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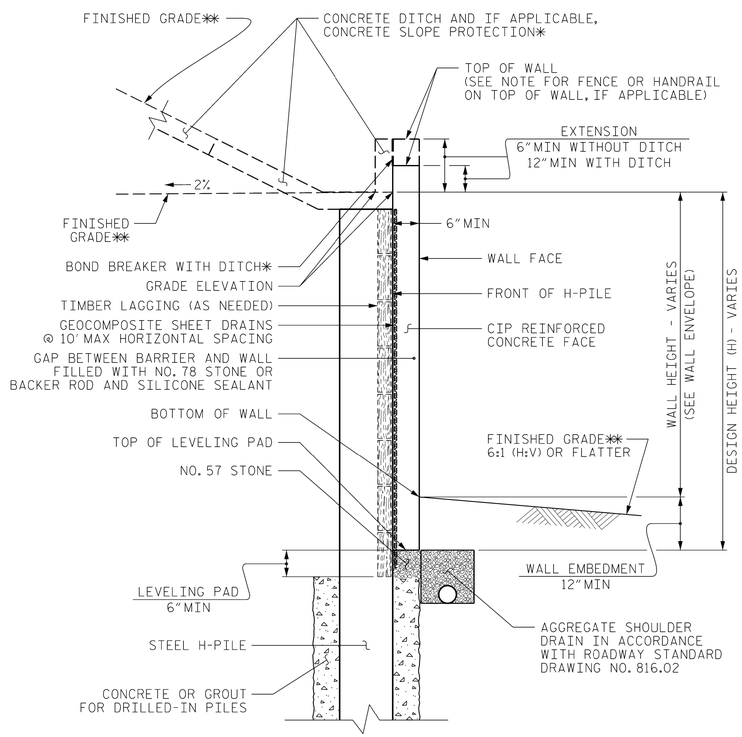

SOLDIER PILE WALL WITH CIP FACE - TYPICAL SECTION

*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.

A FENCE IS REQUIRED ON TOP OF RETAINING WALL NO. W701. SEE ROADWAY PLANS FOR FENCE ATTACHMENT DETAILS.

AT THE CONTRACTOR'S OPTION, USE DRIVEN H-PILES FOR RETAINING WALL NO. W701.

USE A SOLDIER PILE RETAINING WALL WITH A CIP REINFORCED CONCRETE FACE FOR RETAINING WALL NO. W701.

A DRYSTACK ARCHITECTURAL FINISH IS REQUIRED FOR CIP REINFORCED CONCRETE FACE FOR RETAINING WALL NO. W701.

BEFORE BEGINNING SOLDIER PILE WALL DESIGN FOR RETAINING WALL NO. W701, 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. W701 FOR THE FOLLOWING:
1) DESIGN HEIGHT (H) = WALL HEIGHT + WALL EMBEDMENT
2) DESIGN LIFE = 100 YEARS
3) MINIMUM WALL EMBEDMENT DEPTH = 1.0 FT
4) IN-SITU ASSUMED MATERIAL PARAMETERS:
   UNIT WEIGHT, γ = 120 PCF
   FRICTION ANGLE, ϕ = 30 DEGREES
   COHESION, c = 0 PSF

GEOTECHNICAL ENGINEER	ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 048207 ENGINEER STEPHEN C CROCKETT	
DocuSigned by: Stephen Crockett 5/14/2024 C6CA5FED48E0435... SIGNATURE DATE	SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT NO.: I-2513AA/AB
BUNCOMBE COUNTY
STATION: VARIES
SHEET 11 OF 11 WALL ID W701

PREPARED BY: S. CROCKETT	DATE: 9/5/23
REVIEWED BY: J. HAMM	DATE: 9/7/23

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

SOLDIER PILE WALL TYPICAL AND NOTES FOR RETAINING WALL NO. W701

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W-11
2			4			