PROJECT REFERENCE NO.	SHEET NO.
U-3615B	2G-1

GEOTECHNICAL ENGINEER

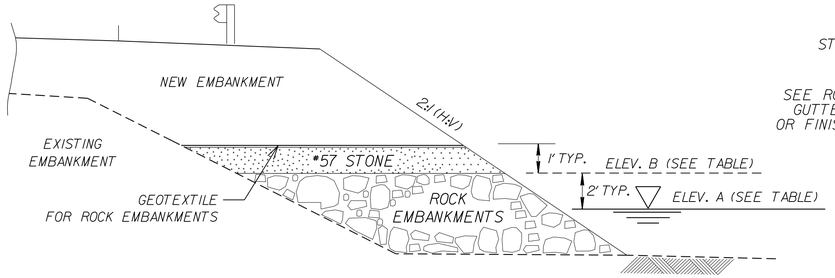
NORTH CAROLINA PROFESSIONAL SEAL 030943 ENGINEER THEIN TUN ZAN

DocuSigned by: Thein Tun Zan A43688C0BC19472...

SIGNATURE 11/24/2014 DATE

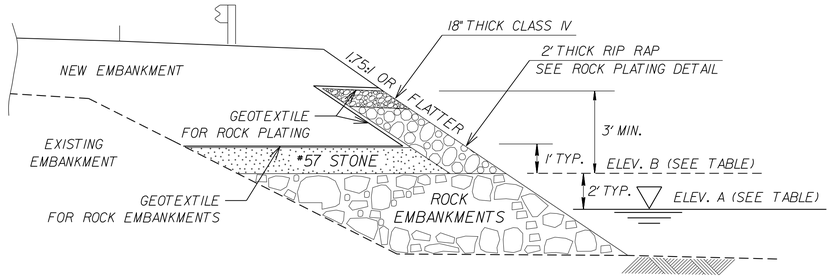
ENGINEER

SIGNATURE DATE



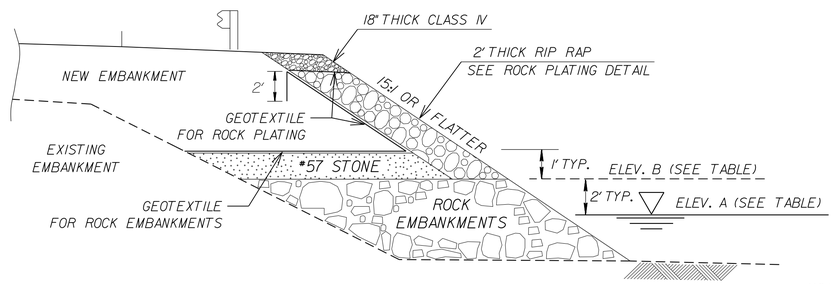
TYPICAL ROCK EMBANKMENT DETAIL

NOT TO SCALE



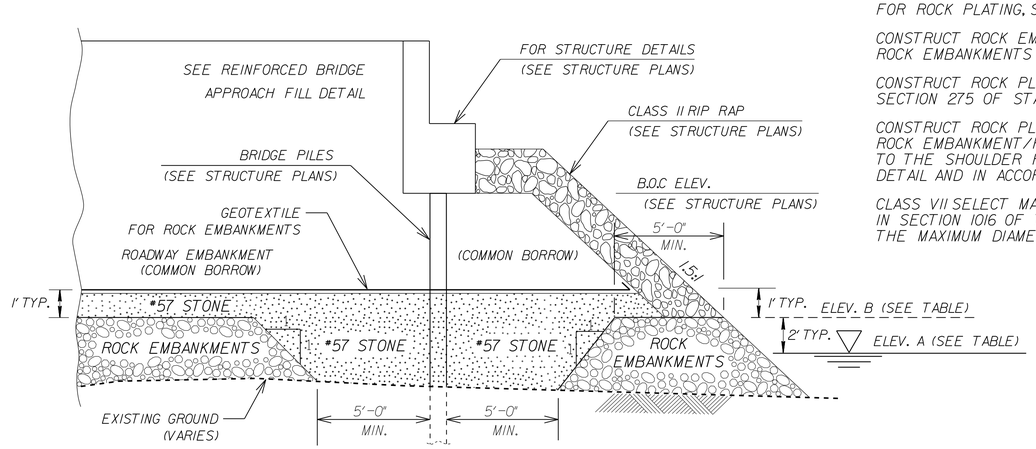
ROCK EMBANKMENT/ROCK PLATING DETAIL NO. 1

NOT TO SCALE



ROCK EMBANKMENT/ROCK PLATING DETAIL NO. 2

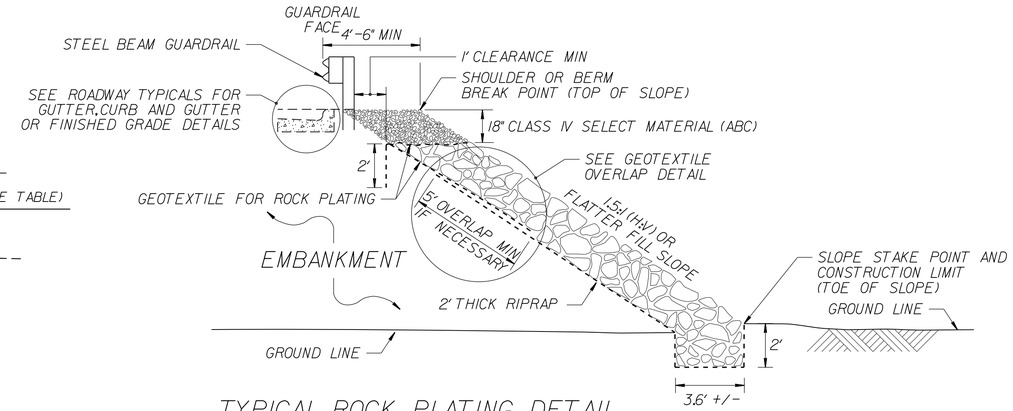
NOT TO SCALE



TYPICAL ROCK EMBANKMENT DETAIL AT END BENTS (ELEV. VIEW)

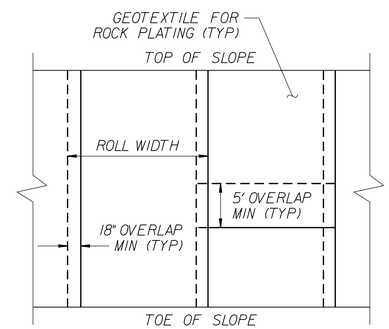
(AT BRIDGE STA. 237+28 -L- AND STA. 239+38 -L-, ALONG RIGHT SIDE OF -L-)

NOT TO SCALE



TYPICAL ROCK PLATING DETAIL

NOT TO SCALE



GEOTEXTILE OVERLAP DETAIL

(PLAN VIEW)

USE ROCK EMBANKMENT DETAIL FOR FOLLOWING LOCATIONS:

APPROX. BEGIN STA.	APPROX. END STA.	OFFSET
237+09 +/- -L-	237+55 +/- -L-	RIGHT
239+12 +/- -L-	240+16 +/- -L-	RIGHT

USE ROCK EMBANKMENT/ROCK PLATING DETAIL NO. 1 FOR FOLLOWING LOCATION:

APPROX. BEGIN STA.	APPROX. END STA.	OFFSET
232+00 +/- -L-	232+75 +/- -L-	LEFT

USE ROCK EMBANKMENT/ROCK PLATING DETAIL NO. 2 FOR FOLLOWING LOCATIONS:

APPROX. BEGIN STA.	APPROX. END STA.	OFFSET
232+75 +/- -L-	233+91 +/- -L-	LEFT
275+42+/- -L-	276+60 +/- -L-	RIGHT

USE ROCK PLATING DETAIL FOR FOLLOWING LOCATIONS:

APPROX. BEGIN STA.	APPROX. END STA.	OFFSET
274+25 +/- -L-	275+42 +/- -L-	RIGHT
276+60 +/- -L-	276+75 +/- -L-	RIGHT

ELEVATION TABLE FOR ROCK EMBANKMENT

LOCATION NO.	APPROX. BEGIN STA.	APPROX. END STA.	ELEV. A (N.W.S. EL.)	ELEV. B
1	232+00 +/- -L-	233+91 +/- -L-	802.3'	804.3'
2	237+09 +/- -L-	237+55 +/- -L-	802.3'	804.3'
3	239+12 +/- -L-	240+16 +/- -L-	802.3'	804.3'
4	275+42 +/- -L-	276+60 +/- -L-	828.6'	830.6'

NOTES

FOR ROCK EMBANKMENT, SEE ROCK EMBANKMENTS SPECIAL PROVISION.

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

CONSTRUCT ROCK EMBANKMENT AS SHOWN IN THIS PLAN AND IN ACCORDANCE WITH THE ROCK EMBANKMENTS SPECIAL PROVISION.

CONSTRUCT ROCK PLATING AS SHOWN IN THIS PLAN AND IN ACCORDANCE WITH THE SECTION 275 OF STANDARD SPECIFICATIONS.

CONSTRUCT ROCK PLATING ABOVE ROCK EMBANKMENT FROM ELEVATION SHOWN IN THE ROCK EMBANKMENT/ROCK PLATING DETAIL OR 2 FT. ABOVE THE NORMAL WATER SURFACE TO THE SHOULDER HINGE POINT OR AS NOTED IN THE ROCK EMBANKMENT/ROCK PLATING DETAIL AND IN ACCORDANCE WITH THE SECTION 275 OF STANDARD SPECIFICATIONS.

CLASS VII SELECT MATERIAL SHALL MEET THE GRADATION REQUIREMENTS AS INDICATED IN SECTION 1016 OF THE STANDARD SPECIFICATIONS WITH THE EXCEPTION THAT THE MAXIMUM DIAMETER OF THE ROCK DOES NOT EXCEED TWO FEET.

ESTIMATED MATERIAL QUANTITIES FOR ROCK EMBANKMENT

ROCK EMBANKMENTS (SELECT MATERIAL, CLASS VII) = 1,700 TONS

#57 STONE (SELECT MATERIAL, CLASS VI) = 1,270 TONS

GEOTEXTILE FOR ROCK EMBANKMENTS = 1,130 SY

ESTIMATED ROCK PLATING QUANTITY = 880 SY

PREPARED BY: T.T. ZAN	DS TTZ	DATE: 11/2014	
REVIEWED BY: J.R. BATTS	DS JRB	DATE: 11/2014	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

ROCK EMBANKMENT & ROCK PLATING DETAILS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1	T.T. ZAN	04/2014	3	T.T. ZAN	11/2014
2	T.T. ZAN	08/2014	4		