### GRADING NOTES

- 1. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE STARTING ANY GRADING WORKS.
- 2. THE CONTRACTOR IS TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION
- 3. THE SITE SHALL BE GRUBBED AND CLEARED OF ALL ROCKS AND OTHER DETACHED STONES, TREES, BRUSH, DEADFALL, GRASS AND ALL DEBRIS.
- 4. STUMP HOLES AND OTHER HOLES FROM WHICH OBSTRUCTIONS ARE REMOVED. SHALL BE BACKFILLED WITH SUITABLE MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER IN 200mm LIETS AND COMPACTED TO AT LEAST 98% OF THE MATERIALS STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 5. NO MATERIAL OR DEBRIS SHALL BE DISPOSED OF WITHIN THE PROJECT LIMITS. ALL WASTE MATERIAL AND SURPLUS TOPSOIL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH LOCAL JURISDICTION.
- 6. IN THE AREAS DESIGNATED FOR FILL, SUITABLE MATERIALS APPROVED BY THE GEOTECHNICAL ENGINEER SHALL BE USED AND PLACED IN 200mm LIFTS AND COMPACTED TO 100% OF ITS STANDARD PROCTOR
- 7. FILL MATERIAL SHALL NOT BE PLACED WHEN THE MATERIAL IS FROZEN, NOR SHALL SNOW, ICE OR FROZEN EARTH BE INCORPORATED INTO THE
- 8. THE ELEVATIONS SHOWN ARE AT FINISHED GRADE.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED PROPERTY WITHIN AND ADJACENT TO THE CONSTRUCTION AREA.
- 10. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS SET PREPARED BY PARKER CONSULTING ENGINEERS

#### SERVICING NOTES

- 1. SOLID STORM SEWERS TO BE PVC SDR-35 CERTIFIED TO CSA-B-182.2 AND CSA-B-182.4 OR HDPE PIPE AASHTO M294-CAN/CSAB182 WITH INTEGRAL BELL AND SPIGOT ULTILIZING FLEZIBLE ELASTOMERIC SEALS OR ADEQUATE APPROVED BY THE DESIGN ENGINEER.
- 2. STORM SEWER INSTALLATION METHODS SHALL CONFORM TO OPSS 404 SUPPORT SYSTEMS AND OPSS 410 SEWER PIPE INSTALLATION IN OPEN CUT. FLEXIBLE PIPE BEDDING AND COVER MATERIAL PIPES SHALL BE GRANULAR 'A' COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD) AS PER OPSD 802.010. AND OPSS 401. ALL TRENCH BACKFILL SHALL BE SELECT NATIVE MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER COMPACTED IN 200mm THICK LIFTS COMPACTED TO 98% SPMDD. WHERE SELECT NATIVE MATERIAL IS NOT SUITABLE FOR TRENCH BACKFILL GRANULAR 'B' SHALL BE USED.
- 3. THE SUBDRAIN TO BE PERFORATED HDPE STORM SEWER PIPE OF 320KPA WITH SPLIT COUPLE JOINING SYSTEM CONFORMING TO CSA 182.8-02, OPSS 1840 BY ARMTEC OR EQUIVALENT APPROVED BY ENGINEER.
- 4. ALL PIPE ELEVATIONS ARE GIVEN TO INVERT, UNLESS OTHERWISE
- 5. DIMENSIONAL TOLEREANCES FOR BURIED PIPE LOCATION AND ELEVATION IS +/- 10mm.
- 6. CAP OPEN ENDS OF UNDERDRAINAGE.
- 7. GEOTEXTILE TO BE ARMTEC OR EQUIVALENT APPROVED BY ENGINEER.

## MATERIAL COMPACTION NOTES

THE FOLLOWING SCHEDULE SHALL BE USED FOR THE PLACEMENT AND COMPACTION OF THE PROPOSED MATERIALS AS PER THE GEI CONSULTANTS SUBSURFACE INVESTIGATION AND GEOTECHNICAL REPORT, ALMONTE-BATTERY ENERGY STORAGE SYSTEM, 6299 COUNTY ROAD 29, MISSISSIPPI MILLS, ONTARIO, DATED FEBRUARY 28, 2024.

- EXTERNAL GRAVEL ACCESS ROADS: - 200mm THICK GRANULAR A (OPSD.MUNI 1010) COMPACTED TO 100%
- 400mm THICK GRANULAR B TYPE I OR II (OPSD.MUNI 1010) COMPACTED TO 100% SPMDD

THE FOLLOWING SCHEDULE SHALL BE USED FOR THE PLACEMENT AND COMPACTION OF THE PROPOSED MATERIALS AS PER THE EMAIL FROM ALEXANDER WINKELMANN AT GEI CONSULTANTS, RE: ALMONTE ROAD DESIGN - GEO SPECIFICATIONS, DATED JUNE 28, 2024.

INTERNAL GRAVEL ACCESS ROADS:

- 150mm THICK GRANULAR A (OPSD.MUNI 1010) COMPACTED TO 100% - 300mm THICK GRANULAR B TYPE II (OPSD.MUNI 1010) COMPACTED TO
- GRAVEL PAD AREAS: - 150mm THICK WASHED CRUSHED STONE, 3,000 ohm-m, LOOSLY COMPACTED - 300mm THICK GRANULAR B TYPE II (OPSD.MUNI 1010) COMPACTED TO
- GRANULAR SUB BASE: - COMPACTED TO 100% SPMDD

GRASSED AREAS:

100% SPMDD

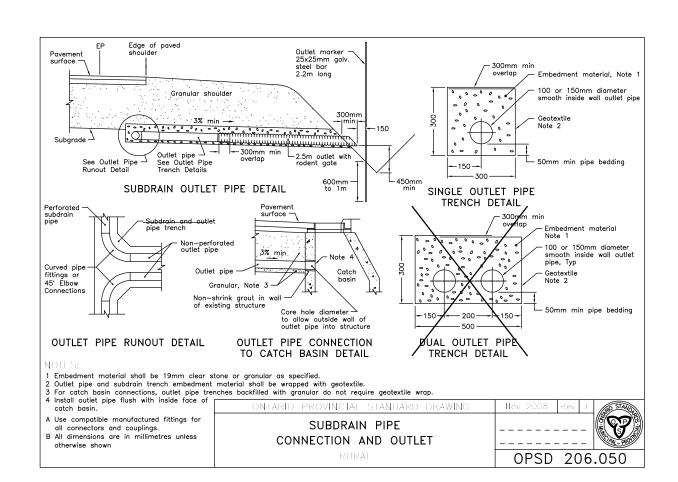
- GRASS SEED / SOD - 150mm THICK TOPSOIL

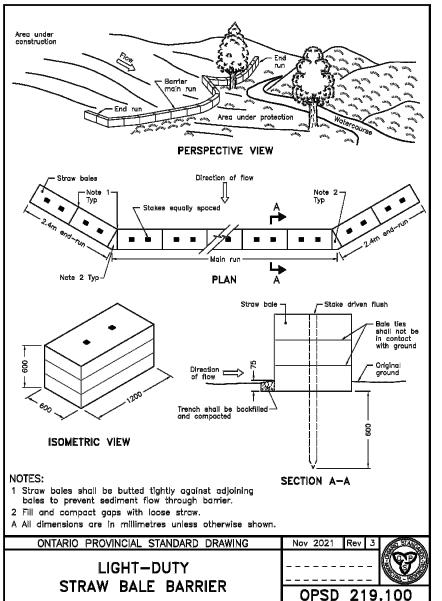
# **CONSTRUCTION NOTES**

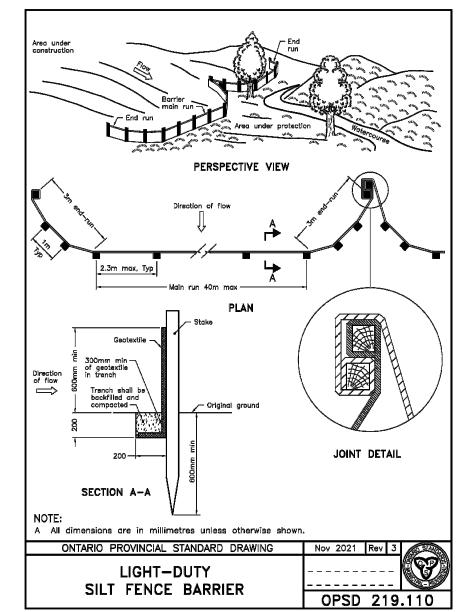
- 1. THE FOREGOING DESIGN ASSUMES THAT CONSTRUCTION IS CARRIED OUT DURING DRY PERIODS AND THE SUB-GRADE IS STABLE UNDER THE LOAD OF THE CONSTRUCTION EQUIPMENT. IF CONSTRUCTION IS CARRIED OUT DURING WET WEATHER AND HEAVING OR ROLLING OF THE SUB-GRADE IS EXPERIENCED ADDITIONAL THICKNESS OF GRANULAR MATERIAL MAY BE REQUIRED.
- 2. THE LONG-TERM PERFORMANCE OF THE ROAD BASE STRUCTURE IS HIGHLY DEPENDENT UPON THE SUB-GRADE SUPPORT CONDITIONS. STRINGENT CONSTRUCTION CONTROL PROCEDURES SHOULD BE MAINTAINED TO ENSURE THAT UNIFORM SUB-GRADE MOISTURE AND DENSITY CONDITIONS ARE ACHIEVED. IF GOOD MATERIAL IS EXPERIENCED DURING THE EXCAVATION PROCESS, A GRAIN SIZE ANALYSIS MUST BE COMPLETED TO DETERMINE IF THE MATERIAL CAN BE LEFT IN PLACE AND ALLOW A REDUCTION IN THE FINISHED GRANULAR SURFACE. THE UNDERLYING SUB-GRADE WILL BE FREE OF DEPRESSIONS IS TO BE SLOPED TO PROVIDE POSITIVE SURFACE DRAINAGE. SURFACE WATER IS NOT BE ALLOWED TO POND ADJACENT TO THE OUTSIDE EDGES.
- 3. AS PART OF THE SUB-GRADE PREPARATION, PROPOSED ROADWAYS SHALL BE STRIPPED OF TOPSOIL AND THE OBVIOUSLY UNSUITABLE MATERIAL. FILL REQUIRED TO RAISE THE GRADES TO DESIGN ELEVATIONS SHALL BE ORGANIC-FREE AND AT THE MOISTURE CONTENT WHICH WILL PERMIT COMPACTION TO THE DENSITIES INDICATED. THE SUB-GRADE SHALL BE PROPERLY SHAPED, CROWNED, AND THAN PROOF-ROLLED IN THE FULL-TIME PRESENCE OF THE GEOTECHNICAL CONSULTANT. SOFT OR SPONGY SUB-GRADE AREAS SHALL BE SUBEXCAVATED AND PROPERLY REPLACED WITH A SUITABLE APPROVED BACKFILL.

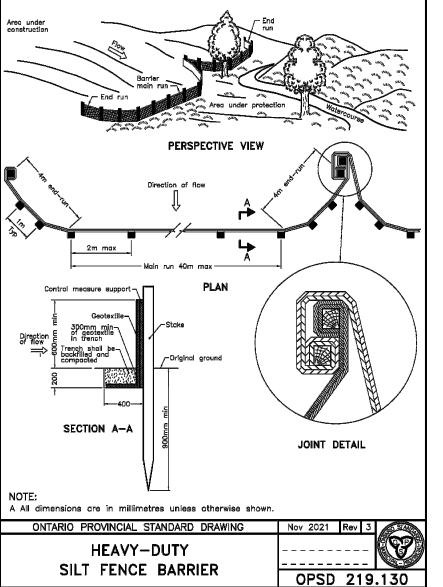
# TOPOGRAPHICAL SURVEY NOTE

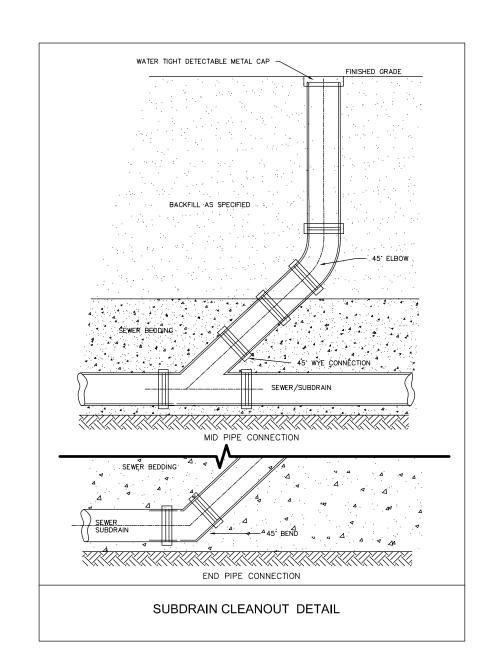
THE TOPOGRAPHIC SURVEY INFORMATION HAS BEEN PROVIDED BY-OTHERS AND PARKER CONSULTING ENGINEERS LTD. CANNOT BE HELD LIABLE FOR ANY DAMAGES AS A RESULT OF THE USE OF THE DATA. THE CONTRACTOR IS TO CONFIRM THE EXISTING SITE CONDITIONS AND ADVISE PARKER CONSULTING ENGINEERS LTD. OF ANY DISCREPANCIES.

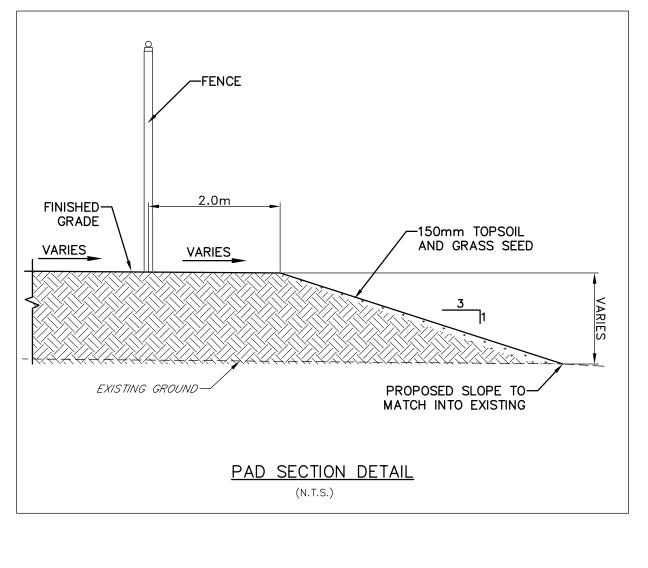


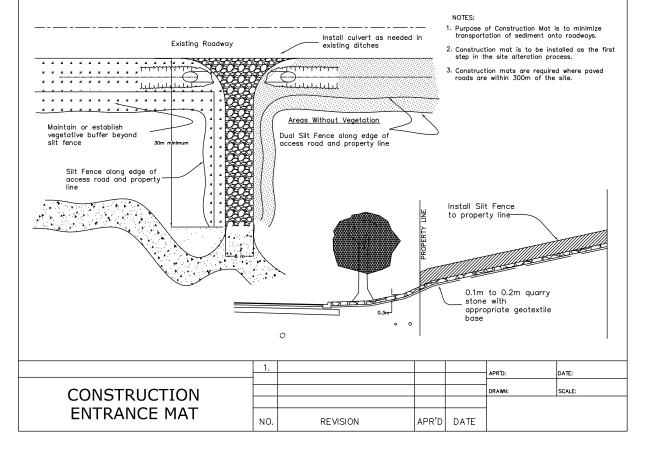


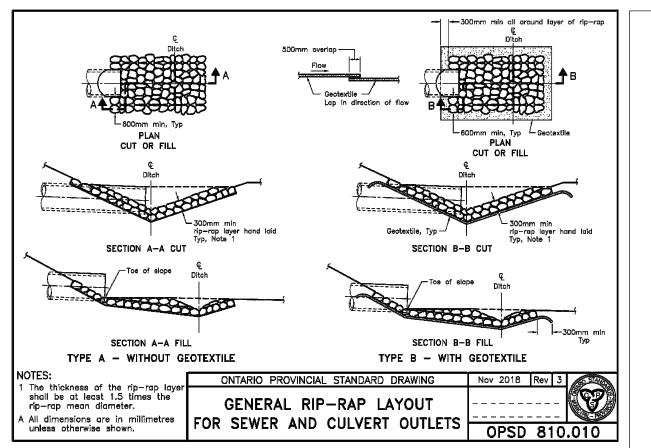


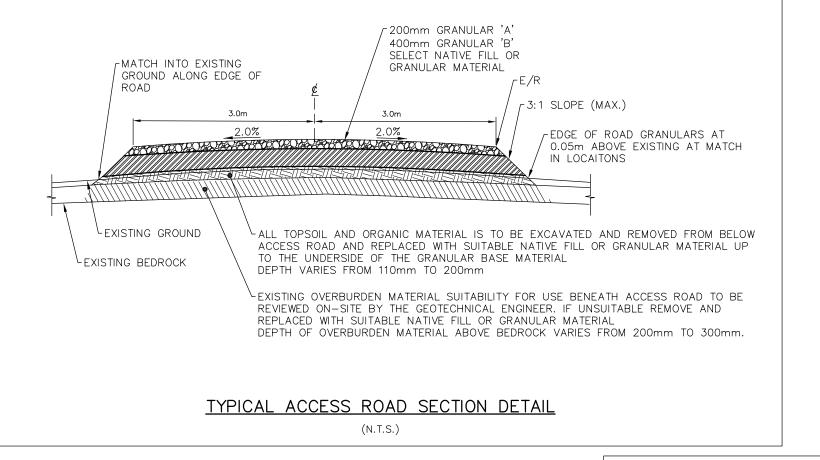












**PARKER CONSULTING ENGINEERS LTD.** 





NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE

INFORMATION HAS BEEN TAKEN FROM THE PLAN

ILLUSTRATING TOPOGRAPHICAL INFORMATION ON PART

OF LOT 8 CONCESSION 8, GEOGRAPHIC TOWNSHIP OF RAMSAY, MUNICIPALITY OF MISSISSIPPI MILLS, COUNTY OF LANARK, PROVIDED BY GEORGE N. BRACKEN,

ONTARIO LAND SURVEYOR, REFERENCE No. 24-2281.

CANNET VRS NETWORK STATION CARLETON PLACE,

- MAG NAIL IN ROOT OF 0.400 BASSWOOD TREE

THE STATION INFORMATION HAS BEEN TAKEN FROM THE ALMONTE 4.99 MW BESS SITE LAYOUT PLAN,

PREPARED BY CHIMAX INC., DRAWING No. 2350-E01.

- MAG NAIL IN 0.600 OAK TREE HAVING AN

2. THE TOPOGRAPHICAL AND LEGAL SURVEY

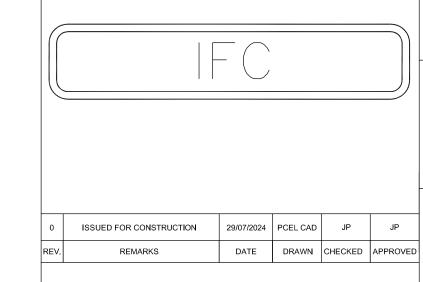
ELEVATIONS SHOWN HEREON ARE GEODETIC (CGVD-1928: 1978) AND ARE DERIVED FROM THE

HAVING AN ELEVATION OF 140.03m

ELEVATION = 144.59m

FLEVATION OF 139.82m

1. SURVEY BENCHMARK



ISSUED FOR CONSTRUCTION





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**COMPASS ENERGY ALMONTE BESS** 

ALMONTE 4.99 mv BESS GRADING DETAILS

CLIENT DRAWING NUMBER

2350-C206 0 CHECKED: APPROVED: SCALE: 04/04/2024 PCEL CAD JP