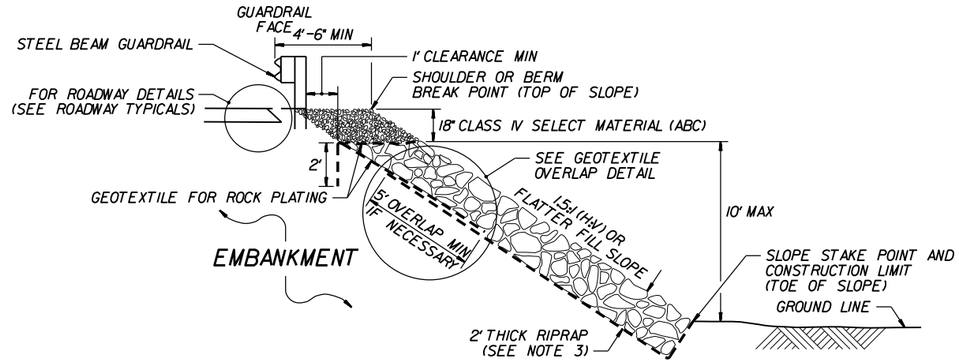
PROJECT REFERENCE NO.	SHEET NO.
B-5145	2G-1

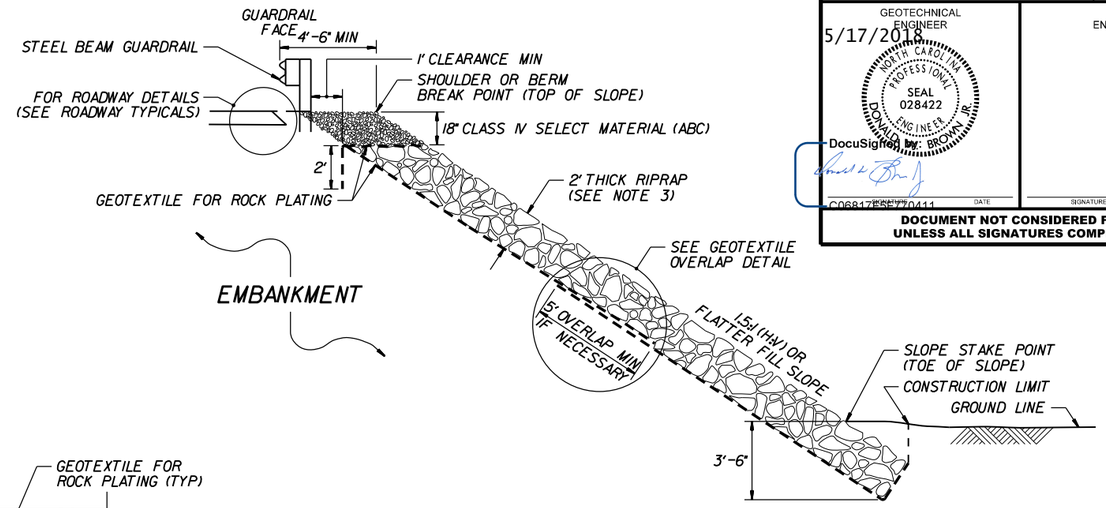
GEOTECHNICAL ENGINEER
5/17/2018
NORTH CAROLINA PROFESSIONAL SEAL 028422 ENGINEER DONALD W. BROWN JR.
DocuSigned by: BROWN
C06817EE70411
SIGNATURE DATE

ENGINEER
SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



ROCK PLATING DETAIL NO. 1 – TYPICAL SECTION



ROCK PLATING DETAIL NO. 2 – TYPICAL SECTION

ROCK PLATING

USE ROCK PLATING AT FOLLOWING LOCATIONS:

LINES	BEGINNING SLOPE	APPROX. STATION	ENDING SLOPE	APPROX. STATION	LOCATION LT/RT	ROCK PLATING DETAIL NO. 1/2/3	RIPRAP CLASS	SY
-L-	2:1	11+50	1.5:1	13+25	LT	1,3	NOTE 3	315
-L-	*	13+00	1.5:1	13+46	RT	1,3	NOTE 3	85

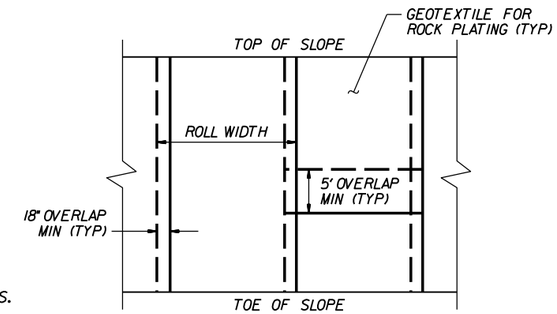
NOTES:
1.SEE ROADWAY PLANS AND SUMMARY SHEETS FOR ROCK PLATING LOCATIONS.

2.FOR STANDARD ROCK PLATING,SEE SECTION 275 OF THE STANARD SPECIFICATIONS.

3.USE CLASS 1,2 OR B RIPRAP FOR ROCK PLATING LOCATIONS.

**EXISTING SLOPE - NO MODIFICATION

ESTIMATED TOTAL QUANTITY OF ROCK PLATING = 400 SY



GEOTEXTILE OVERLAP DETAIL
(PLAN VIEW)

ROCK EMBANKMENTS

USE ROCK EMBANKMENTS AT FOLLOWING LOCATIONS:

-LINE-	APPROX. BEGINNING STATION	APPROX. ENDING STATION	LOCATION LT/RT
-L-	11+80	13+25	LT
-L-	13+20	13+46	LT

4.CONSTRUCT ROCK EMBANKMENTS TO THE ELEVATION SHOWN IN THE ROCK EMBANKMENTS & ROCK PLATING DETAIL NO.3,OR 2 FT ABOVE THE NORMAL WATER SURFACE. AND ACCORDING TO THE ROCK EMBANKMENTS SPECIAL PROVISION.

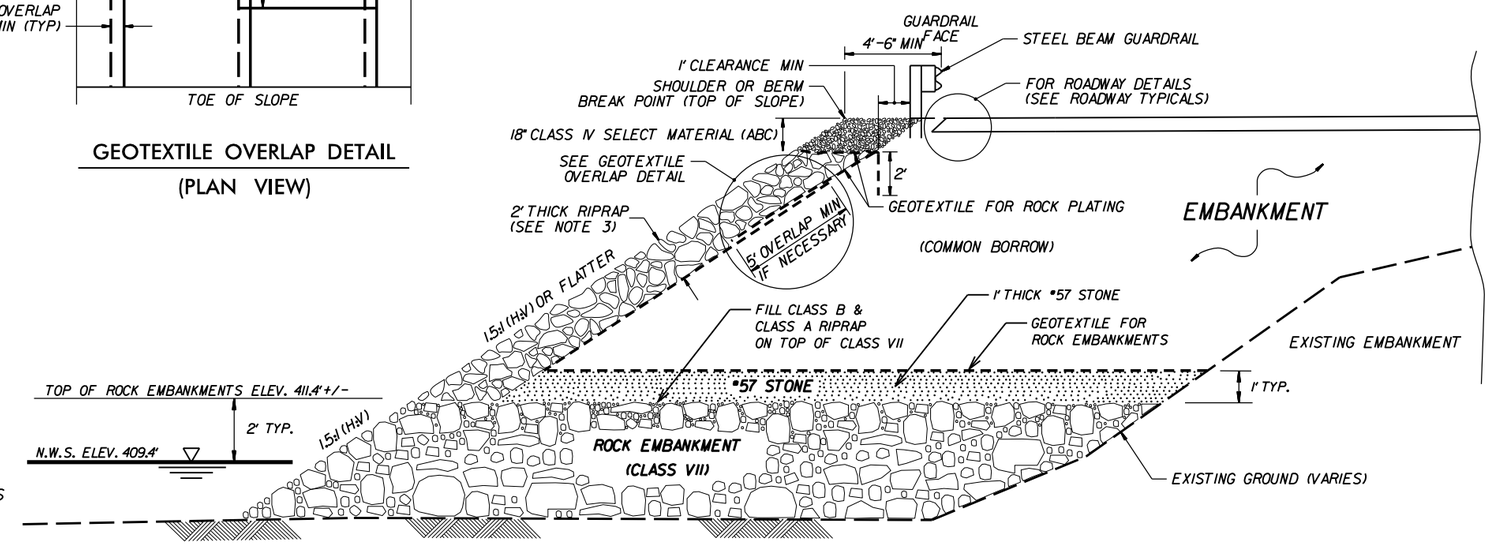
5.FILL VOIDS IN THE TOP OF ROCK EMBANKMENTS WITH CLASS B AND CLASS A RIP RAP.

6.PLACE #57 STONE (SELECT MATERIAL,CLASS VI) UP TO 1 FT.ABOVE ROCK EMBANKMENTS AS SHOWN IN THIS PLAN.

8.INSTALL GEOTEXTILE ON TOP OF NO.57 STONE IN ACCORDANCE WITH THE ARTICLE 270-3 OF THE STANDARD SPECIFICATIONS.

7.CONSTRUCT ROCK PLATING ABOVE ROCK EMBANKMENTS FROM ELEVATION SHOWN IN THE ROCK EMBANKMENTS & ROCK PLATING DETAIL NO.3 TO THE SHOULDER HINGE POINT AND ACCORDING TO THE SECTION 275 OF THE STANDARD SPECIFICATIONS.

8.FOR ROCK EMBANKMENTS,SEE ROCK EMBANKMENTS SPECIAL PROVISION.



ROCK EMBANKMENTS & ROCK PLATING DETAIL NO. 3 – TYPICAL SECTION

ESTIMATED MATERIAL QUANTITIES FOR ROCK EMBANKMENTS

ROCK EMBANKMENTS (SELECT MATERIAL,CLASS VII) = 550 TONS

RIP RAP CLASS A = 85 TONS

RIP RAP CLASS B = 85 TONS

#57 STONE (SELECT MATERIAL,CLASS VI) = 85 TONS

GEOTEXTILE FOR ROCK EMBANKMENTS = 225 SY

PREPARED BY: D.W. BROWN, PE	DATE: 05-2018
REVIEWED BY: CT. TANG, EI	DATE: 05-2018

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ROCK EMBANKMENTS & ROCK PLATING

NOTES & DETAILS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1	-	-	3	-	-
2			4		