

SOLDIER PILE WALL WITH PRECAST PANEL - TYPICAL SECTIONS

AT THE CONTRACTOR'S OPTION, CONNECT COPING TO PANELS WITH DOWELS OR EXTEND COPING DOWN BACK OF PANELS AND PILES. **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.

- FOR ANCHORED RETAINING WALLS, SEE ANCHORED RETAINING WALLS PROVISION.
- FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.

FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS.

DRILLED-IN H-PILES ARE REQUIRED FOR RETAINING WALL NO.1.

AT THE CONTRACTOR'S OPTION, USE DRIVEN H-PILES FOR RETAINING WALLS NO. 2 AND 3.

BEFORE BEGINNING WALL DESIGN FOR RETAINING WALL NO.1,2 &3, 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 WALLS NO.1 AS ANCHORED RETAINING WALL.

DESIGN RETAINING WALLS NO. 2 AND 3 AS SOLDIER PILE RETAINING WALLS.

DESIGN RETAINING WALLS NO. 1 AND 2 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

AT THE CONTRACTOR'S OPTION, USE A TEMPORARY SLOPE INSTEAD OF TEMPORARY SUPPORT OF EXCAVATIONS FOR RETAINING WALLS NO.1, 2 AND 3.

WALL 1 - 10 + 00 to 11 + 25					
DEPTH BELOW TOP OF WALL	UNIT WEIGHT, γ (PCF)	FRICTION ANGLE, ф	COHESION, C	ROCK MASS SHEAR STRENGTH SM (PSF)	
0' TO 14'	120	30	0	-	
14' TO 29'	130	34	0	-	
29' +	-	_	-	3,000	

WALL $1 - 11 + 25$ to $12 + 25$						
DEPTH BELOW TOP OF WALL	UNIT WEIGHT, γ (PCF)	FRICTION ANGLE, ф	COHESION, C	ROCK MASS SHEAR STRENGTH SM (PSF)		
0' TO 24'	120	30	0	-		
24' TO 29'	130	34	0	-		
29' +	-	_	_	3,000		

	WALL $1 - 12 + 25$ to $13 + 64.13$						
	DEPTH BELOW TOP OF WALL	$UNIT\ \ WEIGHT, \gamma \\ (PCF)$	FRICTION ANGLE, ф	COHESION, C	ROCK MASS SHEAR STRENGTH SM (PSF)		
[$FULL\ DEPTH$	120	30	0	-		

"TEMPORARY SHORING" MAY BE REQUIRED FOR RETAINING WALLS NO.1 AND 2 IN ACCORDANCE WITH THE TEMPORARY SHORING PROVISION. SEE TRAFFIC CONTROL PLANS.

$W\!ALL$ 2					
DEPTH BELOW TOP OF WALL	UNIT WEIGHT, γ (PCF)	FRICTION ANGLE, ф	COHESION, C	ROCK MASS SHEAR STRENGTH SM (PSF)	
FULL DEPTH	120	30	0	-	
FULL DEPTH	120	30	U	-	

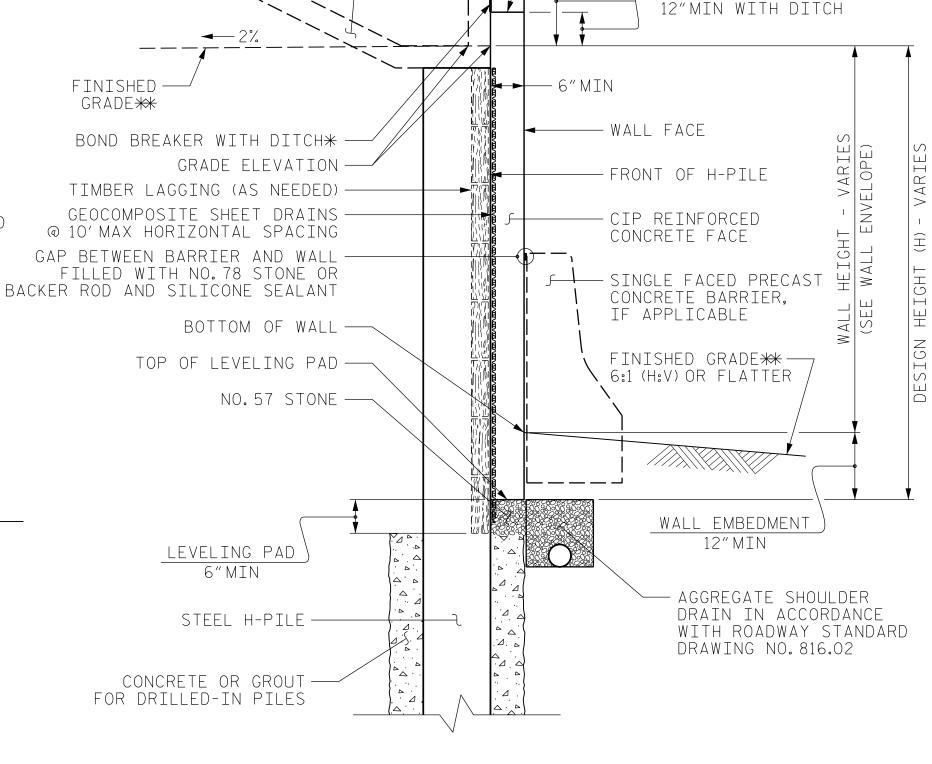
$WALL \ 3 - 10 + 00 \ to \ 11 + 50$					
DEPTH BELOW TOP OF WALL	UNIT WEIGHT, γ (PCF)	FRICTION ANGLE, ф	COHESION, C	ROCK MASS SHEAR STRENGTH SM (PSF)	
0' TO 7'	120	30	0	-	
7'+	_	_	-	3,000	

$WALL \ 3 - 11 + 50 \ to \ 14 + 00$				
DEPTH BELOW TOP OF WALL	UNIT WEIGHT, γ (PCF)	FRICTION ANGLE, ф	COHESION, C	ROCK MASS SHEAR STRENGTH SM (PSF)
FULL DEPTH	120	30	0	-

WALL 3 - 14+00 to 14+50					
DEPTH BELOW TOP OF WALL	UNIT WEIGHT, γ (PCF)	FRICTION ANGLE, ф	COHESION, C	ROCK MASS SHEAR STRENGTH SM (PSF)	
0' TO 10'	120	30	0	_	
10'+	_	_	_	3,000	

$WALL \ 3 - 14 + 50 \ to \ 17 + 48$				
DEPTH BELOW	UNIT WEIGHT, γ	FRICTION ANGLE, ϕ	COHESION, C	ROCK MASS SHEAR STRENGTH
TOP OF WALL	(PCF)	THIOTION THIOLES, W	COMEDION, C	SM (PSF)
FULL DEPTH	120	30	0	_





GEOTECHNICAL ENGINEER

36283

-CONCRETE DITCH AND IF APPLICABLE,

- TOP OF WALL

CONCRETE SLOPE PROTECTION*

DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

(SEE NOTE FOR FENCE OR HANDRAIL

EXTENSION
6"MIN WITHOUT DITCH

ON TOP OF WALL, IF APPLICABLE)

ENGINEER

SOLDIER PILE WALL WITH CIP FACE - TYPICAL SECTION

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

PROJECT NO.:

D.: <u>U-5312</u>

STATION: SEE SHEET W-1 AND W-2

SHEET 3 OF 4 WALL ID RW-1, 2 AND

DEPARTMENT OF TRANSPORTATION | DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

NORTH CAROLINA

FINISHED GRADE OR —

END BENT SLOPE**

STANDARD DETAIL NO. 816.02

WILKES

SOLDIER PILE WALL
WITH OR WITHOUT
BACKSLOPES
TYPICALS AND NOTES

DATE: MM-DD-YY

YY W-

SHEET NO.

COUNTY