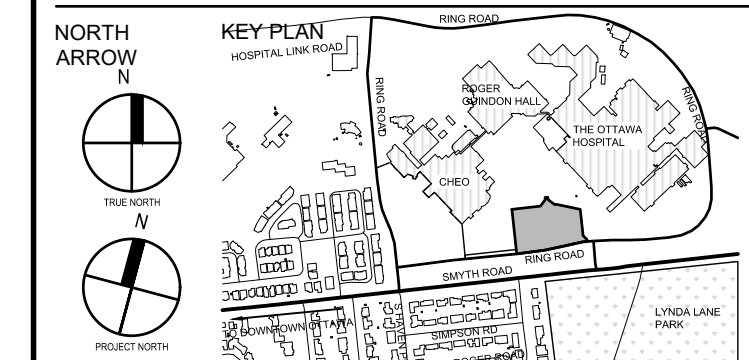


1Door4Care - CHEO Integrated Treatment Centre: Parking Garage

ISSUED FOR SPC SUBMISSION
2023-08-16

VOLUME 5 - CIVIL





SHEET LIST - CIVIL

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EROSION AND SEDIMENT CONTROL

CP0601 EROSION AND SEDIMENT CONTROL - PARKING GARAGE

PROPOSED GRADING PLANS

CP1101 PROPOSED GRADING PLAN - PARKING GARAGE

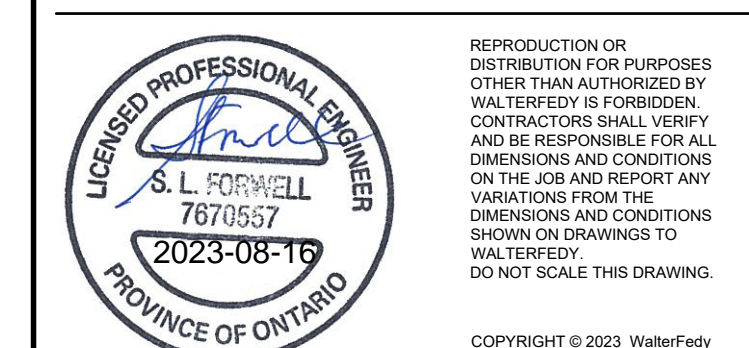
PROPOSED SERVICING PLANS

CP1201 PROPOSED SERVICING PLAN - PARKING GARAGE

SECTION VIEWS

2 2023-08-16 ISSUED FOR SPC SUBMISSION
1 2023-07-31 ISSUED FOR 50% DD SUBMISSION
0 2023-04-20 ISSUED FOR TECHNICAL SUBMISSION

| # | DATE | REVISION |
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CLIENT

1DOOR4CARE: CHEO INTEGRATED TREATMENT CENTRE: PARKING GARAGE

401 SMYTH RD. OTTAWA, ON K1H8L1

TITLE

SHEET LIST

SCALE:

DRAWN BY: DR,RS

REVIEWED BY: RK

JOB NUMBER: 2021-0821-10

PLOT DATE: 2023.08.16

DRAWING NUMBER

C0001

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GENERAL NOTES

- 1. PARKING GARAGE LEGAL BOUNDARY AND TOPOGRAPHICAL INFORMATION FROM SURVEY BY ANIS, O'SULLIVAN, VOLLEBEEK LTD. DATED MAY 7, 2021.
2. ISADLE LAKE BOUNDARY AND TOPOGRAPHICAL INFORMATION FROM SURVEY BY FARRALL MOFFATT & WOODLAND LIMITED DATED SEPTEMBER 17, 2016.
3. THIS SET OF PLANS SHALL NOT BE USED FOR CONSTRUCTION UNTIL STAMPED BY THE DESIGN ENGINEER AND APPROVED BY THE LOCAL MUNICIPALITY.
4. 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.
5. THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS, AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT GUARANTEED BEFORE STARTING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING 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.
6. 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 REMOVED PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY TO MUNICIPAL STANDARDS.
7. ALL HEALTH AND SAFETY RELATED SIGNAGE MUST BE POSTED AT THE SITE AS REQUIRED BY APPLICABLE LAW AND BEST MANAGEMENT PRACTICES.
8. 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.
EROSION CONTROL NOTES
1. ALL EROSION CONTROL FENCING, TEMPORARY FILTRATION, AND MUD MATS MUST BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CONSULTANT PRIOR TO COMMENCEMENT OF ANY AREA GRADING, EXCAVATION, OR DEMOLITION. THE CONTRACTOR TO NOTIFY CONSULTANT FOR INSPECTION.
2. ATTACH EROSION CONTROL FENCE TO EXISTING CHAINLINK FENCE WITHIN THE LIMITS OF THE SITE WHERE POSSIBLE.
3. EROSION CONTROL FENCING TO BE PLACED AROUND THE BASE OF ALL STOCKPILES. ALL STOCKPILES TO BE KEPT A MINIMUM OF 2.5m FROM PROPERTY LINES.
4. FILTER FABRIC TO BE TERRAFIX 270R OR APPROVED EQUIVALENT.
5. MUD MATS TO BE PROVIDED ON SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES ARE TO TRAVEL. MUD MATS SHALL BE SUPPLIED AS INSTALLED PER THE DETAIL ON SHEET 04. CONTRACTOR TO MAINTAIN AND LEAVE THE SITE EFFECTIVE AT ALL TIMES.
6. ALL DITCH INLET CATCHBASINS, CATCHBASINS AND CATCHBASIN MANHOLES TO HAVE TEMPORARY FILTRATION INSTALLED AND MAINTAINED AS PER THE DETAIL ON SHEET 04.
7. NO ALTERNATE METHODS OF EROSION CONTROL PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY CONSULTANT AND THE AUTHORITY HAVING JURISDICTION.
8. ALL EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RE-STABILIZED EITHER BY PAVING OR RESTORATION WITH VEGETATIVE GROUND COVER.
9. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SIGNMENTS FROM THE PUBLIC ROADWAY AND SIDEWAYS AT THE END OF EACH WORK DAY AS DIRECTED BY THE CONSULTANT.
10. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED BY THE CONTRACTOR AFTER MAJOR RAINFALL EVENTS AND CLEANED OR REPLACED AS REQUIRED TO MEET THE REQUIREMENTS. SIGNMENTS TO BE REMOVED WHEN ACCUMULATORS REACH A MAXIMUM OF ONE THIRD (1/3) OF THE STRUCTURE CAPACITY.
11. THE CONSULTANT SHALL MONITOR SITE DEVELOPMENT TO ENSURE ALL EROSION CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO CITY OF OTTAWA REQUIREMENTS. CONTRACTOR TO COMPLY WITH THE CONSULTANTS INSTRUCTIONS TO INSTALL, MODIFY, OR MAINTAIN EROSION CONTROL WORKS.
12. THIS PLAN TO BE READ IN CONJUNCTION WITH THE EXISTING CONDITIONS PLAN, SITE SERVING PLAN, STORM WATER MANAGEMENT PLAN, LANDSCAPING PLAN, AND THE STORM WATER MANAGEMENT REPORT DATED AUGUST 2021.
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 LANDSCAPING SHALL BECOME THE PROPERTY OF THE OWNER AND BE REMOVED FROM THE SITE AS DIRECTED BY THE CONSULTANT. THE COSTS OF ALL SUCH MATERIAL DISPOSAL SHALL BE BORNE BY THE CONTRACTOR UNLESS A SPECIFIC PROVISION IS MADE IN THE CONTRACT DOCUMENTS FOR PAYMENT FROM A SOURCE OF A SURPLUS MATERIAL.
4. MATERIAL TO BE REMOVED SHALL BE NEARLY SAW CUT ALONG ITS LIMITS, IN ADVANCE OF THE REMOVAL. THE LIMITS OF REMOVAL SHALL AS NOTED ON THE PLANS UNLESS AN EXTENSION TO THE MATERIALS TO BE REMOVED IS APPROVED IN ADVANCE BY THE CONSULTANT. AS SUCH, THE COSTS OF ANY SUCH EXTENSION TO THE MATERIALS TO BE REMOVED SHALL BE BORNE BY THE CONTRACTOR. THIS RESPONSIBILITY SHALL ALSO EXTEND TO RESTORATION OR REPLACEMENT OF DISTURBED FEATURES AND SURFACES DUE TO UNAUTHORIZED EXCAVATION.
5. ALL FILL PLACED ON SITE SHALL BE COMPACTED TO A MINIMUM 95% SPRING UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL ENGINEER OR AS NOTED ON DRAWINGS AND IN THE SPECIFICATIONS). ALL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING 300mm EXCEPT WHERE UNDER PAVING, AND WALKS WHEN LAYERS SHALL BE 150mm MAX.
6. MAXIMUM SLOPE IN GRASSED AREAS TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER. MINIMUM SLOPE IN GRASSED AREAS TO BE 1% GRASS SWALES WITH A SLOPE LESS THAN 1% TO BE UNDESIRABLE WITH A FRENCH DRAIN.
7. FINISH GRADE AT FOUNDATION WALLS TO BE MINIMUM 150mm BELOW THE TOP OF FOUNDATION WALL BRICK LINE UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
8. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE ON ALL SURFACES TO THE APPROPRIATE OUTLET STRUCTURES THROUGHOUT THE PROJECT. ANY CONSTRUCTION ERROR WILL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CONSULTANT AT THE CONTRACTORS EXPENSE.
9. 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 DEPTH LEVEL AS THE GEOTECHNICAL ENGINEER MAY REQUIRE UNTIL A SATISFACTORY BEARING STRATUM IS REACHED.
10. THIS CONTRACTOR SHALL BE PAID THE COST OF SUCH EXTRA EXCAVATION AT THE UNIT PRICE ESTABLISHED IN THE CONTRACT.
11. ALL EXTRA DEPTHS OF EXCAVATION AND FILLING MUST HAVE THEIR AREA AND VOLUME DOCUMENTED BY AN INDEPENDENT INSPECTION AND TESTING COMPANY OR THE CONSULTANT TO QUALIFY FOR PAYMENT.
12. 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. 909 PIPE BEDDING CLASS B AS PER OPS 803.00 (EARTH EXCAVATION, TYPE 1 OR 2 SOIL), OPS 802.03 (EARTH EXCAVATION, TYPE 3 SOIL), OPS 802.02 (EARTH EXCAVATION, TYPE 4 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 95% STANDARD PROCTOR MAXIMUM DRY DENSITY IN LAYERS NOT OVER 300mm DEPTH EXCEPT WHERE UNDER PAVING, AND WALKS WHEN 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 SPIGOT PIPE IS LAID, THE BELL END OF THE PIPE SHALL BE LAID UPRIDE.
7. PIPE SHALL BE KEPT CLEAN AND DRY AS WORK PROGRESSES. THE TRENCH SHALL BE KEPT DRY.
8. A REMOVABLE WATERTIGHT BULKHEAD SHALL BE INSTALLED ONLY AT THE OPEN END OF THE LAST PIPE Laid.
9. PIPE SHALL NOT BE Laid 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 CASSETS. ALL CASSETS TO BE LIBERATED PRIOR TO BEING INSTALLED OR AS RECOMMENDED BY THE PIPE MANUFACTURER.
11. A TEMPORARY LOCATION MARKER 300mm SHALL BE PLACED AT THE END OF ALL CAPTED SERVICE CONNECTIONS. THE MARKER SHALL BE PLACED 200mm ABOVE THE PLUGGED END OF THE SERVICE PIPE, CUT AT LEAST 500mm ABOVE THE FINISHED GRADE, AND MARKED WITH BRIGHT PAINT.
12. ALL MANHOLES, BASINS, CHAMBERS ETC. TO BE INSTALLED LEVEL AND PLUMB TO THE SATISFACTION OF THE CONSULTANT.
13. ALL MECHANICAL JOINT RESTRAINTS TO BE WRAPPED WITH APPROVED PETROLEUM TAPE SYSTEM.
14. PROVIDE ADEQUATE SUMP BELOW CONNECTION, AND PUMPING IF REQUIRED, TO PREVENT CONTAMINATION OF NEW WATERMANS WITH TRENCH GROUND WATER OR ANY OTHER FOREIGN MATTER.
15. ALL WATERMANS AND SERVICE COMMISSIONING, PRESSURE/LEAKAGE TESTING, DISINFECTION, BACTERIOLOGICAL ANALYSIS AND FLUSHING TO BE SUCCESSFULLY COMPLETED BY THE CONTRACTOR AND ACCEPTED BY THE CITY OF OTTAWA, AND THE CONSULTANT PRIOR TO PERMANENT CONNECTION TO WATER DISTRIBUTION SYSTEM. REFER TO CONTRACT SPECIFICATIONS FOR REQUIREMENTS.
16. CONTRACTOR TO SUBMIT A WATERMAN COMMISSIONING PLAN TO THE CITY OF OTTAWA AND CONSULTANT AT LEAST TWO WEEKS PRIOR TO CHLORINE RESIDUAL & BACTERIOLOGICAL TESTING.
CONSTRUCTION NOTES
GENERAL
PROVIDE CONSTRUCTION, THE CONTRACTOR MUST:
1. CHECK AND VERIFY ALL DIMENSIONS AND EXISTING ELEVATIONS WHICH INCLUDES, BUT IS NOT LIMITED TO, THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS.
2. OBTAIN ALL UTILITY LOCATES AND REQUIRE PERMITS AND LICENSES.
3. VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND EXISTING FLOOR ELEVATIONS (WHICH MAY APPEAR ON THIS PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
4. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
5. REPORT DISCREPANCIES IN EXISTING CONDITION INFORMATION IMMEDIATELY TO THE CONSULTANT.
6. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR DAMAGE TO EXISTING WORKS. DAMAGE SHALL BE RECTIFIED TO THE SATISFACTION OF THE CONSULTANT AND OWNER.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY SUPPORT AND/OR RELOCATION OF EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE AND COMPLY WITH THE REQUIREMENTS OF ALL UTILITY COMPANIES WHEN CROSSING OR WORKING NEAR THEIR PLANT.
8. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL

- TEMPORARY BENCHMARKS ESTABLISHED FOR DESIGN PURPOSES, PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE COMMENCING WORK.
1. THE CONTRACTOR SHALL COMPLY WITH CITY OF OTTAWA MS-225 REQUIREMENTS.
2. THE SITE SERVICING CONTRACTOR SHALL PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. SPECIFICALLY, THE LEAKAGE TESTING SHALL BE IN ACCORDANCE WITH OPS 180. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS TO THE CITY OF OTTAWA. CONTRACTOR TO COMPLETE TESTING ON SITE.
3. POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS: SMOOTH PROFILES TO OPS 184 AND CSA B25.1, WITH SEPARATE GASKET AND INTEGRAL BELL SYSTEM, 8 mm NOMINAL LENGTHS AS FOLLOWS:
200mm DR AND LARGER: 500S PVC WITH 300 kPa STIFFNESS.
SUBSURFACE DRAMMAGE PIPE AND FITTINGS, TO OPS 400, REFORCED PVC PIPE TO OPS 184 OR PVC TO OPS 180. MAX. TO CANADIAN (M.C.I.) COMPLETE WITH KNITTED SOFT GEOTEXTILE AS REQUIRED (TERRAFIX 270R OR EQUIVALENT).
4. MANHOLES AND CATCHBASIN MANHOLES TO BE PRECAST 1200mm DIAMETER WITH A MINIMUM SPACING AT 300mm SPACING AS PER OPS 180 (300 SPECIFIC OTHERWISE).
5. CATCHBASINS TO BE 800mm x 800mm PRECAST AS PER OPS 180. DOUBLE CATCHBASINS TO BE 800x 450mm PRECAST AS PER OPS 180.200.
6. CATCHBASIN MANHOLES, CATCHBASINS, AND DOUBLE CATCHBASINS TO HAVE A MINIMUM 300mm DEEP SUMP.
7. STORM MANHOLES TO HAVE MINIMUM 300mm DEEP SUMP.
8. MANHOLE AND CATCHBASIN FRAMES, GRATES, CASTINGS, LIDS TO BE AS PER OPS 180.
9. CAST IRON FRAMES AND COVERS OR GRATES- STORM SEWERS: TO OPS 180 AND OPS 400.100, OPS 401 (18, 0P/EN).
10. CAST IRON FRAMES AND COVERS OR GRATES- SANITARY SEWERS: TO OPS 180, OPS 401.010 (A, C) CLOSED).
11. ALL SANITARY MANHOLES LOCATED IN STORM WATER PONDING AREAS TO HAVE WATERTIGHT FRAME AND COVERS AS PER OPS 400-320.
12. STORM SENSERS 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.
13. SANITARY SEWERS AND SERVICES TO HAVE A 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.
14. ALL PIPES TO BE INSTALLED FLUSH WITH THE INSIDE WALLS OF THE STRUCTURE AND PARDED TO A SMOOTH FINISH.
15. ALL SANITARY MANHOLES TO BE PRE-RENCHED OR BENDED WITH 10MPa CONCRETE AS PER OPS 102.01. BENCHING SHALL EXTEND TO THE SPRING LINE OF LARGEST PIPE IN THE MANHOLE AND SHALL HAVE A SLOPE OF 1:8.
16. CONTRACTOR TO SUPPLY AND PAY FOR CCTV INSPECTION OF ALL SEWER LINES AND STRUCTURES.
17. 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.
18. IF CCTV INSPECTIONS SHOW ADDITIONAL CLEANING IS REQUIRED, CLEAN AND RE-INSPECT THE SEWER UNTIL ACCEPTED BY THE CONSULTANT.
19. 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 200mm. THE FIRST ADJUSTMENT UNIT SHALL BE Laid IN A FULL BED OF WORTER AND ALIGNED WITH THE OPENING IN THE STRUCTURE. SUCCESSIVE ADJUSTMENT UNITS SHALL BE Laid PLUMB TO THE FIRST ADJUSTMENT UNIT AND BE Laid ACCORDING TO MANUFACTURERS RECOMMENDATIONS. FRAMES WITH GRATES OR COVERS SHALL BE SET IN A FULL BED OF MORTAR ON THE ADJACENT UNITS AND SUPPORTED USING SHIMS, SKIMS, STONES AND DERISIL WILL NOT BE PERMITTED FOR USE AS SHIMS.
20. ALL GRANULAR BASE, SUBBASE, SUBGRADE AND BACKFILL TO BE PROVIDED AS PER OPS MSUM 1010 AND INSTALLED AS PER OPS MSUM 314.
21. COARSE GRANULAR FILL MATERIAL AS SPECIFIED BELOW, COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY, UNLESS SPECIFIED OTHERWISE IN LETS NOT EXCEEDING 300mm IN COMPACTED THICKNESS. MOISTURE CONTENT WITHIN PIPES OR MMSUS 2% OF THE REQUIREMENTS OF ASTM D688.
22. GRANULAR 'B' TYPE 2 TO OPS MUM 1010.
23. FINE GRANULAR FILL MATERIAL AS SPECIFIED BELOW, COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY, UNLESS SPECIFIED OTHERWISE IN LETS NOT EXCEEDING 150mm IN COMPACTED THICKNESS. MOISTURE CONTENT WITHIN PIPES OR MMSUS 2% OF THE REQUIREMENTS OF ASTM D688.
24. GRANULAR 'A' TO OPS MUM 1010.
25. BACKFILLING
1. IN ACCORDANCE WITH THE CITY OF OTTAWA SITE ALTERATION BY-LAW, NO FILLING, RE-GRADING OR TREE REMOVAL SHALL OCCUR, IN ADVANCE OF THE FINAL SITE PLAN ENGINEERING ACCEPTANCE, WITHOUT PERMIT. SHOULD THE DEVELOPER OR CONTRACTOR WISH TO PREPARE THE SITE FOR CONSTRUCTION PRIOR TO ENGINEERING ACCEPTANCE, AN APPLICATION FOR A SITE ALTERATION PERMIT MUST BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEERING AND CONSTRUCTION DIVISION FOR REVIEW AND APPROVAL.
2. ANY AREAS WHICH REQUIRE FILL IN EXCESS OF 0.30m ARE SUBJECT TO COMPARISON TESTS AND SUCH TESTS MUST SHOW A MINIMUM COMPACTION OF 95% BRIND AT ALL DEPTHS.
3. RETAINING WALLS TO BE DESIGNED BY OTHERS, THE CONTRACTOR SHALL SUBMIT GENERAL LINED ACCORDING TO THE CONSULTANT'S REQUIREMENTS. A PROFESSIONAL ENGINEER CERTIFIED IN THE PROVINCE OF ONTARIO TO BE CONSULTANT MUST VERIFY THE DESIGN AND PROVIDE A CERTIFICATE OF COMPLETION COMPLETED BY THE RETAINING WALL DESIGN ENGINEER BEFORE ACCEPTANCE OF THE WORK.
TOPOTOLOGY
1. TOPSOIL TO BE PROVIDED AND INSTALLED AS PER OPS 802. SOO TO BE PROVIDED AND INSTALLED AS PER OPS 803.
PAVEMENT MARKINGS & SIGNS
1. PAVEMENT MARKINGS TO BE Laid OUT AS PER THE DRAWINGS AND CONTRACTOR TO CONTACT CONSULTANT TO REVIEW LAYOUT PRIOR TO PAINTING ALL PAINT LINES AND MARKINGS TO CONFORM TO THE REQUIREMENTS OF THE MINISTRY OF TRANSPORTATION ONTARIO OR U.S. FEDERAL HIGHWAY 33638.
2. PAVEMENT MARKINGS TO BE:
2.1. THERMOPLASTIC PAVEMENT MARKING MATERIAL TO CONFORM TO OPS 1713 AND APPLIED AS PER OPS 710.
2.1.1. WHITE - CGSB 1-CP-12C WHITE 513-301.
2.1.2. YELLOW - SHALL MATCH EITHER THE YELLOW COLOUR CHIP OF THE MINISTRY OF TRANSPORTATION ONTARIO OR U.S. FEDERAL HIGHWAY 33638.
3. ALL EXISTING SIGNS, MAIL BOXES, POSTS, ETC., WHICH MUST BE REMOVED TO ACCOMMODATE CONSTRUCTION SHALL BE SALVAGED AND RENEWED AS DIRECTED BY THE CONTRACT ADMINISTRATOR. IN EQUAL OR BETTER CONDITION, THE CONTRACTOR SHALL MAKE GOOD ANY DAMAGE CAUSED TO SUCH FACILITIES AT HIS OWN EXPENSE. ALL EXISTING TRAFFIC CONTROL SIGNS MUST BE RESTORED BY THE END OF EACH WORKING DAY. EXISTING STOP CONTROL SIGNS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION TO THE SATISFACTION OF THE ROAD AUTHORITY AND THE CONTRACT ADMINISTRATOR.

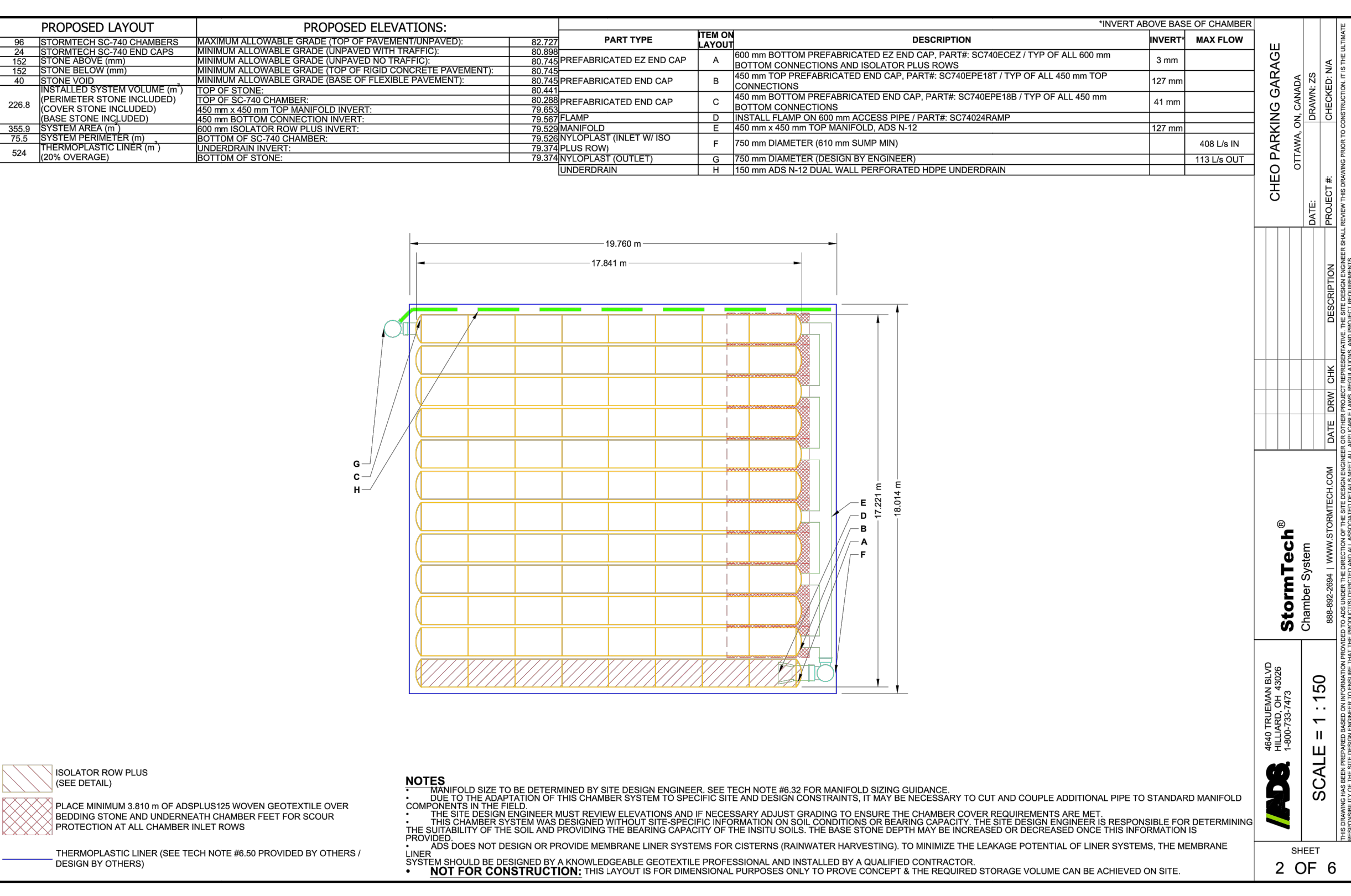


Table with 4 columns: MATERIAL LOCATION, DESCRIPTION, ASHFTO MATERIAL CLASSIFICATIONS, and COMPACTION / DENSITY REQUIREMENTS. It lists various fill materials like granular fill, concrete, and stone with their respective specifications and compaction requirements.

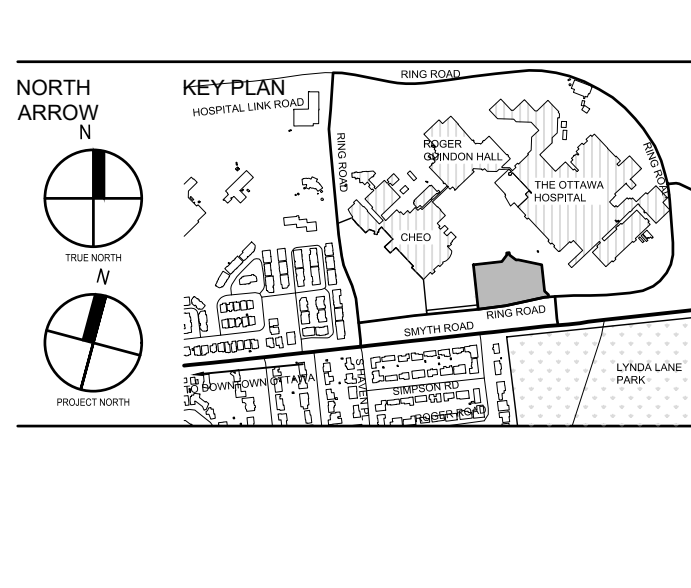
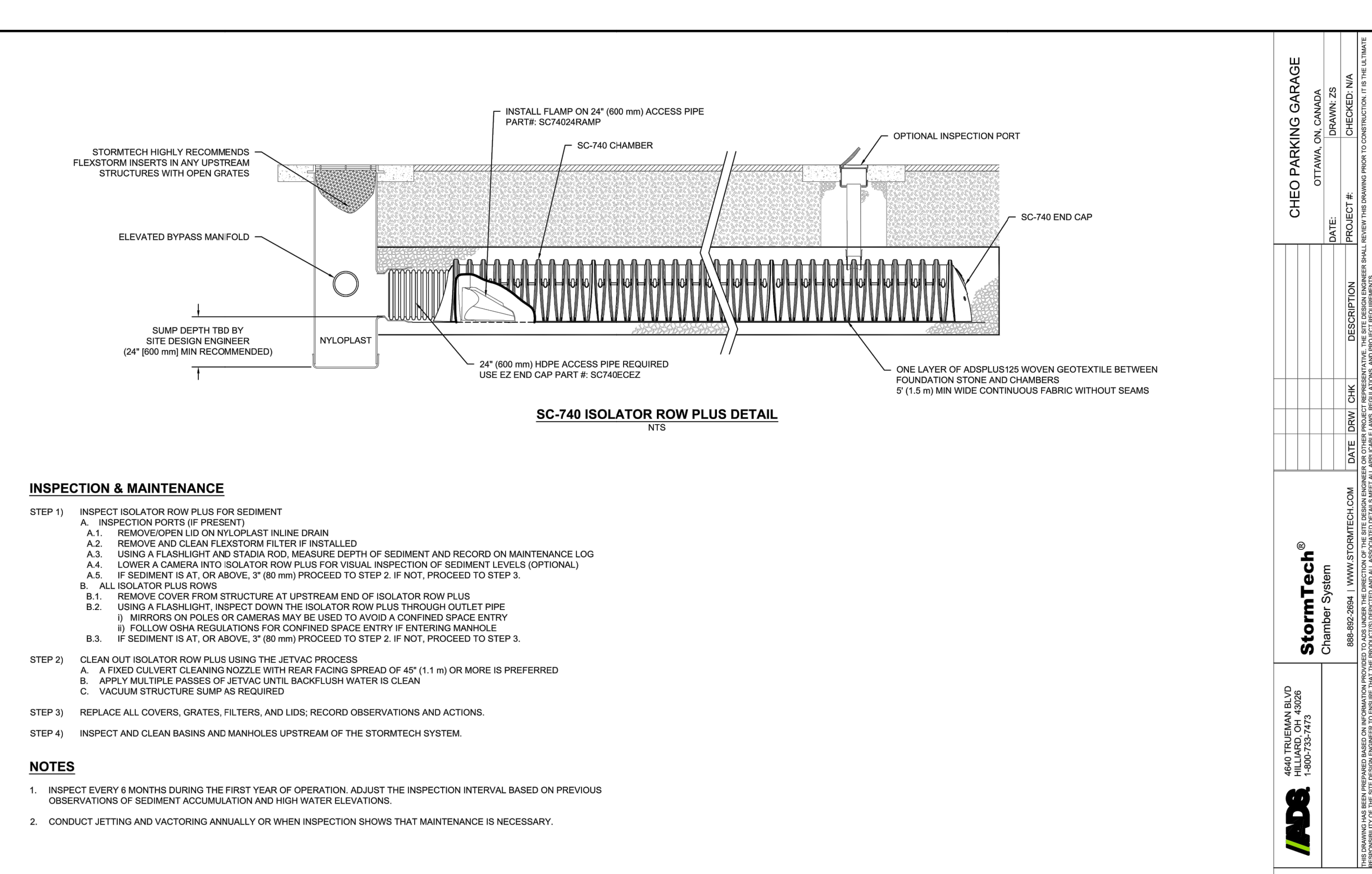
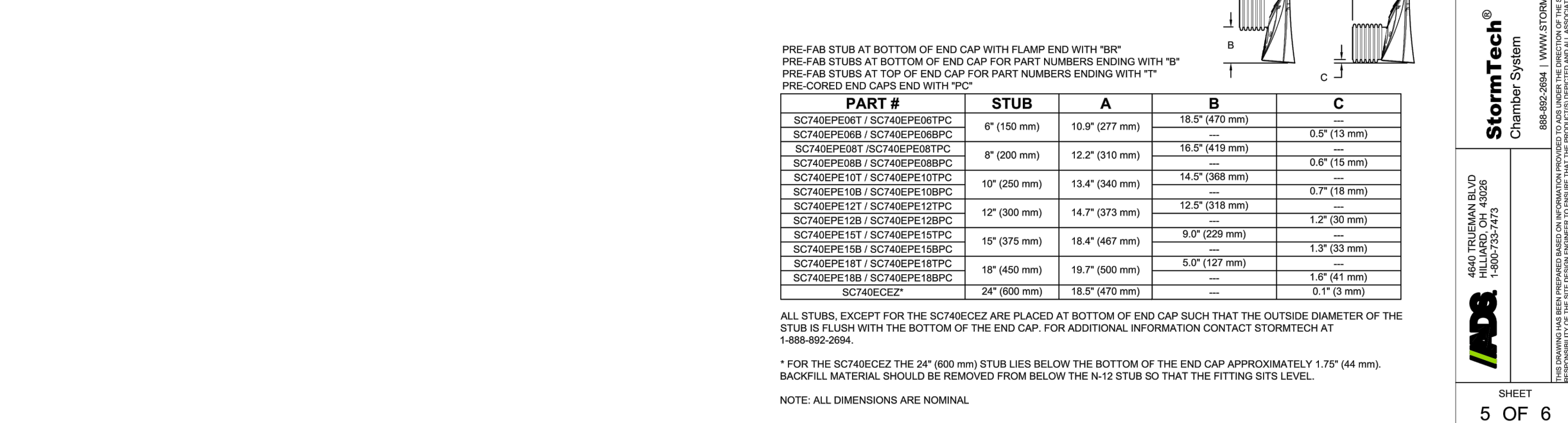
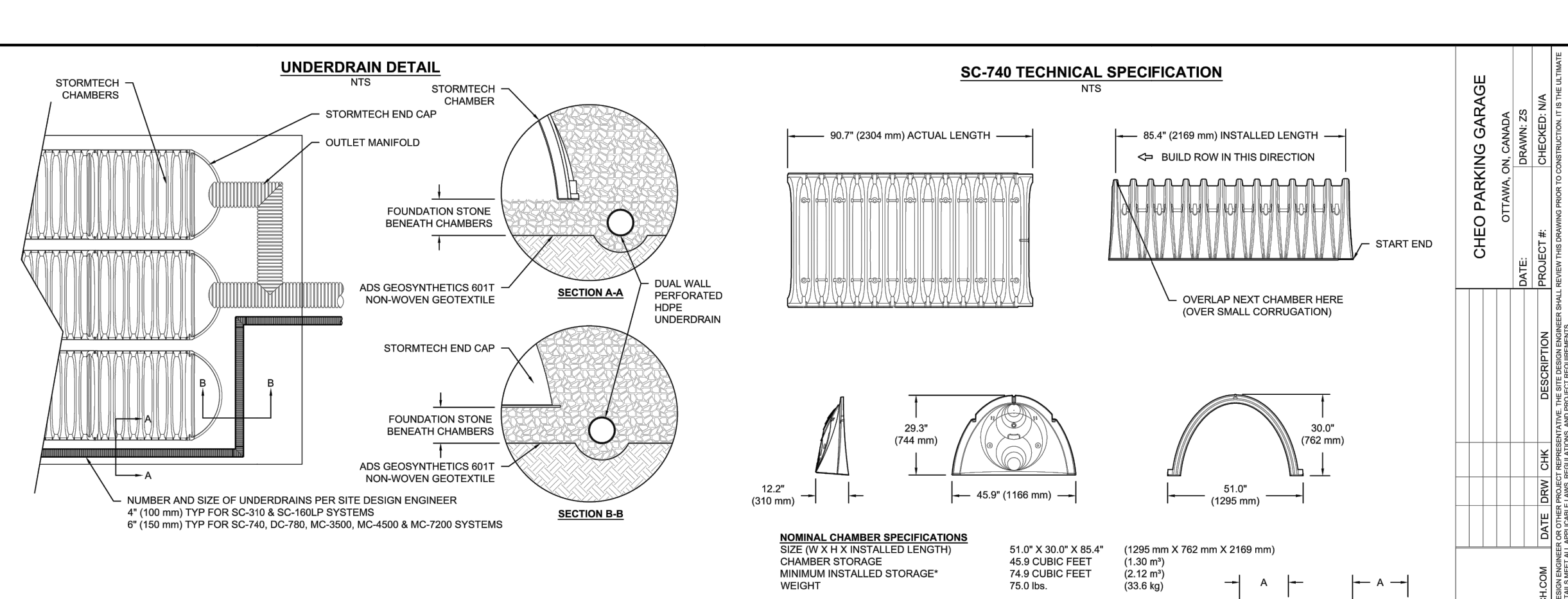
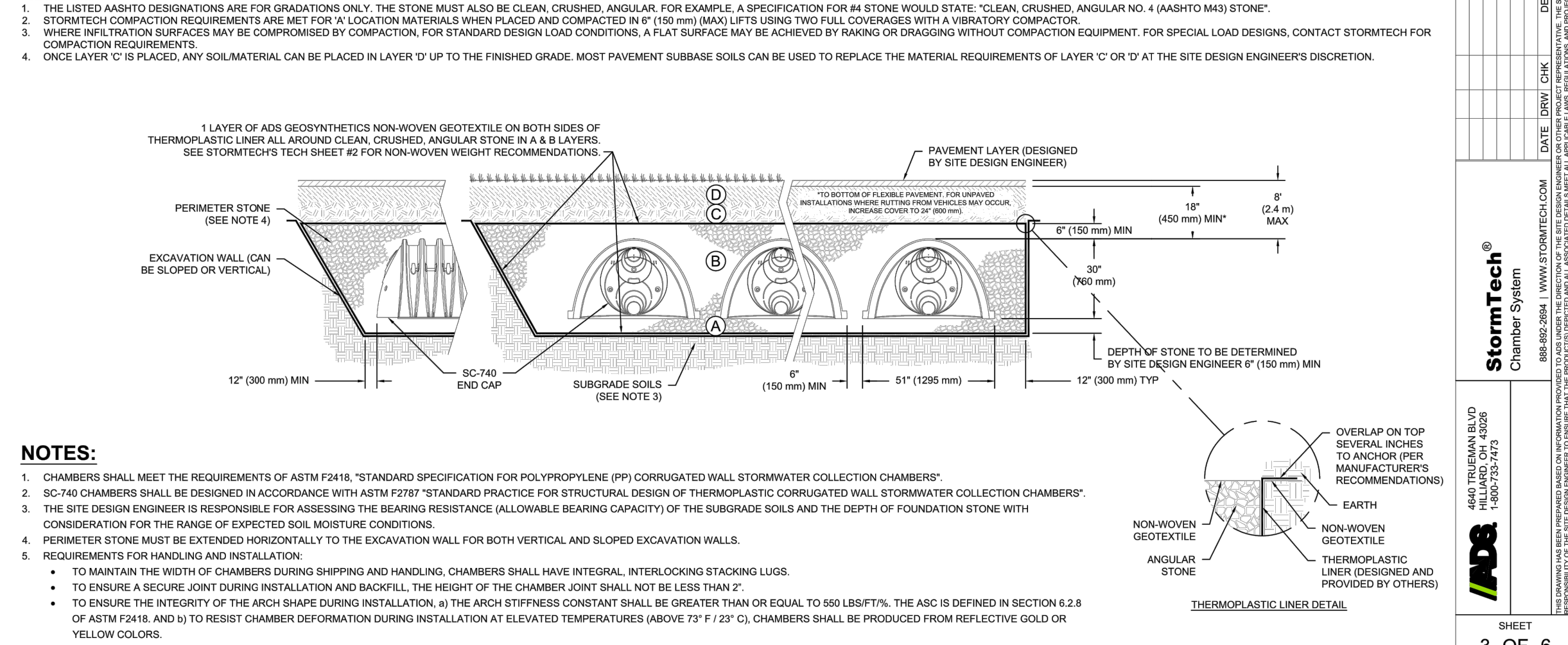
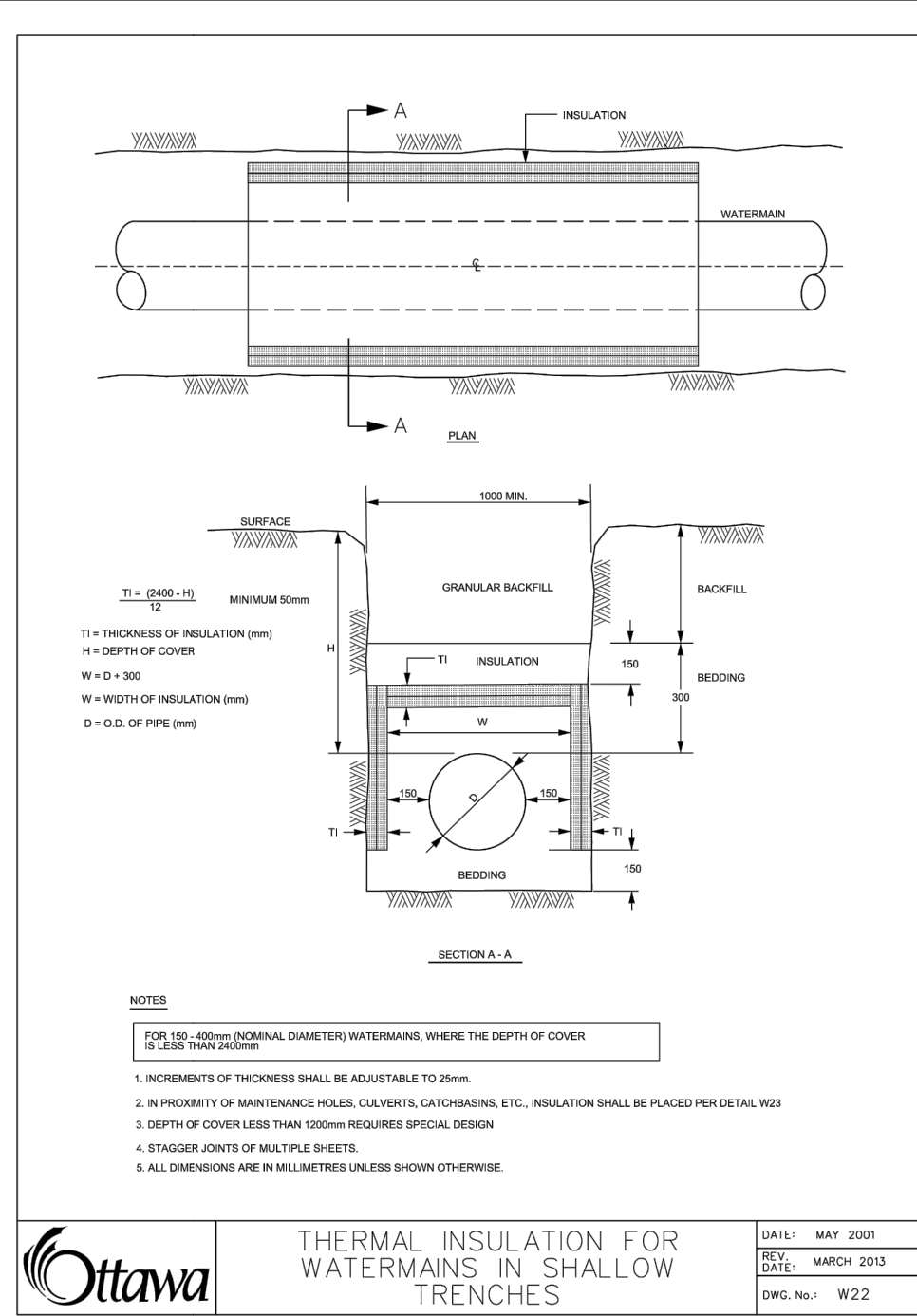
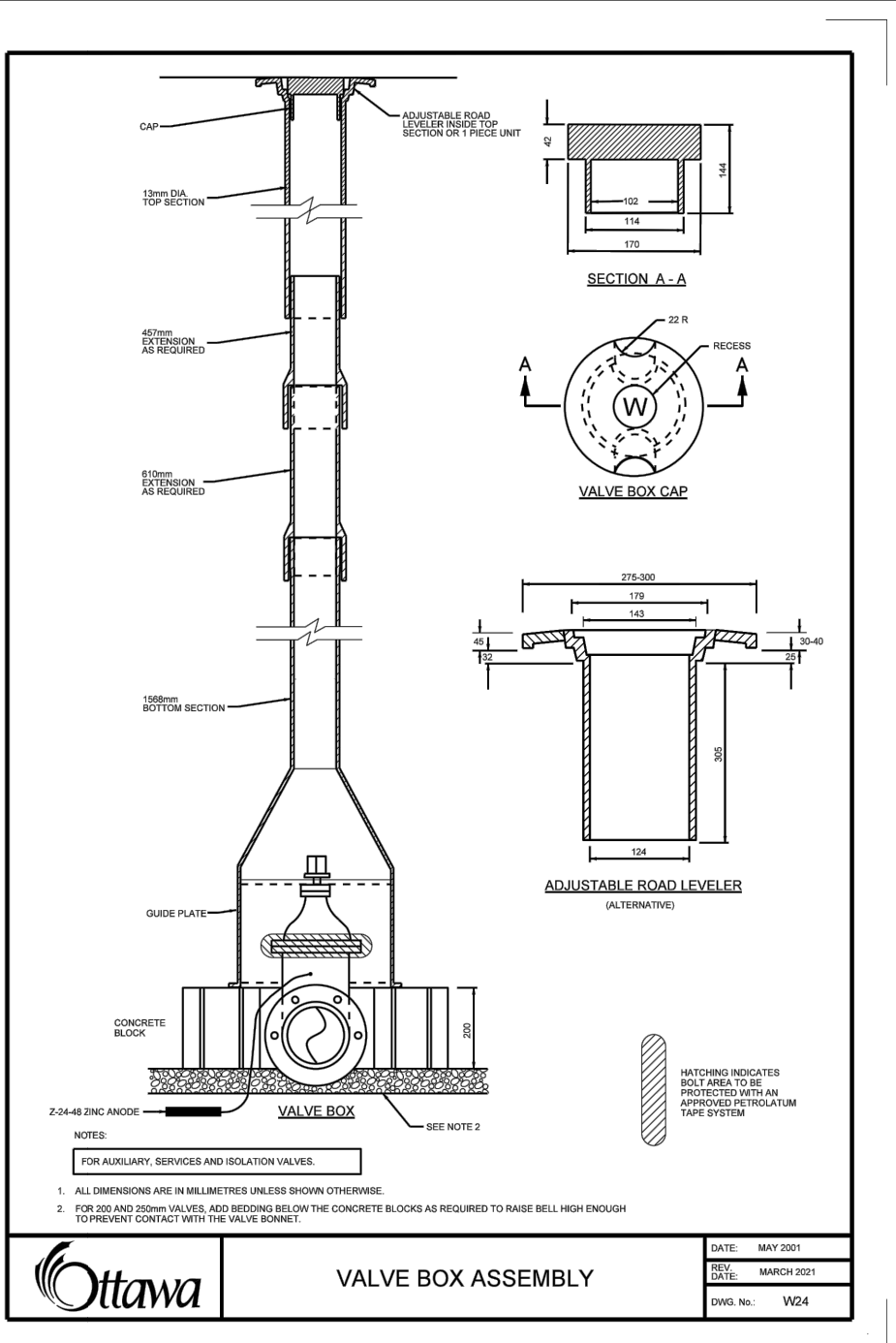


Table with 4 columns: MATERIAL LOCATION, DESCRIPTION, ASHFTO MATERIAL CLASSIFICATIONS, and COMPACTION / DENSITY REQUIREMENTS. It lists various fill materials like granular fill, concrete, and stone with their respective specifications and compaction requirements.

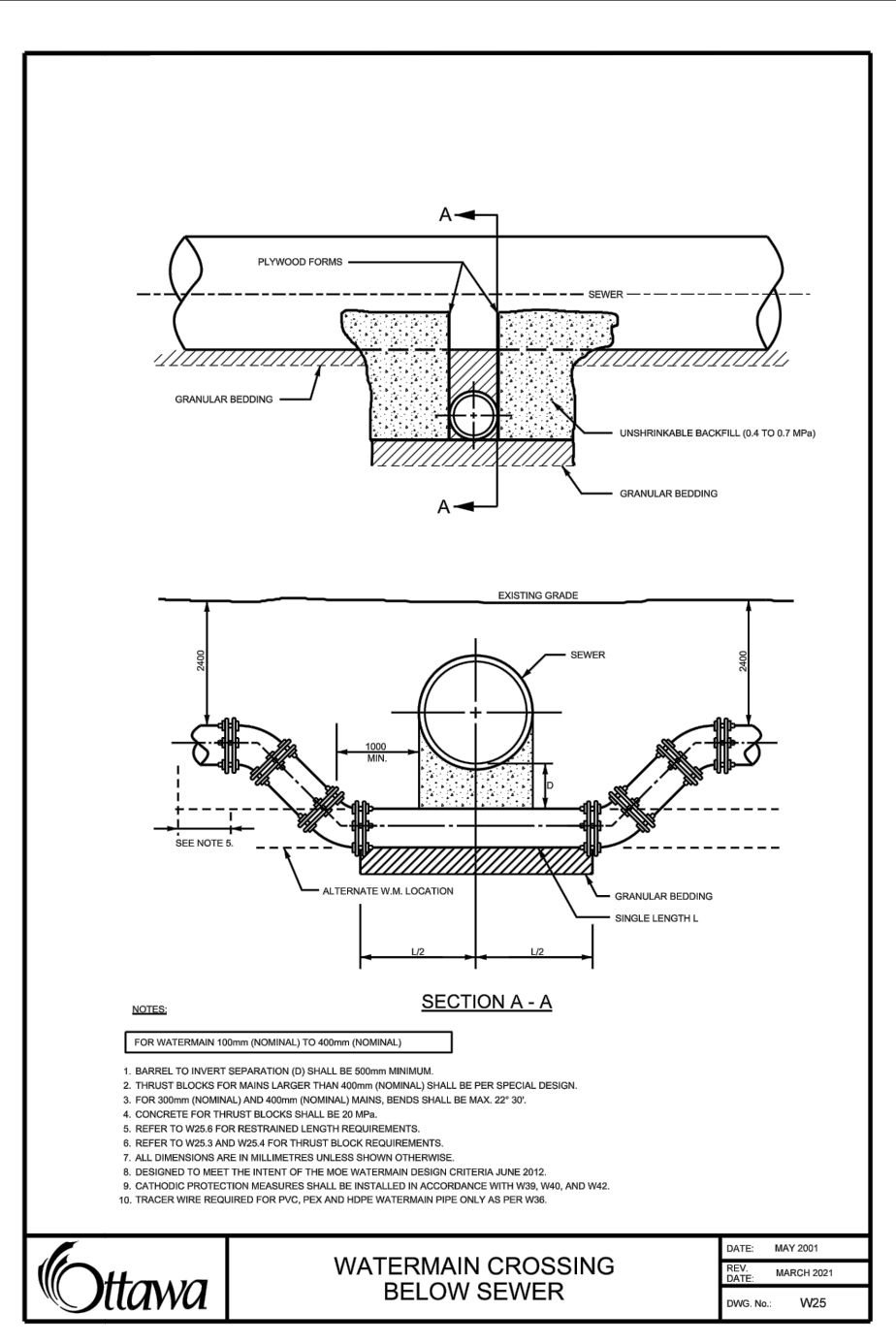




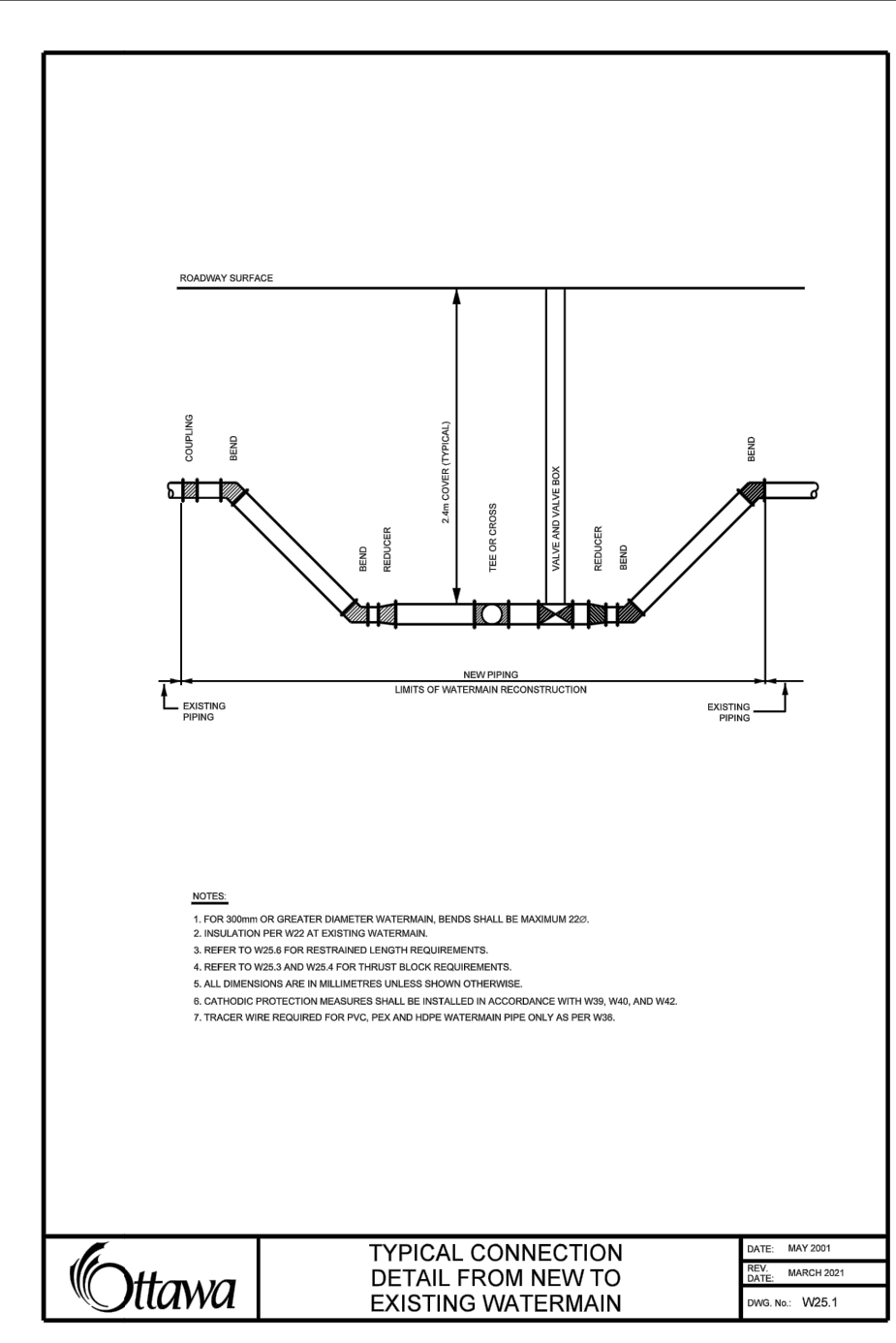
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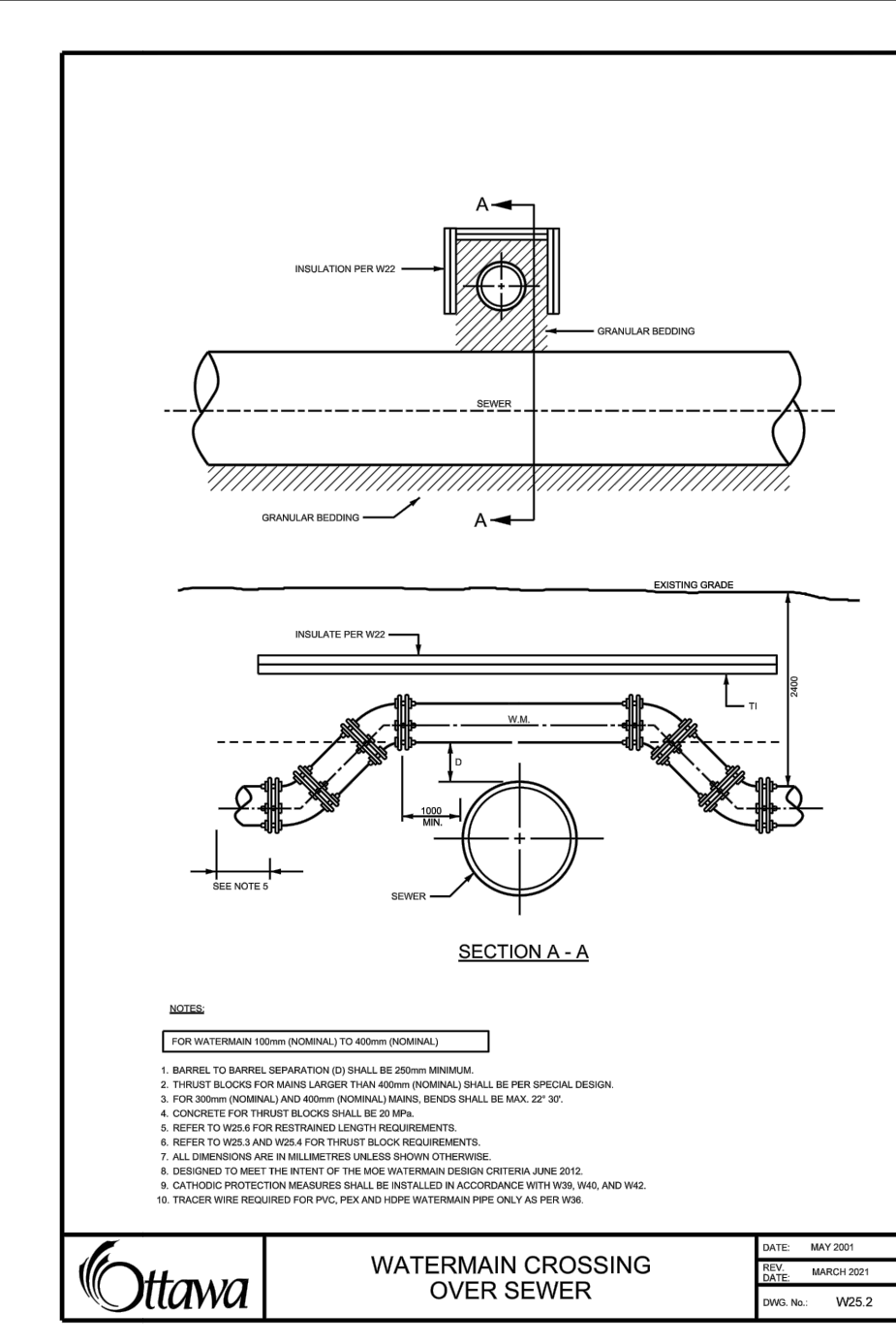
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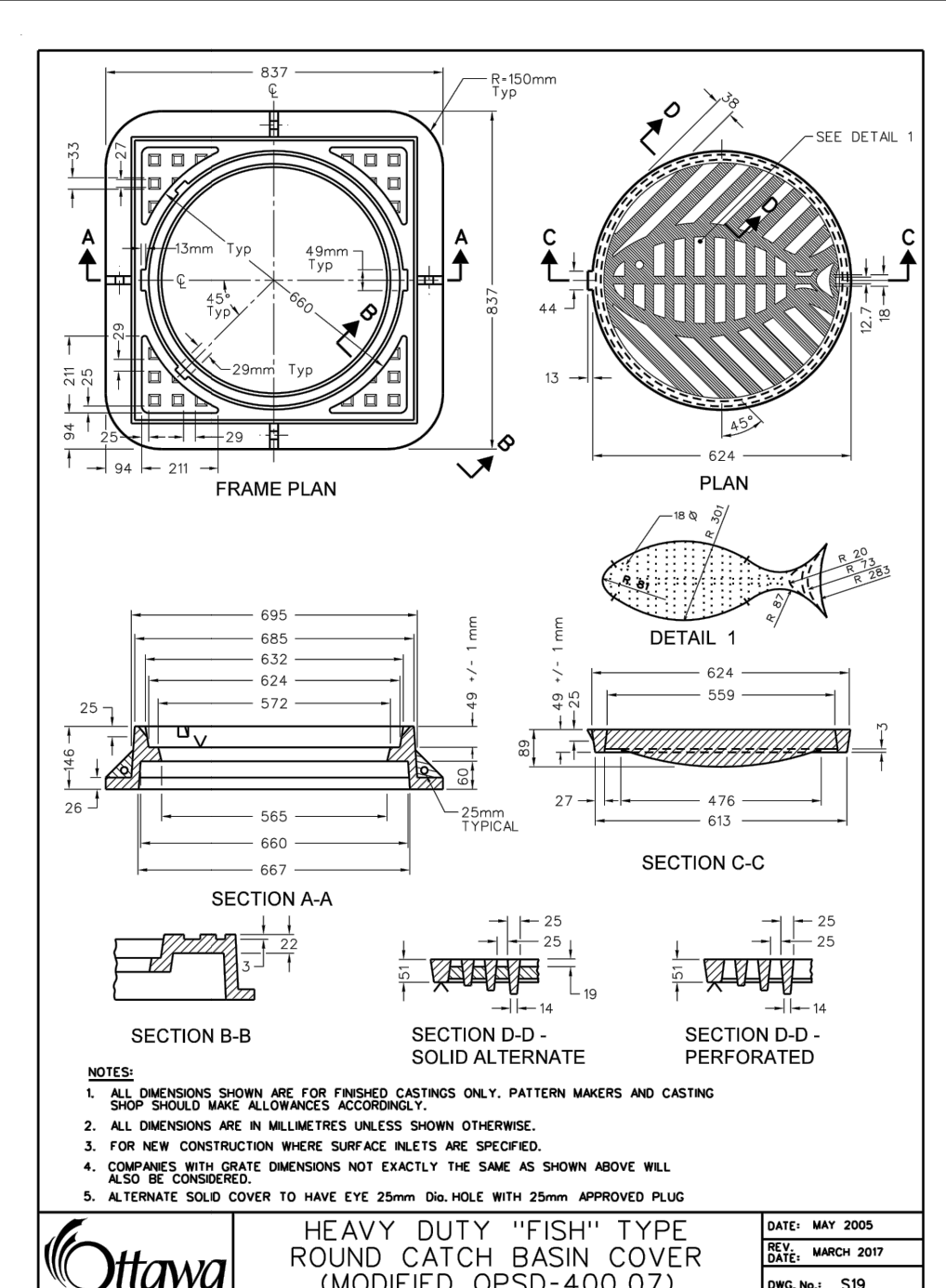
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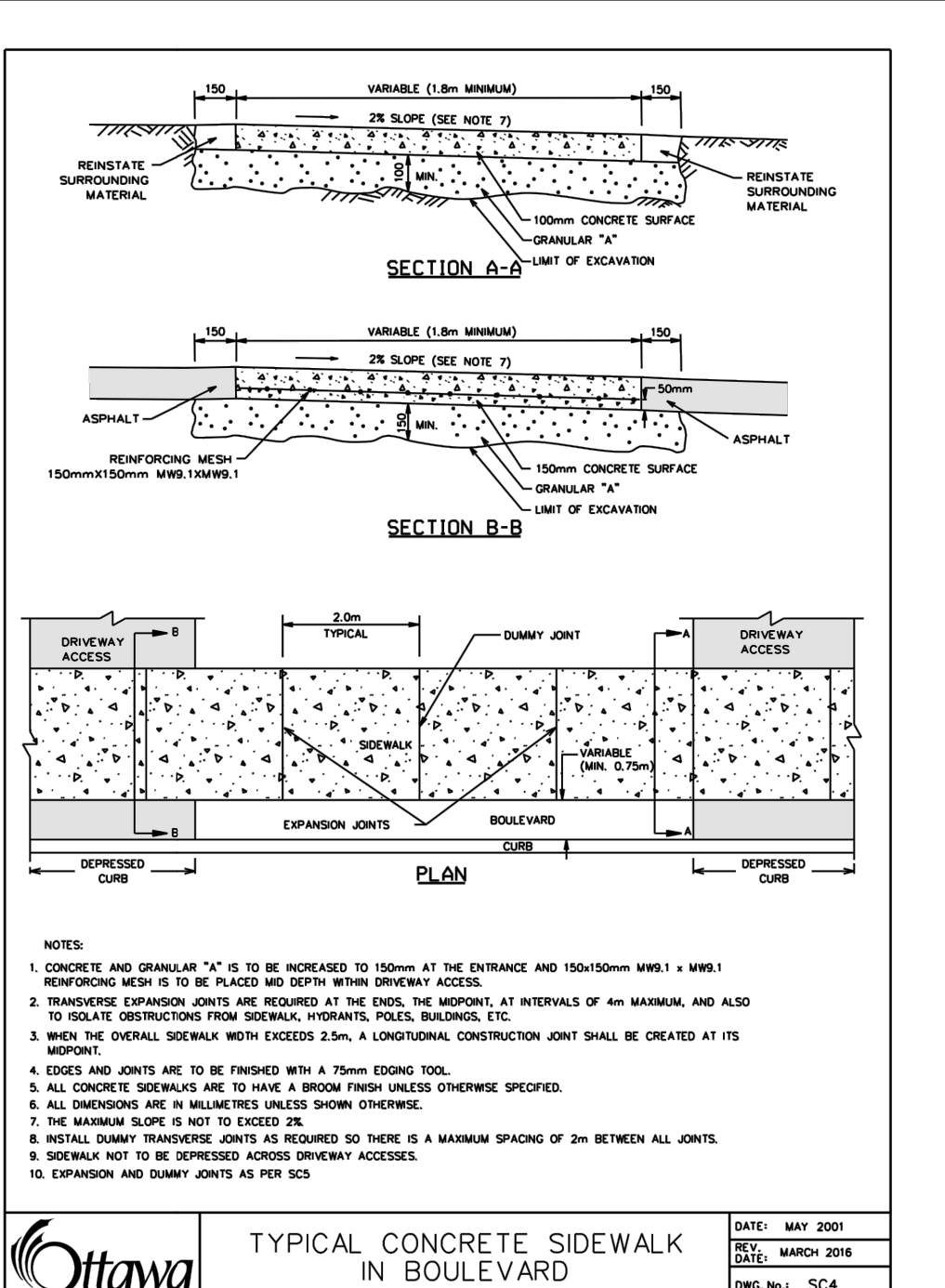
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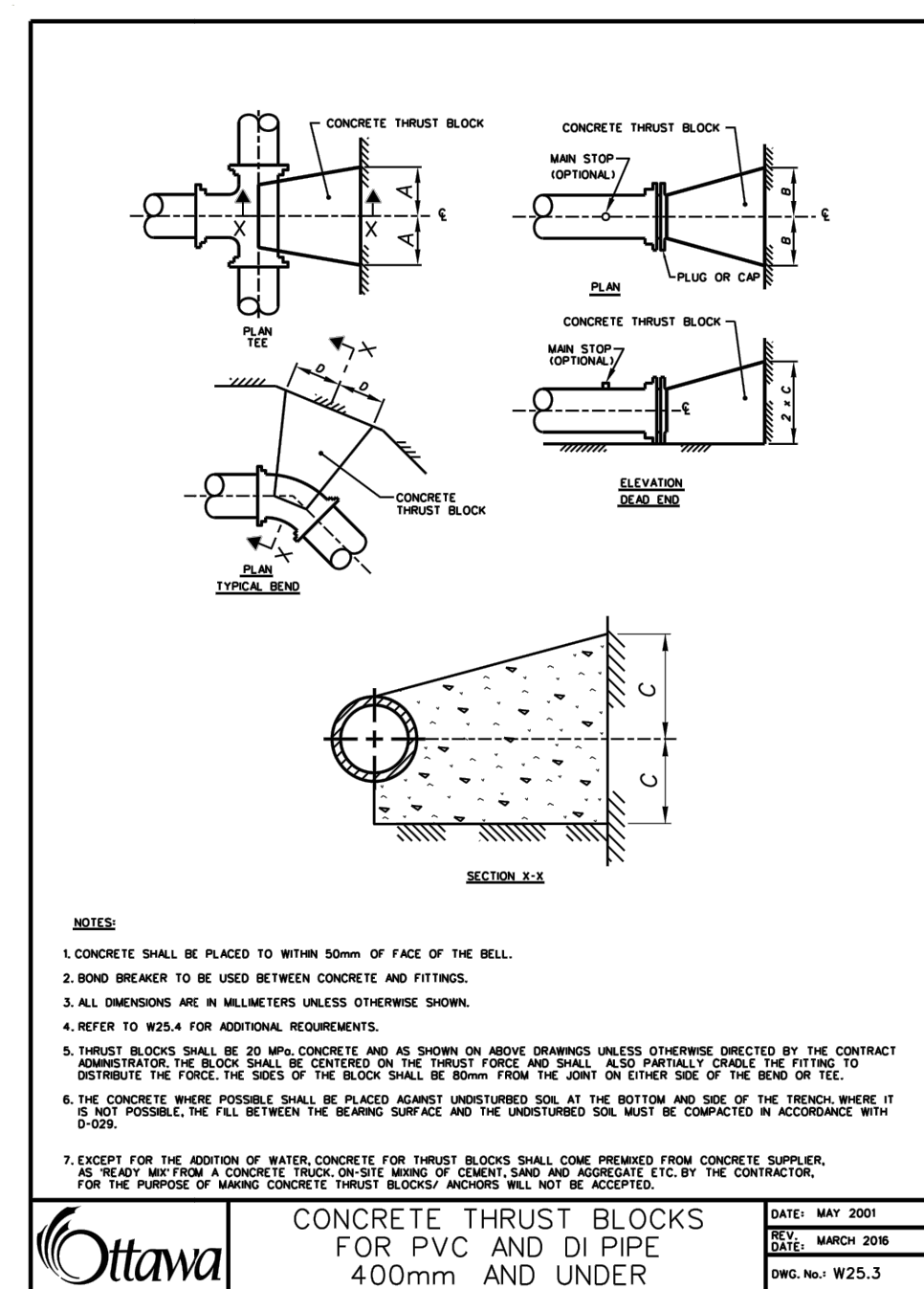
Watermain Crossing Over Sewer
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1026



Heavy Duty 'Fish' Type Round Catch Basin Cover (Modified OPSD-400.07)
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1027



Typical Concrete Sidewalk in Boulevard
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1028



Concrete Thrust Blocks for PVC and DI Pipe 400mm and Under
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1029

Thrust Block Dimension Tables for PVC and DI Pipe 400mm and Under

1. SOIL DESCRIPTION: VERY FINE SAND, SANDY CLAY, CLAY
 SOIL WITH TYPICAL BEARING CAPACITY OF 100 TO 150 kPa
 (DIMENSIONS NOTED ON TABLE)

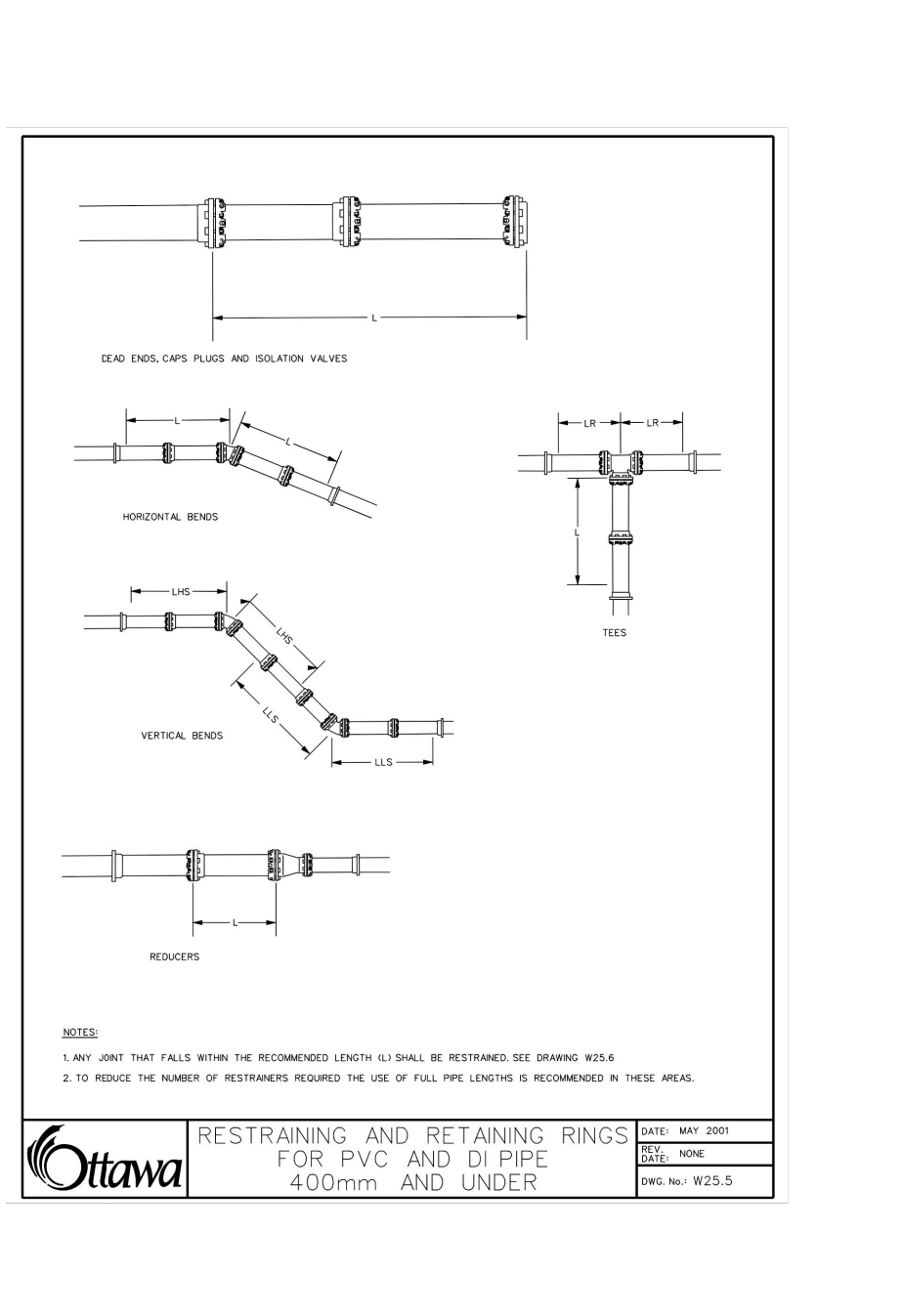
| PIPE SIZE (mm) | PIPE WALL THICKNESS (mm) | PIPE WEIGHT (kg/m) | PIPE STIFFNESS (kN/m) | PIPE RIGIDITY (kN/m) |
|----------------|--------------------------|--------------------|-----------------------|----------------------|
| 100 | 3.0 | 1.4 | 0.0001 | 0.0001 |
| 125 | 3.5 | 1.8 | 0.0002 | 0.0002 |
| 150 | 4.0 | 2.3 | 0.0003 | 0.0003 |
| 200 | 5.0 | 3.6 | 0.0006 | 0.0006 |
| 250 | 6.0 | 4.9 | 0.0009 | 0.0009 |
| 300 | 7.0 | 6.2 | 0.0012 | 0.0012 |
| 350 | 8.0 | 7.5 | 0.0015 | 0.0015 |
| 400 | 9.0 | 8.8 | 0.0018 | 0.0018 |

2. SOIL DESCRIPTION: FINE TO MEDIUM SAND, CLAY SAND GRAVEL
 SOIL WITH TYPICAL BEARING CAPACITY OF 200 TO 300 kPa
 (DIMENSIONS NOTED ON TABLE)

| PIPE SIZE (mm) | PIPE WALL THICKNESS (mm) | PIPE WEIGHT (kg/m) | PIPE STIFFNESS (kN/m) | PIPE RIGIDITY (kN/m) |
|----------------|--------------------------|--------------------|-----------------------|----------------------|
| 100 | 3.0 | 1.4 | 0.0001 | 0.0001 |
| 125 | 3.5 | 1.8 | 0.0002 | 0.0002 |
| 150 | 4.0 | 2.3 | 0.0003 | 0.0003 |
| 200 | 5.0 | 3.6 | 0.0006 | 0.0006 |
| 250 | 6.0 | 4.9 | 0.0009 | 0.0009 |
| 300 | 7.0 | 6.2 | 0.0012 | 0.0012 |
| 350 | 8.0 | 7.5 | 0.0015 | 0.0015 |
| 400 | 9.0 | 8.8 | 0.0018 | 0.0018 |

3. SOIL DESCRIPTION: SAND, GRAVELS AND GRAVEL SAND MATERIALS
 SOIL WITH TYPICAL BEARING CAPACITY OF 300 kPa AND OVER
 (DIMENSIONS NOTED ON TABLE)

| PIPE SIZE (mm) | PIPE WALL THICKNESS (mm) | PIPE WEIGHT (kg/m) | PIPE STIFFNESS (kN/m) | PIPE RIGIDITY (kN/m) |
|----------------|--------------------------|--------------------|-----------------------|----------------------|
| 100 | 3.0 | 1.4 | 0.0001 | 0.0001 |
| 125 | 3.5 | 1.8 | 0.0002 | 0.0002 |
| 150 | 4.0 | 2.3 | 0.0003 | 0.0003 |
| 200 | 5.0 | 3.6 | 0.0006 | 0.0006 |
| 250 | 6.0 | 4.9 | 0.0009 | 0.0009 |
| 300 | 7.0 | 6.2 | 0.0012 | 0.0012 |
| 350 | 8.0 | 7.5 | 0.0015 | 0.0015 |
| 400 | 9.0 | 8.8 | 0.0018 | 0.0018 |



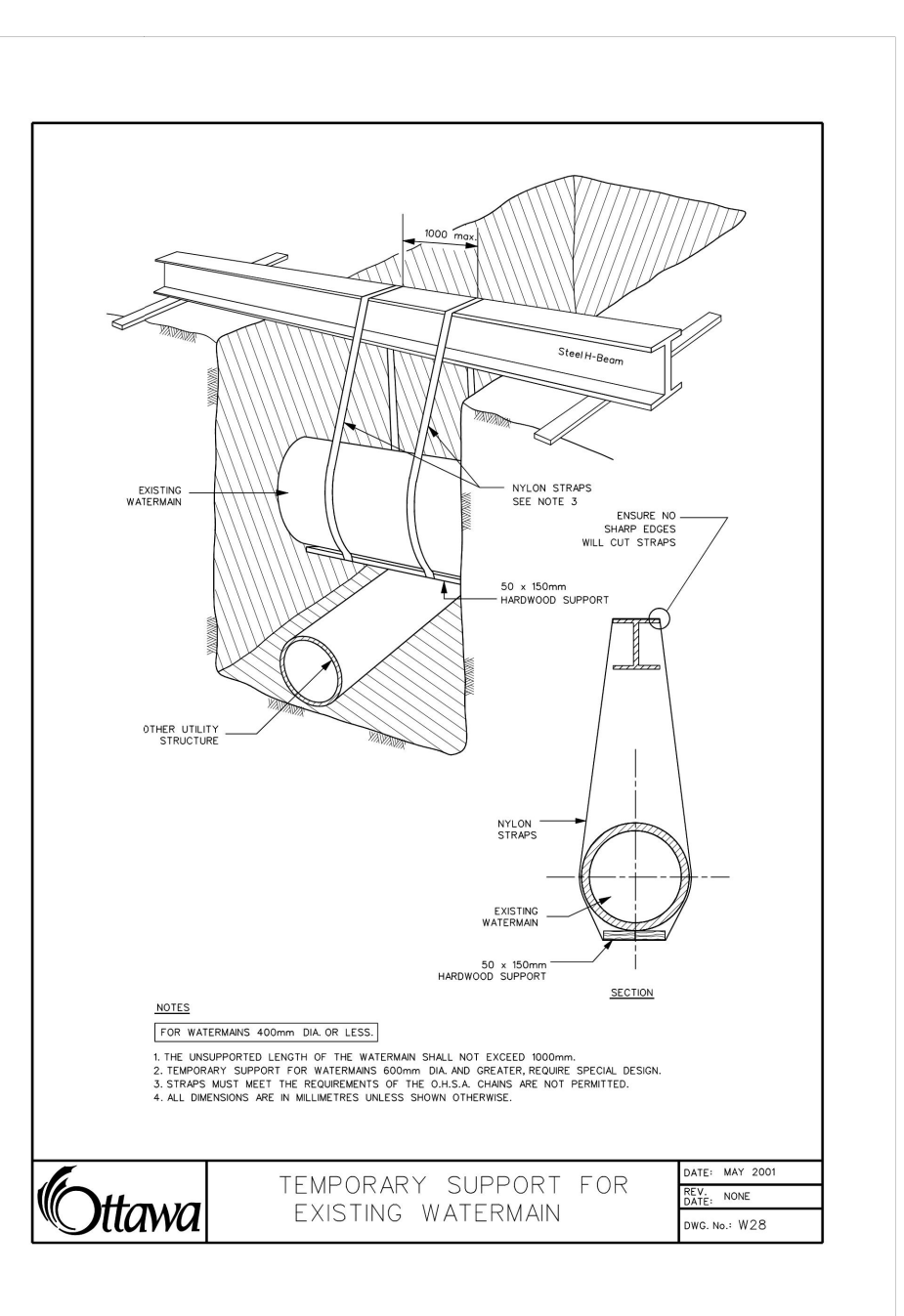
Restraining and Retaining Rings for PVC and DI Pipe 400mm and Under
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1030

Tables of Restrained Lengths for PVC and DI Pipe 400mm and Under

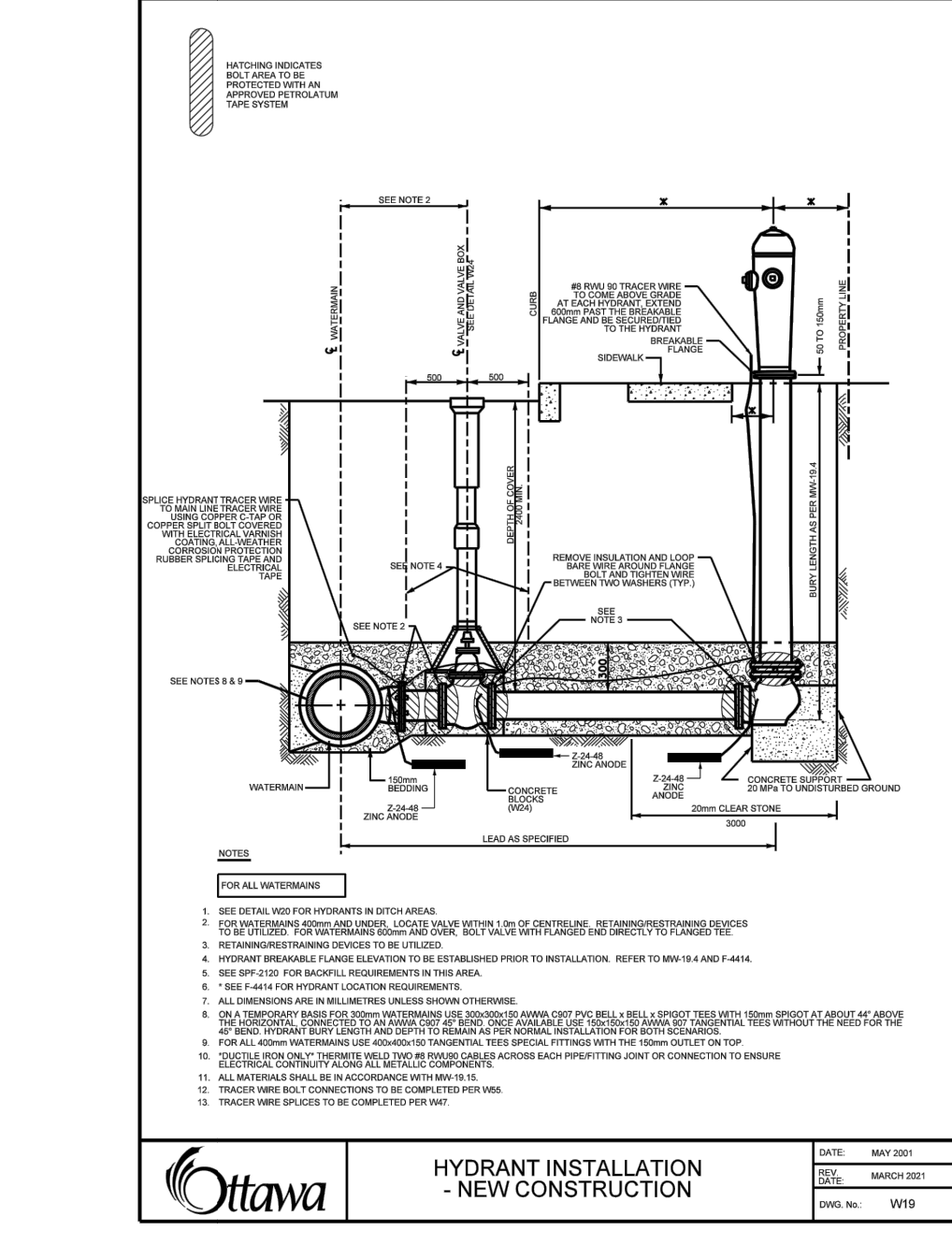
TABLE OF RESTRAINED LENGTHS FOR PVC AND DI WATERMAIN ON STANDARD GRANULAR BASEMENT IN SOIL OF BEARING CAPACITY OF 100 kPa AND OVER

| RESTRAINT | PIPE DIAMETER (mm) | | | |
|---|--------------------|-----|-----|-----|
| | 100 | 125 | 150 | 200 |
| SMALLER COVER TO COVER (MINIMUM) | 3 | 4 | 5 | 6 |
| BEFORE CURB AND OTHER SIDE OF VALVE (1) | 3 | 4 | 5 | 6 |
| VERTICAL BENCH | 3 | 4 | 5 | 6 |
| LENGTH FROM FACE OF VALVE | 3 | 4 | 5 | 6 |
| LENGTH FROM FACE OF VALVE | 3 | 4 | 5 | 6 |
| HORIZONTAL BENCH | 3 | 4 | 5 | 6 |
| FROM END OF WALL TO END OF BENCH | 3 | 4 | 5 | 6 |

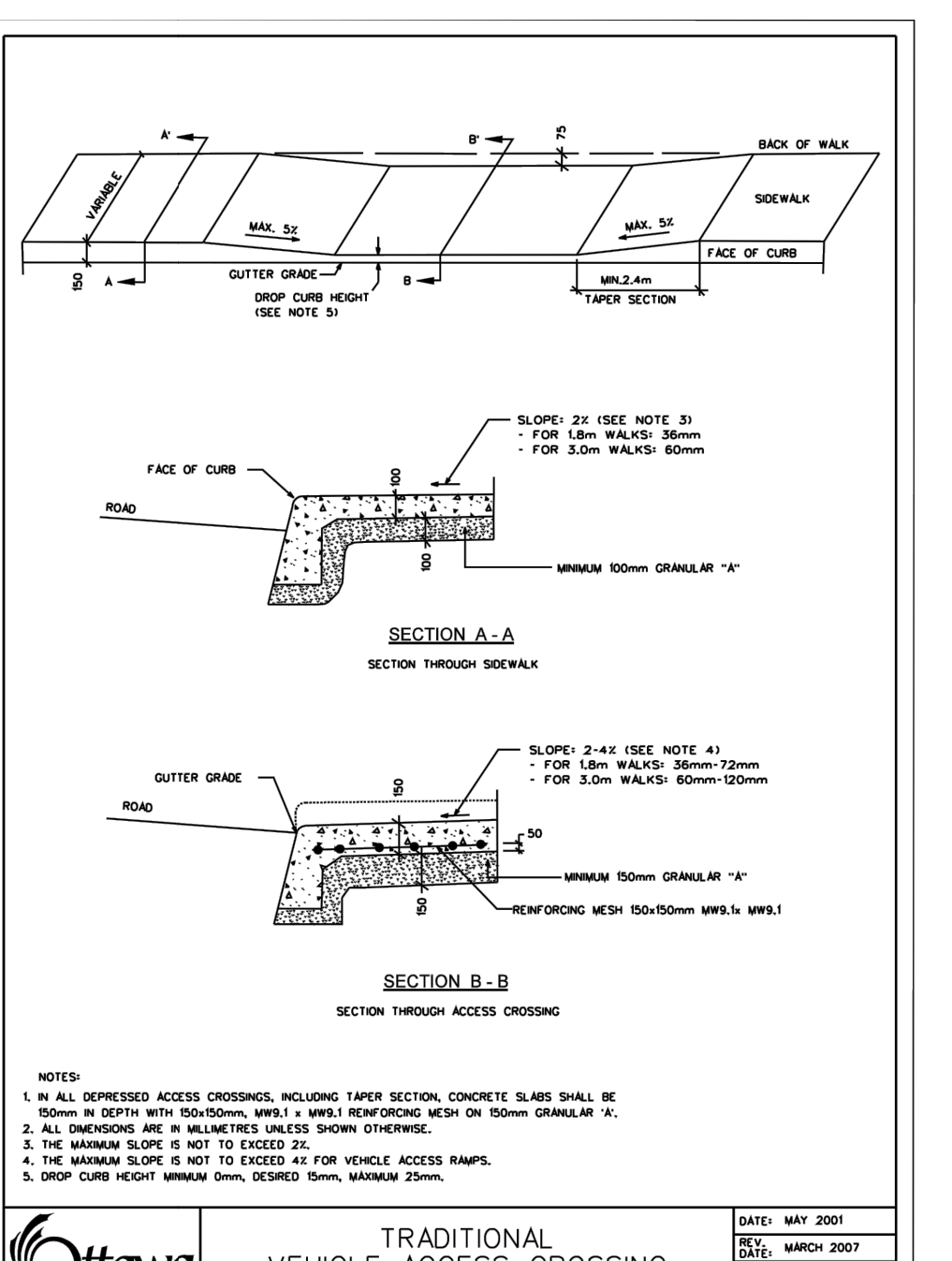
Tables of Restrained Lengths for PVC and DI Pipe 400mm and Under
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1031



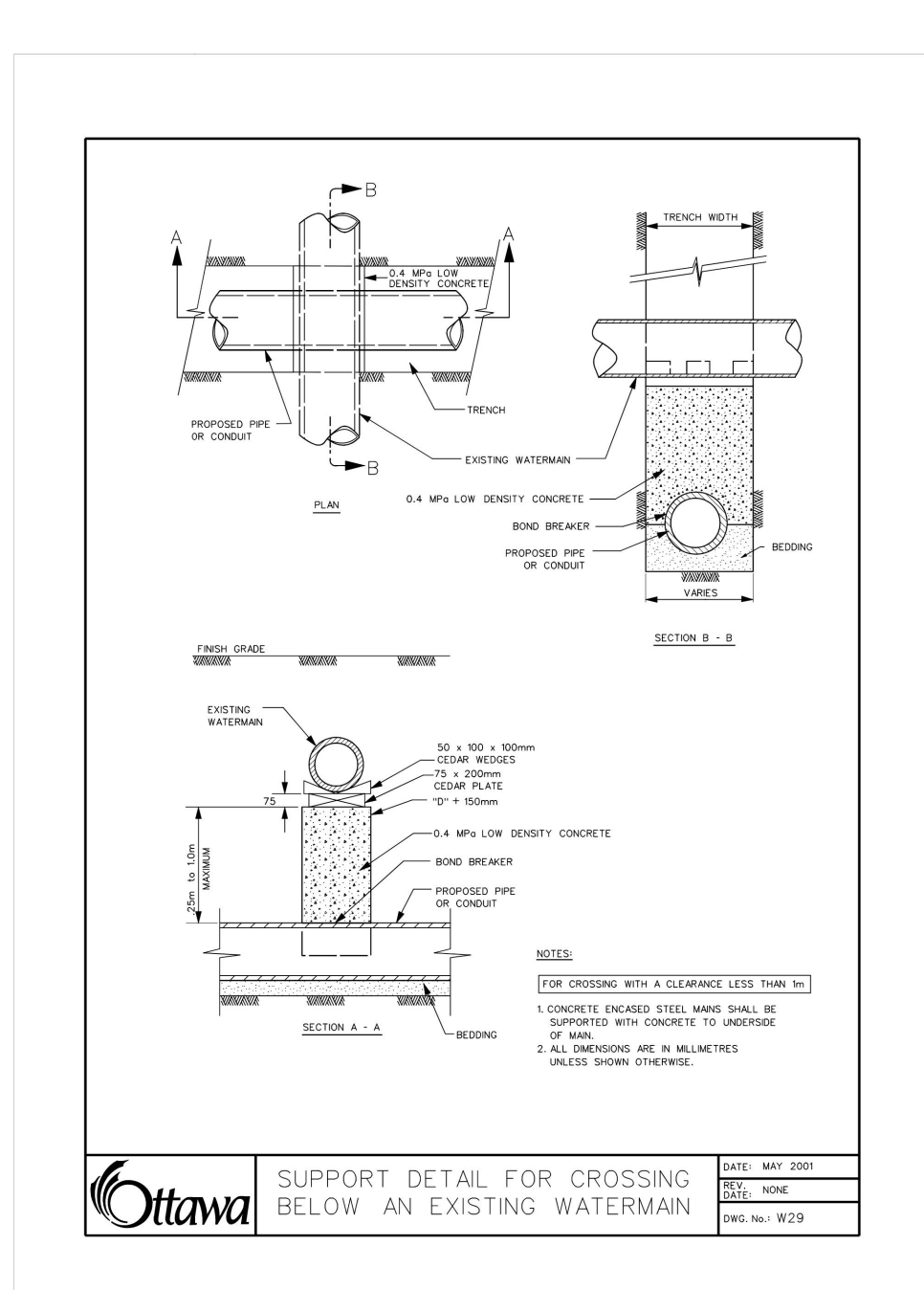
Temporary Support for Existing Watermain
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1032



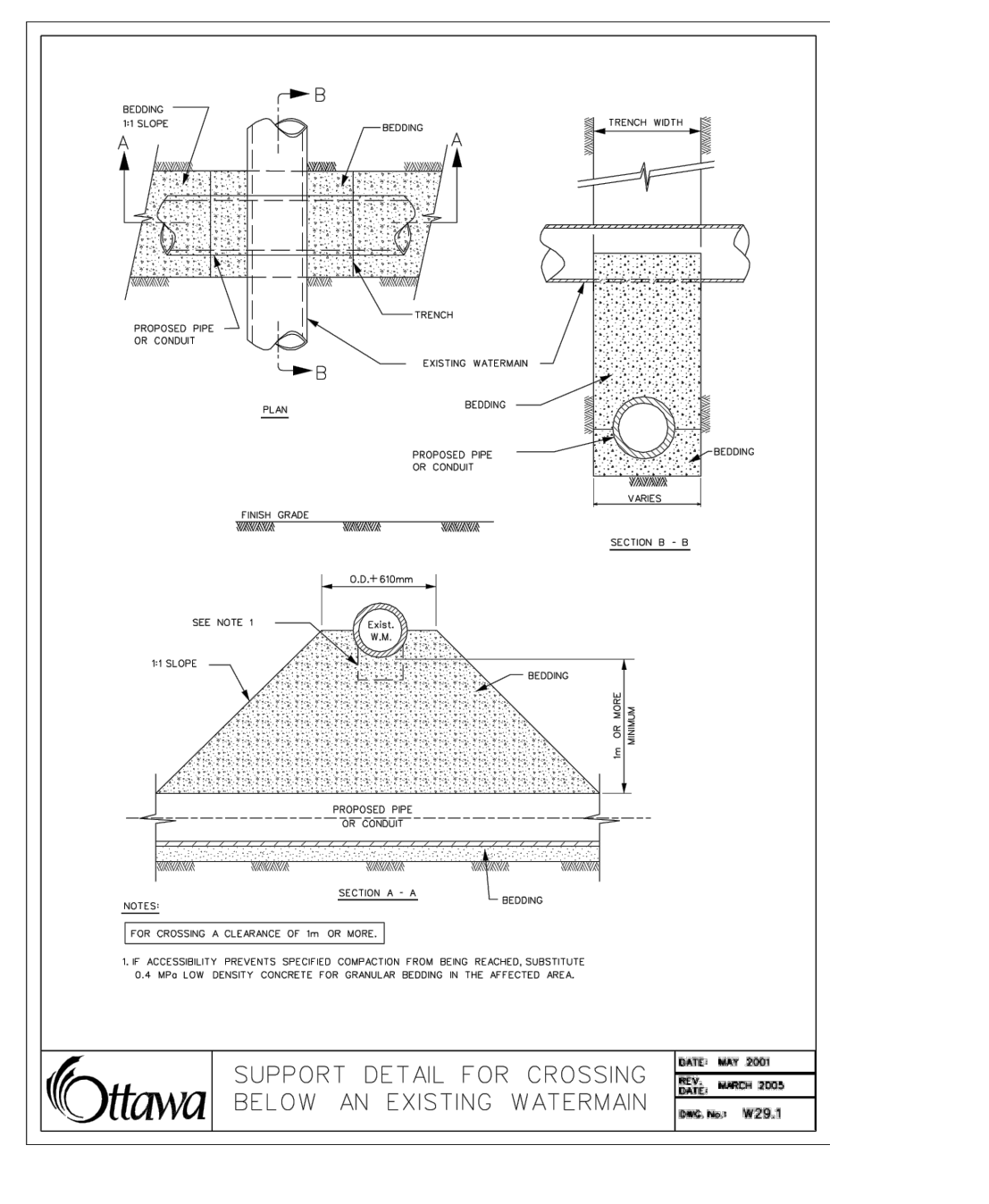
Hydrant Installation - New Construction
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1033



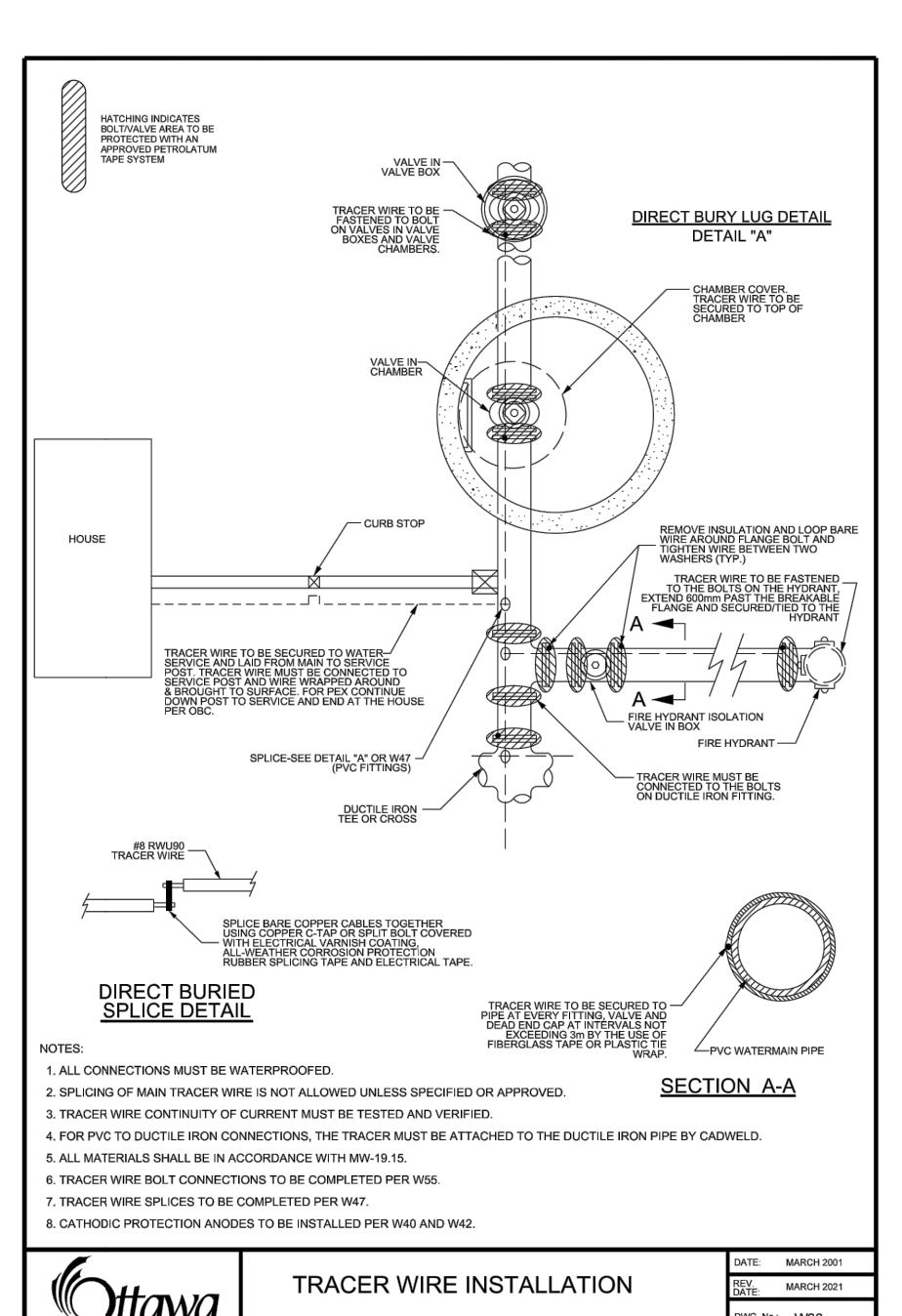
Traditional Vehicle Access Crossing
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1034



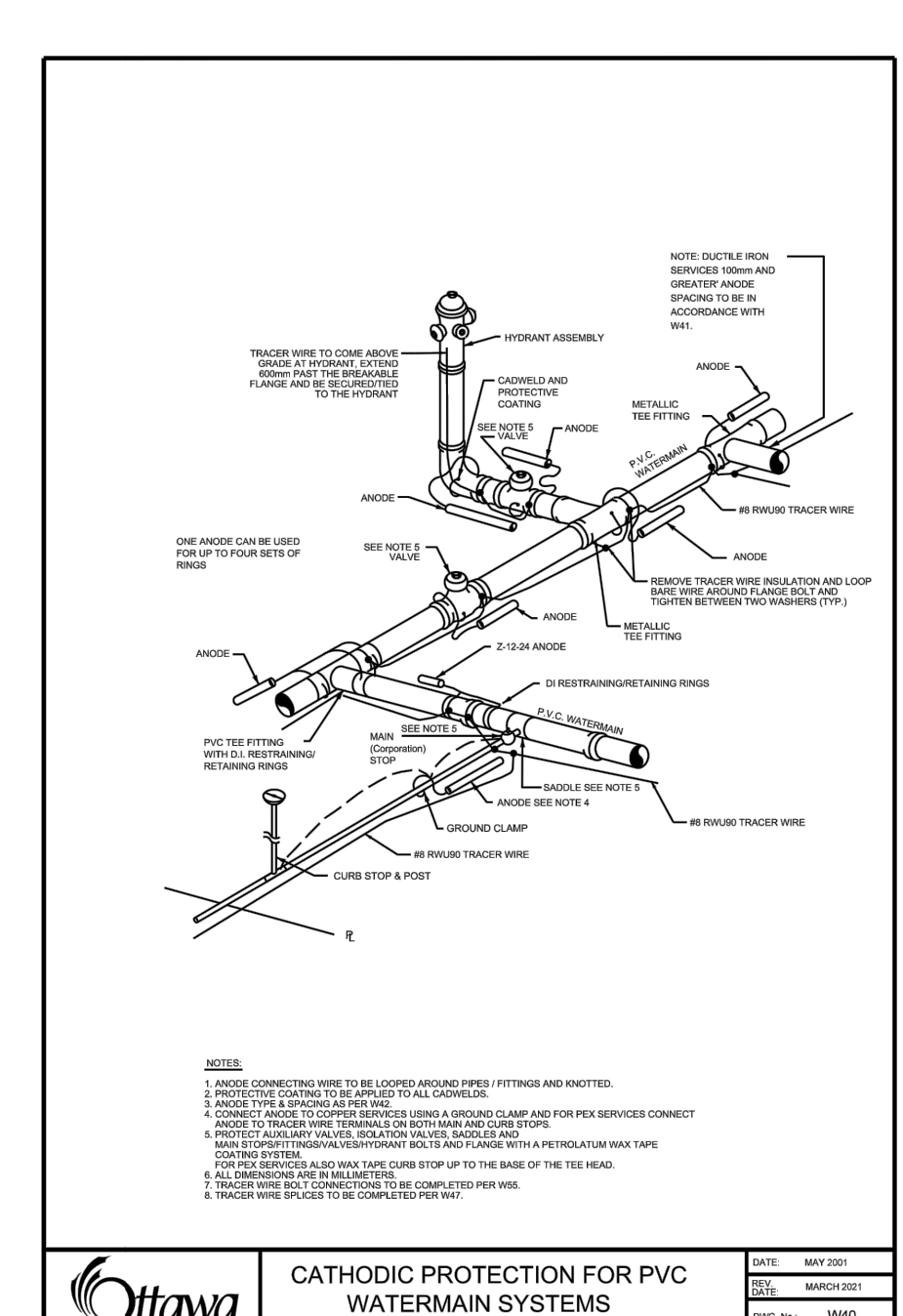
Support Detail for Crossing Below an Existing Watermain
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1035



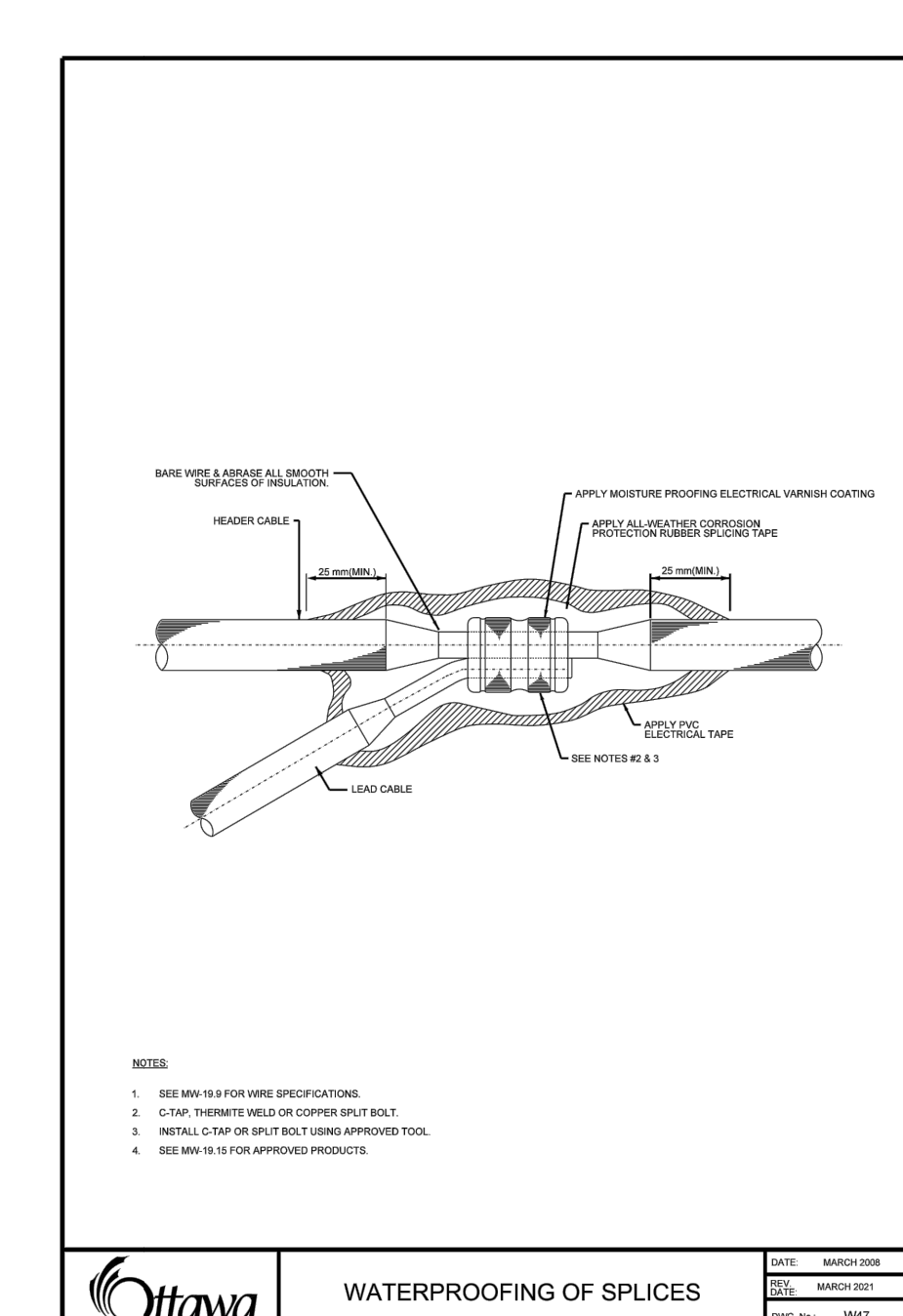
Support Detail for Crossing Below an Existing Watermain
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1036



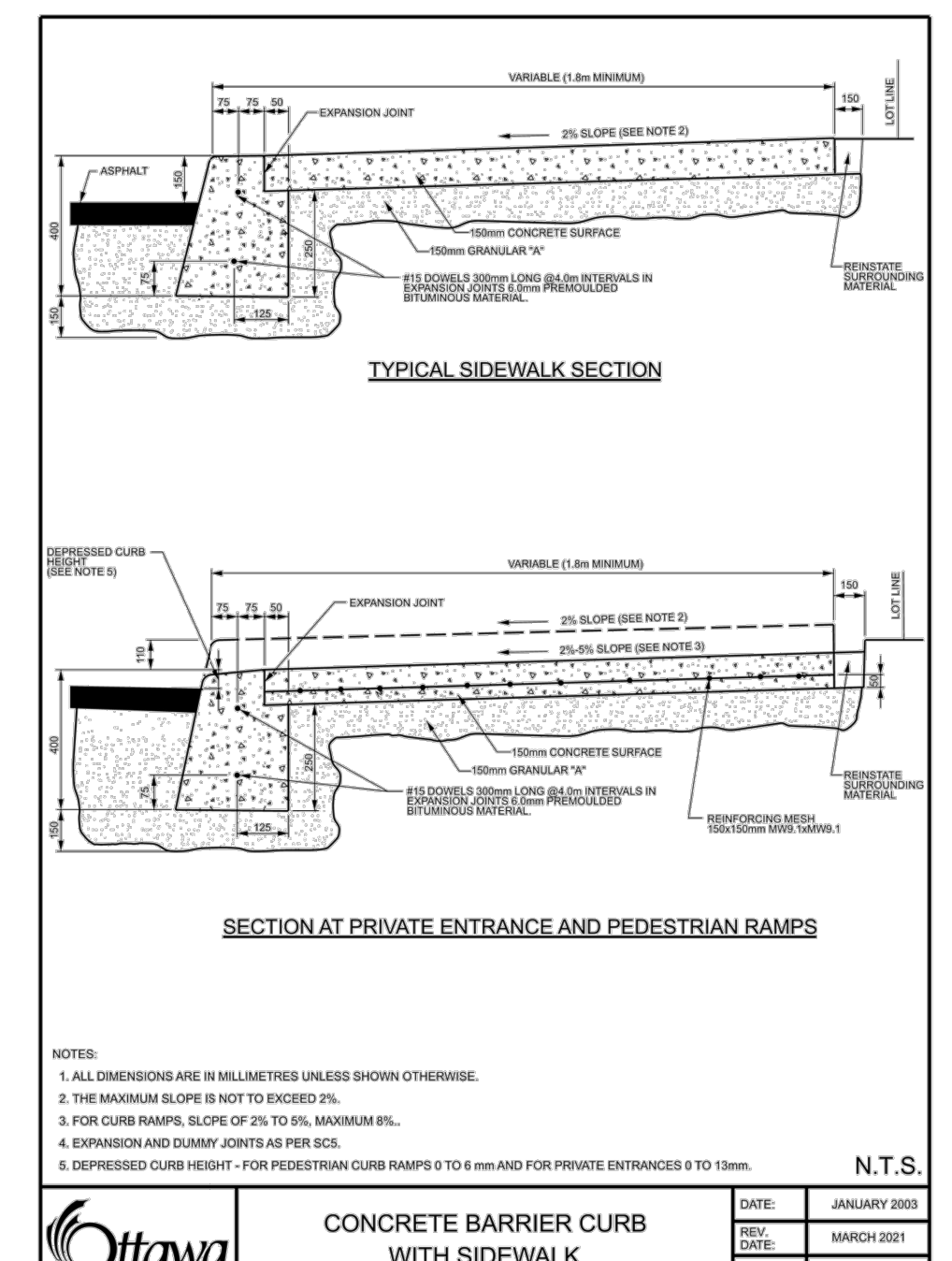
Tracer Wire Installation
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1037



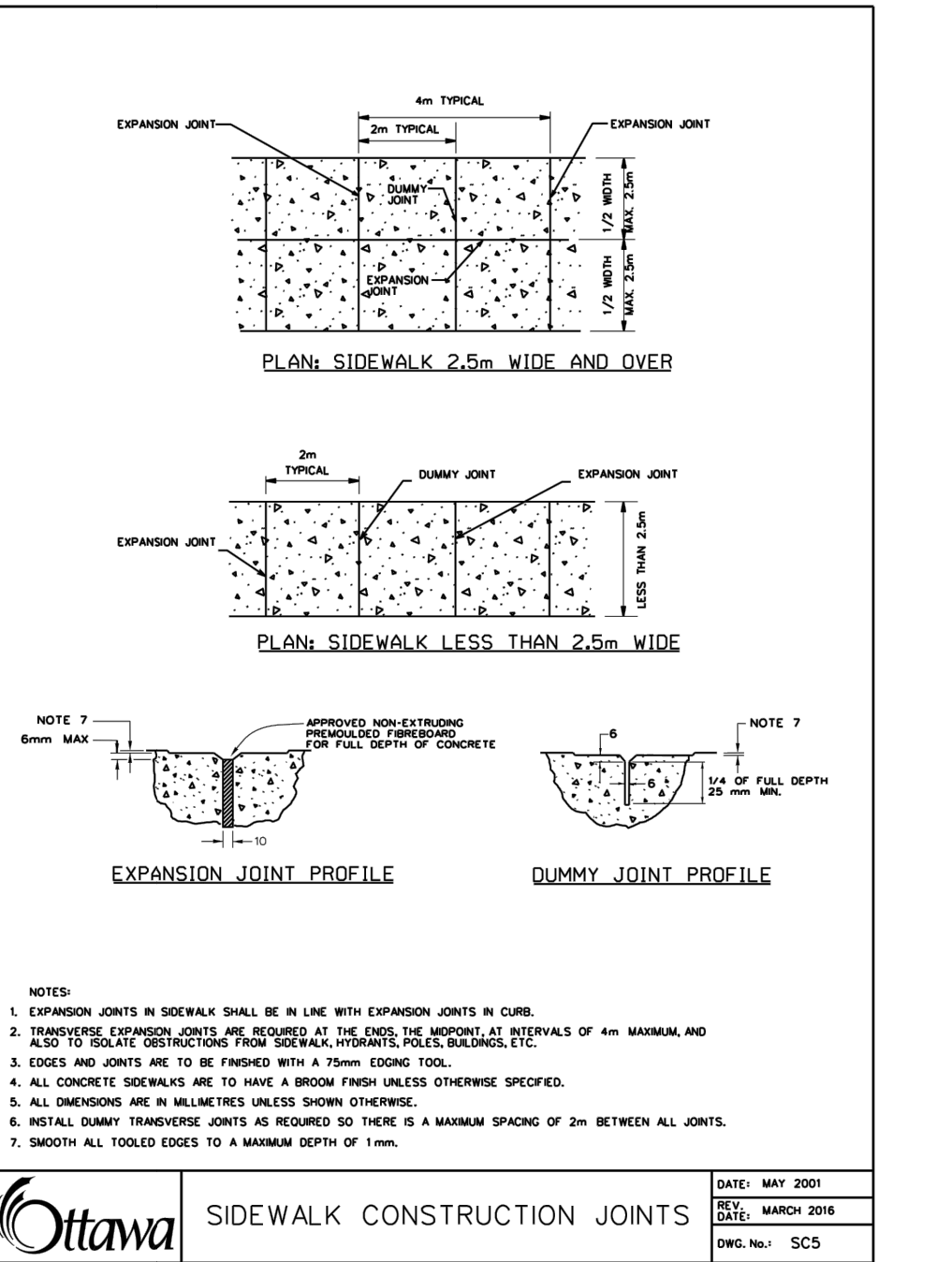
Cathodic Protection for PVC Watermain Systems
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1038



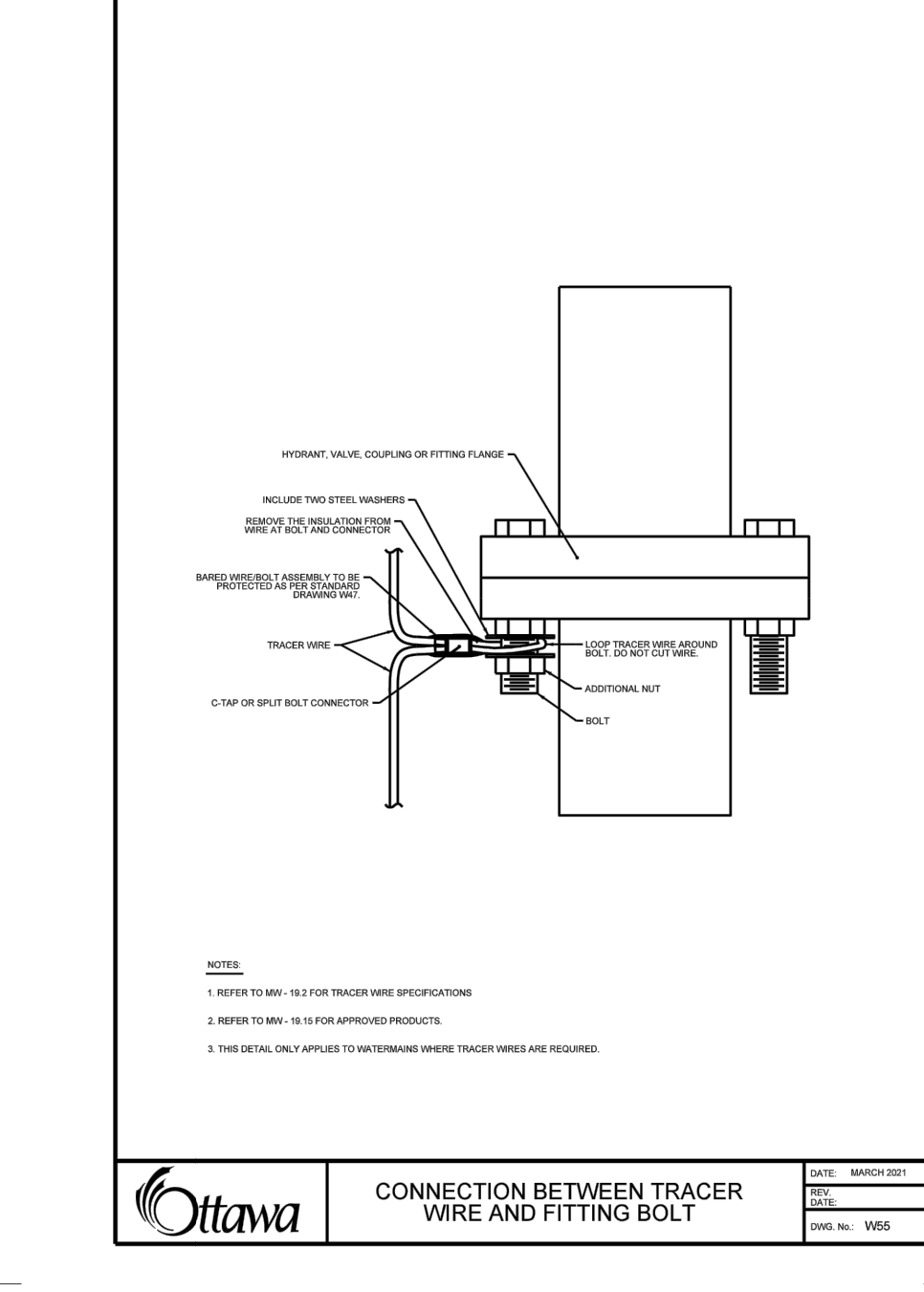
Waterproofing of Splices
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1039



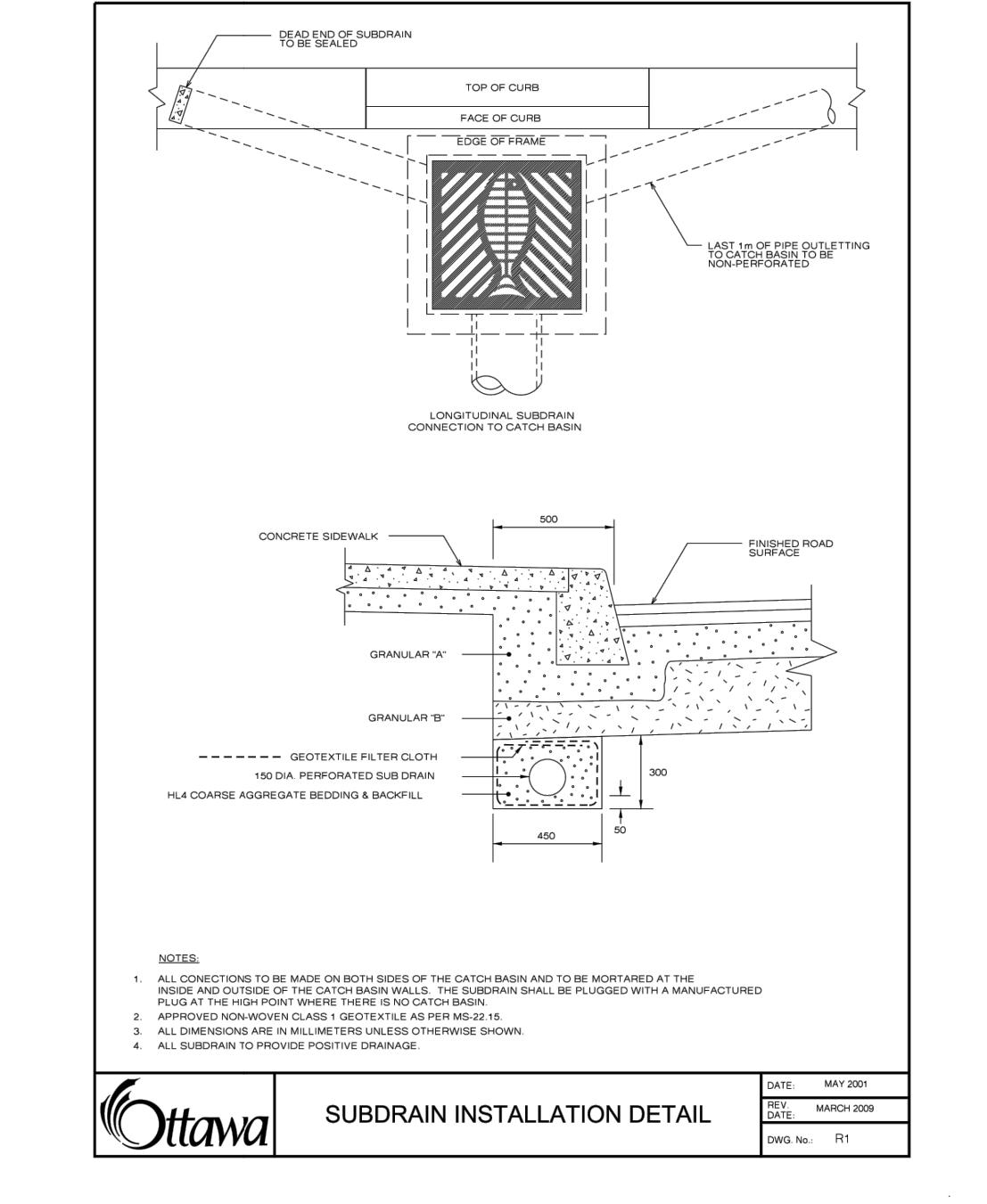
Concrete Barrier Curb with Sidewalk
 DATE: JANUARY 2011
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: SC1.4



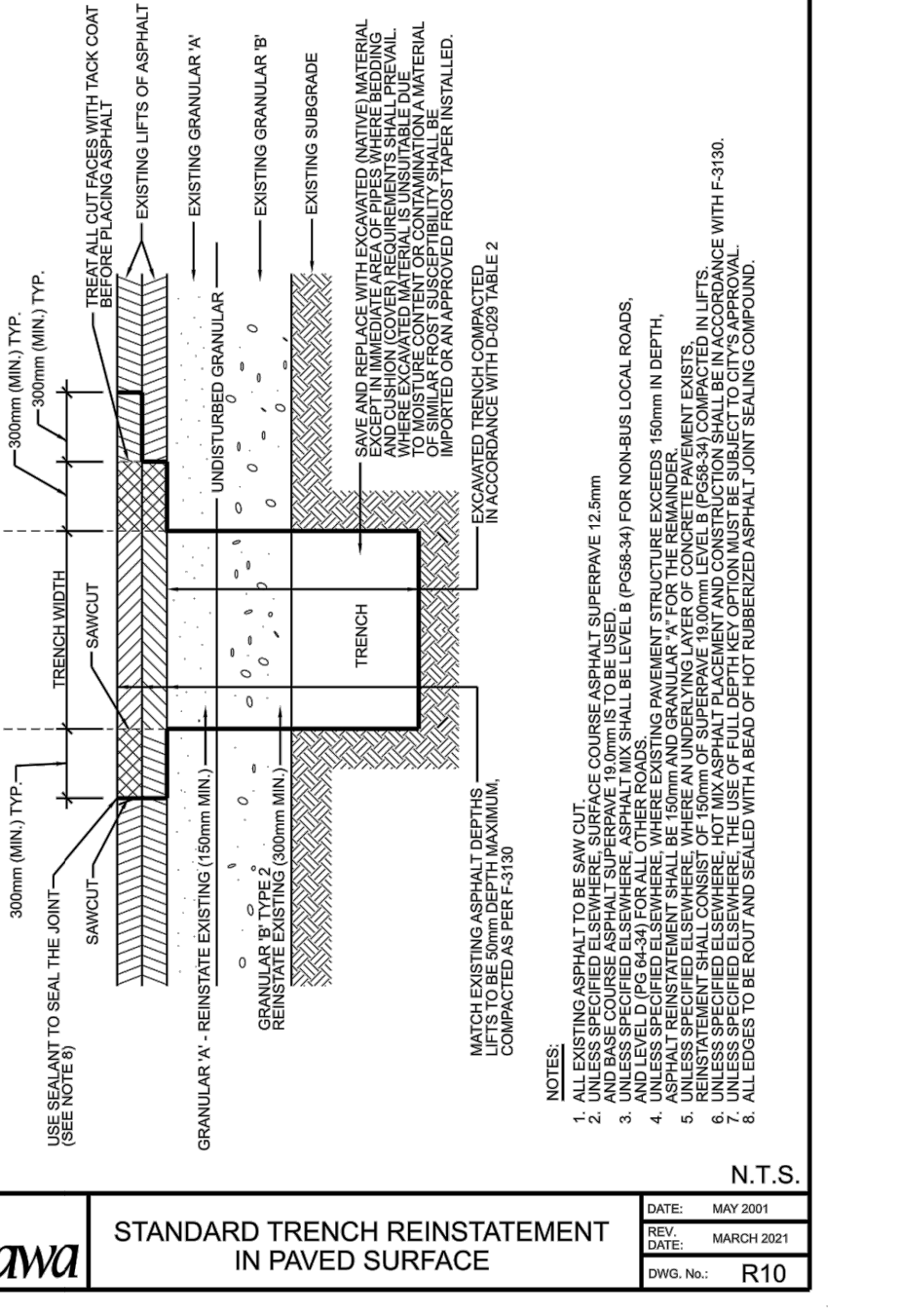
Sidewalk Construction Joints
 DATE: FEBRUARY 2011
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: SC1.5



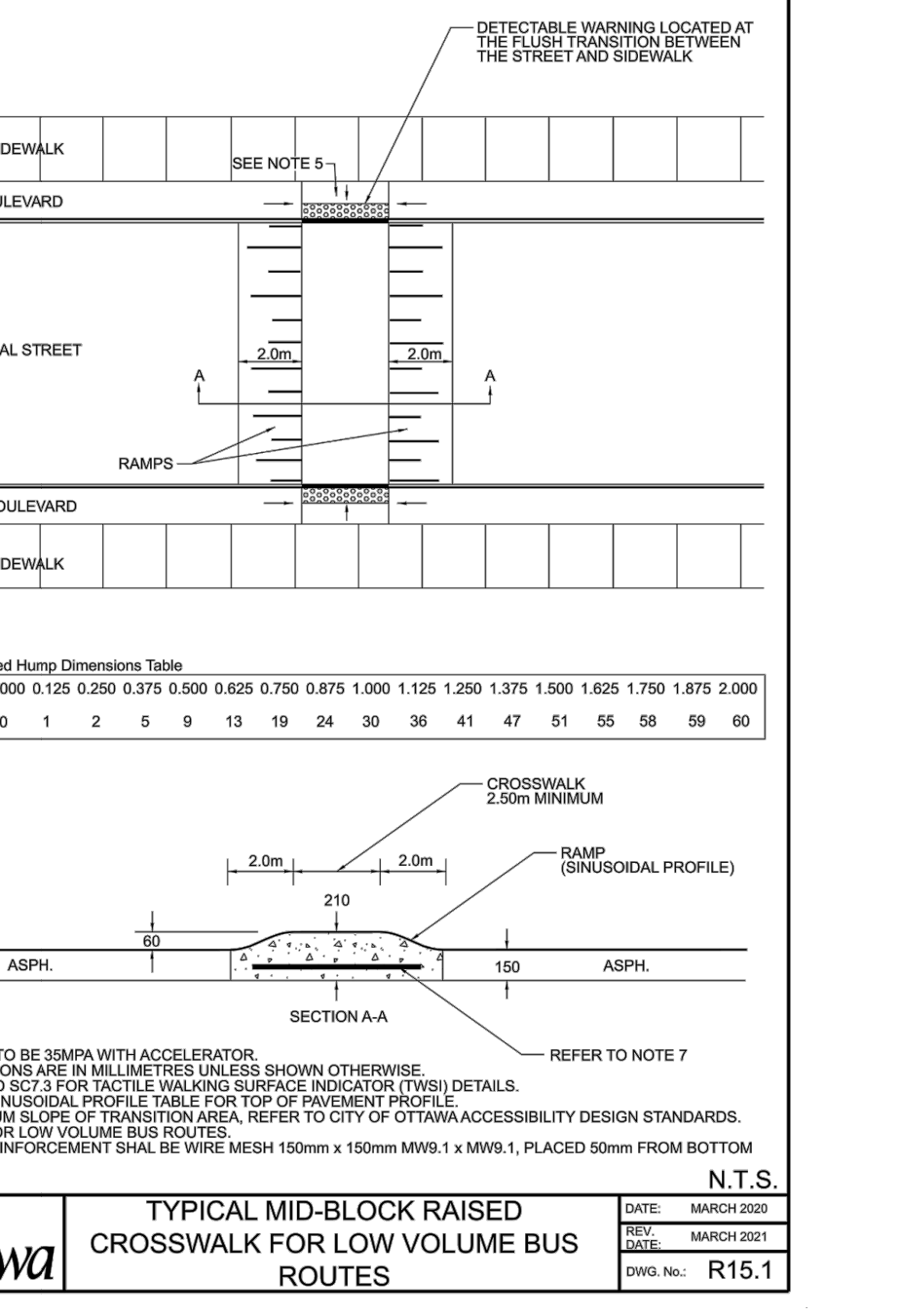
Connection between Tracer Wire and Fitting Bolt
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1040



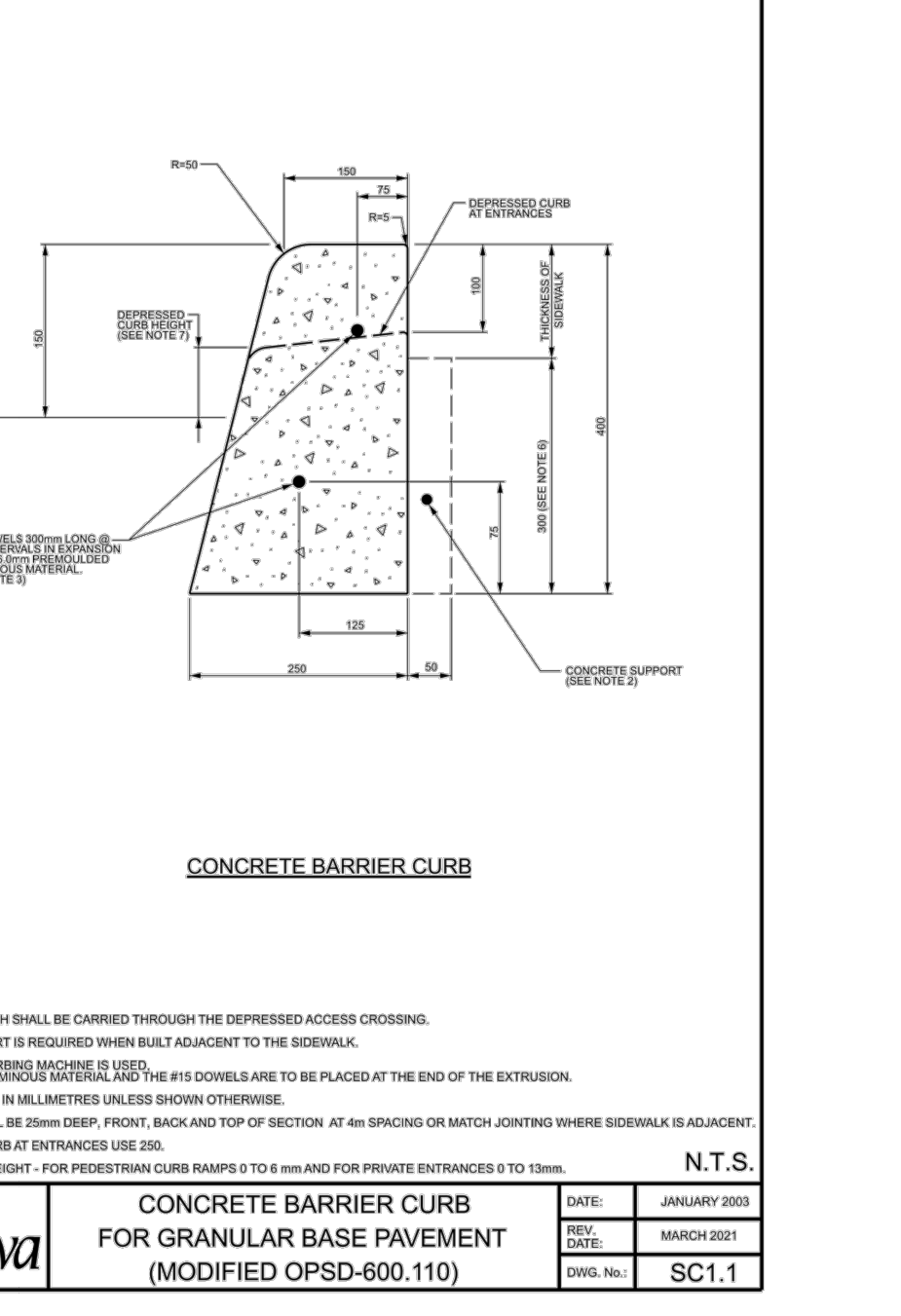
Subdrain Installation Detail
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: 1041



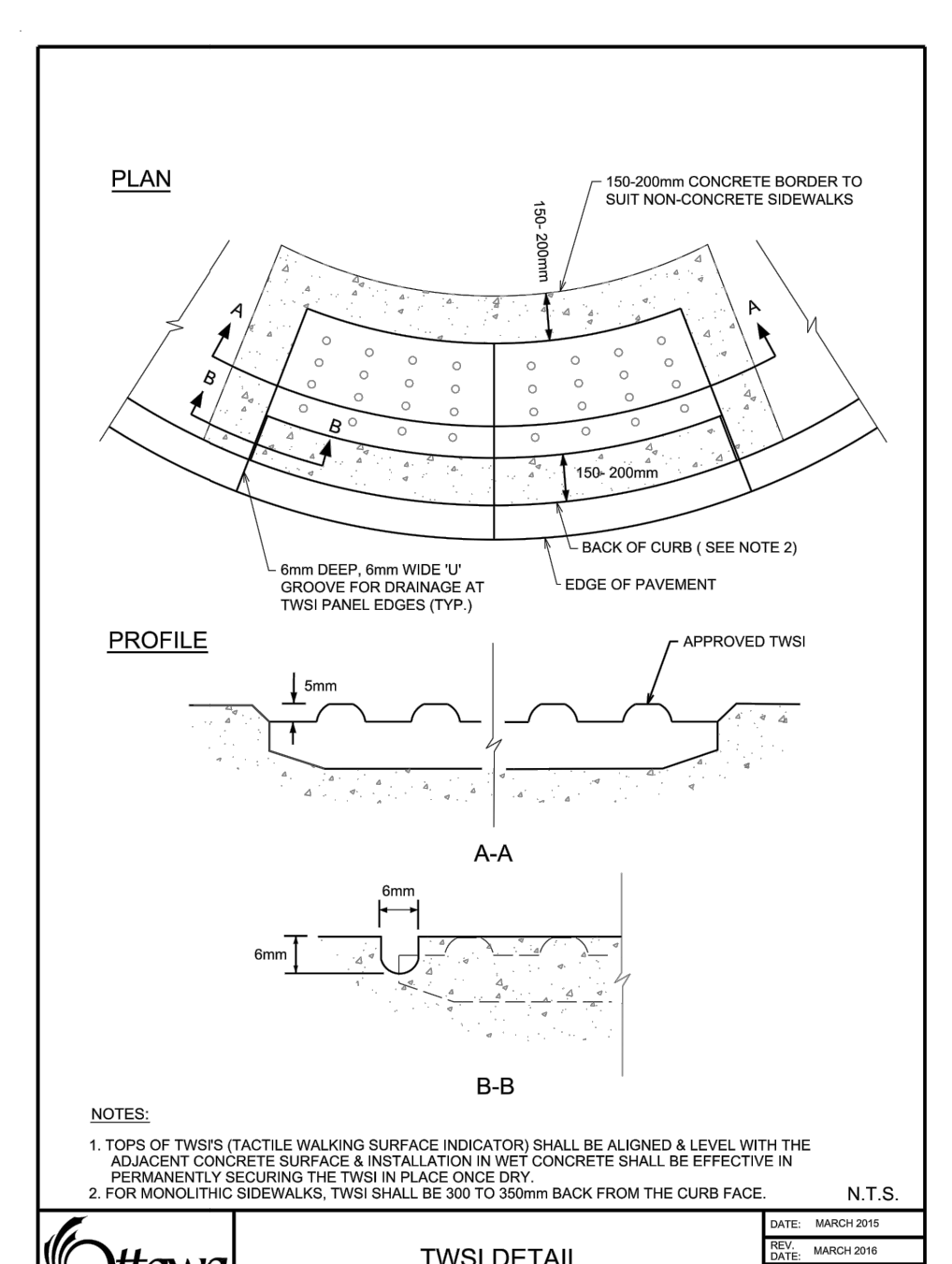
Standard Trench Reinstatement in Paved Surface
 DATE: MAY 2010
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: R10



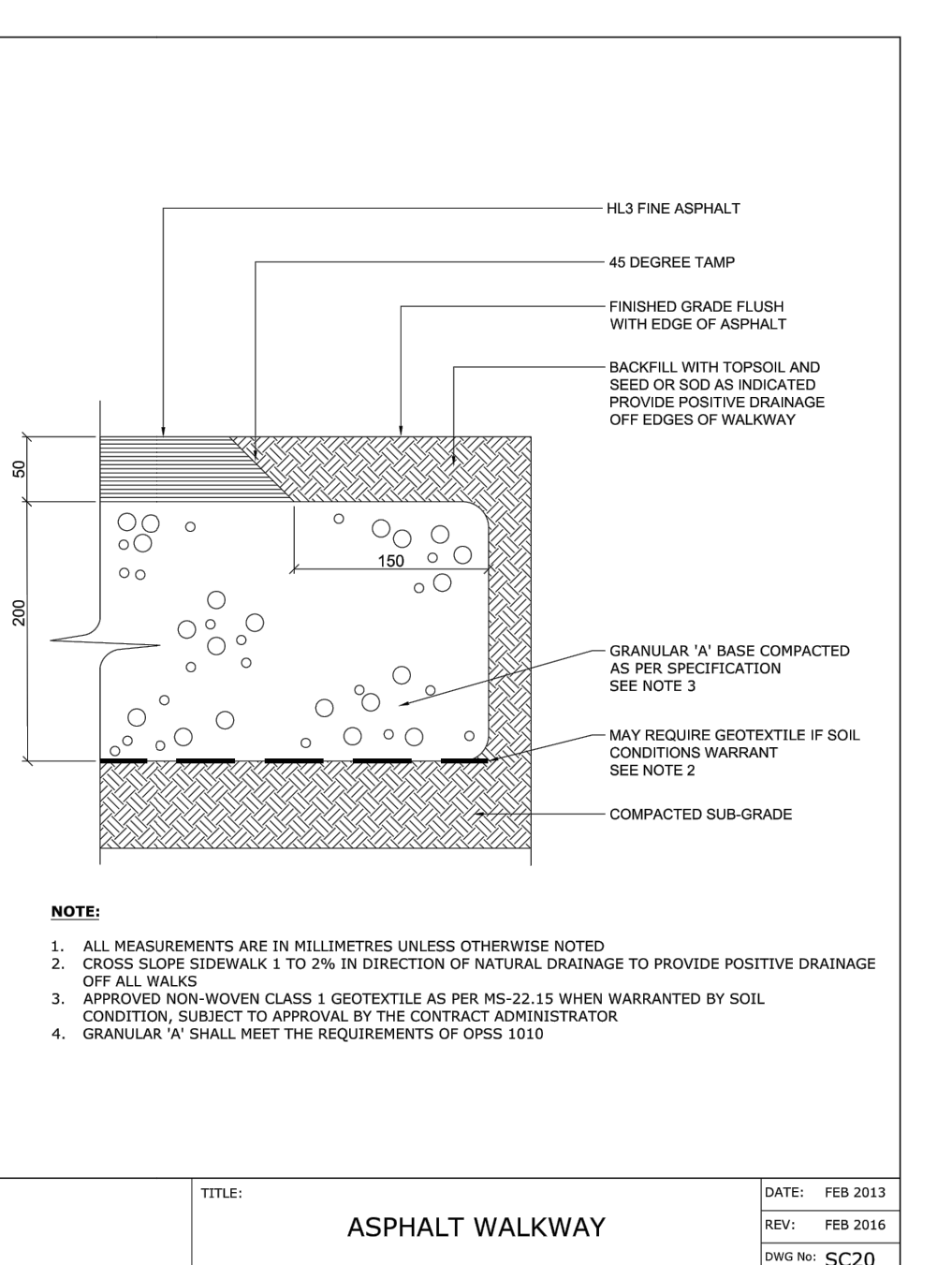
Typical Mid-Block Raised Crosswalk for Low Volume Bus Routes
 DATE: JANUARY 2011
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: R15.1



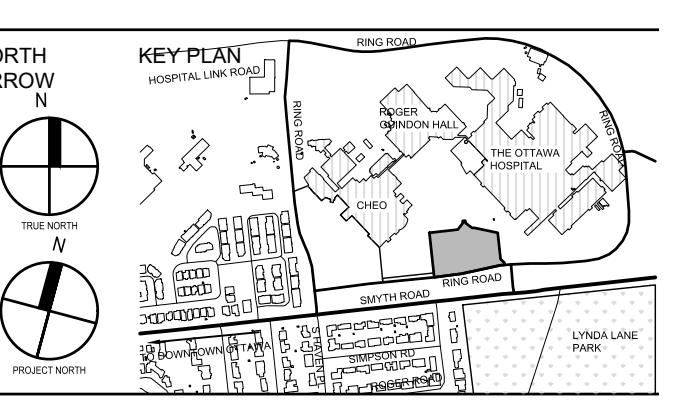
Concrete Barrier Curb for Granular Base Pavement (Modified OPSD-600.110)
 DATE: JANUARY 2011
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: SC1.1

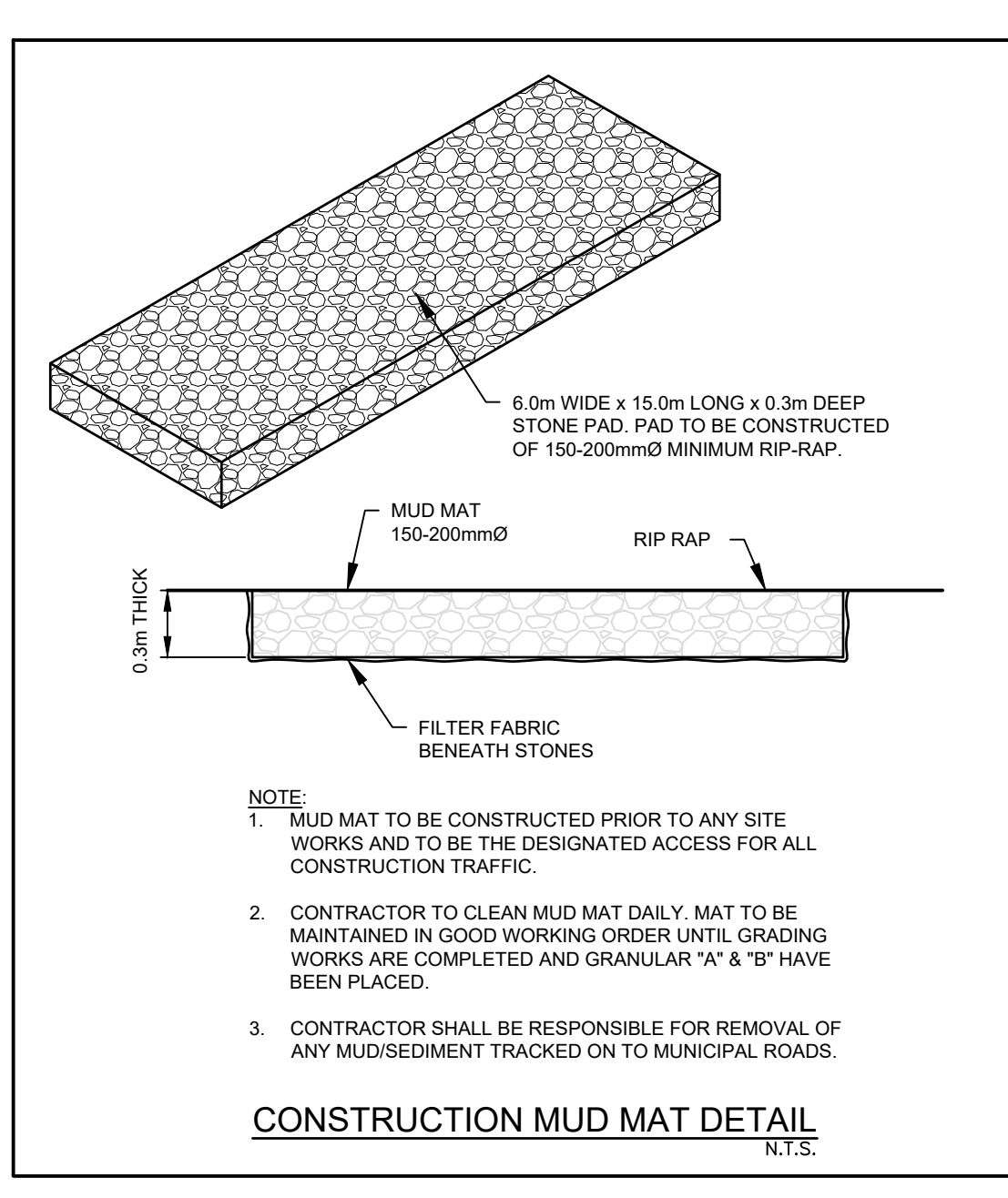
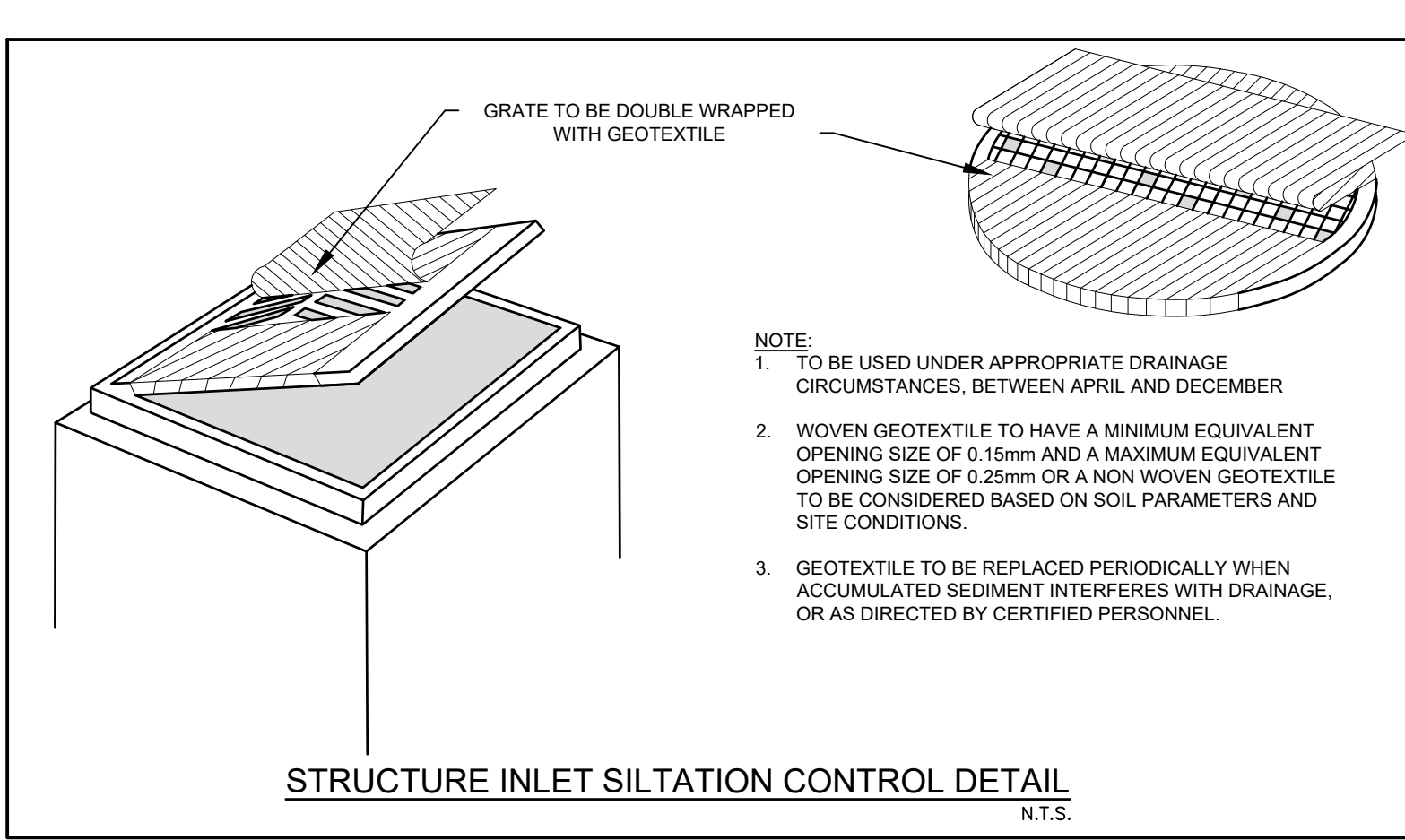
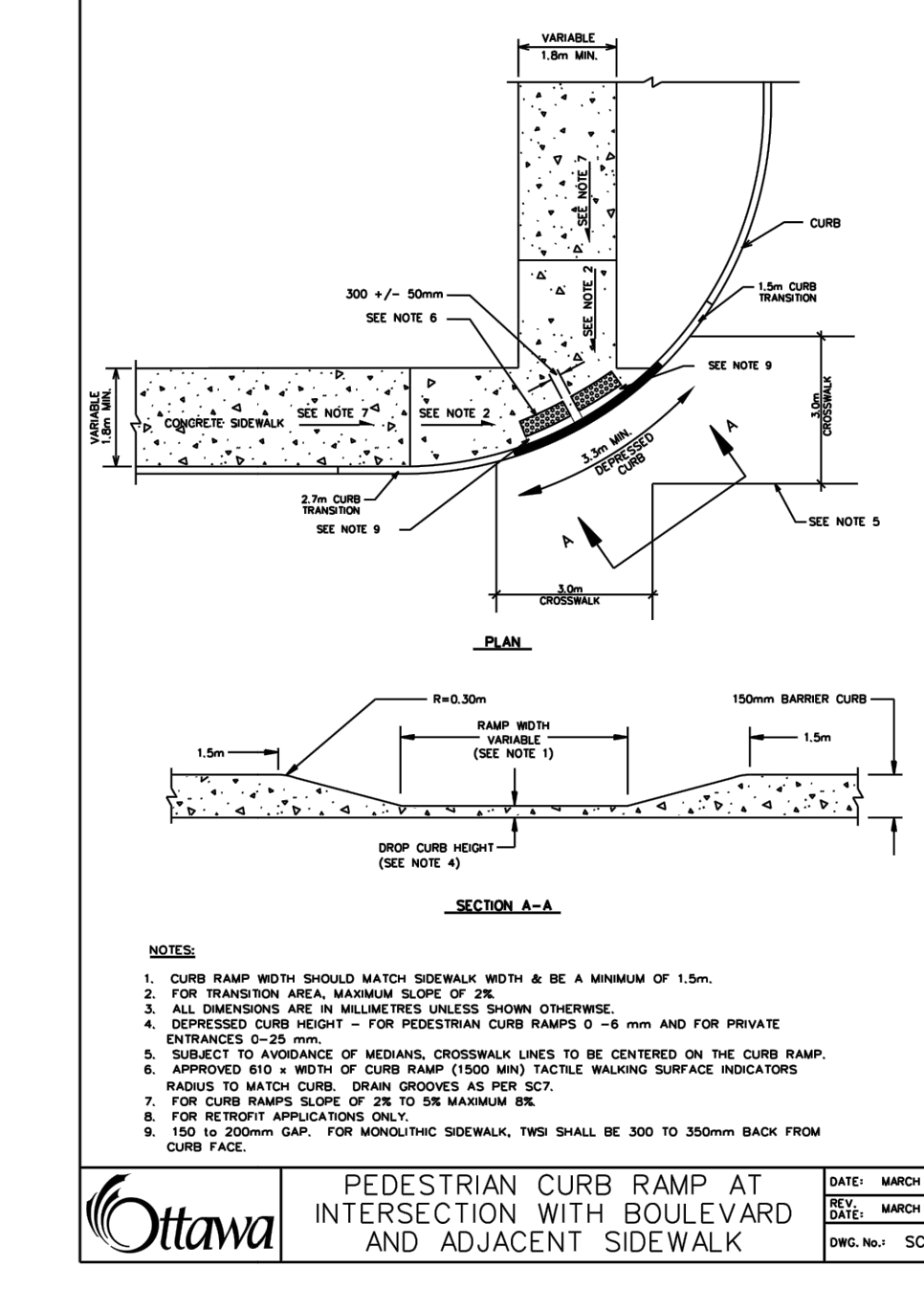
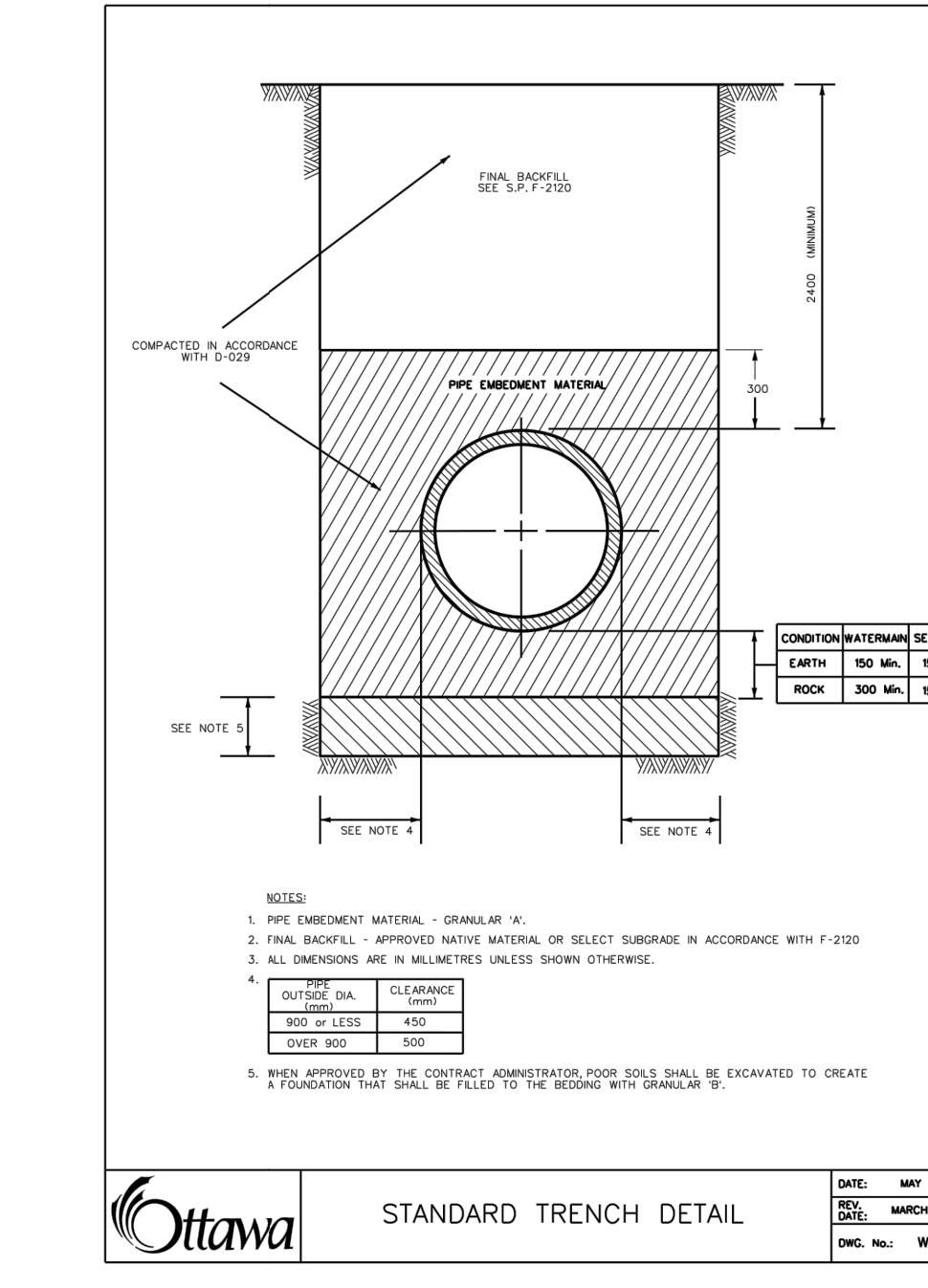
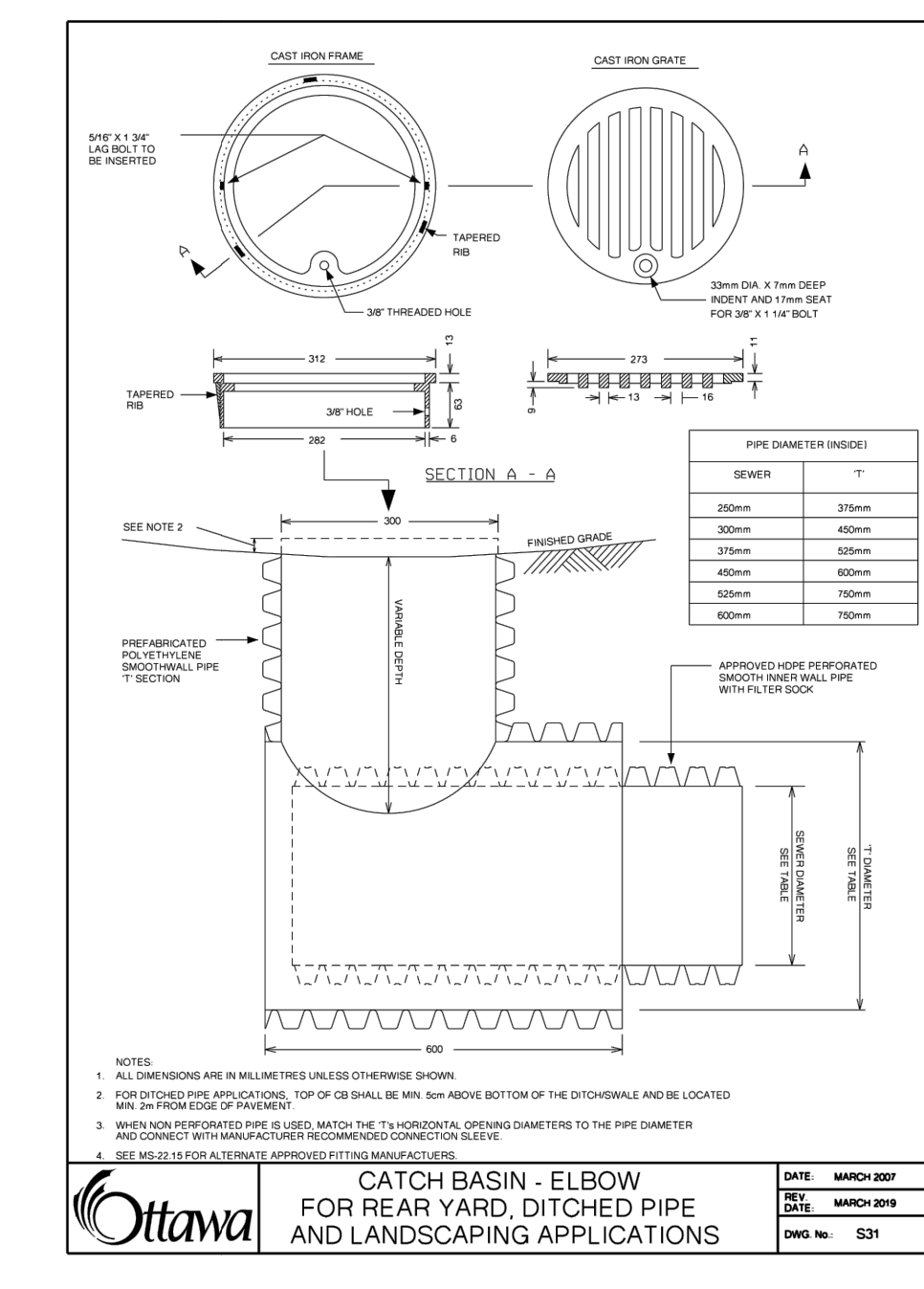
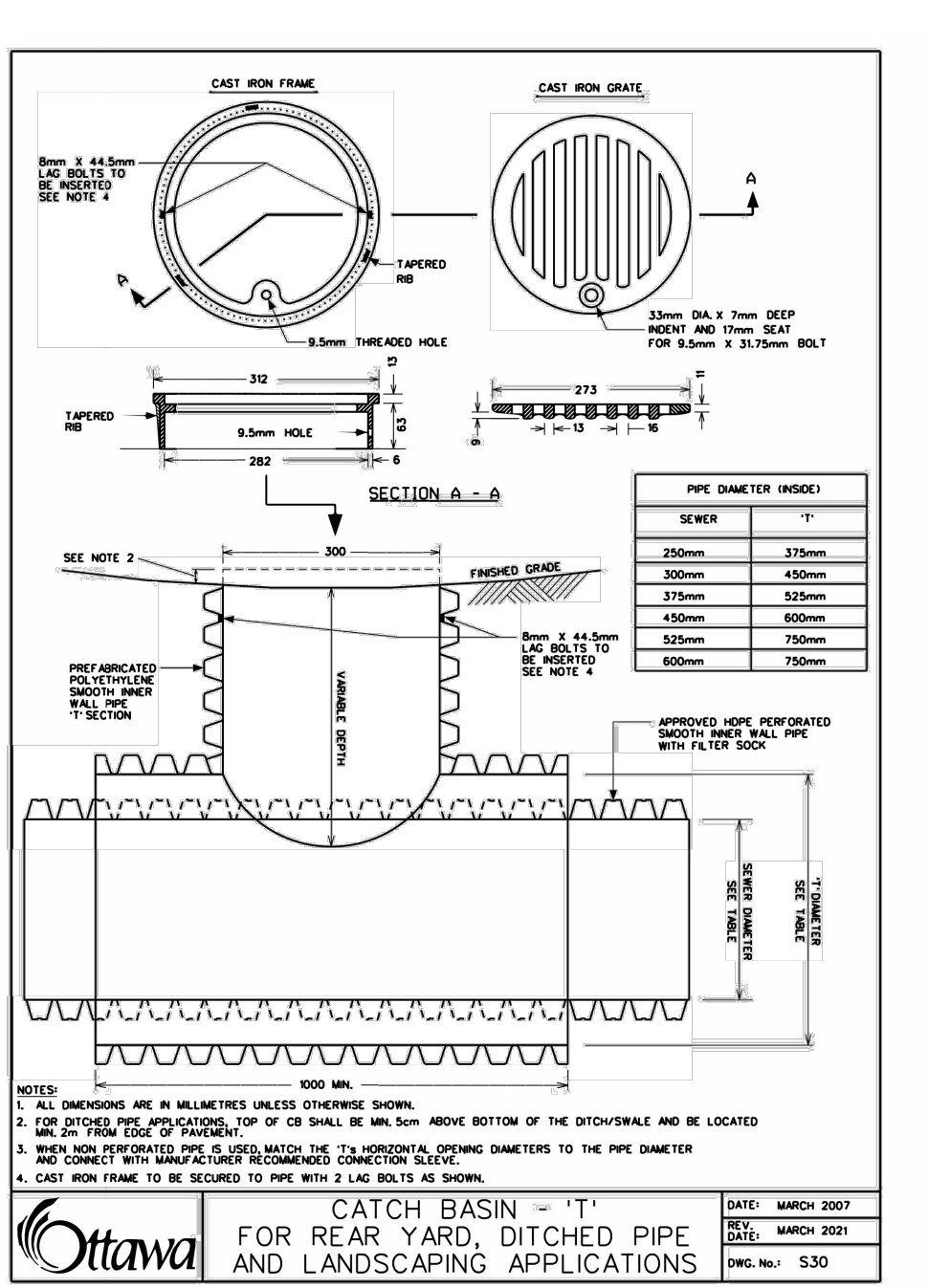
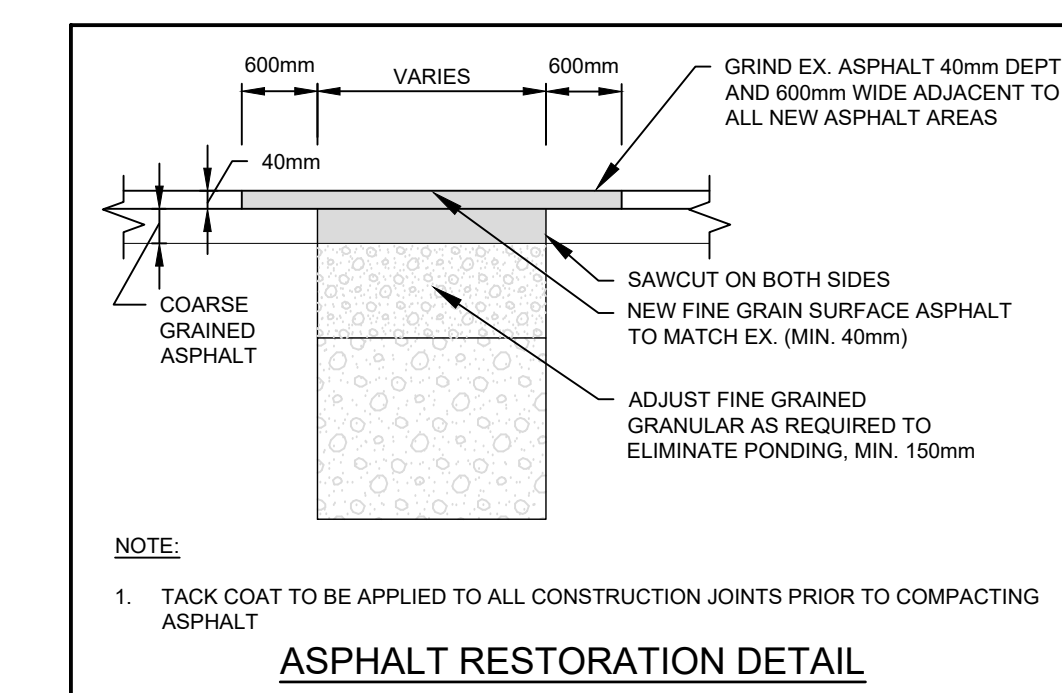
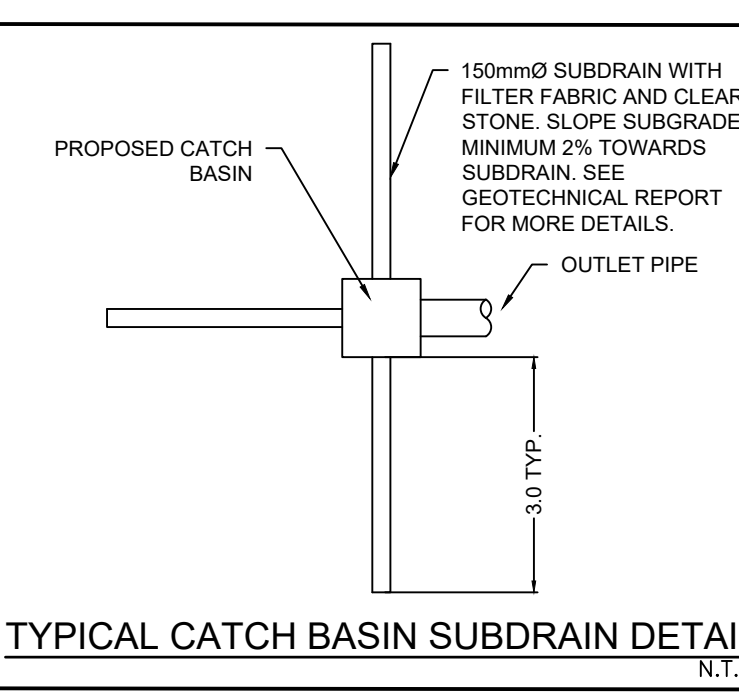
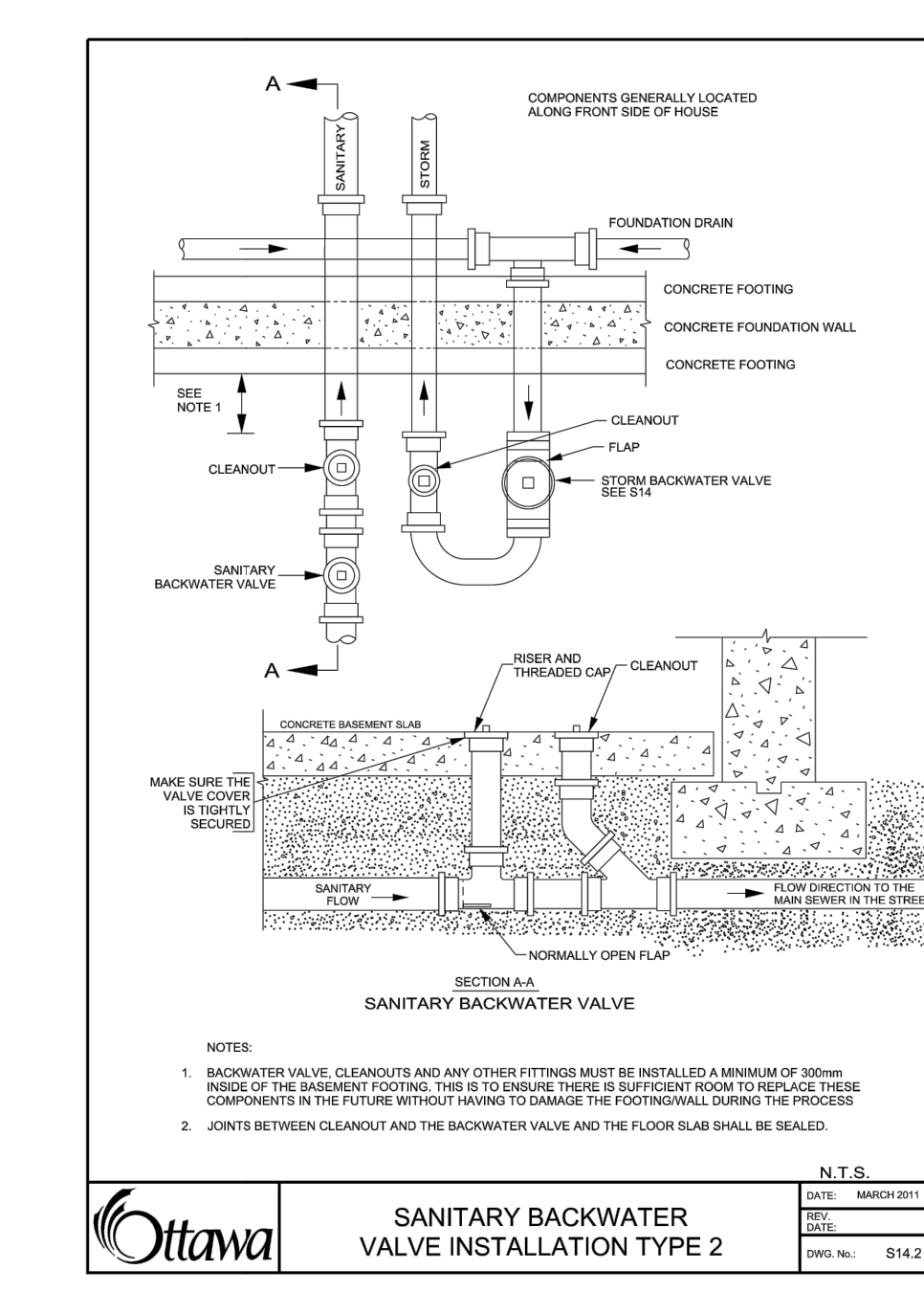
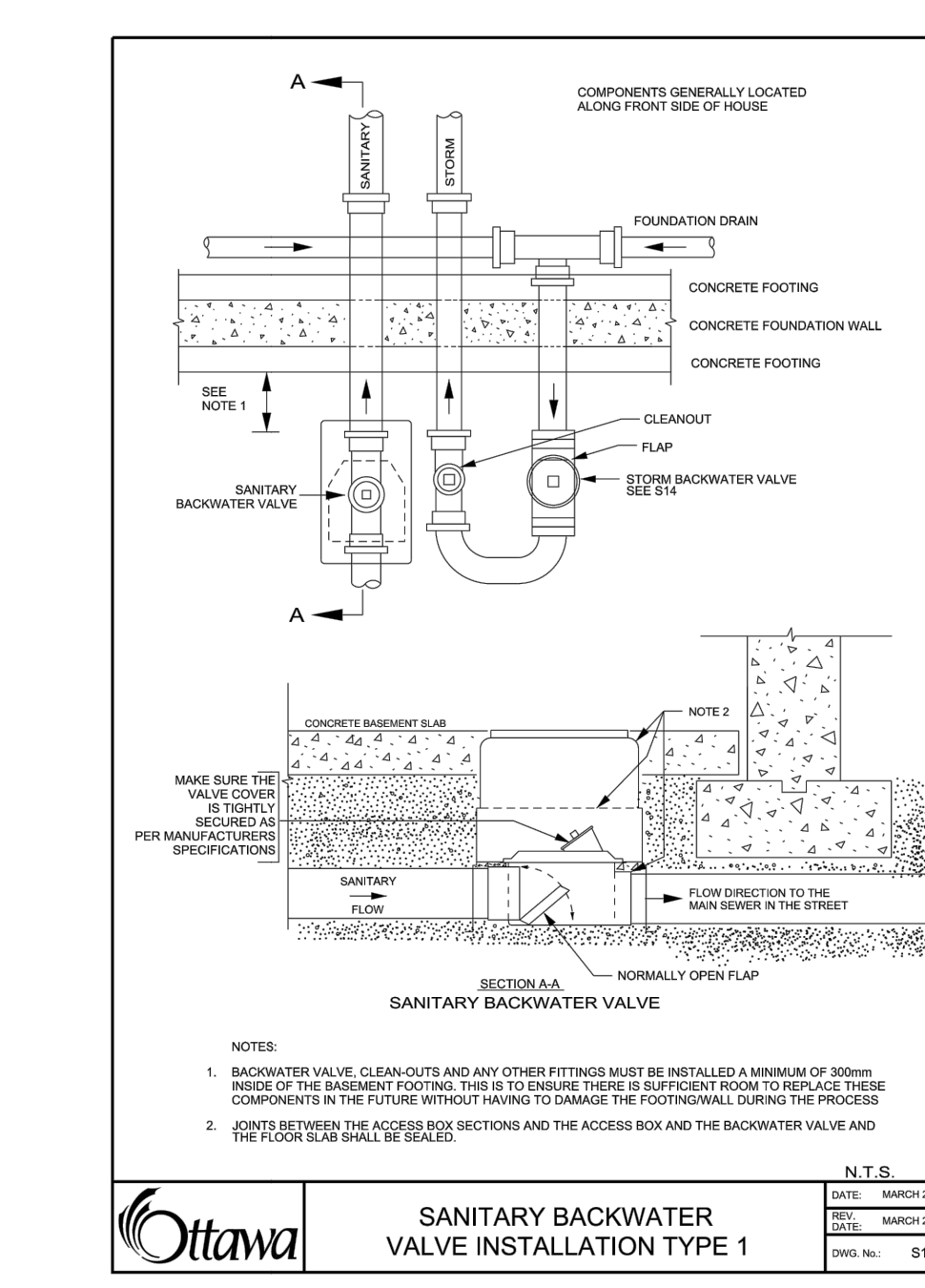
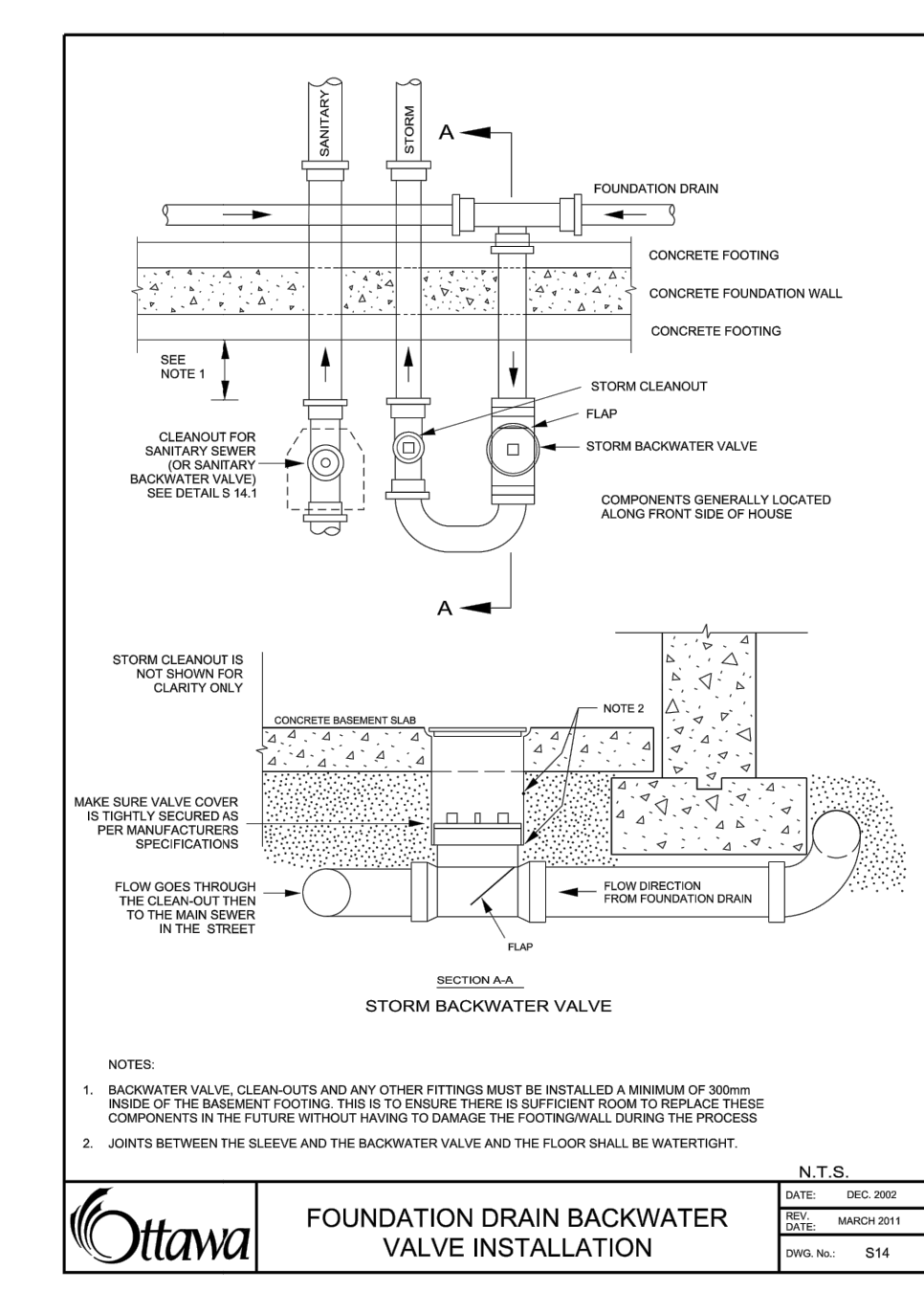
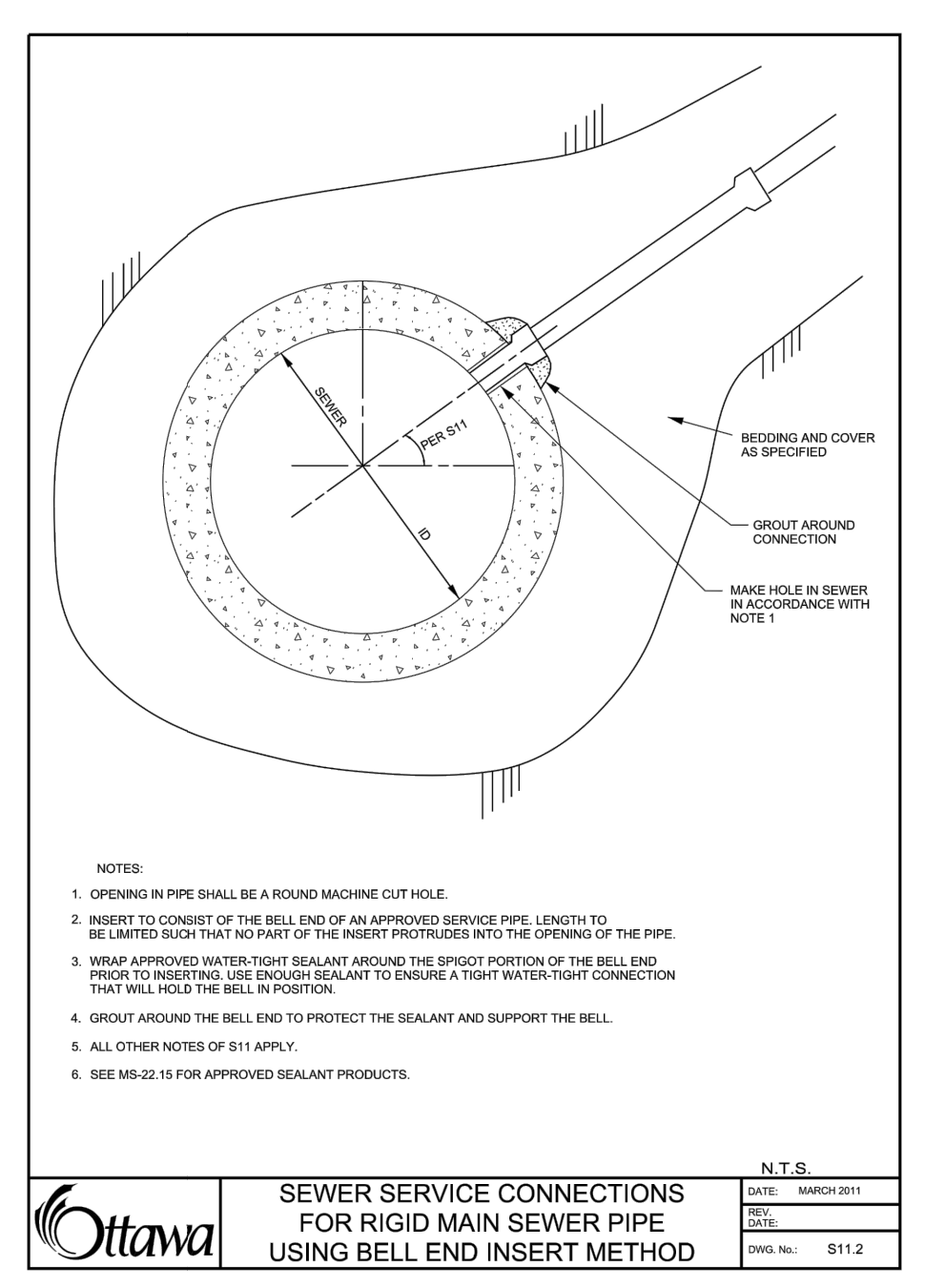
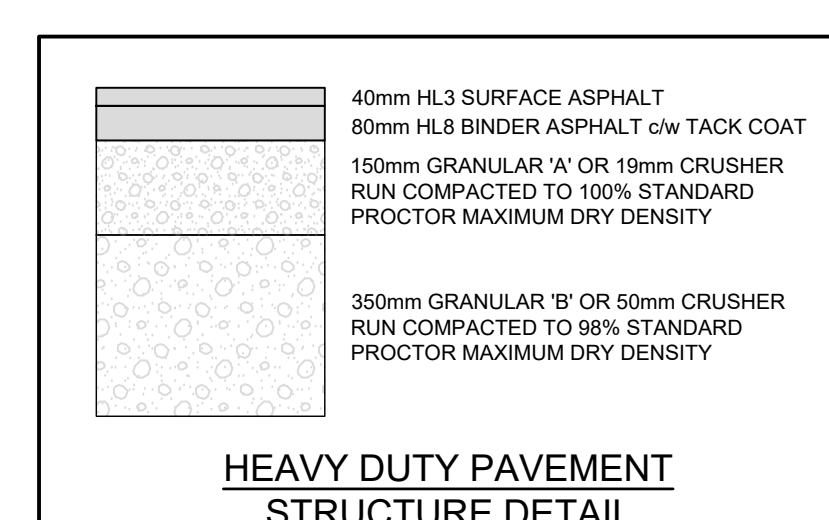
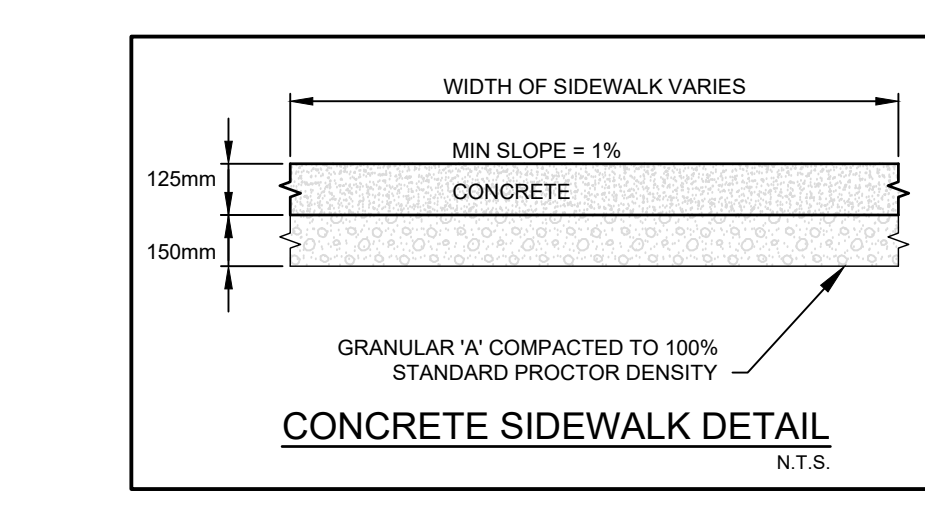
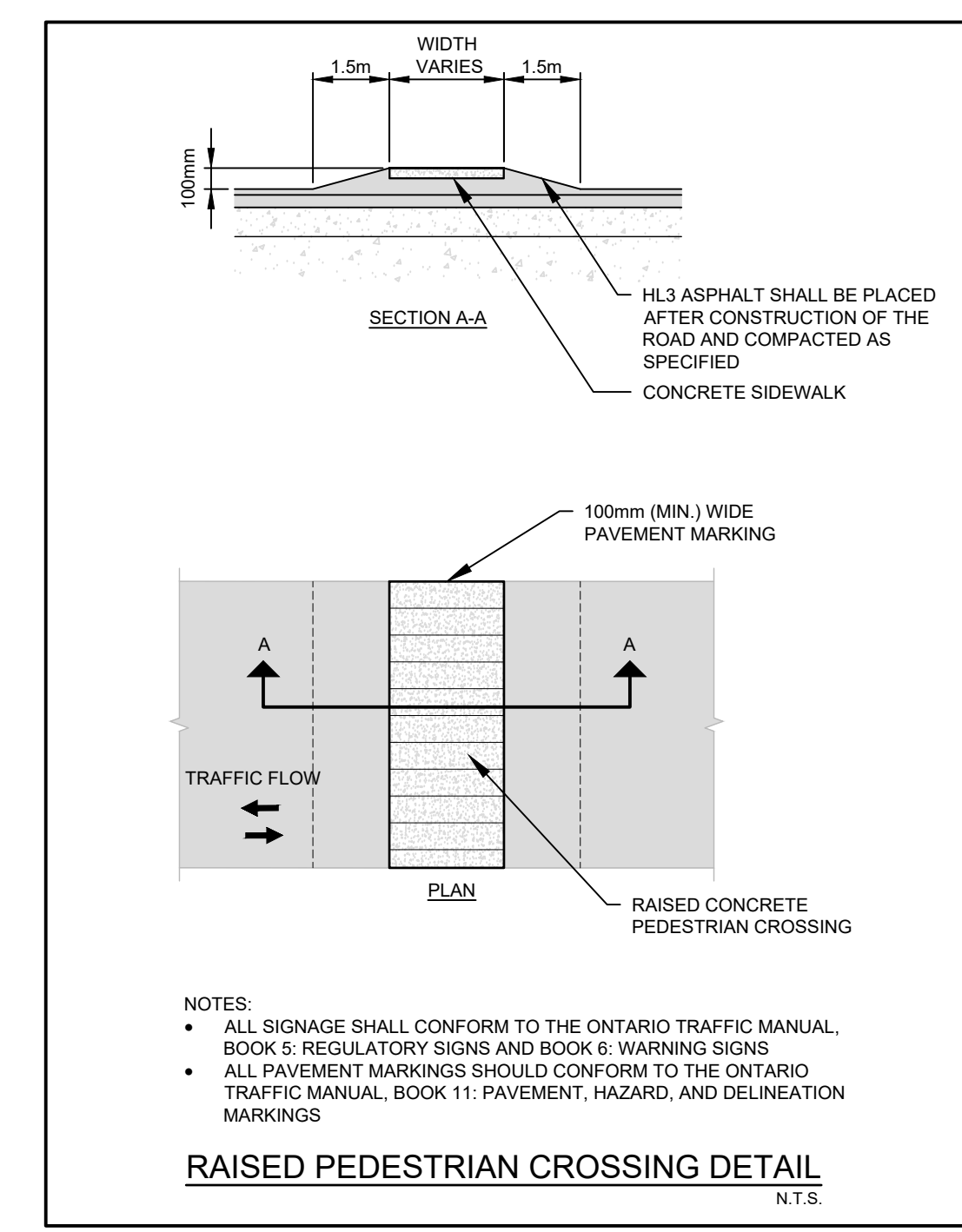
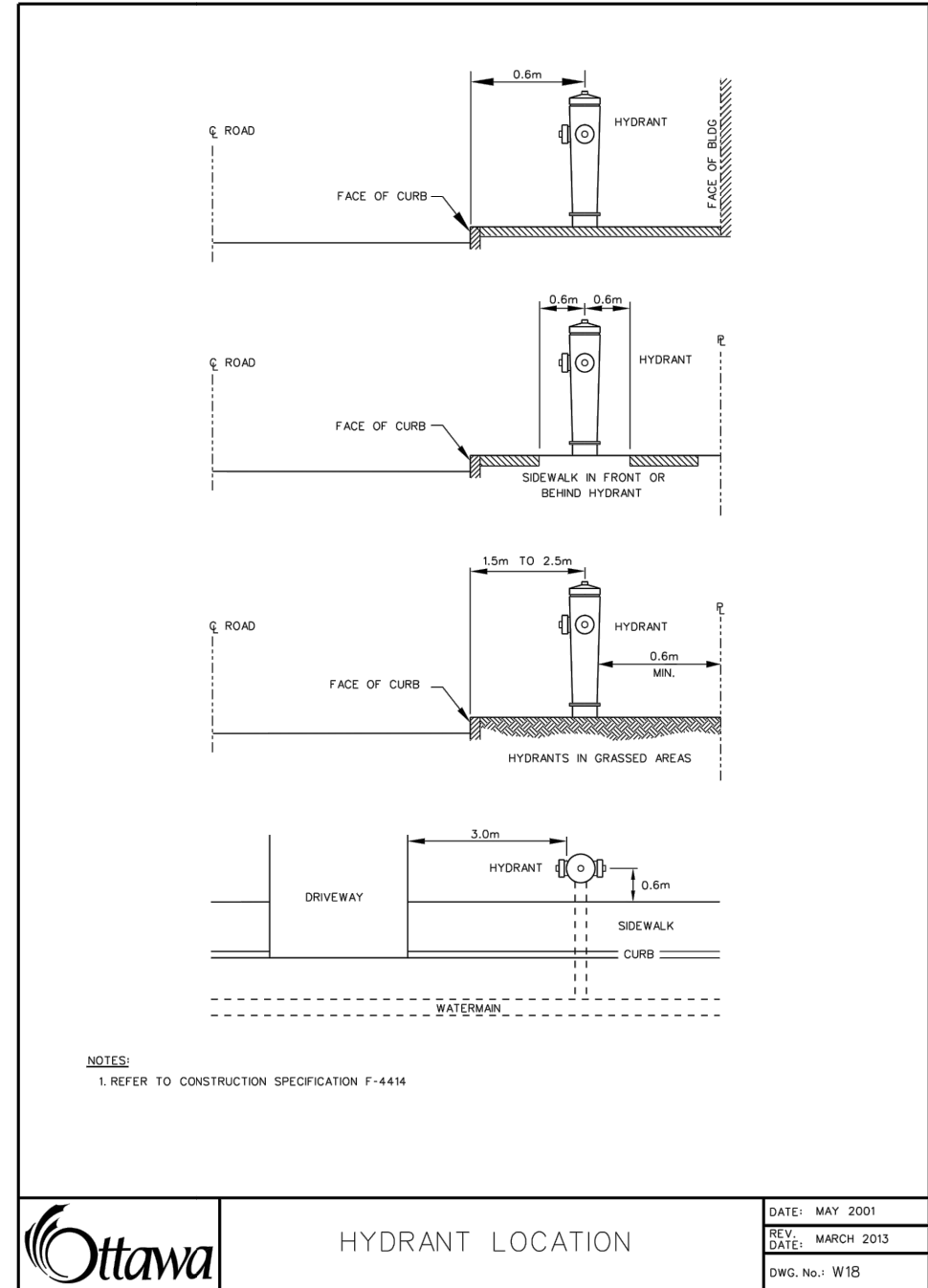
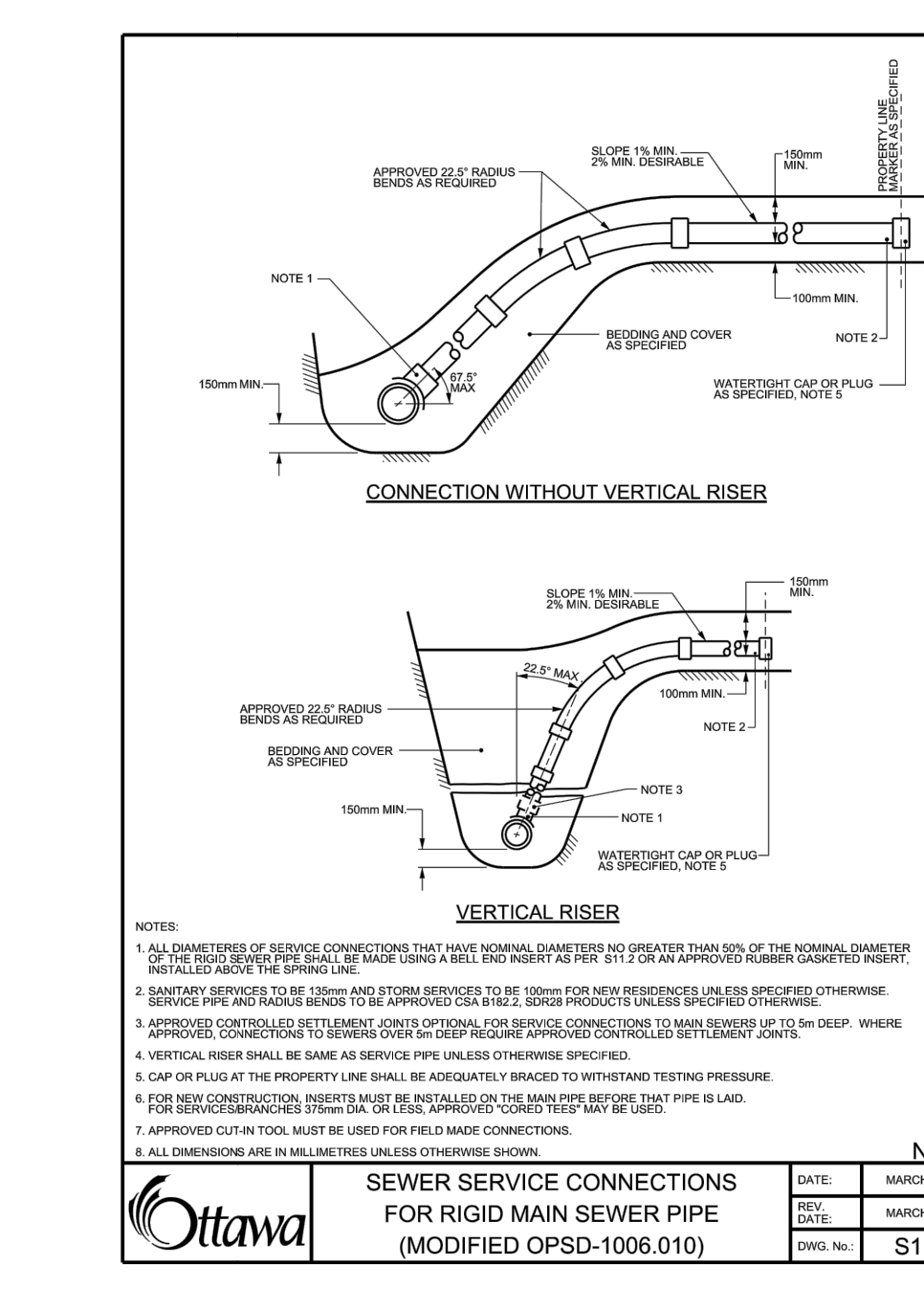
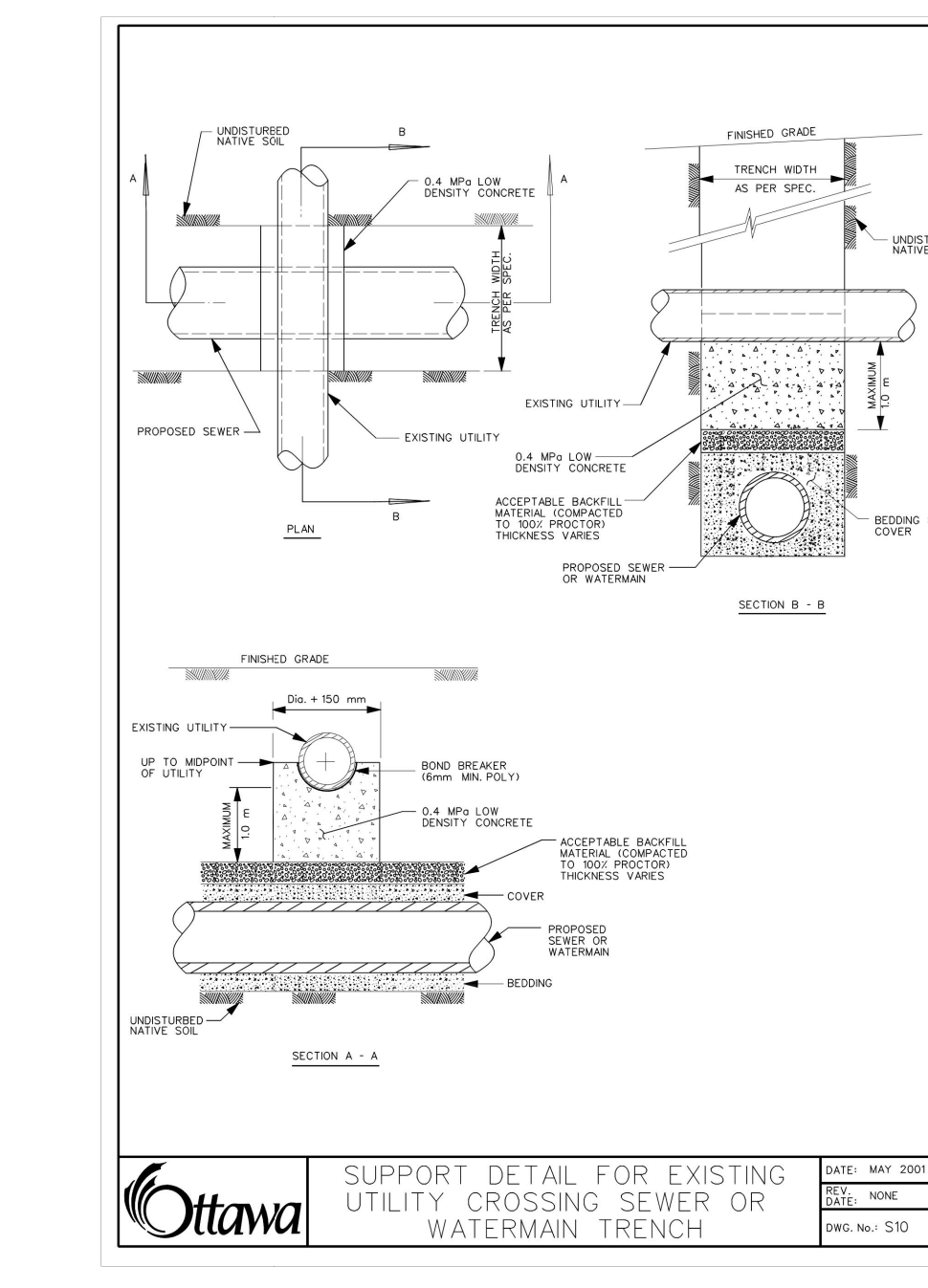
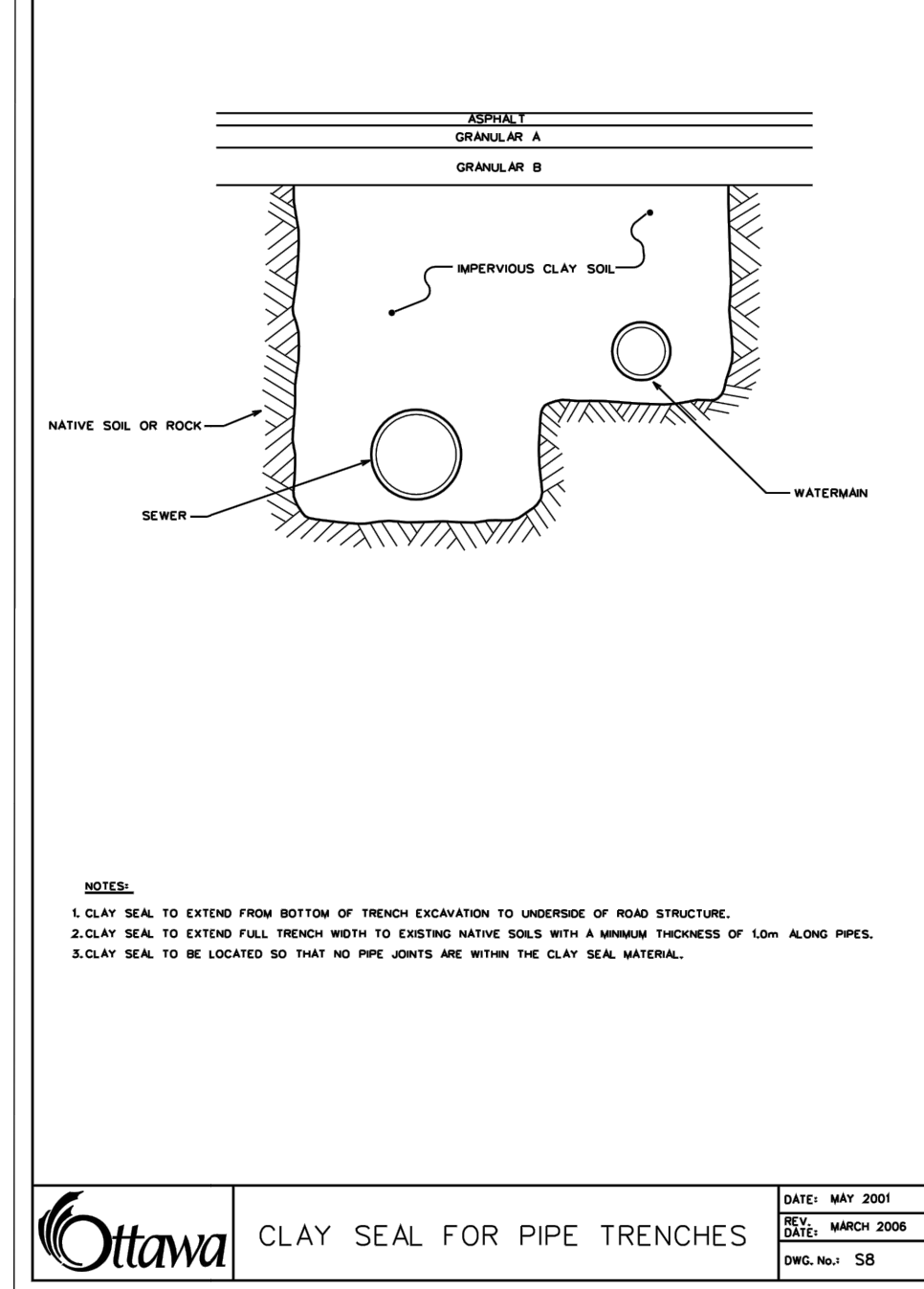
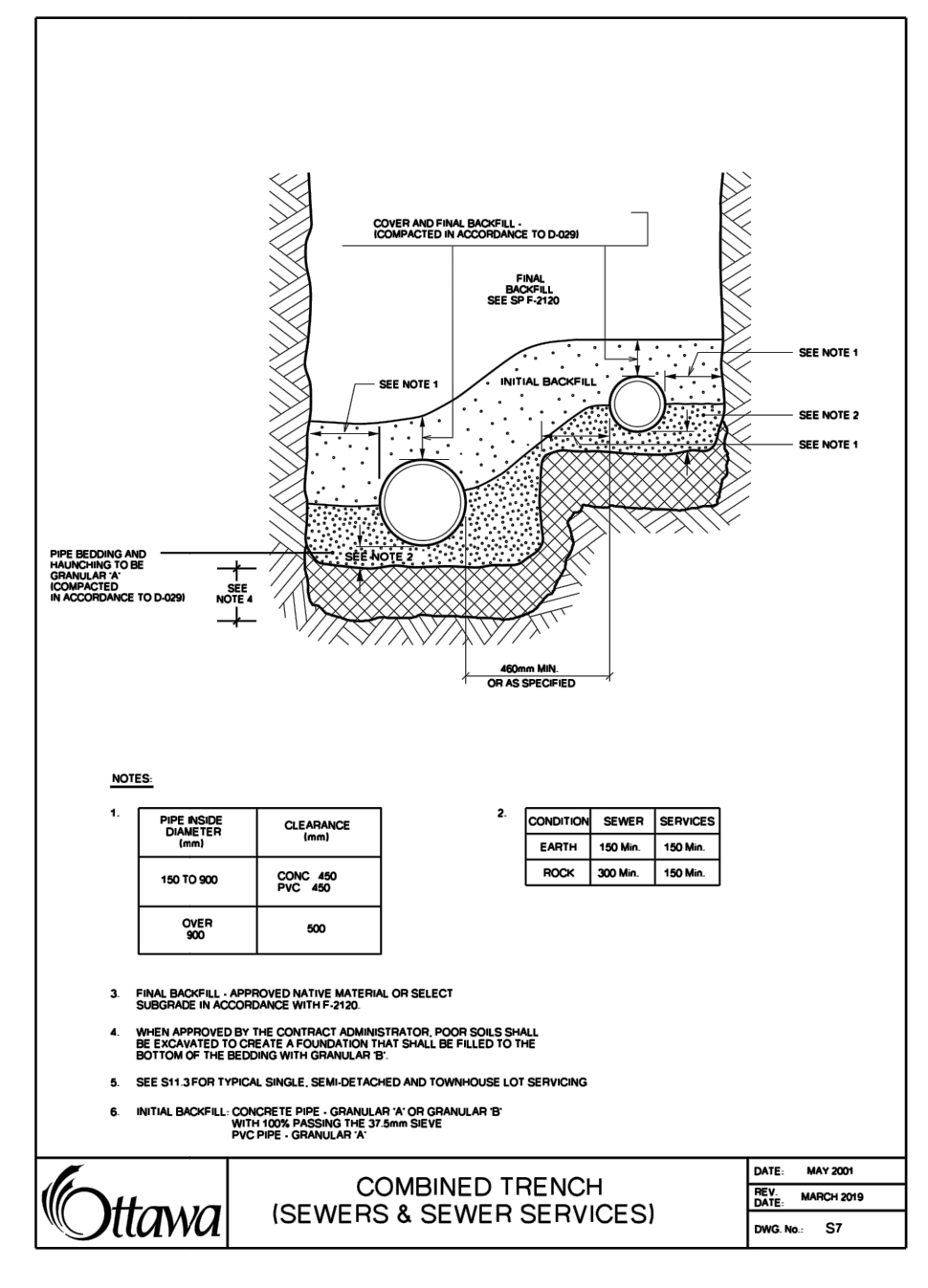
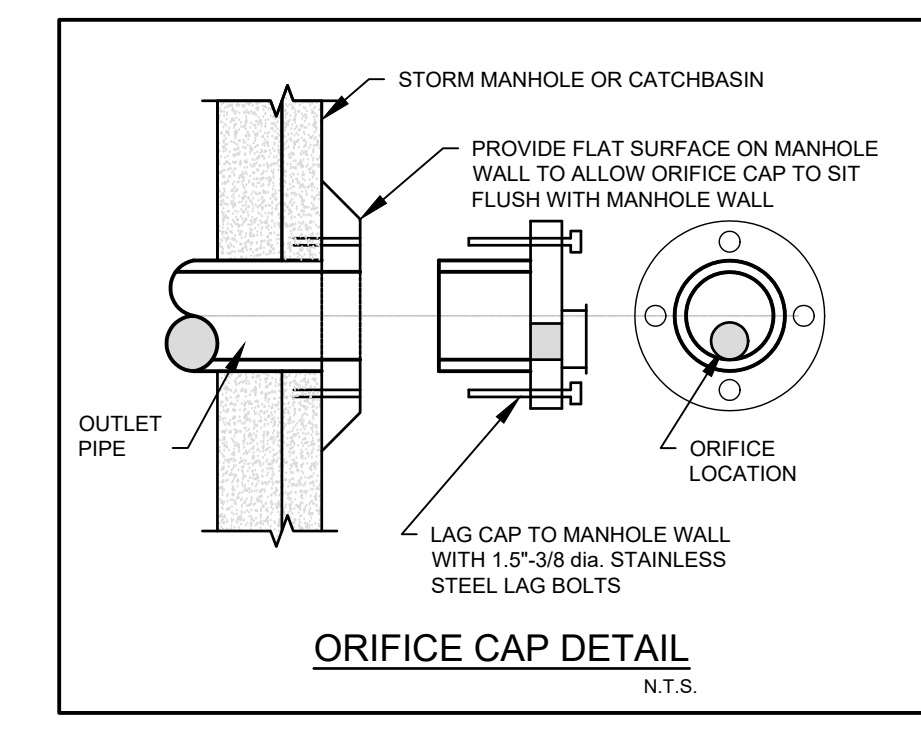
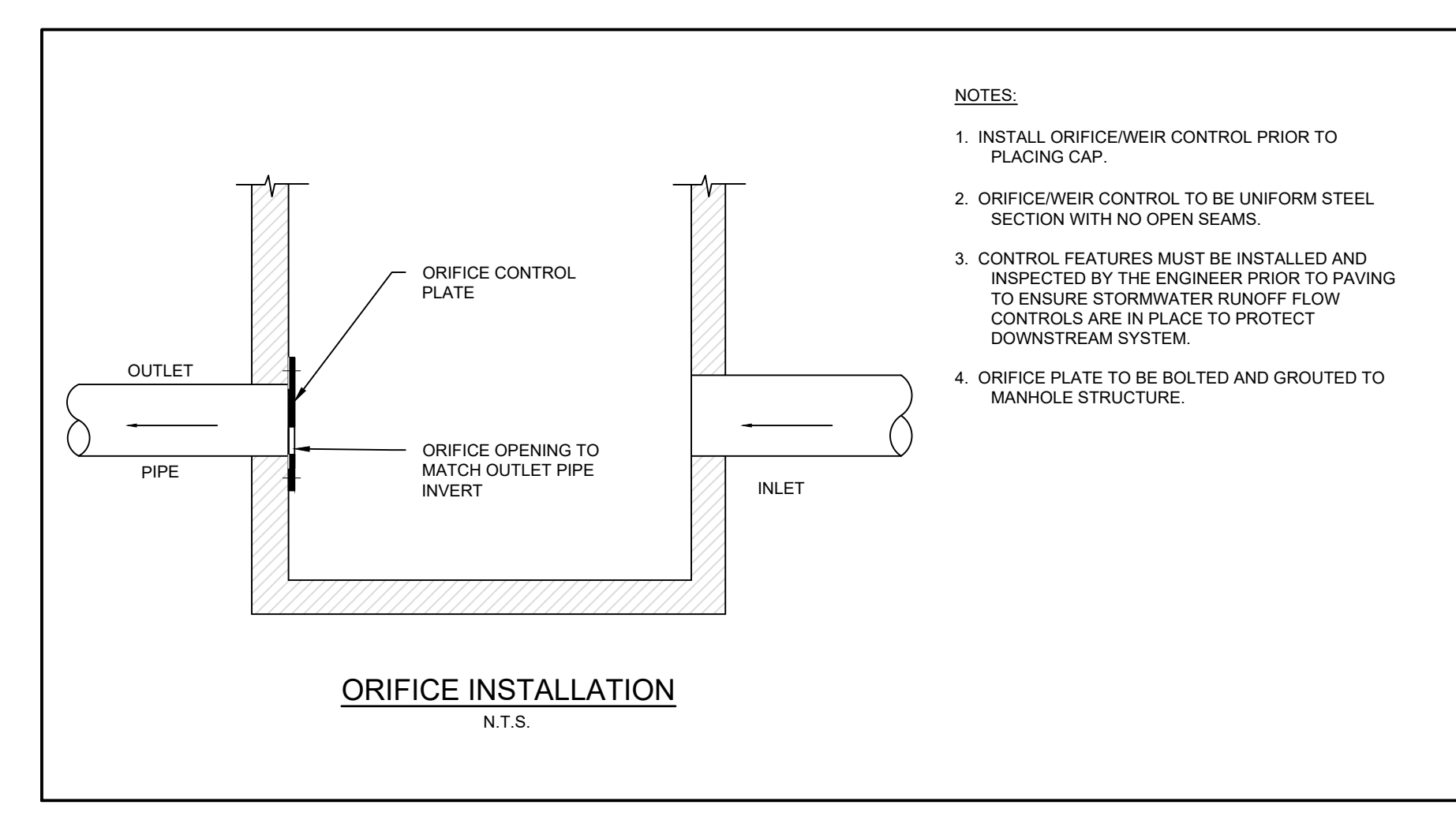
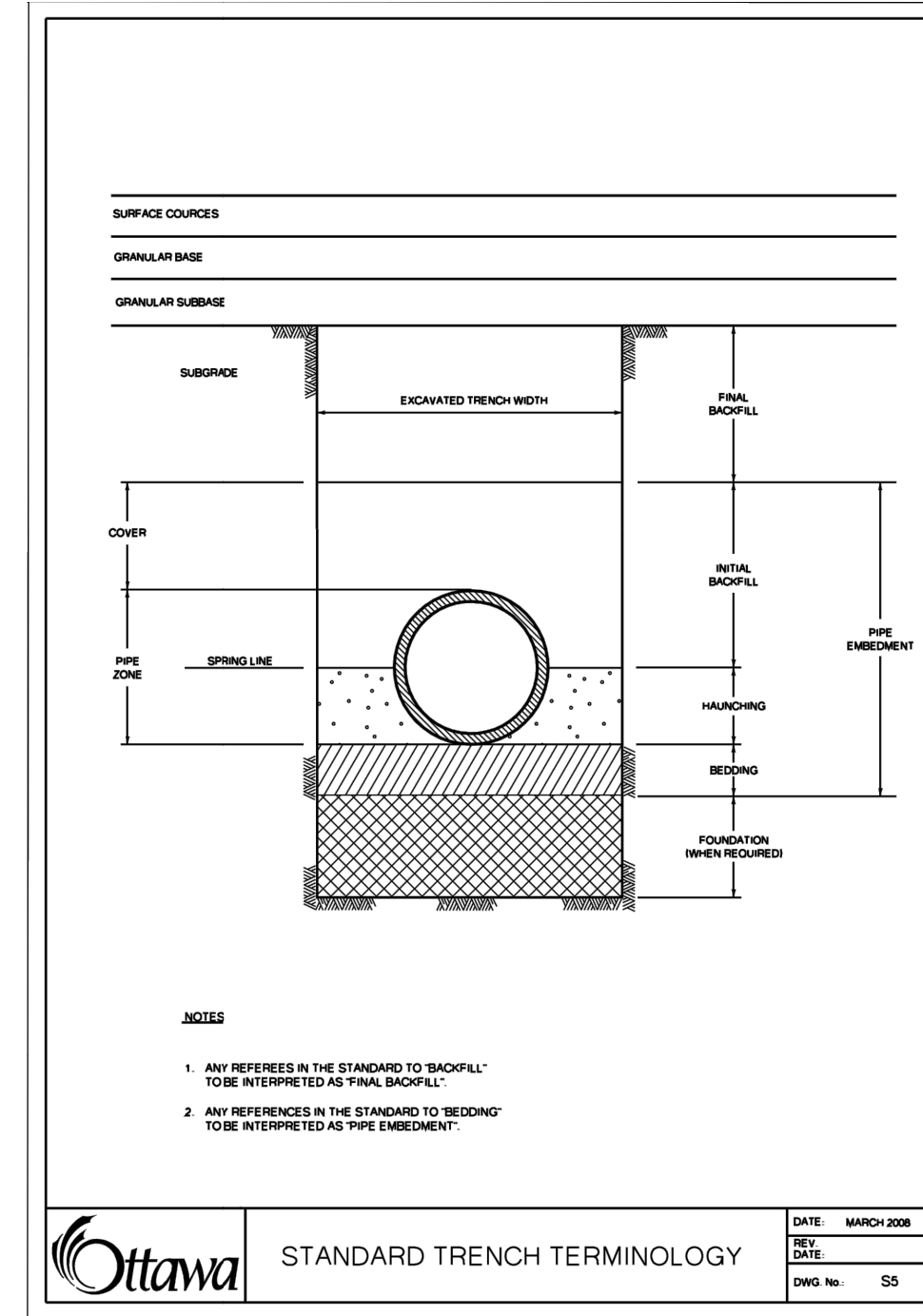
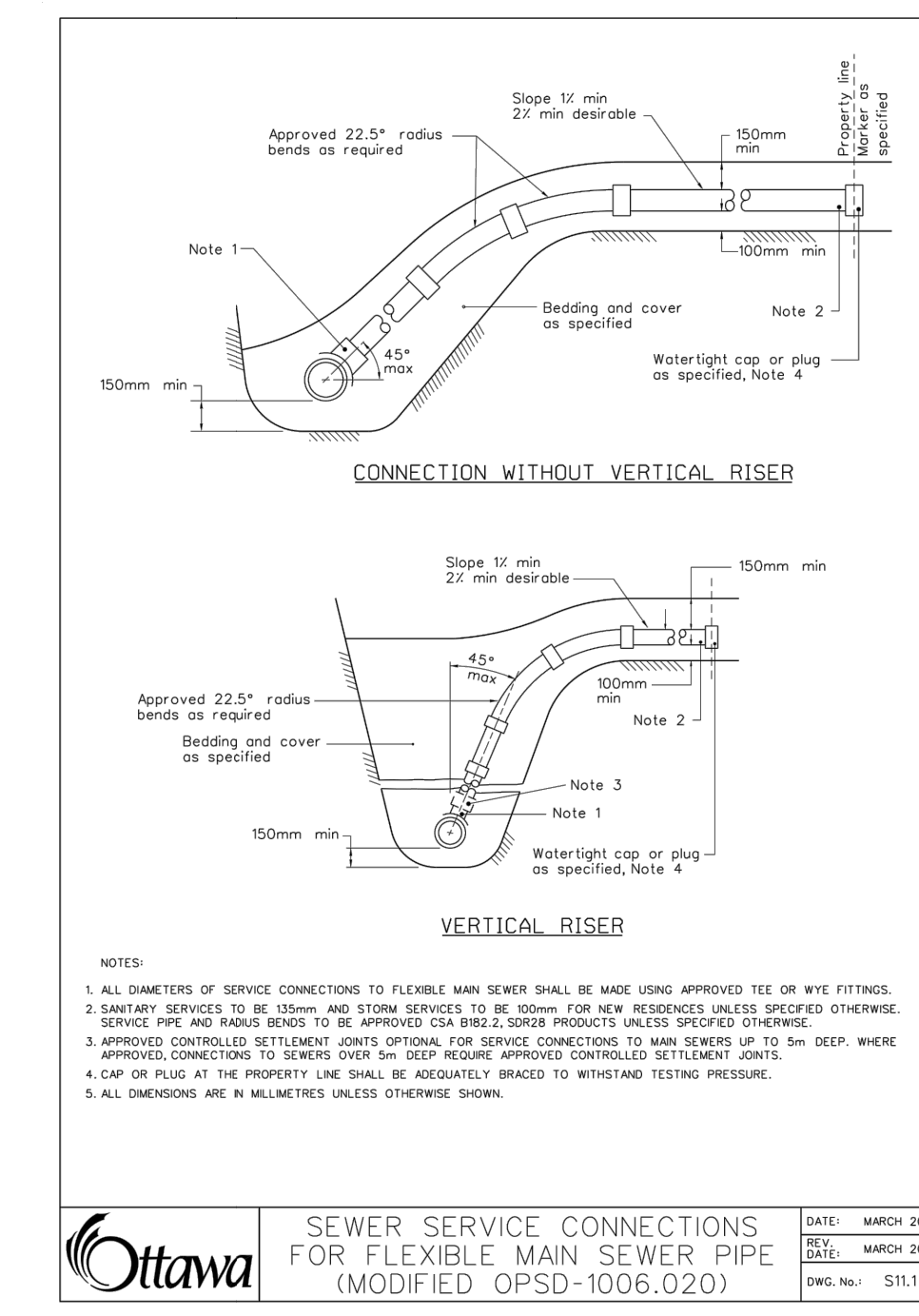
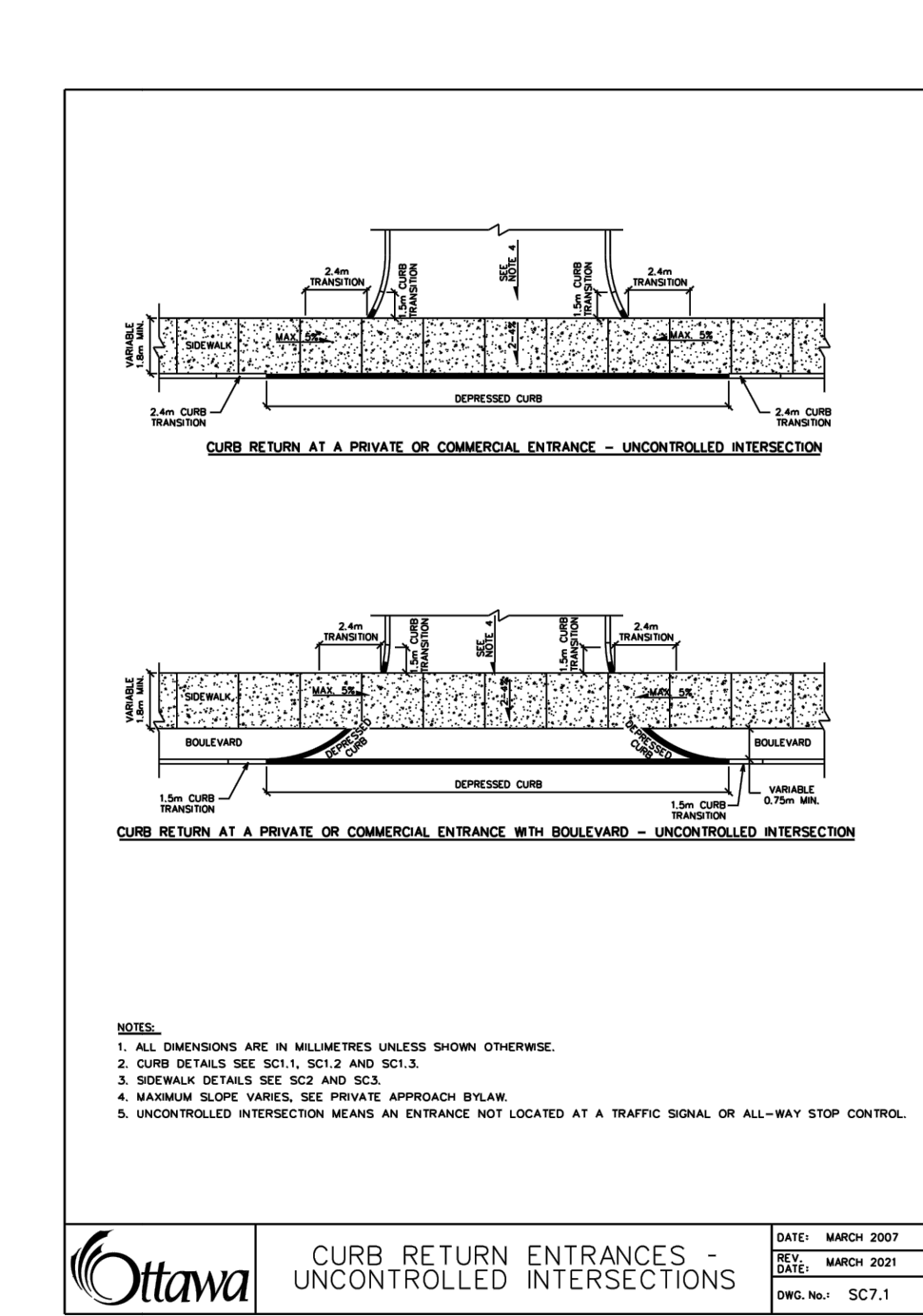
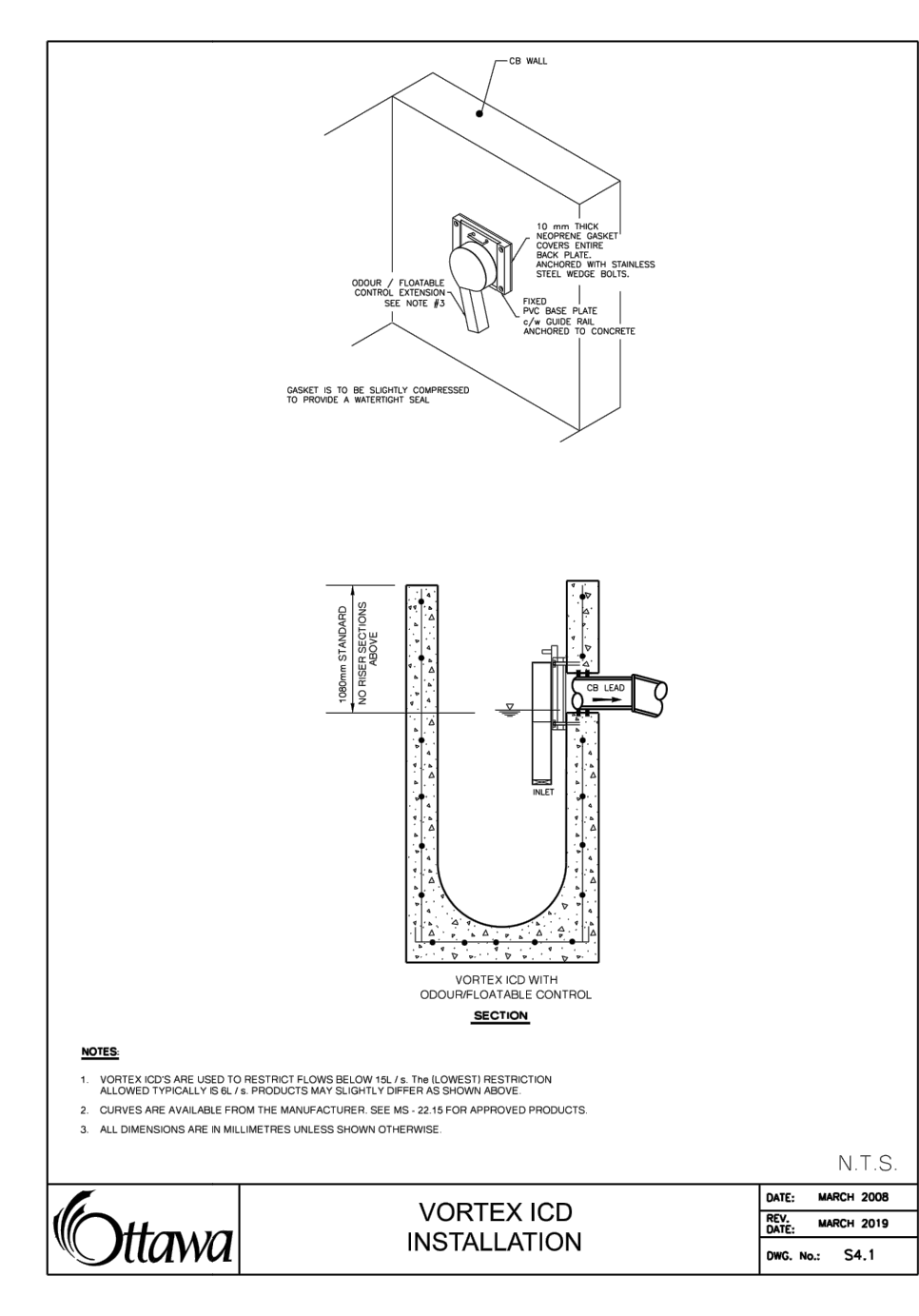
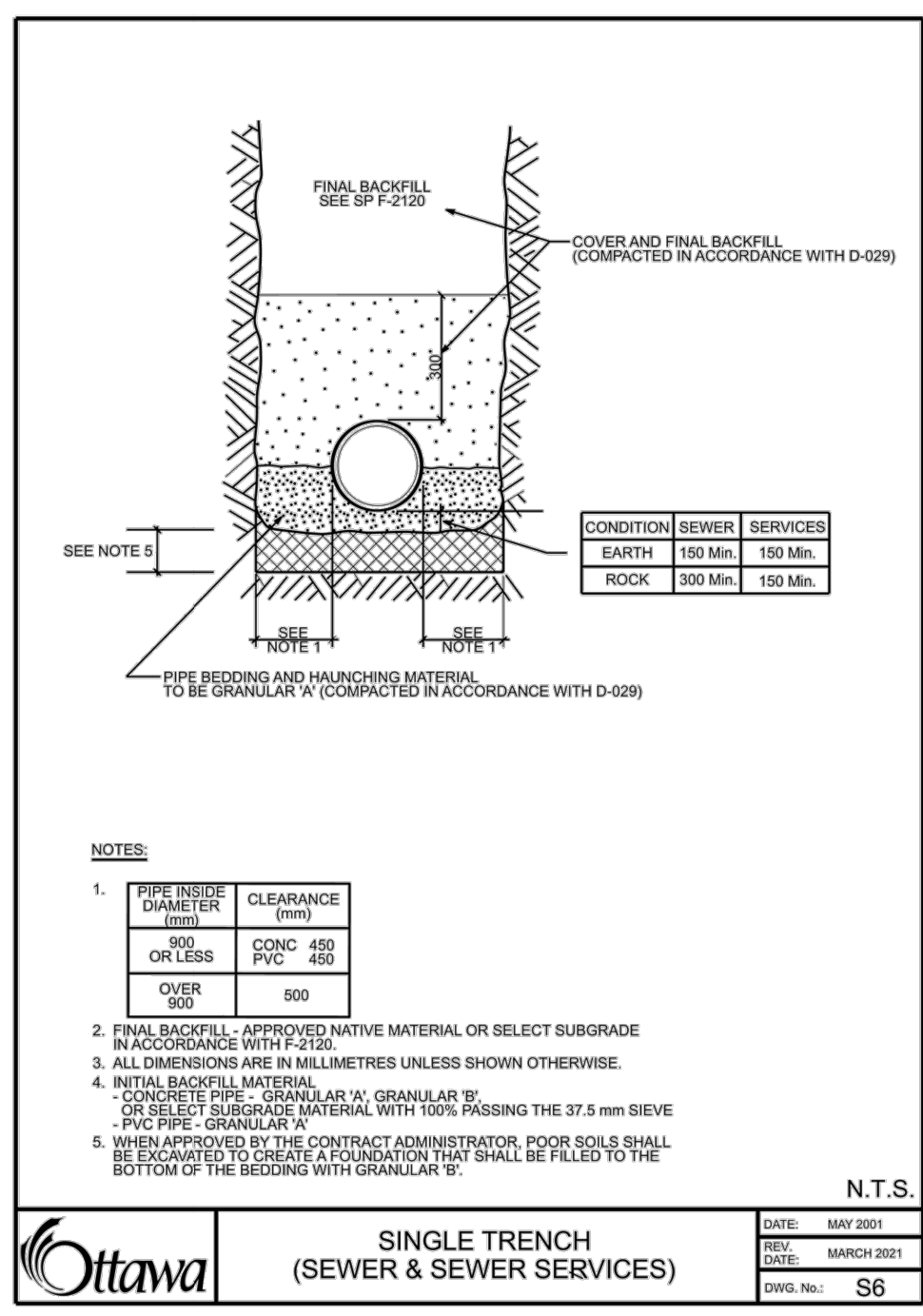
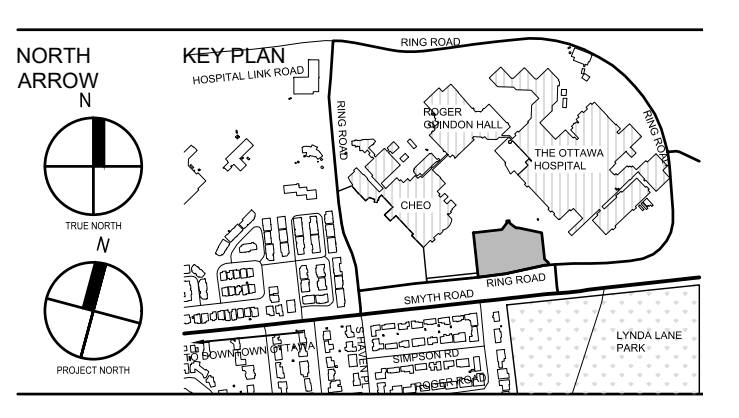


TWSI Detail
 DATE: FEBRUARY 2011
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: SC1.3



Asphalt Walkway
 DATE: FEBRUARY 2011
 DRAWN: JMM
 CHECKED: JMM
 REVISED: NONE
 SHEET NO: SC2.0





2 2023-08-16 ISSUED FOR SPC SUBMISSION
1 2023-07-31 ISSUED FOR 50% DD SUBMISSION
0 2023-04-20 ISSUED FOR TECHNICAL SUBMISSION

DATE: 2023-08-16
REVISION: 01

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DATE: 2023-08-16
PROVINCE OF ONTARIO

CLIENT: 1DOOR4CARE: CHEO INTEGRATED TREATMENT CENTRE: PARKING GARAGE

401 BAYTH RD, OTTAWA, ON K1M1L1

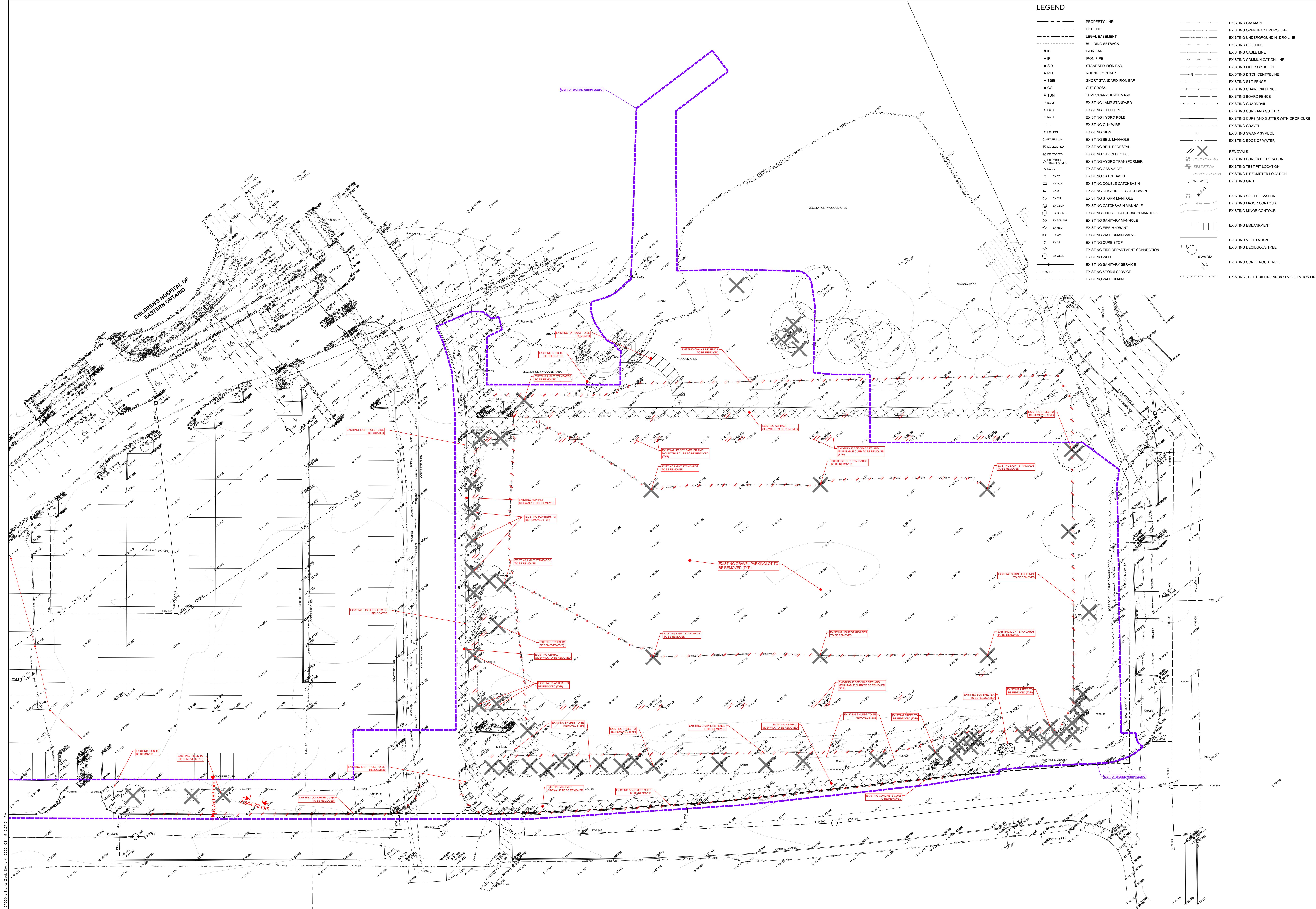
TITLE: TYPICAL DETAILS AND NOTES PLAN (SHEET 3 OF 3)

SCALE: AS NOTED
DRAWN BY: DR/RS
REVIEWED BY: RK
JOB NUMBER: 2021-0821-10
PLOT DATE: 2023-08-16
DRAWING NUMBER: C0004

PLAN # 18912
DEVELOPMENT # D07-12-22-0170

LEGEND

| | | | |
|-----|-------------------------------------|-----|---|
| --- | EXISTING GASMAIN | --- | EXISTING UNDERGROUND HYDRO LINE |
| --- | EXISTING OVERHEAD HYDRO LINE | --- | EXISTING BELL LINE |
| --- | EXISTING LEGAL EASEMENT | --- | EXISTING CABLE LINE |
| --- | EXISTING BUILDING SETBACK | --- | EXISTING COMMUNICATION LINE |
| --- | IRON BAR | --- | EXISTING FIBER OPTIC LINE |
| --- | IRON PIPE | --- | EXISTING DITCH CENTRELINE |
| --- | STANDARD IRON BAR | --- | EXISTING SILT FENCE |
| --- | ROUND IRON BAR | --- | EXISTING CHAINLINK FENCE |
| --- | SHORT STANDARD IRON BAR | --- | EXISTING BOARD FENCE |
| --- | CUT CROSS | --- | EXISTING GUARDRAIL |
| --- | TEMPORARY BENCHMARK | --- | EXISTING CURB AND GUTTER |
| --- | EXISTING LAMP STANDARD | --- | EXISTING CURB AND GUTTER WITH DROP CURB |
| --- | EXISTING UTILITY POLE | --- | EXISTING GRAVEL |
| --- | EXISTING HYDRO POLE | --- | EXISTING SWAMP SYMBOL |
| --- | EXISTING GUY WIRE | --- | EXISTING EDGE OF WATER |
| --- | EXISTING SIGN | --- | REMOVALS |
| --- | EXISTING BELL MANHOLE | --- | EXISTING BOREHOLE LOCATION |
| --- | EXISTING BELL PEDESTAL | --- | EXISTING TEST PIT LOCATION |
| --- | EXISTING CTV PEDESTAL | --- | EXISTING PIZOMETER LOCATION |
| --- | EXISTING HYDRO TRANSFORMER | --- | EXISTING GATE |
| --- | EXISTING GAS VALVE | --- | EXISTING SPOT ELEVATION |
| --- | EXISTING CATCHBASIN | --- | EXISTING MAJOR CONTOUR |
| --- | EXISTING DOUBLE CATCHBASIN | --- | EXISTING MINOR CONTOUR |
| --- | EXISTING DITCH INLET CATCHBASIN | --- | EXISTING EMBANKMENT |
| --- | EXISTING STORM MANHOLE | --- | EXISTING VEGETATION |
| --- | EXISTING CATCHBASIN MANHOLE | --- | EXISTING DECIDUOUS TREE |
| --- | EXISTING DOUBLE CATCHBASIN MANHOLE | --- | EXISTING CONIFEROUS TREE |
| --- | EXISTING SANITARY MANHOLE | --- | EXISTING TREE DRIPLINE AND/OR VEGETATION LINE |
| --- | EXISTING SANITARY MANHOLE | --- | |
| --- | EXISTING FIRE HYDRANT | --- | |
| --- | EXISTING WATERMAN VALVE | --- | |
| --- | EXISTING CURB STOP | --- | |
| --- | EXISTING FIRE DEPARTMENT CONNECTION | --- | |
| --- | EXISTING WELL | --- | |
| --- | EXISTING SANITARY SERVICE | --- | |
| --- | EXISTING STORM SERVICE | --- | |
| --- | EXISTING WATERMAIN | --- | |



2 2023-08-16 ISSUED FOR SPC SUBMISSION
1 2023-07-31 ISSUED FOR 50% DD SUBMISSION
0 2023-04-20 ISSUED FOR TECHNICAL SUBMISSION

| DATE | REVISION |
|------|----------|
| | |

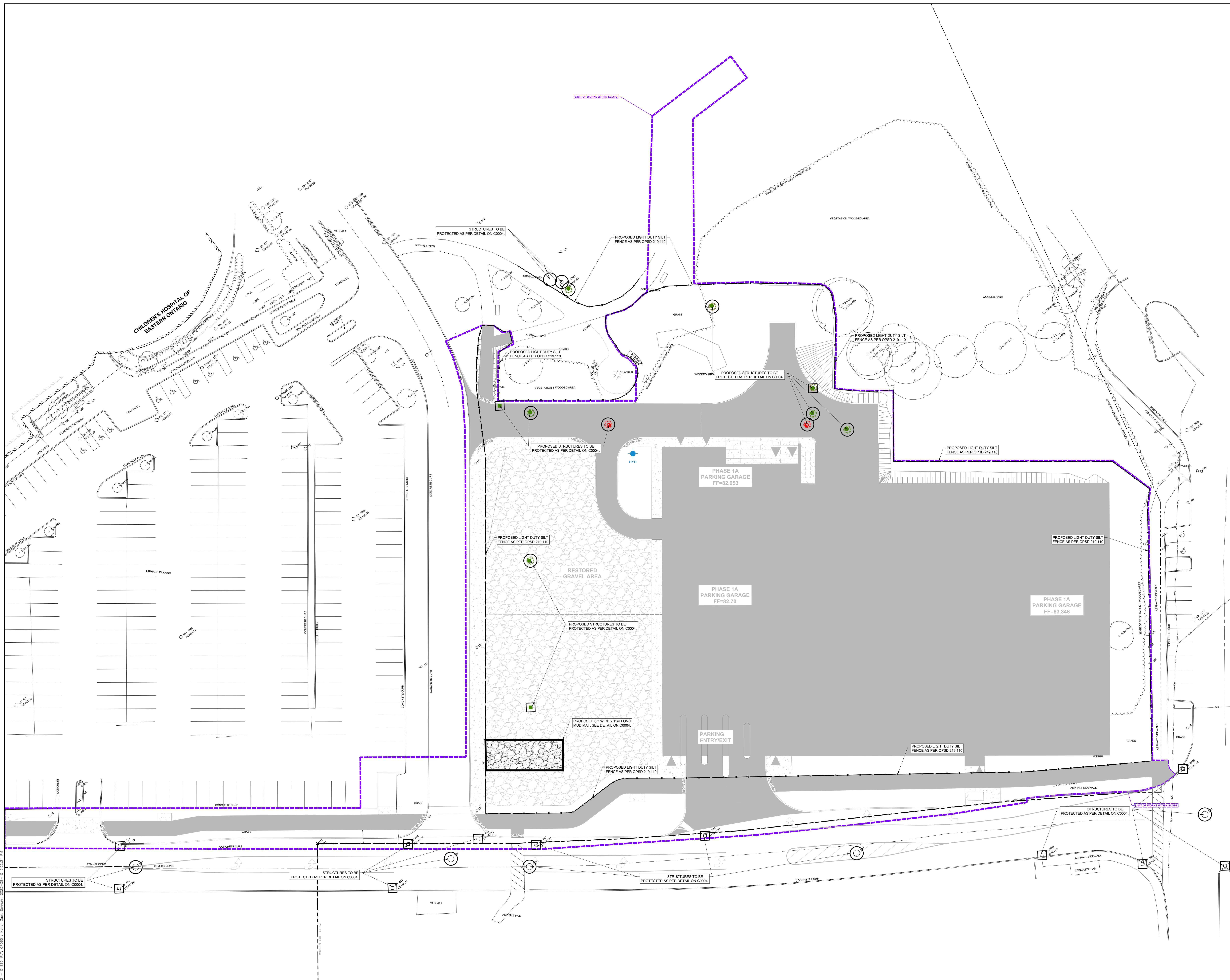
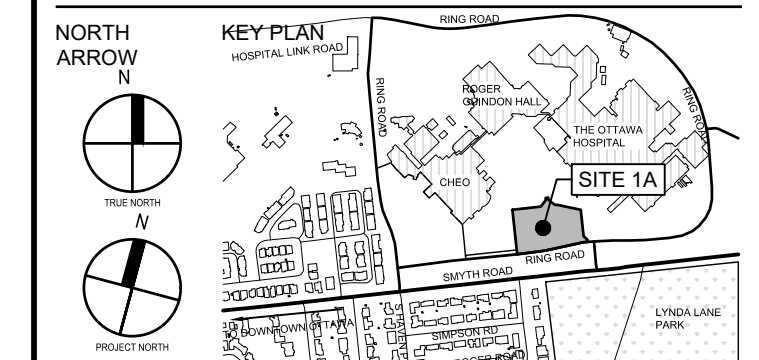
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CLIENT
**1DOOR4CARE: CHEO INTEGRATED
TREATMENT CENTRE: PARKING GARAGE**
401 SMYTH RD, OTTAWA, ON K1M8L1

TITLE
**EXISTING CONDITIONS AND
REMOVALS PLAN - PARKING GARAGE**

SCALE: 1:250
DRAWN BY: DR,RS
REVIEWED BY: RJK
JOB NUMBER: 2021-0821-10
PLOT DATE: 2023-08-16
DRAWING NUMBER

CP0501
PLAN # 18912
DEVELOPMENT # D07-12-22-0170



LEGEND

| | |
|--|-------------------------------------|
| | HEAVY DUTY SILT FENCE |
| | LIGHT DUTY SILT FENCE |
| | CONSTRUCTION FENCING |
| | HAY BALES/ CORR LOGS |
| | TEMPORARY INTERCEPTOR SWALE |
| | EXISTING CATCHBASIN TO BE PROTECTED |
| | PROPOSED CATCHBASIN TO BE PROTECTED |
| | EXISTING CONTOUR |
| | PROPOSED OVERLAND FLOW ROUTE |

2 2023-08-16 ISSUED FOR SFC SUBMISSION
1 2023-07-31 ISSUED FOR 50% DD SUBMISSION
0 2023-04-20 ISSUED FOR TECHNICAL SUBMISSION

| # | DATE | REVISION |
|---|------------|---------------------------|
| 1 | 2023-08-16 | ISSUED FOR SFC SUBMISSION |

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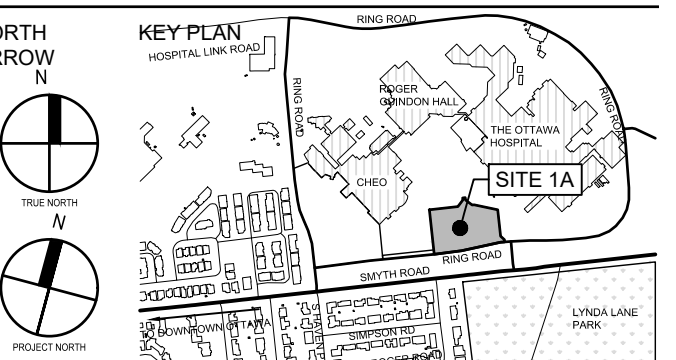
CLIENT
1DOOR4CARE: CHEO INTEGRATED TREATMENT CENTRE: PARKING GARAGE
401 SMYTH RD, OTTAWA, ON K1H8L1

TITLE
EROSION AND SEDIMENT CONTROL - PARKING GARAGE

SCALE: 1:250
DRAWN BY: DR,RR
REVIEWED BY: RK
JOB NUMBER: 2021-0821-10
PLOT DATE: 2023.08.15
DRAWING NUMBER

CP0601
PLAN # 18912
DEVELOPMENT # 007-12-22-0170

| PONDING SUMMARY TABLE | | | |
|-----------------------|---------------------------|-------------------------------|---|
| STORM EVENT | MAXIMUM PONDING DEPTH (m) | MAXIMUM PONDING ELEVATION (m) | MAXIMUM VOLUME UTILIZED (m ³) |
| 2 YEAR | 0.00 | N/A | N/A |
| 5 YEAR | 0.14 | 81.71 | 0.42 |
| 10 YEAR | 0.16 | 81.73 | 0.82 |
| 25 YEAR | 0.18 | 81.75 | 1.80 |
| 50 YEAR | 0.19 | 81.76 | 3.79 |
| 100 YEAR | 0.20 | 81.77 | 7.78 |
| 100 YEAR + 20% | 0.24 | 81.81 | 17.74 |



GENERAL NOTES

- THIS SET OF PLANS SHALL NOT BE USED FOR CONSTRUCTION UNLESS STAMPED 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, WATERMANS, SEWERS, AND OTHER 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 STARTING WORK. THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGES 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 POST TO THE SATISFACTION OF THE CONSULTANT WITHIN 10 DAYS OF AS-COMPLETED DRAWINGS, THE DRAWINGS MUST REFLECT THE CONTRACTED STATE OF THE WORK. SUBMISSION OF UNALTERED DESIGN DRAWINGS AND CONTRACT CHANGES WILL NOT BE ACCEPTED.



LEGEND

| | |
|-----------|--|
| +112.45 | PROPOSED GRADE |
| +102.48EX | EXISTING GRADE |
| 2.0% | PROPOSED DRAINAGE SLOPE |
| 2.0% | PROPOSED SWALE |
| 2.0% | PROPOSED SWALE WITH SUBDRAIN |
| ← | PROPOSED OVERLAND FLOW ROUTE |
| ← | PROPOSED EMBANKMENT (3:1 MAX UNLESS OTHERWISE NOTED) |
| — | PROPOSED CHAINLINK FENCE |
| — | EXISTING CONTOUR |
| ▨ | PROPOSED CONCRETE SURFACE |
| ▨ | PROPOSED GRAVEL SURFACE |
| ▨ | PROPOSED RIPRAP |
| ▨ | PROPOSED LIGHT DUTY ASPHALT SURFACE |
| ▨ | PROPOSED HEAVY DUTY ASPHALT SURFACE |

2 2023-08-16 ISSUED FOR SPC SUBMISSION
1 2023-07-31 ISSUED FOR 50% DD SUBMISSION
0 2023-04-20 ISSUED FOR TECHNICAL SUBMISSION

DATE REVISION

PROVISIONS

PROFESSIONAL ENGINEER
WALTERFEDY
2023-08-16
PROVINCE OF ONTARIO

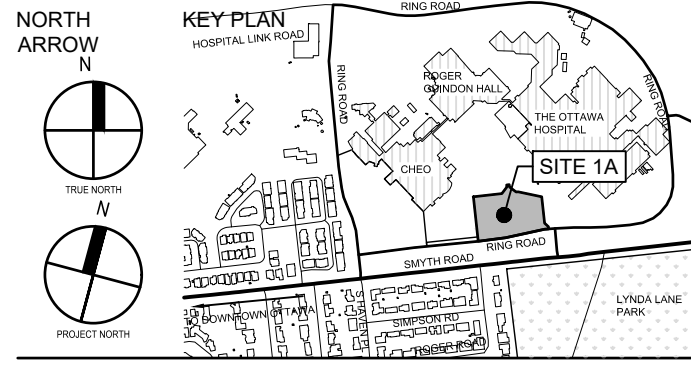
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CLIENT
1DOOR4CARE: CHEO INTEGRATED TREATMENT CENTRE: PARKING GARAGE
401 SMYTH RD, OTTAWA, ON K1M8L1

TITLE
PROPOSED GRADING PLAN - PARKING GARAGE

SCALE: 1:250
DRAWN BY: DR,RS
REVIEWED BY: RK
JOB NUMBER: 2021-0821-10
PLOT DATE: 2023.08.15
DRAWING NUMBER

CP1101
PLAN #: 18912
DEVELOPMENT #: D07-12-22-0170



LEGEND

| |
|--|
| PROPOSED LAMP STANDARD |
| PROPOSED UTILITY POLE |
| PROPOSED HYDRO POLE |
| PROPOSED SIGN |
| PROPOSED HYDRO TRANSFORMER |
| PROPOSED CATCHBASIN |
| PROPOSED DOUBLE CATCHBASIN |
| PROPOSED DITCH INLET CATCHBASIN |
| PROPOSED DITCH INLET CATCHBASIN (TYPE A) |
| PROPOSED DITCH INLET CATCHBASIN (TYPE B) |
| PROPOSED CATCHBASIN MANHOLE |
| PROPOSED DOUBLE CATCHBASIN MANHOLE |
| PROPOSED DITCH INLET CATCHBASIN MANHOLE (TYPE A) |
| PROPOSED DITCH INLET CATCHBASIN MANHOLE (TYPE B) |
| PROPOSED STORM MANHOLE |
| PROPOSED SANITARY MANHOLE |
| PROPOSED FIRE HYDRANT |
| PROPOSED WATERMAIN VALVE |
| PROPOSED CURB STOP |
| PROPOSED REDUCER |
| PROPOSED FIRE DEPARTMENT CONNECTION |
| EXISTING CATCHBASIN |
| 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 SANITARY SEWERSERVICE |
| PROPOSED STORM SEWERSERVICE |
| PROPOSED WATERMAINSERVICE |
| EXISTING SANITARY SERVICE |
| EXISTING STORM SERVICE |
| EXISTING WATERMAIN |
| PROPOSED SUBURBAN |

- GENERAL NOTES**
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 - 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.

| NO. | DATE | REVISION |
|-----|------------|---------------------------------|
| 1 | 2023-07-31 | ISSUED FOR 50% DD SUBMISSION |
| 2 | 2023-08-16 | ISSUED FOR SPC SUBMISSION |
| 3 | 2023-04-20 | ISSUED FOR TECHNICAL SUBMISSION |

CLIENT
1DOOR4CARE: CHEO INTEGRATED TREATMENT CENTRE: PARKING GARAGE
401 SMYTH RD, OTTAWA, ON K1H8L1

TITLE
PROPOSED SERVICING PLAN - PARKING GARAGE

SCALE: 1:250
DRAWN BY: DR,RB
REVIEWED BY: RK
JOB NUMBER: 2021-0821-10
PLOT DATE: 2023-08-15
DRAWING NUMBER: CP1201

PLAN # 18912
DEVELOPMENT # D07-12-22-0170

