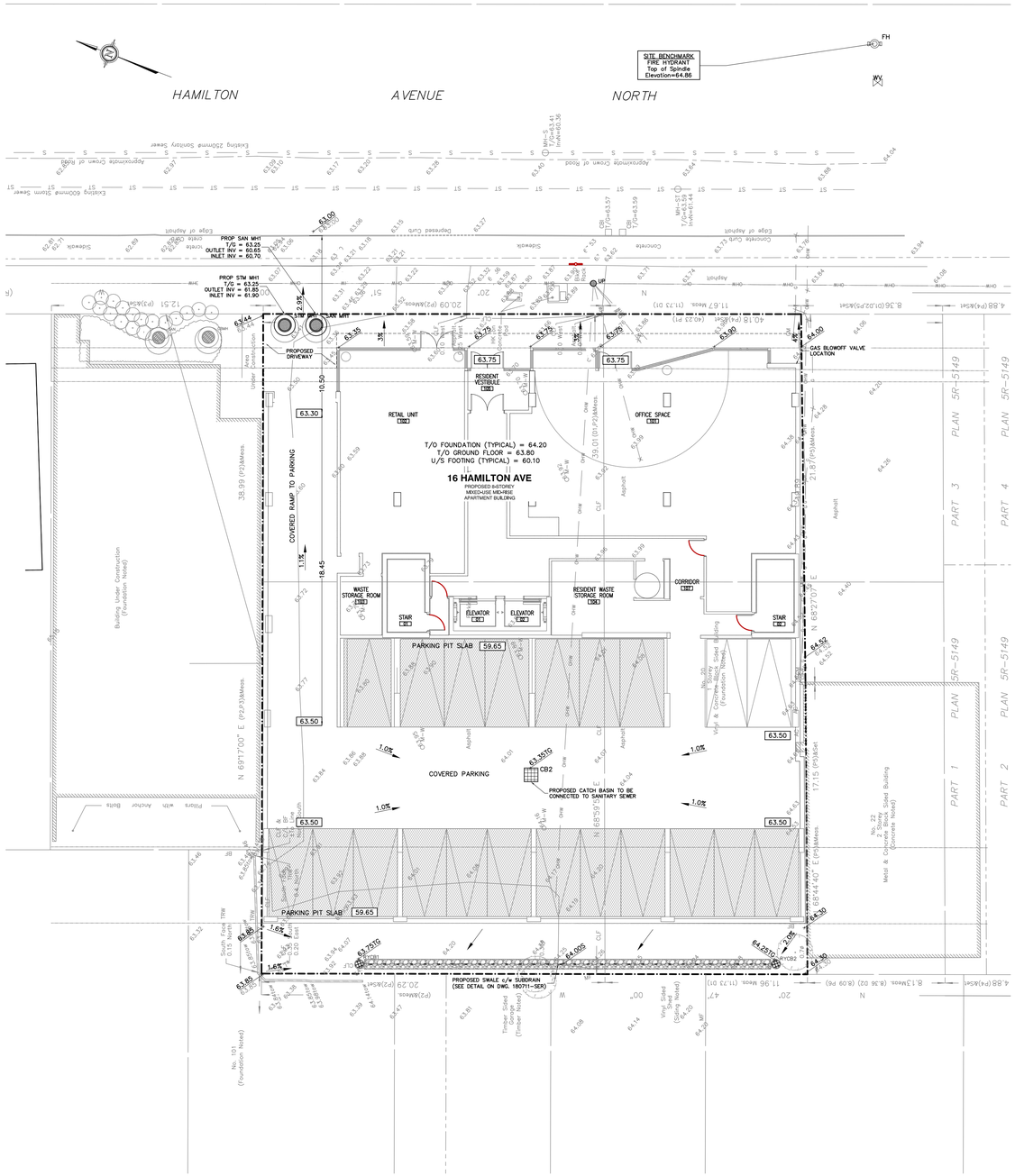
LEGEND

- EXISTING ELEVATION
- PROPOSED/EXISTING ELEVATIONS
- PROPOSED ELEVATION
- DRAINAGE SLOPE
- EXISTING DRAINAGE
- WATERMAIN
- STORM SEWER
- SANITARY SEWER
- CENTRELINE OF ROAD
- EXISTING FENCE
- TOP OF SLOPE
- PROPERTY LINE
- SILT FENCE
- OVERHEAD WIRE
- TEMPORARY BENCHMARK
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- PROPOSED FIRE DEPARTMENT CONNECTION
- WATER METER
- REMOTE WATER METER
- PROPOSED WATER VALVE
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING CATCH BASIN
- PROPOSED STORM MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED SCUPPER LOCATION
- PROPOSED WEIR CONTROL ROOF DRAIN



SITE GRADING PLAN

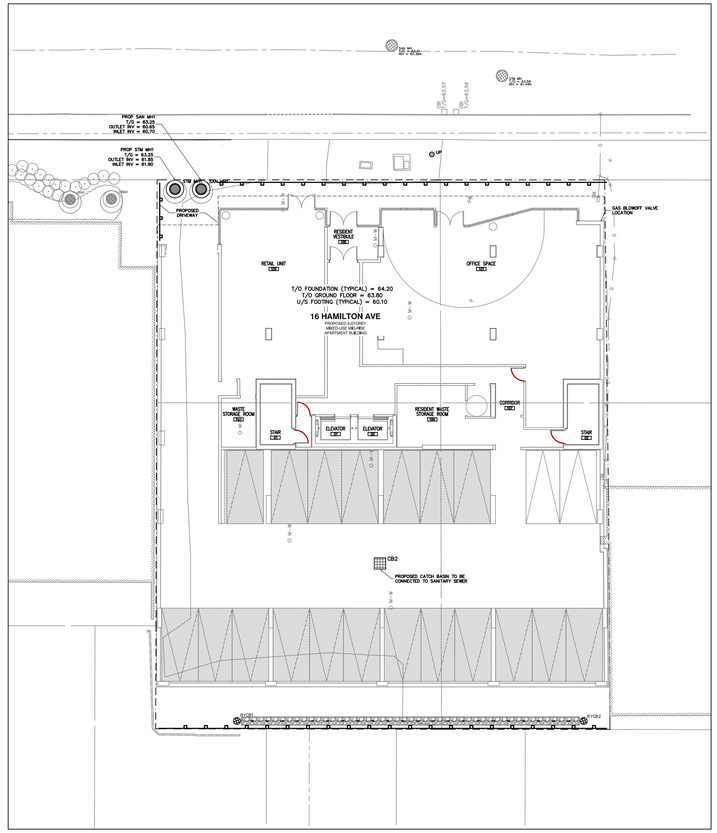
SCALE = 1:150

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 WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
2. THE OWNER (AND/OR CONTRACTOR) AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN AT LEAST EQUAL TO THE STATED MINIMUM REQUIREMENTS AND TO THE SATISFACTION OF THE CITY OF OTTAWA, APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL.
3. THE SEDIMENT AND EROSION CONTROL PLAN IS A LIVING DOCUMENT WHICH MAY BE AMENDED BY ONSITE REQUIREMENTS AT THE APPROVAL OF THE MUNICIPALITY AND THE CONSERVATION AUTHORITY.

MINIMUM EROSION AND SEDIMENT CONTROL PLAN REQUIREMENTS:

- TIME THE DEMOLITION AND EXCAVATION ACTIVITIES SO THAT THEY OCCUR NO SOONER THAN IS NECESSARY FOR SUBSEQUENT CONSTRUCTION ACTIVITIES.
- PRIOR TO CONSTRUCTION, SILT FENCE BARRIERS (OPSD 219.110) WILL BE PLACED ALONG THE PROPERTY LINES AS SHOWN.
- USE SILT FENCES AROUND ANY STOCKPILES OF SOIL.
- THE SILT FENCE SHOULD BE REMOVED ONLY WHEN THE SITE IS STABILIZED.
- EVERY EFFORT WILL BE MADE TO ENSURE THAT ALL DISTURBED AREAS ARE TOPSOILED AND SEEDED AS SOON AS REASONABLY POSSIBLE.
- INSTALL FILTER SOCKS ACROSS ALL EXISTING AND PROPOSED CATCH BASINS AND CATCH BASIN MANHOLES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS TO ENSURE THAT THE SITE ACCESS POINTS AND ADJACENT STREETS TO THE ACCESS POINTS ARE MAINTAINED AND KEPT CLEAN OF CONSTRUCTION MATERIALS SUCH AS, BUT NOT LIMITED TO MUD, DIRT, CLAY AND GRANULARS ON A DAILY BASIS OR AS NECESSARY, TO THE SATISFACTION OF THE CITY OF OTTAWA.

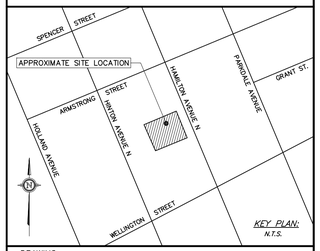


EROSION AND SEDIMENT CONTROL PLAN

SCALE = 1:200

DRAWING NUMBER:

180711-GEC



KEY PLAN:
N.T.S.

DRAWING:

GRADING AND EROSION CONTROL PLAN

GENERAL NOTES:

1. All dimensions are in metres; all elevations are in metres and are geodetic.
2. TBM=Top of spindle of existing fire hydrant. Elevation=64.86.
3. This is not a legal survey. Boundary and topographic information was derived from FARLEY, SMITH & DENIS SURVEYING LTD. File No. J1205.
4. Client is responsible for acquiring all necessary permits. This drawing is not for construction until a building permit has been granted.
5. Contractor is responsible for location and protection of utilities.
6. All dimensions to be verified on site by contractor prior to construction.
7. Existing watermain and sewer information shown is based on best available information. Contractor to verify exact location of mains and report any discrepancies to Kollaard Associates.
8. Any changes made to this plan must be verified and approved by Kollaard Associates Inc.
9. The proposed grades have been set and verified for site grading control only. The grade raise at the building location should be verified with regard to subsurface conditions by qualified geotechnical personnel after completion of the excavation.
10. The underside of footing elevation has been set based on the information available and may not have accounted for actual ground water conditions at the exact building location and should be verified by qualified geotechnical personnel upon completion of the excavation.
11. A geotechnical engineer should be retained to provide recommendations with respect to the sub-grade conditions prior to footing installation.
12. The owner agrees to prepare and implement an erosion and sediment control plan to the satisfaction of the City of Ottawa, appropriate to the site conditions, prior to undertaking any site alterations (filling, grading, removal of vegetation, etc.) and during all phases of site preparation and construction in accordance with the current Best Management Practices for Erosion and Sediment Control such as, and not limited to installing filter cloths across manhole/catchbasin lids to prevent sediments from entering structures and install and maintain a light duty silt fence barrier as required.
13. 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.
14. This drawing is part of Kollaard Associates File No. 180711.
15. Shop drawings for items such as (but not limited to) storm catch basins and underground storm water storage chambers to be reviewed and approved by Kollaard Associates Inc. prior to fabrication.

REV	BY	DATE	DESCRIPTION
3	ML/SD	2019/05/21	REVISIONS TO MATCH SITE PLAN
2	ML/SD	2019/02/28	REVISIONS PER CITY REVIEW COMMENTS
1	ML	2018/10/24	ISSUED FOR SPA SUBMISSION
0	ML	2018/10/23	ISSUED FOR CLIENT REVIEW

Kollaard Associates
Engineers
P.O. BOX 189, 210 PRESCOTT ST. (613) 860-0923
KEMPTVILLE, ONTARIO info@kollaard.ca
K0G 1J0 FAX (613) 258-0475
http://www.kollaard.ca

CONSULTANTS:

CLIENT:

INDEPENDENT DEVELOPMENT GROUP
88 SPADINA AVENUE
OTTAWA, ON K1Y 2C1

PROJECT:

PROPOSED MIXED-USE BUILDING

LOCATION:

16-20 HAMILTON AVENUE N
OTTAWA ON K1Y 1B6

LICENSED PROFESSIONAL ENGINEER
MAY 21, 2019
S.E. deWit
100079612
PROVINCE OF ONTARIO

DESIGNED BY:	CHECKED BY:
ML/SD	SD
DRAWN BY:	APPROVED BY:
ML	SD

DATE: OCTOBER 01, 2018

SCALE: AS SHOWN

PROJECT NUMBER: 180711

D01-01-18-0012 & D02-02-18-0108

#17833