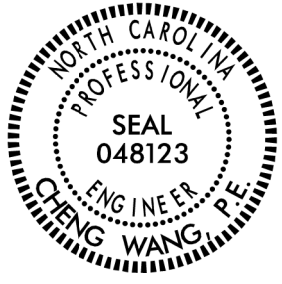


GEOTECHNICAL
ENGINEER



DocuSigned by:
Cheng Wang
12112025

8/8/2025

ENGINEER

SIGNATURE

DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

UNDISTURBED IN-SITU MATERIALS

UNDISTURBED IN-SITU MATERIALS

EXISTING CONDITIONS VARIES
N.T.S.

NOTES:

1. FOR ROCK EMBANKMENT, SEE ROCK EMBANKMENT PROVISION.

2. THE MAXIMUM ALLOWABLE HEIGHT FOR THE ROCK EMBANKMENT DETAIL IS 80'.

3. FOR ROCK EMBANKMENT, BENCH EXISTING SLOPE IN ACCORDANCE WITH SECTION 235 OF THE STANDARD SPECIFICATIONS, WHERE POSSIBLE.

4. REMOVE THE TEMPORARY REPAIR (RIP RAP AND BOULDERS) TO UNDISTURBED IN-SITU MATERIALS TO THE SATISFACTION OF THE ENGINEER BEFORE CONSTRUCTING ROCK EMBANKMENT.

5. IF SOFT/LOOSE MATERIALS EXIST AT THE TOE OF SLOPE, UNDERCUT THE MATERIALS TO THE SATISFACTION OF THE ENGINEER AND BACK FILL WITH SELECT MATERIAL APPROVED BY THE ENGINEER.

6. NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF SITE 1. THE INFORMATION PROVIDED FOR DESIGN WAS BASED ON VISUAL OBSERVATIONS AND APPROXIMATIONS AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

TYPE 2
GEOTEXTILE

SUBGRADE

5' (MAX) RIP RAP,
CLASS B (TYP)

CHOKE OFF TOP OF ROCK FILL
WITH 1 FT SELECT MATERIAL,
CLASS VI AND 1 FT RIP RAP,
CLASS A

SEE GEOTEXTILE
OVERLAP DETAIL

EXCAVATION LIMITS (SUBJECT TO VARY AFTER REMOVING TEMP REPAIR)

1.25:1 (H:V) OR FLATTER

RIP RAP, CLASS I
ROCK EMBANKMENT

TYPE 2 GEOTEXTILE

TOE OF ROCK EMBANKMENT,
EL. VARIES

DENSE SOILS/ WEATHERED ROCK/ ROCK

6:1 (H:V) OR
FLATTER

STREAM AT SLOPE BOTTOM


Temporary Repair
(Rip Rap & Boulders)

EXCAVATION LIMITS (SUBJECT TO VARY AFTER REMOVING TEMP REPAIR)

ROCK EMBANKMENT DETAIL
N.T.S.

GEOTEXTILE OVERLAP DETAIL
(PLAN VIEW) N.T.S.

SINCE



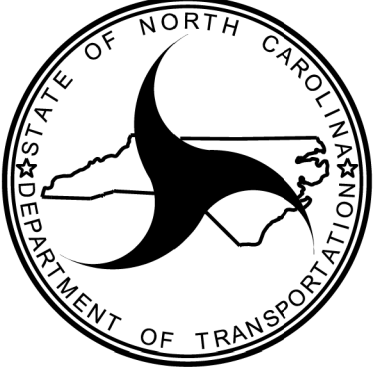
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Engineering Stability Since 1881

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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

HURRICANE HELENE EMERGENCY REPAIRS
ROCK EMBANKMENT
SITE 1-BALD ROCK RD.

REVISIONS

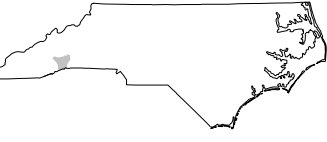
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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
HENDERSON COUNTY



HIGHWAY DIVISION 14

REVISIONS