

FULLY EMBEDDED SOLDIER PILE WALL WITH 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.

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

A FENCE OR HANDRAIL (IF APPLICABLE) IS REQUIRED ON TOP OF RETAINING WALL NO. 2. SEE ROADWAY PLANS FOR FENCE OR HANDRAIL ATTACHMENT DETAILS.

DRILLED-IN H-PILES ARE REQUIRED FOR RETAINING WALL NO. 2.

USE A SOLDIER PILE RETAINING WALL WITH A CIP REINFORCED CONCRETE FACE FOR RETAINING WALL

A NATURAL STONE ARCHITECTURAL FINISH IS REQUIRED FOR THE CIP REINFORCED CONCRETE FACE FOR RETAINING WALL NO. 2. THE NATURAL STONE FINISH MUST BE IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISION AND APPROVED BY NCDOT.

BEFORE BEGINNING SOLDIER PILE WALL DESIGN FOR RETAINING WALL NO. 2, 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. 2 FOR THE FOLLOWING:

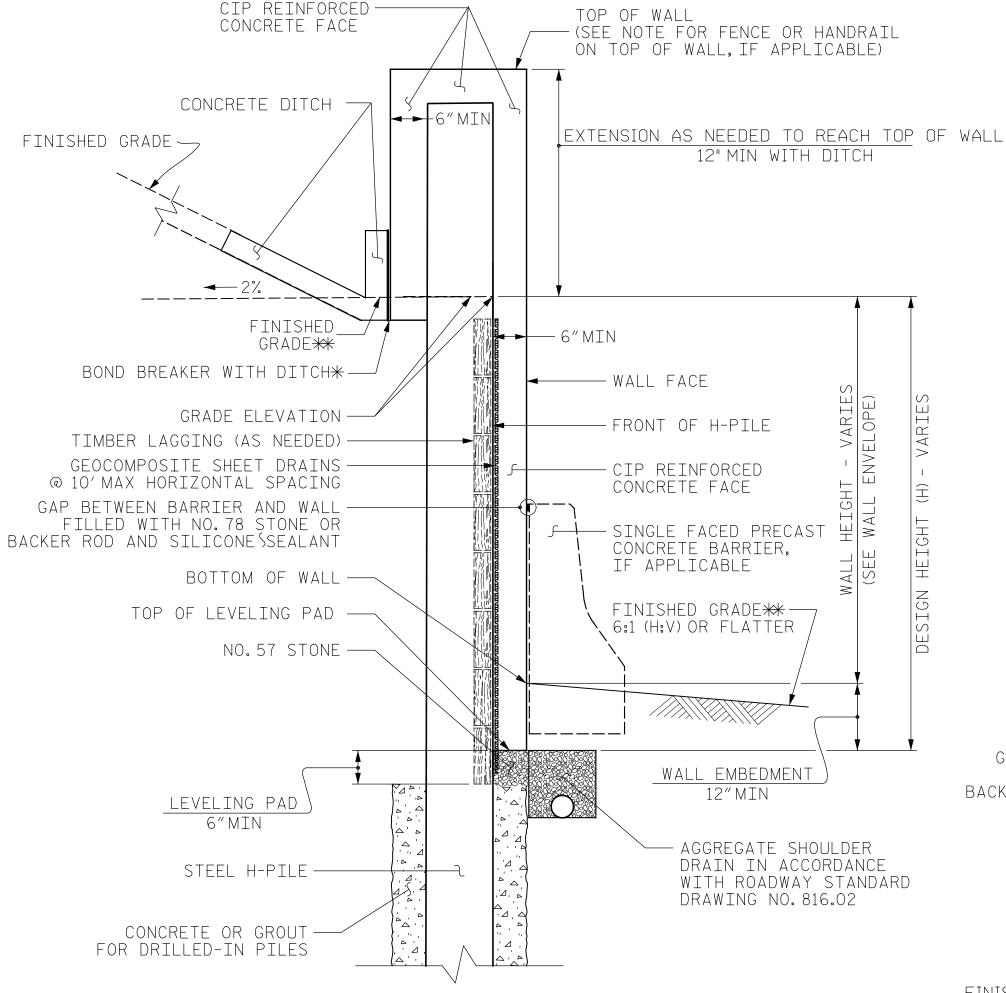
1) DESIGN HEIGHT (H) = WALL HEIGHT + WALL EMBEDMENT

2) DESIGN LIFE = 100 YEARS

3) MINIMUM WALL EMBEDMENT DEPTH = 1 FT 4) DESIGN WALL SECTION ABOVE GRADE ELEVATION FOR WIND PRESSURE OF 27 PSF

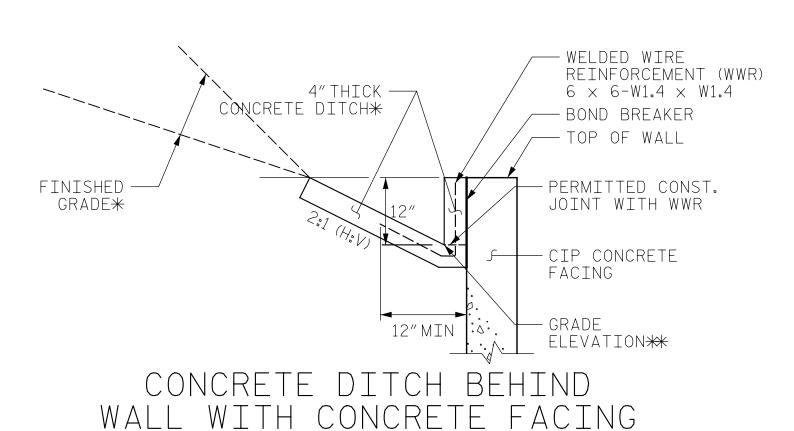
Retaining Wall No. 2									
-W2- 10+00 to 11+50					-W2- 11+50 to 12+79.29				
	γ(pcf)	φ' (°)	c' (psf)	1 [γ(pcf)	φ'(゚)	c' (psf)	
Above EL. 454 ft	115	30	0	П	Above EL. 443 ft	115	30	0	
Below EL. 454 ft	125	36	0	Ц	Below EL. 443 ft	125	36	0	
				Н					
Notes:									
1 - Design Groundwater Elevation 444 feet.									
2 - A portion of W	all #2 exte	nds above	finished g	rac	de.				

DATE: PREPARED BY: DATE: REVIEWED BY:

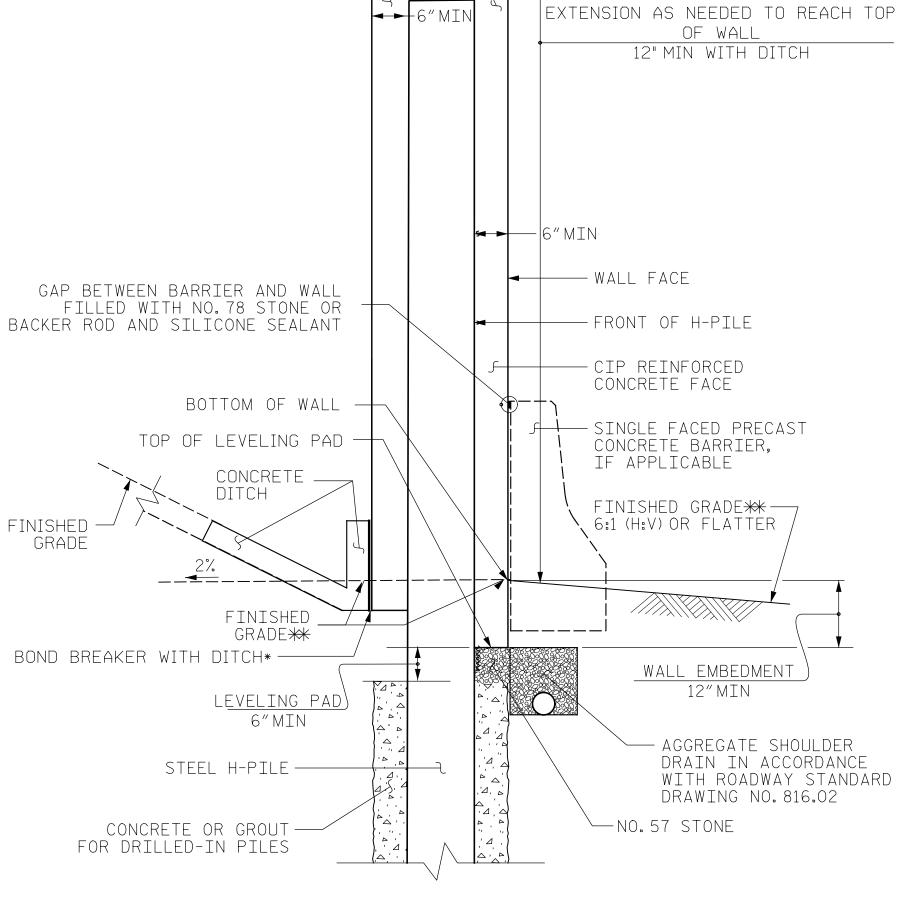


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*SEE CONCRETE DITCH BEHIND WALL DETAILS. **SEE PLANS FOR FINISHED GRADE OR END BENT SLOPE DETAILS.



*SEE ROADWAY PLANS FOR CONCRETE DITCH AND FINISHED GRADE DETAILS. **SEE WALL ENVELOPE FOR GRADE ELEVATIONS.



GEOTECHNICAL

ENGINEER

037422

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

(SEE NOTE FOR FENCE OR HANDRAIL

ON TOP OF WALL, IF APPLICABLE)

TOP OF WALL

Shane Johnson

CIP REINFORCED

CONCRETE FACE

ENGINEER

PROJECT NO.: R-5930B

CHATHAM COUNTY

WALL ID RW-2

STATION: -W2- 10+00.00 TO 12+79.29

SHEET 4 OF 4

ABOVE GRADE SOLDIER PILE WALL WITH

CIP FACE - TYPICAL SECTION

*SEE CONCRETE DITCH BEHIND WALL DETAILS.

**SEE PLANS FOR FINISHED GRADE OR END BENT SLOPE DETAILS.

RETAINING WALL NO. 2 SOLDIER PILE WALL WITH OR WITHOUT BACK SLOPE -**TYPICALS & NOTES**

REVISIONS DATE NO. DATE NO. 3 | 4

INFRASTRUCTURE CONSULTING & ENGINEERING

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

GEOTECHNICAL ENGINEERING UNIT