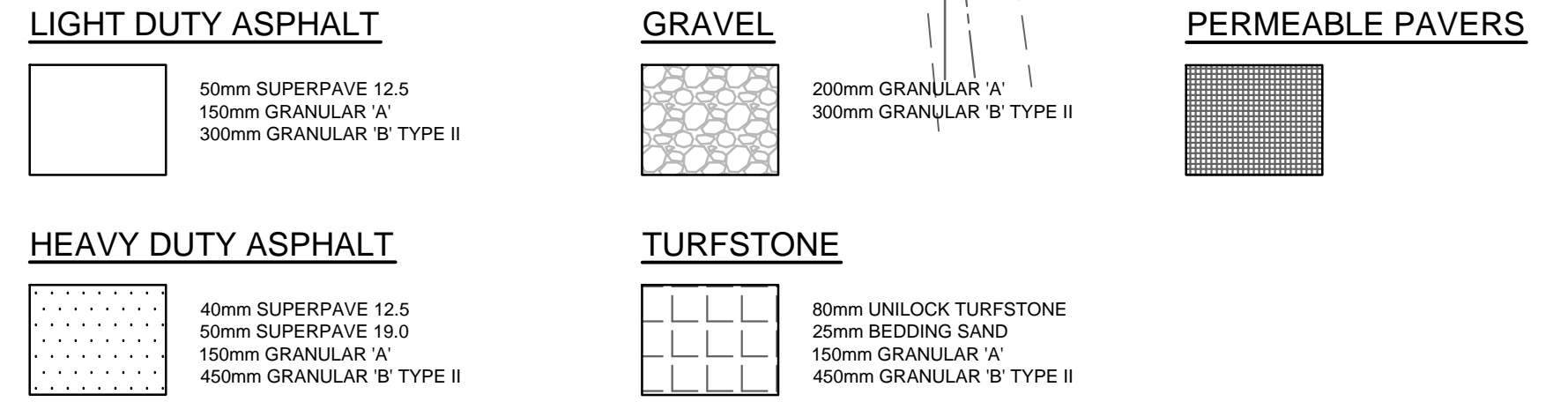


- LEGEND**
- PROPOSED ELEVATION
  - PROPOSED CENTERLINE OF DITCH ELEVATION
  - PROPOSED TOP OF CURB ELEVATION
  - PROPOSED TOP OF SWALE ELEVATION
  - PROPOSED BOTTOM OF SWALE ELEVATION
  - PROPOSED FINISHED FLOOR ELEVATION
  - NEW ROAD DESIGN GRADE
  - GRADE AND DIRECTION
  - MAXIMUM 3:1 SIDESLOPE
  - PROPOSED SWALE
  - PROPOSED CURB
  - PROPOSED DEPRESSED CURB
  - PROPOSED CULVERT
  - PROPOSED STORM MANHOLE
  - PROPOSED CATCHBASIN MANHOLE
  - PROPOSED CATCHBASIN
  - PROPOSED LANDSCAPE DRAIN
  - PROPOSED SANITARY MANHOLE
  - PROPOSED VALVE & VALVE BOX
  - PROPOSED FIRE HYDRANT
  - PROPOSED TRANSFORMER
  - DIRECTION OF MAJOR OVERLAND FLOW
  - PROPOSED STORMCEPTOR
  - PROPOSED BUILDING ENTRANCE
  - EXISTING ELEVATION
  - EXISTING TOP OF CURB ELEVATION
  - EXISTING STORM MANHOLE
  - EXISTING SANITARY MANHOLE
  - EXISTING CATCHBASIN
  - EXISTING DITCH INLET CATCH BASIN
  - EXISTING TOP OF GRATE
  - EXISTING VALVE & VALVE BOX
  - EXISTING HYDRANT C/W VALVE
  - EXISTING UTILITY-POLE C/W GUY WIRES
  - EXISTING SWALE
  - EXISTING CURB
  - EXISTING DEPRESSED CURB
  - EXISTING CULVERT
  - EXISTING OVERHEAD WIRES
  - EXISTING TRANSFORMER
  - GEODETIC BENCHMARK
  - DAIRY ROAD FIRE HYDRANT TOP OF SPINDLE 176.00m WEST OF SOUTH FRONTAGE ELEVATION = 57.53

- 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 \$2,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
  - RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE 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 ELEVATIONS ARE GEODETIC.
  - REFER TO GEOTECHNICAL INVESTIGATION NO. 15-883, DATED AUGUST 2013, PREPARED BY HOLLÉ CHEVRIER ENGINEERING FOR SUBSURFACE CONDITIONS, 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 THE DEVELOPMENT SERVICES STUDY AND STORMWATER MANAGEMENT REPORT (R-2013-105, AUGUST, 2013) PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.
  - SAW CUT AND KEY GRIND ASPHALT AT ALL ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

- GRADING NOTES:**
- ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS.
  - EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL CONSULTANT.
  - ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUBEXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS.
  - THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
  - GRADE AND/OR FILL BEHIND PROPOSED CURBS AND BETWEEN BUILDINGS AND CURBS, WHERE REQUIRED TO PROVIDE POSITIVE DRAINAGE.
  - MINIMUM OF 2% GRADE FOR ALL GRASS AREAS 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).

- 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 SEDIMENTS 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.



**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.

No.	REVISION	DATE	BY
6.	ISSUED FOR SITE PLAN APPROVAL	JUN 4/14	MS
5.	ISSUED FOR MOE APPROVAL	MAY 27/14	MS
4.	REVISED AS PER CITY COMMENTS	MAY 26/14	MS
3.	REVISED PER CITY OF OTTAWA COMMENTS	MAY 13/14	MS
2.	REVISED PER CITY OF OTTAWA COMMENTS	FEB 7/14	MS
1.	ISSUED FOR SITE PLAN APPLICATION	NOV 5/13	MS

SCALE	FOR REVIEW ONLY
1:400	CJO
1:400	MS
1:400	MTM
1:400	CJO
1:400	MS

**NOVATECH ENGINEERING CONSULTANTS LTD.**  
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 (613) 254-9643  
 novatech@novatech-eng.com

LOCATION: 955 DAIRY DRIVE, CITY OF OTTAWA / VV ORLEANS / TRIMTERRA DEVELOPMENTS  
 DRAWING NAME: GRADING, EROSION SEDIMENT CONTROL PLAN  
 PROJECT NO.: 113071-00  
 REV: # 06  
 DRAWING NO.: 113071-GR