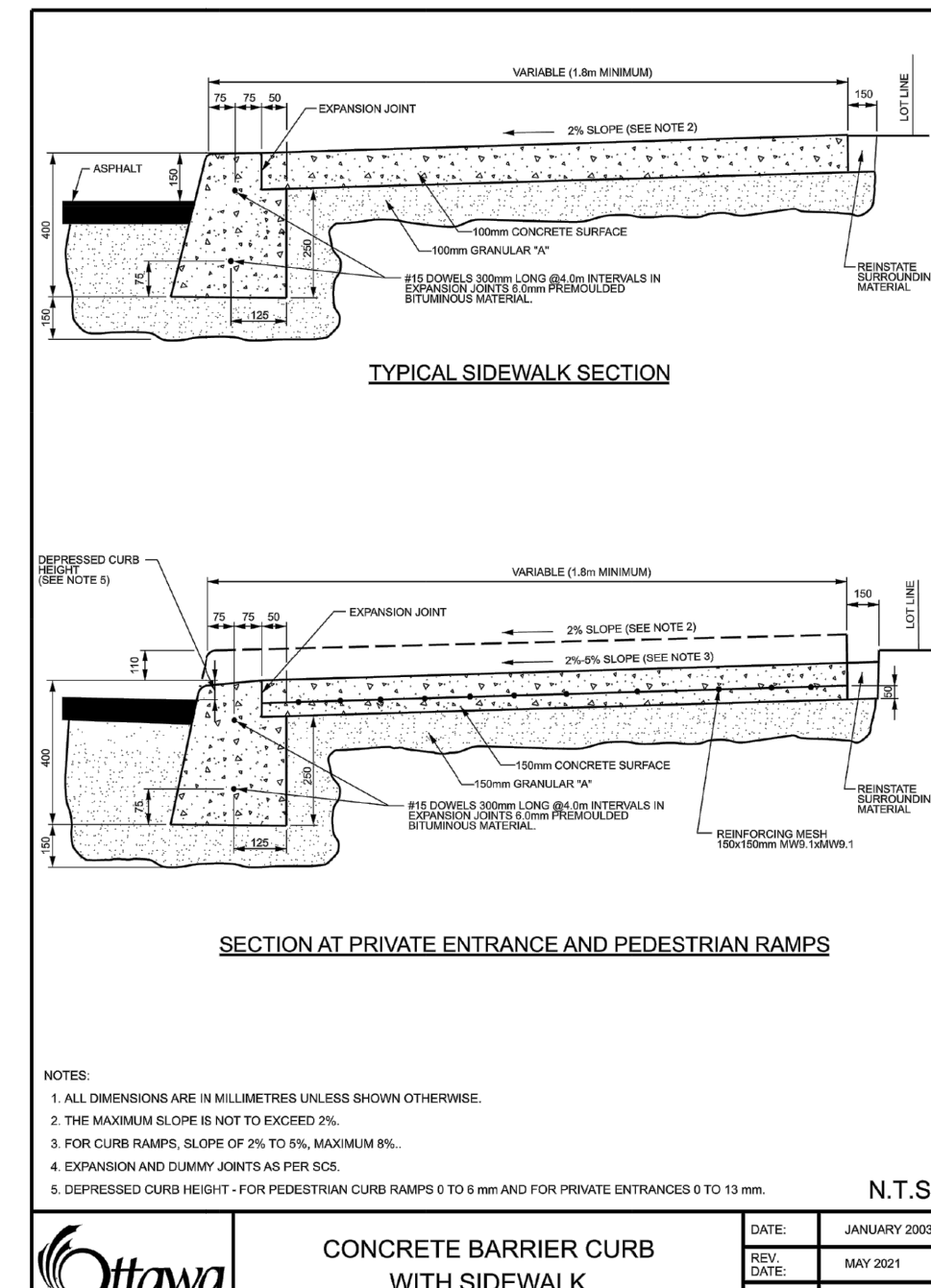
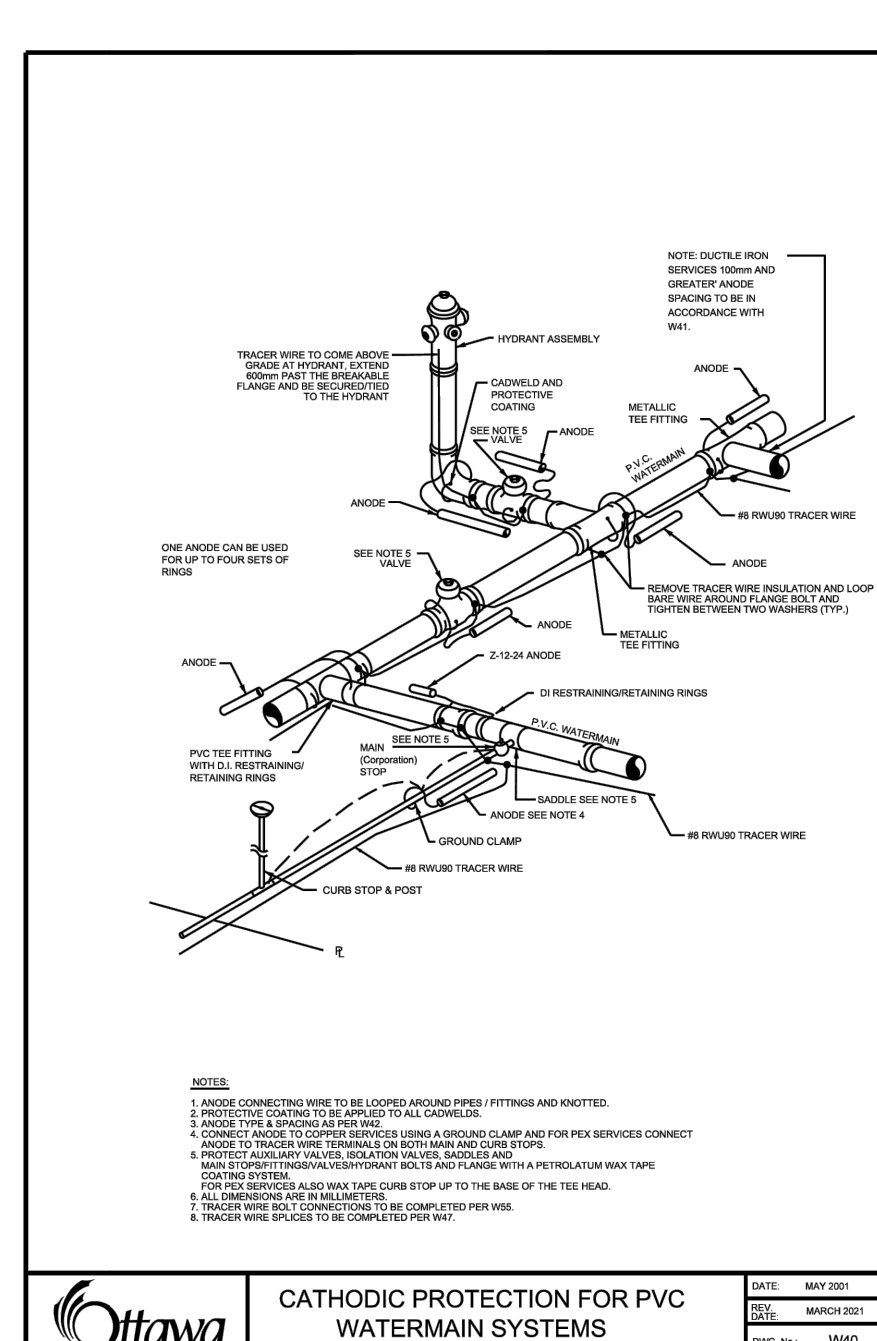
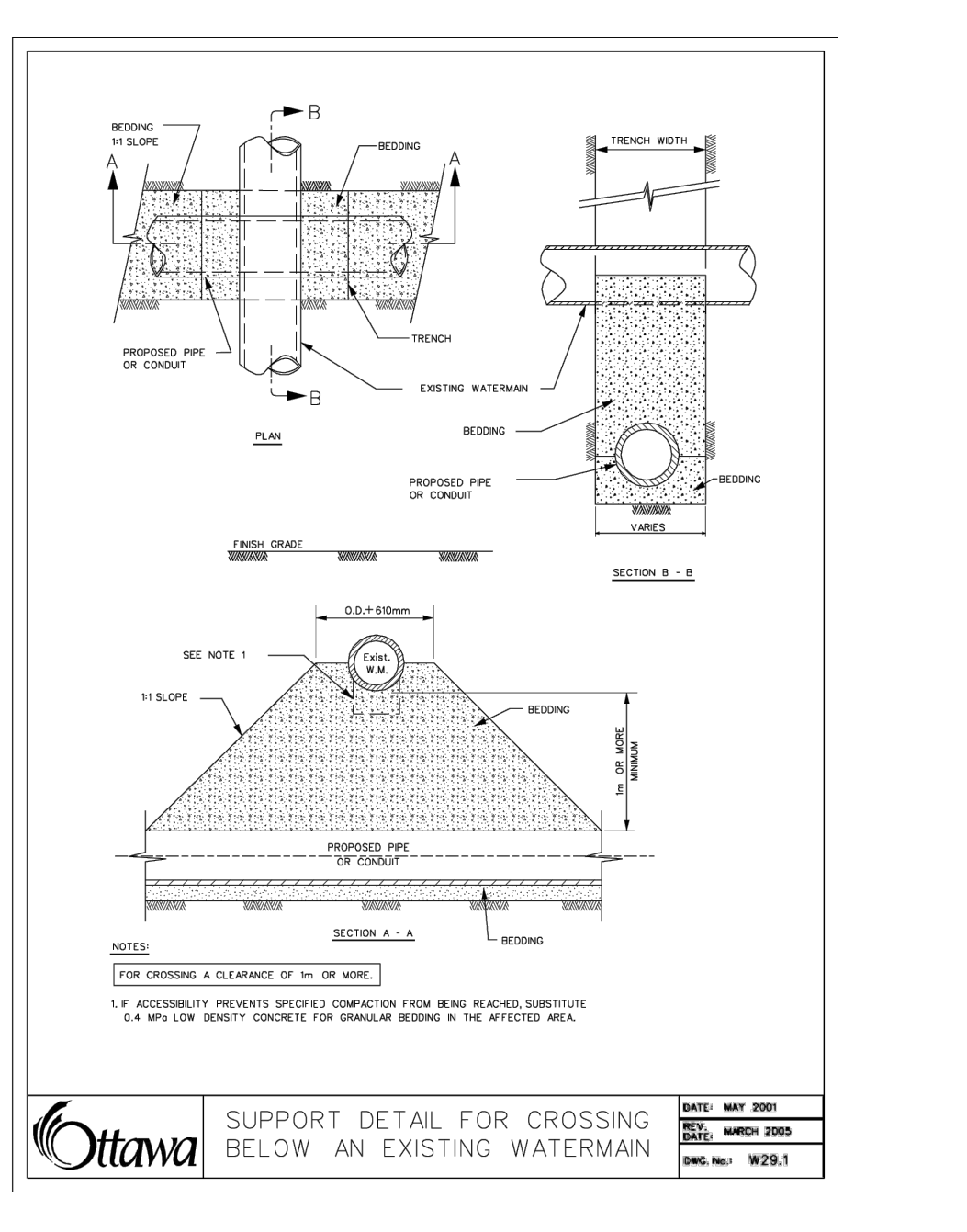
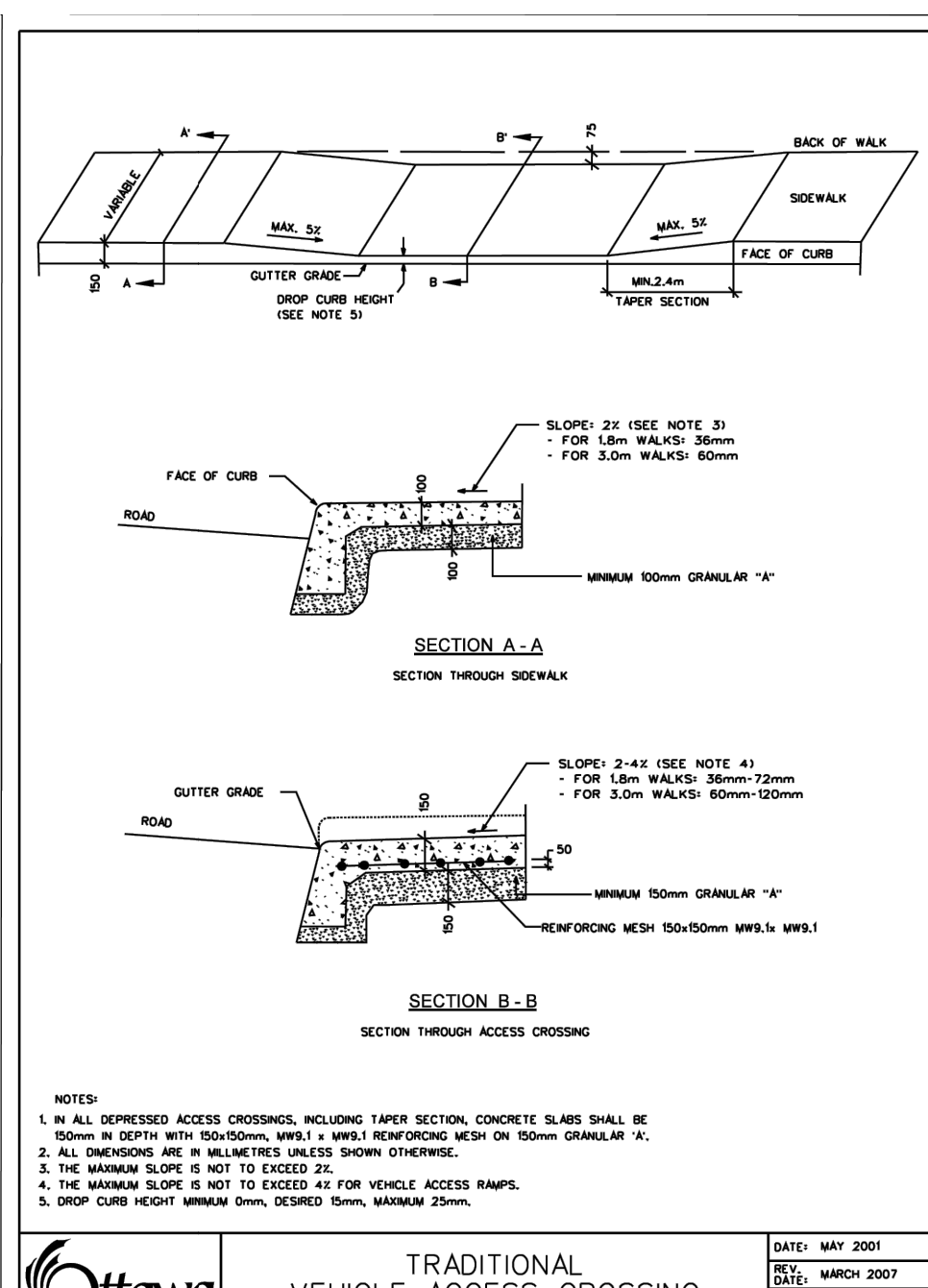
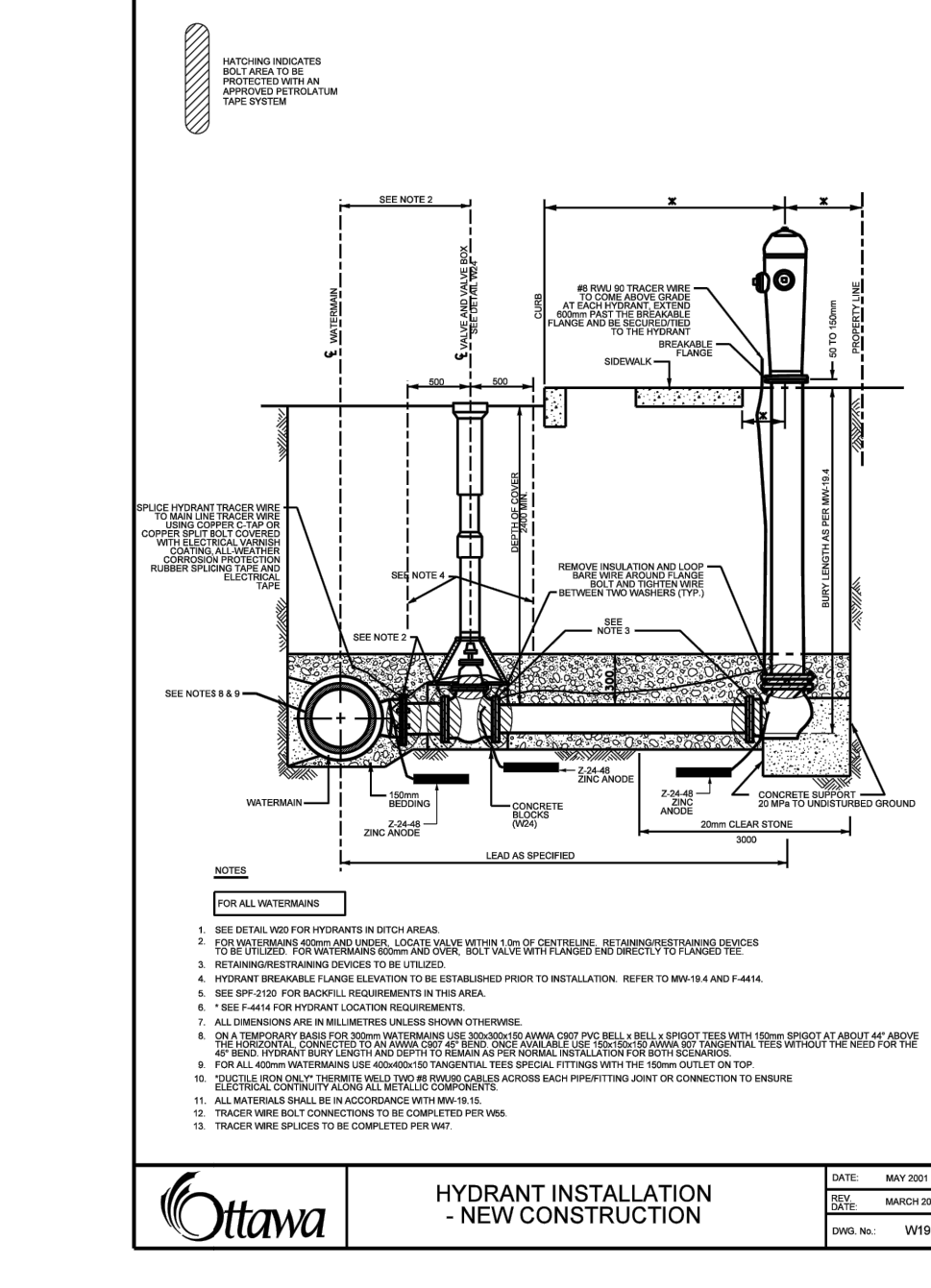
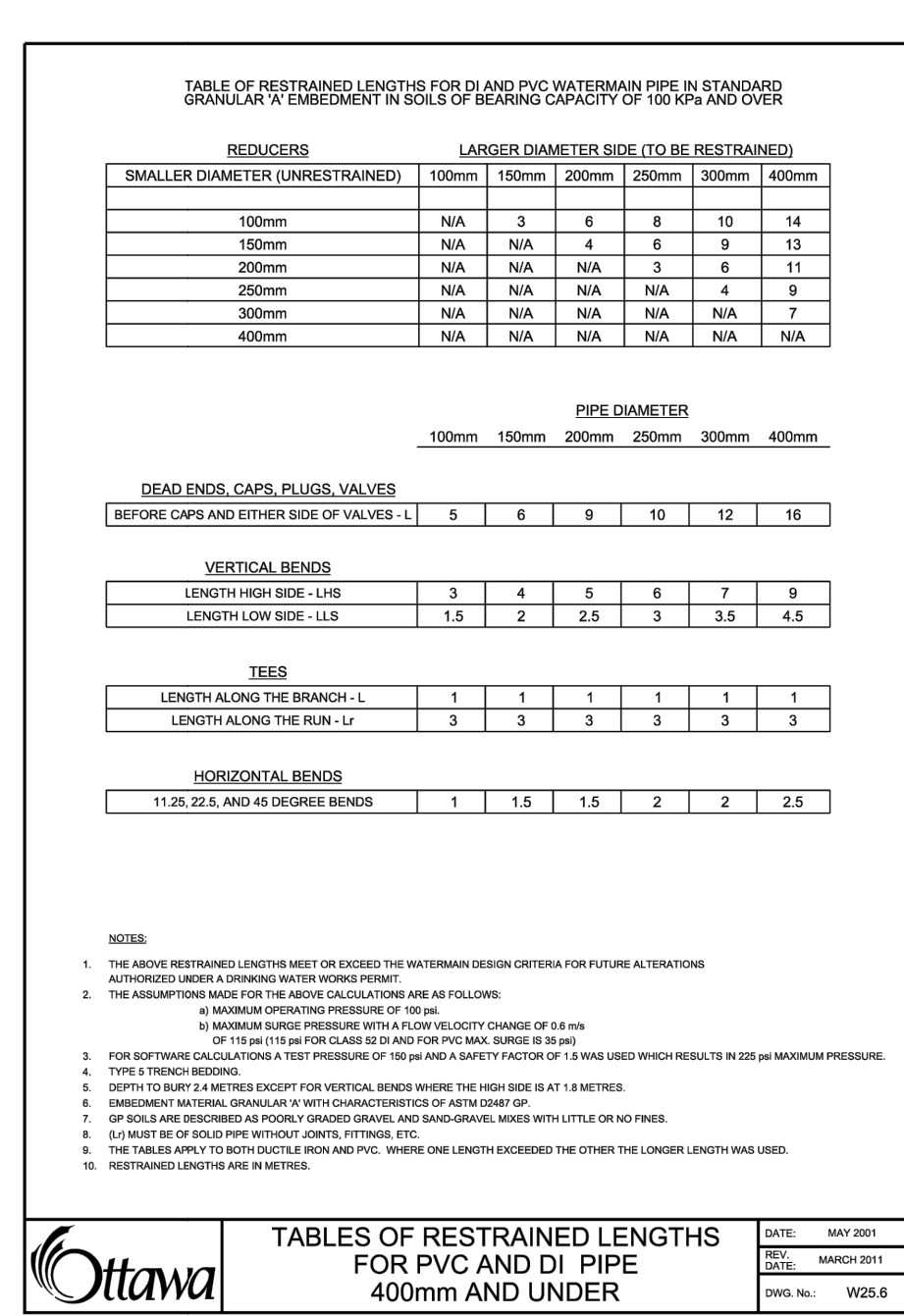
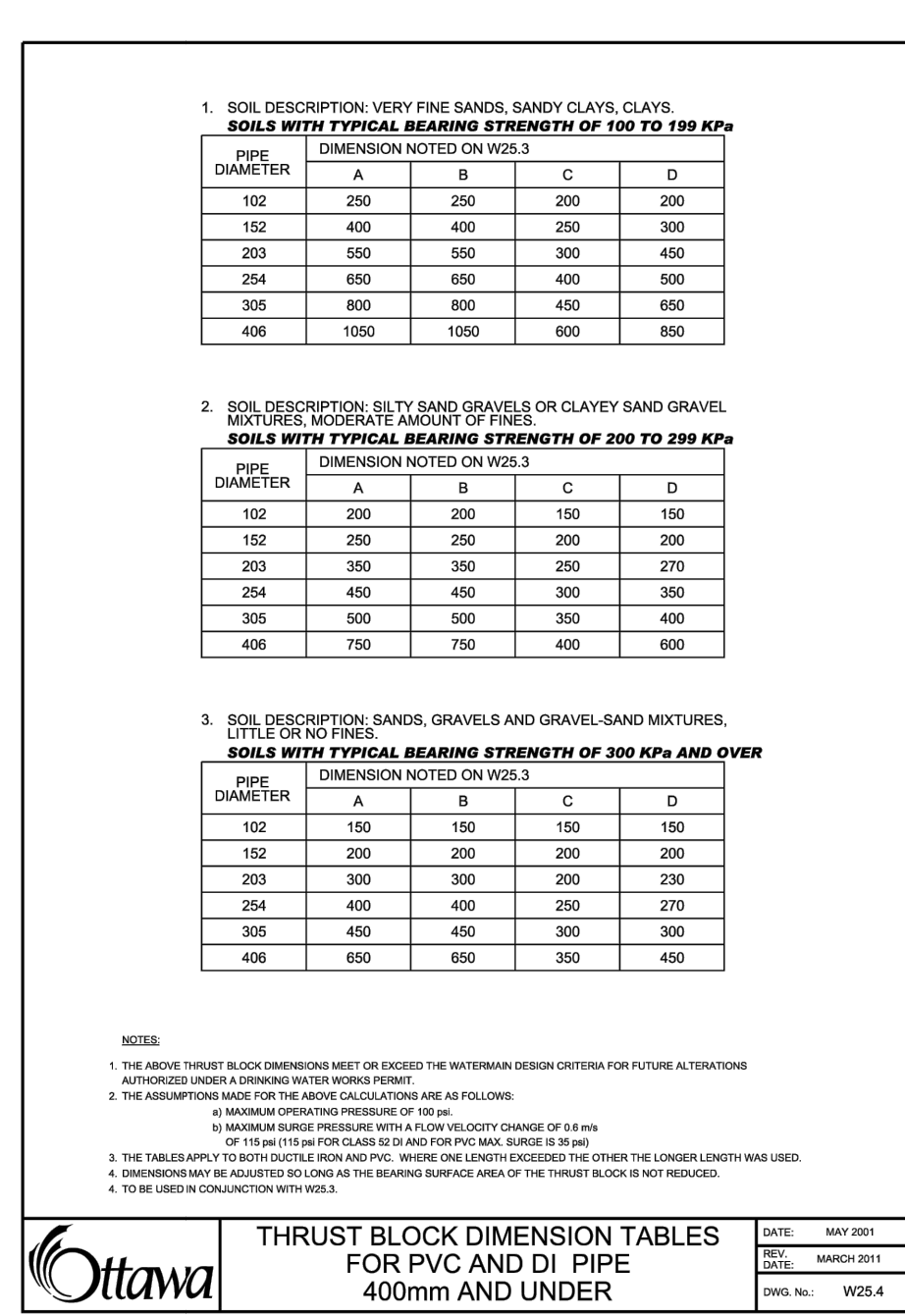
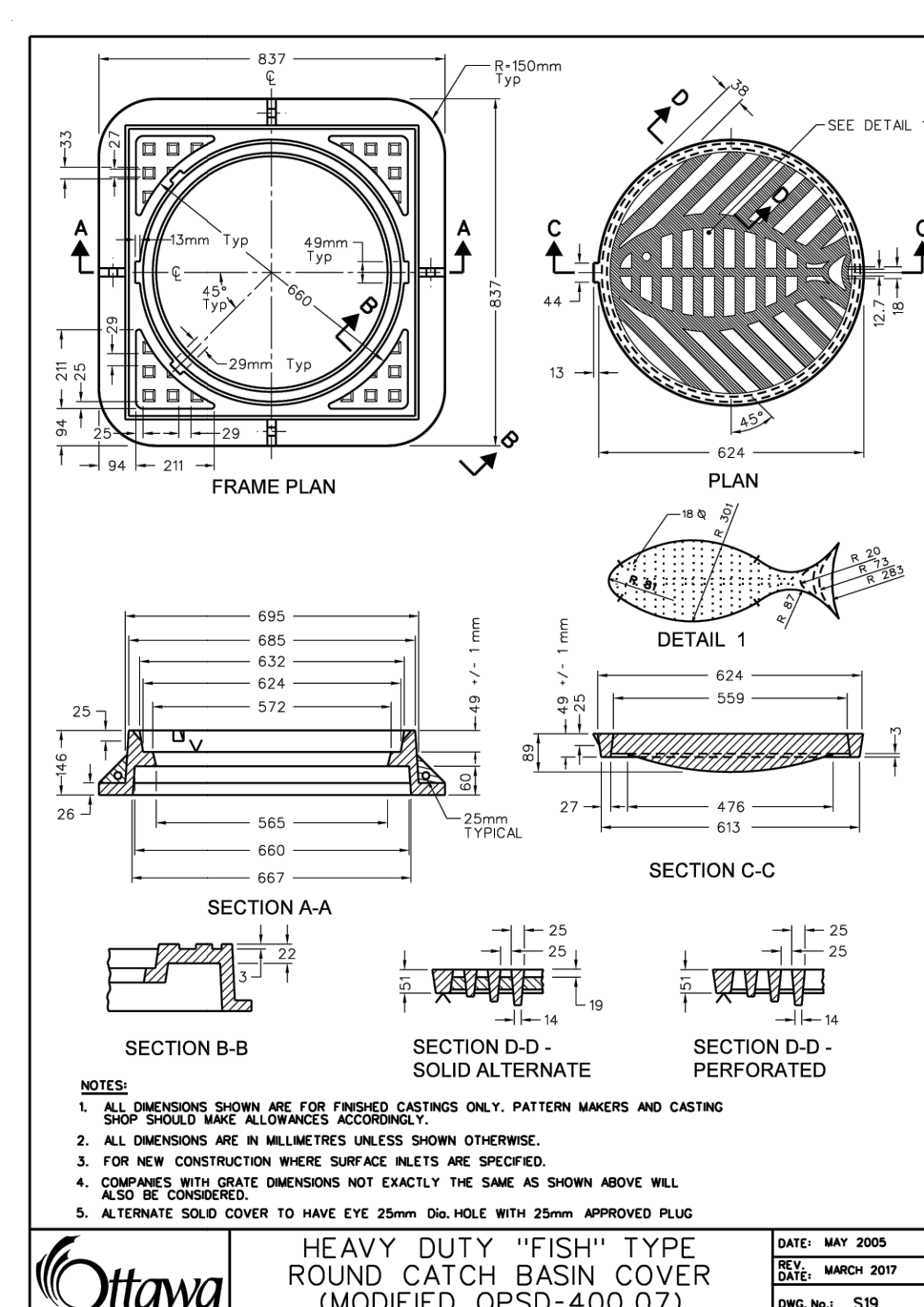
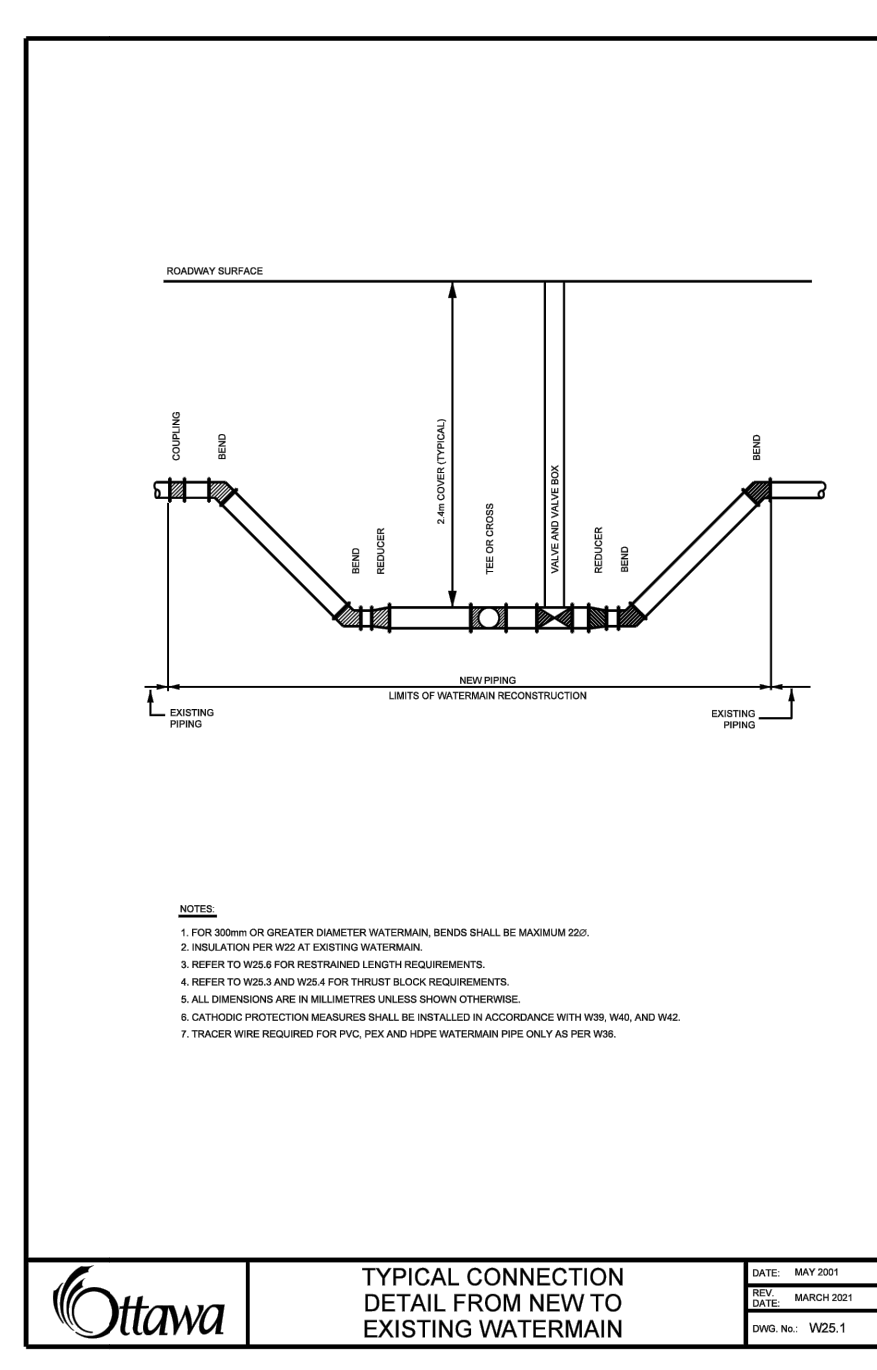
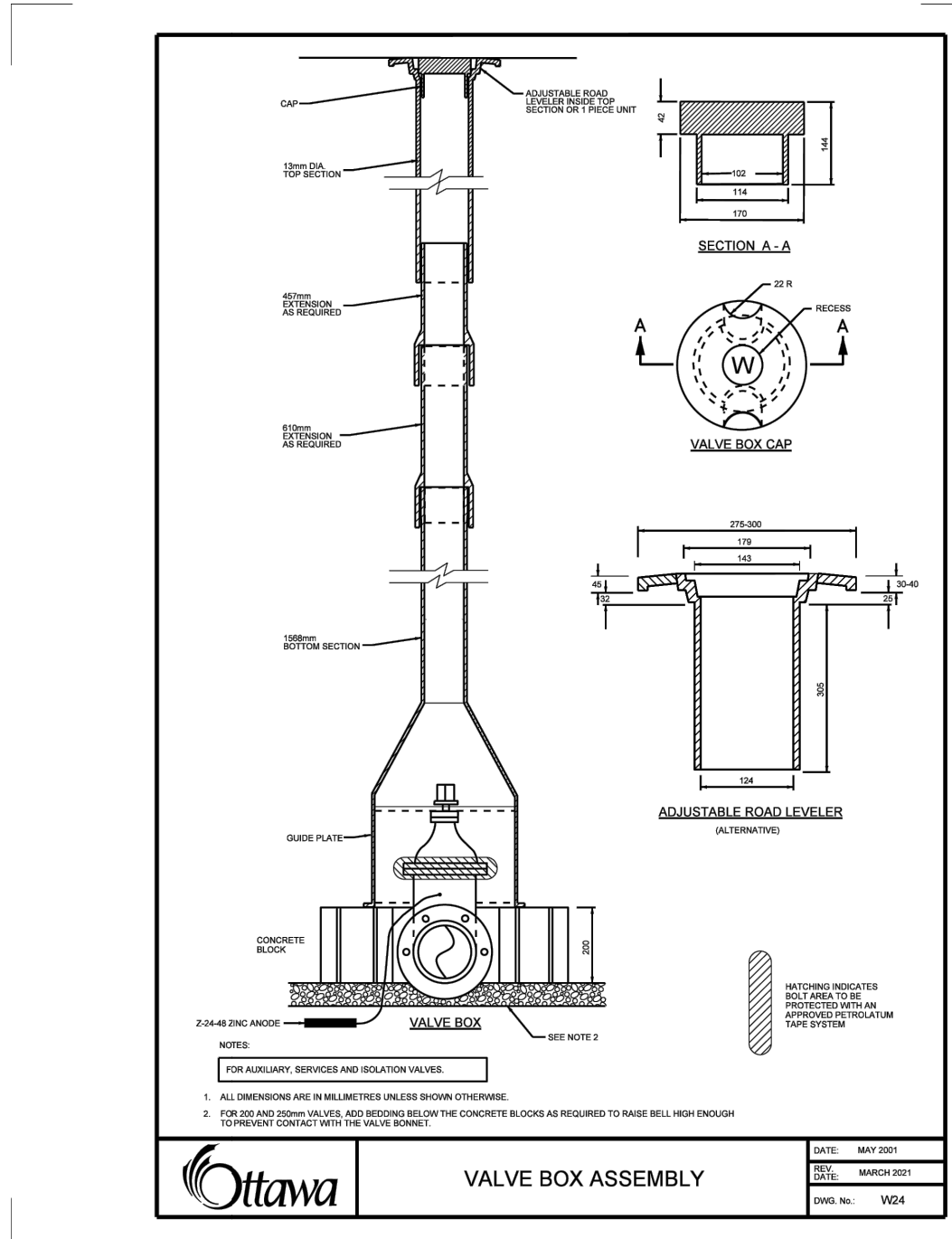
1. MATCH EXISTING GRADES AT ALL PROPERTY LINES AND/OR LIMITS OF CONSTRUCTION EXCEPT WHERE PROPOSED GRADES ARE NOTED.
2. MANAGEMENT OF EXCESS MATERIALS SHALL BE IN ACCORDANCE WITH OPS 180 ENVIRONMENTALLY IMPACTED SOILS, WHERE AND WHEN ENCOUNTERED, SHALL BE MANAGED ON SITE AS REQUIRED UNTIL SUCH THAT LABORATORY TESTING RESULTS HAVE CONFIRMED THE NATURE OF THE IMPACTS AND A SUITABLE DISPOSAL METHOD.
3. SURPLUS MATERIAL OF ALL TYPES NOT REQUIRED FOR BACKFILL, GRADING OR FILLING SHALL BE REMOVED FROM THE SITE AS DIRECTED BY THE CONSULTANT. THE COSTS OF ALL OFFSITE DISPOSAL SHALL BE BORNE BY THE CONTRACTOR. A SPECIFIC PROHIBITION IS MADE IN THE CONTRACT DOCUMENTS FOR PAYMENT FOR DISPOSAL OF A SPECIFIC SURPLUS GRADE.
4. A QUALIFIED PERSON SHALL BE RETAINED TO PREPARE AND SIGN OFF ON A SOIL MANAGEMENT PLAN (SMP). THE SMP SHALL INCLUDE THE MANAGEMENT OF EXCESS SOIL EXCAVATED FROM THE SITE INCLUDING THE MANAGEMENT OF THE SOIL FROM THE BASEMENT EXCAVATION IN ACCORDANCE WITH ONTARIO REGULATION 649/19 AND WITH MANAGEMENT OF EXCESS SOILS. A GUIDE FOR BEST MANAGEMENT PRACTICES A SMP SHALL BE IMPLEMENTED FOR THE SITE PRIOR TO ANY EXCAVATION WORKS BEING DONE. THE MAIN ELEMENTS OF THE SMP SHALL BE THE SOIL MANAGEMENT PLAN INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- 4.1. THE SMP SHALL MAXIMIZE THE REUSE OF ALL SOILS ON SITE AND INCORPORATION INTO LANDSCAPE FEATURES OR USE UNDER ROADSWAYS AND WALKWAYS IN ACCORDANCE WITH THE GEOTECHNICAL REQUIREMENTS PROVIDED IN THE BACKGROUND DOCUMENTS.
- 4.2. THE SMP SHALL PROVIDE A FRAMEWORK FOR THE HANDLING AND DISPOSAL OF EXCESS SOILS IN ACCORDANCE WITH ALL PERTINENT PROVINCIAL REGULATIONS AND REQUIREMENTS AND RELEVANT DOCUMENTS.
- 4.3. THE SMP SHALL PROVIDE SAFE WORKING PRACTICES AND PROCEDURES THAT SHOULD BE FOLLOWED DURING SURFACE WORK.
- 4.4. THE SMP SHALL INFORM WORKERS AND CONTRACTORS WHO MAY COME INTO CONTACT WITH IMPACTED SOILS AS TO ANY AND ALL THE POTENTIAL HEALTH AND SAFETY HAZARDS ASSOCIATED WITH ANY KNOWN CONTAMINATIONS WITHIN THE GROUNDWATER AND IMPACTED SOILS AND OTHER HAZARDS THAT MAY BE ENCOUNTERED.
5. MATERIALS TO BE REMOVED SHALL BE NEATLY SAW-CUT ALONG ITS LIMITS. IN ADVANCE OF THE REMOVAL, THE LIMITS OF REMOVAL SHALL BE AS NOTED ON THE PLANS UNLESS AN ORDER OR REDUCTION OF THE MATERIAL TO BE REMOVED IS APPROVED IN ADVANCE BY THE CONSULTANT. AS SUCH, THE COSTS OF ANY OVER-EXCAVATION NOT APPROVED IN ADVANCE SHALL BE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR. THE RESPONSIBILITY SHALL ALSO EXTEND TO RESTORATION OR REPLACEMENT OF DISTURBED FEATURES AND SURFACES DUE TO UNAUTHORIZED EXCAVATION.
6. ALL FILL PLACED ON SITE SHALL BE COMPACTED TO A MINIMUM 90% SPDM UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER OR IN THE DRAWINGS AND IN THE SPECIFICATIONS. ALL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING 300mm LIFT EXCEPT WHERE UNDER PAVING, AND WALKS WHERE LAYERS SHALL BE 150mm MAX.
7. MAXIMUM SLOPE IN GRASED AREAS TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER. MINIMUM SLOPE IN GRASED AREAS TO BE 1:1. GRASED SLOPES WITH A SLOPE LESS THAN 1:1 TO BE UNDERLAIN WITH A FRENCH DRAIN.
8. FINISH GRADE AT FOUNDATION WALLS TO BE MINIMUM 150mm BELOW THE TOP OF FOUNDATION WALL/BORING LINE UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
9. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE ON ALL SURFACES TO THE APPROPRIATE OUTLET STRUCTURE. AREAS OF PONDING CAUSED BY CONSTRUCTION ERROR WILL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CONSULTANT AT THE CONTRACTORS EXPENSE.
10. SHOULD THE NATURE OF THE SOIL AT THE DEPTH INDICATED PROVE UNSATISFACTORY AS DETERMINED BY THE GEOTECHNICAL ENGINEER, THE EXCAVATION SHALL BE CARRIED DOWN TO SUCH A DEEPER LEVEL AS THE GEOTECHNICAL ENGINEER MAY REQUIRE UNTIL A SATISFACTORY BEARING STRATUM IS REACHED.
11. THIS CONTRACTOR SHALL BE PAID THE COST OF SUCH EXTRA EXCAVATION AT THE UNIT PRICE ESTABLISHED IN THE CONTRACT.
12. ALL EXTRA DEPTHS OF EXCAVATION AND FILLING MUST BE BY THEIR AREA AND VOLUME DOCUMENTED BY AN INDEPENDENT INSPECTOR AND TESTING COMPANY OR THE CONSULTANT TO QUALIFY FOR PAYMENT.
13. QUANTITIES USED FOR PAYMENT OF EXCAVATION AND FILLING AT EXTRA DEPTHS TO BE DETERMINED BY THE CONSULTANT.

GENERAL SERVICING

1. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE REGULATIONS SET OUT BY THE MUNICIPALITY HAVING JURISDICTION.
2. RIGID PIPE BEDDING: CLASS A AS PER OPS 802.030 (EARTH EXCAVATION, TYPE 1 OR SOIL OPS 802.031 (EARTH EXCAVATION, TYPE 2 SOIL), OPS 802.032 (EARTH EXCAVATION, TYPE 3 SOIL).
3. FLEXIBLE PIPE BEDDING: AS PER OPS 802.010 (EARTH).
4. GRANULAR FILL: SHALL BE DEPOSITED IN THE TRENCH, FOR THE FULL WIDTH OF THE TRENCH, COMPACTED TO 90% STANDARD PROCTOR MAXIMUM DRY DENSITY IN LAYERS NOT OVER 300mm DEPTH, EXCEPT WHERE UNDER PAVING, AND WALKS WHERE LAYERS SHALL BE 150mm MAX.
5. SITE SERVICING CONTRACTOR TO TERMINATE ALL SERVICES 1.0m FROM FOUNDATION WALL AND COORDINATE WITH THE GENERAL OR MECHANICAL CONTRACTOR AS REQUIRED TO FACILITATE THE CONNECTION.
6. WHEN BELL AND SHOOT PIPE IS LAID, THE BELL END OF THE PIPE SHALL BE LAID UPSTREAM.
7. PIPE SHALL BE KEPT CLEAN AND DRY AS WORK PROGRESSES. THE TRENCH SHALL BE KEPT DRY.
8. A REMOVABLE WATERIGHT BULKHEAD SHALL BE INSTALLED DAILY AT THE OPEN END OF THE LAST PIPE LAID.
9. PIPE SHALL NOT BE USED UNTIL THE PRECEDING PIPE JOINT HAS BEEN COMPLETED AND THE PIPE IS BEDDED AND SECURED IN PLACE.
10. ALL PIPE ENDS SHALL BE THOROUGHLY CLEANED PRIOR TO THE INSTALLATION OF GASKETS. ALL GASKETS TO BE LUBRICATED PRIOR TO BEING INSTALLED OR AS RECOMMENDED BY THE PIPE MANUFACTURER.
11. A TEMPORARY LOCATION MARKER 500mm SHALL BE PLACED AT THE END OF ALL CAPTED SERVICE CONNECTIONS. THE MARKER SHALL BE PLACED 300mm ABOVE THE PLUGGED END OF THE SERVICE PIPE, OUT AT LEAST 500mm ABOVE THE FINISHED GRADE, AND MARKED WITH BRIGHT PAINT.
12. ALL MANHOLES, BASINS, CHAMBERS ETC. TO BE INSTALLED LEVEL AND PLUMBS TO THE SATISFACTION OF THE CONSULTANT.

STORM AND SANITARY SEWER

1. ALL SEWER MATERIALS TO COMPLY WITH CITY OF OTTAWA MS-22.15 REQUIREMENTS.
2. THE SITE SERVICING CONTRACTOR SHALL PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. SPECIFICALLY, THE LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPS 802.015.15 AND 407.22.20 AND IN ACCORDANCE WITH THE PLUMBING CODE. THE FIELD TESTS SHALL BE PERFORMED BY THE DESIGN ENGINEER OR A CERTIFIED PROFESSIONAL ENGINEER. THE TEST SHALL BE CERTIFIED COPY OF THE TEST RESULTS TO THE CITY OF OTTAWA. CONTRACTOR TO PROVIDE CONSULTANT MINIMUM 1 WEEK NOTICE OF SCHEDULING PRIOR TO COMPLETING TESTING ON SITE.
3. POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS: SMOOTH PROFILE, TO OPS 1841 AND CSA B182.2, WITH SEPARATE GASKETS AND INTEGRAL BELL SYSTEM, IN 8" OR NOMINAL LENGTHS AS FOLLOWS:
- 3.1. 200mm OD AND LARGER: SORCS PVC WITH 300x20 STIFFNESS.
- 3.2. SUBURBAN DRAINAGE PIPE AND FITTINGS: TO OPS 400, REFORCED RIB PIPE TO OPS 1841 OR RIB PIPE TO OPS 1841. RIB, TO CANADA B182.1, COMPLETE WITH KNITTED SOCK GEOTEXTILE AS REQUIRED (TERRAFX 270R OR EQUIVALENT).
- 3.3. MANHOLES AND CATCHBASIN MANHOLES TO BE PRECAST 1200mm DIAMETER WITH A MINIMUM STIFFNESS OF 3000mm SPACING AS PER OPS 103.10.1 UNLESS SPECIFIED OTHERWISE.
- 3.4. CATCHBASINS TO BE 800mm SQUARE PRECAST AS PER OPS 103.10.10. DOUBLE CATCHBASINS TO BE 800x1450mm SQUARE AS PER OPS 103.10.10.
- 3.5. CATCHBASIN MANHOLES, CATCHBASINS, AND DOUBLE CATCHBASINS TO HAVE A MINIMUM 300mm DEEP SUMP.
- 3.6. STORM MANHOLES TO HAVE MINIMUM 300mm DEEP SUMP.
- 3.7. MANHOLE AND CATCHBASIN FRAMES, GRATES, CASTINGS, LIDS TO BE AS PER OPS 1850, OPSS 401.010 (A CLOSED).
- 3.8. CAST IRON FRAMES AND COVERS OR GRATES: STORM SEWERS: TO OPS 1850 AND OPS 401.010 (A OPEN).
- 3.9. CAST IRON FRAMES AND COVERS OR GRATES: SANITARY SEWERS: TO OPS 1850, OPSS 401.010 (A CLOSED).
4. ALL SANITARY MANHOLES LOCATED IN STORM WATER PONDING AREAS TO HAVE WATERPROOF FRAME AND COVERS AS PER OPS 401.020.
5. STORM SEWERS AND SERVICES TO HAVE MINIMUM 2.0m COVER TO TOP OF PIPE WHERE COVER TO TOP OF PIPE IS DEFICIENT. CONTRACTOR SHALL INSTALL SHALLOW BURIED SEWER PIPE IN ACCORDANCE WITH APPLICABLE SEWER PIPE INSULATION DETAIL INDICATED IN DRAWING DETAILS.
6. SANITARY SEWERS AND SERVICES TO HAVE A MINIMUM 2.0m COVER TO TOP OF PIPE. CONTRACTOR SHALL PROVIDE A MINIMUM 2.0m COVER TO TOP OF PIPE. CONTRACTOR SHALL PROVIDE A MINIMUM 2.0m COVER TO TOP OF PIPE. CONTRACTOR SHALL PROVIDE A MINIMUM 2.0m COVER TO TOP OF PIPE.
7. ALL SANITARY MANHOLES TO BE PRE-ENGINEERED OR BLENCHED WITH 300mm CONCRETE AS PER OPS 103.10.10. BENCHING SHALL EXTEND TO THE SPRING LINE OF LARGEST PIPE IN THE MANHOLE AND SHALL HAVE A SLOPE OF 1:8.
8. CONTRACTOR TO SUPPLY AND PAY FOR CCTV INSPECTION OF ALL SEWER LINES AND STRUCTURES.
9. ACCEPTANCE OF SEWER LINES AND STRUCTURES SHALL BE MADE AFTER THE CONSULTANT HAS REVIEWED THE CCTV DOCUMENTATION AND VIDEOS, AND EXPRESSED IN WRITING THAT THE SEWER LINES AND STRUCTURES ARE ACCEPTABLE.
10. IF CCTV INSPECTIONS SHOW ADDITIONAL CLEANING IS REQUIRED, CLEAN AND RE-INSPECT THE SEWER LINES, ACCEPTED BY THE CONSULTANT.
11. A MINIMUM OF ONE (1) AND MAXIMUM OF THREE (3) ADJUSTMENT UNITS SHALL BE INSTALLED ON EACH STRUCTURE TO A MINIMUM HEIGHT OF 75mm AND MAXIMUM OF 300mm. THE FIRST ADJUSTMENT UNIT SHALL BE LAID IN A FULL BED OF MORTAR AND ALIGNED WITH THE OPENING IN THE STRUCTURE. SUCCESSIVE ADJUSTMENT UNITS SHALL BE LAID PLUMB TO THE FIRST ADJUSTMENT UNIT AND SEALED ACCORDING TO MANUFACTURERS RECOMMENDATIONS. FRAMES WITH GRATES OR COVERS SHALL BE SET IN A FULL BED OF MORTAR ON THE ADJUTMENT UNITS AND SUPPORTED BY U-SHIMS, ROCKS, STONES AND DERISIL WILL NOT BE PERMITTED FOR USE AS SHIMS.
12. ALL PIPES TO BE INSTALLED PLUMB WITH THE INSIDE WALLS OF THE STRUCTURE AND PARALLEL TO A SMOOTH FINISH.
13. ALL SANITARY MANHOLES TO BE PRE-ENGINEERED OR BLENCHED WITH 300mm CONCRETE AS PER OPS 103.10.10. BENCHING SHALL EXTEND TO THE SPRING LINE OF LARGEST PIPE IN THE MANHOLE AND SHALL HAVE A SLOPE OF 1:8.
14. CONTRACTOR TO SUPPLY AND PAY FOR CCTV INSPECTION OF ALL SEWER LINES AND STRUCTURES.
15. REMOVALS: ALL REMOVALS TO BE IN ACCORDANCE WITH OPS 800.510.
16. SANITARY MATERIAL: TO BE PROVIDED AS PER OPS 1150 AND INSTALLED AS PER OPS 1150.
17. WHERE NEW ASPHALT ADJUTS EXISTING ASPHALT, EXISTING ASPHALT SHALL BE SAW CUT AND HAVE TACK COAT APPLIED AS PER OPS 306 TO A CLEAN DRY FACE. EXISTING ASPHALT SHALL BE REPAIRED BY THE CONSULTANT.
18. A MINIMUM OF ONE (1) AND MAXIMUM OF THREE (3) ADJUSTMENT UNITS SHALL BE INSTALLED ON EACH STRUCTURE TO A MINIMUM HEIGHT OF 75mm AND MAXIMUM OF 300mm. THE FIRST ADJUSTMENT UNIT SHALL BE LAID IN A FULL BED OF MORTAR AND ALIGNED WITH THE OPENING IN THE STRUCTURE. SUCCESSIVE ADJUSTMENT UNITS SHALL BE LAID PLUMB TO THE FIRST ADJUSTMENT UNIT AND SEALED ACCORDING TO MANUFACTURERS RECOMMENDATIONS. FRAMES WITH GRATES OR COVERS SHALL BE SET IN A FULL BED OF MORTAR ON THE ADJUTMENT UNITS AND SUPPORTED BY U-SHIMS, ROCKS, STONES AND DERISIL WILL NOT BE PERMITTED FOR USE AS SHIMS.
19. CONTRACTOR TO SUPPLY AND PAY FOR CCTV INSPECTION OF ALL SEWER LINES AND STRUCTURES.
20. CONCRETE SIDEWALK WITH THE RIGHT OF WAY SHALL BE AS PER OPS 310.010 AND 310.030.
21. CONCRETE BARRIER CURE TO BE AS PER OPS 101.110 - 300mm x 28 DAYS CONCRETE TO OPS 303.741 OR PER ENTRAINMENT, 150mm MAX COURSE AGGREGATE, 600mm MAX SLUMP.
22. CONCRETE SIDEWALK TO BE AS PER DETAIL ON THIS SHEET, 300mm x 28 DAYS CONCRETE TO OPS 303.741 OR PER ENTRAINMENT, 150mm MAX COURSE AGGREGATE, 700mm MAX SLUMP.
23. UNSHRIKABLE FILL, TO OPS 130.19, 28-DAY COMPRESSIVE STRENGTH: 0.4 - 0.7 MPa. MAXIMUM 50mm COURSE AGGREGATE SIZE.
24. SUBMIT ONE COPY OF ALL PROPOSED CONCRETE MIX DESIGNS DIRECTLY TO THE CONSULTANT A MINIMUM OF TWO WEEKS IN ADVANCE OF SCHEDULED CONCRETE POURING.
25. ALL GRANULAR FILL, SUBGRADE, SURGRADE AND BACKFILL TO BE PROVIDED AS PER OPS 1010 AND INSTALLED AS PER OPS 1010.
26. COARSE GRANULAR FILL, SUBGRADE, SURGRADE AND BACKFILL TO BE PROVIDED AS PER OPS 1010 AND INSTALLED AS PER OPS 1010.
27. STANDARD PROCTOR MAXIMUM DRY DENSITY, UNLESS SPECIFIED OTHERWISE, IN LIFTS NOT EXCEEDING 300mm IN COMPACTED THICKNESS. MOISTURE CONTENT WITHIN PLUS OR MINUS 2% OF THE REQUIREMENTS OF ASTM D698.
28. SUBMIT ONE COPY OF ALL PROPOSED CONCRETE MIX DESIGNS DIRECTLY TO THE CONSULTANT A MINIMUM OF TWO WEEKS IN ADVANCE OF SCHEDULED CONCRETE POURING.
29. ALL GRANULAR FILL, SUBGRADE, SURGRADE AND BACKFILL TO BE PROVIDED AS PER OPS 1010 AND INSTALLED AS PER OPS 1010.
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17	01/04/25	ISSUED FOR SITE RE-SUBMISSION	
18	25/04/24	ISSUED FOR 100% CD SUBMISSION R1	
19	25/02/24	ISSUED FOR 100% CD RE-SUBMISSION	
20	14/05/2017	ISSUED FOR 100% CD SUBMISSION	
21	24/12/09	ISSUED FOR SITE RE-SUBMISSION	
22	24/11/27	ISSUED FOR 100% CD SUBMISSION	
23	24/08/23	ISSUED FOR 100% CD SUBMISSION AT TUNNEL	
24	24/08/23	ISSUED FOR BUILDING PERM	
25	24/08/23	ISSUED FOR SITE PLAN CONTROL	
26	24/08/07	ISSUED FOR 100% CD SUBMISSION	
27	24/08/07	ISSUED FOR 100% CD SUBMISSION R2	
28	24/05/10	ISSUED FOR FOUNDATION PERM	
29	24/04/19	ISSUED FOR 100% CD SUBMISSION	
30	23/12/20	ISSUED FOR 100% CD SUBMISSION (TUNNEL)	
31	23/12/20	ISSUED FOR BUILDING PERM (TUNNEL)	
32	23/12/15	RE-ISSUED FOR 100% CD SUBMISSION	
33	20/12/15	ISSUED FOR 100% CD SUBMISSION	
34		REVISED	
35		REVISED	
36		REVISED	

100% PROFESSIONAL STAMP

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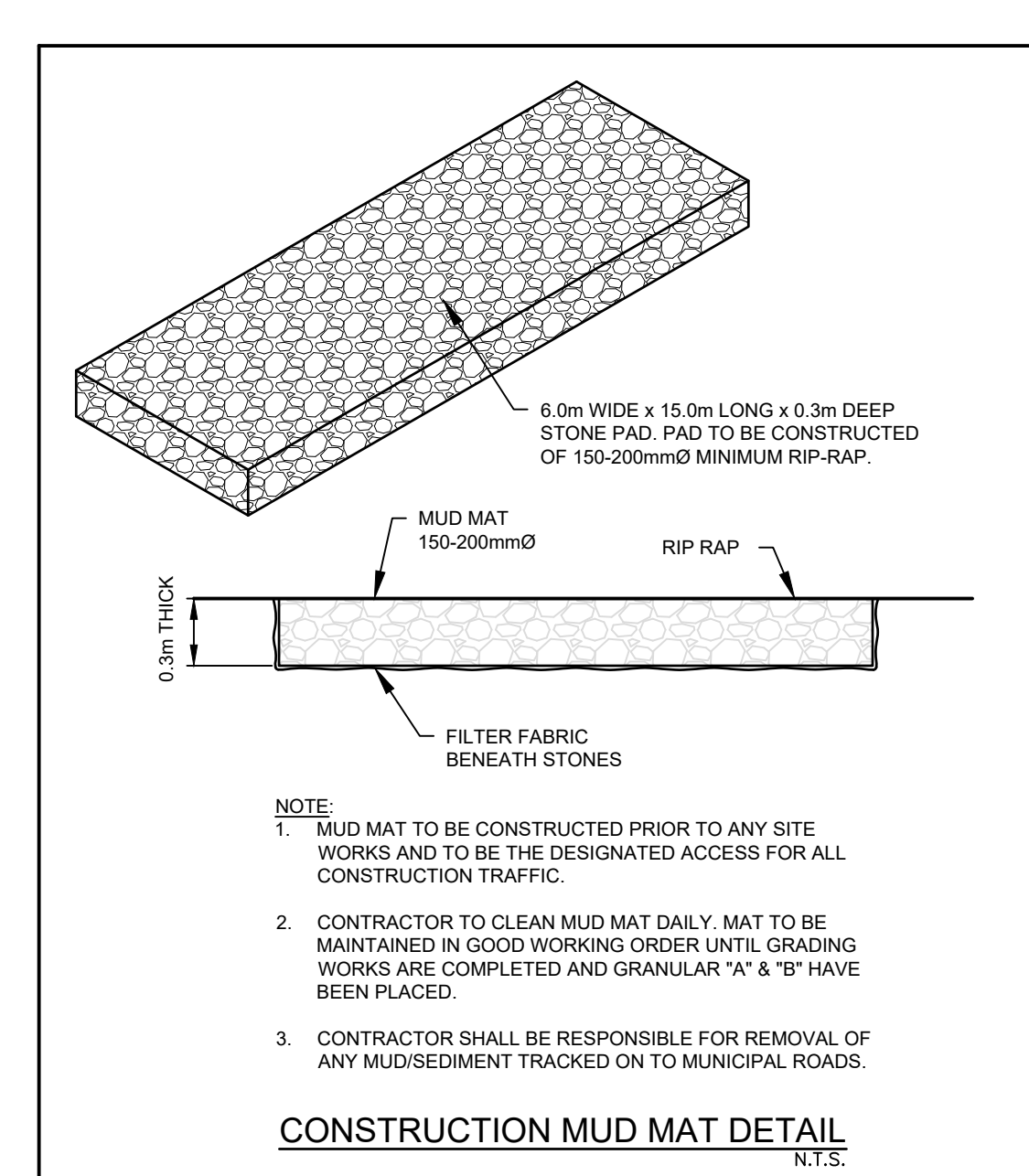
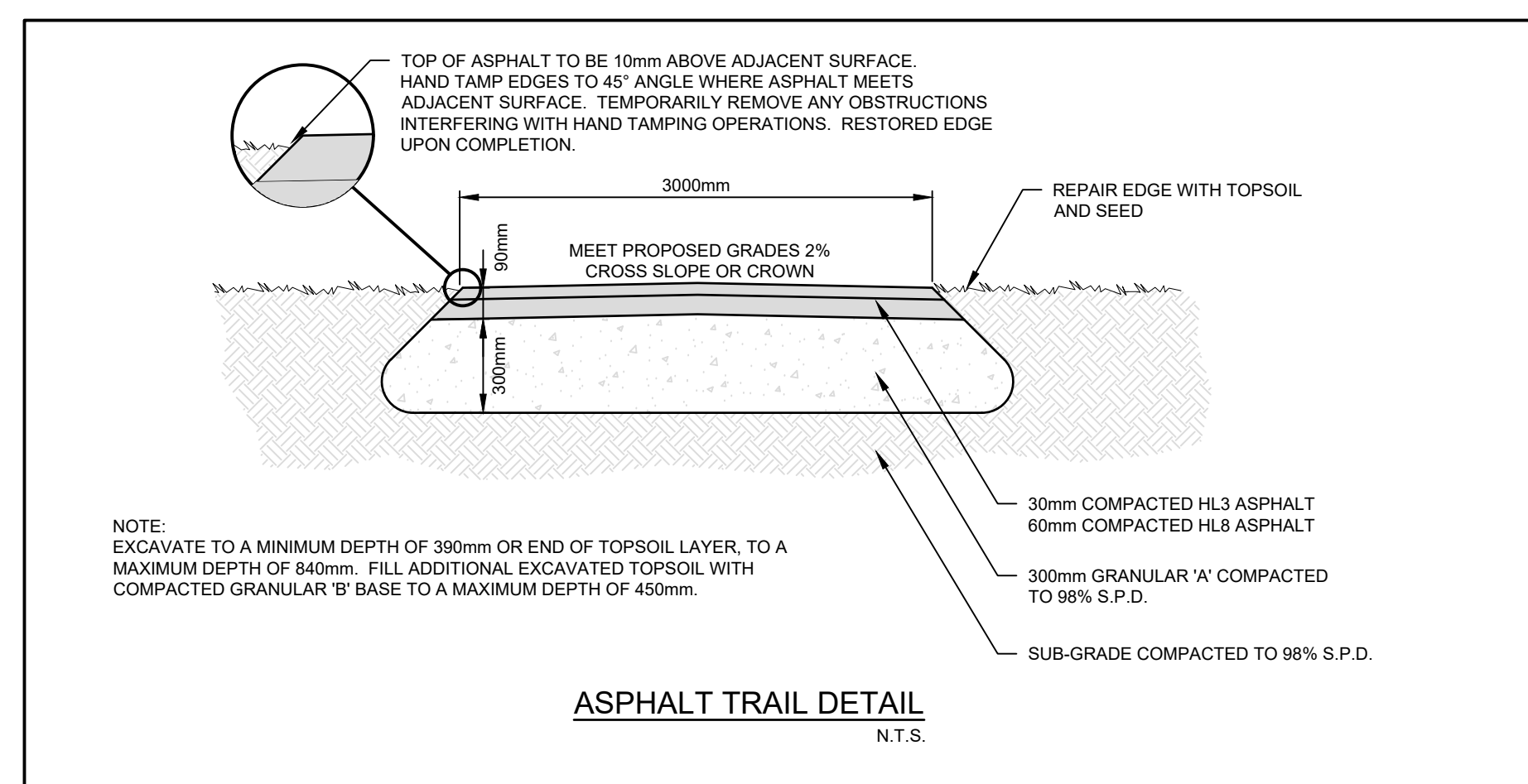
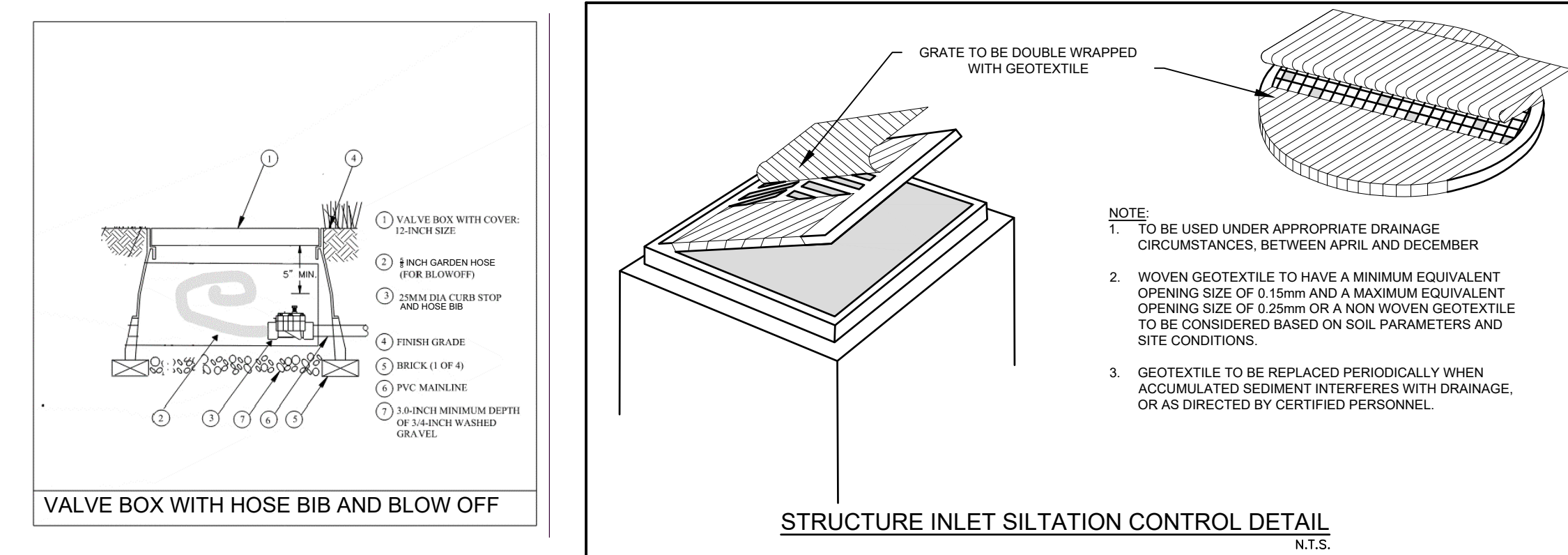
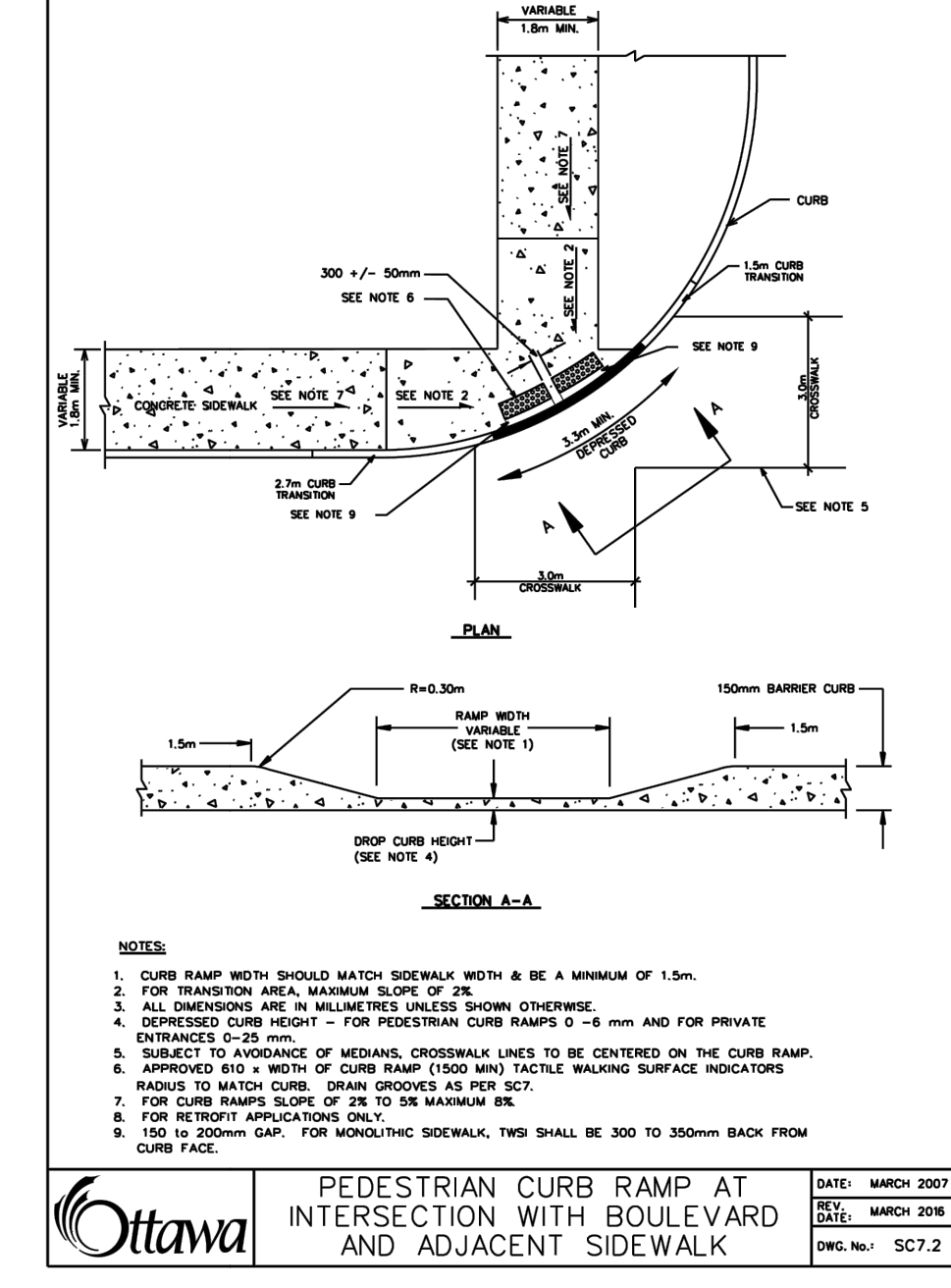
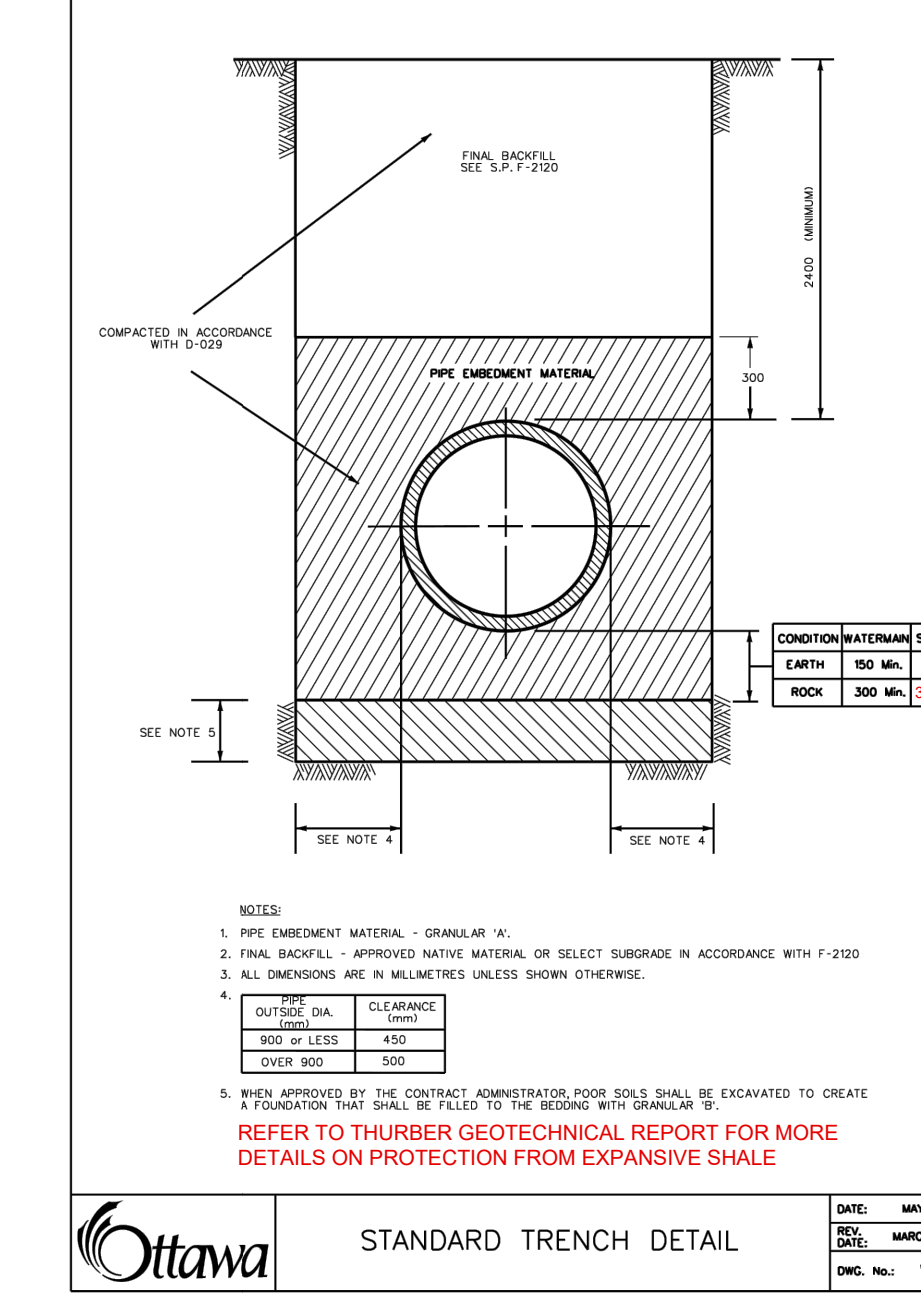
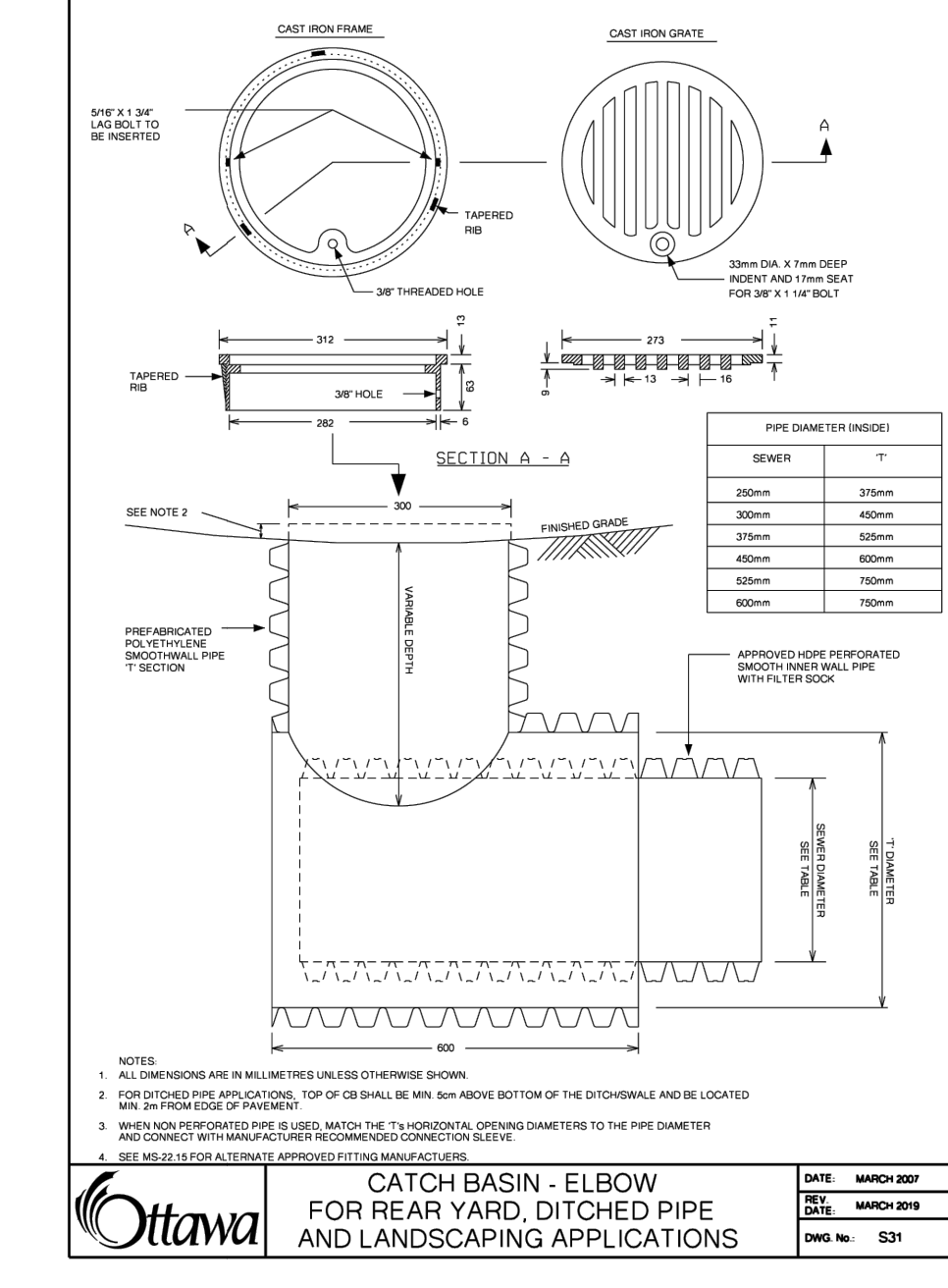
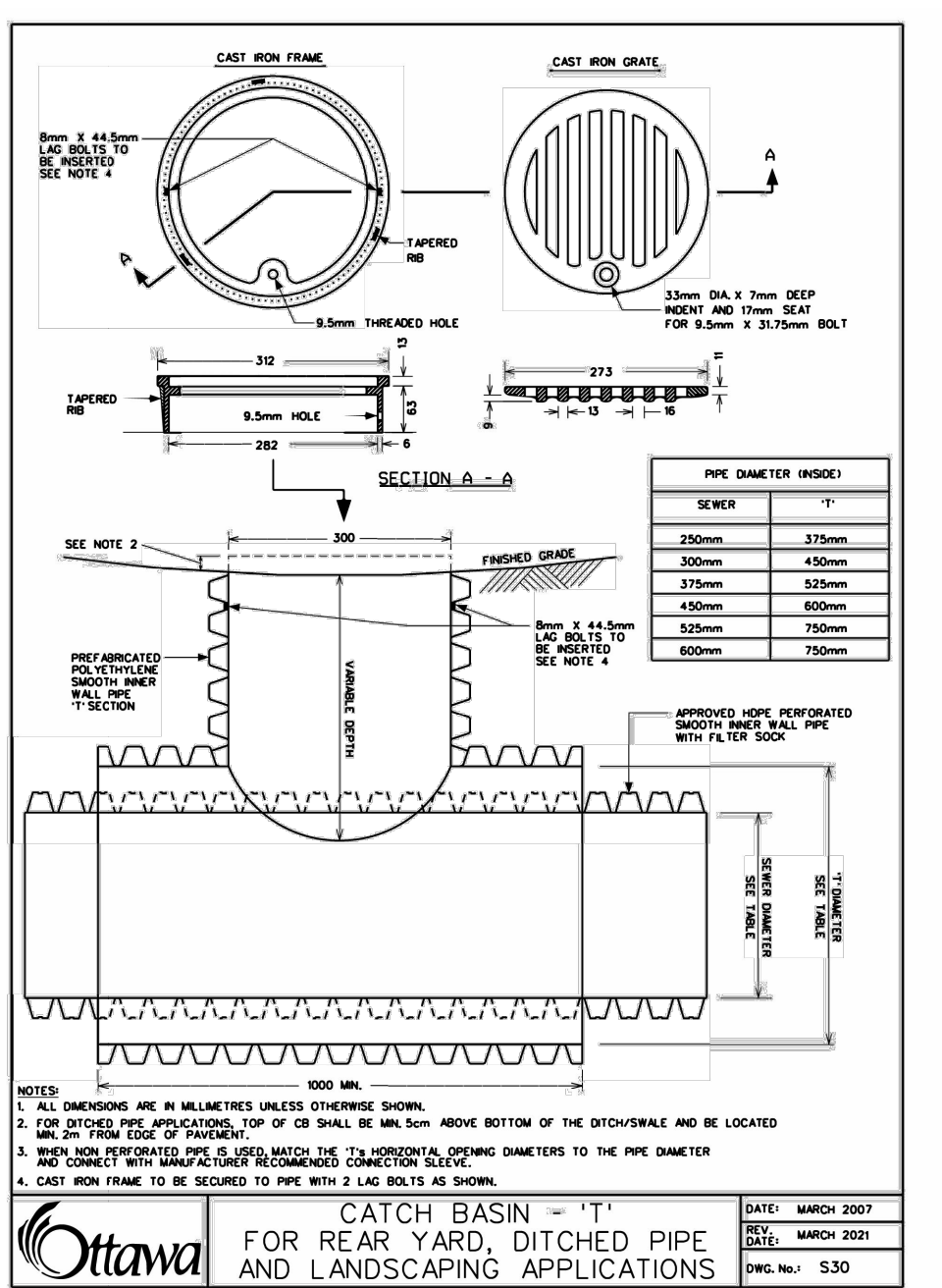
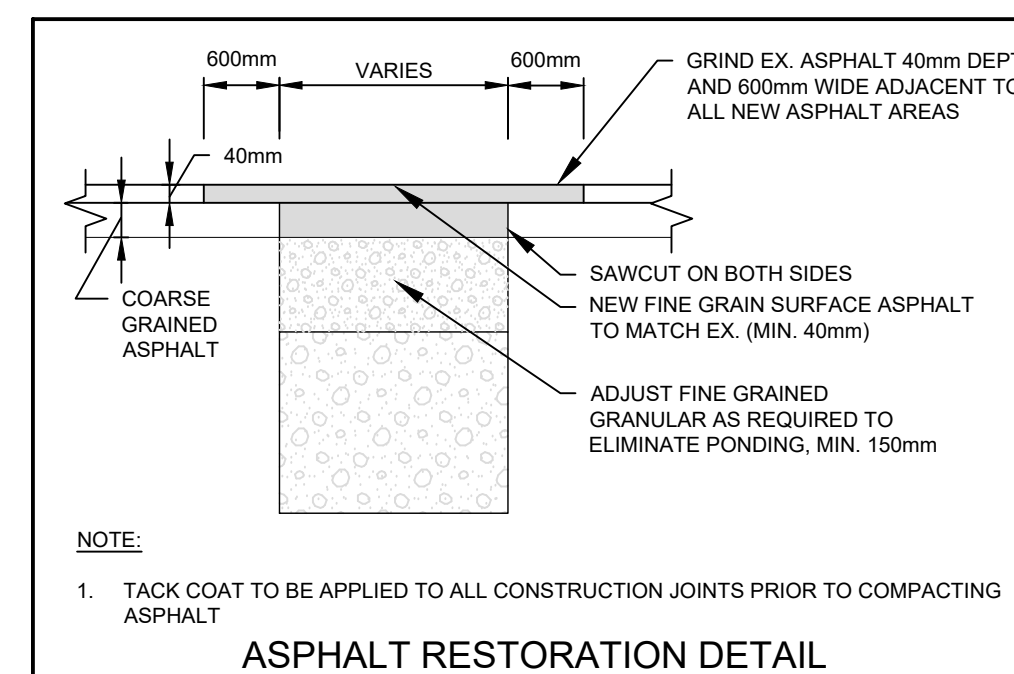
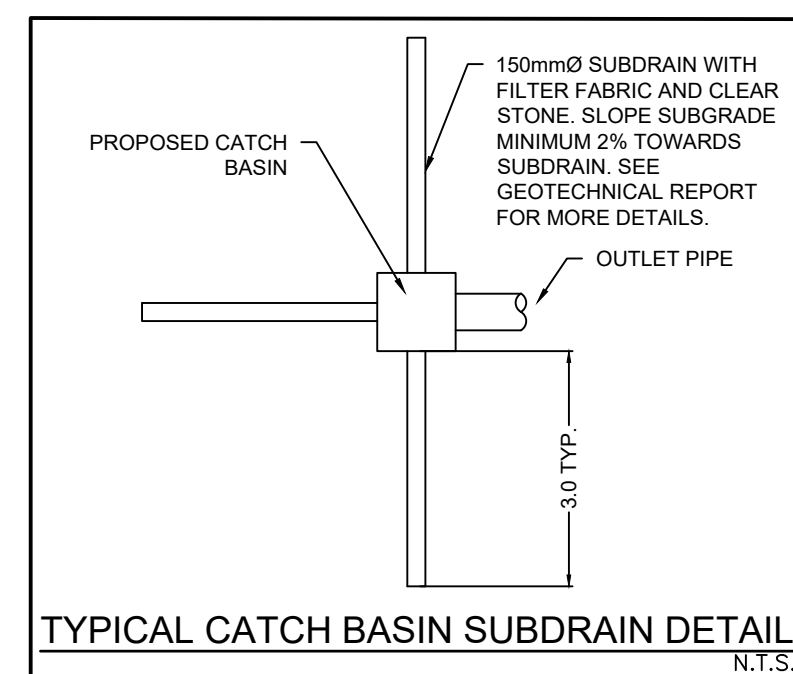
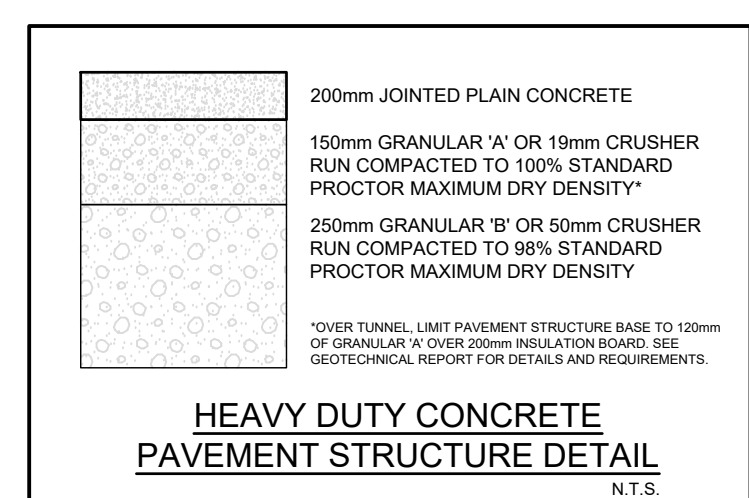
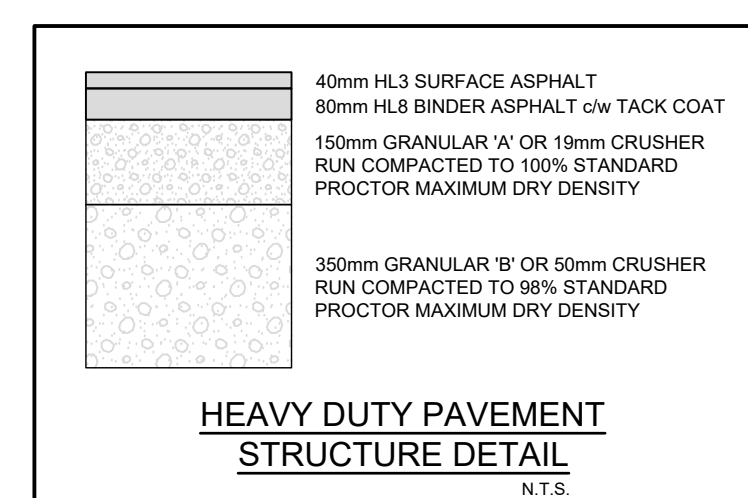
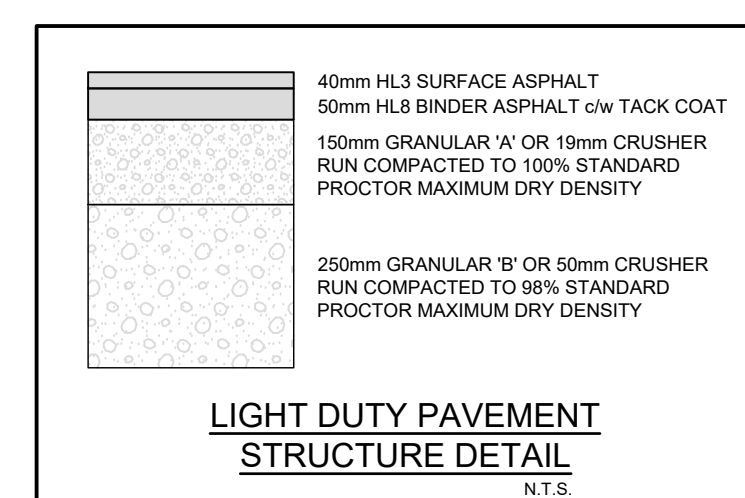
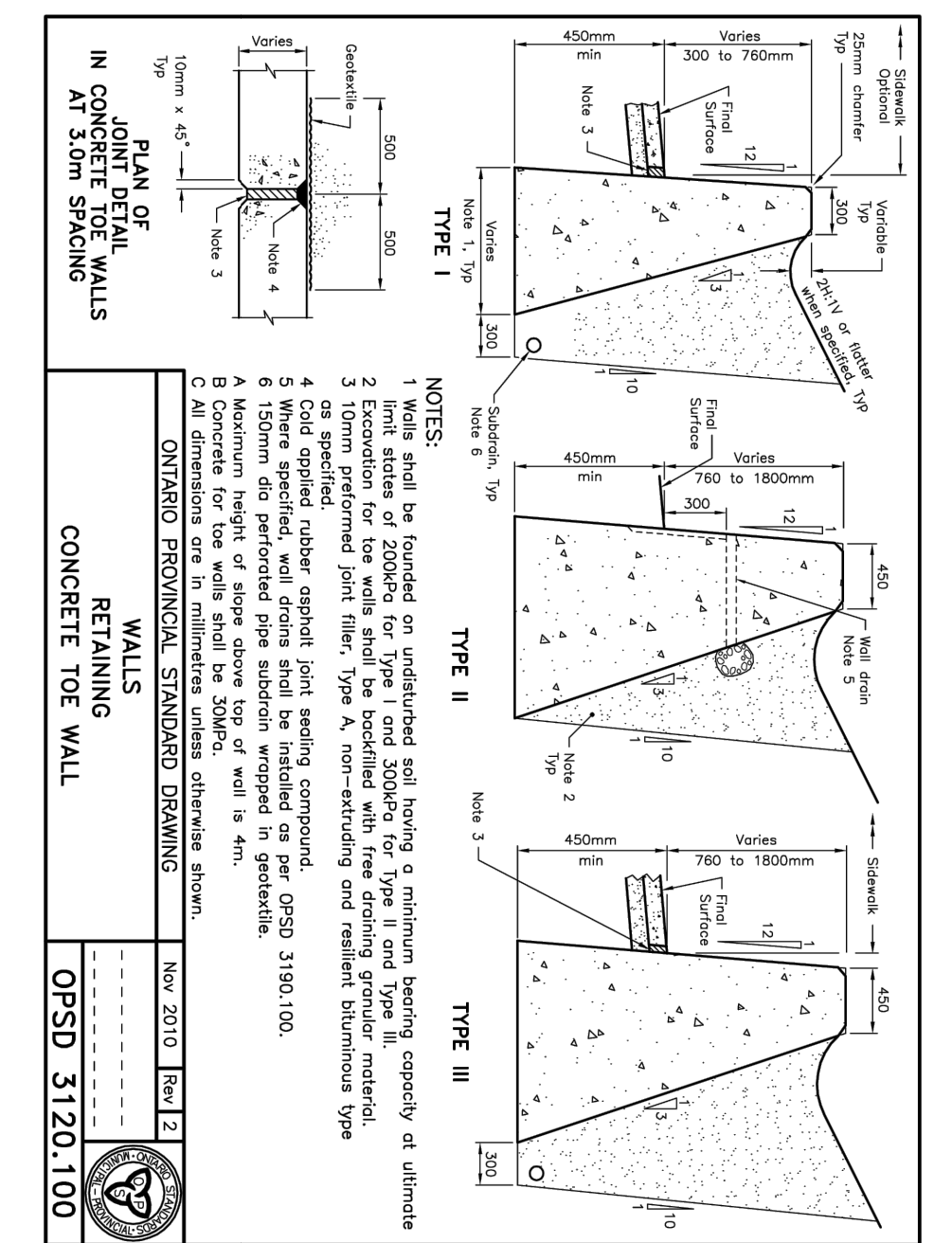
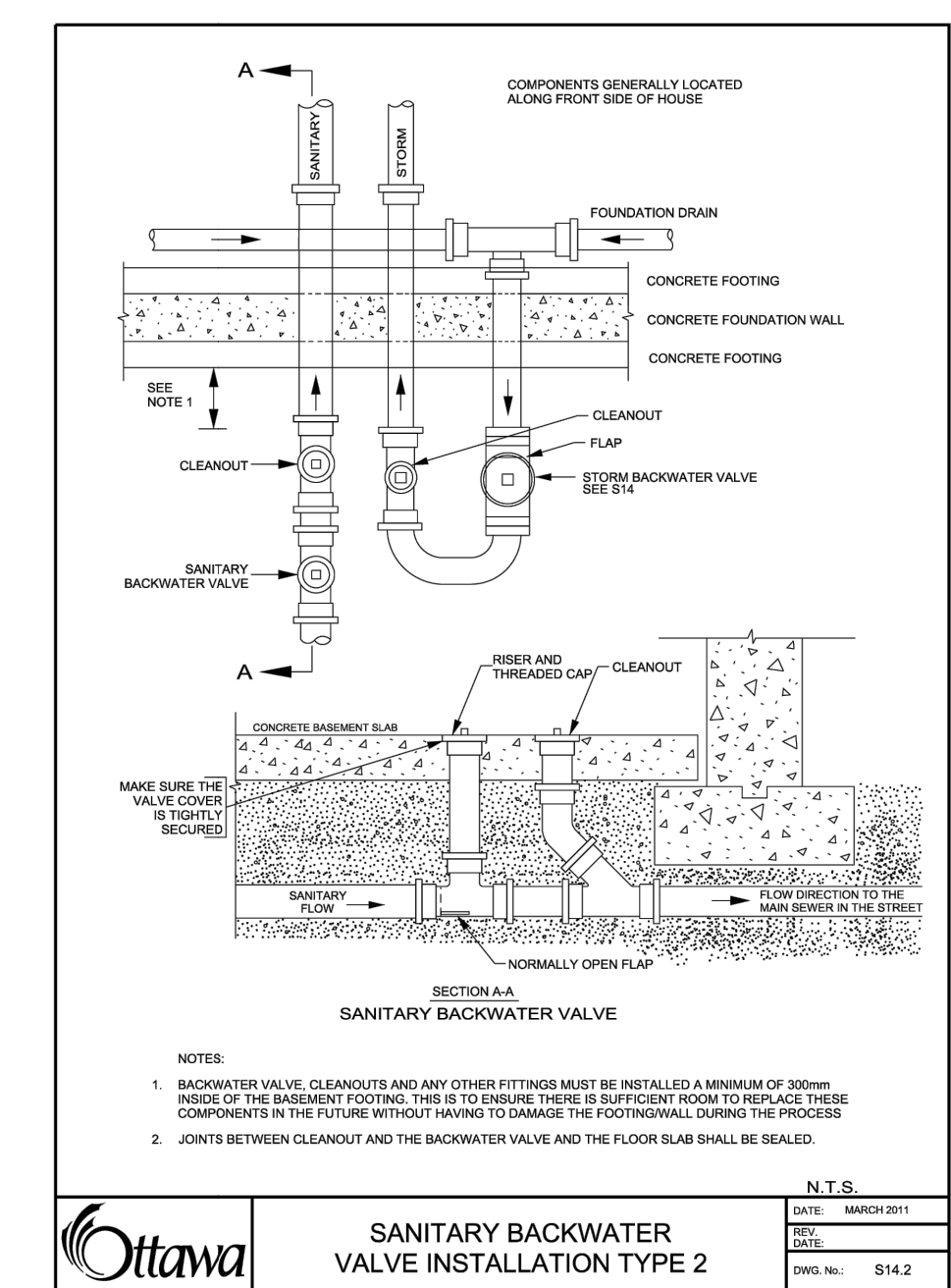
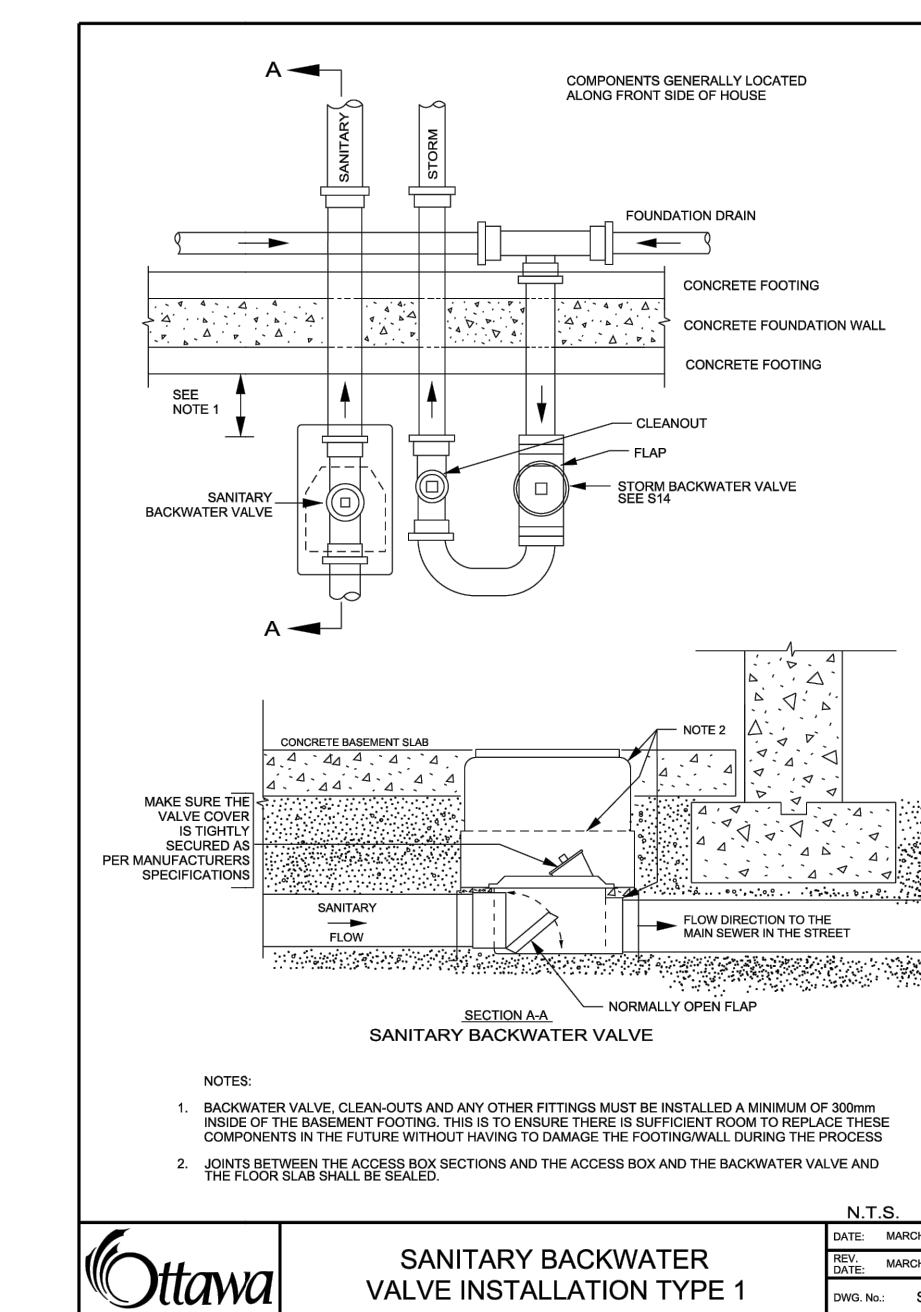
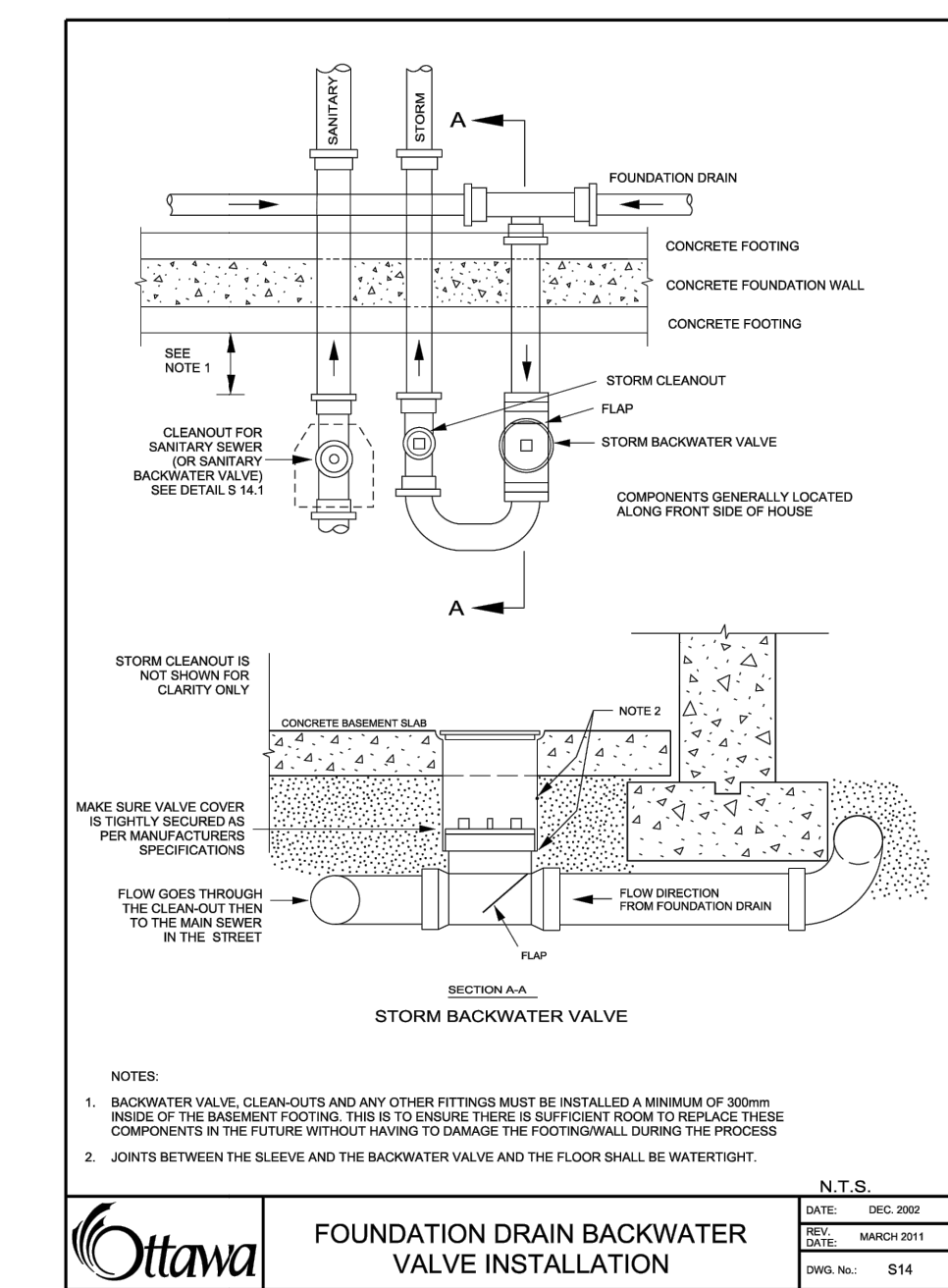
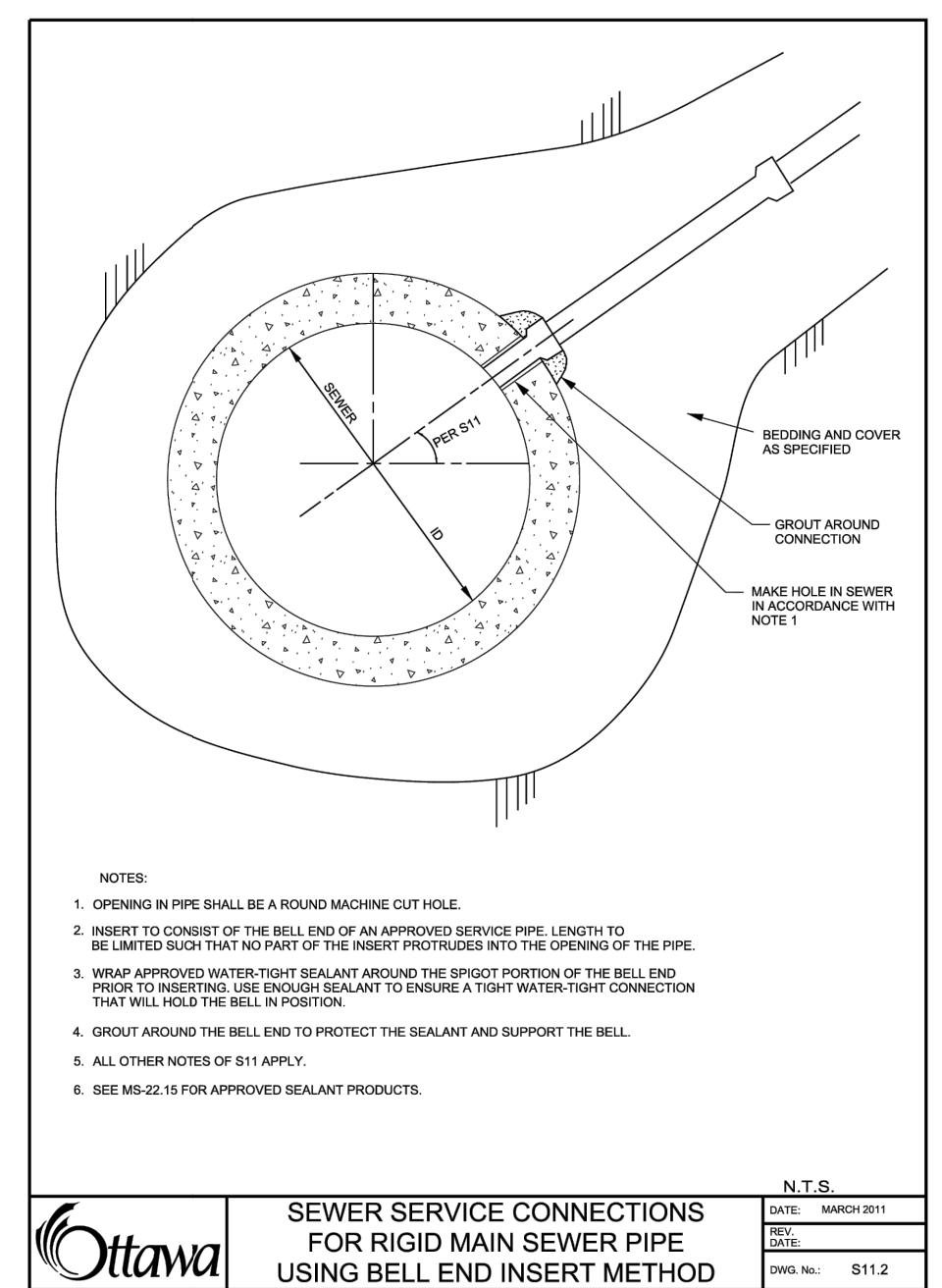
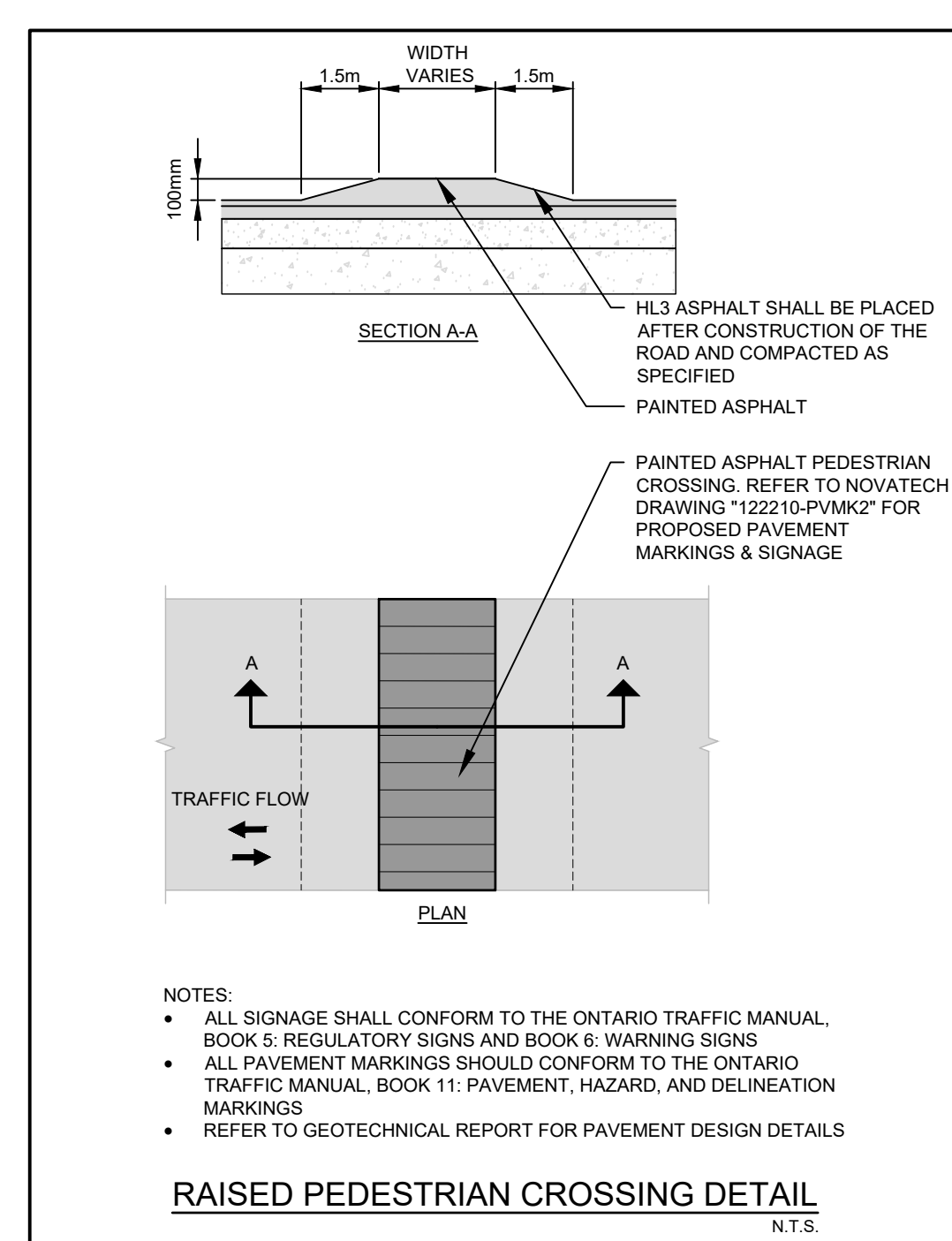
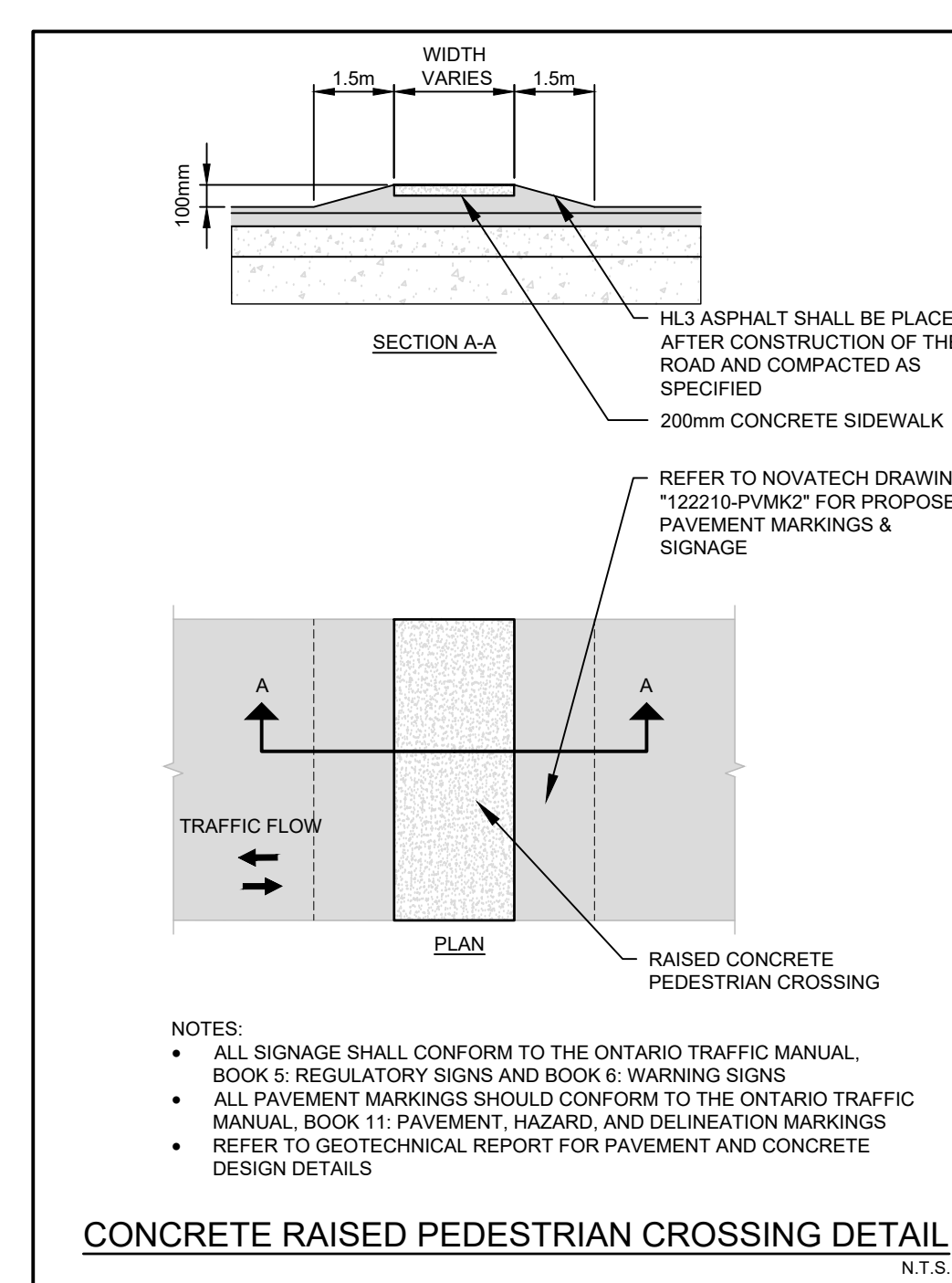
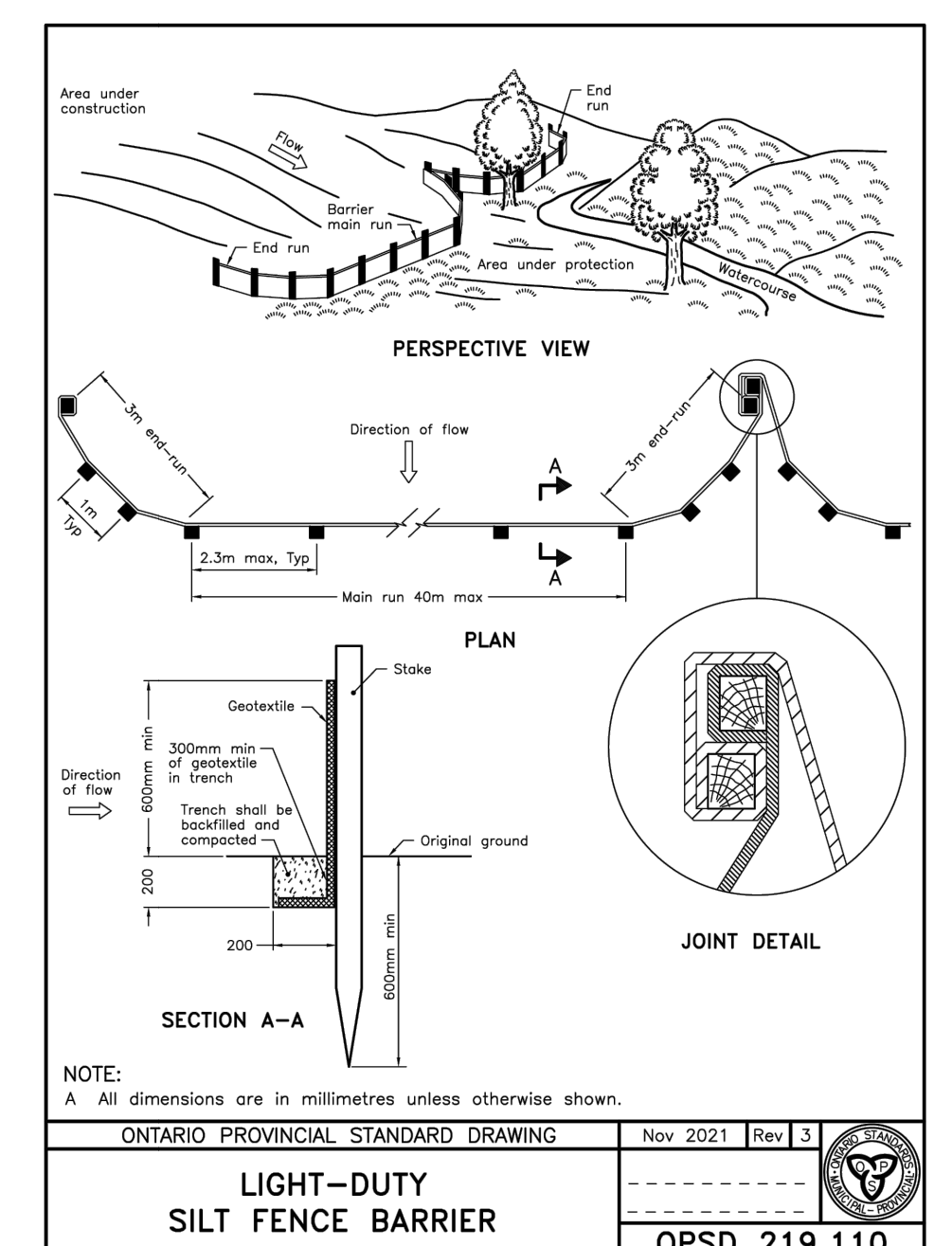
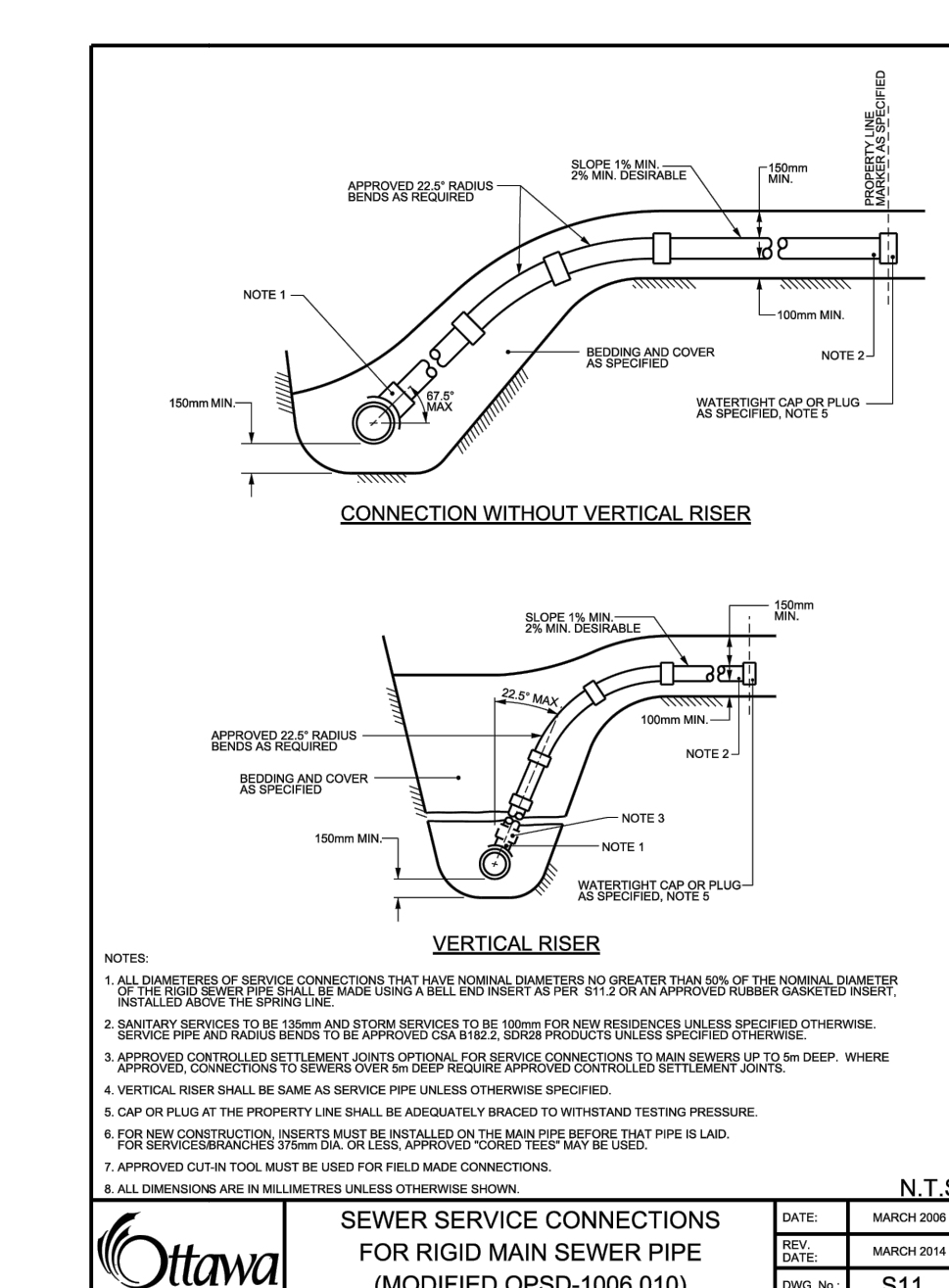
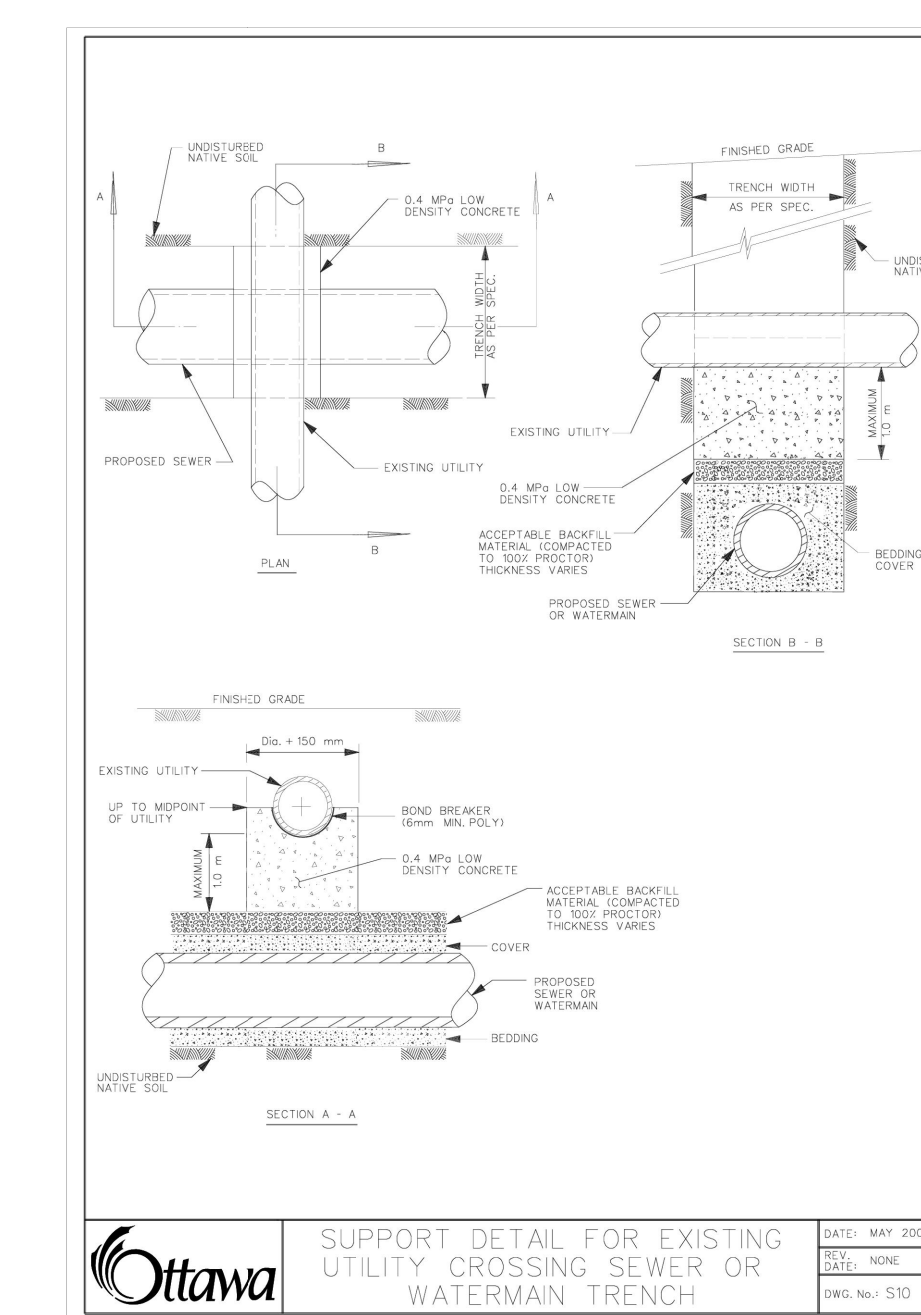
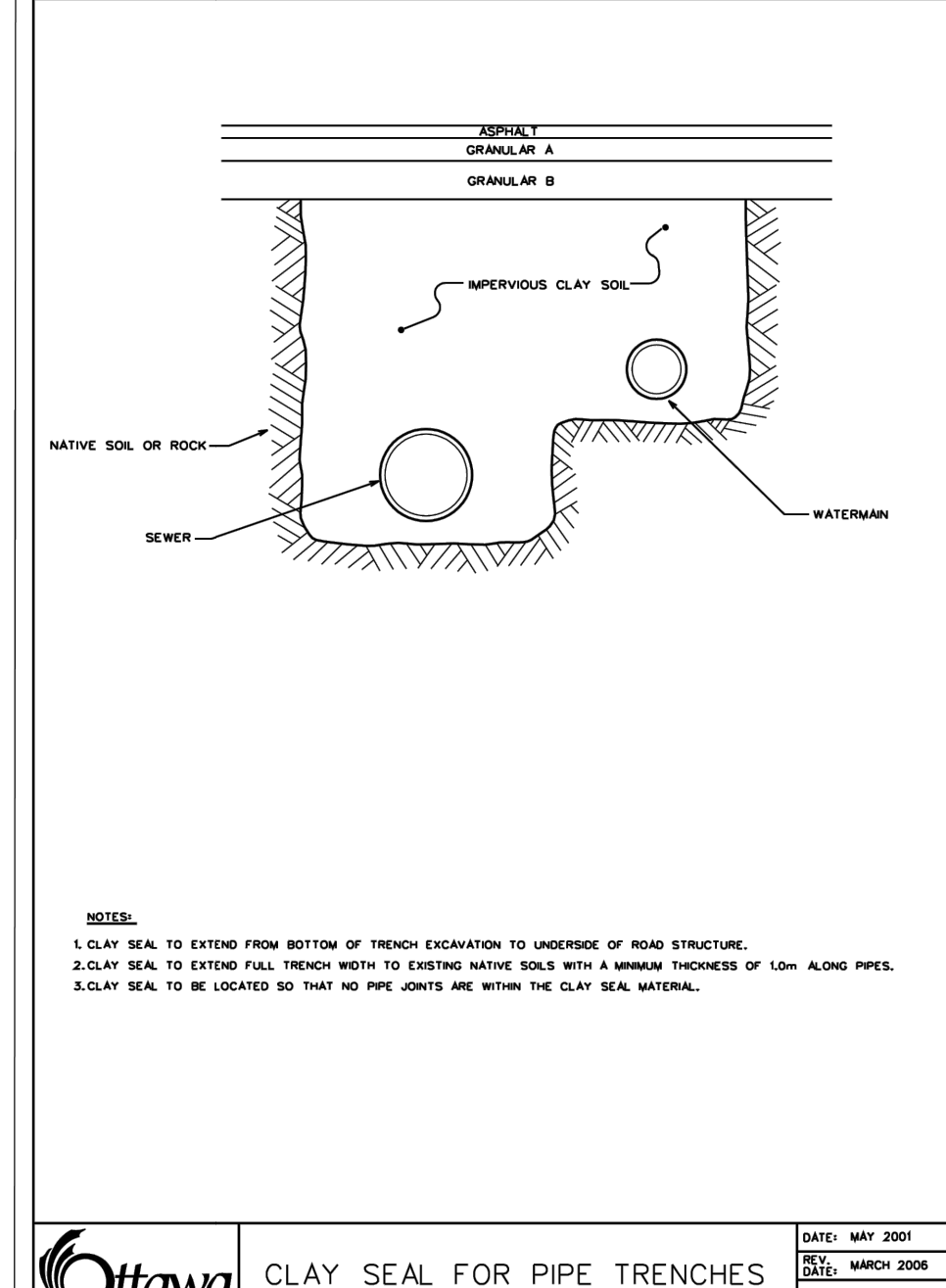
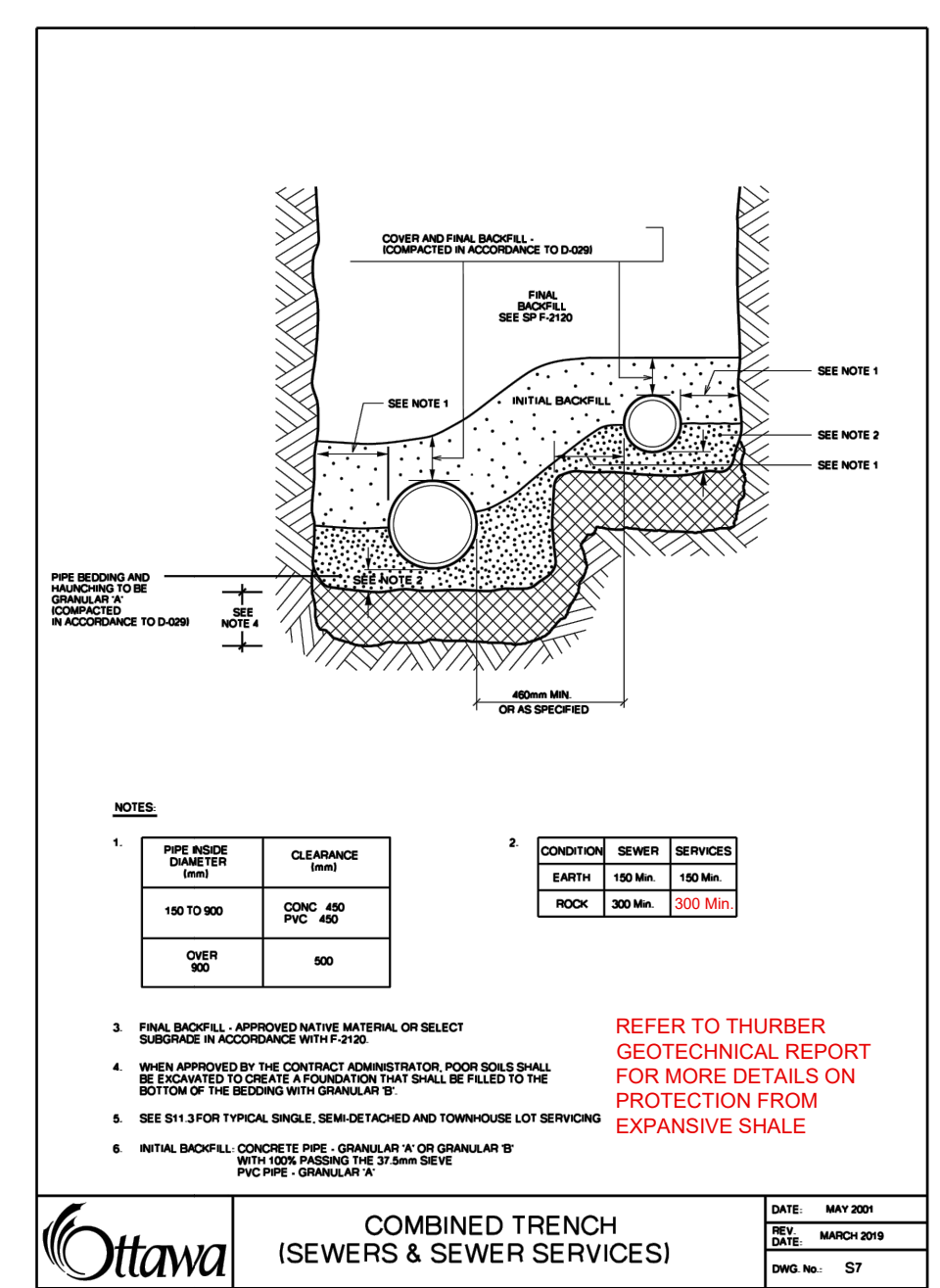
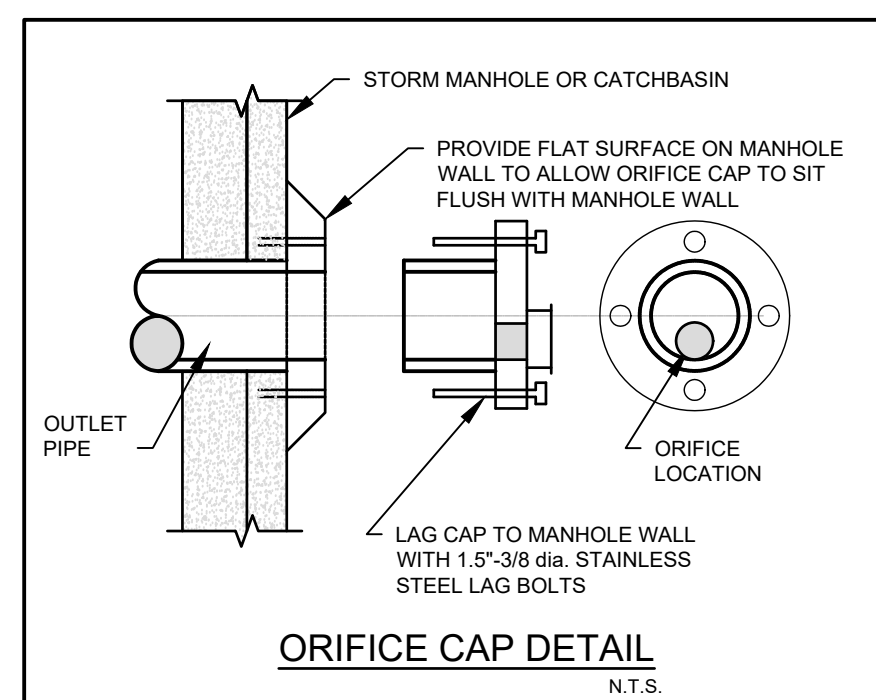
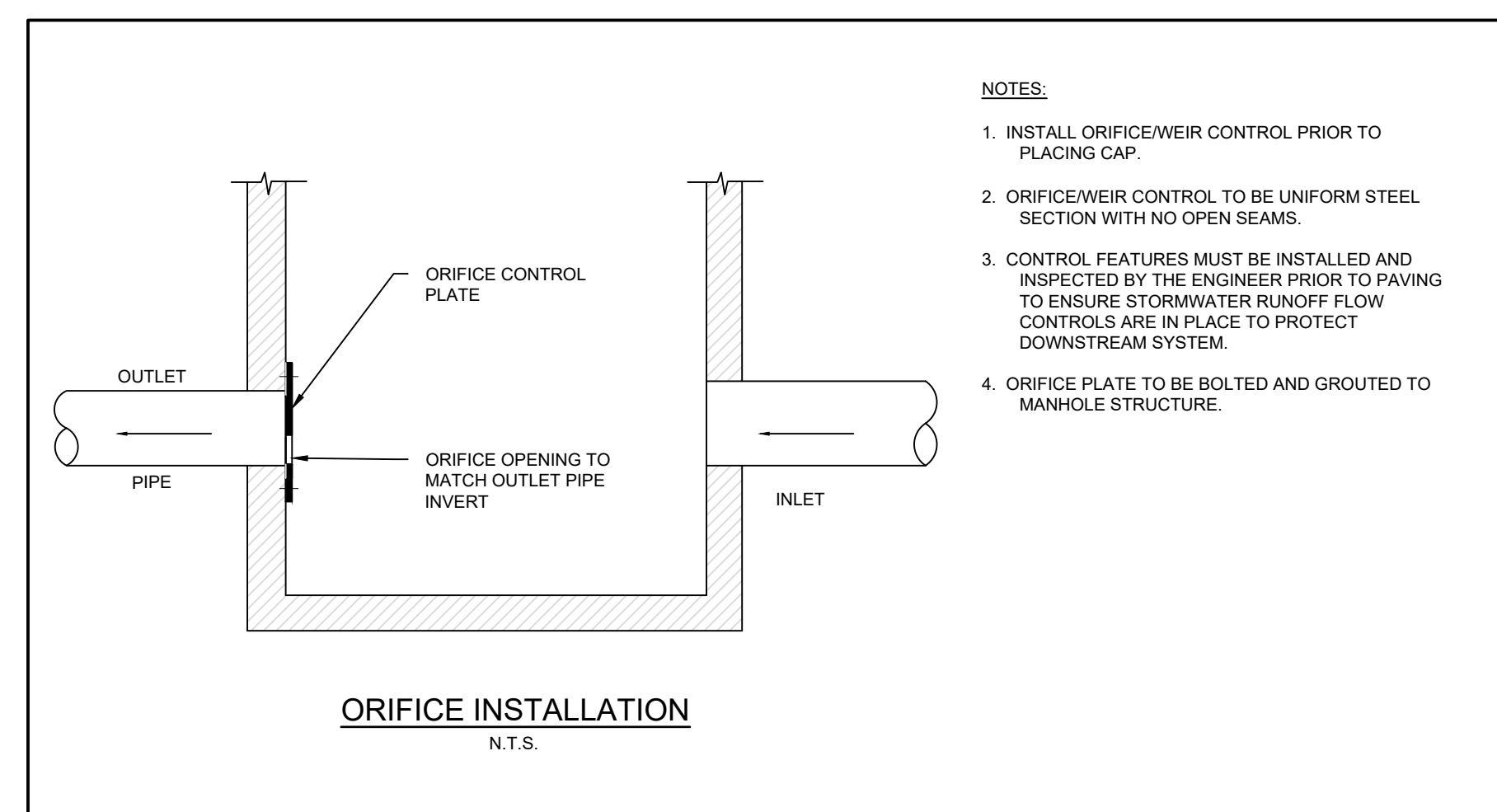
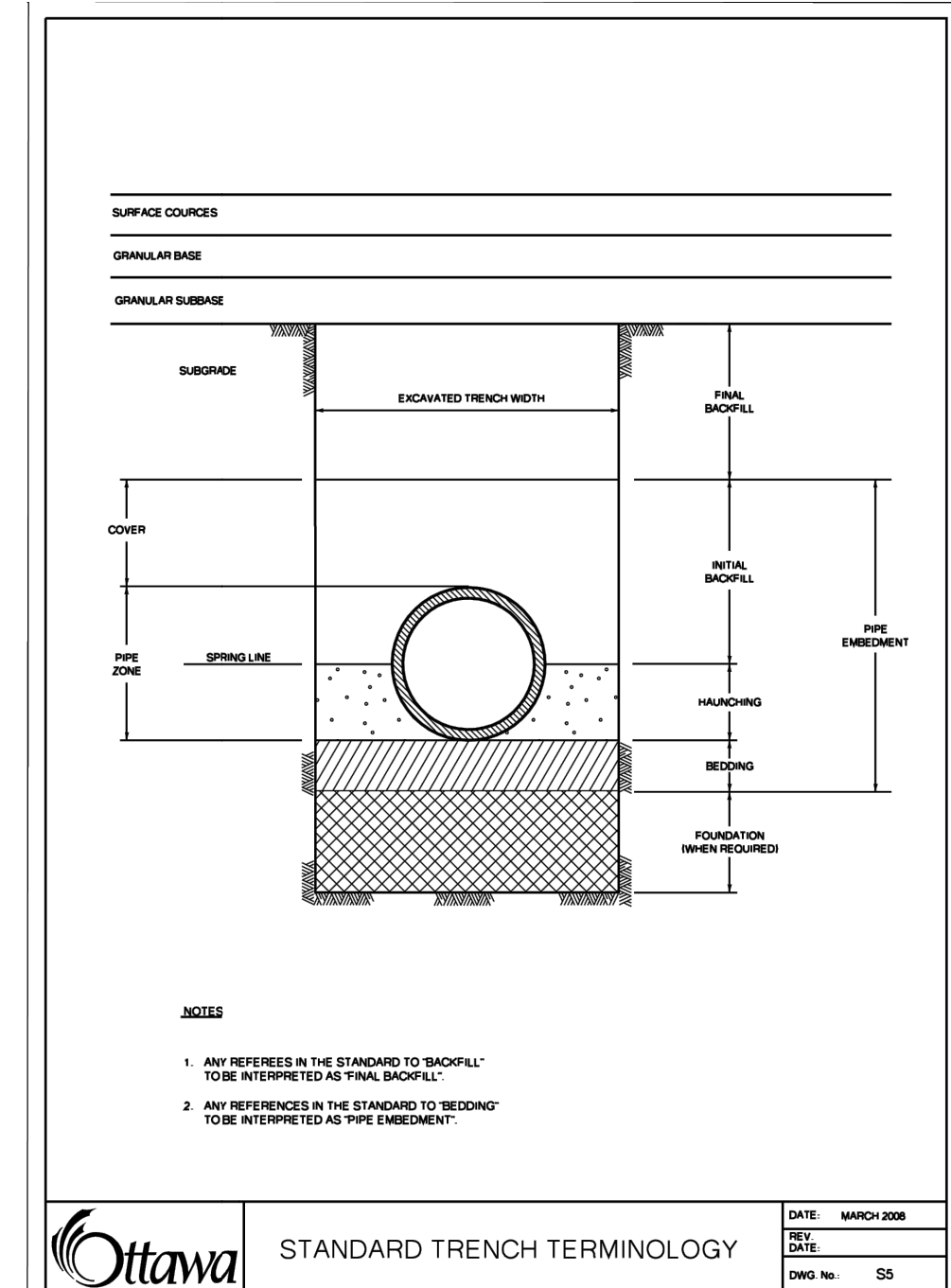
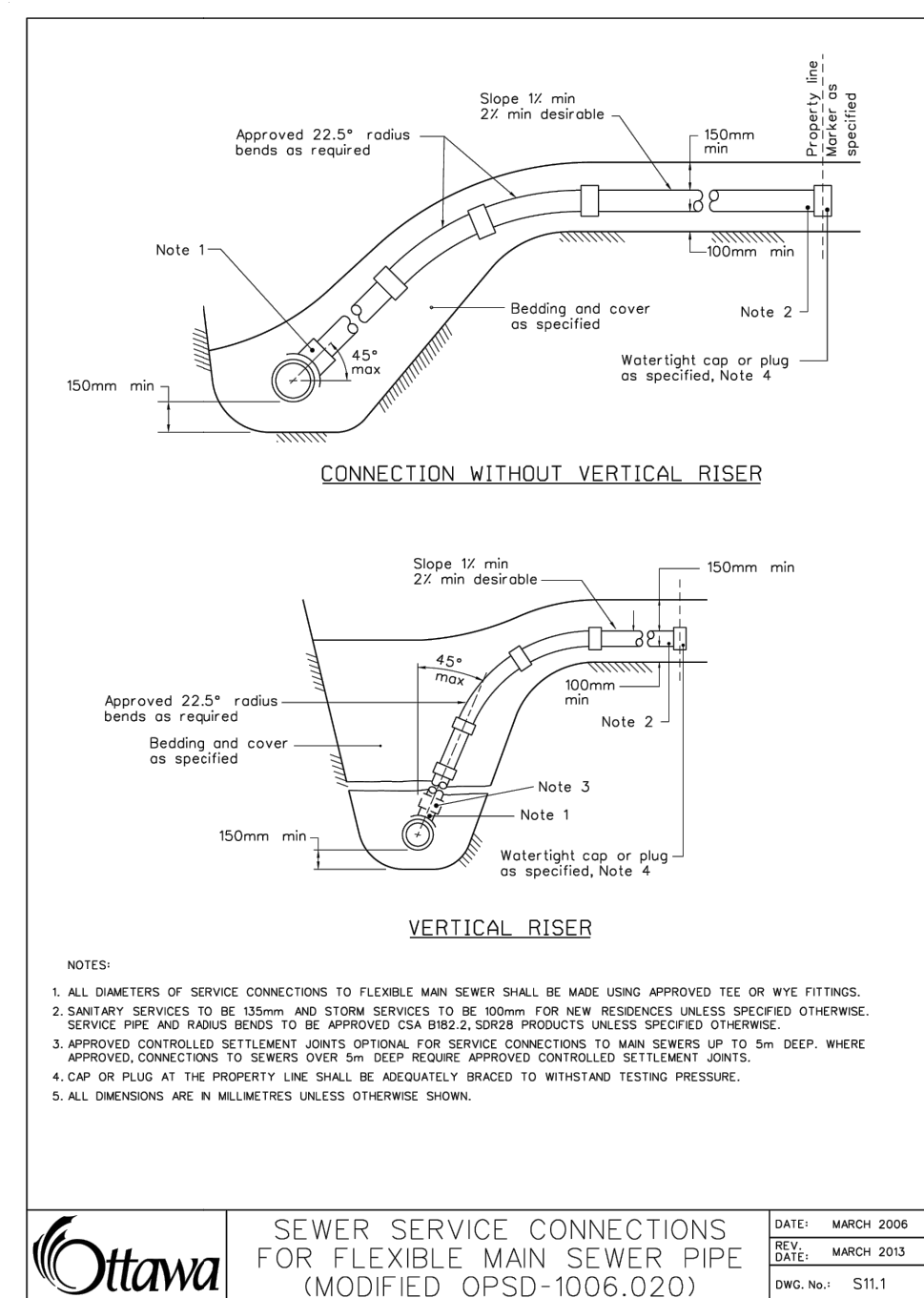
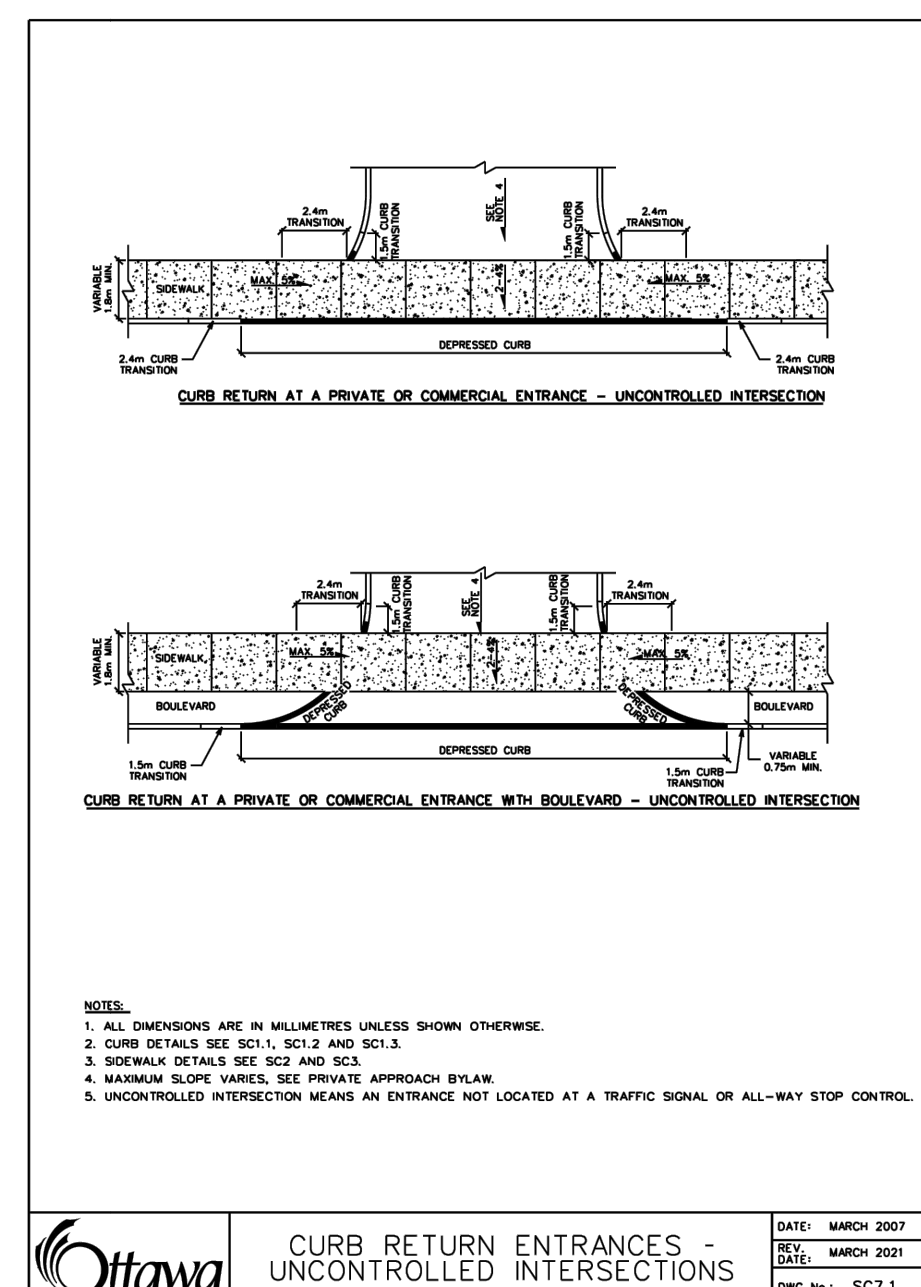
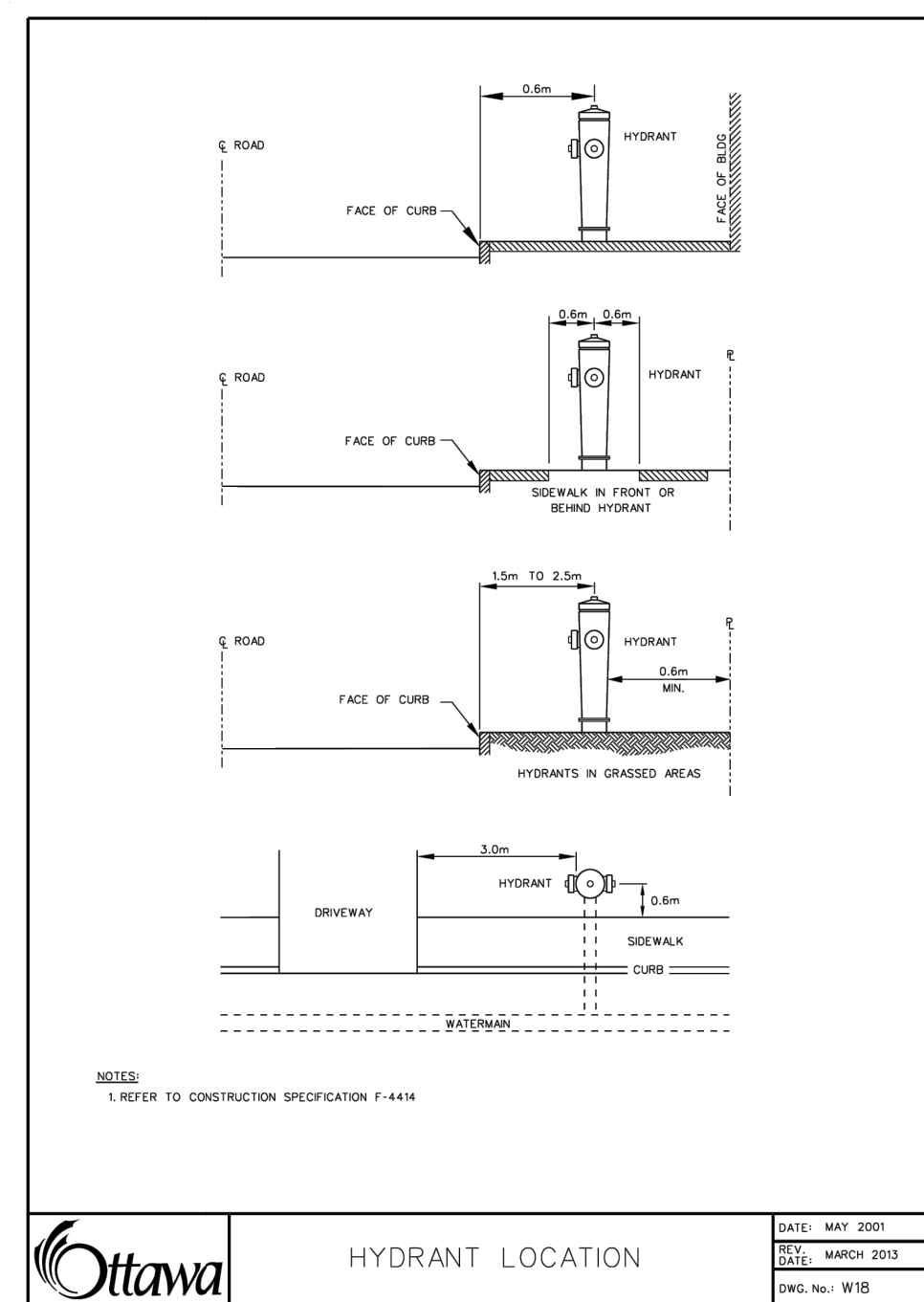
7670575

100% OF OWNED


REPRODUCTION OR REUSE OF THIS DOCUMENT FOR ANY PURPOSES WITHOUT THE WRITTEN PERMISSION OF THE PROFESSIONAL ENGINEER IS PROHIBITED. ANY VIOLATION OF THIS STATEMENT OF WORKS AND CONDITIONS SHALL BE CONSIDERED A BREACH OF THE PROFESSIONAL ENGINEER'S OATH AND SUBJECT TO THE PENALTIES AND CONDITIONS OF THE PROFESSIONAL ENGINEER'S OATH AND SUBJECT TO THE PENALTIES AND CONDITIONS OF THE PROFESSIONAL ENGINEER'S OATH.

THIS DOCUMENT IS THE PROPERTY OF THE PROFESSIONAL ENGINEER AND SHALL BE RETURNED TO THE PROFESSIONAL ENGINEER UPON COMPLETION OF THE PROJECT.

CONSENT OF 2ND DRAWING



1	17/04/24	ISSUED FOR SPC RE-SUBMISSION
1	25/02/24	ISSUED FOR 100% CR SUBMISSION R1
1	25/02/24	ISSUED FOR 100% CR RE-SUBMISSION
1	25/01/10	ISSUED FOR 100% CR SUBMISSION
1	23/12/10	ISSUED FOR SPC RE-SUBMISSION
1	23/12/17	ISSUED FOR 100% CR SUBMISSION
1	24/08/23	ISSUED FOR SPC CR SUBMIT AT TUNNEL
1	24/08/23	ISSUED FOR BUILDING PERMIT
8	24/08/23	ISSUED FOR SITE PLAN CONULT
7	24/08/07	ISSUED FOR 50% CR SUBMISSION
6	24/06/03	ISSUED FOR 100% CR SUBMISSION R2
5	24/05/10	ISSUED FOR FOUNDATION PERMIT
1	23/12/17	ISSUED FOR 100% CR SUBMISSION
3	23/01/24	RE-ISSUED FOR BUILDING PERMIT (TUNNEL)
2	23/12/20	ISSUED FOR BUILDING PERMIT (TUNNEL)
1	23/12/15	RE-ISSUED FOR 50% CR SUBMISSION
0	23/12/15	ISSUED FOR 50% CR DO SUBMISSION
<div> <div>DATE:</div> <div>REVISION:</div> </div>		



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY WALTERED IS FORBIDDEN. CONTRACTORS SHALL VERIFY THE INFORMATION IS CORRECT FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO WALTERED. DO NOT SCALE THIS DRAWING.

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CHEO INTEGRATED
TREATMENT CENTRE
401 SMYTH RD. OTTAWA, ON K1H8L1

TITLE

TYPICAL DETAILS AND NOTES PLAN

SCALE: AS NOTED

DRAWN BY: DL, TK, ZS

JOB NUMBER: 2021-0821-13

PLOT DATE: 2025.04.01

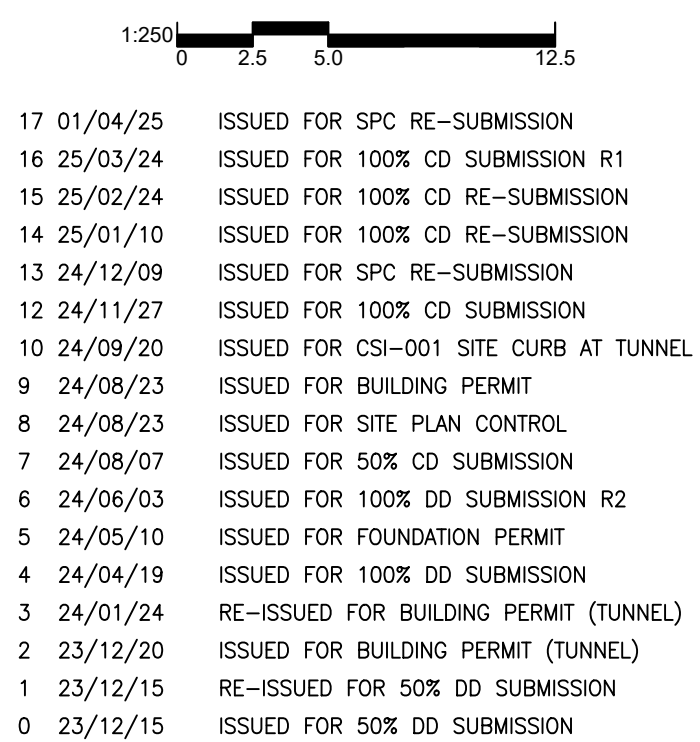
DRAWING NUMBER:

C0009

PLAN #: 19223

DEVELOPMENT #: D07-12-24-0121

1. THIS SET OF PLANS SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY THE DESIGN ENGINEER AND APPROVED BY THE LOCAL MUNICIPALITY.
2. NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.
3. THIS PLAN IS NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF WATERLEDY.
4. THE POSITION OF POLE LINES, CONDUITS, CABLES, SEWERS AND WATER MAINS, UNDERGROUND AND OVERGROUND UTILITIES, SHALL BE SHOWN AND NOTED AS SHOWN ON THE CONTRACT DRAWINGS AND, WHERE NECESSARY, THE EXISTING STATE OF SUCH UTILITIES AND STRUCTURES IS NOT TO BE AFFECTED BY THE CONTRACTOR SHALL INURE THEMSELVES OF THE EXISTING STATE OF SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL DAMAGE TO SUCH UTILITIES AND STRUCTURES NOT LOCATED PRIOR TO CONSTRUCTION.
5. ANY AREA DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL STATE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL DAMAGED AREAS TO THE ORIGINAL PROPOSED STATE OF THE MUNICIPAL ROAD TO VULV MUNICIPAL STATION.
6. ALL HEALTH AND SAFETY RELATED SIGNAGE MUST BE POSTED AT THE SITE AS REQUIRED BY THE LOCAL AUTHORITY AND BEST MANAGEMENT PRACTICES.
7. ON THE END OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE A COPY OF THE CONSULTANT WITH A DIGITAL FILE OF THE CONTRACT DRAWINGS. THE CONTRACTOR MUST REFLECT THE CONSTRUCTED STATE OF THE PROJECT AND THE DISCREPANCY OF THE DESIGN DRAWINGS AND CONTRACT CHANGES WILL NOT BE THE RESPONSIBILITY OF THE CONSULTANT.



STORM EVENT	MAXIMUM PONDING DEPTH (m)	MAXIMUM PONDING ELEVATION (m)	MAXIMUM VOLUME UTILIZED (m³)
2 YEAR	0.00	N/A	N/A
5 YEAR	0.00	N/A	N/A
10 YEAR	0.13	79.73	8.29
25 YEAR	0.14	79.74	11.10
50 YEAR	0.15	79.75	13.49
100 YEAR	0.15	79.75	16.16
100 YEAR + 20%	0.17	79.77	19.39



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY WATERFORD IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THIS AND REDOCT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO WATERFORD. DO NOT SCALE THIS DRAWING.

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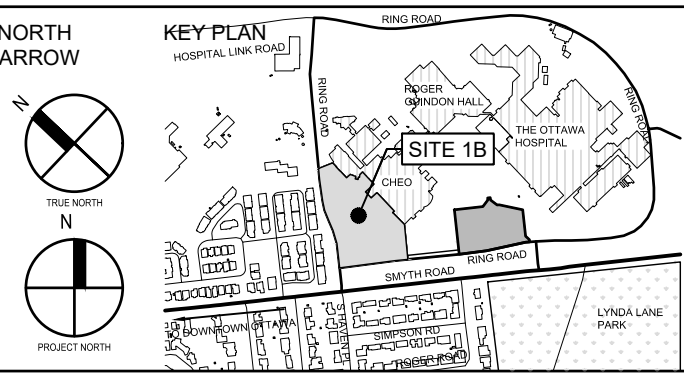
CHEO INTEGRATED
TREATMENT CENTRE
401 SMYTH RD. OTTAWA, ON K1H8L1

PROPOSED GRADING PLAN

SCALE: 1:250
DRAWN BY: DL, TK, ZS
REVIEWED BY: SF
JOB NUMBER: 2021-0821-1
PLOT DATE: 2025.04.01

C1101

PLAN #: 19223
DEVELOPMENT #: D07-12-24-0121

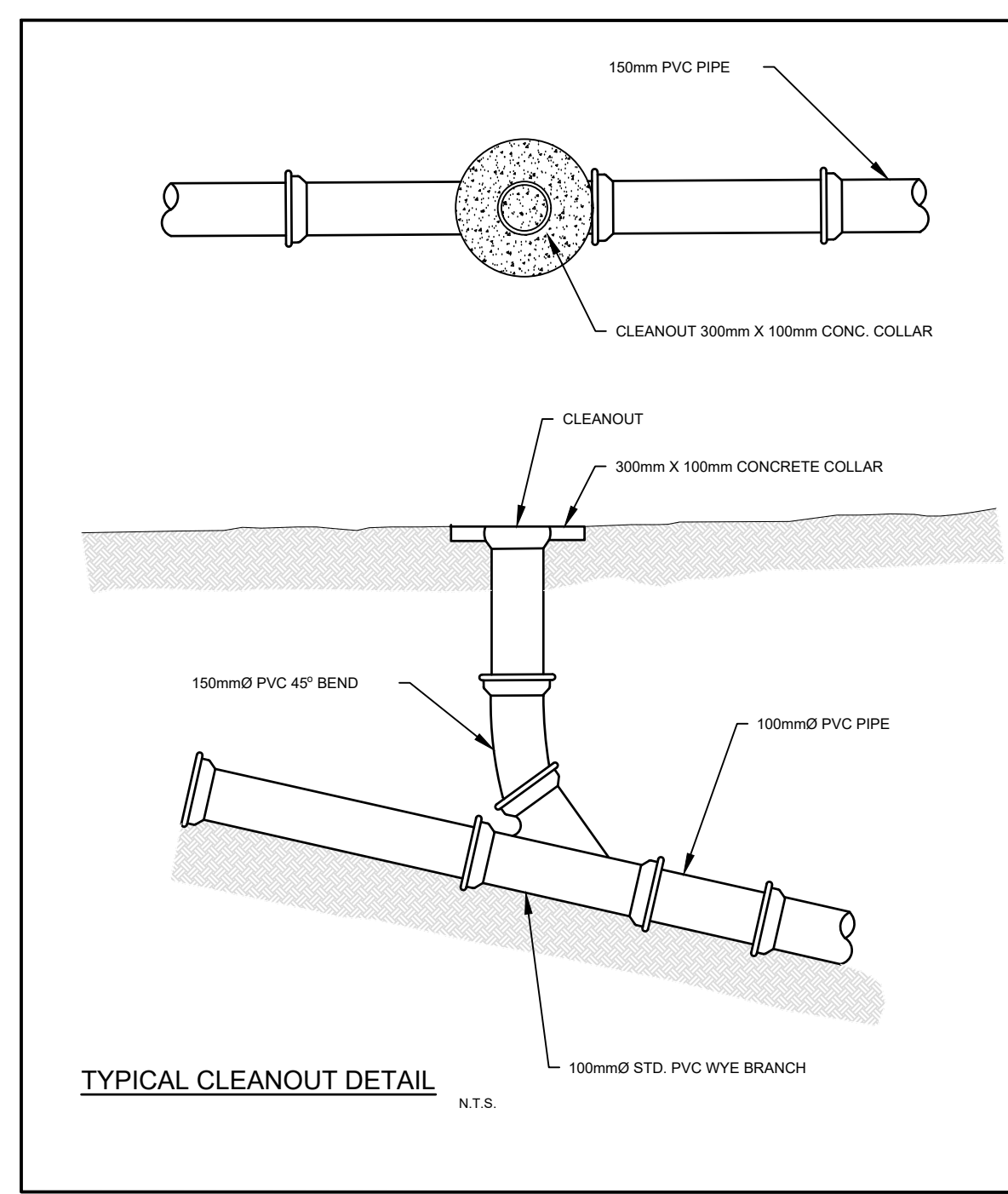


CROSSING TABLE		
CROSSING ID	PIPE Ø / INV	CLEARANCE (m)
CR1	PR STM INV=80.317 EX WTM ØB=78.507	0.81
CR2	PR STM INV=80.478 EX WTM ØB=78.782	0.71
CR3	PR STM INV=79.460 EX WTM ØB=78.410	1.05
CR4	EX STM ØB=77.074 PR WTM ØB=77.587	0.51
CR5	PR STM INV=79.448 PR WTM ØB=77.048 DEFLECT WITH LOCALITY TO AHEAD OF CROSSING	0.50
CR6	PR WTM INV=80.145 EX STM ØB=78.004	2.14
CR7	EX WTM INV=78.784 PR WTM ØB=78.004 DEFLECT WITH LOCALITY TO AHEAD OF CROSSING	0.50

*EXISTING WATERMAIN OBSTRUCTIONS BASED ON ASSUMED EX WTM DEPTH OF 2.4m

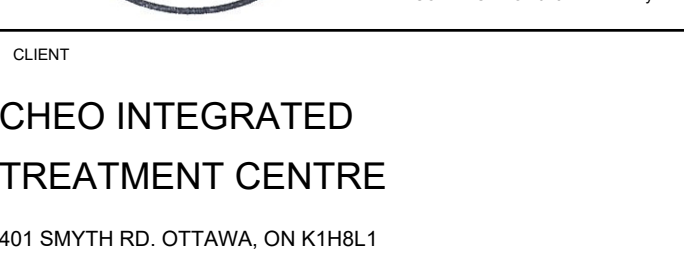
LEGEND

- PROPOSED LAMP STANDARD
- UP
- HP
- PROPOSED SIGN
- PR HYDRO TRANSFORMER
- CB
- PROPOSED CATCHBASIN
- DCB
- PROPOSED DOUBLE CATCHBASIN
- DCB(A)
- PROPOSED DITCH INLET CATCHBASIN (TYPE A)
- DCB(B)
- PROPOSED DITCH INLET CATCHBASIN (TYPE B)
- CBMH
- PROPOSED CATCHBASIN MANHOLE
- DCB(MH)
- PROPOSED DOUBLE CATCHBASIN MANHOLE
- DCB(MH/A)
- PROPOSED DITCH INLET CATCHBASIN MANHOLE (TYPE A)
- DCB(MH/B)
- PROPOSED DITCH INLET CATCHBASIN MANHOLE (TYPE B)
- MH
- PROPOSED STORM MANHOLE
- MH
- PROPOSED SANITARY MANHOLE
- HYD
- PROPOSED FIRE HYDRANT
- WV
- PROPOSED WATERMAIN VALVE
- CS
- PROPOSED CURB STOP
- REDUCER
- PROPOSED REDUCER
- PROPOSED FIRE DEPARTMENT CONNECTION
- EXISTING DOUBLE CATCHBASIN
- EXISTING DITCH INLET CATCHBASIN
- EXISTING STORM MANHOLE
- EXISTING CATCHBASIN MANHOLE
- EXISTING DOUBLE CATCHBASIN MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATERMAIN VALVE
- EXISTING CURB STOP
- EXISTING FIRE DEPARTMENT CONNECTION
- EXISTING WELL
- PROPOSED PIPE INSULATION
- PROPOSED SANITARY SEWERSERVICE
- PROPOSED STORM SEWERSERVICE
- PROPOSED WATERMAIN SERVICE
- EXISTING SANITARY SERVICE
- EXISTING STORM SERVICE
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- SEEPAGE BARRIER CLAY SEAL
- SEE DETAIL ON C0009
- PROPOSED GAS METER LOCATION
- PROPOSED GAS MAIN



12 CONTROL FLOW ROOF
DRAINS AND PROPOSED GREEN
ROOF. SEE MECHANICAL AND
ARCHITECTURAL ROOF PLANS
FOR MORE DETAILS.

DATE	REVISION
17 01/24/25	ISSUED FOR SPC RE-SUBMISSION
16 25/03/24	ISSUED FOR 100% CD SUBMISSION R1
15 25/02/24	ISSUED FOR 100% CD RE-SUBMISSION
14 25/01/10	ISSUED FOR 100% CD RE-SUBMISSION
13 24/12/09	ISSUED FOR SPC RE-SUBMISSION
12 24/11/27	ISSUED FOR 100% CD SUBMISSION
10 24/09/20	ISSUED FOR CD-601 SITE CURB AT TUNNEL
9 24/08/23	ISSUED FOR SITE PLAN CONTROL
7 24/08/07	ISSUED FOR 50% CD SUBMISSION
6 24/06/03	ISSUED FOR 100% CD SUBMISSION R2
5 24/05/10	ISSUED FOR FOUNDATION PERMIT
4 24/04/19	ISSUED FOR 100% CD SUBMISSION
3 24/01/24	RE-ISSUED FOR BUILDING PERMIT (TUNNEL)
2 23/12/20	ISSUED FOR BUILDING PERMIT (TUNNEL)
1 23/12/15	RE-ISSUED FOR 50% CD SUBMISSION
0 23/12/15	ISSUED FOR 50% CD SUBMISSION



CLIENT

CHEO INTEGRATED

TREATMENT CENTRE

401 SMYTH RD, OTTAWA, ON K1M1B1

TITLE

PROPOSED SERVICING PLAN

SCALE: 1:250

DRAWN BY: DL, TK, ZS

REVIEWED BY: SF

JOB NUMBER: 2021-0821-13

PLOT DATE: 2025-04-01

DRAWING NUMBER

C1201

PLAN # 19223

DEVELOPMENT # D07-12-24-0121



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN THAT AUTHORIZED BY WATERFORD IS FORWARDED CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO WATERFORD. DO NOT SCALE THIS DRAWING.

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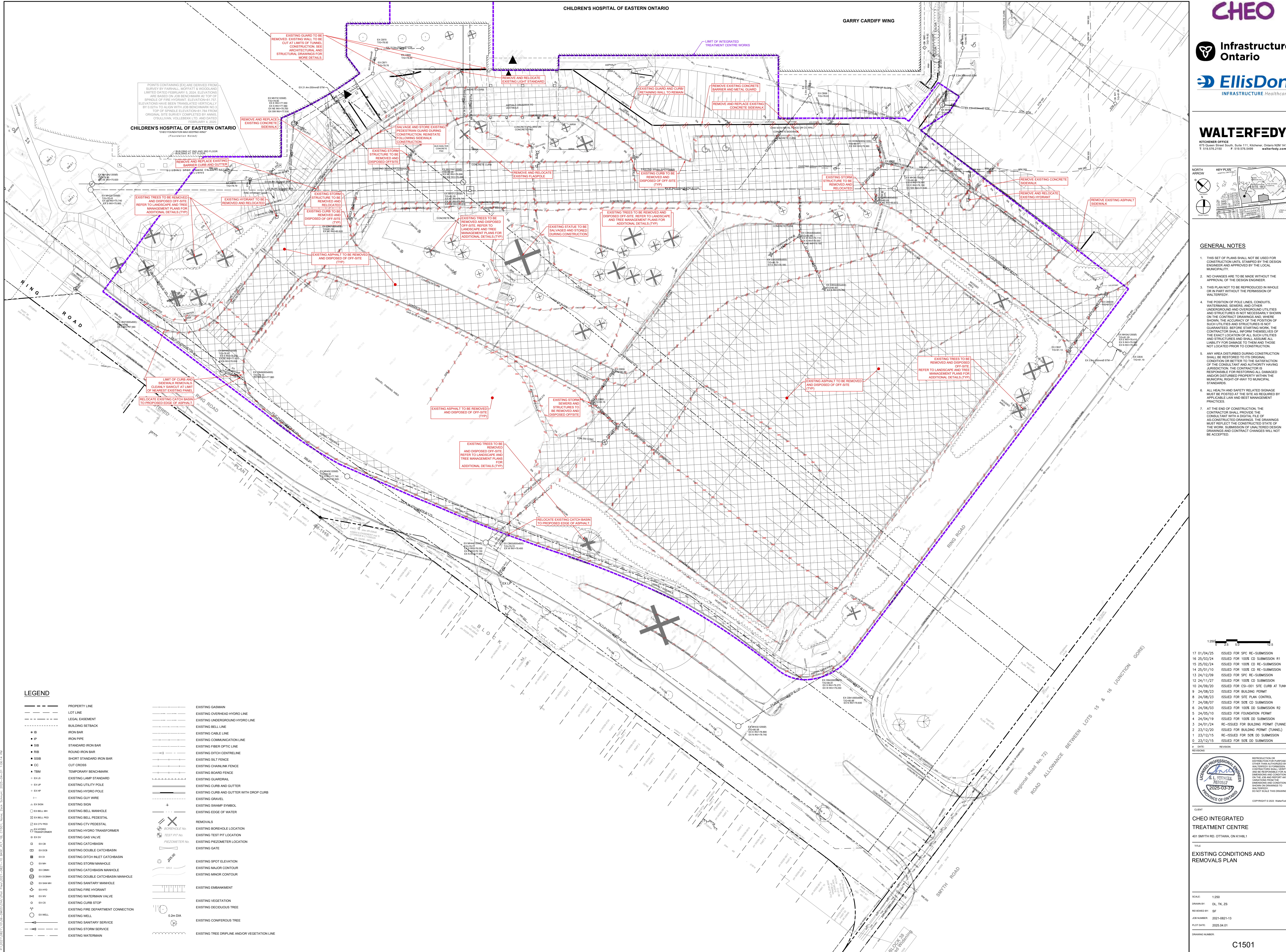
CHEO INTEGRATED
TREATMENT CENTRE
401 SMYTH RD. OTTAWA, ON K1H8L1

TITLE

PROPOSED BUILDING SUBDRAIN
PLAN

SCALE: 1:150
DRAIN BY: DL, TK, ZS
REVIEWED BY: SF
JOB NUMBER: 2021-0821-13
PLOT DATE: 2025.04.01
DRAINING NUMBER:

C1202



POINTS CONTAINING (BX) ARE DERIVED FROM SURVEY BY PARVAL, INDAPAT & WOODLAND LIMITED DATED FEBRUARY 5, 2024. ELEVATIONS ARE BASED ON JOB BENCHMARK AT TOP OF SPINDLE OF FIRE HYDRANT (ELEVATION 87.707) ELEVATIONS HAVE BEEN TRANSFERRED VERTICALLY BY 0.027m TO ALIGN WITH JOB BENCHMARK NO.3 TOP OF SPINDLE ELEVATION 79.6 FROM ORIGINAL SITE SURVEY COMPLETED BY ANNIS CONSULTING, VILLAGEVILLE, ONT. AND DATED FEBRUARY 4, 2020

CHILDREN'S HOSPITAL OF EASTERN ONTARIO
(Foundation Needs)

LEGEND

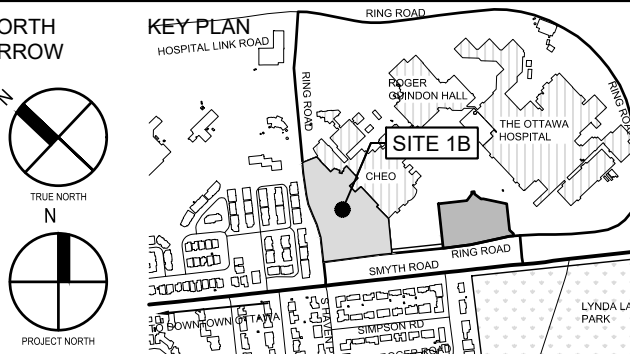
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---	LOT LINE	---	EXISTING OVERHEAD HYDRO LINE
---	LEGAL EASEMENT	---	EXISTING UNDERGROUND HYDRO LINE
---	BUILDING SETBACK	---	EXISTING BELL LINE
● ID	IRON BAR	---	EXISTING CABLE LINE
● IP	IRON PIPE	---	EXISTING COMMUNICATION LINE
● RB	ROUND IRON BAR	---	EXISTING FIBER OPTIC LINE
● RB	ROUND IRON BAR	---	EXISTING DITCH CENTRELINE
● SSB	SHORT STANDARD IRON BAR	---	EXISTING SILT FENCE
● CC	CUT CROSS	---	EXISTING CHAINLINK FENCE
● TBM	TEMPORARY BENCHMARK	---	EXISTING BOARD FENCE
○ EX LLS	EXISTING LAMP STANDARD	---	EXISTING GUARDRAIL
○ EX UP	EXISTING UTILITY POLE	---	EXISTING CURB AND GUTTER
○ EX UP	EXISTING HYDRO POLE	---	EXISTING CURB AND GUTTER WITH DROP CURB
○ EX UP	EXISTING GUY WIRE	---	EXISTING DRAVE
○ EX SIGN	EXISTING SIGN	---	EXISTING SWAMP SYMBOL
○ EX BELL MH	EXISTING BELL MANHOLE	---	EXISTING EDGE OF WATER
○ EX BELL PED	EXISTING BELL PEDESTAL	---	REMOVALS
○ EX CIV PED	EXISTING CIV PEDESTAL	---	EXISTING BORERHOLE LOCATION
○ EX HYDRO TRANSFORMER	EXISTING HYDRO TRANSFORMER	---	EXISTING TEST PIT LOCATION
○ EX GV	EXISTING GAS VALVE	---	EXISTING PIEZOMETER LOCATION
○ EX CR	EXISTING CATCHBASIN	---	EXISTING GATE
○ EX CR	EXISTING DOUBLE CATCHBASIN	---	EXISTING SPOT ELEVATION
○ EX CR	EXISTING DITCH INLET CATCHBASIN	---	EXISTING MAJOR CONTOUR
○ EX CR	EXISTING STORM MANHOLE	---	EXISTING MINOR CONTOUR
○ EX CR	EXISTING CATCHBASIN MANHOLE	---	EXISTING EMBANKMENT
○ EX CR	EXISTING DOUBLE CATCHBASIN MANHOLE	---	EXISTING VEGETATION
○ EX CR	EXISTING SANITARY MANHOLE	---	EXISTING DECIDUOUS TREE
○ EX CR	EXISTING FIRE HYDRANT	---	EXISTING CONIFEROUS TREE
○ EX CR	EXISTING WATERMAIN VALVE	---	EXISTING TREE DIAPHRAGM AND/OR VEGETATION LINE
○ EX CR	EXISTING CURB STOP	---	
○ EX CR	EXISTING FIRE DEPARTMENT CONNECTION	---	
○ EX CR	EXISTING WELL	---	
○ EX CR	EXISTING SANITARY SERVICE	---	
○ EX CR	EXISTING STORM SERVICE	---	
○ EX CR	EXISTING WATERMAIN	---	

CHEO

Infrastructure Ontario

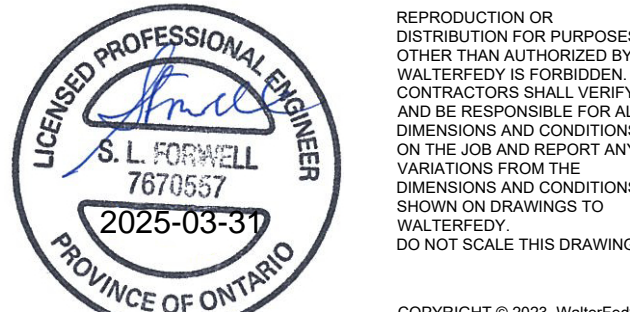
EllisDon
INFRASTRUCTURE Healthcare

WALTERFEDY
KITCHENER OFFICE
875 Queen Street South, Suite 111, Kitchener, Ontario N2M 1A1
T: 519.578.5195 F: 519.578.5499 walterfedycan.com



- #### GENERAL NOTES
- THIS SET OF PLANS SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY THE DESIGN ENGINEER AND APPROVED BY THE LOCAL MUNICIPALITY.
 - NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.
 - THIS PLAN NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF WALTERFEDY.
 - THE POSITION OF POLE LINES, CONDUITS, UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE ANY WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM AND THOSE NOT LOCATED PRIOR TO CONSTRUCTION.
 - ANY AREA DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE CONSULTANT AND AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL DAMAGED AND/OR DISTURBED PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY TO MUNICIPAL STANDARDS.
 - ALL HEALTH AND SAFETY RELATED SIGNAGE MUST BE POSTED AT THE SITE AS REQUIRED BY APPLICABLE LAW AND BEST MANAGEMENT PRACTICES.
 - AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CONSULTANT WITH A DIGITAL FILE OF AS-CONSTRUCTED DRAWINGS. THE DRAWINGS MUST REFLECT THE CONSTRUCTED STATE OF THE WORK. SUBMISSION OF UNALTERED DESIGN DRAWINGS AND CONTRACT CHANGES WILL NOT BE ACCEPTED.

17 01/24/25	ISSUED FOR SPC RE-SUBMISSION
16 25/23/24	ISSUED FOR 100% CD SUBMISSION R1
15 25/23/24	ISSUED FOR 100% CD RE-SUBMISSION
14 25/21/10	ISSUED FOR 100% CD RE-SUBMISSION
13 24/12/09	ISSUED FOR SPC RE-SUBMISSION
12 24/11/27	ISSUED FOR 100% CD SUBMISSION
10 24/09/20	ISSUED FOR CD-601 SITE CURB AT TUNNEL
9 24/08/23	ISSUED FOR BUILDING PERMIT
8 24/08/23	ISSUED FOR SITE PLAN CONTROL
7 24/08/07	ISSUED FOR 50% CD SUBMISSION
6 24/06/03	ISSUED FOR 100% CD SUBMISSION R2
5 24/05/10	ISSUED FOR FOUNDATION PERMIT
4 24/04/19	ISSUED FOR 100% CD SUBMISSION
3 24/01/24	RE-ISSUED FOR BUILDING PERMIT (TUNNEL)
2 23/12/20	ISSUED FOR BUILDING PERMIT (TUNNEL)
1 23/12/15	RE-ISSUED FOR 50% CD SUBMISSION
0 23/12/15	ISSUED FOR 50% CD SUBMISSION

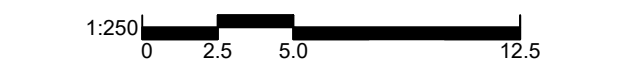
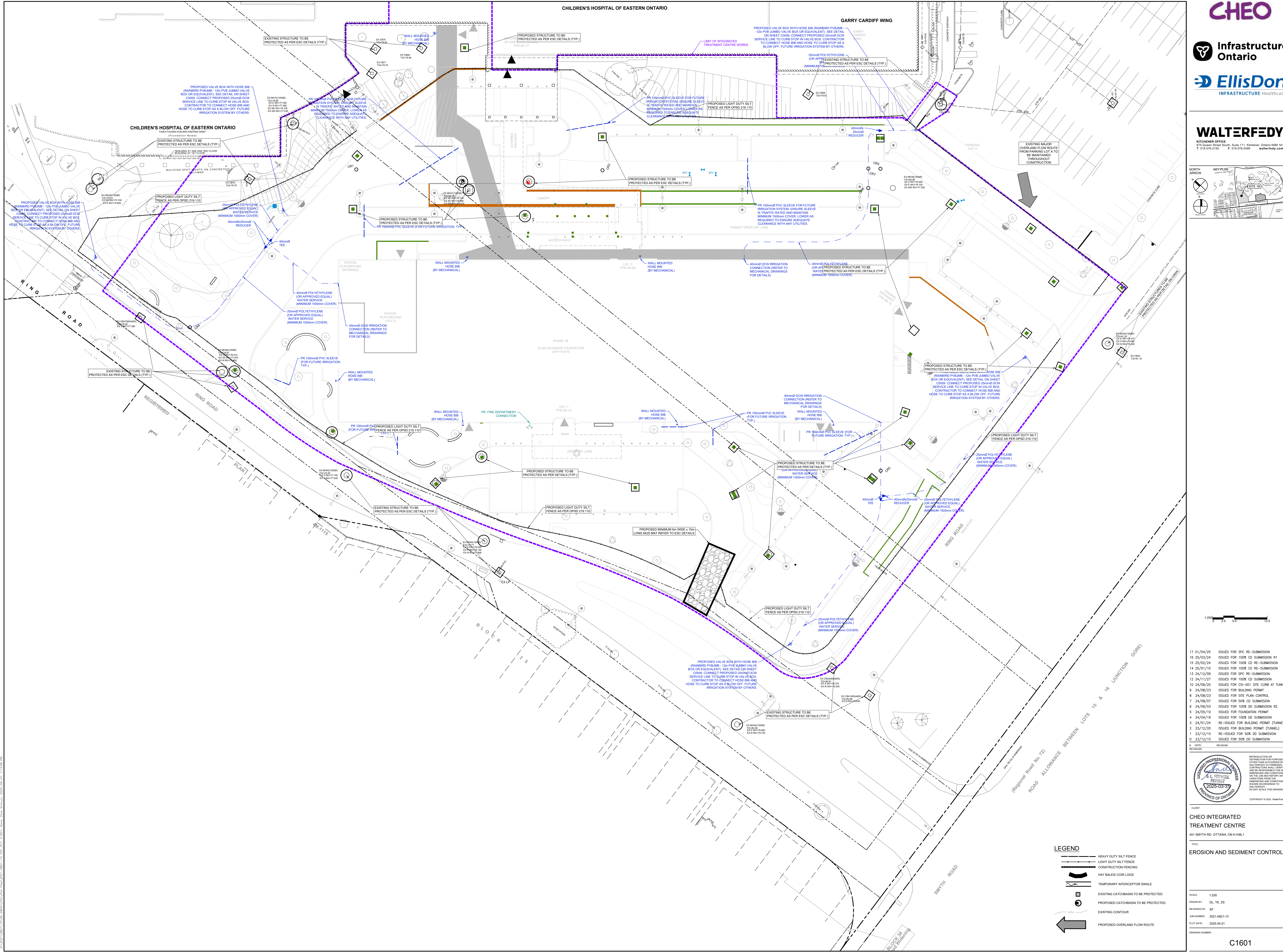


CLIENT
CHEO INTEGRATED TREATMENT CENTRE
401 SMYTH RD, OTTAWA, ON K1M1B1

TITLE
EXISTING CONDITIONS AND REMOVALS PLAN

SCALE: 1:250
DRAWN BY: DL TK, ZS
REVIEWED BY: SF
JOB NUMBER: 2021-0821-13
PLOT DATE: 2025-04-01
DRAWING NUMBER:

C1501
PLAN #: 19223
DEVELOPMENT #: D07-12-24-0121



17 01/24/25	ISSUED FOR SPC RE-SUBMISSION
16 25/23/24	ISSUED FOR 100% CD SUBMISSION R1
15 25/22/24	ISSUED FOR 100% CD RE-SUBMISSION
14 25/21/10	ISSUED FOR 100% CD RE-SUBMISSION
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5 24/05/10	ISSUED FOR FOUNDATION PERMIT
4 24/04/19	ISSUED FOR 100% CD SUBMISSION
3 24/01/20	RE-ISSUED FOR BUILDING PERMIT (TUNNEL)
2 23/12/20	ISSUED FOR BUILDING PERMIT (TUNNEL)
1 23/12/15	RE-ISSUED FOR 50% CD SUBMISSION
0 23/12/15	ISSUED FOR 50% CD SUBMISSION

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IS PROHIBITED.
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DO NOT SCALE THIS DRAWING.

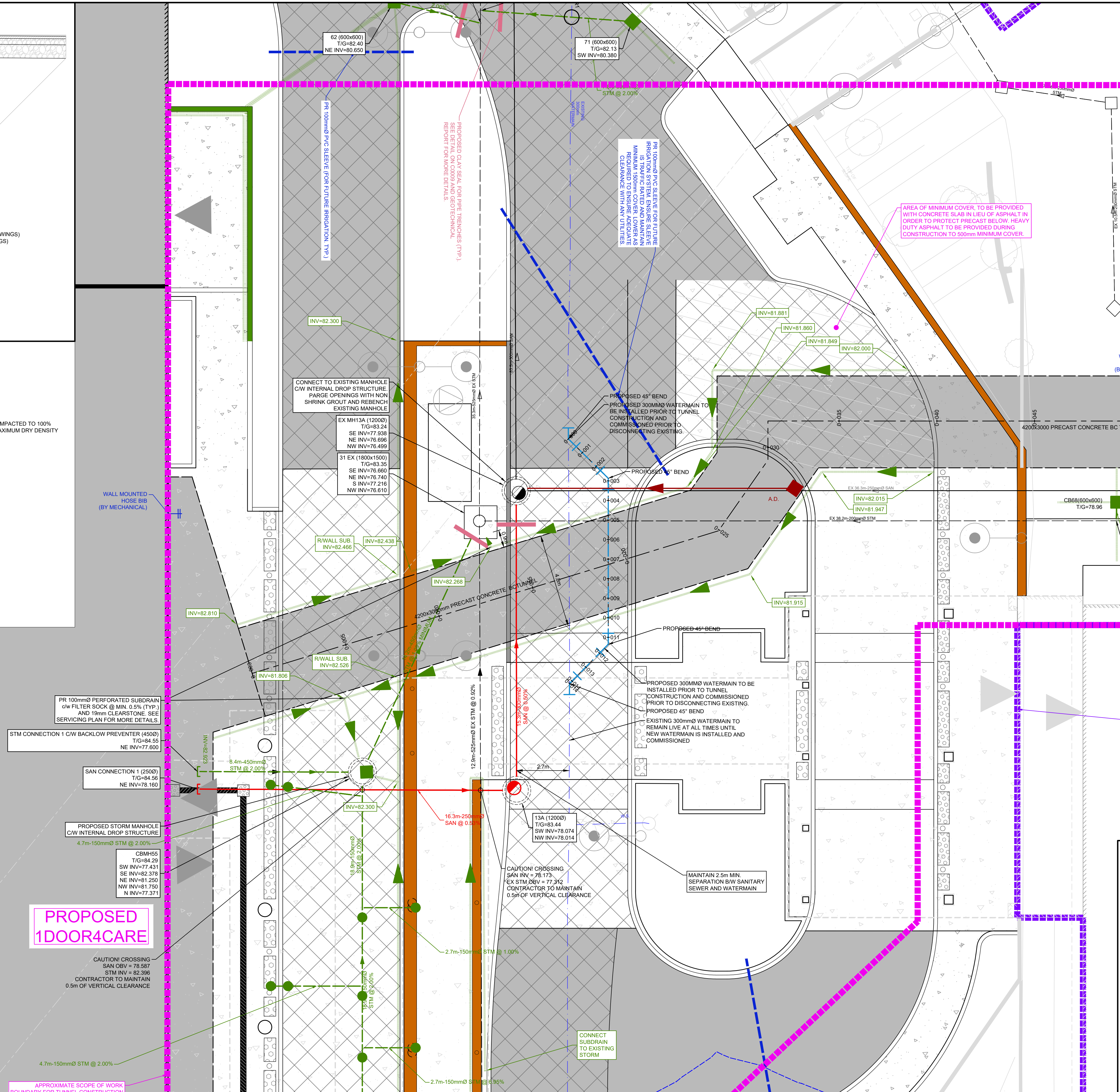
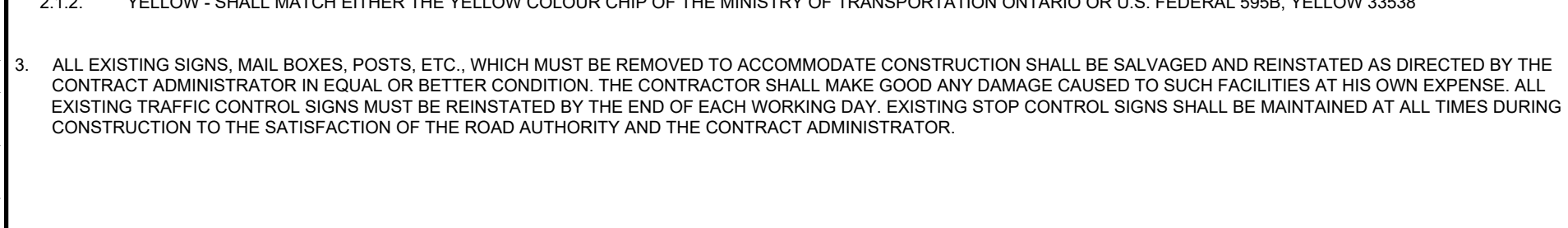
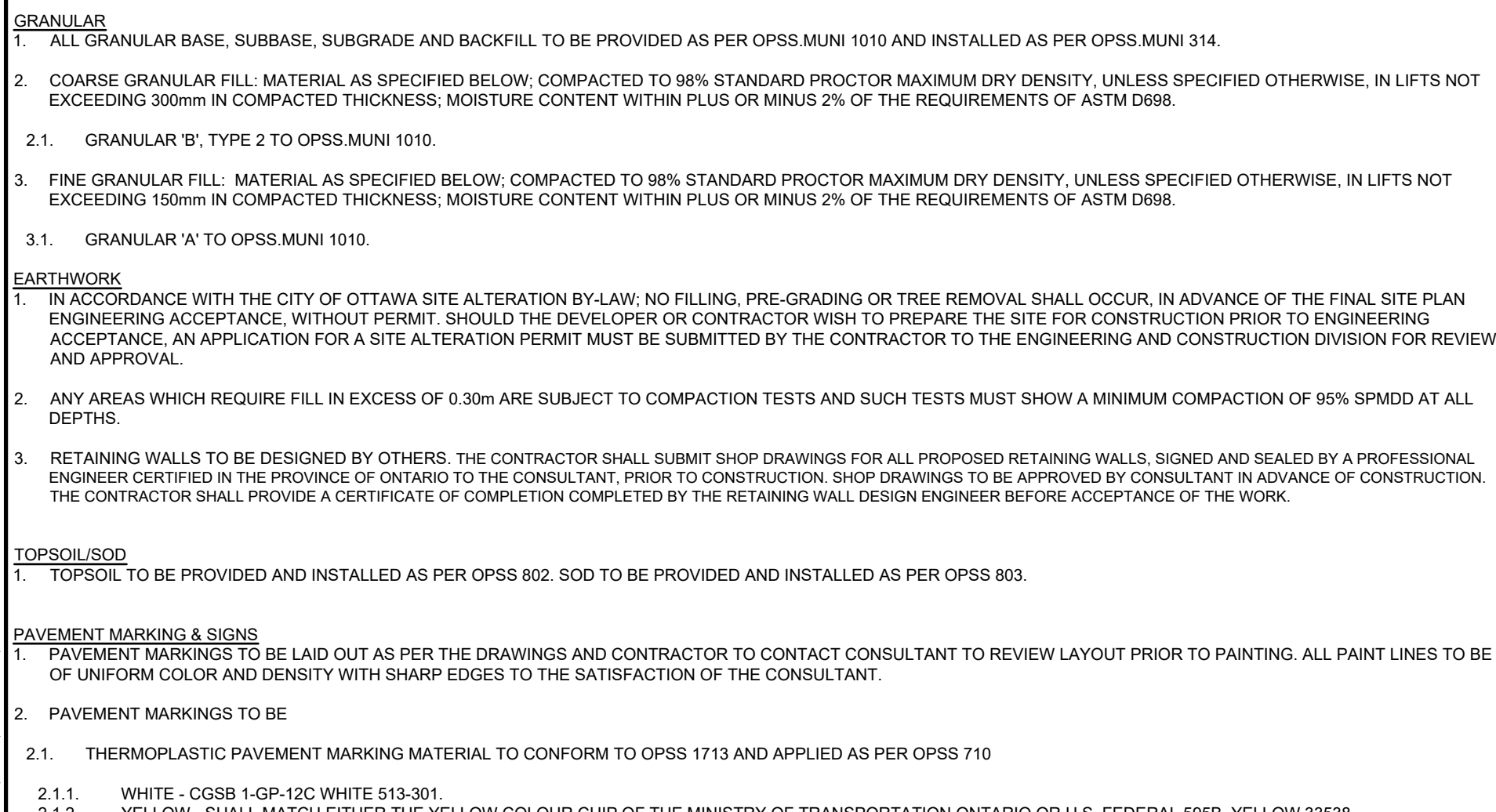
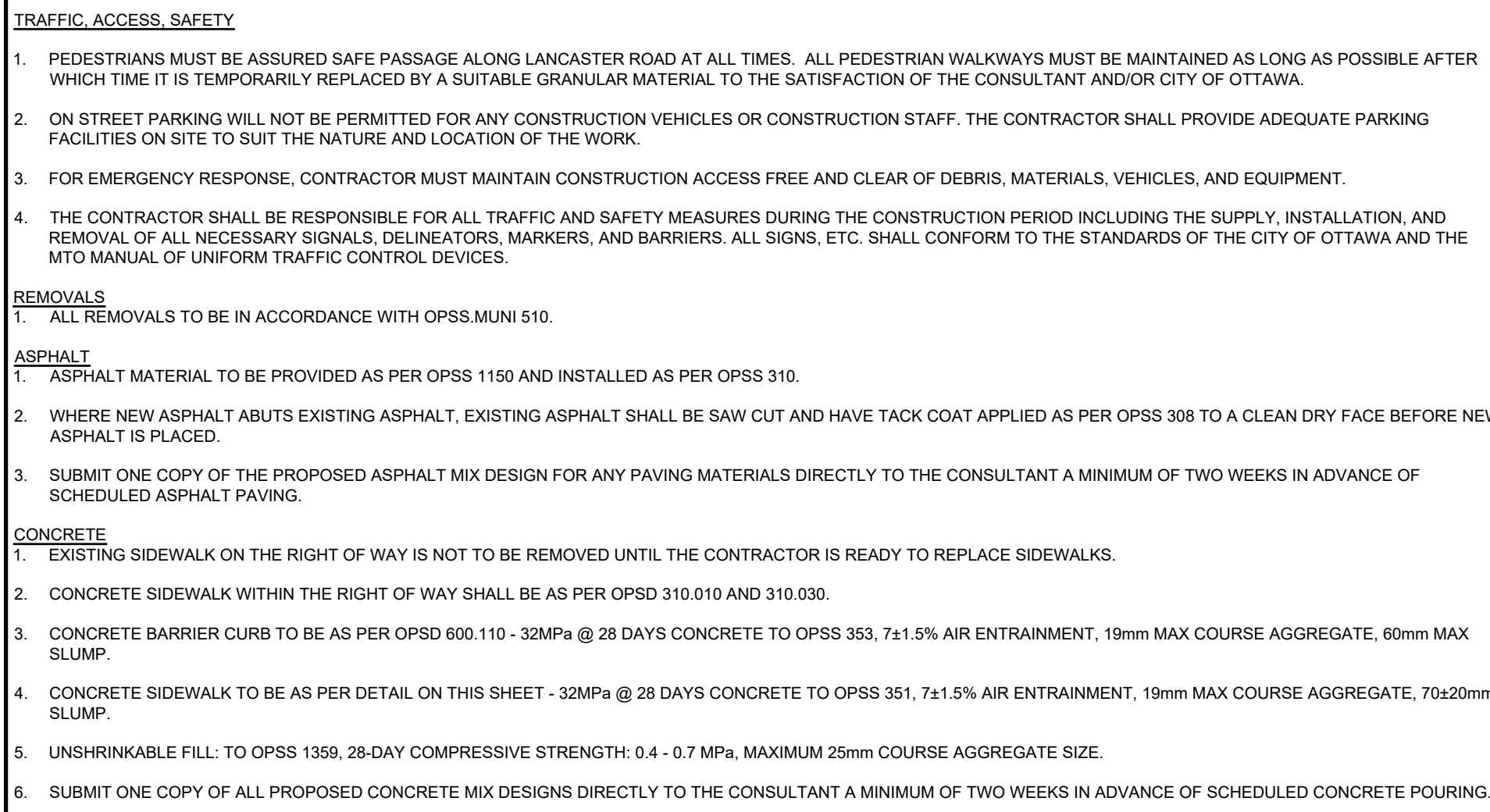
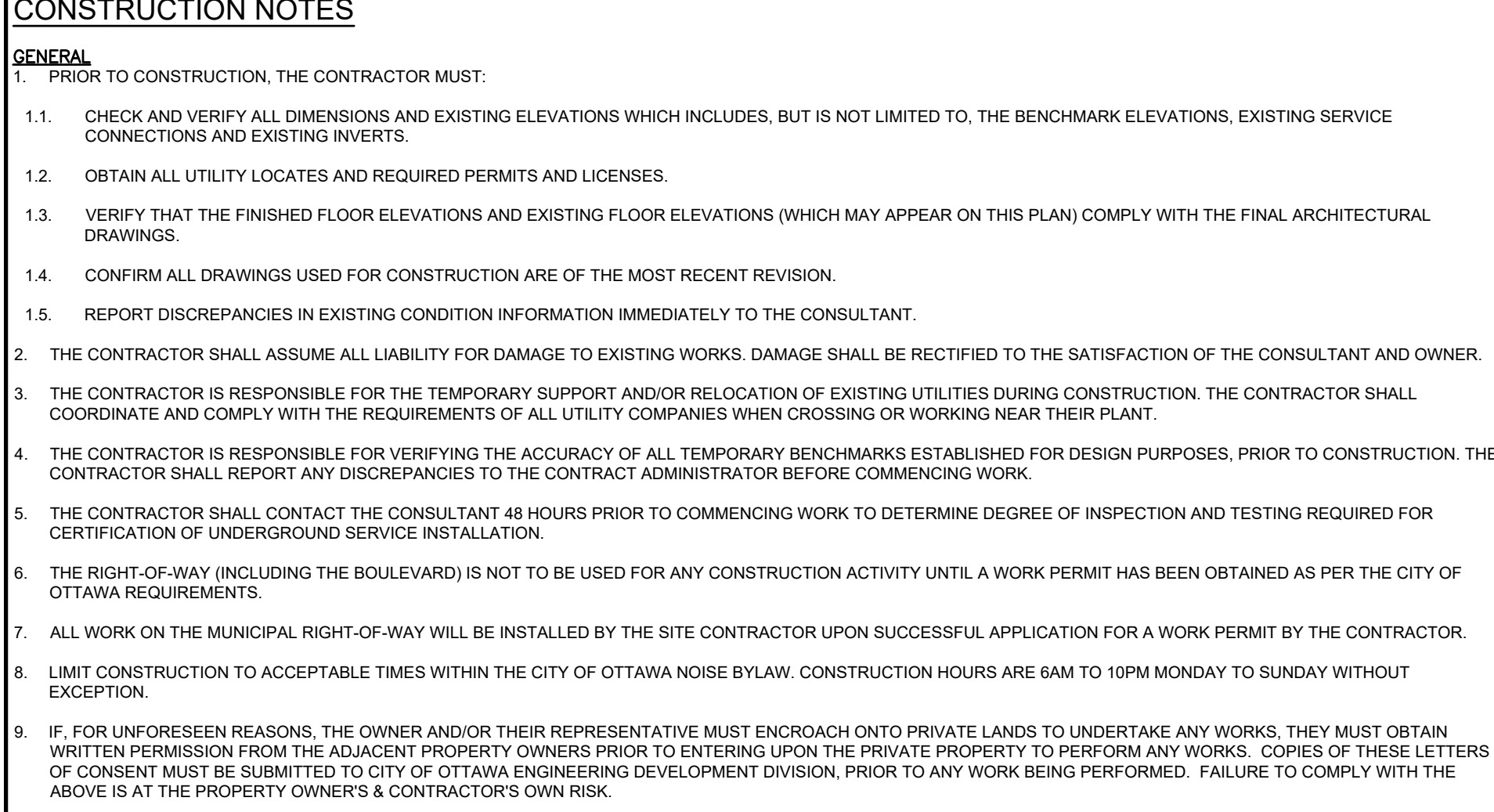
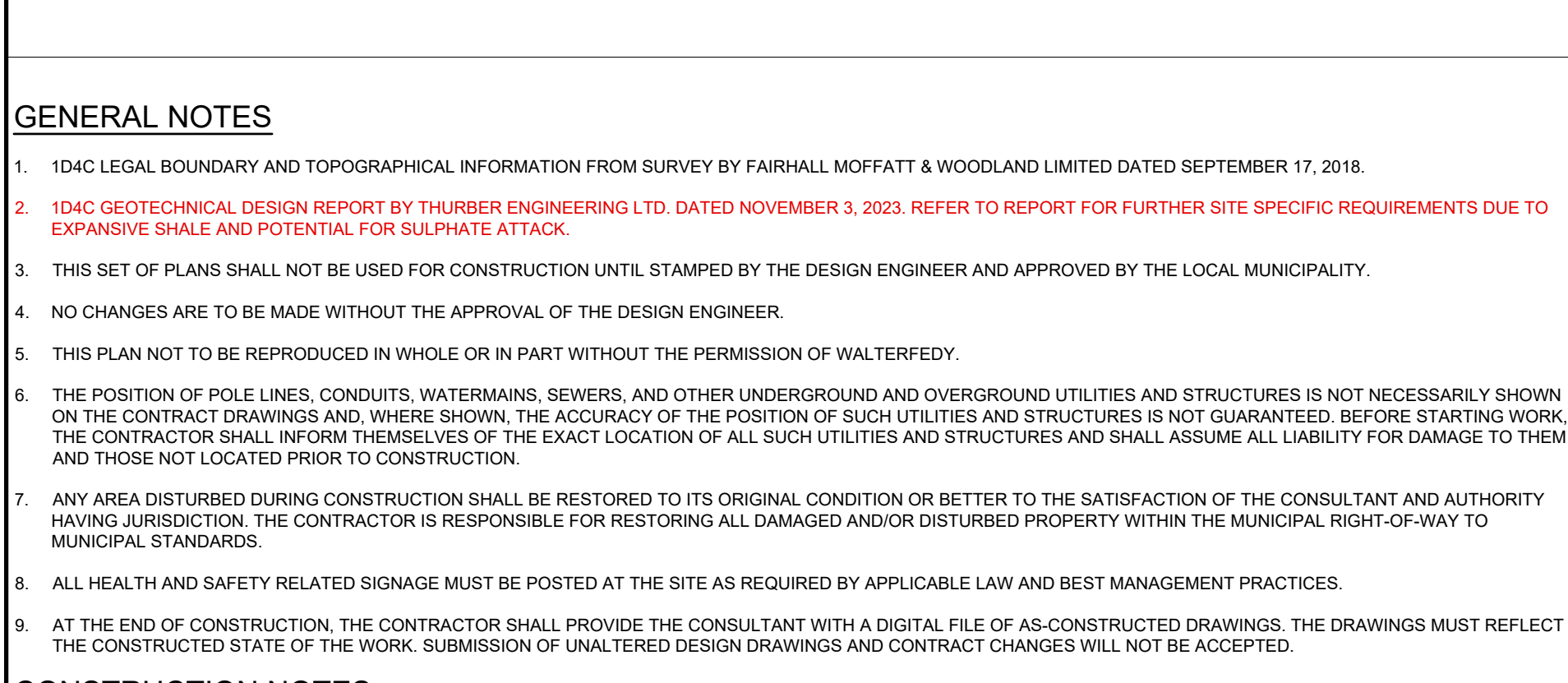
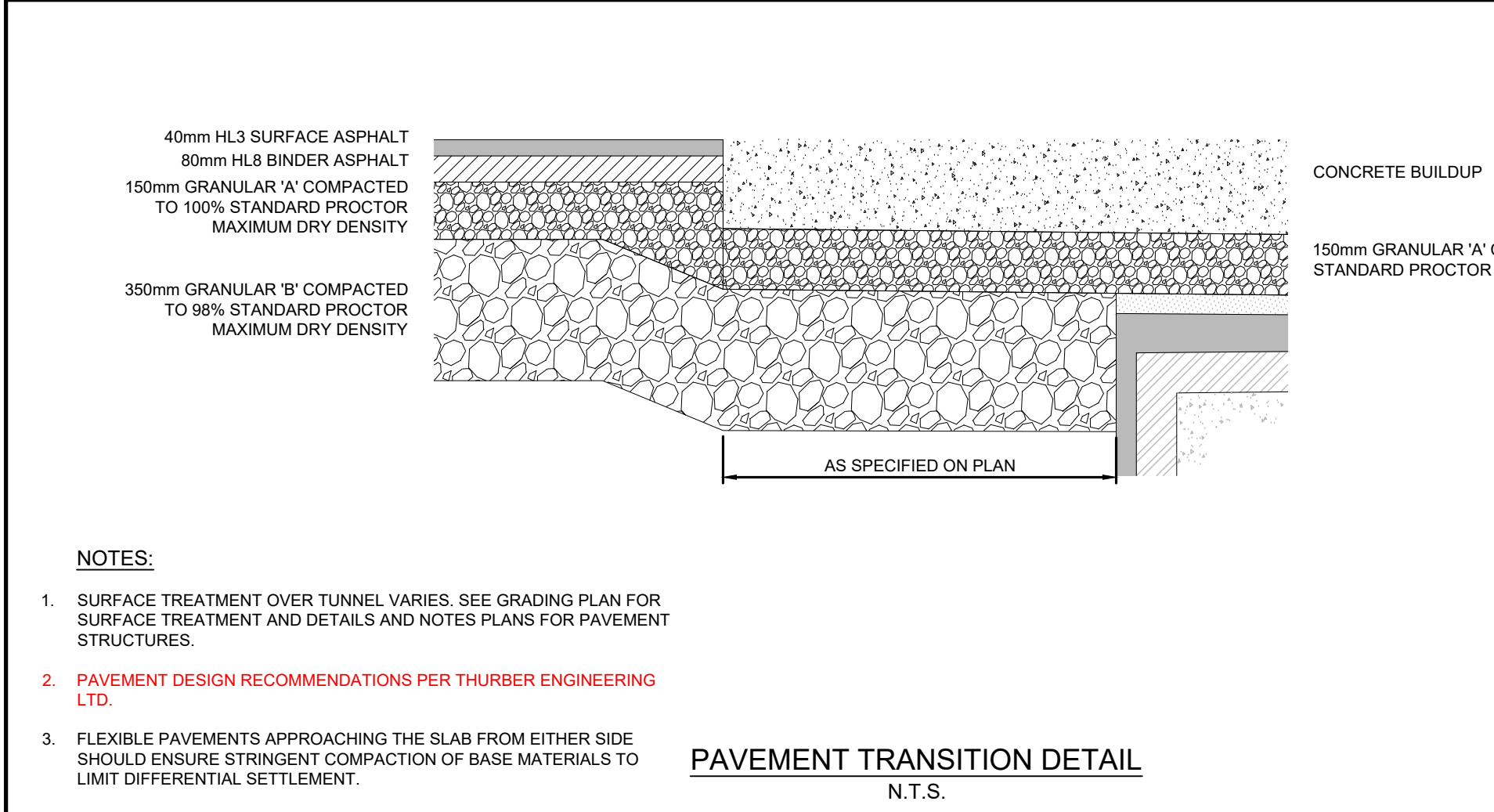
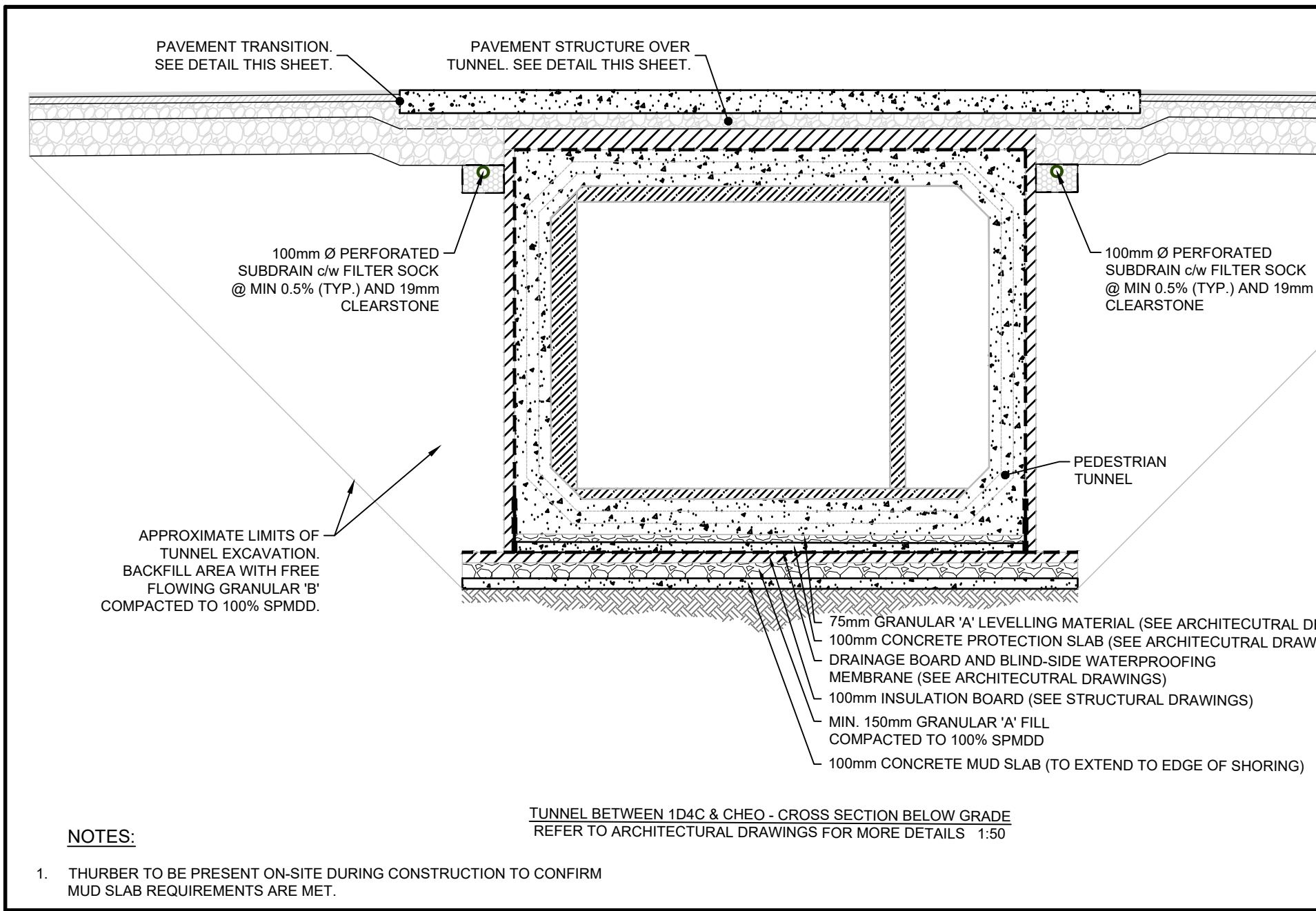
CLIENT
**CHEO INTEGRATED
TREATMENT CENTRE**
401 SMYTH RD. OTTAWA, ON K1M8L1

TITLE
EROSION AND SEDIMENT CONTROL

SCALE: 1:250
DRAWN BY: DL, TK, ZS
REVIEWED BY: SF
JOB NUMBER: 2021-0821-13
PLOT DATE: 2025-04-01
DRAWING NUMBER:

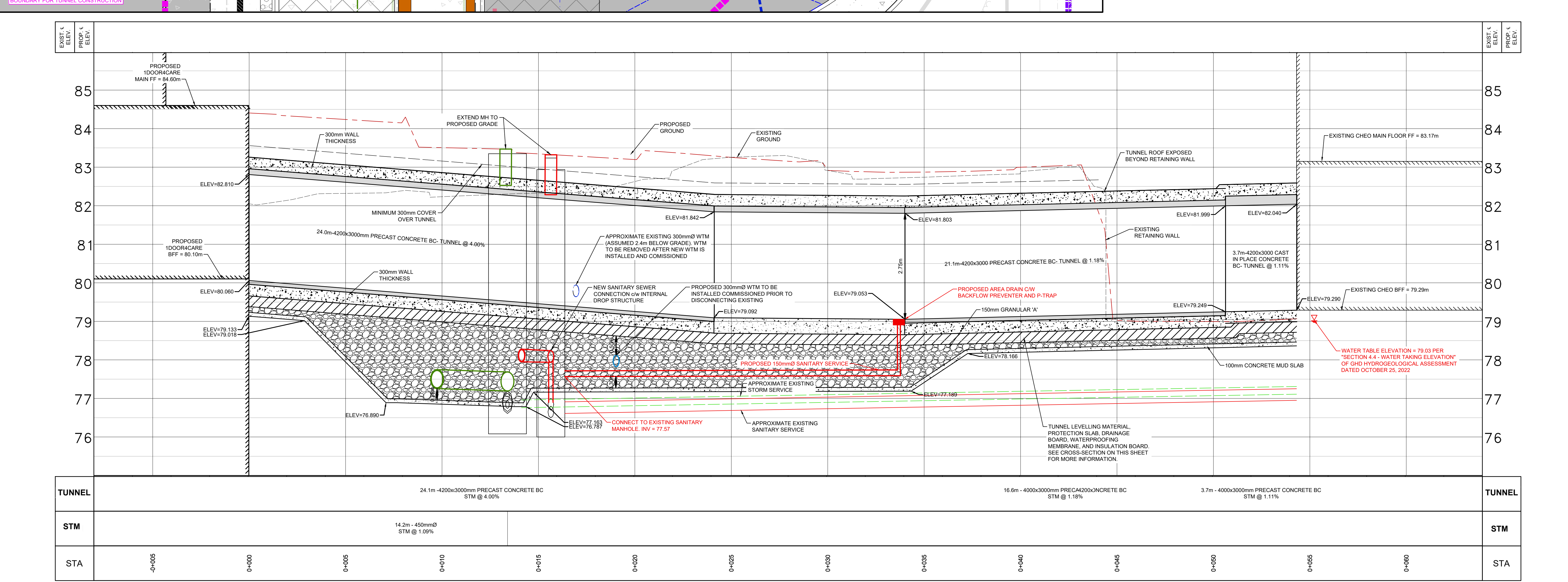
C1601
PLAN #: 19223
DEVELOPMENT #: D07-12-24-0121

P:\2021\0821-13\08-CHEO\TREATMENT CENTRE\2021-0821-13-ESC-PT-1\2021-0821-13-ESC-PT-1.dwg, 2025-04-01 11:58 AM



WATERMAIN SUMMARY TABLE				
DESCRIPTION	CHAINAGE (m)	OBVERT ELEVATION (m)	FINISHED GRADE (m)	DEPTH OF COVER (m)
MAIN SERVICE LINE				
CONNECTION TO EXISTING 45 DEGREE BEND #1	0+00.00	MATCH TO EXISTING (79.79+)	83.05	3.27
45 DEGREE BEND #2	0+002.87	78.12	83.07	4.95
45 DEGREE BEND #3	0+011.36	78.12	83.35	5.23
CONNECTION TO EXISTING 45 DEGREE BEND #4	0+014.16	MATCH TO EXISTING (79.79+)	83.45	3.67
* THERMAL INSULATION SHALL BE INSTALLED WHERE MINIMUM COVER OF 2.4m CANNOT BE ACHIEVED AS PER CITY STANDARDS W21, W22, AND W23				

1D4C TUNNEL



CLIENT: CHEO INTEGRATED TREATMENT CENTRE

401 SMYTH RD, OTTAWA, ON K1M1L1

TITLE: TUNNEL PROFILE

SCALE: H=1:100 V=1:50

DRAWN BY: DL, TK, ZS

REVIEWED BY: SF

JOB NUMBER: 2021-0821-13

PLUT DATE: 2025-04-01

DRAWING NUMBER: C3101

17 01/24/25 ISSUED FOR SPC RE-SUBMISSION

16 25/03/24 ISSUED FOR 100% CD SUBMISSION R1

15 25/03/24 ISSUED FOR 100% CD RE-SUBMISSION

14 25/01/10 ISSUED FOR 100% CD RE-SUBMISSION

13 24/12/09 ISSUED FOR SPC RE-SUBMISSION

12 24/11/27 ISSUED FOR 100% CD SUBMISSION

11 24/09/20 ISSUED FOR 100% CD SUBMISSION

10 24/08/23 ISSUED FOR BUILDING PERMIT

9 24/08/23 ISSUED FOR SITE PLAN CONTROL

8 24/08/07 ISSUED FOR 50% CD SUBMISSION

7 24/06/03 ISSUED FOR 100% CD SUBMISSION R2

6 24/05/10 ISSUED FOR FOUNDATION PERMIT

5 24/04/19 ISSUED FOR 100% CD SUBMISSION

4 24/01/24 RE-ISSUED FOR BUILDING PERMIT (TUNNEL)

3 23/12/20 ISSUED FOR BUILDING PERMIT (TUNNEL)

2 23/12/15 RE-ISSUED FOR 50% CD SUBMISSION

1 23/12/15 ISSUED FOR 50% CD SUBMISSION

DATE: 2025-03-31

REVISION: 1

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PLAN #: 19223

DEVELOPMENT #: D07-12-24-0121