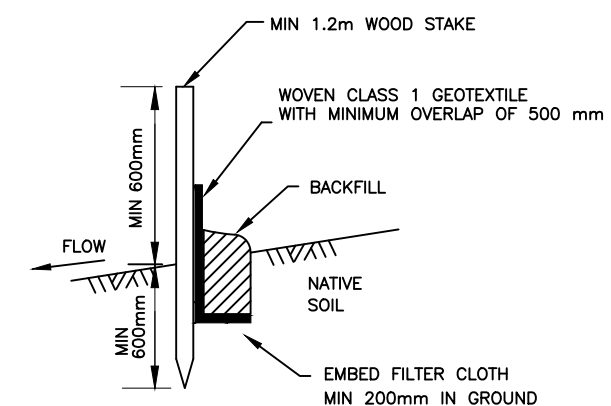
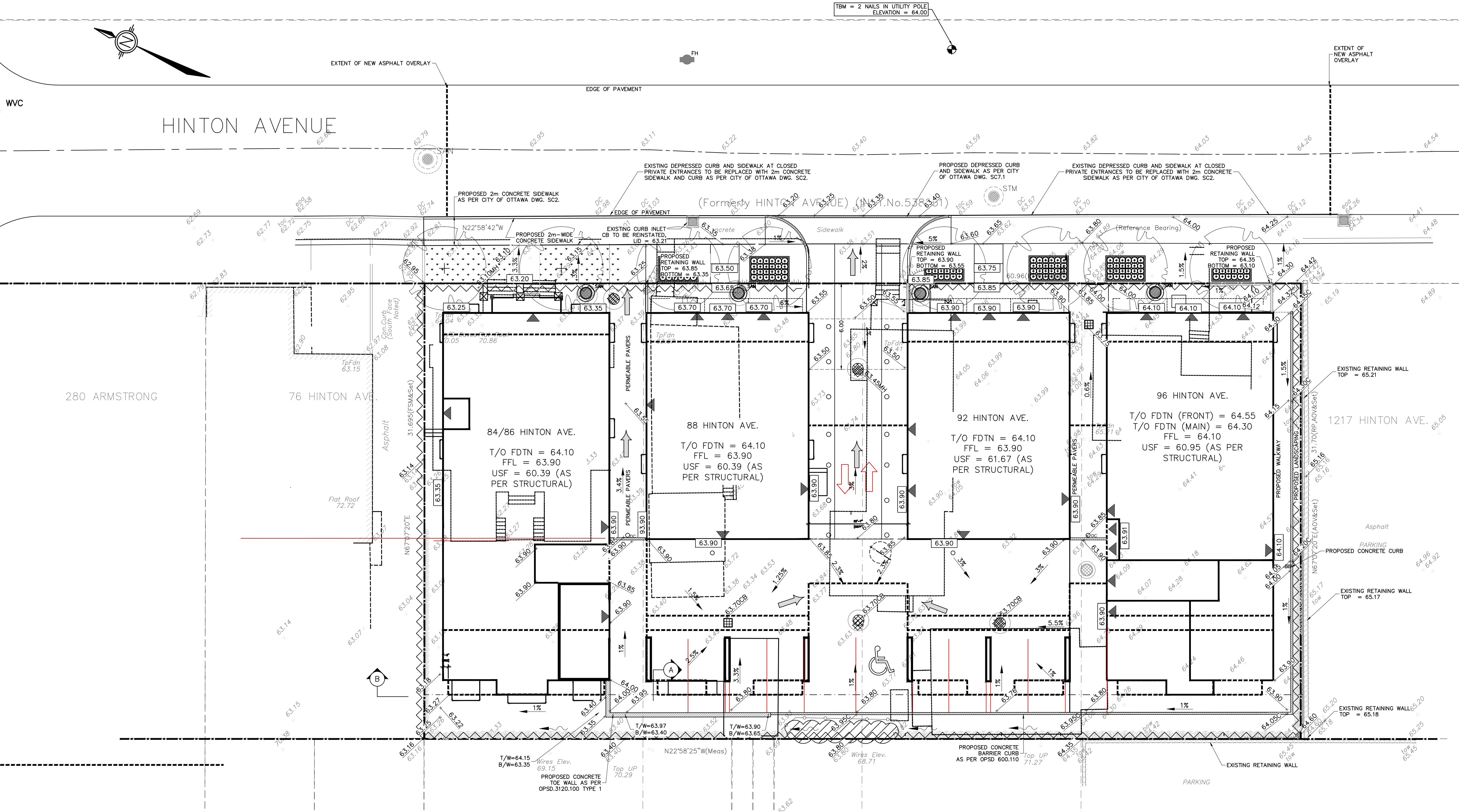
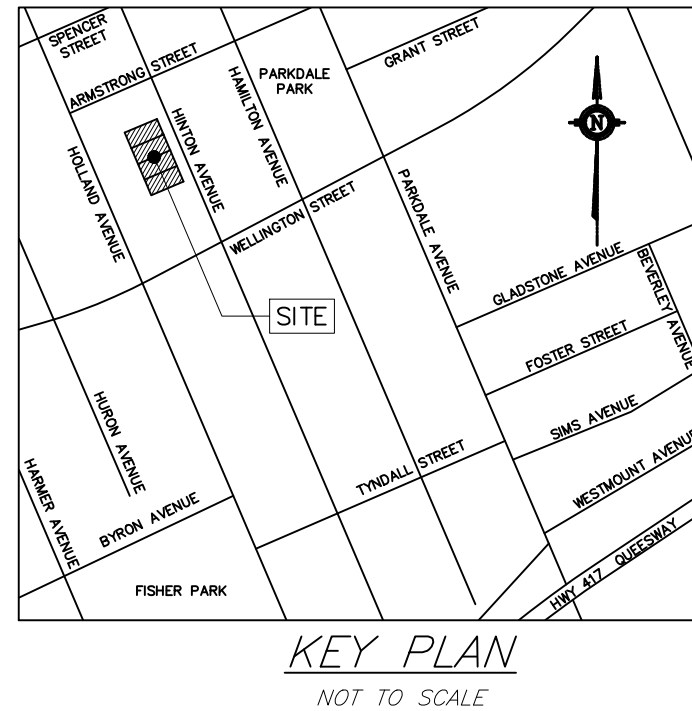
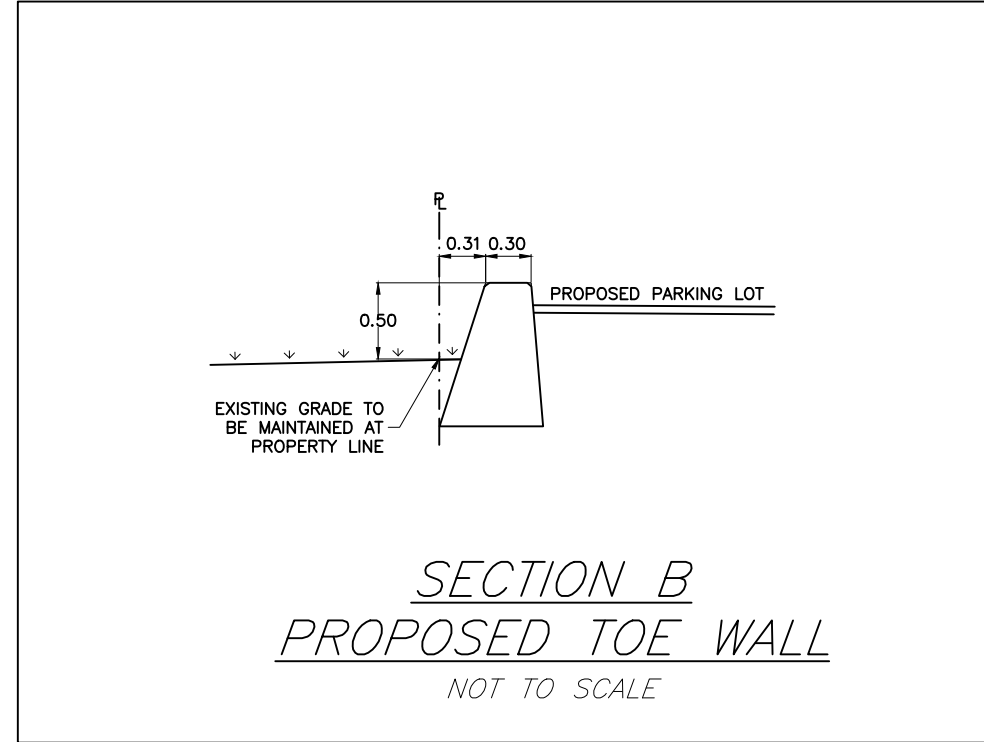
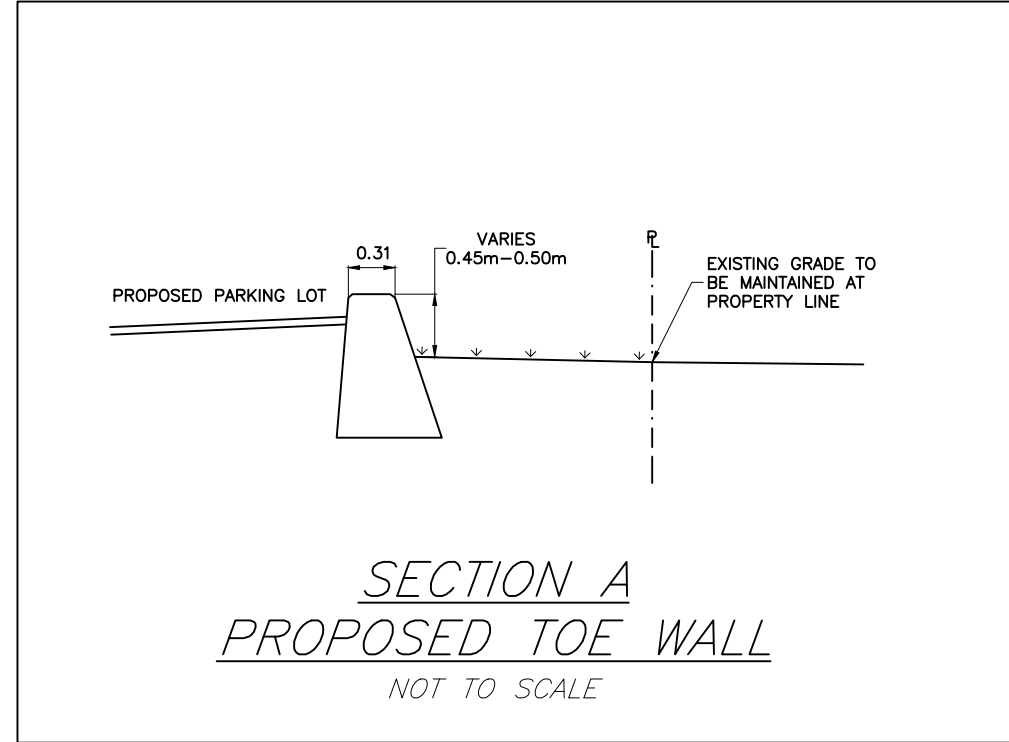


GENERAL NOTES FOR GRADING

1. THE REQUIRED PAVEMENT STRUCTURE FOR THE NEW PARKING AREAS SHALL BE AS FOLLOWS:
50mm HL-3 SURFACE COURSE
150mm BASE - OPSS GRANULAR A
300mm SUBBASE - OPSS GRANULAR B TYPE II
SUBGRADE - EITHER FILL, IN SITU SOIL OR OPSS GRANULAR B TYPE I OR II
MATERIAL PLACED OVER IN SITU SOIL OR FILL.
HEAVY DUTY TRUCK PARKING AND ACCESS LANES AS FOLLOWS:
40mm HL-3 SURFACE COURSE
50mm HL-8
150mm BASE - OPSS GRANULAR A
400mm SUBBASE - OPSS GRANULAR B TYPE II
2. IT SHALL BE THE BUILDER'S RESPONSIBILITY TO ENSURE THAT GRADING AROUND HYDRANTS, TRANSFORMERS, AND UTILITY PEDESTALS, ETC., MEET CURRENT CITY OF OTTAWA, HYDRO AND UTILITY COMPANY REQUIREMENTS.
3. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
4. CURBS TO BE BARRIER TYPE CURB OR MOUNTABLE CURB AND GUTTER, TO CITY OF OTTAWA STANDARDS, SC1.1 AND SC1.3 c/w DEPRESSIONS WHERE NOTED ON THE DRAWINGS.
5. CONTRACTOR TO ADJUST TO FINAL GRADE OF EXISTING CATCH BASINS, MANHOLES, FIRE HYDRANTS, VALVE CHAMBERS AND VALVE BOXES AS REQUIRED.
6. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVEMENT.
7. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING FOUNDATIONS OF ADJACENT BUILDINGS DURING EXCAVATION AND CONSTRUCTION PERIOD.
8. GRADING IN GRASSED AREAS WILL BE BETWEEN 2% TO 7% GRADES IN EXCESS OF 7% WILL REQUIRE A MAXIMUM 3:1 TERRACING.



NOTES:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO WOOD POSTS WITH WIRE TIES OR STAPLES.
2. POSTS TO BE SPACED AT 2.3 METRES CENTRE TO CENTRE.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY A MINIMUM OF 500mm.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. WOOD POSTS TO BE HARDWOOD TYPE (50mm x 50mm).
6. GEOTEXTILE TO BE EMBEDDED 200 mm INTO GROUND.
7. GEOTEXTILE TO CONFORM TO OPSS 577 STANDARDS.
8. SILT FENCE MUST BE INSTALLED BEFORE COMMENCEMENT OF CONSTRUCTION AND IN ACCORDANCE WITH DETAIL. SILT FENCE CAN BE REMOVED AFTER LANDSCAPING IS COMPLETE.
9. SEDIMENTS MUST BE CLEARED AWAY WHEN THEY REACH HALF THE HEIGHT OF THE FENCE.

**LIGHT DUTY SILT FENCE BARRIER
NOT TO SCALE**

EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION:

- DURING ALL CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION SHALL BE CONTROLLED BY THE FOLLOWING TECHNIQUES:
1. LIMITING THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
 2. REVEGETATION OF EXPOSED AREAS AS SOON AS POSSIBLE.
 3. MINIMIZATION OF AREA TO BE CLEARED AND DISRUPTION TO ADJACENT AREAS.
 4. INSTALLATION OF FILTER CLOTH BETWEEN FRAME AND COVER ON ALL PROPOSED CATCH BASINS AND CATCH BASIN MANHOLES.
 5. A SILT FENCE TO BE INSTALLED 0.3m INSIDE THE SITE PROPERTY LINE TO LOCATIONS SHOWN ON THIS DRAWING.
 6. A VISUAL INSPECTION SHALL BE COMPLETED DAILY ON SEDIMENT CONTROL BARRIERS AND ANY DAMAGE REPAIRED IMMEDIATELY. CARE WILL BE TAKEN TO PREVENT DAMAGE DURING CONSTRUCTION OPERATIONS.
 7. IN SOME CASES SOME BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE THE CONSTRUCTION OPERATIONS. THE AFFECTED BARRIERS WILL BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED.
 8. THE SEDIMENT CONTROL DEVICES WILL BE CLEANED OF ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OF AS PER THE REQUIREMENTS OF THE CONTRACT.
 9. DURING THE COURSE OF CONSTRUCTION IF THE ENGINEER BELIEVES THAT ADDITIONAL PREVENTION METHODS ARE REQUIRED TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR WILL INSTALL ADDITIONAL SILT FENCES OR OTHER METHODS AS REQUIRED TO THE SATISFACTION OF THE ENGINEER.
 10. CONSTRUCTION AND MAINTENANCE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROLS TO COMPLY WITH ONTARIO PROVINCIAL STANDARD SPECIFICATION (OPSS) OPSS 577, AND CITY OF OTTAWA SPECIFICATIONS.

Saide Sayah

SAIDE SAYAH
MANAGER, CENTRAL BRANCH
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

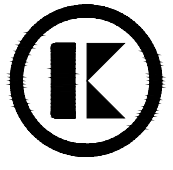
APPROVED
By Saide Sayah at 4:22 pm, Oct 01, 2020

**SITE GRADING AND EROSION CONTROL PLAN
SCALE = 1:150**

- NOTES:**
1. ALL DIMENSIONS ARE IN METRES, UNLESS OTHERWISE SPECIFIED; ALL ELEVATIONS ARE IN METRES AND ARE GEODETIC.
 2. THIS IS NOT A LEGAL DOCUMENT.
 3. BOUNDARY AND TOPOGRAPHIC INFORMATION WERE DERIVED FROM FARLEY, SMITH & DENIS SURVEYING LTD. JOB NO. 16-14.
 4. EXISTING SERVICES INFORMATION SHOWN ARE BASED ON BEST CURRENT INFORMATION. CONTRACTOR TO VERIFY EXACT LOCATION AND REPORT ANY DISCREPANCIES TO KOLLAARD ASSOCIATES.
 5. CLIENT IS RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS.
 6. CONTRACTOR TO VERIFY THAT APPROPRIATE PERMITS HAVE BEEN ACQUIRED PRIOR TO ANY CONSTRUCTION.
 7. ALL DIMENSIONS TO BE VERIFIED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.
 8. THIS DRAWING IS NOT FOR CONSTRUCTION UNTIL ALL APPROVALS HAVE BEEN GRANTED.

9. INSPECTION OF ROUGH GRADE BY KOLLAARD ASSOCIATES INC. AND CITY OF OTTAWA MUST BE CONDUCTED PRIOR TO PLACEMENT OF TOPSOIL OR SOD.
10. HYDRO SERVICE TO BE INSTALLED ACCORDING TO THE SPECIFICATIONS OF SERVICE PROVIDER AND THE MECHANICAL ENGINEER.
11. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS. SEWER AND WATERMAIN MATERIAL TYPES, DISINFECTION, PROVIDE MINIMUM 2.4 METRES OF COVER FOR WATER SERVICES. CATHODIC PROTECTION, CITY OF OTTAWA INSULATION SPECIFICATIONS FOR WATERMAIN, PIPE BEDDING, REINSTATEMENT OF DISTURBED AREAS AND LEAKAGE TESTING.
12. ANY CHANGES MADE TO THIS PLAN MUST BE VERIFIED AND APPROVED BY KOLLAARD ASSOCIATES, INC.
13. THIS DRAWING IS PART OF KOLLAARD ASSOCIATES DESIGN REPORT # 170453.

No.	REVISION	DATE	BY
6	CORRECTED FOR SITE PLAN / LANDSCAPING	MAR.26.2020	SD
5	CORRECTED FOR SITE PLAN	MAR.24.2020	SD
4	TO MATCH REVISED SITE PLAN	MAR.12.2020	SD
3	REVISED GRADING REAR OF 84/86 HINTON	SEPT.20.2019	SD
2	REVISED TO USE EXISTING SAN. SERVICE LOCATIONS	JUNE.05.2019	SD
1	REVISED PER REVIEW COMMENTS	SEPT. 11/2017	ML
0	ISSUED FOR SITE PLAN CONTROL	JUNE 15/2017	ML



**Kollaard Associates
Engineers**

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210 PRESCOTT STREET
KEMPVILLE, ONTARIO
K0A 1G0
FACSIMILE (613) 258-0475

(613) 860-0923

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NOVATECH
ENGINEERING CONSULTANTS LTD.
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Ottawa, Ontario K2M 1P6
Tel.: (613) 254-5948

Landscape Architects:

JAMES B. LENOX & ASSOCIATES INC.
LANDSCAPE ARCHITECTS
Suite 200A Hampton Park Plaza, 1419 Carling Ave.
Ottawa, Ontario K1Z 7J6
Tel.: (613) 722-5168

Architect:

Dextor A. Edwards
460 West Hunt Club Road, Suite 203
Ottawa, Ontario K2E 0B8
Tel.: (613) 728-4159

Surveyors:

FARLEY, SMITH AND DENIS SURVEYING LTD
10150 Colonnade Rd, Ottawa, Ontario
Tel.: (613) 727-8226

DESIGN

NR

CHECKED

SD

DRAWN

NR/ML

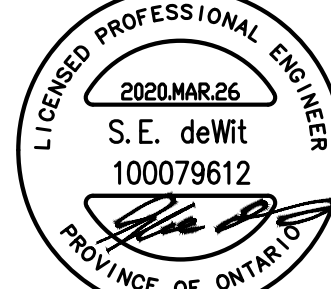
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SD

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CLIENT NAME

TAKYAN CONSULTING & DEV.
100 ARGYLE AVE. SUITE 300
OTTAWA, ONTARIO

PROJECT NAME

84-96 HINTON AVENUE
RESIDENTIAL DEVELOPMENT

PROJECT LOCATION

84/86, 88, 92, 96 HINTON AVENUE
CITY OF OTTAWA, ON

DRAWING

SITE GRADING & EROSION CONTROL PLAN

PROJECT No.

170453

DRAWING No.

170453 - GR1

DATE

AUG. 08, 2014

SCALE

AS NOTED