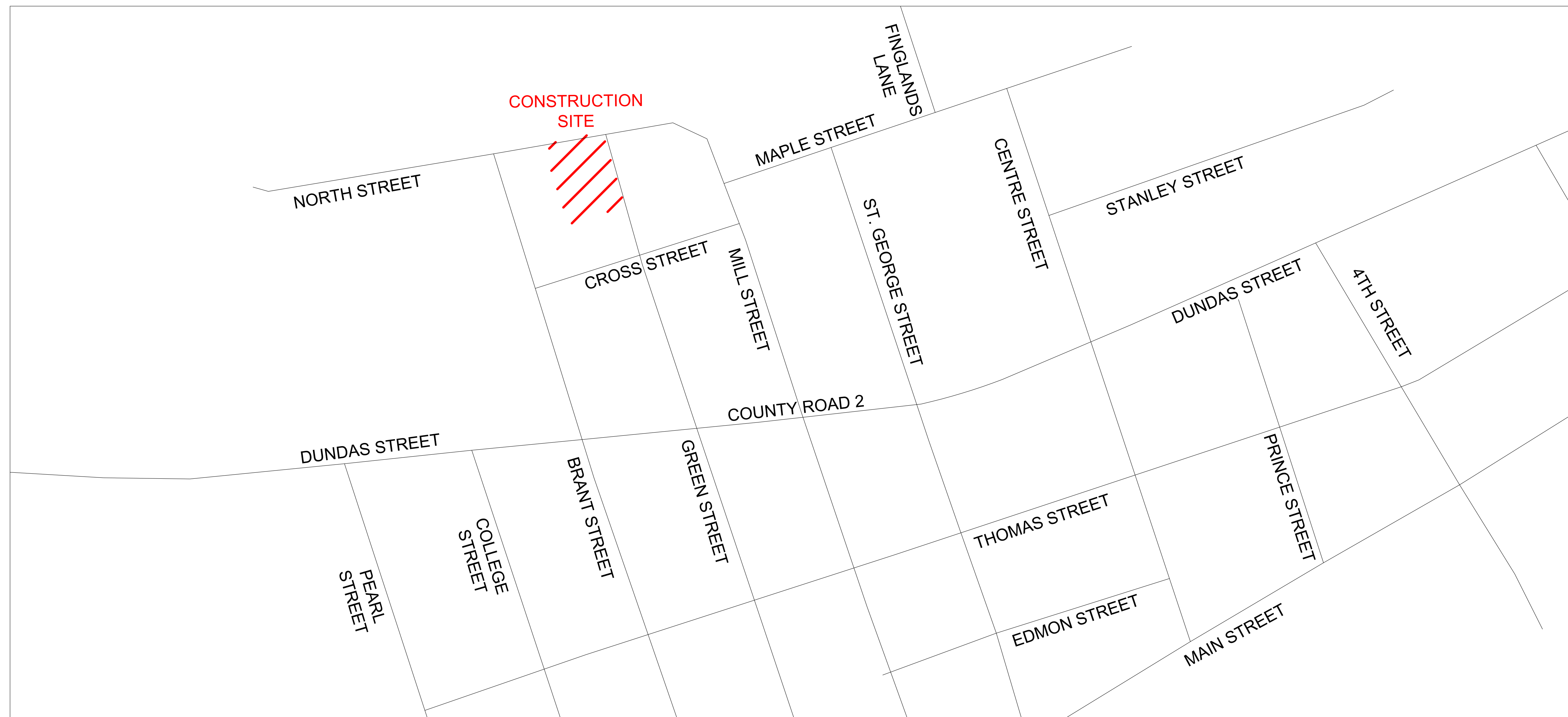
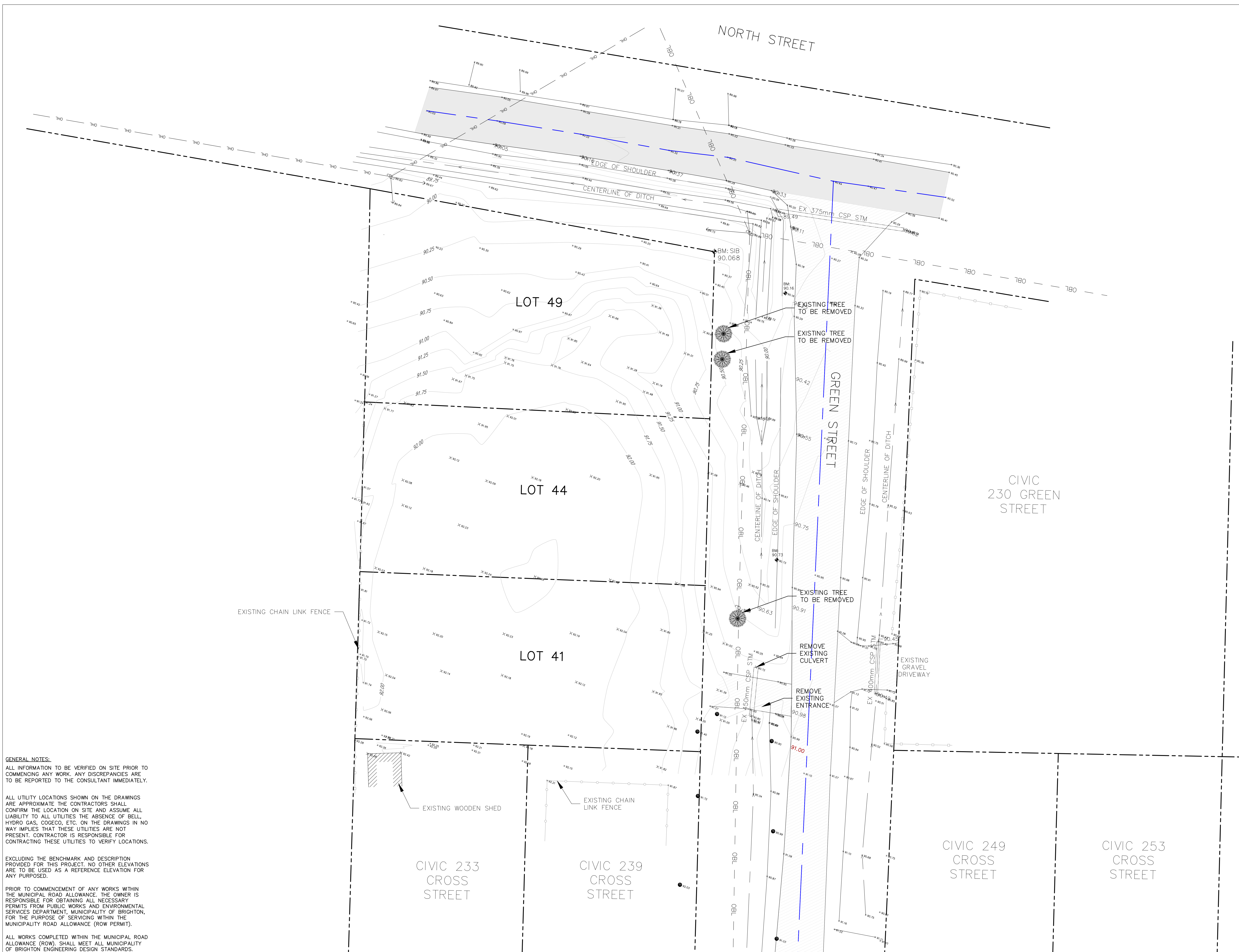


# ORKNEY RESIDENTIAL GREEN STREET : LOT 41, 44, 49 TOWN OF DESERONTO COUNTY OF HASTINGS



TITLE	DRAWING
COVER SHEET	CS
EXISTING CONDITIONS & REMOVALS	EX
SEDIMENT & EROSION CONTROL PLAN	SE
GRADING PLAN	GP
GENERAL SERVICING PLAN	GS
GENERAL NOTES	GN



**GENERAL NOTES:**  
 ALL INFORMATION TO BE VERIFIED ON SITE PRIOR TO COMMENCING ANY WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT IMMEDIATELY.

ALL UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTORS SHALL CONFIRM THE LOCATION ON SITE AND ASSUME ALL LIABILITY TO ALL UTILITIES THE ABSENCE OF BELL, HYDRO GAS, COGECO, ETC. ON THE DRAWINGS IN NO WAY IMPLIES THAT THESE UTILITIES ARE NOT PRESENT. CONTRACTOR IS RESPONSIBLE FOR CONTRACTING THESE UTILITIES TO VERIFY LOCATIONS.

EXCLUDING THE BENCHMARK AND DESCRIPTION PROVIDED FOR THIS PROJECT. NO OTHER ELEVATIONS ARE TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSED.

PRIOR TO COMMENCEMENT OF ANY WORKS WITHIN THE MUNICIPAL ROAD ALLOWANCE, THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM PUBLIC WORKS AND ENVIRONMENTAL SERVICES DEPARTMENT, MUNICIPALITY OF BRIGHTON, FOR THE PURPOSE OF SERVICING WITHIN THE MUNICIPALITY ROAD ALLOWANCE (ROW PERMIT).

ALL WORKS COMPLETED WITHIN THE MUNICIPAL ROAD ALLOWANCE (ROW), SHALL MEET ALL MUNICIPALITY OF BRIGHTON ENGINEERING DESIGN STANDARDS.

**GENERAL NOTES:**  
 ALL INFORMATION TO BE VERIFIED ON SITE PRIOR TO COMMENCING ANY WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT IMMEDIATELY.

ALL UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL CONFIRM THE LOCATION ON SITE AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES.

EXCLUDING THE BENCHMARK AND DESCRIPTION PROVIDED FOR THIS PROJECT. NO OTHER ELEVATIONS ARE TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

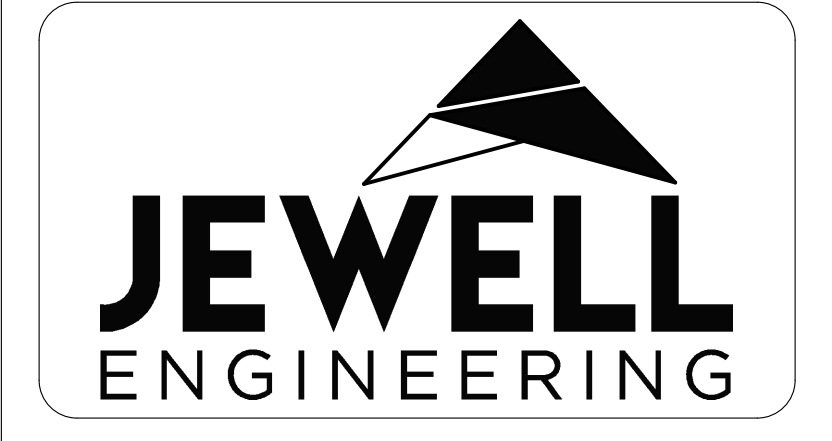
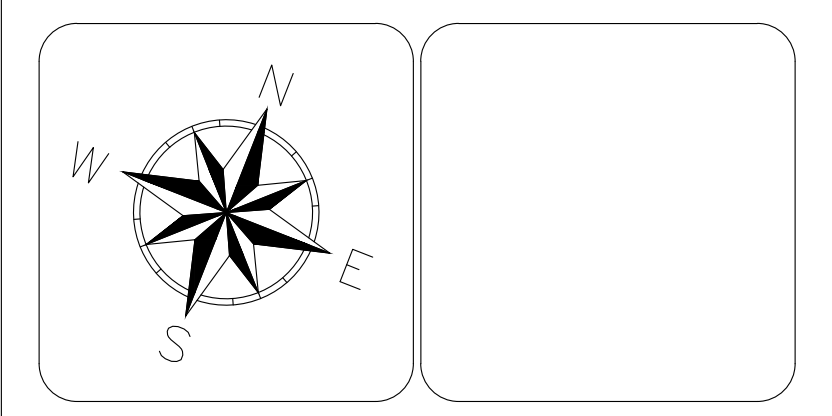
**METRIC NOTE:**  
 ALL DIMENSIONS SHOWN ARE IN METRES OR MILLIMETRES, UNLESS OTHERWISE NOTED.  
 \*\* DRAWINGS ARE NOT TO BE SCALED \*\*

REVISIONS			
NO.	DATE	DESCRIPTION	BY

**LEGEND**

EXISTING	DESCRIPTION	PROPOSED
● 76.00	SPOT ELEVATION	✕ 76.00
---	LOT LINES	---
---	CL OF ROAD	---
---	EDGE OF LANE	---
---	TOP OF SLOPE	---
---	PROPOSED CL OF DITCH	---
---	FENCE LINE	---
---	CULVERTS	---
---	VEGETATION	---
---	OVERHEAD HYDRO LINES	---
---	OVERHEAD BELL LINES	---
○	HYDRO POLES	○
■	IRON BARS	■
●	SHRUB	●
●	TREE	●
○	GUIDE POLE	○
▨	GRAVEL SURFACE	▨
▩	ASPHALT SURFACE	▩

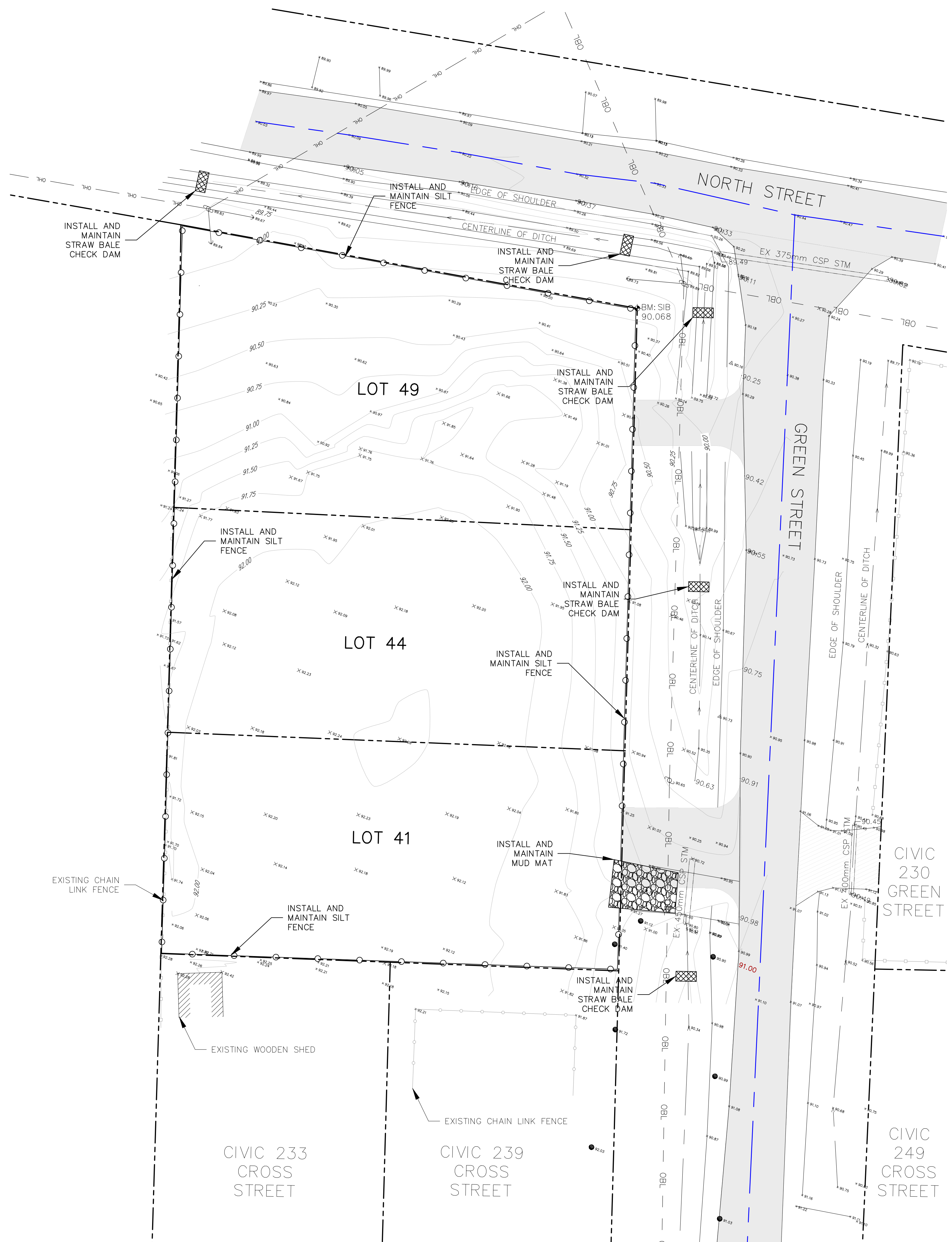
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DESERONTO BUILDING LOTS  
 ORKNEY RESIDENTIAL  
 GREEN STREET  
 DESERONTO, ONTARIO

EXISTING CONDITIONS & REMOVALS

DRAWN BY: ASG PROJECT NO: 2004776  
 DESIGNED BY: ASG DATE: October 2020  
 CHECKED BY: AR SCALE: HORIZONTAL - 1:200  
 APPROVED BY: AR CONTRACT NO: VERTICAL - NA DRAWING NO: EX



EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE THE PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE DURING CONSTRUCTION ACTIVITIES.
2. THE SITE GRADING CONTRACTOR IS RESPONSIBLE FOR ENSURING SEDIMENT AND EROSION CONTROL STRUCTURES ARE INSTALLED AS SHOWN. CARE SHALL BE TAKEN AT THE REMOVAL STAGE TO ENSURE THAT ANY SILT THAT HAS ACCUMULATED IS PROPERLY HANDLED AND DISPOSED OF.
3. THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CONSERVATION AUTHORITY, APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (EXCAVATING, FILLING, GRADING, REMOVAL OF VEGETATION, ECT.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION.
4. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE ANY EXCAVATION OR CONSTRUCTION WORKS COMMENCE. ALL APPROVED SEDIMENT/EROSION CONTROL MEASURES ARE TO BE MONITORED REGULARLY AND MAINTAINED AS NECESSARY TO ENSURE GOOD WORKING ORDER AND REMAIN IN PLACE UNTIL LANDSCAPING HAS BEEN ESTABLISHED. IN THE EVENT THAT THE EROSION AND SEDIMENTATION CONTROL MEASURES ARE DEEMED NOT BE TO BE PERFORMING ADEQUATELY, THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES AS APPROPRIATE TO THE SITUATION TO THE SATISFACTION OF THE QCA, PROJECT MANAGER AND/OR MUNICIPAL STAFF.
5. THE OWNER IS ULTIMATELY RESPONSIBLE (CONTRACTOR RESPONSIBLE AS WELL) FOR FAILURE TO COMPLY WITH ANY AND/OR ALL OF THESE CONDITIONS AND MUST TAKE ALL PRECAUTIONS TO ENSURE NO SEDIMENT RUNOFF FROM THE WORK SITE INTO THE SURFACE WATERS DURING AND AFTER THE CONSTRUCTION PERIOD. FAILURE TO COMPLY WITH THE APPROVAL AND/OR CONDITIONS MAY RESULT IN APPROVAL BEING REVOKED AND IN THE INITIATION OF LEGAL ACTION TO REMEDY THE MATTER TO THE CONSERVATION AUTHORITY'S SATISFACTION.
6. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED. RE-VEGETATION OF DISTURBED AREAS IS TO BE COMPLETED AS SOON AS POSSIBLE. RESTORATION SHALL PROVIDE A MINIMUM 75mm TOPSOIL AND SEED/SOD.
7. EXPOSED SLOPES TO BE PROTECTED WITH NATURAL OR SYNTHETIC MULCH/BLANKETS WHERE REQUIRED.
8. LIGHT DUTY SILT FENCE (OPSD 219.110) TO BE INSTALLED ON THE DOWNSTREAM PERIMETER OF ALL DISTURBED AREAS AND STOCKPILES. TERRAFIX SILTSOXX OR APPROVED EQUIVALENT MAY BE USED INSTEAD OF OR IN CONJUNCTION WITH LIGHT DUTY SILT FENCE.
9. RIP RAP OR STRAW BALE CHECK DAMS (OPSD 219.210 AND 219.180) TO BE PROVIDED WHERE FLOW CONCENTRATIONS ARE EXPECTED, INCLUDING IN SWALES AND UPSTREAM OF CULVERTS OR CATCH BASINS IN ACCORDANCE WITH OPSD 805.
10. ALL EROSION CONTROL MEASURES TO BE MAINTAINED UNTIL THE CONTRIBUTING SURFACES HAVE BEEN ADEQUATELY STABILIZED I.E. ASPHALT, SOD OR 80% GRASS COVERED, TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
11. A VISUAL INSPECTION IS TO BE COMPLETED ON A REGULAR BASIS AND SEDIMENT CONTROL MEASURES ARE TO BE CLEANED OF ANY ACCUMULATED SILT AS REQUIRED.
12. IN SOME CASES, BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE THE CONSTRUCTION OPERATIONS. THE AFFECTED BARRIERS WILL BE REINSTITATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A RUN-OFF OR PREDICTED RAINFALL EVENT UNLESS A NEW DEVICE HAS BEEN INSTALLED TO ENSURE THE CONTAINMENT OF EROSION OR SILTATION.
13. NO REFUELING OR CLEANING OF EQUIPMENT NEAR ANY EXISTING WATERWAYS.
14. PROPOSED COLLECTOR SWALES AS PER THE DESIGN DRAWINGS SHALL BE CONSTRUCTED AND IMMEDIATELY TREATED WITH TOPSOIL AND SOD.
15. CONTROL/LIMIT VEHICLE ACCESS TO AND AROUND THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF DISTURBANCE OF NATURAL VEGETATION.
16. MUDMATS TO BE INSTALLED AT ALL POINTS OF ACCESS/EGRESS FROM EXISTING ROADS TO THE CONSTRUCTION SITE PRIOR TO SITE GRADING/CONSTRUCTION ACTIVITIES.
17. EXISTING ROADWAYS TO BE SWEEPED AND CLEANED FREQUENTLY TO PREVENT THE TRACKING OF MUD AND DEBRIS FROM SITE.
18. LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME. CONTRACTOR IS TO MINIMIZE AREAS TO BE CLEARED/GRUBBED/STRIPPED WHERE POSSIBLE.
19. A VEGETATION BUFFER WILL BE MAINTAINED BETWEEN DISTURBED AREAS AND NEIGHBORING PROPERTIES WHERE PRACTICAL.

GENERAL NOTES:

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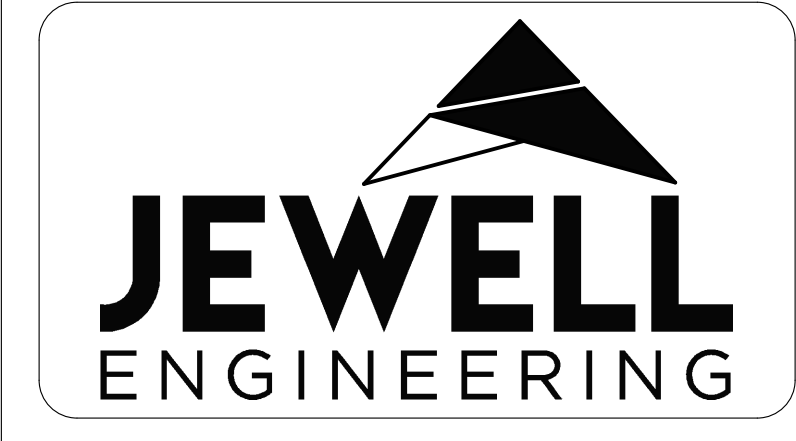
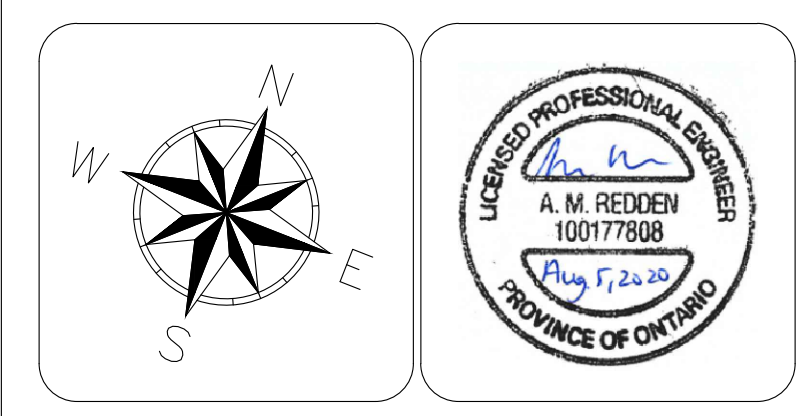
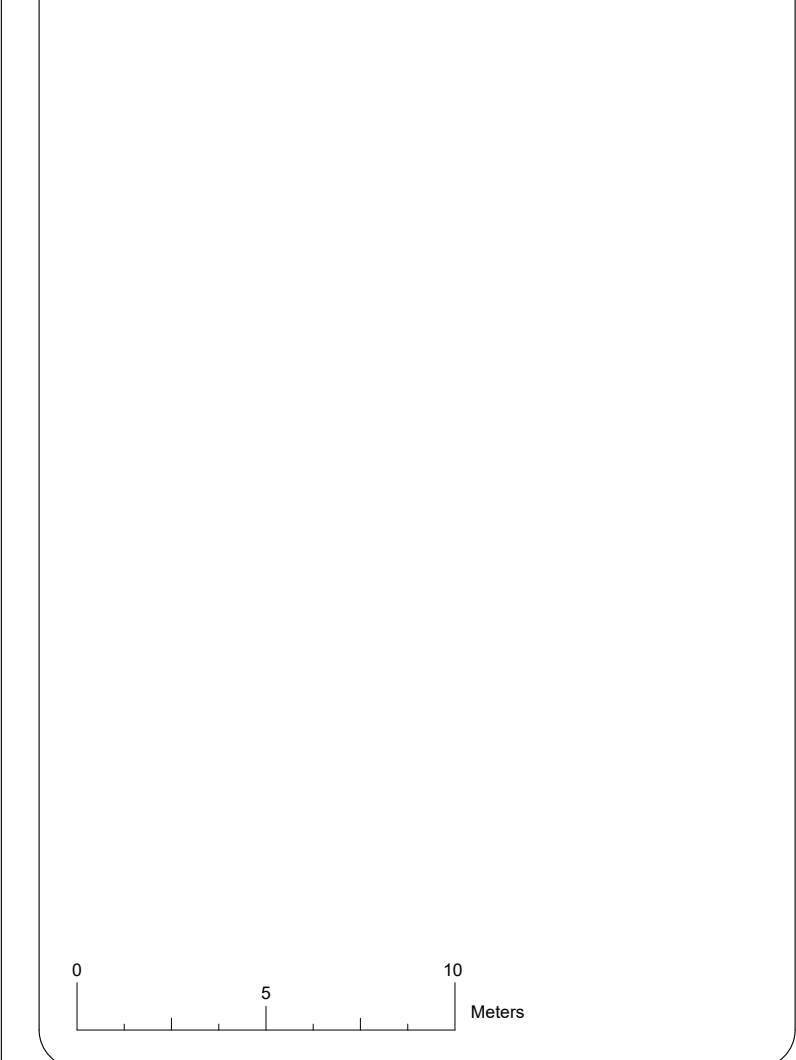
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METRIC NOTE:  
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\*\* DRAWINGS ARE NOT TO BE SCALED \*\*

REVISIONS			
NO.	DATE	DESCRIPTION	BY

LEGEND

DESCRIPTION	PROPOSED
STRAW BALE CHECK DAM	
SILT FENCE	
MUD MAT	



DESERONTO BUILDING LOTS  
ORKNEY RESIDENTIAL  
GREEN STREET  
DESERONTO, ONTARIO

SEDIMENT & EROSION CONTROL PLAN

DRAWN BY: ASG PROJECT NO: 2004776  
DESIGNED BY: ASG DATE: October 2020  
CHECKED BY: AR SCALE: HORIZONTAL - 1:200 VERTICAL - NA  
APPROVED BY: AR CONTRACT NO: DRAWING NO: SE





ONTARIO PROVINCIAL STANDARD SPECIFICATIONS:

THE FOLLOWING ONTARIO PROVINCIAL SPECIFICATIONS (OPSS'S) WILL BE USED. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CURRENT COPIES OF THESE STANDARDS.

OPSS MUNICIPAL SPECIFICATIONS:

- 100 GENERAL CONDITIONS OF CONTRACT
102 WEIGHING OF MATERIALS
180 MANAGEMENT OF EXCESS MATERIALS
201 CLEARING, CLOSE CUT CLEARING, GRUBBING & REMOVAL OF SURFACE BOULDERS
206 GRADING
212 CONSTRUCTION SPECIFICATION FOR EARTH BORROW
310 HOT MIX, HOT LAID ASPHALTIC CONCRETE PAVING & HOT MIX PATCHING
311 ASPHALT SIDEWALK, DRIVEWAY, AND BOULEVARD AND FOR SIDEWALK AND RESURFACING
314 UNTREATED GRANULAR SUBBASE, BASE, SURFACE, SHOULDER, AND STOCKPILING
351 CONCRETE SIDEWALK
401 TRENCHING, BACKFILLING & COMPACTING
402 EXCAVATING, BACKFILLING & COMPACTING FOR MAINTENANCE HOLE, CATCH BASINS, DITCH INLETS, & VALVE CHAMBERS
403 ROCK EXCAVATION FOR PIPELINES, UTILITIES & AND ASSOCIATED STRUCTURES IN OPEN CUT
409 CONSTRUCTION SPECIFICATION FOR CLOSED CIRCUIT TELEVISION INSPECTION OF PIPELINES
410 SEWER PIPE INSTALLATION IN OPEN CUT
421 PIPE CULVERT INSTALLATION IN OPEN CUT
441 WATERMAIN INSTALLATION IN OPEN CUT
442 CORROSION PROTECTION OF WATERMAINS
490 SITE PREPARATION FOR PIPELINES, UTILITIES AND ASSOCIATED STRUCTURES IN OPEN CUT
491 PRESERVATION, PROTECTION, AND RECONSTRUCTION OF EXISTING FACILITIES
492 SITE RESTORATION FOLLOWING INSTALLATION OF PIPELINES, UTILITIES, AND ASSOCIATED STRUCTURES
501 COMPACTING
506 DUST SUPPRESSANTS
510 REMOVAL
511 RIP RAP, ROCK PROTECTION AND GRANULAR SHEETING
706 TEMPORARY TRAFFIC CONTROL DEVICES
710 PAVEMENT MARKING
801 PROTECTION OF TREES
802 TOPSOIL
803 SODDING
804 SEED AND COVER
805 TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES
1001 AGGREGATES - GENERAL
1002 AGGREGATES - CONCRETE
1003 AGGREGATES - HOT MIX ASPHALT
1004 AGGREGATES - MISCELLANEOUS
1006 AGGREGATES - SURFACE TREATMENT
1010 AGGREGATES - BASE, SUBBASE, SELECT SUBGRADE, AND BACKFILL MATERIAL
1150 HOT MIX ASPHALT
1302 WATER
1350 CONCRETE - MATERIALS AND PRODUCTION
1716 WATER-BORNE TRAFFIC PAINT
1801 CORRUGATED STEEL PIPE (CSP) PRODUCTS
1840 NON-PRESSURE POLYETHYLENE PLACT PIPE PRODUCTS
1842 PRESSURE POLYETHYLENE PIPE PRODUCT
1850 FRAMES, GRATES, COVERS AND GRATINGS
2501 CALCIUM CHLORIDE

OPSS PROVINCIAL SPECIFICATIONS:

- 127 SCHEDULE OF RENTAL RATES FOR CONSTRUCTION EQUIPMENT, INCLUDING MODEL AND SPECIFICATION REFERENCE
308 CONSTRUCTION SPECIFICATION FOR TACK COATING AND JOINT PAINTING

ONTARIO PROVINCIAL STANDARD DRAWINGS:

THE FOLLOWING ONTARIO STANDARD DRAWINGS (OPSD'S) WILL BE USED. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CURRENT COPIES OF THESE STANDARDS.

- 205.040 TRANSITION TREATMENT - EARTH FILL TO ROCK FILL AND EARTH FILL TO GRANULAR FILL
205.060 FROST HEAVE TREATMENT
206.010 STANDARD ROAD SECTION - RURAL
219.100 LIGHT-DUTY STRAW BALE BARRIER
219.110 LIGHT-DUTY SILT FENCE BARRIER
219.120 LIGHT-DUTY FIBRE ROLL BARRIER
219.180 STRAW BALE CHECK DAM
219.191 FIBRE ROLL FLOW CHECK DAMS
310.010 CONCRETE SIDEWALK
310.050 CONCRETE SIDEWALK DRIVEWAY ENTRANCE DETAILS
350.010 URBAN INDUSTRIAL, COMMERCIAL, AND APARTMENT ENTRANCES
401.010 CAST IRON, SQUARE FRAME WITH SQUARE OVERFLOW TYPE DISHED GRATE FOR CATCH BASINS, HERRING BONE OPENINGS
509.010 PAVEMENT REINSTATEMENT FOR UTILITY CUTS
801.010 GENERAL RIP-RAP LAYOUT FOR SEWER AND CULVERT OUTLETS
802.010 FLEXIBLE PIPE, EMBEDMENT AND BACKFILL, EARTH EXCAVATION
803.030 FROST TREATMENT - PIPE CULVERTS, FROST PENETRATION LINE BELOW BEDDING GRADE
810.010 HEIGHT OF FILL TABLE, ROUND CORRUGATED STEEL PIPE AND STRUCTURAL PLATE CORRUGATED STEEL PIPE
1006.010 SEWER SERVICE CONNECTIONS FOR RIGID MAIN PIPE SEWER
1104.020 WATER SERVICE CONNECTION, 32, 38, AND 50mm DIAMETER SIZES
1105.010 HYDRANT INSTALLATION
1109.011 CATHODIC PROTECTION FOR PVC WATERMAIN SYSTEMS

GENERAL NOTES:

- 1. ALL EAVESTROUGH DOWNSPOUTS SHALL DIRECT STORM WATER TO THE SURFACE, EXCEPT AS MAY BE APPROVED BY THE MUNICIPALITY DURING SITE PLAN APPROVAL
2. ALL SANITARY SEWERS AND WATERMAINS CONSTRUCTED ON PRIVATE PROPERTY ARE TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE
3. THE REINSTATEMENT OF ASPHALT ROADWAYS, CONCRETE SIDEWALKS AND CURBS ON THE CITY ROAD ALLOWANCE IS TO BE DONE BY THE OWNER IN ACCORDANCE WITH MUNICIPAL SPECIFICATIONS AT THE OWNER'S EXPENSE
4. ALL CONSTRUCTION, INSTALLATION, AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE LATEST STANDARDS AND CODES OF THE OPSD'S AND REGULATIONS AND PERMITS FROM MUNICIPALITY AS MAY BE REQUIRED APPROVED
5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. GAS, HYDRO, TELEPHONE, AND ANY OTHER UTILITY THAT MAY EXIST ON, OR ADJACENT TO THE SITE OR WITHIN THE RIGHT-OF-WAY MUST BE LOCATED BY THE APPROPRIATE UTILITY COMPANY AND ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO AVOID CONFLICTS OR AS MAY BE REQUIRED/APPROVED.
6. ALL FILL MATERIALS TO BE COMPACTED TO MINIMUM 100% SPMD.
7. THE DEVELOPER IS TO PROVIDE THE INFORMATION IN THIS SECTION TO HIS CONTRACTORS. AFTER APPROVAL OF THE CONTRACTOR BY THE MUNICIPAL ENGINEER, AND PRIOR TO ANY CONSTRUCTION, A MEETING OF THE DEVELOPER, THE CONTRACTOR, AND THE MUNICIPAL ENGINEER SHALL TAKE PLACE TO DISCUSS THE PROJECT.
8. NO CONSTRUCTION SHALL COMMENCE WITHOUT GIVING THE MUNICIPALITY AT LEAST 48 HOURS NOTICE.
9. ALL UNDERGROUND SERVICES, INCLUDING GAS, BELL, TELEPHONE AND HYDRO, SHOULD BE COMPLETED BEFORE THE SURFACE COURSE OF ASPHALT IS CONSTRUCTED.
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 ON THE BASIS OF WHICH THESE DRAWINGS WERE APPROVED BY THE MUNICIPALITY, WITHOUT NOTIFYING, FILING DETAILS WITH, AND OBTAINING THE WRITTEN AUTHORIZATION OF THE MUNICIPALITY.
11. THE PROPERTY IS TO BE GRADED SO THE SURFACE DRAINAGE IS DIRECTED AWAY FROM THE BUILDINGS.
12. ALL TREE, SHRUBS, AND OTHER LANDSCAPING FEATURES, BOTH EXISTING AND PROPOSED, ARE TO BE KEPT A MINIMUM OF 1m CLEAR OF THE CENTERLINE OF SWALES.
13. ALL DISTURBED AREAS SHALL BE REINSTATED TO EXISTING CONDITIONS OR BETTER, UNLESS OTHERWISE NOTED, TO THE SATISFACTION OF THE MUNICIPALITY AND CONTRACT ADMINISTRATOR
14. EXISTING STRUCTURES ARE NOT TO BE DISTURBED, NOR ENCROACHMENT ON ADJACENT PROPERTIES, UNLESS INSTRUCTED BY THE ENGINEER.
15. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING, BUT NOT LIMITED TO, THE FOLLOWING PERMITS: ROAD CUT, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVED PERMITS, ETC.
16. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE SITE PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES AS PER OPSS 706 AND THE ONTARIO TRAFFIC MANUAL BOOK 7 DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS, AND BARRIERS.
18. ALL CONSTRUCTION WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
19. SLOPES IN LANDSCAPE AREAS AND ON BERMS SHALL NOT EXCEED 3 HORIZONTALS TO 1 VERTICAL.
20. ANY ADJUSTMENT TO THE DRIVEWAY LOCATIONS WILL BE CONFIRMED WITH THE MUNICIPAL ENGINEER.
21. ROAD REHABILITATION IS TO BE COMPLETED IN ACCORDANCE WITH THE MUNICIPAL SPECIFICATIONS.
22. 150mm PE SUBDRAINS SHALL BE PLACED AROUND THE BUILDING FOUNDATIONS AS REQUIRED BY THE ONTARIO BUILDING CODE.

- 23. ALL EQUIPMENT SHALL BE CSA CERTIFIED
24. ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL CONFORM TO THE BEST PRACTICES AND IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE AND STANDARDS
25. IF WORK IS STOPPED ON THE SUBDIVISION, THEN AGAIN, 48 HOURS NOTICE WILL BE REQUIRED BEFORE RE-COMMENCING THE CONSTRUCTION. THIS NOTICE IS REQUIRED SO THAT ARRANGEMENTS CAN BE MADE FOR THE INSPECTION OF THE MUNICIPALITY SERVICES
26. ONCE THE ABOVE GROUND SERVICES (ROAD, CURB AND GUTTER, SOD, IF ANY) ARE COMPLETED, PERMISSION FROM THE ENGINEER WILL BE REQUIRED BEFORE MAKING A CUT IN THESE SERVICES
27. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR, TOGETHER WITH THE MUNICIPALITY STAFF, SHALL INSPECT EXISTING CITY UNDERGROUND AND ABOVE GROUND SERVICES IN THE VICINITY OF THE SUBDIVISION AND MAKE A LIST OF ANY DEFICIENCIES. THIS LIST SHALL BE SIGNED BY A REPRESENTATIVE OF THE MUNICIPALITY AND CONTRACTOR. A SIMILAR INSPECTION SHALL BE CARRIED OUT AFTER COMPLETION OF CONSTRUCTION
28. NO BLASTING PERMITTED

WATER SERVICING NOTES:

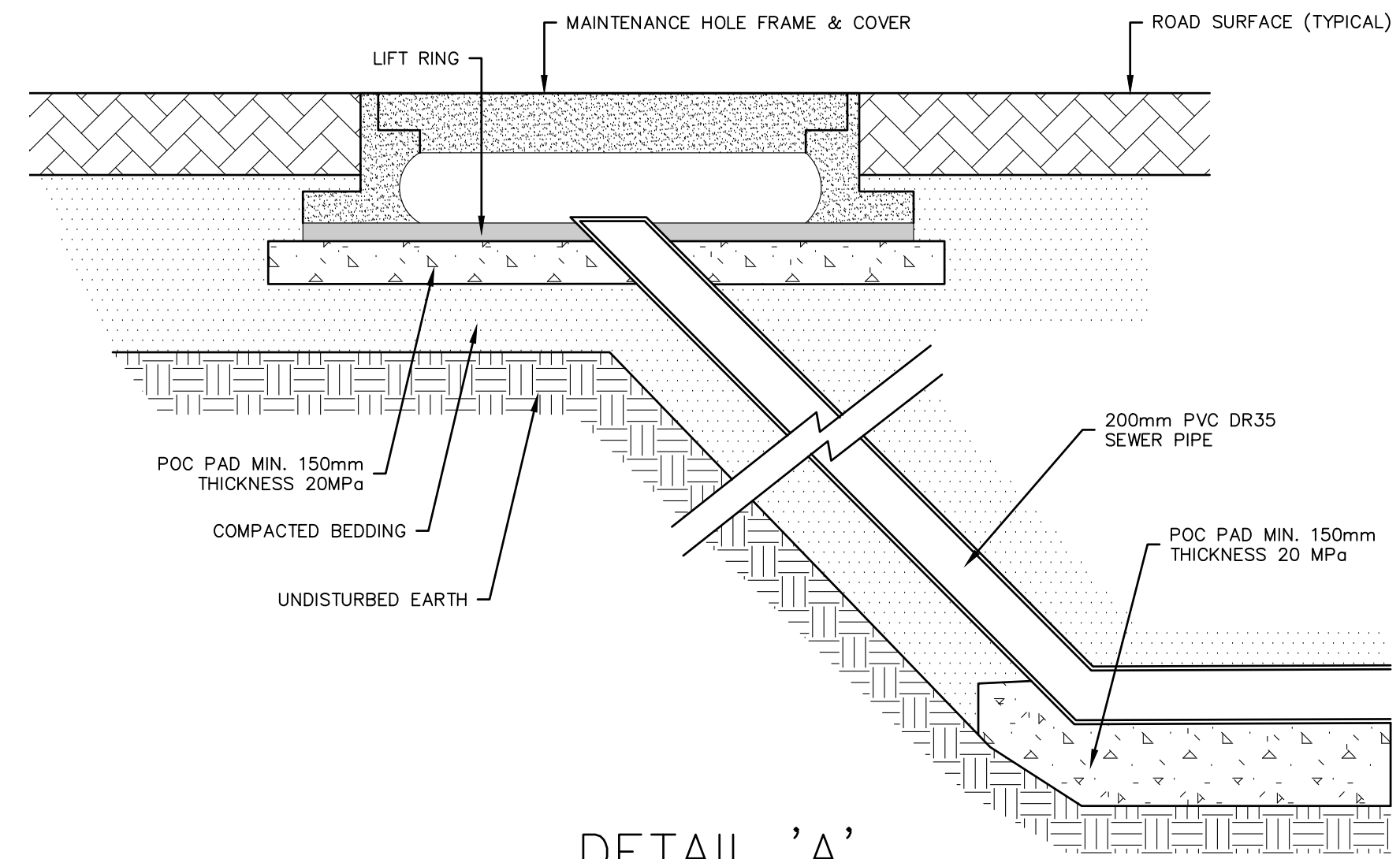
- CONTRACTOR IS TO ADHERE TO ALL CURRENT REGULATION FOR WATERMAIN TESTING AND DISINFECTION. CONTRACTOR/CONSULTANT ARE RESPONSIBLE TO ENSURE ALL MINISTRY OF ENVIRONMENT RULES AND REGULATIONS ARE STRICTLY ADHERED TO.
1. SERVICES SIZE SHALL BE 50mm WITH A MINIMUM BURIAL DEPTH OF 1.8M CONFORMING TO AAWA STANDARDS.
2. WATER SERVICES SHALL BE 50mmØ POLYETHYLENE TUBING (OR APPROVED EQUAL.)
3. WATERMAIN MATERIALS SHALL BE PVC CLASS 150mm TO AWWA C900-89 SPEC, COLOUR CODED BLUE. CERTIFIED CSA 13137.3 WITH GASKET BELL END, COMPLETE WITH #12 AWG INSULATED UNDERGROUND APPLICATION COPPER TRACER WIRE OR APPROVED EQUAL.
4. FIRE HYDRANTS SHALL BE BREAKAWAY, CANADA VALVE CENTURY, OR CLOW CANADA BRIGADIER TO AWWA STD. C502-80, WITH TWO 60mm OUTLETS WITH 5 THREADS PER 25mm, NOMINAL 1.8m BURY, OPEN LEFT WITH TITON JOINT TO BASE. ALL HYDRANTS TO HAVE TWO 60mm AND ONE 100mm OUTLET. FIRE HYDRANTS TO BE SELF-DRAINING. HYDRANT VALVES TO BE ANCHORED AT MAIN.
5. ALL WATERMAIN APPURTENANCES SHALL BE NO-LEAD BRASS.
6. FIRE HYDRANT TOPS AND CAPS ARE REQUIRED TO BE COLOUR CODED TO COMPLY WITH CHAPTER 5 OF NFPA 291
7. SERVICE CONNECTIONS SHALL HAVE A CORPORATION MAIN STOP AND BE 'GOOSE- NECKED' NEAR THE WATER MAIN AS PER THE APPROPRIATE OPSD. MAIN STOPS MAY BE SET AT THE SPRING LINE AND THE GOOSENECK MAY BE HORIZONTAL.
8. A NON-DRAINING CURB STOP (UNLESS OTHERWISE SPECIFIED BY THE TOWN) AND ASSOCIATED VALVE BOX TO FINISH GRADE
9. SHALL BE PROVIDED ON THE SERVICE CONNECTION TO EACH PREMISES AND BE LOCATED ON, OR NEAR THE PROPERTY LINE
10. (PROPERTY OWNER SIDE). ALL SUCH SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH RELEVANT OPSD. A STAINLESS
11. STEEL EXTENSION ROD SHALL BE USED. A PRE- CAST CONCRETE PAD OF 150X150X30 SHALL BE SET UNDER THE CURB STOP.
12. NEW CURB STOP, INSTALLATIONS SHALL NOT BE LOCATED IN DRIVEWAYS OR SIDEWALKS UNLESS APPROVED BY THE TOWN.
13. SERVICES OF 50MM OR LESS SHALL HAVE NO JOINTS BETWEEN THE MAIN STOP AND THE CURB STOP AND NO JOINTS BETWEEN THE CURB STOP AND THE BUILDING INTERIOR.
14. BETWEEN THE CURB STOP AND THE BUILDING INTERIOR.
15. SERVICE CONNECTIONS TO PVC MAINS SHALL BE BY STAINLESS STEEL SADDLE OR BY FACTORY SUPPLIED PVC SERVICE TEES.
16. ALL NON-METALLIC WATER MAINS AND SERVICES SHALL HAVE A 12 GAUGE TRACER WIRE.
17. TRACER WIRE SHALL BE LOOPED UP THE OUTSIDE OF ALL MAIN VALVE BOXES AND EXTENDED INTO THE VALVE BOX BY 50MM
18. THROUGH A SAW CUT 50MM BELOW THE BOTTOM OF THE COVER BELL.
19. CATHODIC PROTECTION SHALL BE AS OPSD 1109.011 AND SHALL BE DEEMED INCLUDED IN SERVICE/PIPE PRICING.
20. WATER SERVICES SHALL NOT BE USED AS AN ELECTRICAL GROUND.
21. ONE 150mm ISOLATION VALVE SHALL BE INSTALLED FOR THE NEW FIRE HYDRANT AS PER OPSD 1105.010 AND SITE PLAN STANDARDS, SECTION 4.12.
22. MECHANICAL RESTRAINTS ARE REQUIRED AT ALL PLUGS, CAPS, TEES, LINE VALVES, REDUCERS, WYES, HYDRANTS AND BENDS, DEFLECTING 22.5° OR MORE AS PER WATERMAIN DESIGN CRITERIA, AS FOLLOWS:
22.1. ALL JOINTS WITHIN 15m OF A BEND (11.25° AND GREATER)
22.2. ALL JOINTS WITHIN 15m OF A REDUCER/INCREASER
22.3. ALL JOINTS WITHIN 20m OF A CAP, PLUG OR VALVE
22.4. ALL JOINTS WITHIN 15m OF THE MIDDLE LEG OF A TEE AND THE IMMEDIATE JOINTS ON THE OTHER TWO LEGS (A FULL LENGTH OF PIPE IS REQUIRED ENTERING AND EXITING THE MAINLINE LEGS OF A TEE).
22.5. ALL JOINTS ON A FIRE HYDRANT LEAD
23. ONE 50mm CURB STOP, ACCESSIBLE AT GRADE LEVEL SHALL BE INSTALLED NEAR THE CONNECTION OF THE 50mm SERVICE LINE TO THE 150mm MAIN.
24. SERVICES SHALL CONFORM TO OPSS 701 CONSTRUCTION SPECIFICATIONS FOR WATERMAIN INSTALLATION IN OPEN CUT WHICH INCLUDES REFERENCE TO HYDROSTATIC TESTING, AWWA STANDARD C651-DISINFECTING WATER MAINS, AND NSF/ANSI STANDARD 6.1: DRINKING WATER SYSTEM COMPONENTS.
25. A HORIZONTAL SEPARATION DISTANCE OF 2.5m MUST BE MAINTAINED BETWEEN THE SEWERMAIN AND THE 150mm WATERMAIN EXTENSION AS PER SECTION 15 OF THE WATERMAIN DESIGN CRITERIA. A HORIZONTAL SEPARATION OF 1.2m SHALL BE MAINTAINED BETWEEN THE 50mm WATER SERVICE LINE AND THE SEWERMAIN PROVIDED AS PER OBC REQUIREMENTS OF SECTION 7.3.5.7, (2),(3).

SANITARY SERVICING NOTES:

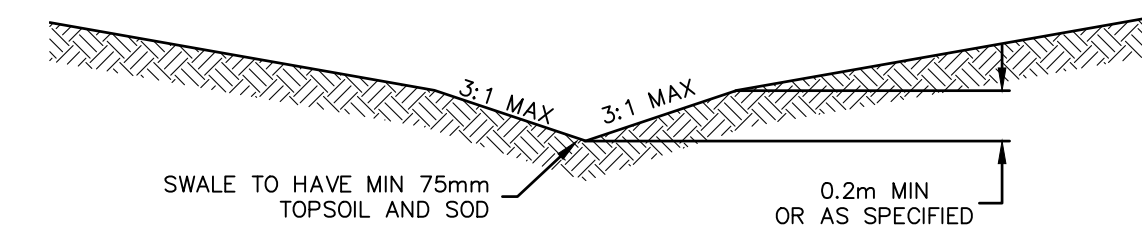
- 1. SANITARY SEWER SERVICES SHALL BE SDR 28 PVC PIPE (OR APPROVED EQUAL)
2. THE BUILDING SERVICES CONNECTED TO MAINS SHALL BE SET ABOVE THE SPRING LINE OF THE SEWER MAIN WITH A SADDLE OR TEE CONNECTION AND WITH LONG RADIUS BENDS
3. BUILDING SEWER SERVICES SHALL BE 125MM DIA. PVC SDR28 AND 200mm 101A PVC SDR35 BELL AND SPIGAT CSA CERTIFIED.
4. THE MINIMUM COVER FOR SANITARY SERVICES WILL NORMALLY BE A MINIMUM OF 1.5M FROM THE FINISHED GRADE. SERVICES OF LESS THAN 1.5M MAY BE PERMITTED ON A CASE-BY-CASE BASIS. IN SUCH CASES FROST PROTECTION JUST CONFORM TO THE OBC.
5. SANITARY SERVICES SHALL HAVE A MINIMUM OF ONE CLEAN-OUT LOCATED BETWEEN THE BUILDING LINE AND THE PROPERTY LINE. LOCATION(S) OF CLEAN-OUTS SHALL BE ONLY AS APPROVED BY THE TOWN. CLEAN-OUTS SHALL BE CAPPED WITH WATER- TIGHT CAPS.
6. REMOVE ANY FREE ORGANIC TOPSOIL, ORGANICS AND ORGANIC-BEARING MATERIALS, LOAM, FROZEN EARTH, AND BOULDERS LARGER THAN 150mm IN DIAMETER ENCOUNTERED AT SUBGRADE ELEVATION FOR THE WIDTH OF CONSTRUCTION
7. SUBGRADE SOIL TO BE PROFF - ROLLED WITH HEAVY COMPACTION EQUIPMENT TO ENSURE THAT IT IS ACCEPTABLE FOR PLACEMENT OF NEW EQUIPMENT TO ENSURE THAT IT IS ACCEPTABLE FOR PLACEMENT OF NEW GRANULAR BASE AND SUBBASE MATERIALS ANY DELETERIOUS AREAS DETECTED (OVERLY WET OR SOFT) SHOULD BE REPLACED WITH ACCEPTABLE EARTH FILL OR GRANULAR MATERIAL COMPACTED TO A MINIMUM OF 98% SPMD
8. NATIVE SOIL AND GRANULLA COMPACTION REQUIREMENTS ARE AS PER OPSS 501, SUBSECTION 501.08.02 - METHOD A. UTILIZING SOIL PLACEMENT IN MAXIMUM 200mm LIFTS AND COMPACTION STANDARDS OF 100% STANDARD PROCTER MAXIMUM DRY DENSITY.
9. WHERE ASPHALT MEETS EXISTING. A 300mm "LAP JOINT" IS TO BE PROVIDED
10. ALL SAW CUTTING REQUIRED AND FINE GRADING PRIOR TO PAVING ARE TO BE INCLUDED

ON-SITE PAVEMENT STRUCTURAL DESIGN:

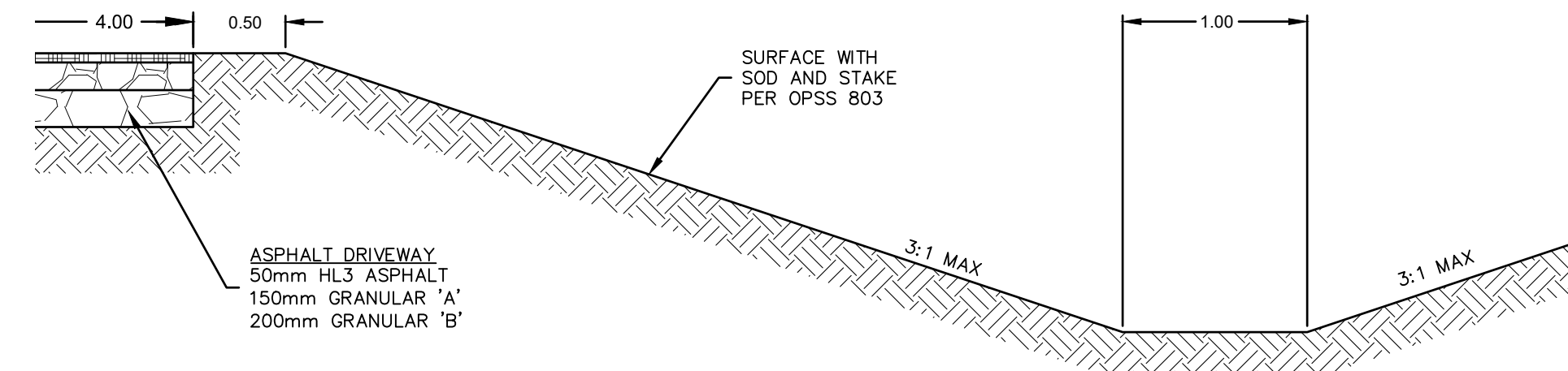
Table with 5 columns: Layer, Material, Thickness, and OPSS Reference. Includes rows for Granular Sub-base, Granular Base, and Asphalt Surface.



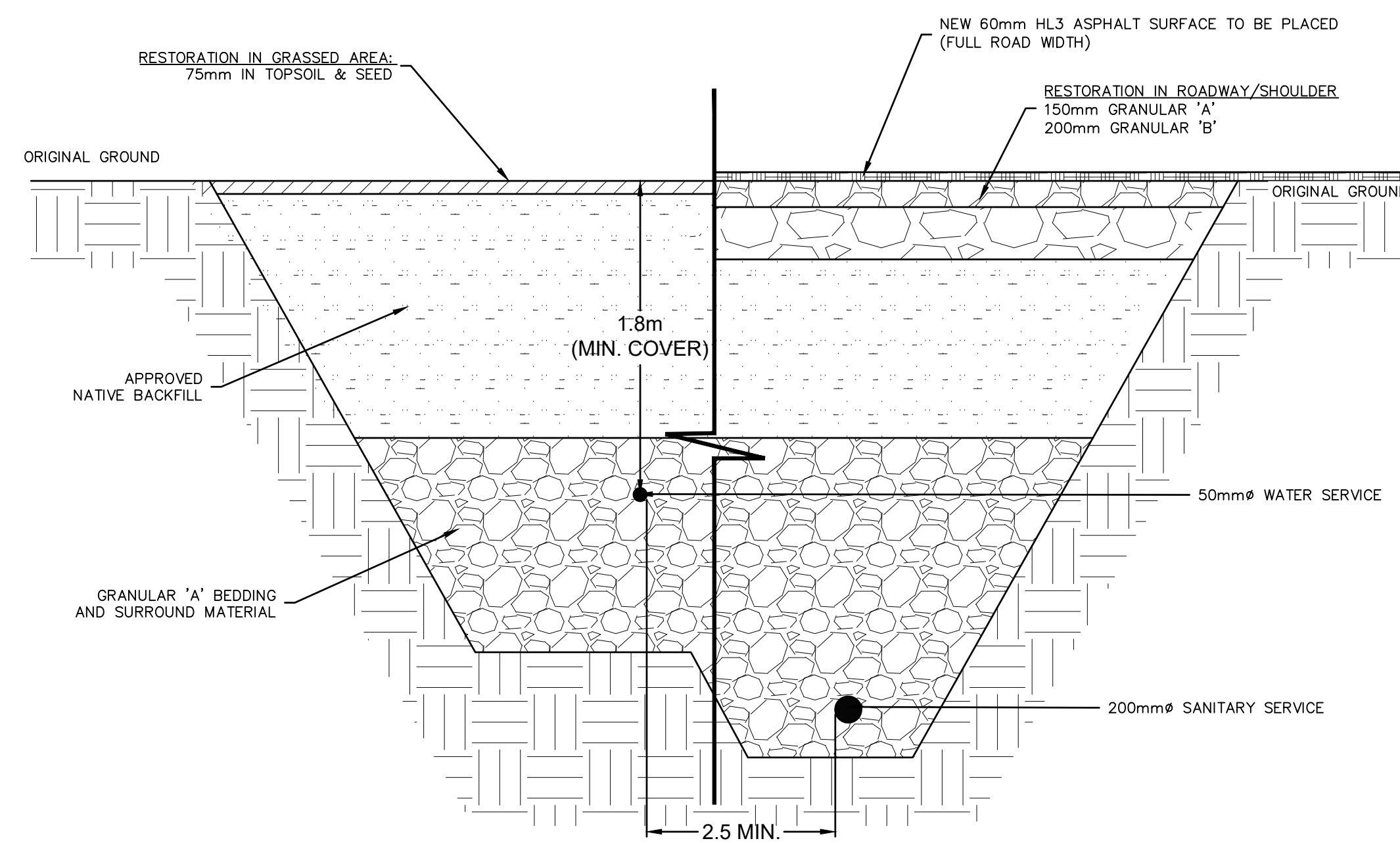
DETAIL 'A' TERMINAL SEWER ACCESS STRUCTURE (TSAS) N.T.S



DETAIL 'B' TYPICAL SWALE CROSS SECTION N.T.S



DETAIL 'C' TYPICAL ENHANCED SWALE CROSS SECTION N.T.S

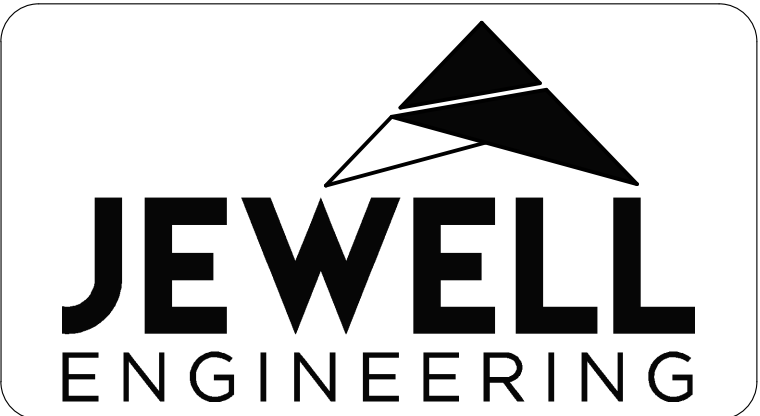


DETAIL 'D' TYPICAL SERVICING TRENCH N.T.S

GENERAL NOTES: ALL INFORMATION TO BE VERIFIED ON SITE PRIOR TO COMMENCING ANY WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT IMMEDIATELY. ALL UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL CONFIRM THE LOCATION ON SITE AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES. EXCLUDING THE BENCHMARK AND DESCRIPTION PROVIDED FOR THIS PROJECT, NO OTHER ELEVATIONS ARE TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE. METRIC NOTE: ALL DIMENSIONS SHOWN ARE IN METRES OR MILLIMETRES, UNLESS OTHERWISE NOTED. \*\* DRAWINGS ARE NOT TO BE SCALED \*\*

Table with 4 columns: NO., DATE, DESCRIPTION, BY. Contains a list of revisions.

- LEGEND:
GRAVEL ROADWAY RESTORATION
PAVED ROADWAY RESTORATION
45mm HL3 ASPHALT
50mm HL3 ASPHALT
150mm GRANULAR 'A'
300mm GRANULAR 'B'



DESERONTO BUILDING LOTS
ORKNEY RESIDENTIAL
GREEN STREET
DESERONTO, ONTARIO

GENERAL NOTES & DETAILS

DRAWN BY: ASG PROJECT NO: 2004776
DESIGNED BY: ASG DATE: October 2020
CHECKED BY: AR SCALE: HORIZONTAL - 1:150 VERTICAL - NA
APPROVED BY: AR CONTRACT NO: DRAWING NO: GN