

H

G

F

E

D

C

B

A

H

G

F

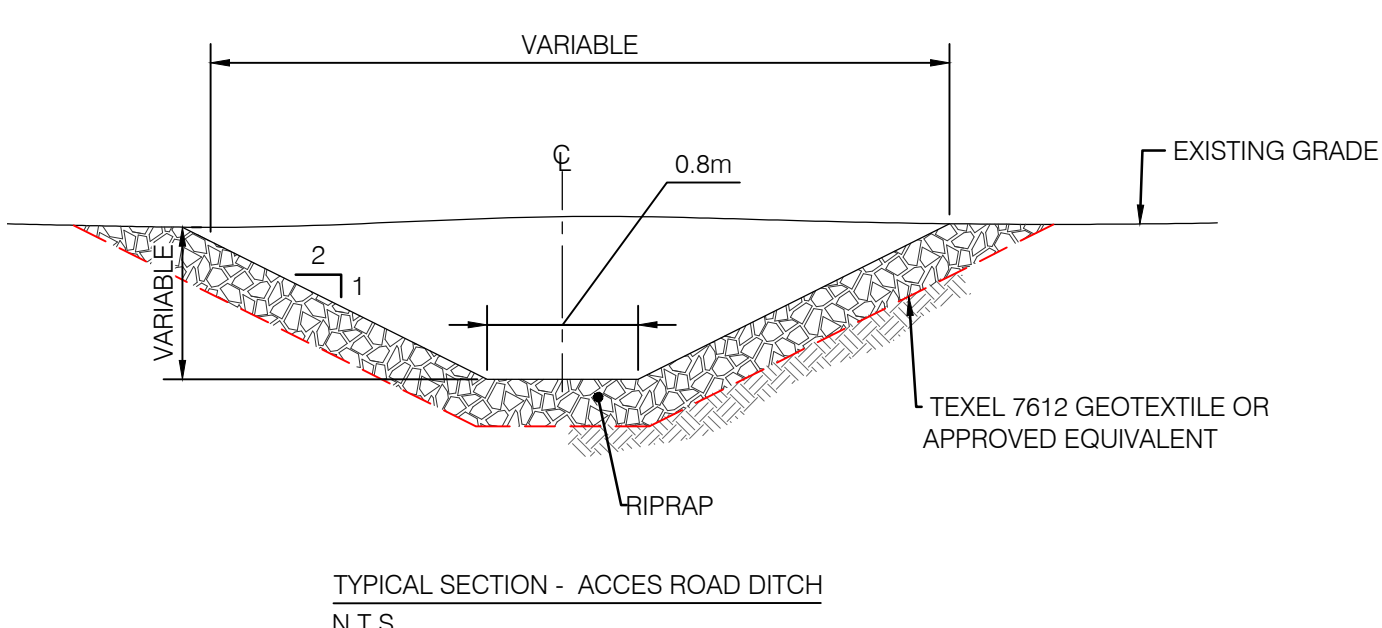
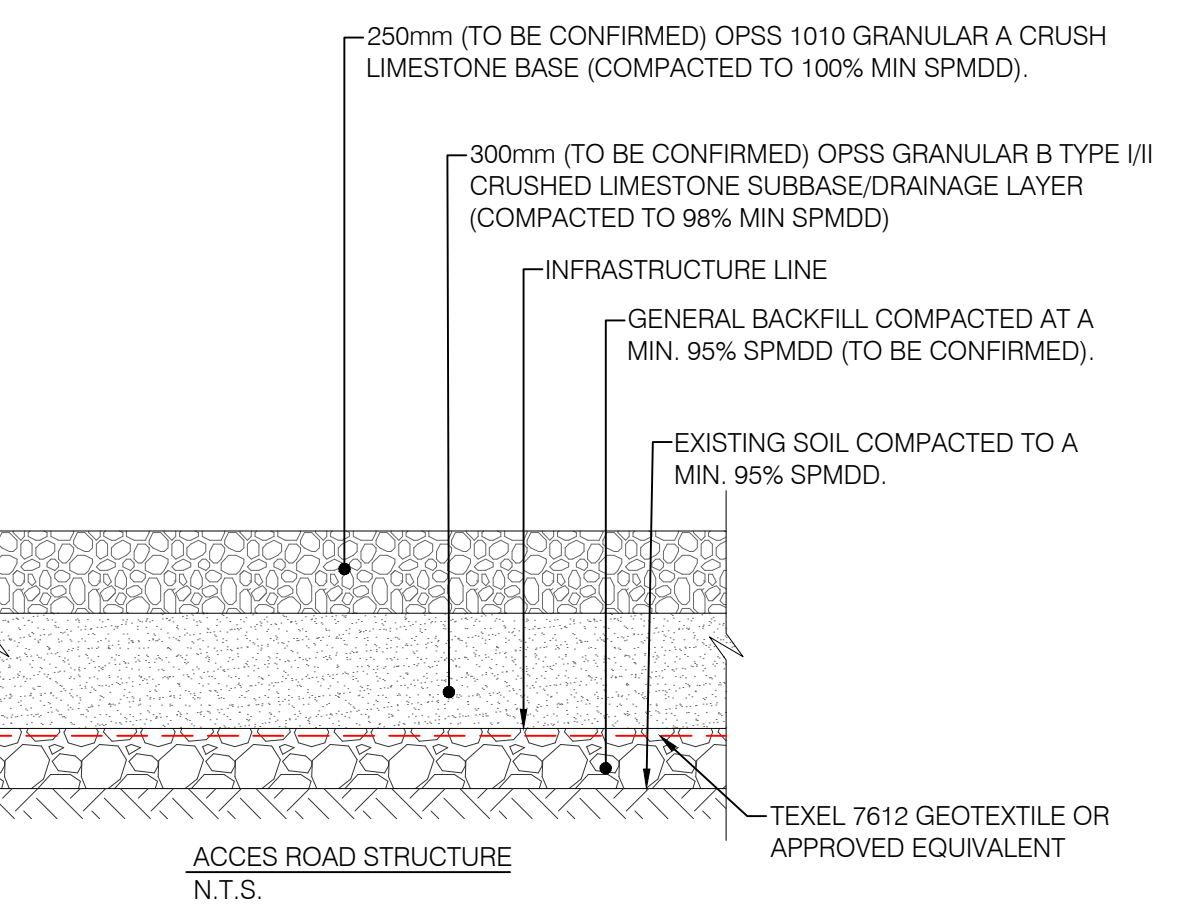
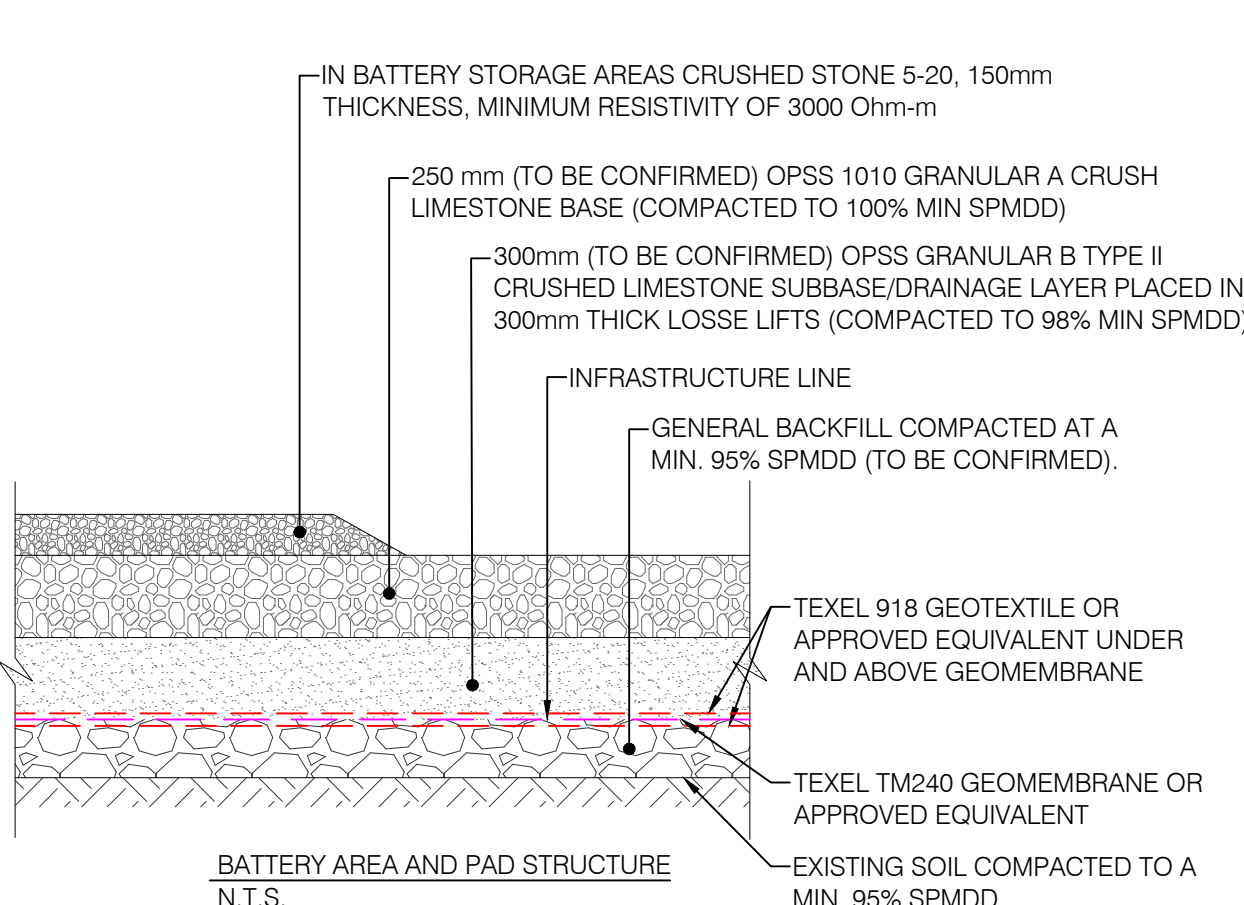
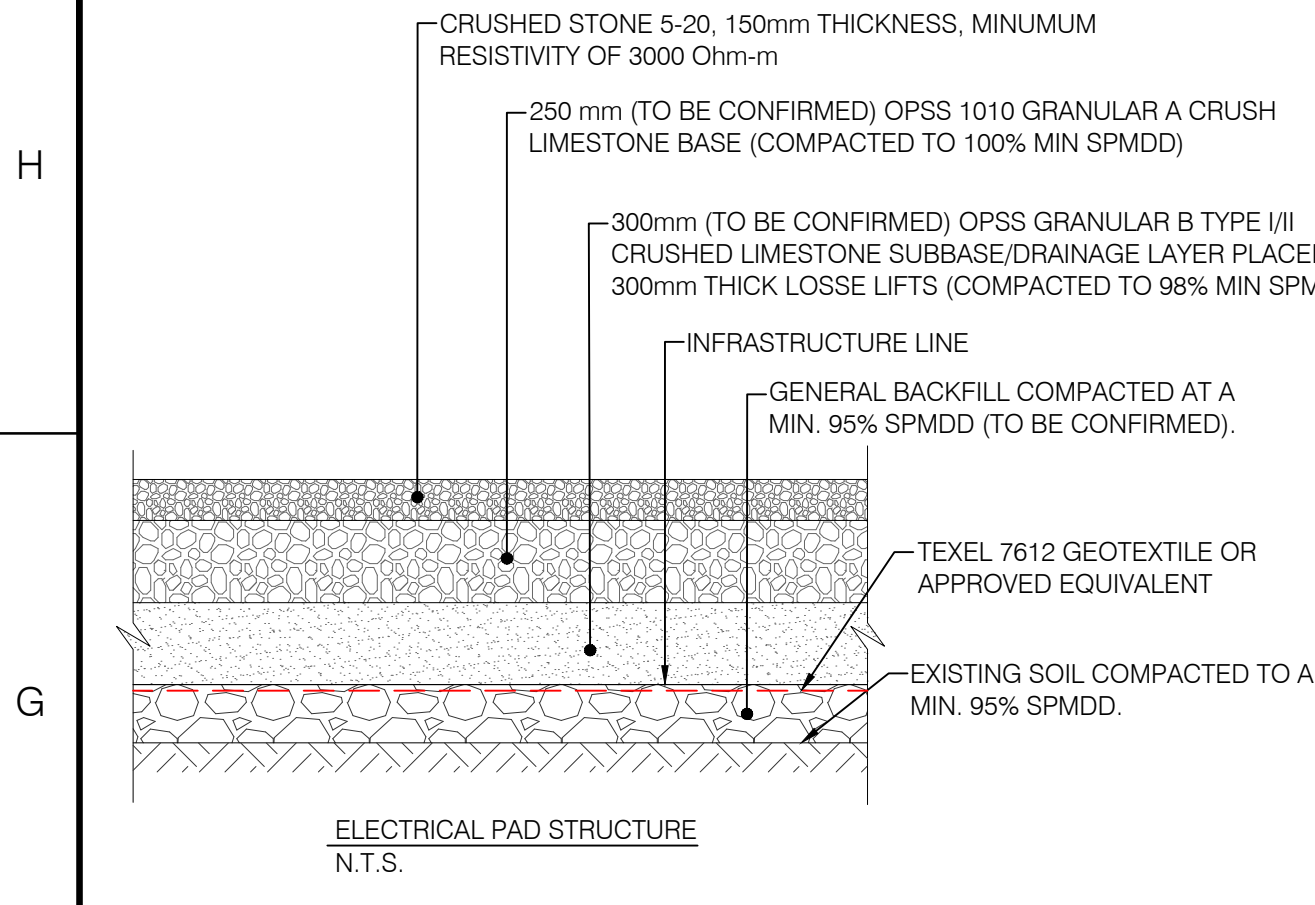
E

D

C

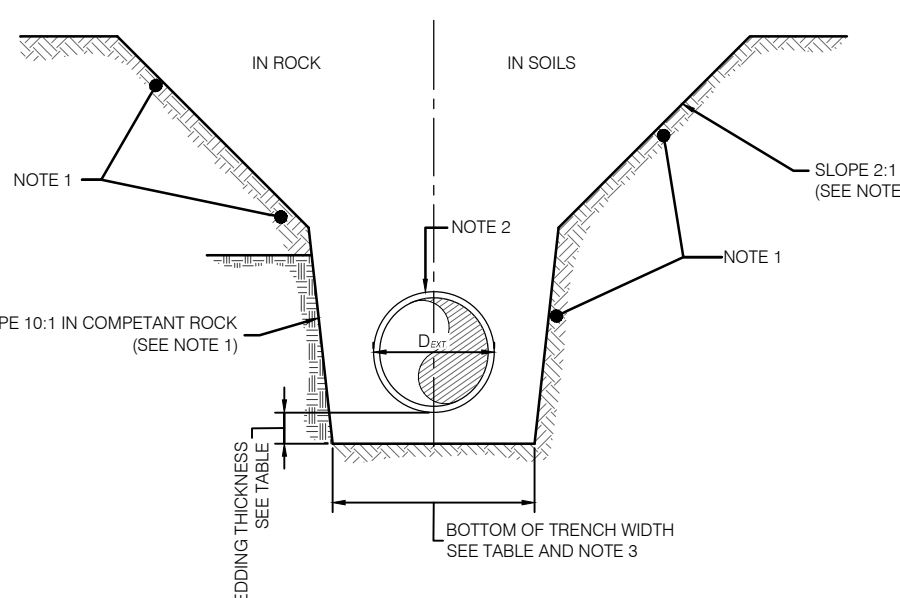
B

A



NOTES:

1. ALL MATERIAL THICKNESS SHALL BE VALIDATED FOLLOWING THE GEOTECHNICAL REPORT RECOMMENDATION(S), BASED ON THE DESIGN VEHICLE
2. DIMENSIONS ON THIS DRAWING ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE.

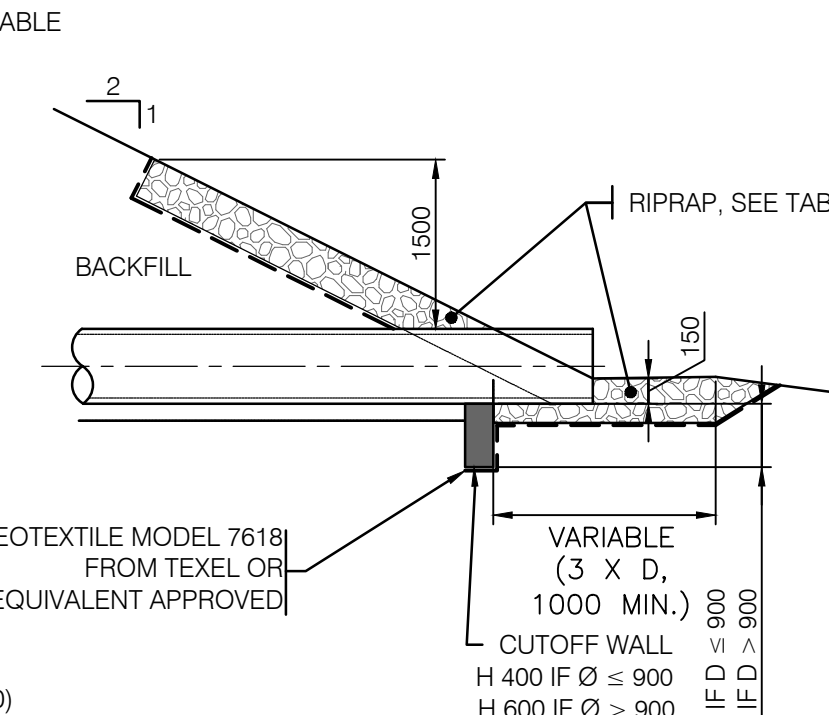
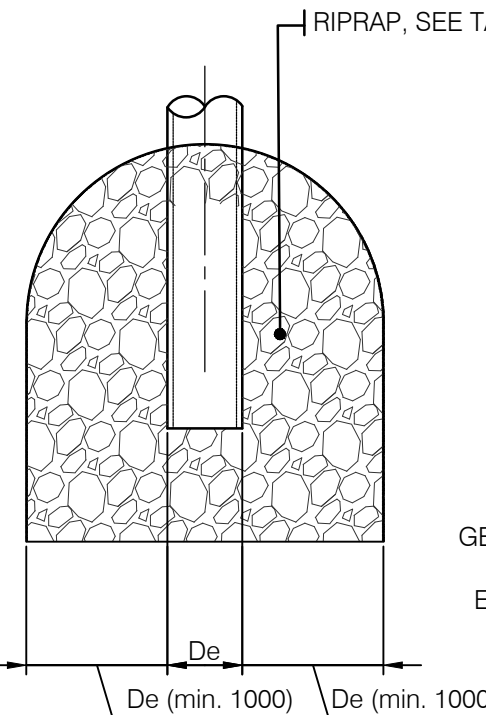
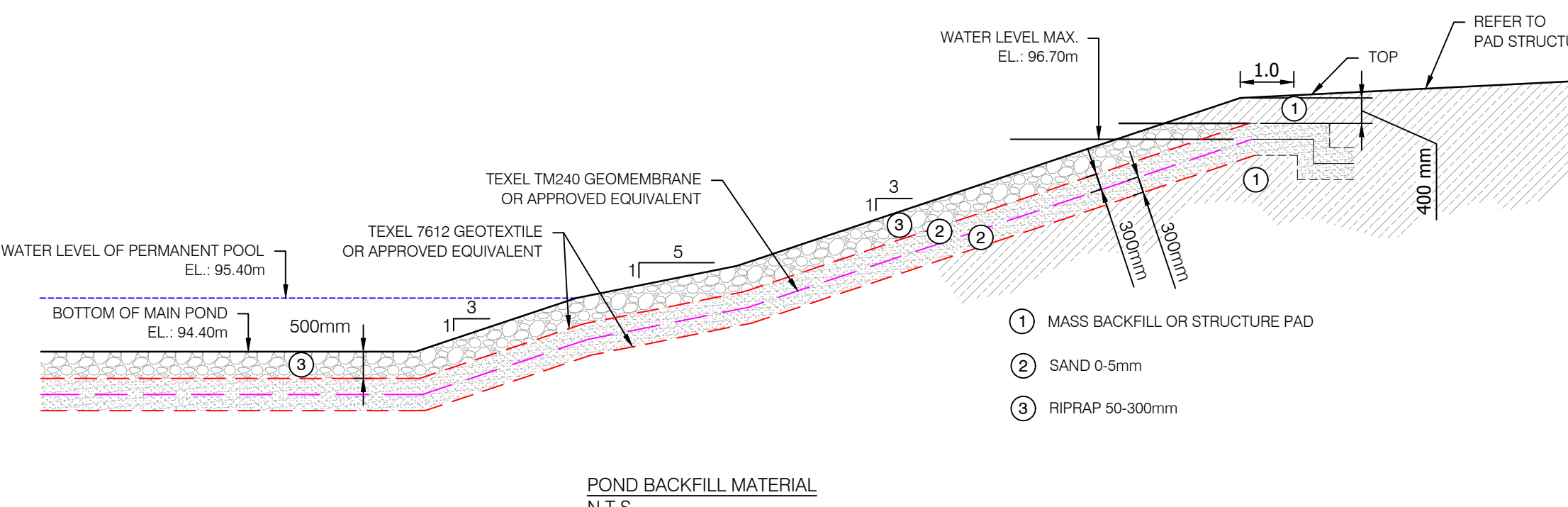
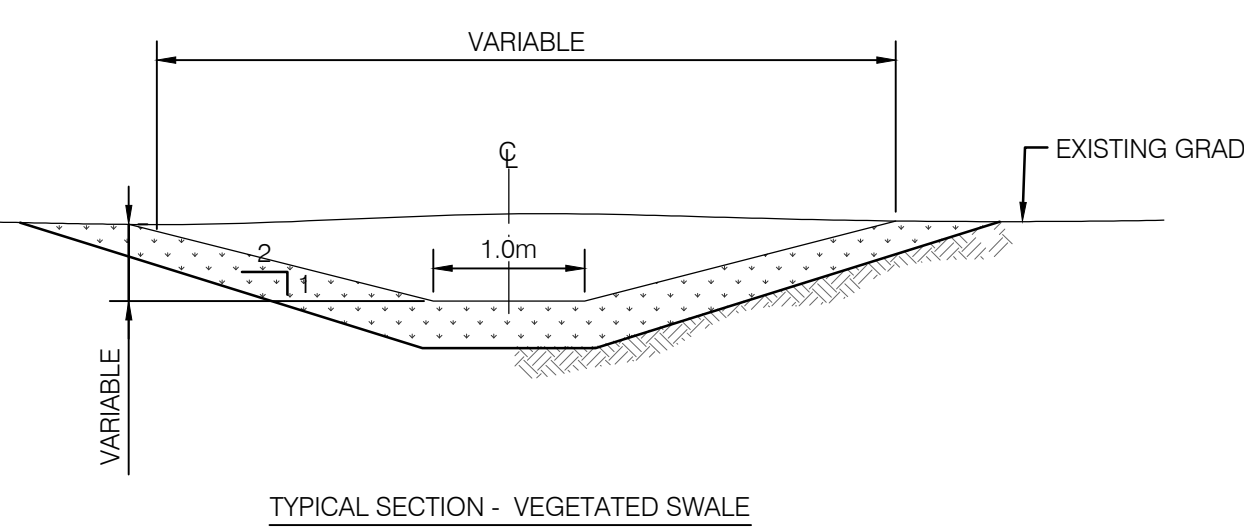
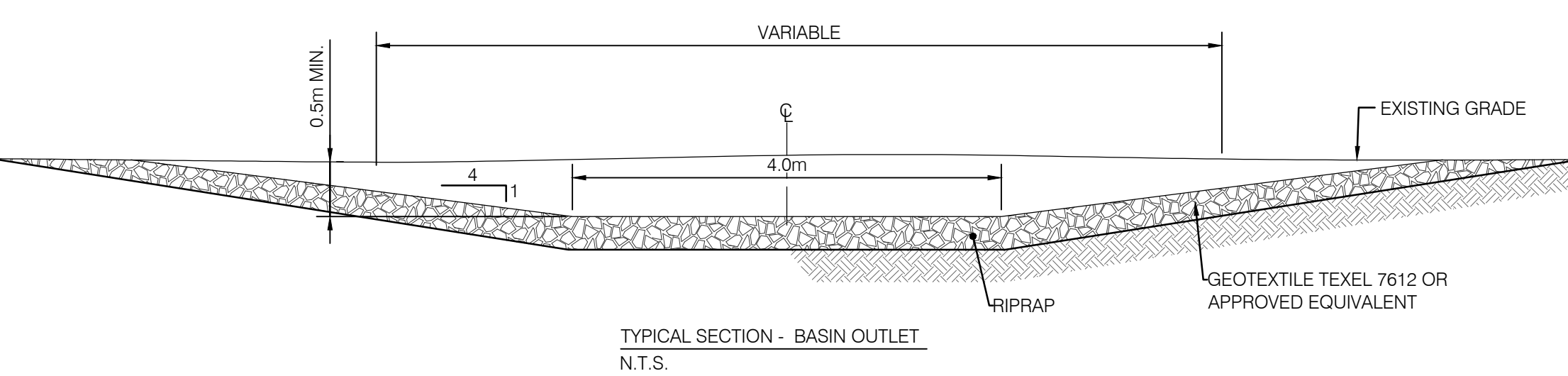
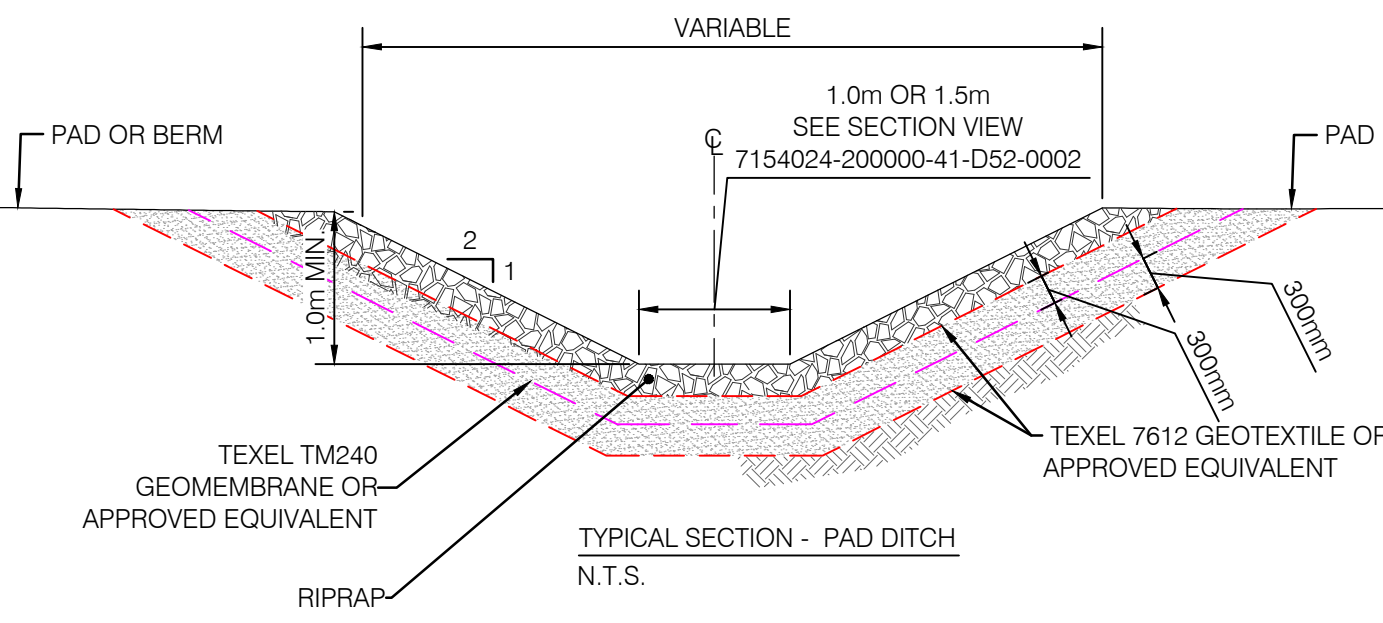


NOTES:

1. EXCAVATION SLOPES ARE NOT RESTRICTED TO SLOPES SHOWN ON DRAWING. THE EXCAVATION MUST MEET THE REQUIREMENTS OF THE "OCCUPATIONAL HEALTH AND SAFETY ACT", NAMELY THE REQUIREMENTS FOR MATERIAL STORAGE, CIRCULATION OF VEHICLES NEAR THE EXCAVATION AND STABILITY OF THE SLOPES.
2. THE PIPE MUST BE CENTERED AT THE BOTTOM OF THE TRENCH. Dext. IS THE OUTSIDE DIAMETER OF THE PIPE, MEASURED IN MILLIMETERS.
3. BOTTOM OF TRENCH WIDTH CORRESPONDS TO THE DISTANCE BETWEEN SHORING WALLS, IF EXCAVATION IS SUPPORTED.

| NOMINAL DIAMETER OF THE PIPE (mm) | MIN. BEDDING THICKNESS (mm) | BOTTOM OF TRENCH WIDTH (mm)                                                                 |
|-----------------------------------|-----------------------------|---------------------------------------------------------------------------------------------|
| 100 AND LESS                      | 150                         | D <sub>ext</sub> + 900                                                                      |
| 150 TO 300                        | 180                         | D <sub>ext</sub> + 900                                                                      |
| 300 TO 450                        | 200                         | D <sub>ext</sub> + 1200                                                                     |
| 450 TO 600                        | 250                         | D <sub>ext</sub> + 1200                                                                     |
| 600 TO 900                        | 300                         | A) D <sub>ext</sub> + 1200 TRENCHES SHORED<br>B) D <sub>ext</sub> + 900 TRENCHES NOT SHORED |

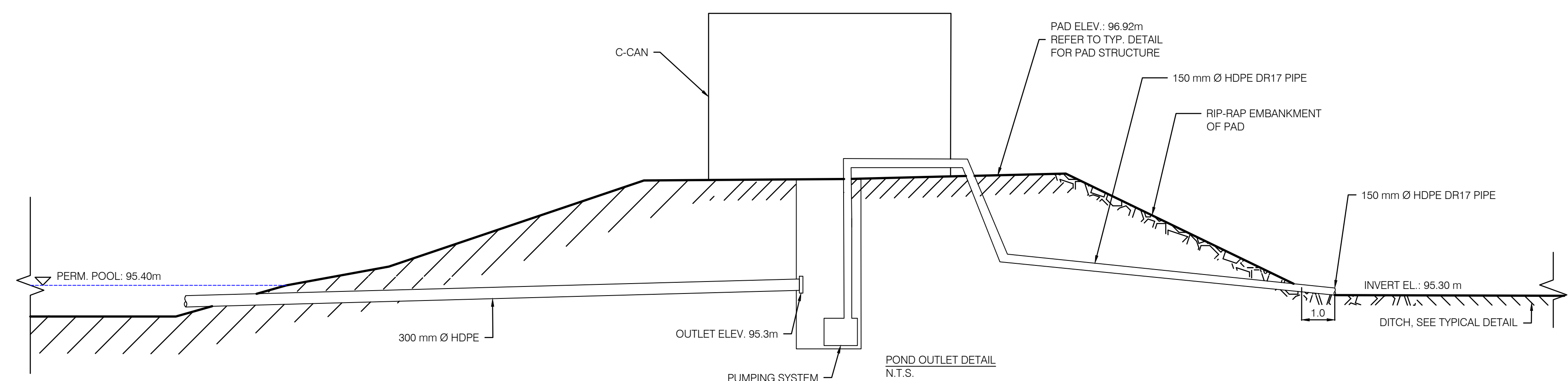
TRENCH SECTION  
N.T.S.



| RIPRAP |                  |               |
|--------|------------------|---------------|
| TYPE   | RIPRAP THICKNESS | DIAMETER (mm) |
| 1      | 300              | 0-200         |
| 2      | 300              | 100-200       |
| 3      | 500              | 200-300       |
| 4      | 700              | 300-400       |
| 5      | 800              | 300-500       |

NOTES:

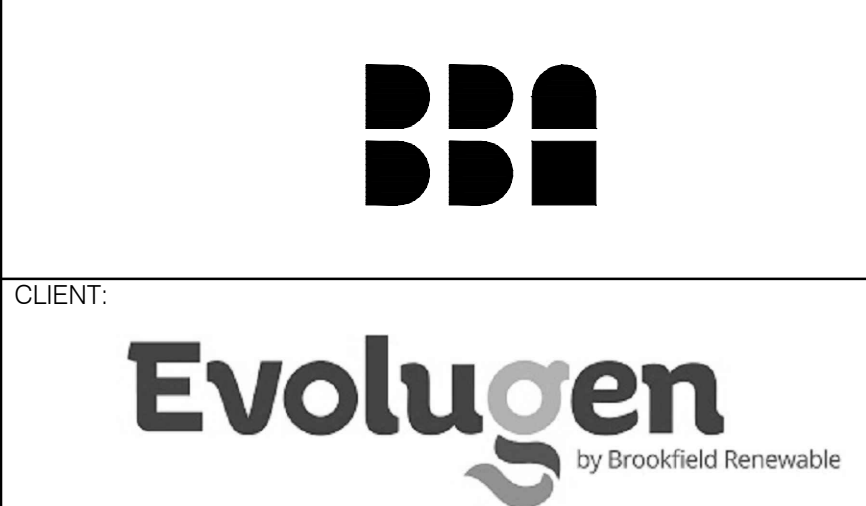
1. D = DIAMETER OF PIPE.
2. DIMENSIONS ARE IN MILLIMETERS



FOR PERMITTING  
NOT TO BE USED FOR CONSTRUCTION

| DRAWING No.                  | DESCRIPTION                                       | REV       | DESCRIPTION    | PREPARED BY | CHECKED BY                                  | DATE       |
|------------------------------|---------------------------------------------------|-----------|----------------|-------------|---------------------------------------------|------------|
| 241437                       | TOPOGRAPHIC PLAN OF SURVEY                        | AD        | FOR COMMENTS   | B. THOMAS   | V. BRUNELLE P. Eng.<br>P.E.O. No. 100617887 | 2025-09-15 |
| SURFACE LIDAR                | LIDAR DTM OTTAWA-GATINEAU 2019-20 PACKAGE M       | AB        | FOR PERMITTING | B. THOMAS   | V. BRUNELLE P. Eng.<br>P.E.O. No. 100617887 | 2025-05-09 |
| 7154024300000-47-D20-0001-02 | TRAIL BESS - 150 MW - 230 kV - 34.5 kV SUBSTATION | AA        | FOR COMMENTS   | B. THOMAS   | V. BRUNELLE P. Eng.<br>P.E.O. No. 100617887 | 2025-05-02 |
| REFERENCE DRAWINGS           |                                                   | REVISIONS |                |             |                                             |            |

SEAL:



|                                         |                                                      |
|-----------------------------------------|------------------------------------------------------|
| PROJECT: TRAIL ROAD BESS                |                                                      |
| TITLE: CIVIL BESS SITE TYPICAL DETAILS  |                                                      |
| DESIGNED BY: B. THOMAS                  | DRAFTED BY: A. MENESSE                               |
| PREPARED BY: B. THOMAS                  | CHECKED BY: V. BRUNELLE P. Eng. P.E.O. No. 100617887 |
| SCALE: N.T.S.                           | DATE: 2025-04-24                                     |
| DRAWING No.: 7154024-200000-41-D01-0002 | SHEET: 01 SIZE: A1 REV: AF                           |