

GENERAL NOTES

- 1. ALL WORK MATERIAL AND CONSTRUCTION METHODS TO CONFORM WITH THE LATEST SPECIFICATIONS, POLICIES, REGULATIONS, GUIDELINES AND LAWS FOR THE CITY OF OTTAWA, ONTARIO BUILDING CODE (OBC), MINISTRY OF THE ENVIRONMENT (MOE), ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS (OPSD AND OPS), THE ENVIRONMENTAL PROTECTION ACT AND THE WATER RESOURCES ACT...
2. THIS PLAN SHOULD BE READ IN CONNECTION WITH ALL OTHER CONSULTANT'S PLANS...
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS RELATED TO SERVICE CONNECTIONS INCLUDING ROAD CUT PERMITS AND THIRD PARTY UTILITY COSTS...
4. THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT...
5. THE INFORMATION SHOWN FOR EXISTING UTILITIES WAS PROVIDED BY OTHERS...
6. EXCEPT WHERE INDICATED, ALL DIFFERENCES IN GRADE BETWEEN THIS SITE AND ADJOINING LANDS ARE TO BE TAKEN UP ON OWNER'S LAND WITH A MAXIMUM SLOPE OF ONE(1) VERTICAL AND THREE (3) HORIZONTAL...
7. ALL DIMENSIONS AND ELEVATIONS TO BE VERIFIED PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES FOUND PRIOR TO OR DURING CONSTRUCTION SHALL BE CLARIFIED WITH THE ENGINEER...
8. INSPECTIONS...
9. ALL WORK ON THE MUNICIPAL RIGHT OF WAY AND EASEMENTS AND ANY WORK RELATING TO WATERMANS AND SEWERS TO BE INSPECTED BY THE MUNICIPALITY PRIOR TO BACKFILLING...
10. THE OWNER COVENANTS AND AGREES NOT TO MAKE A MATERIAL CHANGE OR CAUSE A MATERIAL CHANGE TO BE MADE TO A PLAN, SPECIFICATION, DOCUMENT OR OTHER INFORMATION...
11. FOR DETAILED SPECIFICATIONS REGARDING:
- STURDING
- GRANULAR BASE MATERIALS, BASE COURSE AND SURFACE COURSE ASPHALT MATERIALS
- CONSTRUCTION REQUIREMENTS
- INFILTRATION / UNSUITABLE / SURPLUS MATERIALS
- MANKLE / CATCHBASIN, AND SERVICE TRENCH BACKFILLING
- MANKLE, CATCHBASIN, AND SERVICE TRENCH BACKFILLING
- BEDDING
REFER TO GEOTECHNICAL REPORT NO. 4342-16-G-CR-A BY TORONTO INSPECTION LTD. DATED APRIL 26, 2016.
12. ALL WORKS WITHIN THE CITY R.O.W. SHALL COMPLY WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS...
13. CONTRACTOR TO COMPLETE TOPOGRAPHIC AS-BUILT SURVEY SEALED BY AN OLS UPON PROJECT COMPLETION...
14. CONTRACTOR TO COMPLETE UNDERGROUND AS-BUILT SURVEY SEALED BY AN OLS UPON PROJECT COMPLETION...

GRADING NOTES

- 1. ALL DISTURBED AREAS OUTSIDE OF PROPERTY LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER...
2. ALL EXISTING CURBS WITHIN THE SITE TO BE CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SCL.1 HEIGHT OF BARRED FACE OF BARRIER CURB TO BE 0.15m UNLESS OTHERWISE SHOWN...
3. ALL CURB CUTS TO BE AS PER OPSD 604.010...
4. REFER TO ARCHITECTURAL SITE PLAN FOR ALL DIMENSIONS AND LOCATIONS OF RAMPS, PAINTED LINES, WALKWAYS, SIDEWAYS, CURBS, CONCRETE PADS AND ISLANDS...
5. EMBANKMENTS TO BE SLOPED AT MAX. 3:1, UNLESS OTHERWISE SPECIFIED...
6. METHOD OF TERMINATION FOR CONCRETE CURB AS PER OPSD 608.010...
7. REPAVED SUBDRAINS ARE TO BE CONNECTED TO INTERNAL CATCH BASINS AND CATCH BASIN MANHOLES AS PER DETAIL PROVIDED AT THE SUBGRADE INTERFACE...
8. REFER TO LANDSCAPING PLANS FOR LANDSCAPE DETAILS AND THE LIMITS OF LANDSCAPED AREAS...
9. ALL RECYCLED, PROCESSED OR OTHERWISE ALTERED MATERIALS ARE CONSIDERED ALTERNATIVES AND MUST BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO USE ON SITE...
10. ALL UNSUITABLE SOIL OR SURPLUS MATERIAL OBTAINED FROM EXCAVATIONS TO BE DISPOSED OF OFF-SITE...
11. THE PROPERTY SHALL BE GRADED SUCH THAT SURFACE DRAINAGE IS DIRECTED AWAY FROM THE BUILDINGS...
12. ALL EXISTING STRUCTURES, FENCING, TREES, ETC., WITHIN CONSTRUCTION AREA UNLESS OTHERWISE NOTED TO REMAIN, SHALL BE REMOVED & DISPOSED OF OFF SITE...
13. ALL DRAINAGE STRUCTURES SHALL BE PRE-CAST FROM AN APPROVED SOURCE, MEETING ALL APPLICABLE REQUIREMENTS...
14. GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE (OR IN RIGHT-OF-WAY) PRIOR TO EXCAVATION...
15. SITE GRADING SHALL NOT PROCEED UNTIL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED...
16. THE OWNER SHALL ENSURE THAT NO PERSONNEL OR EQUIPMENT ENCROACHES WITHIN THREE METERS (10M) OF THE HYDRO OTTAWA OVERHEAD MEDIUM VOLTAGE DISTRIBUTION LINES...
17. SUCH WORK SHALL COMMENCE WITHOUT APPROVAL OF HYDRO OTTAWA.

PAVING NOTES

- 1. INSPECTION OF SUB-GRADE REQUIRED BY ENGINEER/GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF PAVEMENT STRUCTURE...
2. LIGHT DUTY ASPHALT PAVEMENT TO BE CONSTRUCTED AS FOLLOWS:
40mm HL3 OR SP 12.5 SURFACE COURSE
40mm HL3 OR SP 18 BASE COURSE
150mm OPS GRANULAR 'A' BASE
250mm OPS GRANULAR 'B' SUB-BASE
3. HEAVY DUTY ASPHALT PAVEMENT TO BE CONSTRUCTED AS FOLLOWS:
40mm HL3 OR SP 12.5 SURFACE COURSE
80mm HL3 OR SP 18 BASE COURSE
150mm OPS GRANULAR 'A' BASE
350mm OPS GRANULAR 'B' SUB-BASE
4. ALL PAVEMENT MARKING, LINE PAINTING, DIRECTIONAL LINE/ARROWS ETC. SHALL BE PLACED IN ACCORDANCE WITH THE SITE PLAN...
5. WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT SURFACE, CONSTRUCT STEP JOINT AS PER DETAIL PROVIDED...
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF INSPECTIONS WITH ENGINEER/GEOTECHNICAL CONSULTANT...
7. INSPECTION OF SUB-GRADE REQUIRED BY ENGINEER/GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF PAVEMENT STRUCTURE...
8. LIGHT DUTY ASPHALT PAVEMENT TO BE CONSTRUCTED AS FOLLOWS:
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17. WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT SURFACE, CONSTRUCT STEP JOINT AS PER DETAIL PROVIDED...
18. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF INSPECTIONS WITH ENGINEER/GEOTECHNICAL CONSULTANT...

STORM SEWERS

- 1. FOR CONSTRUCTION DETAILS NOT SHOWN ON PLANS, REFERENCE SHALL BE MADE TO THE ONTARIO PROVINCIAL STANDARD DRAWINGS AND CITY OF OTTAWA STANDARDS...
2. ALL STORM SEWER WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF OTTAWA STANDARDS, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS)...
3. ALL STORM MANHOLES TO BE AS PER OPSD 701.010-701.015 (SIZE AS SHOWN) WITH FRAME AND COVER AS PER OPSD 401.010 TYPE 'A'. SAFETY PLATFORMS TO BE INSTALLED IN ALL MANHOLES WHERE DEPTHS EXCEED 5.0m AS PER OPSD 404.020...
4. ALL MAIN STORM SEWERS UP TO 450mm DIA. SHALL BE PVC SDR-35 OR EQUIVALENT APPROVED BY THE ENGINEER...
5. STORM SEWERS 120mm OR LARGER SHALL BE REINFORCED CONCRETE GRADE 60.0 UNLESS OTHERWISE SPECIFIED...
6. SINGLE CATCH BASINS TO BE PRECAST AS PER OPSD 705.010 WITH FRAME AND GRATE AS PER OPSD 400.020...
7. ALL SINGLE CATCH BASIN LEADS TO BE MINIMUM 200mm (UNLESS OTHERWISE SPECIFIED) WITH A MAXIMUM LENGTH OF 30m...
8. ALL CATCH BASIN LEADS TO BE MINIMUM 200mm (UNLESS OTHERWISE SPECIFIED) WITH A MAXIMUM LENGTH OF 30m...
9. CATCH BASIN LEAD INVERTS TO BE 1.50m BELOW FINISHED GRADE UNLESS OTHERWISE SPECIFIED...
10. ALL SEWERS TO BE TESTED IN ACCORDANCE WITH CITY OF OTTAWA AND OPSD...
11. ALL MYS TO BE BENCH AS PER OPSD 701.021...
12. 'MODULOC' OR APPROVED PRE-CAST MANHOLE AND CATCH BASIN ADJUSTERS TO BE USED IN LIEU OF BROOKING, PARGE ADJUSTING UNITS ON THE OUTSIDE ONLY...
13. SERVICES TO BUILDINGS SHALL BE TERMINATED 1.5m FROM THE BUILDING ENVELOPE UNLESS OTHERWISE NOTED...
14. ALL BUILDING SERVICES SHALL BE CAPED AND MARKED WITH A 24 PAINTED GREEN (SANITARY), WHITE (STORM) AND BLUE (WATER)...
15. MANHOLE STEPS TO BE CONSTRUCTED AS PER OPSD 405.010...
16. WHERE COVER OF 1.5m IS NOT ACHIEVED PROVIDE INSULATION AS PER CITY OF OTTAWA DETAIL W02...
17. THE CONTRACTOR SHALL FLUSH AND PROVIDE CCTV CAMERA INSPECTIONS OF ALL STORM SEWERS...
18. THE CONTRACTOR SHALL FLUSH AND PROVIDE CCTV CAMERA INSPECTIONS OF ALL SANITARY SEWERS...
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SANITARY SEWERS

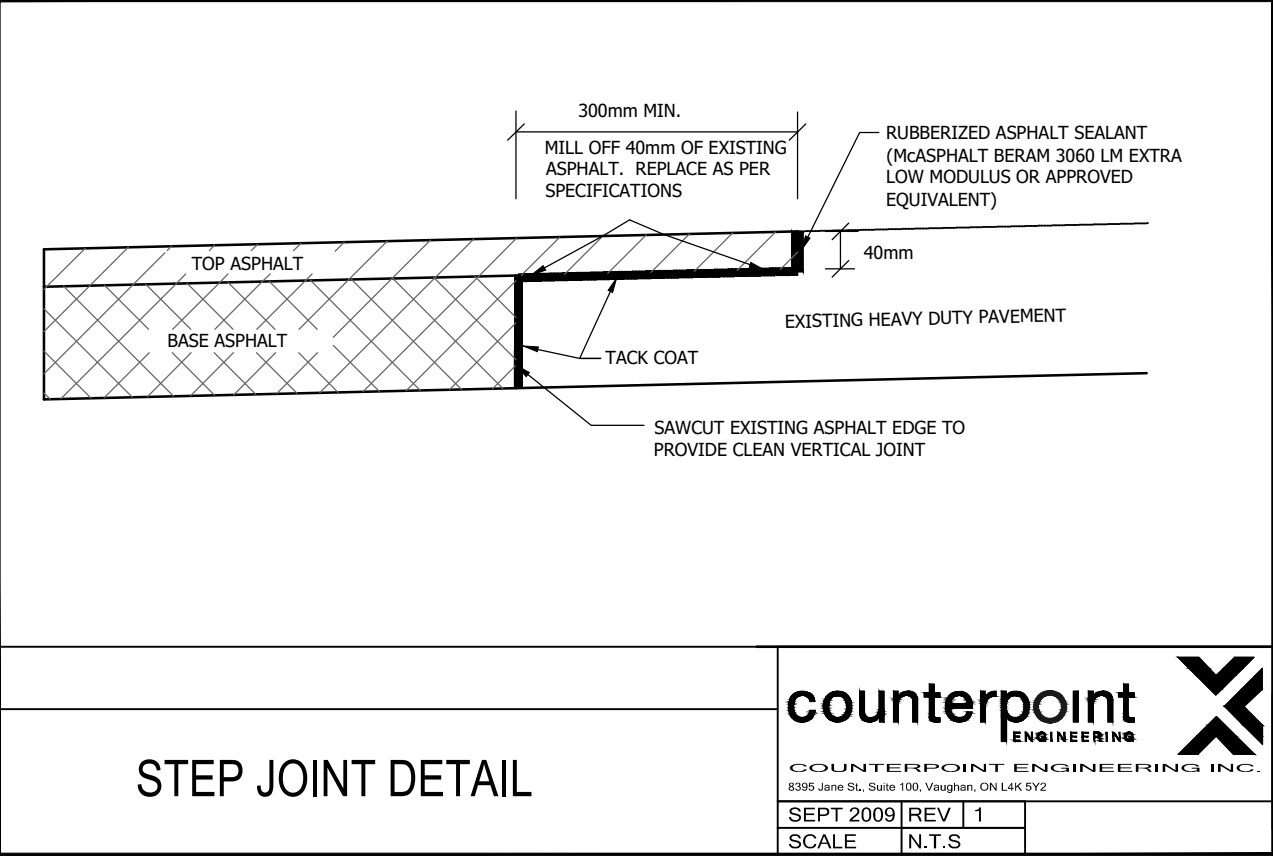
- 1. ALL SANITARY SEWERS SHALL BE PVC (SDR 35) MEETING CSA 142.6. FITTINGS FOR PVC SANITARY SEWER PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH A.S.T.M. SPECIFICATION D 3024 AND JOINTS SHALL BE BELL AND SPOUT WITH RUBBER GASKETS...
2. SANITARY BEDDING SHALL BE IN ACCORDANCE WITH OPSD 802.030 AND THE APPROVED GEOTECHNICAL REPORT...
3. MANHOLES SHALL BE AS PER OPSD 701.010 TO 701.015 FRAME COVER SHALL BE PER OPSD 401.010 TYPE 'A'...
4. ALL SANITARY SEWERS SHALL BE LEAKAGE TESTED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS, ONTARIO PLUMBING CODE, AND OPSD STANDARDS 410.07.16 AND 407.07.24...
5. 'MODULOC' OR APPROVED PRE-CAST MANHOLE ADJUSTERS TO BE USED IN LIEU OF BROOKING, PARGE ADJUSTING UNITS ON THE OUTSIDE ONLY...
6. ALL BUILDING SERVICES SHALL BE CAPED AND MARKED WITH A 24 PAINTED GREEN (SANITARY) AND WHITE (STORM)...
7. SERVICES TO BUILDINGS TO BE TERMINATED 1.5m FROM THE EDGE OF BUILDING SIDEWALK UNLESS OTHERWISE NOTED...
8. MANHOLE STEPS TO BE CONSTRUCTED AS PER OPSD 405.010...
9. ALL MYS TO BE BENCH AS PER OPSD 701.021...
10. THE CONTRACTOR SHALL FLUSH AND PROVIDE CCTV CAMERA INSPECTIONS OF ALL SANITARY SEWERS...
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WATERMAIN

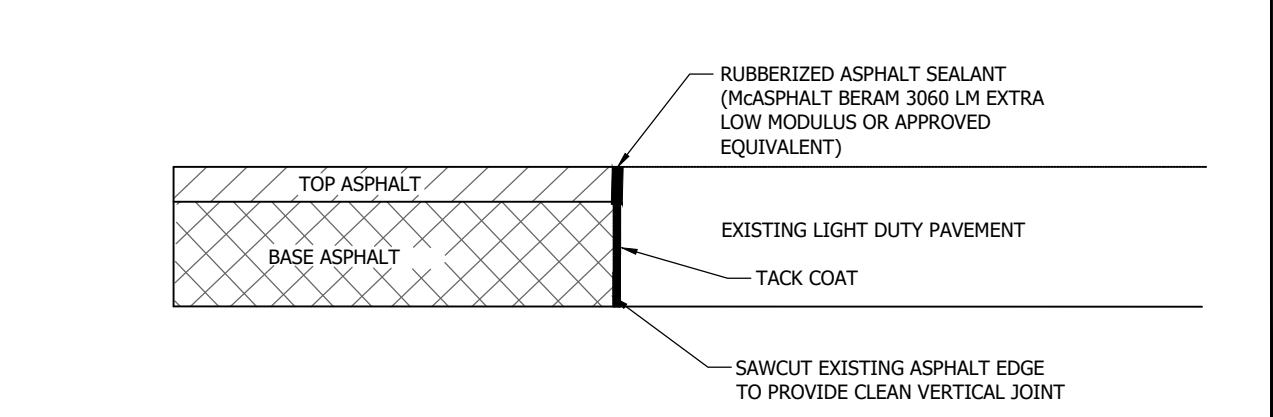
- 1. ALL MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO THE CURRENT OPSD, OPSD AND CITY OF OTTAWA STANDARDS AND SPECIFICATIONS...
2. WATERMAIN 150 TO 300mm SHALL BE ANNO-BOND POLYETHYLENE CHLORIDE (PVC CLASS 150 OR 18 AND CA CLASS 150-2) WITH GASKETED BELL AND 1/4 GAUGE THIN SOLID COPPER PLASTIC COATED TRACER...
3. WATERMAIN BEDDING SHALL BE IN ACCORDANCE WITH OPSD 802.030 AND AS PER THE APPROVED GEOTECHNICAL REPORT...
4. ALL BENDS, TEES, JOINTS, ETC. ARE TO BE RESTRAINED WITH THRUST BLOCKS AS PER CITY OF OTTAWA STANDARDS DETAILS W23 & W24...
5. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS...
6. WATERMANS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM HORIZONTAL SPACING OF 1.5m FROM SEWERS AND 1.5m FROM THEMSELVES AND 2.0m FROM ALL OTHER SERVICES AND UTILITIES...
7. BUILDING SERVICE VALVES TO BE 2.0m OFF THE EDGE OF BUILDING SIDEWALK UNLESS OTHERWISE SHOWN ON PLANS...
8. WATERMANS SHALL BE INSTALLED AT A MINIMUM COVER OF 2.4m FROM PROPOSED GRADES...
9. WATERMANS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.5m OVER AND 0.50m UNDER SEWERS...
10. ALL WATERMAIN STUBS SHALL BE TERMINATED WITH A 50mm PLUG AND BLOW OFF AS PER CITY OF OTTAWA STANDARDS UNLESS OTHERWISE INDICATED...
11. HYDRANTS SHALL BE TO CITY OF OTTAWA STANDARDS...
12. PRIVATE FIRE HYDRANTS SHALL BE FLOW TESTED AND COLOUR CODED IN CONFORMANCE WITH THE LOCAL MUNICIPAL, REGIONAL AND FIRE DEPARTMENT REQUIREMENTS...
13. ALL DUCTILE IRON FITTINGS SHALL BE CATHODICALLY PROTECTED PER CITY OF OTTAWA STANDARDS...
14. ALL WATERMANS SHALL BE PRESSURE TESTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH ALL LOCAL MUNICIPAL, REGIONAL AND PROVINCIAL REQUIREMENTS...

COUNTERPOINT ENGINEERING INC. CONFORMANCE REQUIREMENTS

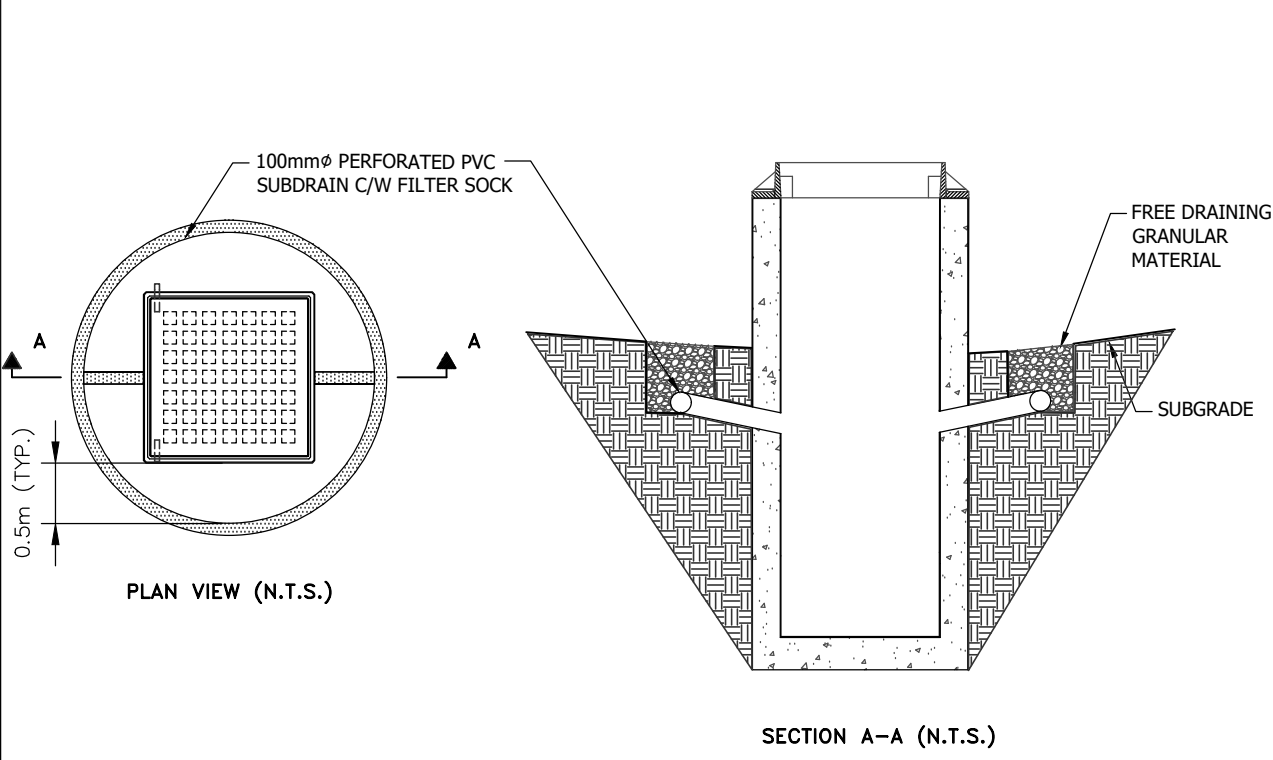
- 1. THE FOLLOWING ITEMS ARE TO BE PROVIDED TO COUNTERPOINT NO LATER THAN 10 WORKING DAYS PRIOR TO THE REQUEST FOR A LETTER OF GENERAL CONFORMANCE/FINAL CERTIFICATION...
- AS-COMPLETED TOPOGRAPHIC/UNDERGROUND SURVEY COMPLETED BY A REGISTERED LAND SURVEYOR AS PER THE SPECIFICATIONS OUTLINED WITHIN THE CONTRACT DOCUMENTS...
- GEOTECHNICAL ENGINEER CERTIFICATION LETTER, WHICH INCLUDES SUB-GRADE CONFORMANCE RESULTS, BEDDING AND BACKFILL CONFORMANCE AND MATERIAL ACCEPTANCE, GRANULAR, ASPHALT, SITE CONCRETE MATERIAL ACCEPTANCE AND CONFORMANCE RESULTS...
- CCTV INSPECTION OF FLUSHED STORM AND SANITARY PIPES AND STRUCTURES TO BE PROVIDED AT LEAST 10 DAYS PRIOR TO TOP WORKS PLACEMENT...
- OIL/LIGHT SEPARATOR MANUALS, RECORD OF INSPECTION AND CLEANING...
- WATERMAIN PRESSURE, CHLORINATION AND BACTERIAL TEST RESULTS AND MUNICIPAL APPROVAL IF AVAILABLE...
2. SHOULD THE SUBMITTED MATERIALS INDICATE NON-CONFORMANCE OR DEFICIENCIES, THEY MUST BE ADDRESSED TO COUNTERPOINT'S SATISFACTION WITH AN UPDATED SUBMITTAL PRIOR TO ISSUANCE OF LETTER OF GENERAL CONFORMANCE/FINAL CERTIFICATION...
3. COUNTERPOINT MUST ALSO COMPLETE ALL NECESSARY SITE INSPECTIONS AS OUTLINED IN THE APPROVED SERVICE PROGRAM, WITH ALL DEFICIENCIES ADDRESSED TO COUNTERPOINT'S SATISFACTION.



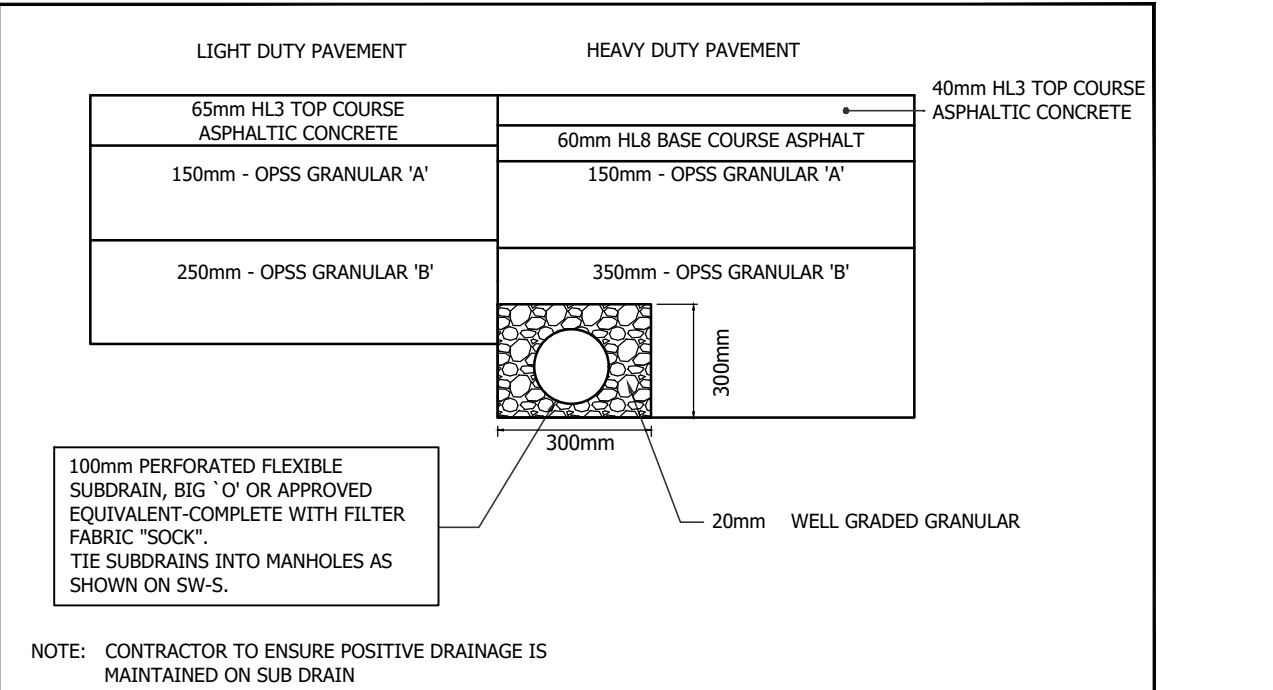
counterpoint ENGINEERING INC. CONSULTANT ENGINEER/GEOTECHNICAL CONSULTANT 1000 SHEPPARD AVENUE EAST, SUITE 100, SCARBOROUGH, ONTARIO M1B 4Y1. DATE: MAY 2021. SCALE: 1:N.T.S.



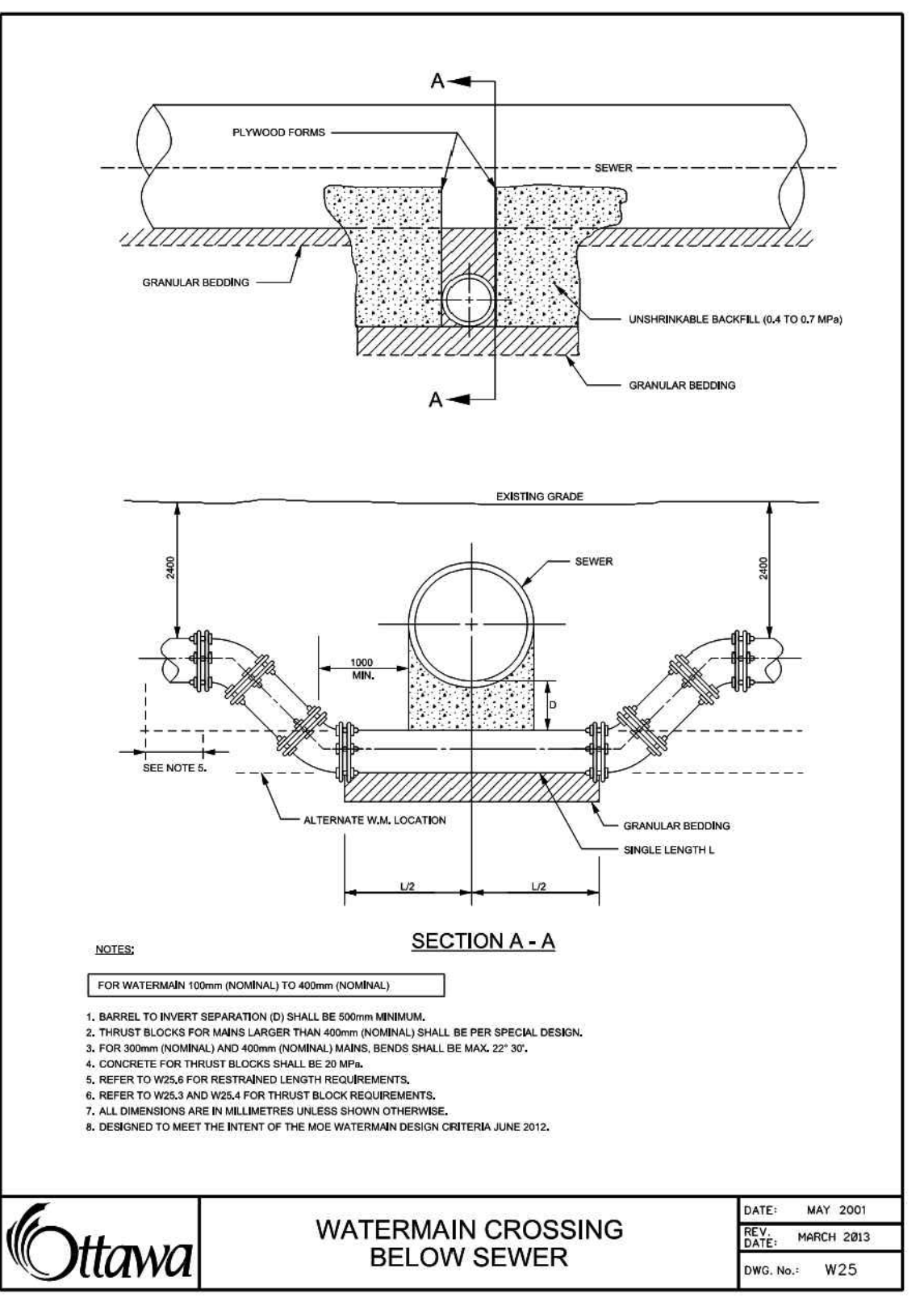
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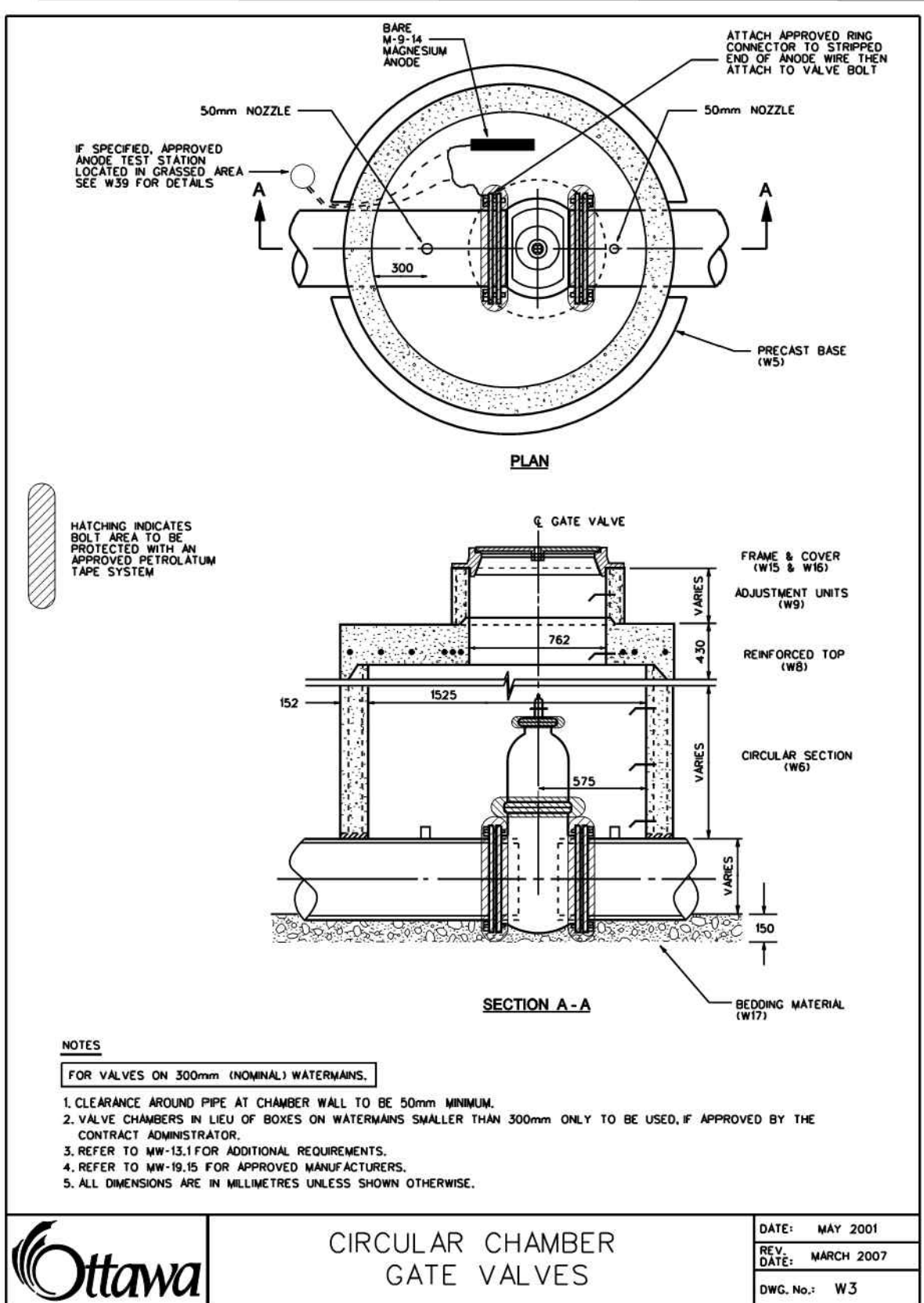
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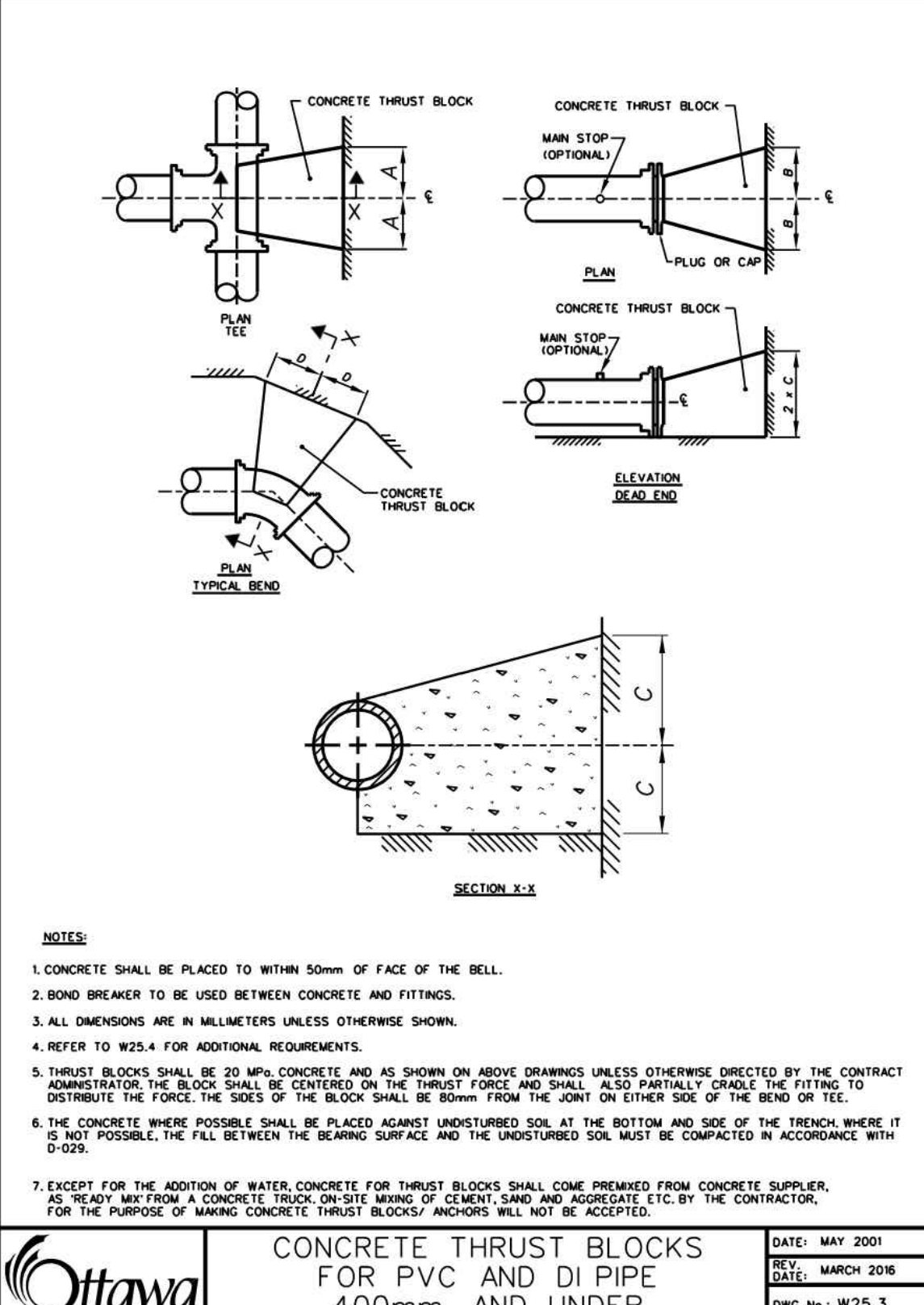
counterpoint ENGINEERING INC. CONSULTANT ENGINEER/GEOTECHNICAL CONSULTANT 1000 SHEPPARD AVENUE EAST, SUITE 100, SCARBOROUGH, ONTARIO M1B 4Y1. DATE: MAY 2021. SCALE: 1:N.T.S.



Ottawa WATERMAIN CROSSING BELOW SEWER. DATE: MAY 2021. SCALE: 1:N.T.S.

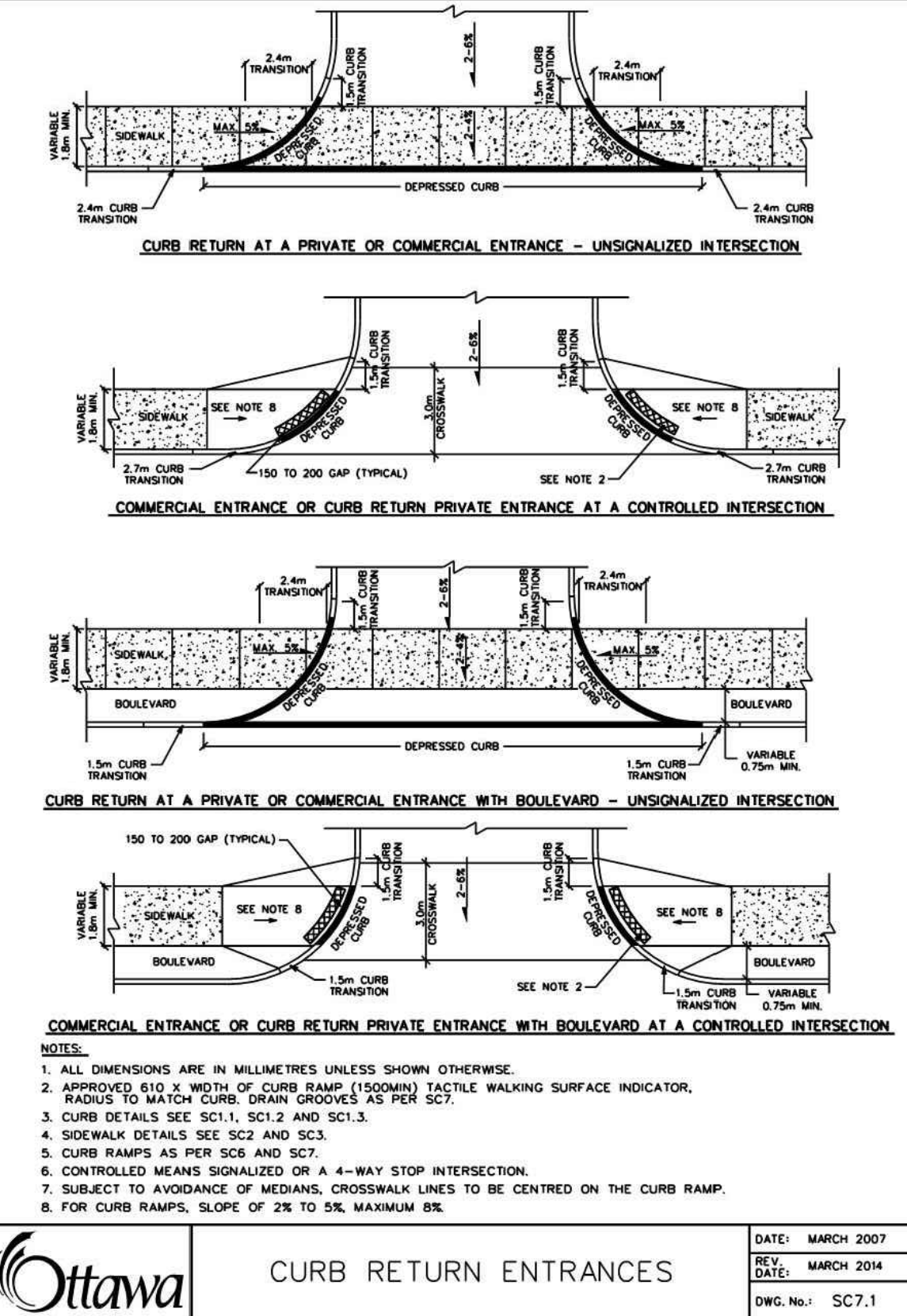


Ottawa CIRCULAR CHAMBER GATE VALVES. DATE: MAY 2021. SCALE: 1:N.T.S.

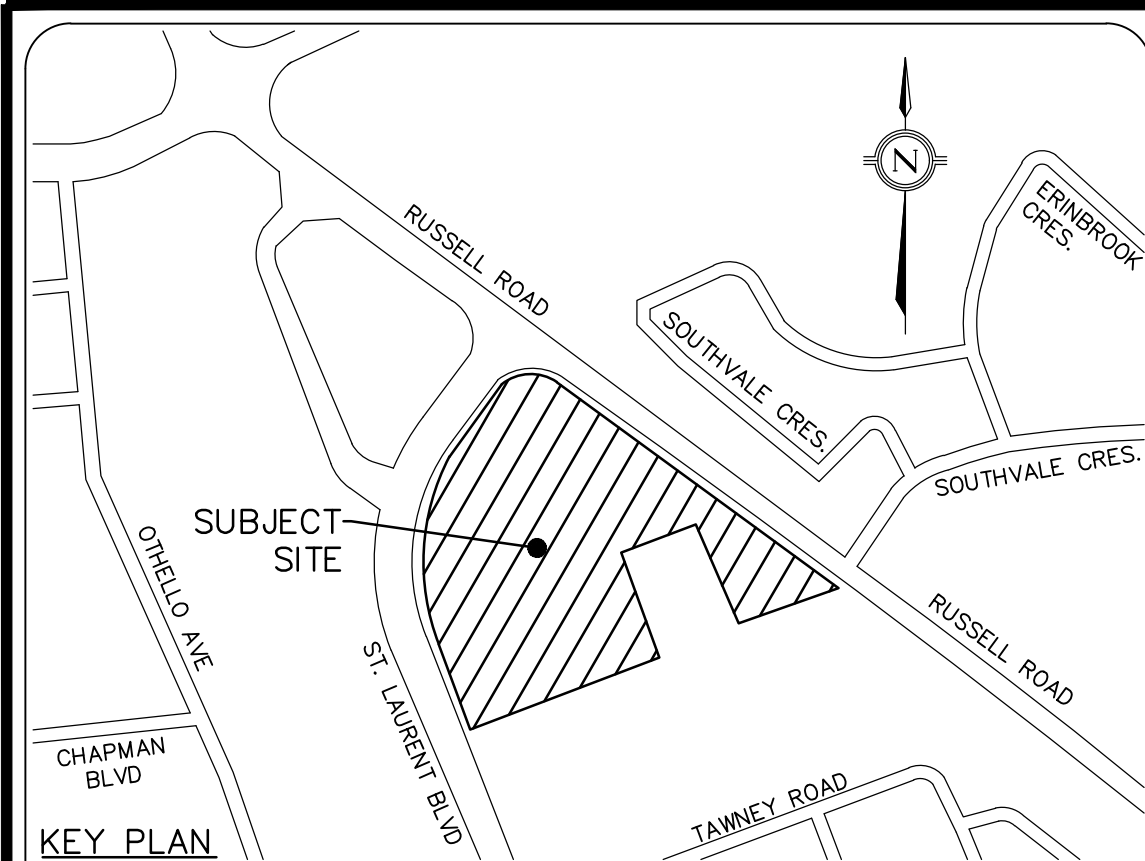


Ottawa CONCRETE THRUST BLOCKS FOR PVC AND DI PIPE 400mm AND UNDER. DATE: MAY 2021. SCALE: 1:N.T.S.

SOIL BEARING CAPACITY TABLES. TABLE 1: SOIL DESCRIPTION VERY FINE SAND, SANDY SILTY CLAYS. TABLE 2: SOIL DESCRIPTION SILTY SAND GRAVELS OR CLAYEY SAND GRAVEL. TABLE 3: SOIL DESCRIPTION SAND, GRAVELS & GRAVEL SAND MIXTURES. Includes dimensions A, B, C, D and bearing capacity values.



Ottawa CURB RETURN ENTRANCES. DATE: MARCH 2021. SCALE: 1:N.T.S.



LEGEND

LEGAL & TOPOGRAPHY PROVIDED BY: ANNE O'SULLIVAN, TOPOGRAPHY LTD., 14 CONROUSE GATE, SUITE 500, NAPANEE, ONTARIO, CANADA. PHONE: (613) 727-0880.

BENCHMARK NOTES: BENCHMARK ARE ASTROMIC, DERIVED FROM THE EASTERLY LIMIT OF ST. LAURENT BOULEVARD, SHOWN TO BE N21°15'15". ELEVATION NOTE: NOTES, ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD25 GEODETIC DATUM.

COUNTERPOINT ENGINEERING INC. 8399 JANA ST., SUITE 100, WILLOWDALE, ONT. L4R 9P2. PHONE: 905.326.1464 FAX: 905.326.1465. REGISTERED PROFESSIONAL ENGINEER (CIVIL) J.S. YOGANATHAN. LICENSE NO. 11250. REGISTERED PROFESSIONAL ENGINEER (CIVIL) J.S. YOGANATHAN. LICENSE NO. 11250.

APPLICANT: STARLIGHT DEVELOPMENTS INC., 3260 BLOOR STREET WEST, CENTRE TOWER - UNIT# 1400, TORONTO, ONTARIO M8X 2X3. PHONE: (416) 234-8444. FAX: (416) 855-0192. CONTACT: MATTHEW CELLUCCI. PROPOSED RESIDENTIAL DEVELOPMENT, 1971 & 1975 ST. LAURENT BLVD., OTTAWA. SITE PLAN FILE No.:

NOTES & DETAILS PLAN. DESIGNED BY: G.D., CHECKED BY: J.Y., DATE: MAR. 11, 2022. DRAWING NO.: 21106. SCALE: 1:400m. DRAWING NO.: SW-ND.