

## CIP FACE - TYPICAL SECTION

\*SEE CONCRETE DITCH BEHIND WALL DETAILS. \*\*SEE PLANS FOR FINISHED GRADE OR END BENT SLOPE DETAILS.

## NOTES:

FOR SOLDIER PILE RETAINING WALLS, SEE SOLDIER PILE RETAINING WALLS PROVISION.

A FENCE OR HANDRAIL IS REQUIRED ON TOP OF RETAINING WALL NO.4. SEE ROADWAY PLANS FOR FENCE OR HANDRAIL ATTACHMENT DETAILS.

USE A SOLDIER PILE RETAINING WALL WITH A CIP REINFORCED CONCRETE FACE FOR RETAINING WALL NO. 4.

A ROCK FACADE ARCHITECTURAL FINISH IS REQUIRED FOR THE CIP REINFORCED CONCRETE FACE FOR RETAINING WALL NO.4.

FOR THE ROCK FACADE ARCHITECTURAL FINISH, SEE THE ROCK WALL FACADE SPECIAL PROVISION.

BEFORE BEGINNING SOLDIER PILE WALL DESIGN FOR RETAINING WALL NO.4, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE)FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.

- DESIGN RETAINING WALL NO. FOR THE FOLLOWING: 1) H = DESIGN HEIGHT + WALL EMBEDMENT 2) DESIGN LIFE = 100 YEARS 3) MINIMUM WALL EMBEDMENT ELEVATION = 1 FT 4) MINIMUM PILE PENETRATION INTO DENSE RESIDUAL SOIL = 2 FT 5) IN-SITU ASSUMED MATERIAL PARAMETERS ABOVE ELEVATION 2126 FT: UNIT WEIGHT,  $\gamma$  = 120 PCF FRICTION ANGLE,  $\phi$  = 28 DEGREES COHESION, c = 0 PSF 6) IN-SITU ASSUMED MATERIAL PARAMETERS BELOW ELEVATION 2126 FT: UNIT WEIGHT,  $\gamma$  = 105 PCF FRICTION ANGLE,  $\phi$  = 0 DEGREES COHESION, c = 400 PSF 7) IN-SITU ASSUMED MATERIAL PARAMETERS BELOW ELEVATION 2118 FT: UNIT WEIGHT,  $\gamma$  = 125 PCF FRICTION ANGLE,  $\phi$  = 32 DEGREES COHESION, c = 0 PSF



PREPARED BY: G. F. THILL	DATE: 10/28/19
REVIEWED BY: A. F. RIGGS	DATE: 10/28/19

PROJECT NO.: <u>44984 (R-5799)</u> TRANSYLVANIA_COUNT					
	STATION: <u>11+69.81 - Y5- TO 29+36.72 - L-</u> SHEET 2 OF 2				
ORTH CAROLINA NT OF TRANSPORTATION SION OF HIGHWAYS	SOLDIER PILE WALL TYPICAL SECTION AND NOTES				
OTECHNICAL NEERING UNIT	NO. BY 1 JPM/GFT 2 SWG/EJK	<b>REVIS</b> DATE NO. 6/15/20 3 7/10/23 4	BY	DATE	SHEET NO. W-7
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	GEOTECHNICAL ENGINEER	
$\left( \right)$	Docusioned By Scott Gutows	sk
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	7/11/2023	
	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	