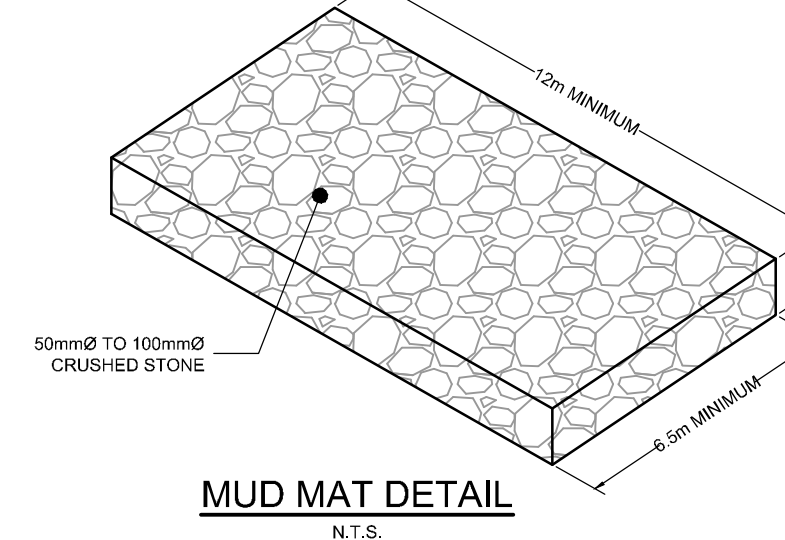


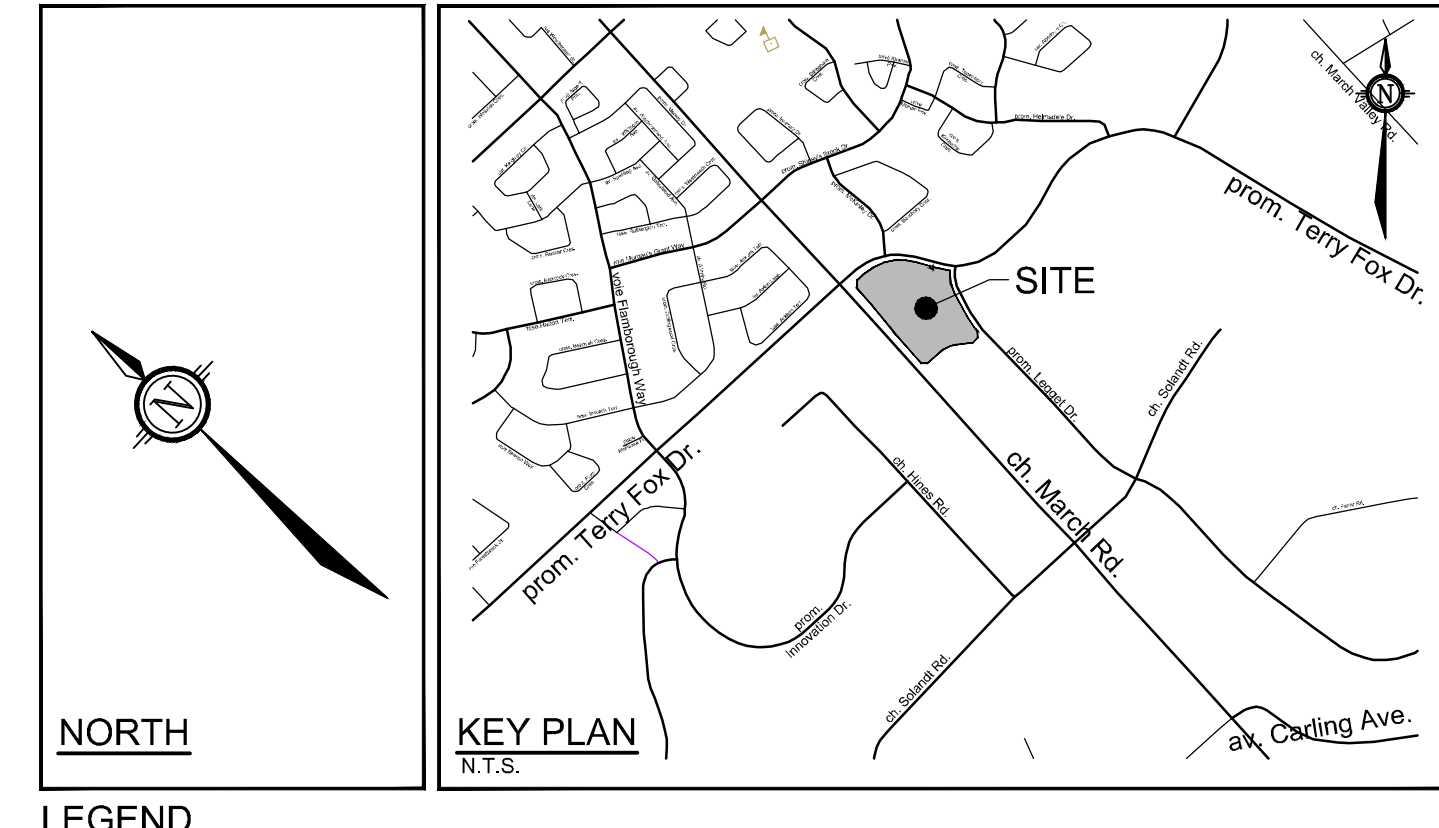
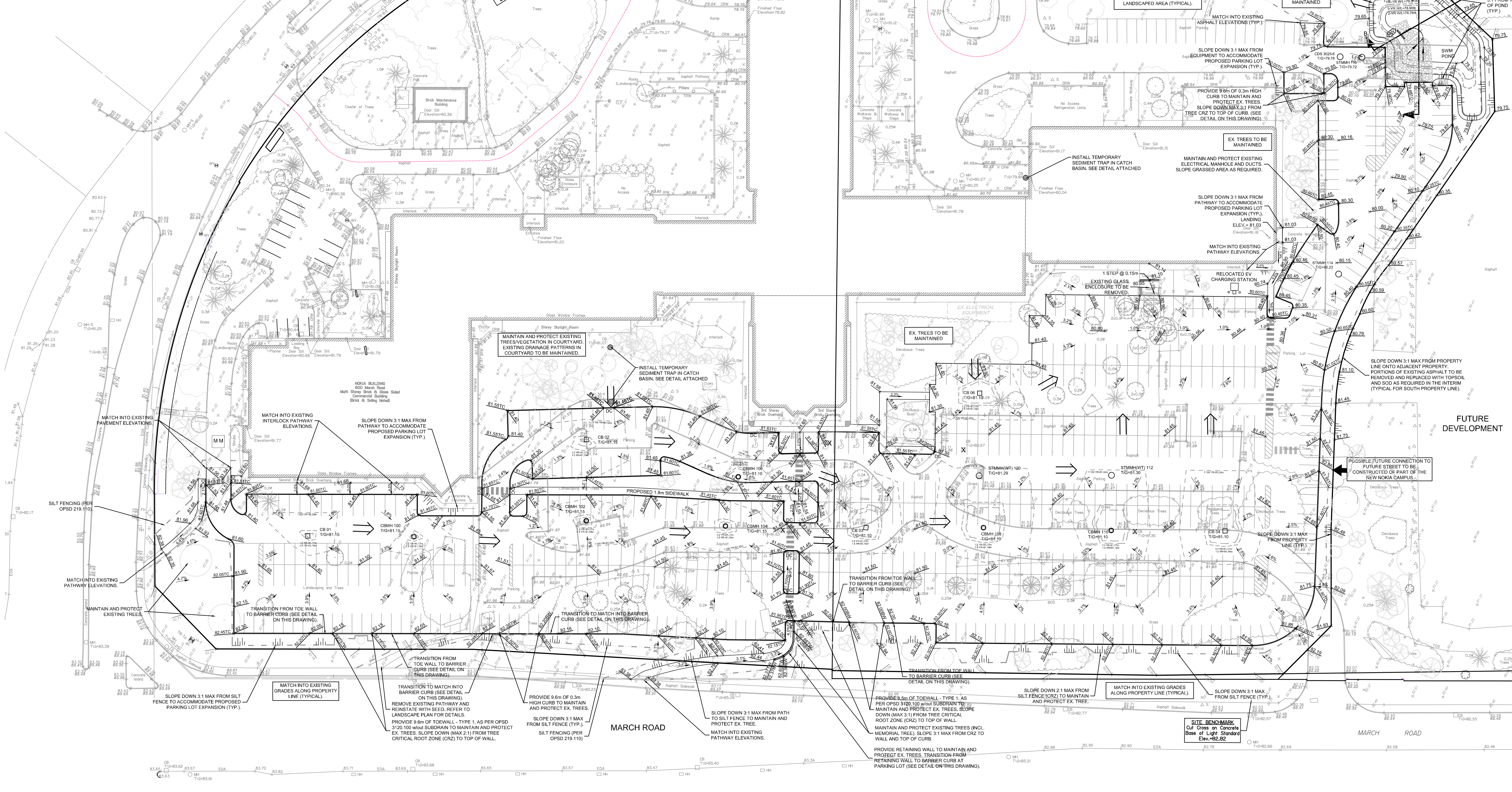
ESC Measure	Symbol	Description	ESR/ESC Responsibility	ESR/ESC Contractor	ESR/ESC Consultant	ESR/ESC Inspector	ESR/ESC Approval	ESR/ESC Acceptance	ESR/ESC Completion
ESC 1.1	1.1	ESR/ESC 1.1.1	ESR/ESC 1.1.1	ESR/ESC 1.1.1	ESR/ESC 1.1.1	ESR/ESC 1.1.1	ESR/ESC 1.1.1	ESR/ESC 1.1.1	ESR/ESC 1.1.1
ESC 1.2	1.2	ESR/ESC 1.2.1	ESR/ESC 1.2.1	ESR/ESC 1.2.1	ESR/ESC 1.2.1	ESR/ESC 1.2.1	ESR/ESC 1.2.1	ESR/ESC 1.2.1	ESR/ESC 1.2.1
ESC 1.3	1.3	ESR/ESC 1.3.1	ESR/ESC 1.3.1	ESR/ESC 1.3.1	ESR/ESC 1.3.1	ESR/ESC 1.3.1	ESR/ESC 1.3.1	ESR/ESC 1.3.1	ESR/ESC 1.3.1
ESC 1.4	1.4	ESR/ESC 1.4.1	ESR/ESC 1.4.1	ESR/ESC 1.4.1	ESR/ESC 1.4.1	ESR/ESC 1.4.1	ESR/ESC 1.4.1	ESR/ESC 1.4.1	ESR/ESC 1.4.1
ESC 1.5	1.5	ESR/ESC 1.5.1	ESR/ESC 1.5.1	ESR/ESC 1.5.1	ESR/ESC 1.5.1	ESR/ESC 1.5.1	ESR/ESC 1.5.1	ESR/ESC 1.5.1	ESR/ESC 1.5.1
ESC 1.6	1.6	ESR/ESC 1.6.1	ESR/ESC 1.6.1	ESR/ESC 1.6.1	ESR/ESC 1.6.1	ESR/ESC 1.6.1	ESR/ESC 1.6.1	ESR/ESC 1.6.1	ESR/ESC 1.6.1
ESC 1.7	1.7	ESR/ESC 1.7.1	ESR/ESC 1.7.1	ESR/ESC 1.7.1	ESR/ESC 1.7.1	ESR/ESC 1.7.1	ESR/ESC 1.7.1	ESR/ESC 1.7.1	ESR/ESC 1.7.1
ESC 1.8	1.8	ESR/ESC 1.8.1	ESR/ESC 1.8.1	ESR/ESC 1.8.1	ESR/ESC 1.8.1	ESR/ESC 1.8.1	ESR/ESC 1.8.1	ESR/ESC 1.8.1	ESR/ESC 1.8.1
ESC 1.9	1.9	ESR/ESC 1.9.1	ESR/ESC 1.9.1	ESR/ESC 1.9.1	ESR/ESC 1.9.1	ESR/ESC 1.9.1	ESR/ESC 1.9.1	ESR/ESC 1.9.1	ESR/ESC 1.9.1
ESC 1.10	1.10	ESR/ESC 1.10.1	ESR/ESC 1.10.1	ESR/ESC 1.10.1	ESR/ESC 1.10.1	ESR/ESC 1.10.1	ESR/ESC 1.10.1	ESR/ESC 1.10.1	ESR/ESC 1.10.1

POND CROSS-SECTION A-A  
SCALE: 1:40 (H) / 1:40 (V)

POND CROSS-SECTION B-B  
SCALE: 1:40 (H) / 1:40 (V)



MUD MAT DETAIL  
SCALE: N.T.S.



**LEGEND**

PROPOSED ELEVATION	PROPOSED BLDG ENTRANCE
EXISTING ELEVATION	PROPOSED SILT FENCING (OPSD 219.110)
GRADE AND DIRECTION	PROPOSED MUD MAT / CONSTRUCTION ENTRANCE
TERRACING (MAXIMUM 3:1 SLOPE)	APPROXIMATE PONDING LIMITS
EMERGENCY OVERLAND FLOW ROUTE	PROPOSED CATCHBASIN MANHOLE
CBM3	PROPOSED CATCHBASIN
STIMM1	PROPOSED BARRIER CURB (PER SC1.1)
STIMM1/11	PROPOSED DEPRESSED CURB (PER SC1.1)
CB	REMOVALS
X	EXISTING TREE TO REMAIN
PROPOSED TOE WALL (PER OPSD 3120.100)	EXISTING TREE - VEGETATION
PROPOSED RETAINING WALL	EXISTING UTILITY POLE (CW, GUY WIRE)
	EXISTING FENCE
	EXISTING LIGHT STRUTTING

**GENERAL NOTES:**

- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
- OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
- BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
- RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- ALL ELEVATIONS ARE GEODETIC.
- REFER TO THE GEOTECHNICAL INVESTIGATION AND HYDROGEOLOGICAL ASSESSMENT - 600 MARCH ROAD - (REPORT NO. 10050791-1) DATED ON JUNE 16, 2023, FOR SUBSURFACE CONDITIONS, PROPOSED CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
- REFER TO ARCHITECTS AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND DIMENSIONS.
- REFER TO STORMWATER MANAGEMENT REPORT (R-2023-143) PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.
- SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT IN THE POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
- PROVIDE LINE/PARKING PAINTING.

**GRADING NOTES:**

- 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.
- 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.
- ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS PROST COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- 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 90% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
- MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
- MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
- ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
- ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1.1). MOUNTABLE CURBS ARE TO BE PER CITY OF OTTAWA STANDARD (SC1.3).
- REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
- 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:**

- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATER COURSE, 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.
- ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA. THEY ARE TO BE APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF EXISTING MATERIAL, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION. THESE PRACTICES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SHOWN ON THIS PLAN.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION IN ACCORDANCE WITH THE "GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES" (GOVERNMENT OF ONTARIO, MAY 1987). THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEETING ALL REGULATORY AGENCY REQUIREMENTS.
- TO PREVENT SURFACE EROSION FROM ENTERING ANY STORM SEWER INSTALLATION DURING CONSTRUCTION, FILTER CLOTH WILL BE PLACED UNDER GRATES OF NEARBY CATCHBASINS AND STRUCTURES. A LIGHT DUTY SILT FENCE BARRIER WILL ALSO BE INSTALLED AROUND THE CONSTRUCTION AREA (WHERE APPLICABLE). THESE CONTROL MEASURES WILL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
- TO LIMIT EROSION MINIMIZE THE AMOUNT OF EXPOSED SOILS AT ANY GIVEN TIME. REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE AND PROTECT EXPOSED SLOPES WITH NATURAL OR SYNTHETIC MULCHES.
- FOR MATERIAL STOCKPILING MINIMIZE THE AMOUNT OF EXPOSED MATERIALS AT ANY GIVEN TIME. APPLY TEMPORARY SEEDING, TAPPS, CONSTRUCTION AND/OR SURFACE ROUGHENING AS REQUIRED TO STABILIZE STOCKPILED MATERIALS THAT WILL NOT BE USED WITHIN 14 DAYS.
- THE SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED WHEN, IN THE OPINION OF THE ENGINEER, THE MEASURES ARE NO LONGER REQUIRED. NO CONTROL MEASURES MAY BE PERMANENTLY REMOVED WITHOUT PRIOR AUTHORIZATION FROM THE ENGINEER.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO ANY STORM SEWER, DRAINAGE BASIN, OR WATER COURSE, INCLUDING ANY REMEDIATION TO BE UNDERTAKEN. MEASURES FOR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
- THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
- ROADWAYS ARE TO BE SWEEP AS REQUIRED OR AS DIRECTED BY THE ENGINEER AND/OR THE MUNICIPALITY.
- THE CONTRACTOR SHALL ENSURE PROPER DUST CONTROL IS PROVIDED WITH THE APPLICATION OF WATER AND IF REQUIRED, CALCIUM CHLORIDE DURING DRY PERIODS. MONITOR DUST LEVELS DURING SITE PREPARATION, CONSTRUCTION, AND CONSTRUCTION ACTIVITIES, AND WHEN DUST LEVELS BECOME VISUALLY APPARENT SPRAY WATER TO MINIMIZE THE RELEASE OF DUST FROM GRAVEL, PAVED AREAS AND EXPOSED SOILS. USE CHEMICAL DUST SUPPRESSANTS ONLY WHERE NECESSARY ON PROBLEM AREAS.

**BENCHMARK NOTES:**

- ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD25 GEODETIC DATUM.
- IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.
- BENCHMARK WAS PROVIDED ON THE TOPOGRAPHIC PLAN OF SURVEY OF BLOCK 8 AND PART OF BLOCK 1 REGISTERED PLAN 4M462 AND PART OF LOTS 8 AND 5 CONCESSION 4, GEOTECHNICAL TOWNSHIP OF MARCH, CITY OF OTTAWA, SURVEYED BY ANIS, OSULLIVAN AND VOLSEK LTD.

**PAVEMENT STRUCTURES:**

LIGHT DUTY (CAR PARKING PAVEMENT)
50mm H.P.3 SUPERPAVE 12.5
100mm GRANULAR "A"
250mm GRANULAR "B" TYPE II
HEAVY DUTY (ACCESS ROADS)
40mm H.P.3 SUPERPAVE 12.5
50mm H.P.3 SUPERPAVE 10.0
150mm GRANULAR "A"
300mm GRANULAR "B" TYPE II

**NOTE:**  
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES 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 WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

**OWNER INFORMATION**  
NOKIA CO COLLIERS  
181 BAY STREET, SUITE 1400  
TORONTO, ONTARIO, M5J 2V1  
ERIK CUNNINGTON  
PHONE: (416) 920-0155  
EMAIL: erik.cunnington@colliers.com

**SURVEYOR**  
ANNIS, OSULLIVAN, VOLLEBECK LTD.  
14 CONCOURSE GATE, SUITE 500  
OTTAWA, ONTARIO, K2E 7S6  
PHONE: (613) 727-0850

**CIVIL ENGINEER/LANDSCAPE ARCHITECT**  
NOVATECH ENGINEERS, PLANNERS & LANDSCAPE ARCHITECTS  
240 MICHAEL, COWPLAND DRIVE, SUITE 200  
OTTAWA, ONTARIO, K2M 1P6  
PHONE: (613) 254-9643

No.	REVISION	DATE	BY
3.	REVISED AS PER CITY COMMENTS	FEB 14/24	FST
2.	ISSUED FOR SPC APPROVAL	NOV 7/23	FST
1.	PRELIMINARY PLANS ISSUED TO CITY	OCT 20/23	FST

SCALE	DATE	BY
1:400		

**FOR REVIEW ONLY**

DESIGN	ZA
CHECKED	FST
DRAWN	ZA
CHECKED	FST
APPROVED	FST

**NOVATECH**  
Engineers, Planners & Landscape Architects  
Suite 200, 140 Michael Cowpland Drive  
Ottawa, Ontario, Canada K2M 1P6  
Telephone: (613) 254-9643  
Fax: (613) 254-9887  
Website: www.novatech-eng.com

**LOCATION**  
CITY OF OTTAWA  
600 MARCH ROAD - NOKIA PARKING LOT EXPANSION

**DRAWING NAME**  
GRADING PLAN AND EROSION & SEDIMENT CONTROL PLAN

**PROJECT NO.**  
121334-GR

**REV.**  
REV #3

**DATE**  
12/13/23

**SCALE**  
1:400