

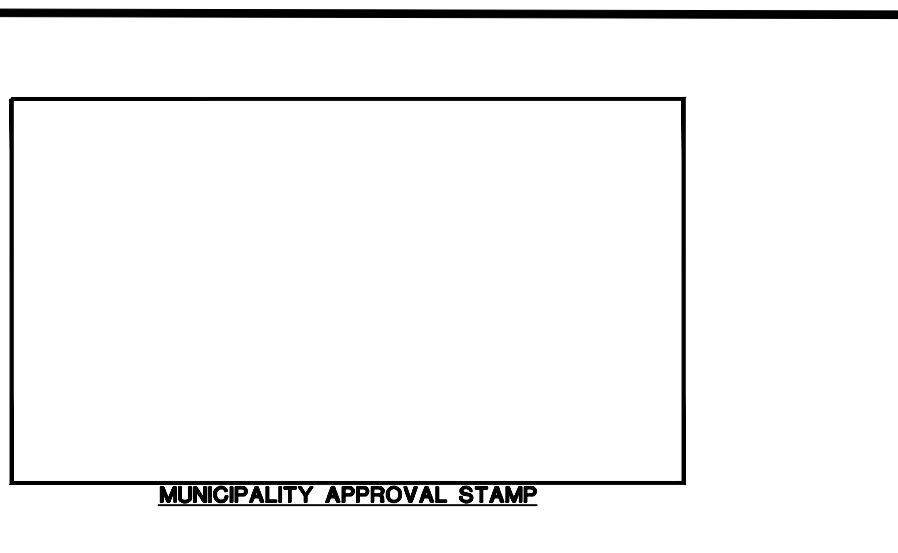
ALL WATERMAIN DISINFECTION AND MICROBIOLOGICAL TESTING WILL BE CONDUCTED BY THE DEVELOPER, UNDER THE TOWN'S SUPERVISION. THE WATERMAINS ARE NOT TO BE CONNECTED TO THE EXISTING WATERMAINS UNTIL MICROBIOLOGICAL TESTING HAS BEEN SUCCESSFULLY COMPLETED.

TEMPORARY WATERMAIN CONNECTIONS SHALL BE PROTECTED BY AN RP (REDUCED PRESSURE) BACKFLOW PREVENTION DEVICE AS PER DETAIL ON DWG 3.

BLACK ASH CREEK

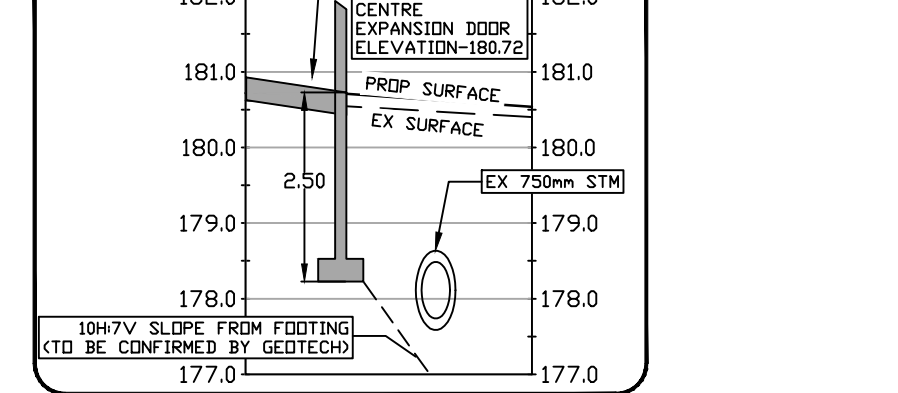
WHEN WORKING WITHIN THE WETLAND INTERFERENCE HAZARD AREA, THE CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. IF AN UNEXPECTED STORM ARRIVES, ALL ITEMS WITHIN THE HAZARD AREA THAT HAVE THE POTENTIAL TO CAUSE A SPILL/POLLUTION OR OBSTRUCTION OF FLOW MUST BE REMOVED. PRIOR TO A FORECASTED PARTICIPATION EVENT, ALL ESC MEASURES ARE TO BE INSPECTED.

WETLAND INTERFERENCE HAZARD: WITHIN THE WETLAND INTERFERENCE HAZARD AREA, SOIL DISTURBED DURING CONSTRUCTION IS TO BE RESTORED TO A PRE-DISTURBED STATE OR BETTER. DISTURBED AREAS ARE TO BE RE-VEGETATED/SEEDED WHEN THE GROWING SEASON PERMITS. FROM SEPT 15TH TO APRIL 30TH, STRUCTURAL STABILIZATION TECHNIQUES SHOULD BE UTILIZED.



KEY PLAN
Scale: N.T.S.

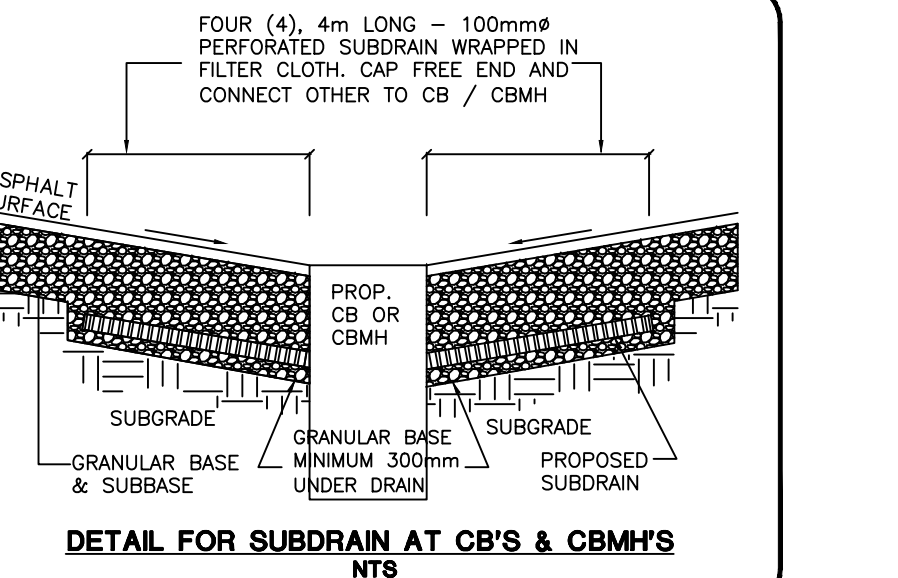
NOTES:
THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND UNDERGROUND AND ABOVE GROUND UTILITIES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING THE WORK THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO THE ARCHITECTS/ENGINEERS BEFORE PROCEEDING WITH THE WORKS.
ALL DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND THE PROPERTY OF THE ENGINEER WHICH MUST BE RETURNED AT THE COMPLETION OF WORK.
THIS DRAWING IS NOT TO BE SCALED. CONTRACTOR TO USE DIGITAL FILES FOR THIS PLAN PROVIDED BY ENGINEER.
THIS PLAN MUST NOT BE USED TO SITE THE PROPOSED BUILDINGS.
THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING, BUT NOT LIMITED TO THE FOLLOWING PERMITS: ROAD CUT, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS.
EXISTING TOPOGRAPHICAL INFORMATION SUPPLIED BY SPEIGHT, VAN NOSTRAND & GIBSON LIMITED



SECTION B - EXPANSION DEEP FOOTING
HORIZONTAL SCALE 1:200 VERTICAL SCALE 1:100

CONTRACTOR TO PROVIDE AS-BUILT SURVEY UPON COMPLETION OF ALL WORKS TO THE ODAN/DETECH GROUP. SURVEY TO BE COMPLETED BY A CERTIFIED ONTARIO LAND SURVEYOR

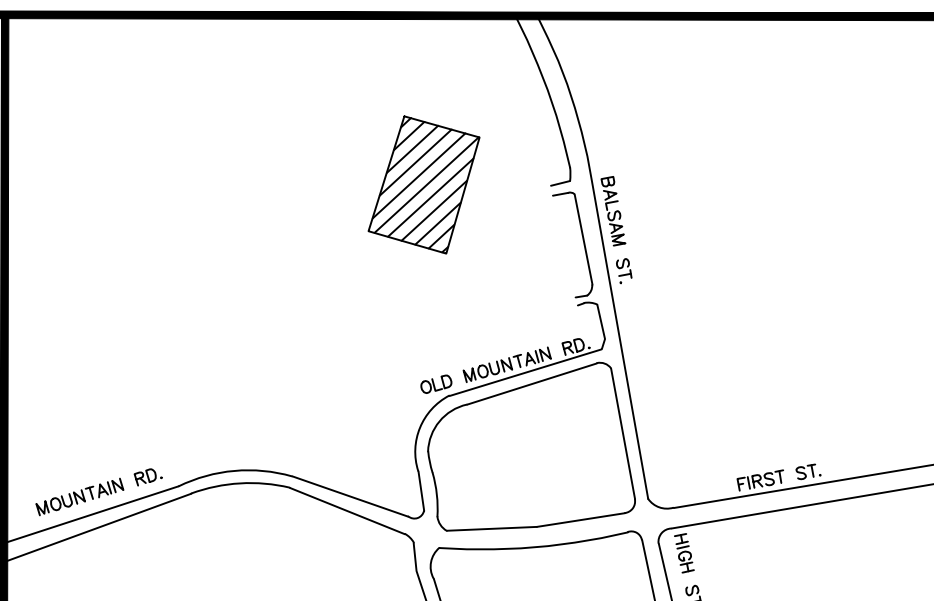
CONTRACTOR TO VERIFY ALL INVERTS, SIZE, MATERIAL, AND LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ODAN/DETECH GROUP



DETAIL FOR SUBDRAIN AT CB'S & CBMH'S

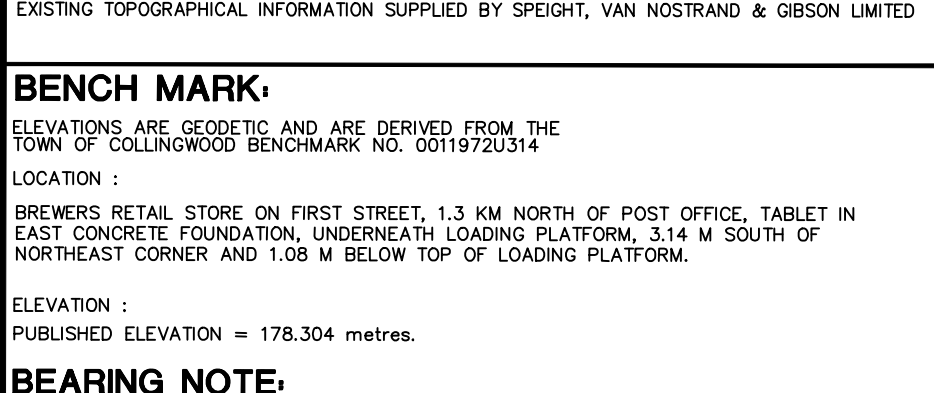
SERVICING LEGEND:

- EXISTING STORM MANHOLE
- PROPOSED STORM MANHOLE
- ⊕ EXISTING CATCHBASIN MANHOLE
- ⊕ PROPOSED CATCHBASIN MANHOLE
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING SANITARY MANHOLE
- PROPOSED SANITARY MANHOLE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- ⊕ EXISTING VALVE & BOX
- ⊕ EXISTING HYDRANT
- EXISTING SERVICE TO BE REMOVED
- ✕ EXISTING STRUCTURE TO BE REMOVED
- DENOTES PROPOSED HEAVY DUTY ASPHALT
- ▨ DENOTES PROPOSED BUILDING EXPANSION
- PROPERTY LINE
- PROPOSED LIMIT OF CONSTRUCTION



KEY PLAN
Scale: N.T.S.

NOTES:
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EXISTING TOPOGRAPHICAL INFORMATION SUPPLIED BY SPEIGHT, VAN NOSTRAND & GIBSON LIMITED



BENCH MARK:

ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM THE TOWN OF COLLINGWOOD BENCHMARK NO. 0011972314
LOCATION: BREWERS RETAIL STORE ON FIRST STREET, 1.3 KM NORTH OF POST OFFICE, TABLET IN EAST CONCRETE FOUNDATION, UNDERNEATH LOADING PLATFORM, 3.14 M SOUTH OF NORTHEAST CORNER AND 1.08 M BELOW TOP OF LOADING PLATFORM.
ELEVATION: PUBLISHED ELEVATION = 178.304 metres.

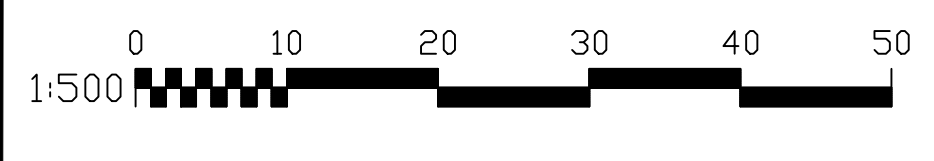
BEARING NOTE:
BEARINGS SHOWN HEREON ARE UTM GRID AND ARE DERIVED FROM THE SMARTNET NETWORK, AND ARE REFERRED TO UTM ZONE 17, CENTRAL MERIDIAN 8100° WEST LONGITUDE, NAD 83 (CSRS) (2010).
OBSERVED REFERENCE POINTS (ORP) DERIVED FROM GPS OBSERVATIONS USING THE SMARTNET NETWORK, AND ARE REFERRED TO UTM ZONE 17, CENTRAL MERIDIAN 8100° WEST LONGITUDE, NAD 83 (CSRS) (2010).
COORDINATES ARE TO AN URBAN ACCURACY AS PER SEC. 14 (2) OF ONT. REG. 216/10

POINT ID	NORTHING	EASTING
ORP 1	4928334.39	560741.13
ORP 2	4928023.43	560875.54
ORP 3	4927839.26	560574.22

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.9999623.

METRIC NOTE:
DISTANCES AND ELEVATIONS ON THIS PLAN ARE TYPICALLY SHOWN IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NO.	REVISIONS	DATE	BY
8	ISSUED FOR SPA	NOV-18-24	MLB
7	ISSUED FOR REVIEW & COORD	NOV-15-24	MLB
6	ISSUED FOR SPA	APR 03/24	MLB
5	ISSUED FOR SPA	JAN 04/24	MLB
4	ISSUED FOR SPA	JUL 27/23	MLB
3	UPDATED SITE PLAN	NOV 25/22	NM
2	REVISION WITH UPDATED SURVEY INFO	SEPT 28/22	NM
1	ISSUED FOR SPA	JAN 24/22	MLB



DRAWING TITLE:

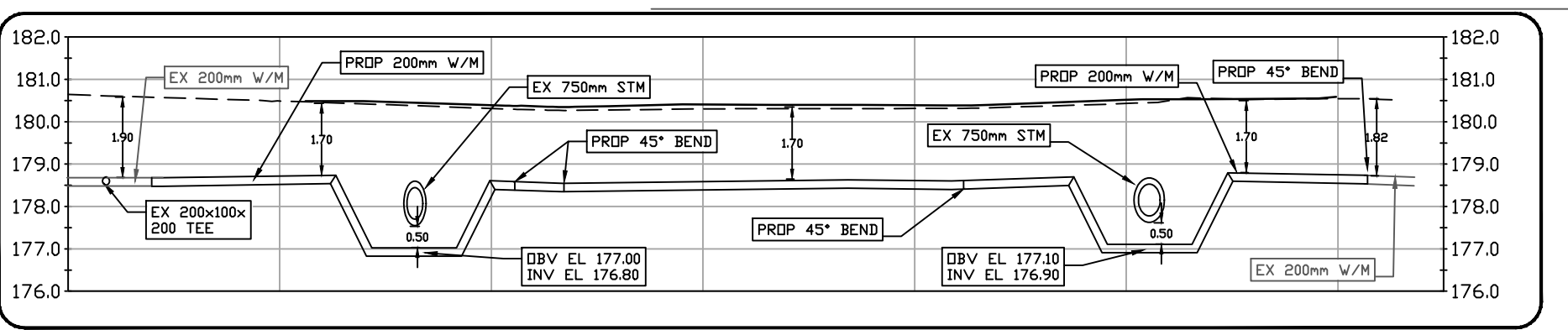
SITE SERVICING PLAN

PROJECT: **PROPOSED COMMERCIAL EXPANSION**
89 BALSAM ST.
COLLINGWOOD, ONTARIO

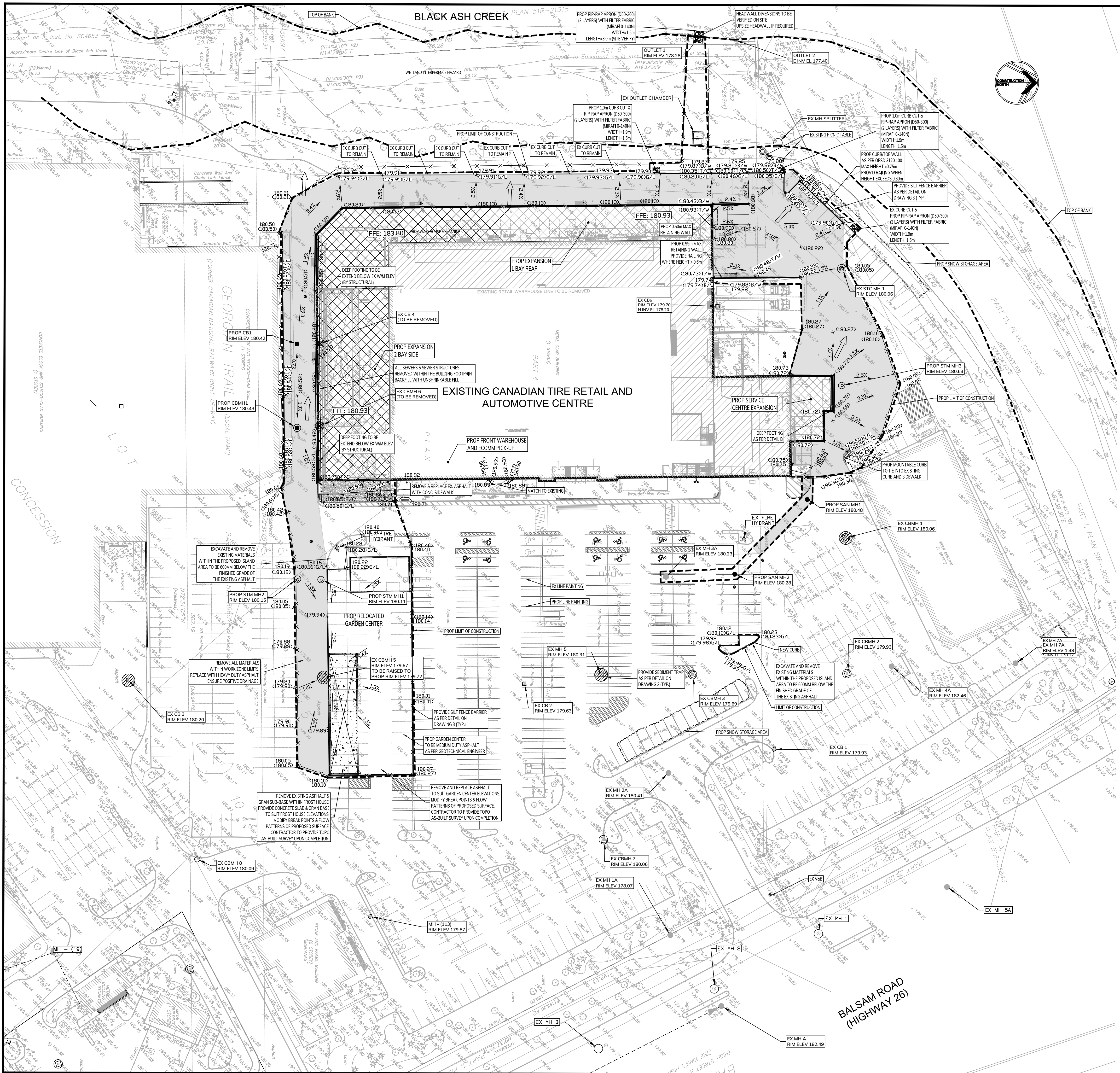
CLIENT: **CANADIAN TIRE REAL ESTATE LTD.**
2180 YONGE STREET
TORONTO, ONTARIO



	DESIGNED BY:	PROJECT NO.:
	MLB	21243
	DRAWN BY:	
	MLB	
CHECKED BY:	DATE:	
JK	DEC 2021	
APPROVED BY:	DRAWING NO.:	
JK	1	



SECTION A - PROPOSED PRIVATE WATER MAIN
HORIZONTAL SCALE 1:300 VERTICAL SCALE 1:150



CONTRACTOR TO PROVIDE AS-BUILT SURVEY UPON COMPLETION OF ALL WORKS TO THE ODAN/DETECH GROUP. SURVEY TO BE COMPLETED BY A CERTIFIED ONTARIO LAND SURVEYOR

CONTRACTOR TO VERIFY ALL INVERTS, SIZE, MATERIAL, AND LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ODAN/DETECH GROUP

KEY PLAN
Scale: 1:N.T.S.

NOTES:
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EXISTING TOPOGRAPHICAL INFORMATION SUPPLIED BY SPEIGHT, VAN NOSTRAND & GIBSON LIMITED

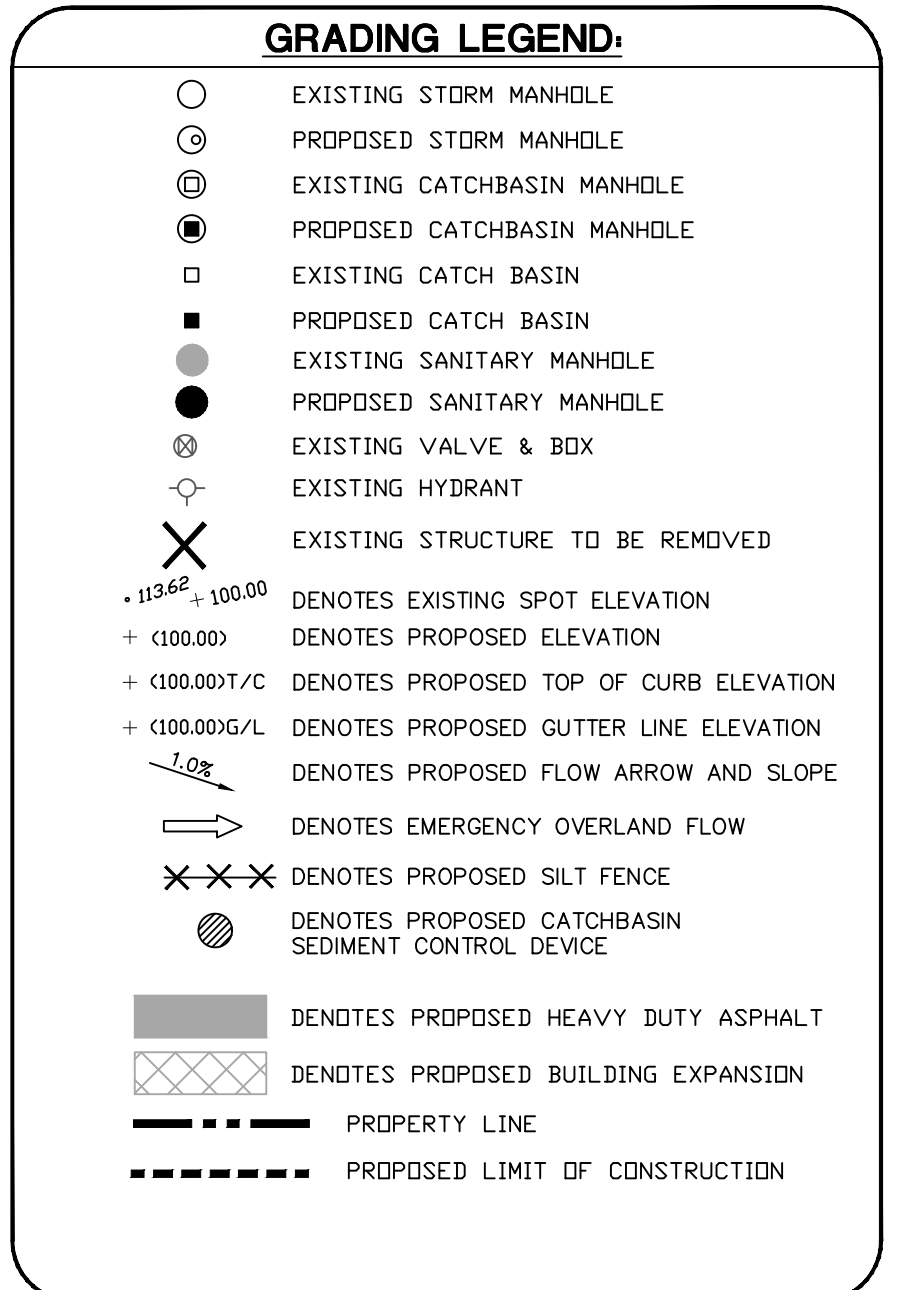
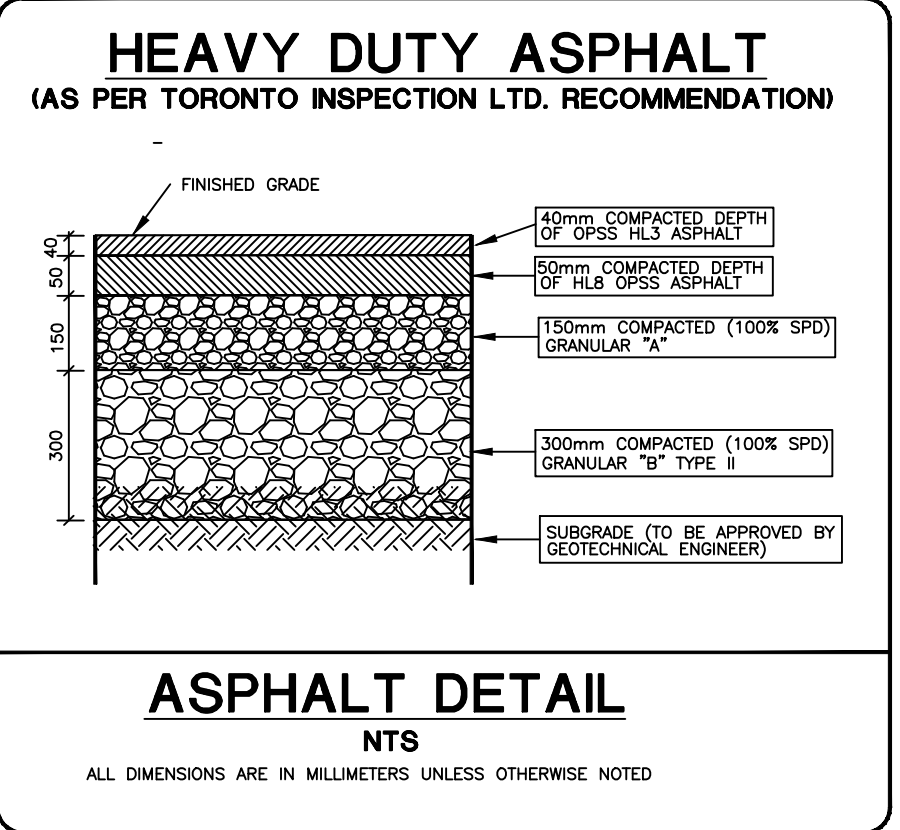
BENCH MARK:
ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM THE TOWN OF COLLINGWOOD BENCHMARK NO. 001972314
LOCATION:
BREWERS RETAIL STORE ON FIRST STREET, 1.3 KM NORTH OF POST OFFICE, TABLET IN EAST CONCRETE FOUNDATION, UNDERNEATH LOADING PLATFORM, 3.14 M SOUTH OF NORTHEAST CORNER AND 1.08 M BELOW TOP OF LOADING PLATFORM.
ELEVATION:
PUBLISHED ELEVATION = 178.304 metres.

BEARING NOTE:
BEARINGS SHOWN HEREON ARE UTM GRID AND ARE DERIVED FROM THE SMARTNET NETWORK, AND ARE REFERRED TO UTM ZONE 17, CENTRAL MERIDIAN 8100' WEST LONGITUDE, NAD 83 (CSRS) (2010).
OBSERVED REFERENCE POINTS (ORP) DERIVED FROM GPS OBSERVATIONS USING THE SMARTNET NETWORK, AND ARE REFERRED TO UTM ZONE 17, CENTRAL MERIDIAN 8100' WEST LONGITUDE, NAD 83 (CSRS) (2010).
COORDINATES ARE TO AN URBAN ACCURACY AS PER SEC. 14 (2) OF ONT. REG. 216/10

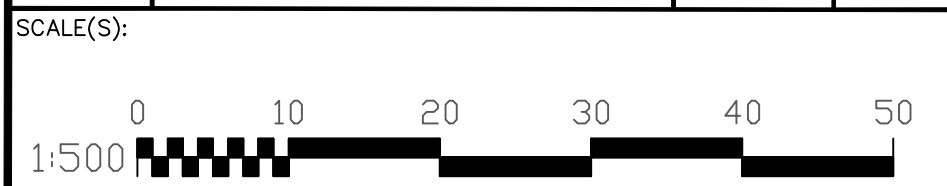
POINT ID	NORTHING	EASTING
ORP 1	4928334.39	560741.13
ORP 2	4928023.43	560787.54
ORP 3	4927839.26	560574.22

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999623.

METRIC NOTE:
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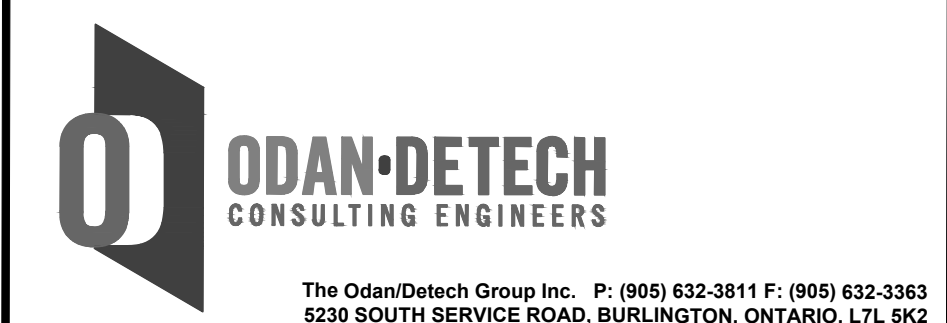
NO.	REVISIONS	DATE	BY
8	ISSUED FOR SPA	NOV-18-24	MLB
7	ISSUED FOR REVIEW & COORD	NOV-15-24	MLB
6	ISSUED FOR SPA	APR 03/24	MLB
5.	ISSUED FOR SPA	JAN 04/24	MLB
4.	ISSUED FOR SPA	JUL 27/23	MLB
3.	UPDATED SITE PLAN	NOV 25/22	NM
2.	REVISION WITH UPDATED SURVEY INFO	SEPT 28/22	NM
1.	ISSUED FOR SPA	JAN 24/22	MLB



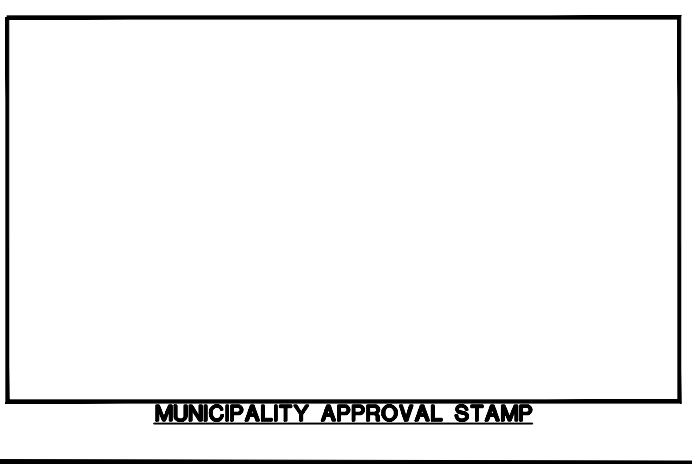
DRAWING TITLE:
SITE GRADING & EROSION CONTROL PLAN

PROJECT:
PROPOSED COMMERCIAL EXPANSION
89 BALSAM ST.
COLLINGWOOD, ONTARIO

CLIENT:
CANADIAN TIRE REAL ESTATE LTD.
2180 YONGE STREET
TORONTO, ONTARIO



	DESIGNED BY:	PROJECT No.:
	MLB	21243
	DRAWN BY:	
	MLB	
CHECKED BY:	DATE:	
JK	DEC 2021	
APPROVED BY:	DRAWING No.:	
JK	2	
ENGINEER		



GENERAL NOTES

- DRAWINGS ARE NOT TO BE SCALED.
- DO NOT SITE BUILDINGS WITH THIS DRAWING.
- ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE SITE PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS THE STANDARD TOWN, REGION/COUNTY, MTO AND OPSD AND OPSD ARE TO CONSTITUTE PART OF THIS CONTRACT AND SITE PLAN DRAWINGS.
- REFER TO TOWN STANDARDS AND SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS AND MATERIALS.
- EXISTING STRUCTURES ARE NOT TO BE DISTURBED, NOR ENCROACHMENT ON ADJACENT PROPERTIES UNLESS INSTRUCTED BY THE ENGINEER.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNERS CONTRACTOR FROM OBTAINING AND PAYING FOR, BUT NOT LIMITED TO THE FOLLOWING PERMITS, ROAD CUTS, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS, ETC. ALL RESTORATION AS PER TOWN STANDARDS.
- PRIOR TO CONSTRUCTION, THE ENGINEER IS TO BE NOTIFIED BY THE OWNER AND THE CONTRACTOR AS TO THE EXTENT OF THE CONSTRUCTION LIMITS THEY PROPOSE. THE TOWN IS TO BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE SITE PLAN, LANDSCAPE PLAN, SITE ELECTRICAL PLANS, AND ANY OTHER PLANS OR DRAWINGS WHICH DEPICT WORKS THAT ARE PROPOSED FOR THIS SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS FOR THE TOWN AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR ONTARIO.
- THE CONTRACTOR SHALL ENDEAVOR TO PREVENT MUD TRACKING ONTO EXISTING RIGHT-OF-WAYS AND SHALL PROVIDE FOR CLEANUP AT HIS OWN EXPENSE AS DIRECTED BY THE TOWN. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTROL DUST ON THE PROJECT AND HE SHALL PROVIDE AT HIS OWN EXPENSE, CONTROLLING MEASURES AS DIRECTED BY THE TOWN.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO AND DURING CONSTRUCTION. LOCATION OF EXISTING UTILITIES TO BE VERIFIED IN THE FIELD.
- THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE TOWN.
- BLASTING WILL NOT BE ALLOWED UNLESS AUTHORIZED BY THE TOWN.
- ANY UTILITY RELOCATIONS DUE TO THIS DEVELOPMENT TO BE UNDERTAKEN AT THE EXPENSE OF THE OWNER/DEVELOPER.
- ALL DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND THE PROPERTY OF THE ENGINEER WHICH MUST BE RETURNED AT THE COMPLETION OF WORK.
- DRIVEWAYS SHALL BE SETBACK A MINIMUM CLEARANCE OF 1.0 m. FROM ALL ABOVEGROUND SERVICES OR OTHER OBSTRUCTIONS.
- 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.
- CONSTRUCTION ACCESS SHALL BE CONSTRUCTED WITH A MIN. OF 450mm THICK CRUSHED STONE BASE FROM MUNICIPAL CURB OR EDGE OF PAVEMENT TO THE PROPERTY LINE TO THE SATISFACTION OF THE TOWN. LOCATION SHALL BE AS PER THE TOWN.
- MINIMUM CLEARANCE OF 1.0m FROM ALL ABOVE GROUND SERVICES AND UTILITIES.
- OUTSIDE LIGHTING TO BE DIRECTED DOWNWARD AS WELL AS INWARD AND DESIGNED TO MAINTAIN ZERO CUTOFF LIGHT DISTRIBUTION AT THE PROPERTY LINE.
- ALL WORKS WITHIN TOWN RIGHT-OF-WAY TO BE PERFORMED BY TOWN FORCES OR AN APPROVED CONTRACTOR AS PER TOWN AGREEMENT, UNLESS OTHERWISE DIRECTED BY THIS ENGINEER.
- ALL EXISTING SEWERS ARE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION INCLUDING SEWER INVERTS, MATERIAL TYPE, AND SIZE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- ALL RELOCATION, RECONSTRUCTION AND RESTORATION TO BE PERFORMED TO THE SATISFACTION OF THE DIRECTOR OF ENGINEERING.

GRADING

- THE GRADING PLAN IS TO BE READ WITH THE SITE SERVICES DRAWING AND THE SITE PLAN. FOR BUILDING DETAILS REFER TO THE LATEST REVISION OF THE SITE PLAN AS PER THE ARCHITECT.
- CONTRACTOR TO RESTORE ALL DISTURBED AREAS (I.E. PUBLIC R.O.W., ADJACENT LANDS) WHICH HAVE BEEN DISTURBED DURING CONSTRUCTION TO PREVIOUS OR BETTER CONDITION.
- ALL DRIVEWAY AND GRADING MATERIAL AND CONSTRUCTION METHODS MUST CONFORM TO CURRENT TOWN STANDARDS AND SPECIFICATIONS.
- ALL FILL WITHIN THE SITE TO BE COMPACTED TO A MIN. OF 100% STD. PROCTOR DENSITY. THE SUITABILITY OF ALL FILL MATERIALS ARE TO BE CONFIRMED BY A RECOGNIZED SOILS CONSULTANT TO THE DIRECTOR OF ENGINEERING PRIOR TO INSTALLATION OF ANY ROAD BASE MATERIALS.
- LANDSCAPE SHALL NOT ENCROACH ON BOULEVARD NOR SHALL BOULEVARD GRADES BE ALTERED.
- SILT FENCE(S) TO BE INSTALLED AND MAINTAINED TO PREVENT SILT FLOWING ONTO ADJACENT LANDS SILTATION CONTROL METHODS SUCH AS ENVIROFENCE OR APPROVED EQUAL SHALL BE ERECTED PRIOR TO ANY GRADING OR CONSTRUCTION AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- ANY CHANGES IN GRADES OR CATCH BASINS REQUIRE THE APPROVAL OF THE ODM/DETECH GROUP INC.
- THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE CITY.
- ALL LANDSCAPING TO BE INSTALLED AS SOON AS POSSIBLE OR PRIOR TO THE END OF THE FIRST GROWING SEASON. LANDSCAPING TO BE MAINTAINED UNTIL IT IS ESTABLISHED.
- ALL CONNECTIONS WITH PAVED PORTIONS OF EXISTING ROADS TO BE BACKFILLED WITH GRANULAR "A" MATERIAL OR LATEST CITY SPECIFICATIONS AND COMPACTED TO 100 % SPD.
- CONSTRUCTION ACCESS SHALL BE CONSTRUCTED WITH A MIN. OF 450mm THICK CRUSHED STONE BASE FROM MUNICIPAL CURB OR EDGE OF PAVEMENT TO THE PROPERTY LINE TO THE SATISFACTION OF THE CITY.
- ALL CURBS ARE TO BE 150mm ABOVE THE PROPOSED GUTTER LINE (G/L) UNLESS NOTED OTHERWISE.
- PAVEMENT GRADE (MIN. 0.5%, MAX. 5%).
- DRAINAGE SWALES WITH GRADES (MIN. 2%, MAX. 5%).
- SLOPES IN LANDSCAPE AREAS AND ON BERMS SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL.

CURBING/SIDEWALKS/ASPHALT

- ALL PROPOSED INTERNAL CURBING TO BE BARRIER TYPE AS PER ARCHITECT DETAIL. ALL TOPS OF CURBS TO BE 150mm ABOVE PROPOSED GUTTER LINE, UNLESS OTHERWISE NOTED.
- ALL REQUIRED CURBING AND CURB DEPRESSIONS AT SIDEWALK CROSSINGS SHALL BE INSTALLED TO THE SATISFACTION OF THE TOWN AND AS PER TOWN DRAWING.
- ALL PROPOSED ROAD CUTS TO BE PERFORMED AND RESTORED TO THE SATISFACTION OF THE TOWN, AND IN ACCORDANCE WITH TOWN STANDARDS & SPECIFICATIONS.
- CONCRETE SIDEWALK WITHIN PUBLIC R.O.W. AS PER OPSD-310.010 AND OPSD-310.020 (ADJACENT TO CURB). ALL RAMPS SHALL BE AS PER OPSD-310.031. ALL SIDEWALKS SHALL BE 300mm WITH 7% AIR ALL CONCRETE SIDEWALKS TO BE MINIMUM 150mm THICK AT RESIDENTIAL DRIVEWAYS AND 200mm THICK THROUGH COMMERCIAL/INDUSTRIAL ENTRANCES HAVE 150mm GRANULAR "A" BASE, COMPACTED TO 100% SPD.
- ALL HEAVY DUTY ASPHALT WITHIN THE SITE SHALL BE AS PER THE FOLLOWING SPECIFICATIONS:
 - 40mm COMPACTED DEPTH OF HL3 ASPHALT - TOP COURSE
 - 50mm COMPACTED DEPTH OF HL8 ASPHALT - BINDER COURSE
 - 150mm COMPACTED (100% SPD) GRANULAR "A"
 - 300mm COMPACTED (100% SPD) GRANULAR "B"
- ALL MEDIUM DUTY ASPHALT WITHIN THE SITE SHALL BE AS PER THE GEOTECHNICAL ENGINEERS RECOMMENDATION.
- ALL SECTIONAL PRE-CAST CONCRETE CURBING AS PER OPSD-603.02.
- PERIMETER SUBDRAINS SHOULD BE PROVIDED AROUND PARKING AREAS AND ALONG DRIVEWAYS.

GENERAL NOTES LEGISLATION, REGULATION AND CODES

- ALL WORK SHALL BE COMPLETED ACCORDING TO THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
- ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE ACCORDING TO THE CURRENT ONTARIO TRAFFIC MANUAL BOOK 2: TEMPORARY CONDITIONS REED EDITION.

SERVICING NOTES STORM SEWERS

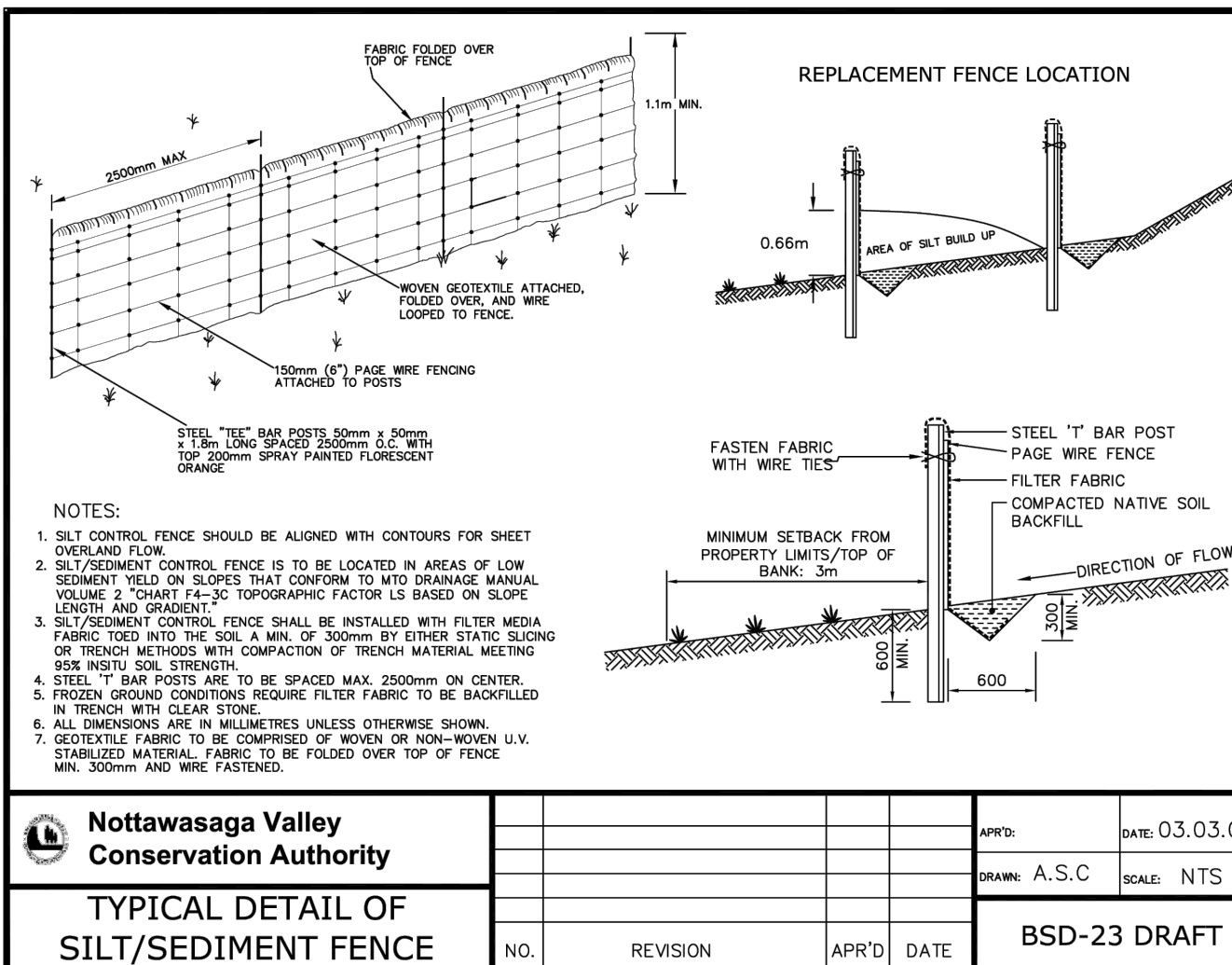
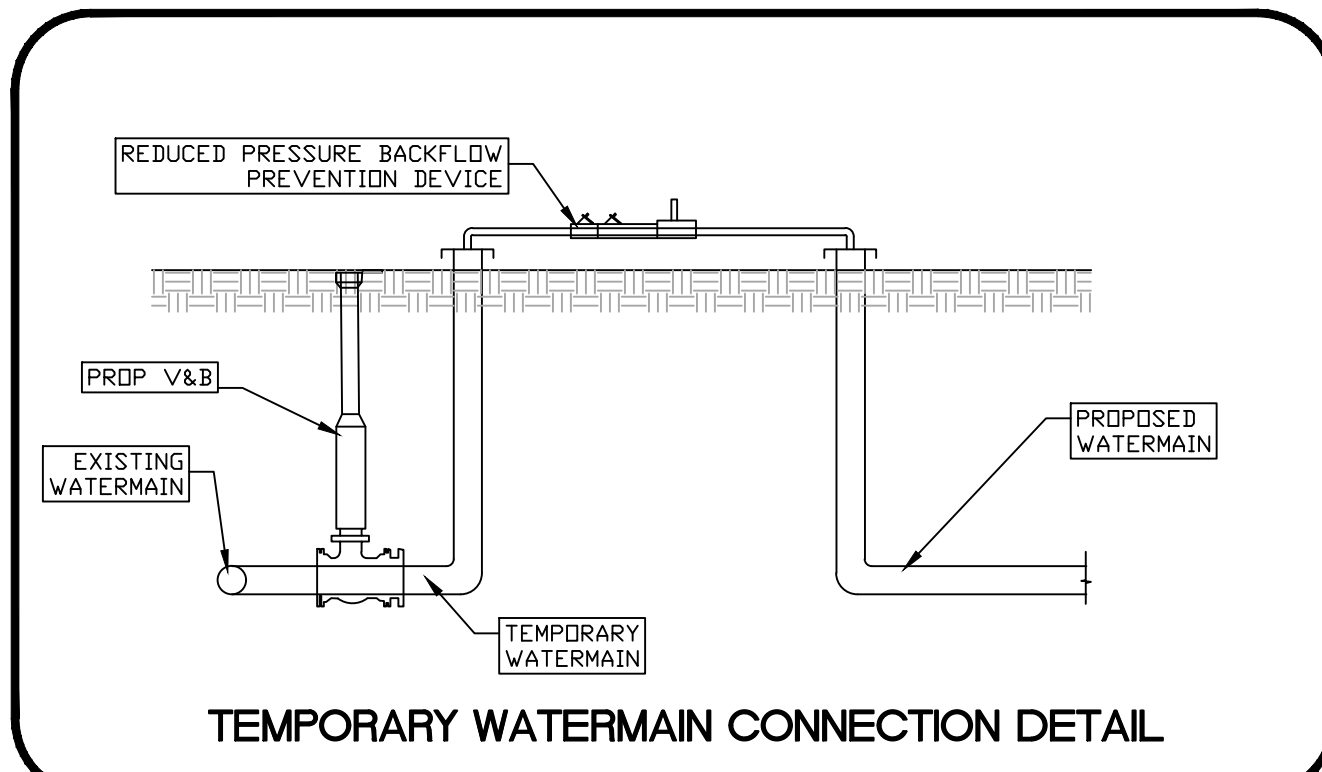
- ALL STORM SEWERS 450mmØ AND SMALLER TO BE PVC SDR 35 IN ACCORDANCE WITH CSA-B182.2, ASTM D-2779 AND ASTM D-3034 OR LATEST REVISIONS UNLESS OTHERWISE NOTED. 525mmØ AND LARGER TO BE CONCRETE IN ACCORDANCE WITH CSA A257.2, CLASS 650 OR LATEST REVISIONS. UNLESS OTHERWISE NOTED. ROOF TOP STORM LEADS 150mmØ AND SMALLER TO BE PVC SDR 28.
- ULTRA RIBBED PVC PIPE SHALL NOT BE USED, UNLESS OTHERWISE DIRECTED BY THIS ENGINEER.
- ALL CATCH BASIN LEADS TO BE A MINIMUM OF 250mmØ PVC SDR 35 IN ACCORDANCE WITH CSA-B182.2, ASTM D-2779 AND ASTM D-3034 OR LATEST REVISIONS, UNLESS OTHERWISE NOTED. THE MINIMUM GRADE ON A PROPOSED CATCH BASIN SHALL BE 2.0%.
- BEDDING AND COVER FOR PVC SEWERS (FLEXIBLE PIPE) AS PER OPSD 802.010, GRANULAR "A" COMPACTED TO 100% SPD.
- BEDDING AND COVER FOR CONCRETE SEWERS (RIGID PIPE) AS PER OPSD 802.030, CLASS B, GRANULAR "A", COMPACTED TO 100% SPD, UNLESS OTHERWISE SPECIFIED.
- ALL STORM SERVICES TO BUILDINGS SHALL BE AT A MINIMUM SLOPE OF 1.0%
- THE CONTRACTOR IS TO CAP ALL STORM SERVICES 1.5 METRES AWAY FROM THE PROPOSED BUILDING LINES UNLESS OTHERWISE NOTED.
- CULVERT THICKNESS SHALL BE 1.6mm MINIMUM WITH LENGTHS IN STANDARD INCREMENTS OF 3, 6, AND 7 METRES.
- STORM MANHOLES SHALL BE AS PER OPSD-701.010, 701.011, 701.012, 701.013 AS SPECIFIED, BENCHING TO SPRINGLINE OF PIPE AS PER OPSD-701.021. FRAME & COVER AS PER OPSD-401.01, (TYPE A CLOSED COVER)
- ALL CATCH BASIN MANHOLES AS PER OPSD 701.010. FRAME AND GRATE AS PER OPSD 400.02.
- ALL MANHOLE AND CATCH BASIN ADJUSTMENTS SHALL BE AS PER OPSD-704.010. MAXIMUM OF THREE (3) UNITS AND 300mm HIGH, WHERE EXCEED CAST-IN-PLACE OR PRE-CAST RISER SECTIONS SHALL BE PROVIDED.
- ALL SAFETY GRATES AS PER OPSD 404.020 FOR MANHOLES > 5.0m DEPTH.
- EXISTING STORM MANHOLE(S) TO BE RE-BENCHING AS REQUIRED, AS PER OPSD-701.021.
- ALL CATCH BASINS SHALL BE INSTALLED IN ACCORDANCE WITH OPSD 705.010, INCLUDE GOSS TRAP IF REQUIRED BY TOWN. ALL CATCH BASIN FRAMES AND COVERS AS PER OPSD 400.02.
- ALL DOUBLE CATCH BASINS SHALL BE INSTALLED IN ACCORDANCE WITH OPSD-705.020, INCLUDE GOSS TRAP IF REQUIRED BY TOWN. ALL CATCH BASIN FRAMES AND COVERS AS PER OPSD 400.02.
- ALL DITCH INLET CATCH BASINS SHALL BE AS PER OPSD-705.030, WITH RIP-RAP TREATMENT AS PER OPSD-810.02, WITH GEOTEXTILE (MIRAFI P-140N).
- ALL CATCH BASIN CONNECTIONS SHALL BE AS PER OPSD-708.01 (RIGID PIPE) AND OPSD-708.03 (FLEXIBLE PIPE).
- ALL CATCH BASINS CONSTRUCTED IN FILL AREAS TO BE SUPPORTED IN 14MPa CONCRETE.
- AT ALL CATCH BASIN & CATCH BASIN MANHOLE SAC POINTS INCLUDE FOUR (4) 4.0m LONG, 100mmØ PVC SUBDRAINS WITH FILTER CLOTH. CAP ONE END AND CONNECT THE OTHER TO THE CATCH BASIN OR CATCH BASIN MANHOLE.
- ALL SEWER SERVICE CONNECTIONS FOR RIGID PIPE SHALL BE AS PER OPSD-1006.01.
- ALL SEWER SERVICE CONNECTIONS FOR FLEXIBLE PIPE SHALL BE AS PER OPSD-1006.02.
- ALL CONCRETE OUTLETS AS PER OPSD 605.030 WITH ASPHALT SPILLWAY AND RIP-RAP.
- ALL RIP-RAP TREATMENT FOR SEWER AND CULVERT OUTLETS SHALL BE AS PER OPSD-810.01, TYPE "B" WITH GEOTEXTILE (MIRAFI P-140N).
- ALL PAVEMENT REINSTATEMENT SHALL BE AS PER OPSD-509.010, FOR UTILITY CUTS, BACKFILL AS PER TOWN STD.
- ALL TESTING OF STORM SERVICES TO BE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE COLOUR VIDEO OF STORM SEWER UPON COMPLETION TO THE ENGINEER.
- CONTRACTOR SHALL PROVIDE INSULATION FOR STORM SEWERS WITH LESS THAN 1.5m OF COVER.

WATER

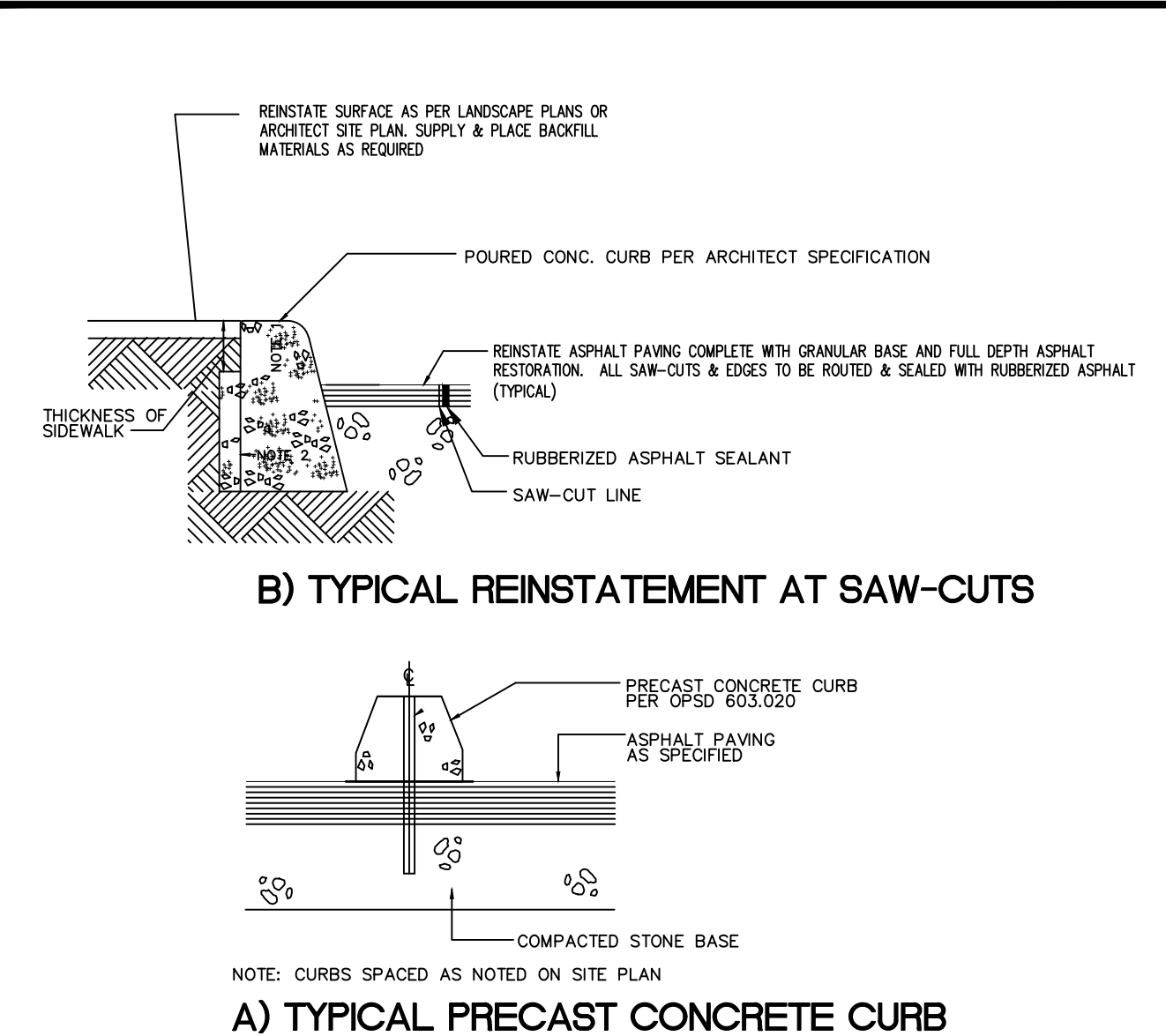
- WATERMAIN PIPE TO BE PVC-SDR 18 CL 150 CONFORMING TO CSA B137.3, INCLUDING NO. 8 TRACER WIRE BETWEEN HYDRANTS OR OTHER CONDUCTING APPURTENANCES. PIPE SHALL HAVE A MINIMUM COVER OF 1.7m. ALL WATER MAIN JOINTS TO BE APPROVED PUSH-ON, MECHANICAL OR FLANGE TYPE JOINTS AS REQUIRED FOR 1000 KPa RATED PRESSURE. CORROSION PROTECTION FOR ALL FITTINGS, VALVES AND HYDRANTS (HYPROTEC OR EQUAL).
- ALL DOMESTIC WATER SERVICES SHALL BE TYPE "K" SOFT COPPER AND INSTALLED AS PER OPSD-1104.01 (20mm&23mm) AND OPSD-1104.02 (32mm, 38mm AND 50mm), SIZE AS PER PLAN.
- BEDDING AND COVER AS PER OPSD 802.010, TYPE 1 & 2, GRANULAR "A" COMPACTED TO 100% SPD.
- ALL WATER MAIN FITTINGS AND APPURTENANCES TO BE SELECTED FROM TOWN APPROVED MATERIAL LIST FOR WATER.
- WATER MAINS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 0.50m BELOW AND 0.30m ABOVE AND A HORIZONTAL SEPARATION OF 2.5m BETWEEN ANY SEWER OR MANHOLE.
- EXISTING WATER MAIN SHALL BE DEFLECTED BELOW PROPOSED GRADES TO MEET 1.7m COVER AS PER TOWN STANDARDS AND SPECIFICATIONS. REPLACE WATER MAIN IF NECESSARY.
- CONTRACTOR TO CONFIRM THE SIZE AND MATERIAL TYPE OF EXISTING WATER SERVICE AND WATER MAIN PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER.
- EXISTING WATER MAIN OBVERTS TO BE CONFIRMED ON SITE AT THE TIME OF CONSTRUCTION.
- ALL TAPPING SLEEVES TO BE STAINLESS STEEL SIMILAR TO MUELLER TYPE, COMPLETE WITH VALVE.
- ALL PAVEMENT REINSTATEMENT SHALL BE AS PER OPSD-509.010, FOR UTILITY CUTS, BACKFILL AS PER TOWN STD.
- FLUSHING, SWABBING, AND TESTING OF WATER MAIN AS PER ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS.

EROSION AND SEDIMENT CONTROL

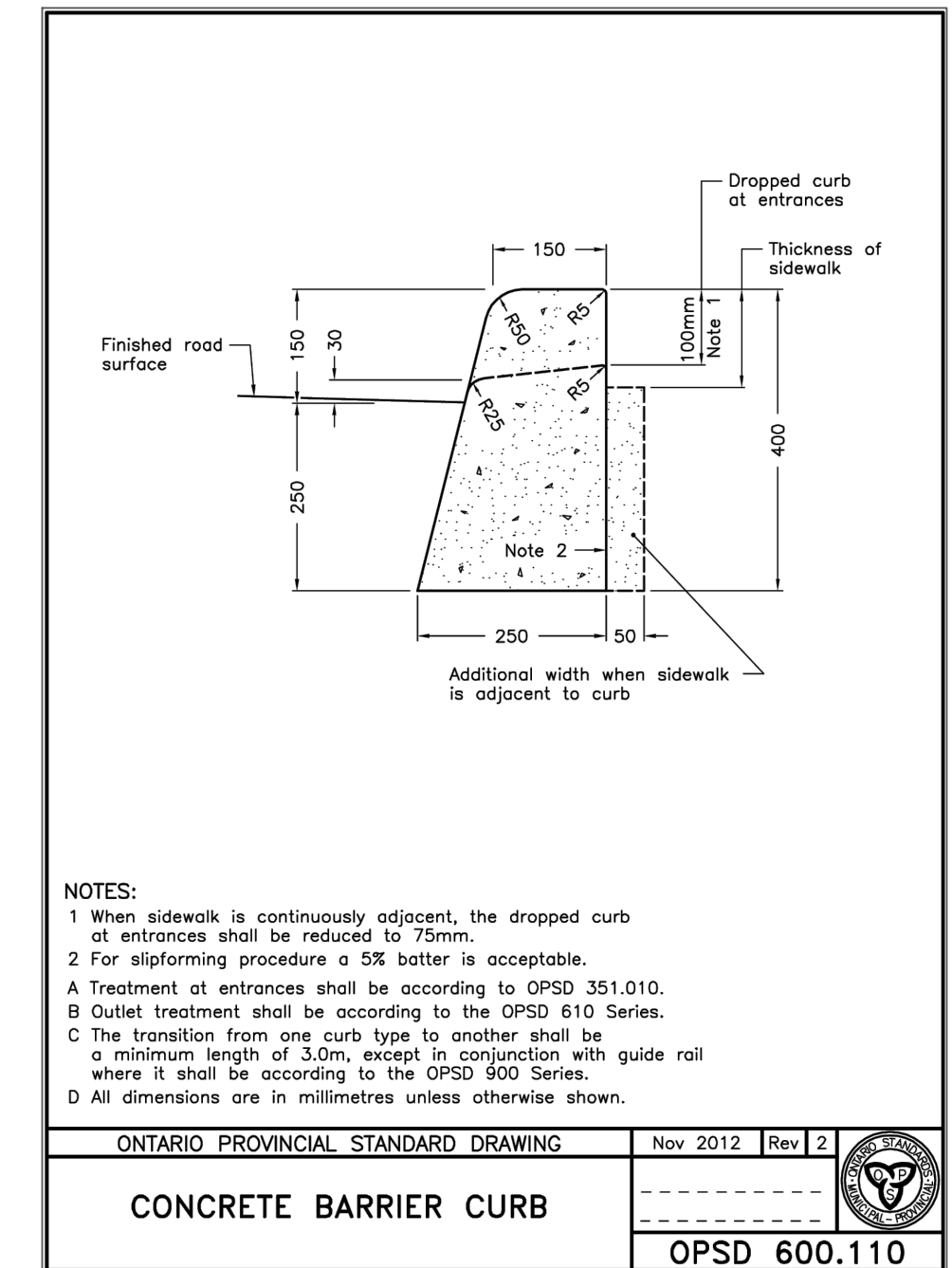
- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING CONSTRUCTION PHASES TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED OR REPLACED WITHIN 48 HOURS OF INSPECTION OR SOON THEREAFTER.
- ALL DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
- THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPDATED/ADDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LOADS RUNOFF FROM LEAVING THE WORK AREA IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A HETEROGENEOUS SUBSTANCE, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS AND A TORONTO REGION CONSERVATION AUTHORITY ENFORCEMENT OFFICE SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
- ALL ACTIVITIES INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DETERIOROUS SUBSTANCES INTO THE WATER/VEGETATION REFUELING AND MAINTENANCE AND REFUELING WILL BE CONDUCTED A MINIMUM OF 50 m FROM THE WATER.



NO.	REVISION	APR'D	DATE	SCALE
				NTS



A) TYPICAL PRECAST CONCRETE CURB



CONCRETE BARRIER CURB

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2012 Rev 2

OPSD 600.110

Drawn by: A.S.C. Scale: NTS

Date: 03.03.06

Project: BSD-23 DRAFT

Author: Nottawasaga Valley Conservation Authority

Checked by: A.S.C.

Approved by: A.S.C.

Scale: NTS

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