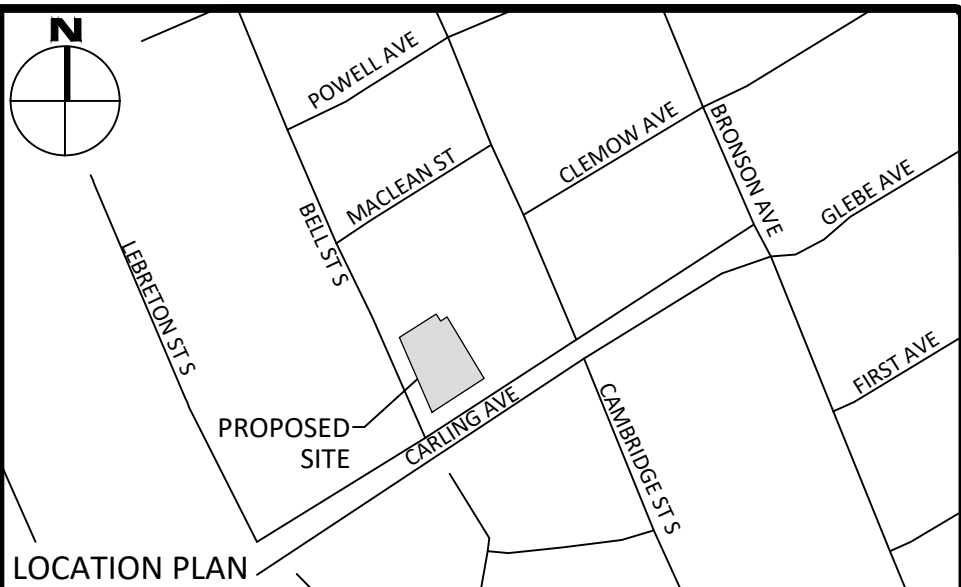
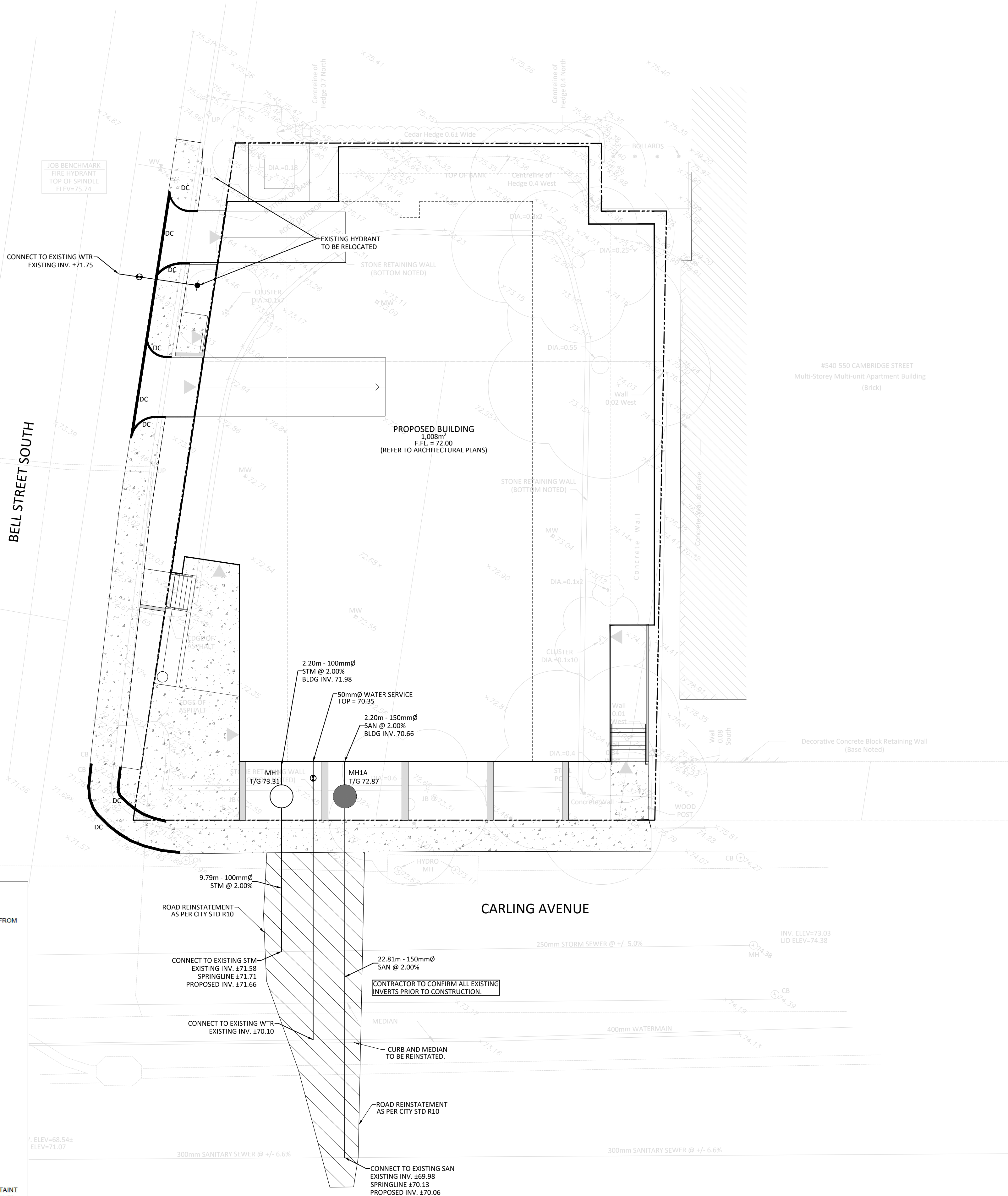
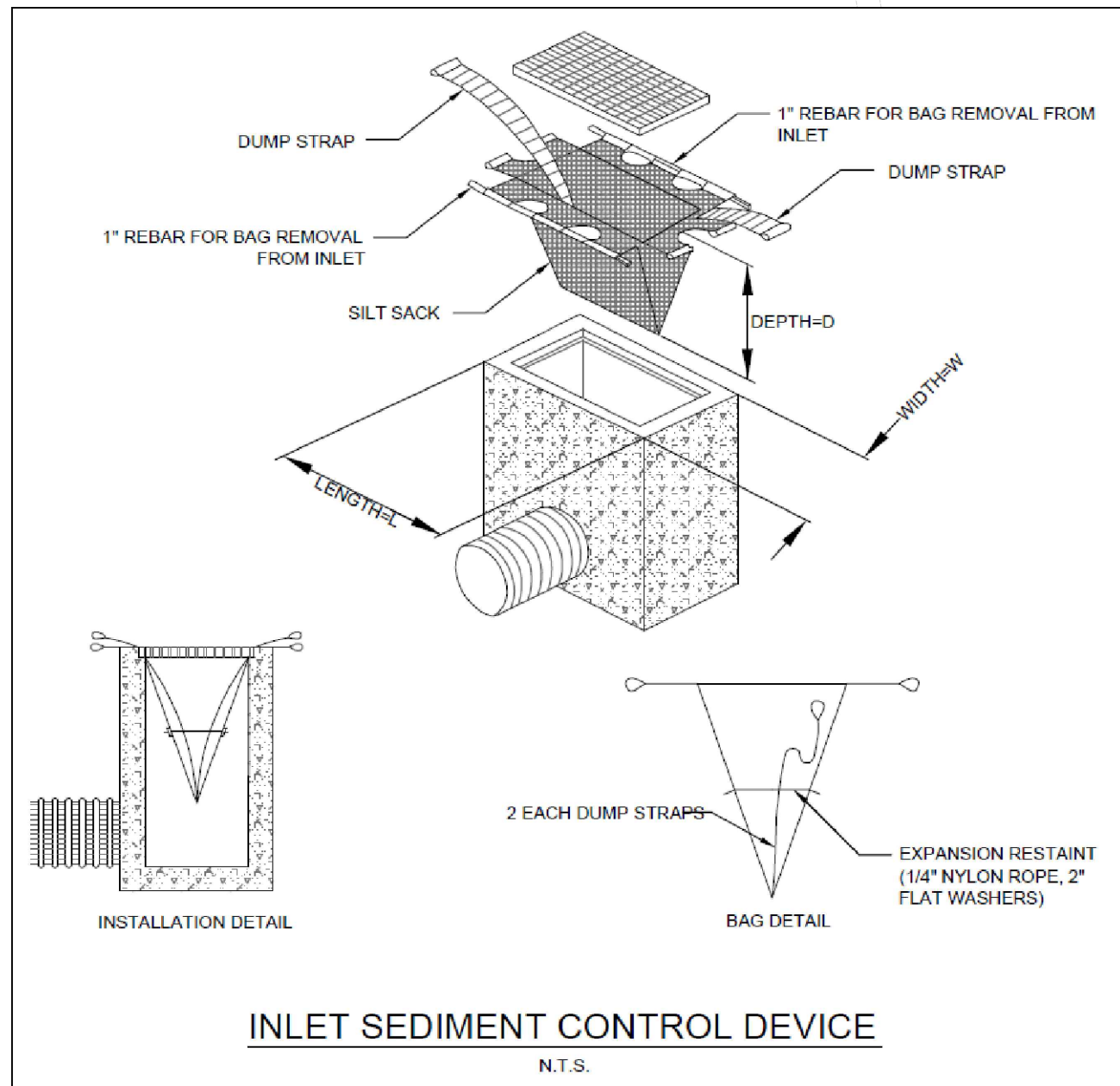


1. CONSTRUCT ALL SEWERS AND APPURTENANCES TO CITY OR TOWNSHIP STANDARDS (IF AVAILABLE) OR AS PER OPD STD STANDARDS.
2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
3. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
4. SUB-BEDDING, IF REQUIRED SHALL BE AS PER THE DIRECTION OF A GEOTECHNICAL ENGINEER.
5. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR SAND.
6. TO MINIMIZE DIFFERENTIAL ROOT HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0m BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
7. SEWERS AND CONNECTIONS 150mm DIAMETER AND SMALLER TO BE PVC SDR 28 OR APPROVED EQUIVALENT. SEWERS AND CONNECTIONS 200mm DIAMETER AND LARGER TO BE APPROVED EQUIVALENT.
8. INSULATE ALL SEWERS AND/OR SERVICES THAT HAVE LESS THAN 1.5m OF COVER WITH THERMAL INSULATION AS PER OPD 1109.030.
9. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED WITH 2"x4" x8" LONG MARKER.
10. CONTRACTOR TO TELEPHONE (CTV) ALL PROPOSED SEWERS ON SITE. OUTLET CONNECTION TO EXISTING PIPES 150mm OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
11. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN.
12. ALL CATCHBASIN AND CATCHBASIN MANHOLE LEADS ARE TO BE MINIMUM 200mm WITH MINIMUM 1.0% SLOPE UNLESS OTHERWISE NOTED.
13. ALL CATCHBASIN EXCLUDING LANDSCAPE CATCHBASIN ARE TO HAVE 150mm Ø TERTIARY PIPE FOR 3.0m ON ALL AVAILABLE SIDES AS PER CITY OF OTTAWA STANDARD DRAWING "R1".






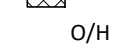


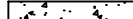











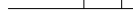


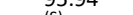

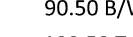
SAN STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH1A	72.87	NW70.620	SE70.586	COVER CITY STD S24 FRAME CITY STD S25 STRUC. OPSD 701.010

1. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY OR TOWNSHIP STANDARDS.
2. INDUSTRIAL/COMMERCIAL TYPE SERVICE CONNECTIONS TO BE 50mm COPPER PIPING AND SHALL CONFORM TO ASTM 888 TYPE 'K' SCOT.
3. THERMALMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m.  
OTHERWISE THERMAL INSULATION IS REQUIRED AS PER CITY OR TOWNSHIP STANDARDS (IF AVAILABLE) OR OPSD 1109.03.
4. IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
5. USE APPROVED SADDLE CONNECTION WITH MAIN (CORPORATION) STOP AS PER CITY OF OTTAWA STANDARD DRAWING 'W26'.
6. CONNECTION TO EXISTING BY CITY OR TOWNSHIP FORCES, EXCAVATION, BACKFILLING AND REINSTATEMENT IS TO BE COMPLETED BY THE CONTRACTOR.
7. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY OR TOWNSHIP STANDARDS (IF AVAILABLE) OR OPSD 1109.03.
8. THERMAL INSULATION OF WATERMAINS UNDER ROAD SIDE DITCHES AS PER CITY OF OTTAWA STANDARD DRAWING 'W21'.
9. SWABING, CHLORINATION AND CONTINUITY TESTING FOR PROPOSED WATER SERVICES IS TO FOLLOW CITY OF OTTAWA SPECIAL PROVISIONS #5F-4491 & 3P-4494.

- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION OF ALL ACTIVITIES. THE USE OF EROSION CONTROL OR EXPOSED SOIL TEMPORARY SEDIMENT CONTROL (GEOSOCK INSERTS WITH AN OVERFLOW UNDER GRATE OR COVER) TO BE IMPLEMENTED DURING CONSTRUCTION ON ALL PROPOSED ROAD CATCHBASINS AND CATCHBASINS AND CATCHBAIN MANHOLES AND OTHER SEDIMENT TRAPS. NO RECYCLED GEOSOCK MATERIAL SHALL BE PERMITTED FOR USE ON SITE.
- AT THE DISCRETION OF THE PROJECT MANAGER OR MUNICIPAL STAFF, ADDITIONAL SILT CONTROL DEVICES SHALL BE INSTALLED AT DESIGNATED LOCATIONS.
- FOR SILT FENCE BARRIER, USE OPSD 219-110. GEOTEXTILE FOR SILT FENCE AS PER OPSS 1860, TABLE 3.
- EXCEPT AS PROVIDED IN PARAGRAPHS 4.1., and 4.2. BELOW, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING. STABILIZATION MEASURES SHALL BE INITIATED WITHIN NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED.
- IF CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECEDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE.
- CONSTRUCTION ACTIVITIES SHALL BE STOPPED IMMEDIATELY ON OR BEFORE THE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY ON OR BEFORE THE WITHIN 21 DAYS AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.
- SEMENT THAT IS ACCUMULATED BY THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED IN A MANNER THAT AVOIDS ESCAPE OF THE SEDIMENT TO THE RECEIVING SIDE OF THE CONTROL MEASURE. THE SEDIMENT SHALL BE REMOVED TO THE LEVEL OF THE GRADE EXISTING AT THE TIME THE CONTROL MEASURE WAS CONSTRUCTED AND BE ACCORDING TO THE FOLLOWING:
- IF THE SEDIMENT ACCUMULATED BY THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURE ONCE IT REACHES THE LESSER OF THE FOLLOWING:
  - A. A DEPTH OF ONE-HALF THE EFFECTIVE HEIGHT OF THE CONTROL MEASURE.
  - B. A LENGTH OF 500 MM TO THE NEXT DOWNSTREAM CONTROL MEASURE.
- FOR ALL CONTROL MEASURES, ACCUMULATED SEDIMENT SHALL BE REMOVED AS NECESSARY TO PERFORM MAINTENANCE OR REPAIRS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED PRIOR TO THE REMOVAL OF THE CONTROL MEASURE.
- ACCUMULATED SEDIMENT IS TO BE REMOVED AND DISPOSED OF AS PER OPSS 180.
- THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MONITORED TO ENSURE THEY ARE IN EFFECTIVE WORKING ORDER. THE CONDITION OF THE CONTROL MEASURES SHALL BE MONITORED PRIOR TO ANY FORECAST STORM EVENT AND FOLLOWING A STORM EVENT.
- DUST CONTROL MEASURES SHOULD BE CONSIDERED PRIOR TO CLEANING AND GRADING. THE USE OF WATER, CALCIUM CHLORIDE FLAKES/SOLUTION OR MAGNESIUM CHLORIDE FLAKES/SOLUTION IN CONJUNCTION WITH WETTING AGENTS MAY BE USED TO LIMIT WIND EROSION OF SOILS WHICH MAY TRANSPORT SEDIMENTS OFFSITE, WHERE THEY MAY BE WASHED INTO THE RECEIVING WATER BY THE NEXT RAINSTORM.
- ALL "GREEN AREAS" TO BE TREATED WITH 150mm TOPSOIL AND SOD AS SOON AS FEASIBLE, AS PER OPSS 570.
- TPOPSOL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILLS TO BE PLACED IN PLACE AND COMPACTED TO SUIT STANDARD POROUS DENSITY.
- ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
- STOCKPILED MATERIAL IS TO BE STORED AWAY FROM POTENTIAL RECEIVERS (E.G. STORM CATCHBASINS, MANHOLES), AND BE SURROUNDED BY EROSION CONTROL MEASURES WHERE MATERIAL IS LEFT IN PLACE IN EXCESS OF 14 DAYS.
- IF REQUIRED, DEWATERING/SETTLING BASINS SHALL BE CONSTRUCTED AS PER OPSS 219-20 AND LOCATED ON PLANT GRADE UPSTREAM OF OTHER EXISTING MITIGATION MEASURES.
- PLACING SAND BAGS OR LOGS TO BLOCK OR REDUCE FLOW OF PERMANENT WATERCOURSES CROSSINGS SHALL NOT BE CONSTRUCTED OR UTILIZED, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. IF CLOSURE OF ANY PERMANENT WATER PASSAGE IS NECESSARY, THE CONTRACTOR SHALL RELEASE AND STRANDED FISHS TO THE OPEN PORTION OF THE WATERCOURSE WITHOUT HARM.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO OPSS 577.
- WHERE DEWATERING IS REQUIRED, THE DISCHARGED WATER SHALL BE CONTROLLED IN ACCORDANCE WITH OPSS 538.
- ALL SETTLING/FILTRATION BASINS SHALL BE EQUIPPED WITH TEXAFIX 270R GEOTEXTILE (OR APPROVED EQUIVALENT) AND SHALL BE CLEANED AND REPLACED AS REQUIRED.



# LEGEND

	BARRIER CURB CURB DEPRESSION		SILT FENCE (AS PER OPSD 219.130)
	MOUNTABLE CURB		STRAW BALE CHECK DAM (AS PER OPSD 219.180)
	EASEMENT		BUILDING ENTRANCES (MAIN, SIDE, OVERHEAD)
	RETAINING WALL		
	CONCRETE SIDEWALK		
	PAVING STONE		
	STORM MANHOLE		
	CATCHBASIN OR DITCH INLET		
	LANDSCAPE CATCHBASIN		
	SANITARY MANHOLE		
	PERFORATED PIPE IN SWALES		
	WATER VALVE/CHAMBER		
	FIRE HYDRANT		
	CENTRELINE OF SWALE		
	SLOPING AT 3:1 (UNLESS SPECIFIED)		
	PROPOSED ELEVATION		
	EXISTING ELEVATION		
	SWALE ELEVATION		
	TOP OF WALL ELEVATION		
	BOTTOM OF WALL ELEVATION		
	TOP OF CURB ELEVATION		
	BOTTOM OF CURB ELEVATION		
	EMERGENCY OVERLAND FLOW ROUTE		

**FOR REVIEW ONLY**  
*NOT FOR CONSTRUCTION*

[illegible]

1	ISSUED FOR SITE PLAN CONTROL	AUG. 16, 2019
No.	Revisions	Date

Check and verify all dimensions before proceeding with the work Do not scale drawings

SCALE 1 : 150



0 5 10 15 Metres

McINTOSH PERRY

115 Walgreen Road, RR3, Carp, ON K0A 1L0  
Tel: 613-836-2184 Fax: 613-836-3742  
[www.mcintoshperry.com](http://www.mcintoshperry.com)

Stamp:

A blue circular professional engineer stamp from the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. In the center, the date "2019/08/16" is handwritten in blue ink. Below the date, the name "R. P. KENNEDY" and the license number "100986734" are printed in blue. A blue ink signature is written across the bottom half of the stamp.

Client: **JOHN HOWARD SOCIETY c/o PBC DEVELOPMENT  
AND CONSTRUCTION MANAGEMENT GROUP INC.**  
485 BANK STREET, SUITE 205  
OBTAMA, ON L9B 1B2

Project: **NEW MIXED USE OFFICE &  
APARTMENT BUILDING**  
289 CARLING AVENUE  
OTTAWA, ON K1S 4K5

Drawing Title:

**SITE SERVICING AND SEDIMENT &  
EROSION CONTROL PLAN**

Scale:	1:150	Project Number:	CP-19-0007
Drawn By:	C.D.H.		
Checked By:	R.P.K.	Drawing Number:	C102
Designed By:	C.D.H.		