

**GENERAL NOTES:**

- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- DIMENSIONS AND LAYOUT INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS
- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- THE ORIGINAL TOPOGRAPHY AND GROUND ELEVATIONS, SERVICING AND SURVEY INFORMATION SHOWN ON THIS PLAN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF ALL INFORMATION OBTAINED FROM THIS PLAN.
- OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
- BEFORE COMMENCING CONSTRUCTION OBTAIN COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
- SIDE SLOPES FOR ALL EXCAVATIONS ARE TO BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT (ONTARIO REGULATION 213/91).
- PRIOR TO ANY ROCK EXCAVATION, CONTRACTOR IS REQUIRED TO COMPLETE A PRE-CONSTRUCTION SURVEY.

- 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.
- 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.
- SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
- MAXIMUM EMBANKMENTS TO BE NO GREATER THAN 3 : 1.
- ALL CONCRETE CURB TO COMPLY WITH CITY OF OTTAWA STANDARD BARRIER CURB SC 1.1, 150mm HIGH.
- CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND TIG ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, TWM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.

**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 FROST 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 SUB-BASE SHOULD BE COMPACTED TO AT LEAST 95% 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).
- 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:**

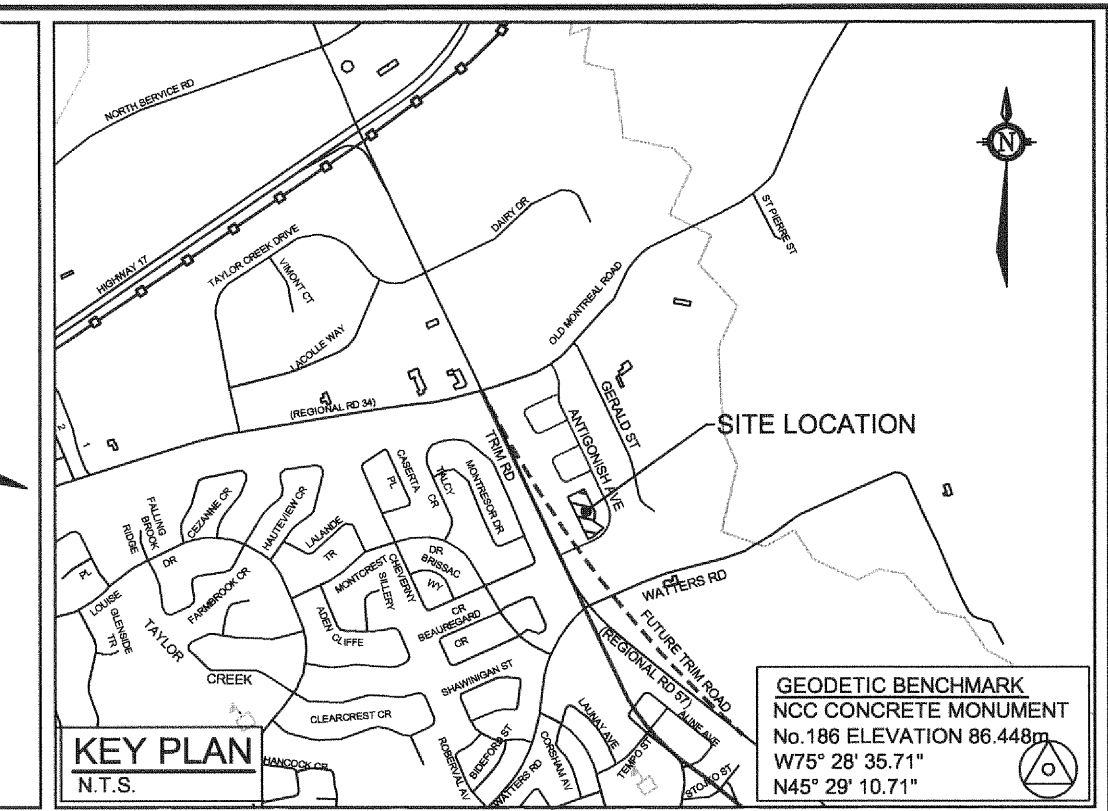
- THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SUCH AS BUT NOT LIMITED TO INSTALLING FILTER CLOTHS ACROSS MANHOLE/CATCHBASIN LIDS TO PREVENT SEDIMENT FROM ENTERING STRUCTURES AND INSTALL AND MAINTAIN A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.
- THE CONTRACTOR SHALL PLACE FILTER CLOTH UNDER THE CATCHBASIN AND MANHOLE GRATES FOR THE DURATION OF CONSTRUCTION AND WILL REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
- SILT FENCING FOR ENTIRE PERIMETER OF SITE, SHALL BE UTILIZED TO CONTROL EROSION FROM THE SITE DURING CONSTRUCTION.
- THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

**PAVEMENT STRUCTURE:**

- FIRE ROUTE:**  
 40mm HL3  
 50mm HL8  
 150mm GRAN "A"  
 300mm GRAN "B"
- PARKING STALL AND AISLES:**  
 50mm HL3  
 150mm GRAN "A"  
 300mm GRAN "B"

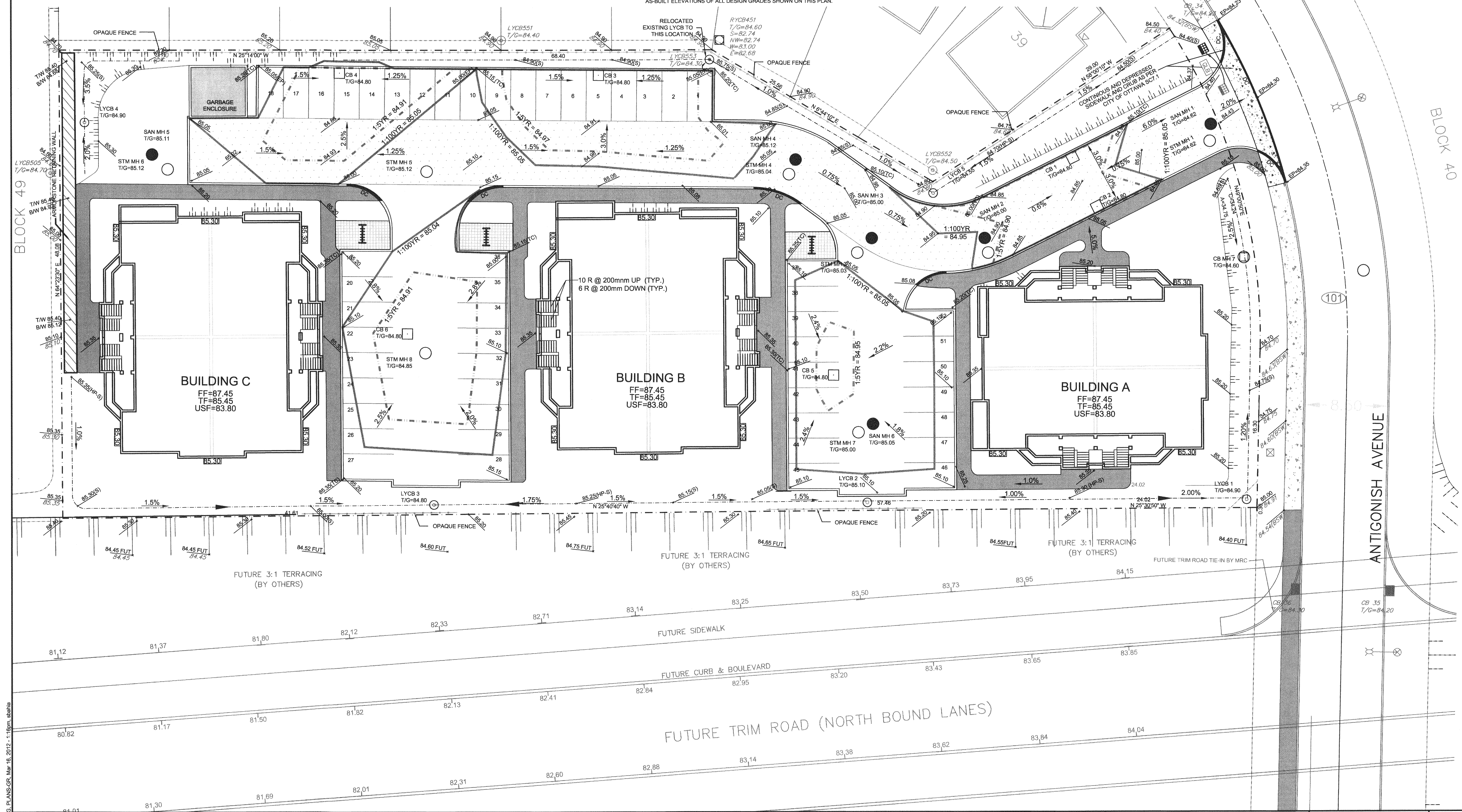
**GEOTECHNICAL REPORT:**

- REFER TO SUPPLEMENTAL GEOTECHNICAL INVESTIGATION ( 09-1121-0163-30002, FEB. 2010) PREPARED BY GOLDER ASSOCIATES.



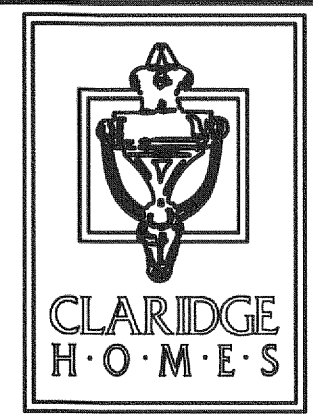
**LEGEND**

- SWALE AND DIRECTION OF FLOW
- DRAINAGE EASEMENT LIMIT
- PROPOSED ELEVATION
- EXISTING ELEVATION
- PROPOSED SWALE ELEVATION
- PROPOSED HIGH POINT OF SWALE ELEVATION
- PROPOSED TOP OF GRATE ELEVATION
- FF= FINISH FLOOR ELEVATION
- USF= UNDERSIDE OF FOOTING ELEVATION
- PROPOSED TERRACE ELEVATION
- 85.50 FUTURE ROAD ELEVATION
- MAXIMUM 3:1 SIDESLOPE
- 2.0% REARYARD GRADE AND DIRECTION
- HYD PROPOSED HYDRANT LOCATION
- T/F=85.35 PROPOSED TOP OF BOTTOM FLANGE
- CB PROPOSED ROAD CATCHBASIN
- LYCB PROPOSED LANDSCAPE YARD CATCHBASIN
- 1.5 YEAR PONDING ELEVATION
- 1:100 YEAR PONDING ELEVATION



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.

**CLARIDGE HOMES**  
 CLARIDGE HOMES SUITE 2001, 210 GLADSTONE AVENUE, OTTAWA, ONTARIO K2P 0Y6.



**NOTE:**  
 CONTRACTOR TO CONFIRM ELEVATIONS OF INFRASTRUCTURE IN THE STREET PRIOR TO EXTENDING SERVICES INTO THE SITE AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.

No.	REVISION	DATE	BY
6.	ISSUED FOR SITE PLAN APPLICATION	MAR. 12/2012	GJM
5.	ISSUED TO ARCHITECT FOR REVIEW	MAR. 08/2012	BHB
4.	ISSUED TO ARCHITECT FOR REVIEW	FEB. 13/2012	BHB
3.	ISSUED TO ARCHITECT FOR REVIEW	FEB. 02/2012	BHB
2.	ISSUED TO ARCHITECT FOR REVIEW	NOV. 9/2011	GJM
1.	ISSUED TO ARCHITECT FOR REVIEW	OCT. 19/2011	GJM

SCALE  
 1:200

**FOR REVIEW ONLY**

DESIGN: BHB  
 CHECKED: GJM  
 DRAWN: LLW  
 CHECKED: BHB  
 APPROVED: GJM

PROFESSIONAL ENGINEER  
 B. H. DALLA  
 10168487  
 March 16/12  
 PROVINCE OF ONTARIO

PROFESSIONAL ENGINEER  
 G.J. McDONALD  
 10168487  
 March 16/12  
 PROVINCE OF ONTARIO

**NOVATECH**  
 ENGINEERING CONSULTANTS LTD.  
 ENGINEERS & PLANNERS  
 Suite 200, 240 Michael Cowpland Drive  
 Ottawa, Ontario, Canada  
 K2M 1P6  
 Telephone: (613) 254-9643  
 Facsimile: (613) 254-5867  
 Email: novatech@novatech-eng.com

LOCATION: CITY OF OTTAWA, ROYAL RIDGE BLOCK 47

DRAWING NAME: GRADING AND EROSION SEDIMENT CONTROL PLAN

PROJECT No.: 111156-00  
 REV # 6  
 DRAWING No.: 111156-GR