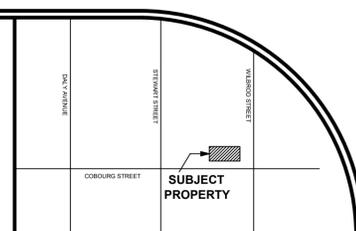


GRADING NOTES:

1. ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS AS DIRECTED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER.
2. EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF GRANULARS.
3. ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
4. THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
5. MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
6. MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
7. ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
8. ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1.1).
9. REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
10. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING AS-BUILT ELEVATIONS OF ALL DESIGN GRADES SHOWN ON THIS PLAN.

EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATEROURSE, DURING CONSTRUCTION ACTIVITIES THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, USING FILTER CLOTH UNDER THE GRATES OF CATCH BASINS AND MANHOLES AND INSTALLING SILT FENCES AND OTHER SEDIMENT TRAPS.
2. AT THE DISCRETION OF THE PROJECT MANAGER OR MUNICIPAL STAFF, ADDITIONAL SILT CONTROL DEVICES SHALL BE INSTALLED AT DESIGNATED LOCATIONS.
3. FOR SILT FENCE BARRIER USE OPSD 219.110 GEOTEXTILE FOR SILT FENCE SHALL BE ACCORDING TO OPSD 1860, TABLE 3.
4. EXCEPT AS PROVIDED IN PARAGRAPHS 4.(a), and (b) BELOW, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED.
 - (1) WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE.
 - (2) WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (EG. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.
5. SEDIMENT 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 DOWNSTREAM SIDE OF THE CONTROL MEASURE AND AVOIDS DAMAGE TO THE CONTROL MEASURE. 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:
 - 5.1. FOR LIGHT DUTY SEDIMENT BARRIERS ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE IT REACHES THE LESSER OF THE FOLLOWING:
 - 5.1.1. A DEPTH OF ONE HALF THE EFFECTIVE HEIGHT OF THE CONTROL MEASURE.
 - 5.1.2. A DEPTH OF 300 MM IMMEDIATELY UPSTREAM OF THE CONTROL MEASURE.
 - 5.2. FOR ALL CONTROL MEASURES, ACCUMULATED SEDIMENT SHALL BE REMOVED AS NECESSARY TO PERFORM MAINTENANCE REPAIRS.
 - 5.3. ACCUMULATED SEDIMENT SHALL BE REMOVED IMMEDIATELY PRIOR TO THE REMOVAL OF THE CONTROL MEASURE.
 - 5.4. ACCUMULATED SEDIMENT IS TO BE REMOVED AND DISPOSED OF AS PER OPSD 180.
6. ALL 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.
7. DUST CONTROL MEASURES SHOULD BE CONSIDERED PRIOR TO CLEARING AND GRADING. THE USE OF WATER, CALCIUM CHLORIDE FLAKES/SOLUTION OR MAGNESIUM CHLORIDE FLAKES/SOLUTION SHALL BE USED AS DUST SUPPRESSANTS AS PER OPSD 506. THIS IS TO LIMIT WIND EROSION OF SOILS WHICH MAY TRANSPORT SEDIMENTS OFFSITE, WHERE THEY MAY BE WASHED INTO THE RECEIVING WATER BY THE NEXT RAINSTORM.
8. ALL 'GREEN AREAS' TO BE TREATED WITH 150mm TOPSOIL AND SOD AS SOON AS FEASIBLE, AS PER OPSD 570.
9. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
10. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
11. 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 TO BE LEFT IN PLACE IN EXCESS OF 14 DAYS.
12. IF REQUIRED, DEWATERING/SETTLING CATCHBASINS SHALL BE CONSTRUCTED AS PER OPSD 219.240 AND LOCATED ON FLAT GRADE UPSTREAM OF OTHER EXISTING MITIGATION MEASURES. WATERCOURSES SHALL NOT BE DIVERTED, OR BLOCKED, AND TEMPORARY 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 ANY STRANDED FISH TO THE OPEN PORTION OF THE WATERCOURSE WITHOUT HARM.
13. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO OPSD 577.
14. WHERE DEWATERING IS REQUIRED, THE DISCHARGED WATER SHALL BE CONTROLLED IN ACCORDANCE WITH OPSD 518.
15. ALL SETTLING/FILTRATION BASINS SHALL BE EQUIPPED WITH TERRAFIX 270R GEOTEXTILE (OR APPROVED EQUIVALENT) AND SHALL BE CLEANED AND REPLACED AS REQUIRED.
16. FOR POTENTIAL SPILLS, THE CONTRACTOR SHALL HAVE ON SITE AT ALL TIMES AN EMERGENCY SPILL KIT THAT WILL INCLUDE AS A MINIMUM THE FOLLOWING:
 - 10 - 18 in" X 8 in" ABSORBENT PADS,
 - 5 LBS ZORBAL ABSORBING MATERIAL,
 - 1 PAIR GOGGLES, 1 PAIR PVC GLOVES



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 LOCATION PLAN
 NTS

LEGEND

PROPERTY LINE	---
LIMIT OF CONSTRUCTION	---
DIRECTION OF SURFACE WATER DRAINAGE	---
PROPOSED GRADE	x148.22
PROPOSED GRADE (TOP OF WALL)	x149.39TW
PROPOSED GRADE (BOTTOM OF WALL)	x148.29BW
PROPOSED GRADE (TOP OF CURB)	x148.53TC
PROPOSED GRADE (BOTTOM OF CURB)	x148.43BC
EXISTING GRADE	x149.40EX
PROPOSED DOWNSTREAM DEFENDER	---
PROPOSED STORMWATER MANHOLE	---
PROPOSED SANITARY MANHOLE	---
PROPOSED CATCH BASIN	---
EXISTING CATCH BASIN	---
EXISTING MANHOLE	---
EMERGENCY OVERLAND FLOW ROUTE	---
SILT FENCE	---
TEMPORARY SEDIMENT TRAP	---

LIST OF DRAWINGS

SG-01 (SITE GRADING, DRAINAGE AND EROSION CONTROL PLAN)
SS-01 (SITE SERVICING PLAN)

SITE PLAN INFORMATION

TEN 2 FOUR ARCHITECTURE INC.
 55 EGLINTON AVE. EAST - SUITE 606,
 TORONTO, ONTARIO, M4P 1G8,
 T.416.440.1024, F.414.484.1024

SURVEY INFORMATION

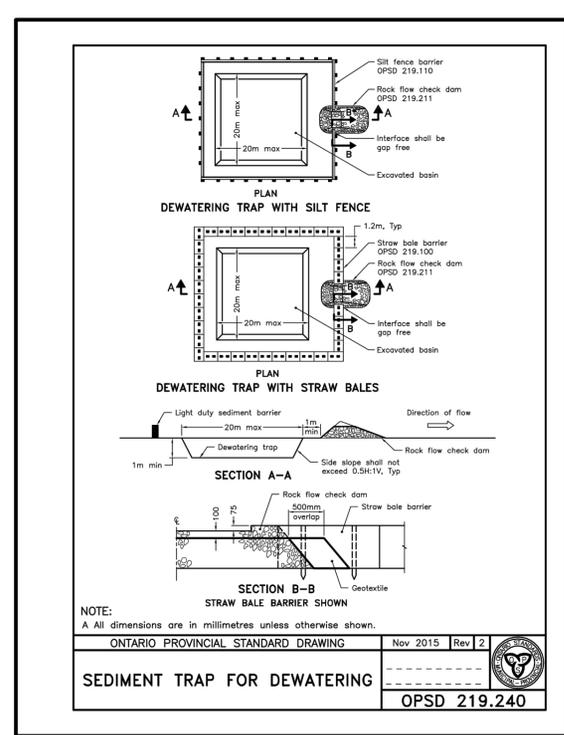
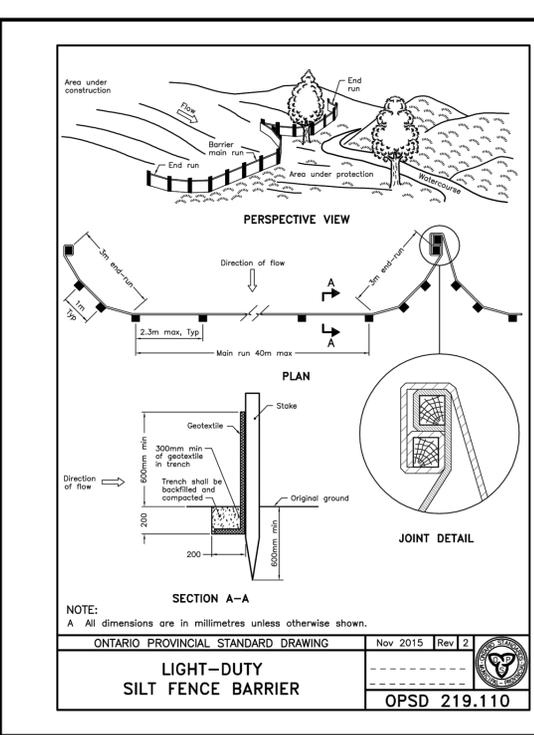
ASSOCIATION OF ONTARIO LAND SURVEYORS.
 1043 MCCOLL AVENUE,
 TORONTO, ONTARIO, M1W 3W6
 T.416.491.9020, F.416.491.2576

BENCHMARK

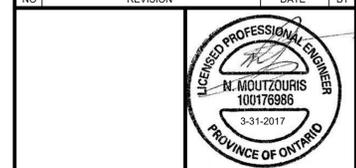
ELEVATIONS SHOWN HERE ARE GEODETIC AND WERE ESTABLISHED USING LEICA SMARTNET AND ARE TRANSFORMED TO ORTHOMETRIC HEIGHTS USING HT2.0.

SCHEDULE OF ONTARIO PROVINCIAL STANDARD DRAWINGS

No.	TITLE	DATE	REV.
219.110	LIGHT DUTY SILT FENCE BARRIER	NOV. 2015	2
219.240	DEWATERING TRAP	NOV. 2015	2
405.010	MAINTENANCE HOLE STEPS, HOLLOW	NOV. 2013	3
509.010	PAVEMENT REINSTATEMENT FOR UTILITY CUTS	NOV. 2013	2
701.010	PRECAST CONCRETE MAINTENANCE HOLE, 1200MM DIAMETER	NOV. 2014	5
701.021	MAINTENANCE HOLE BENCHING AND PIPE OPENING DETAILS	NOV. 2014	4
701.030	PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS, 1200MM DIAMETER TAPERED TOP AND FLAT CAP	NOV. 2014	4
701.031	PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS, 1200MM DIAMETER TAPERED TOP AND FLAT CAP	NOV. 2014	2
704.010	PRECAST CONCRETE ADJUSTMENT UNITS FOR MAINTENANCE HOLES, CATCH BASINS, AND VALVE CHAMBERS	NOV. 2014	3
1006.020	SEWER SERVICE CONNECTIONS FOR RIGID MAIN PIPE SEWER	NOV. 2016	3



NO	REVISION	DATE	BY
1.	ISSUED FOR SITE PLAN APPLICATION (SPA)	MAR 31, 2017	NM



CITY OF OTTAWA
 SITE GRADING, DRAINAGE & EROSION CONTROL PLAN
 OFFICE DEVELOPMENT
 231 COBOURG STREET
 OTTAWA ONTARIO

Lithos

788 O'Conner Drive, Toronto, Ontario M4B 2S6

DESIGNED BY: MS	DATE: JULY, 2015	CHECKED BY: NM
DRAWN BY: MS	PROJECT No:	APPROVED BY: NM
SCALE: 1:100		DRAWING No:
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