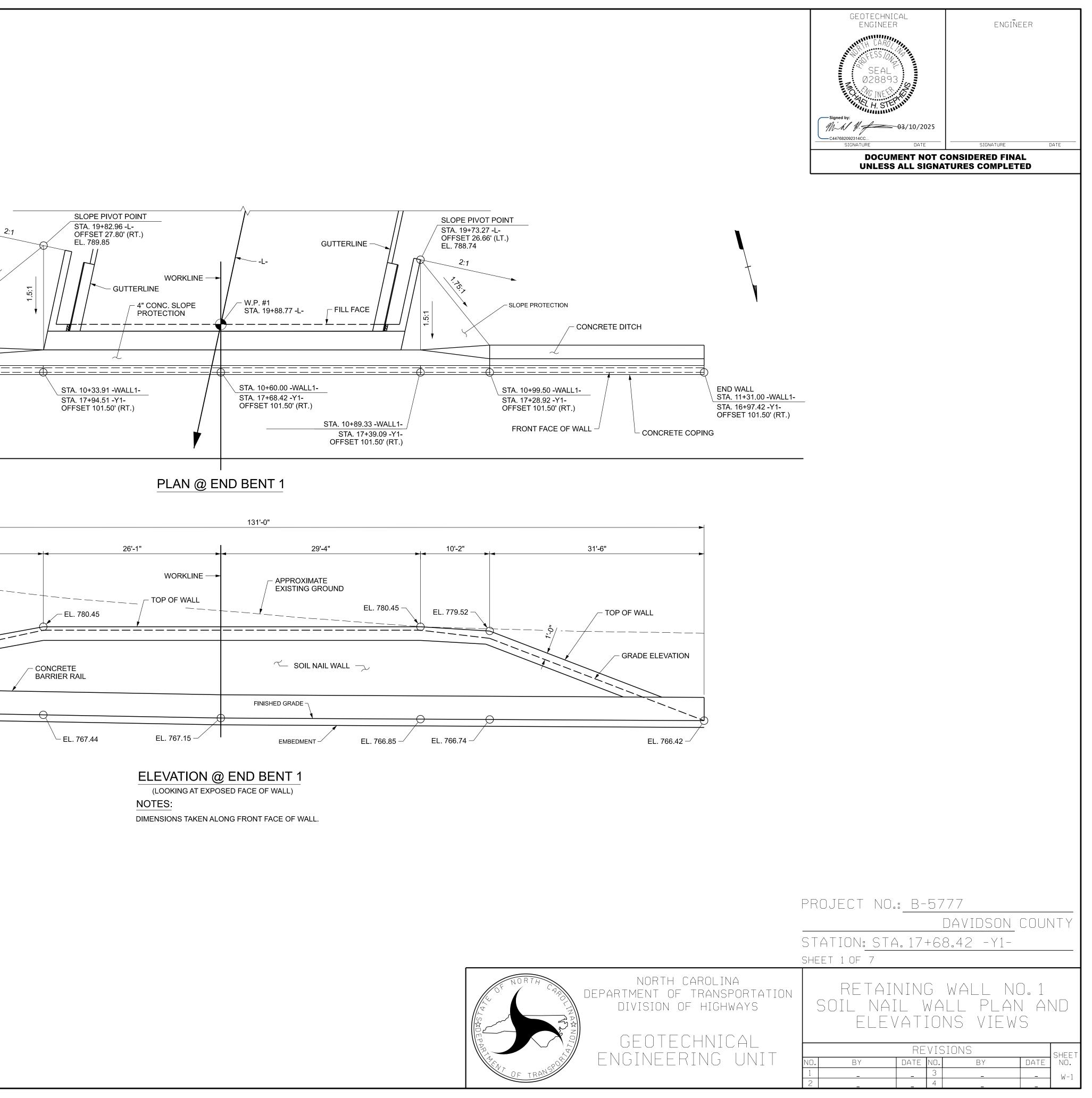
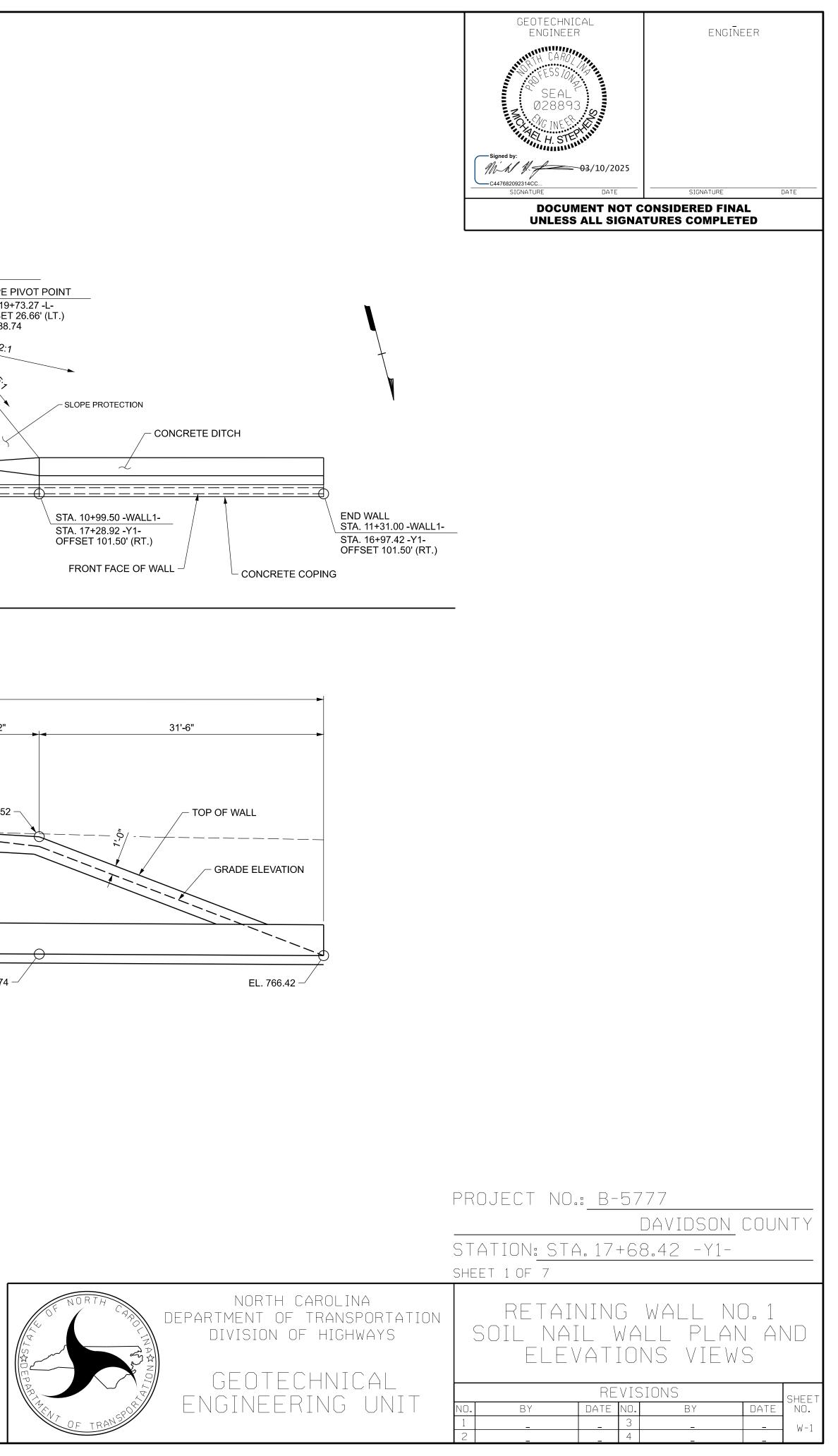
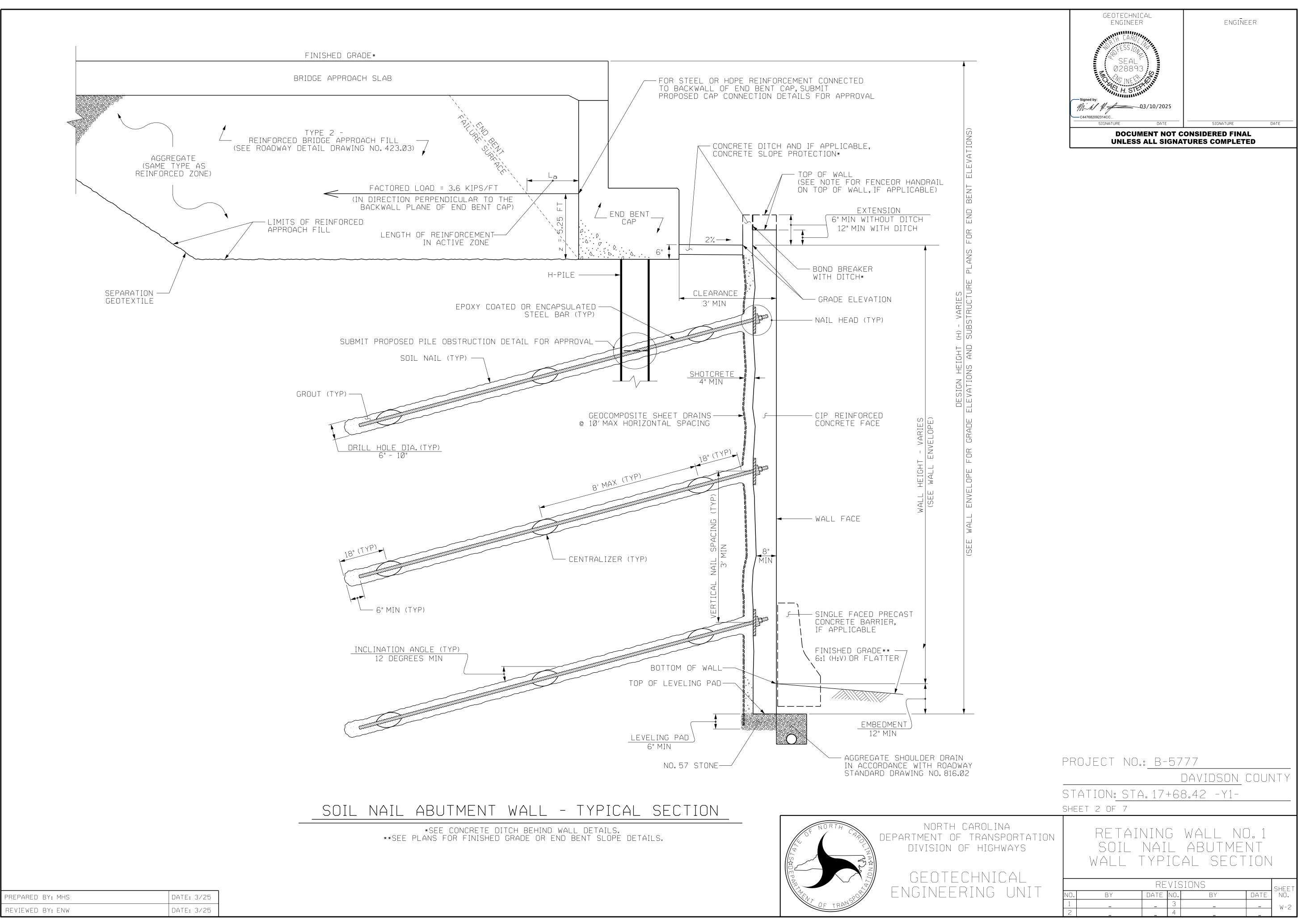
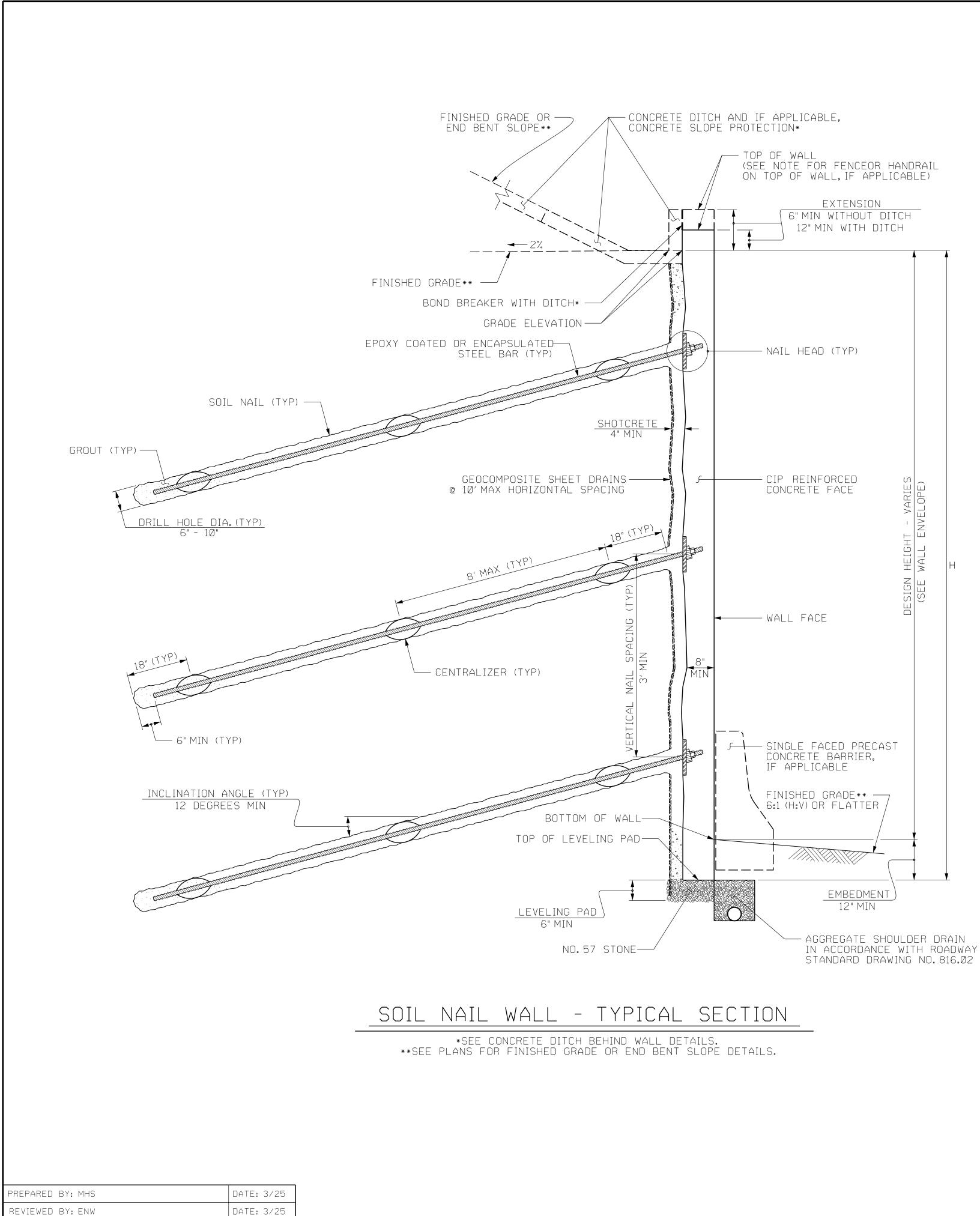
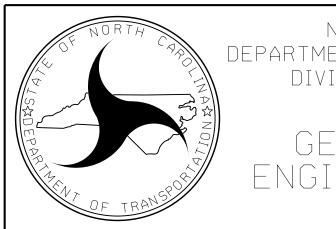
				•
				1.75
		CONCRE		ROTECTION
	STA. 10+00.00	28.42 -Y1-	STA. 10+15.83 -WALL1 STA. 18+12.59 -Y1 OFFSET 101.50' (RT.	- <u></u> 9 0
				<b>Y</b>
			15'-10"	
			GRADE ELEVATION	EL. 776.54
		(		Q
			EL. 767.84	EL. 767.65
ESTIMATED				
RETAINING SOIL NA Wall NO.	AIL RETAINING W (SQUARE FEET)	ALLS	SOIL NAIL RIFICATION TEST	SOIL NAIL S PROOF TEST











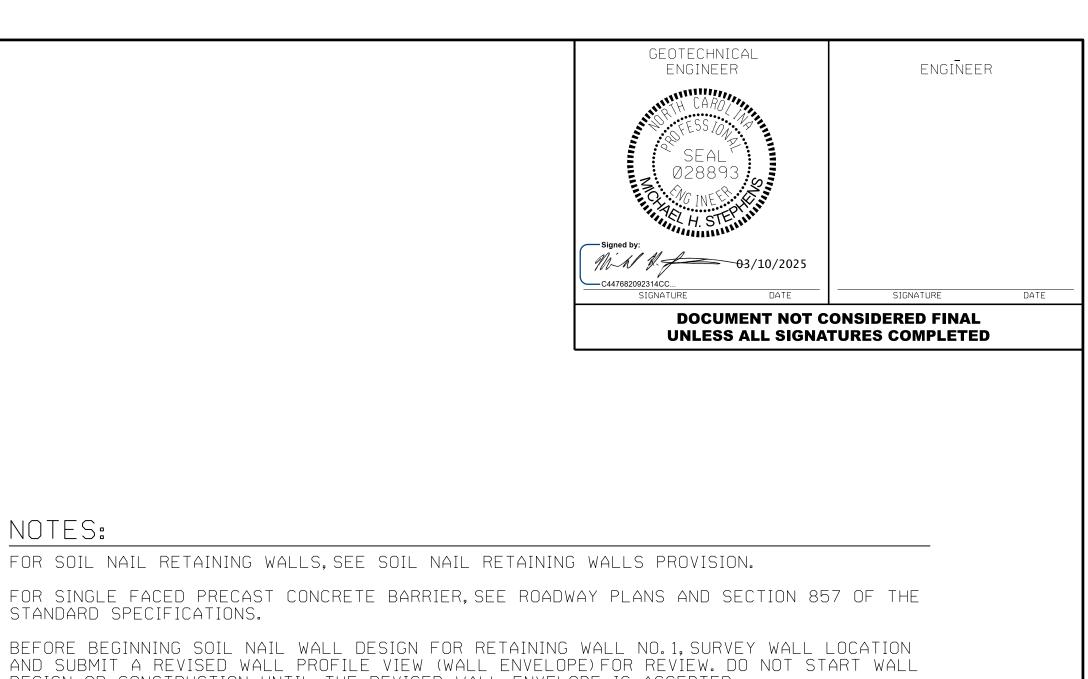
NOTES:

FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS. BEFORE BEGINNING SOIL NAIL WALL DESIGN FOR RETAINING WALL NO.1, 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.1 FOR THE FOLLOWING: 1) H = DESIGN HEIGHT + EMBEDMENT 2) DESIGN LIFE = 100 YEARS 3) MINIMUM EMBEDMENT ELEVATION = 1.0 FT 4) IN-SITU ASSUMED MATERIAL PARAMETERS: UNIT WEIGHT,  $\gamma = 120$  PCF FRICTION ANGLE,  $\phi$  = 30 degrees COHESION, c = Ø PSF DESIGN RETAINING WALL NO.1 FOR A LIVE LOAD (TRAFFIC) SURCHARGE. FOUNDATIONS FOR END BENT NO. 1 LOCATED AT STATION STA. 19+88.77 -L- WILL INTERFERE WITH SOIL NAILS FOR RETAINING WALL NO.1. SEE "FOUNDATION LAYOUT" SHEET FOR FOUNDATION

LOCATIONS.

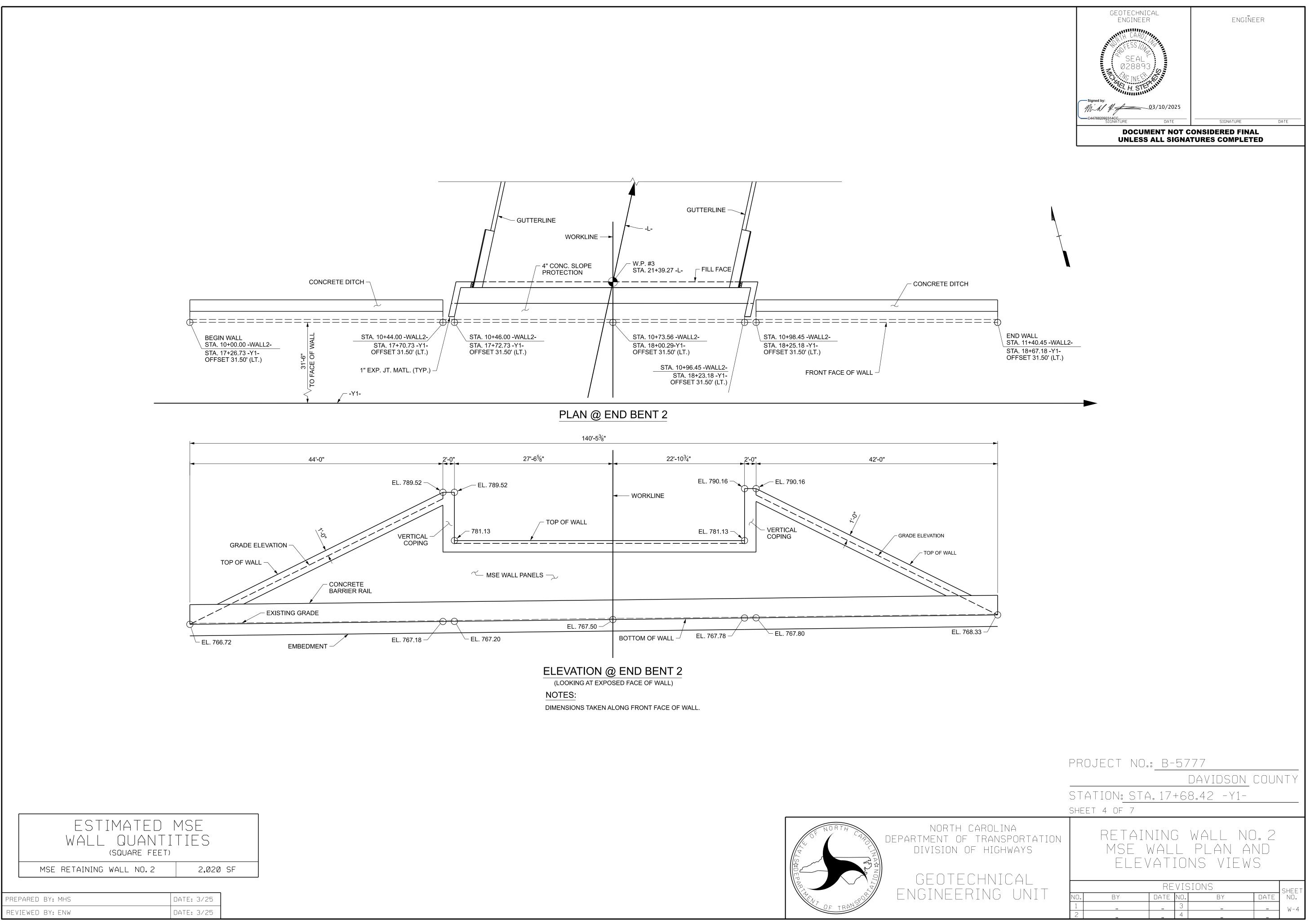
"TEMPORARY SHORING" IS REQUIRED FOR RETAINING WALL NO.1 IN ACCORDANCE WITH THE TEMPORARY SHORING PROVISION. SEE TRAFFIC CONTROL PLANS.

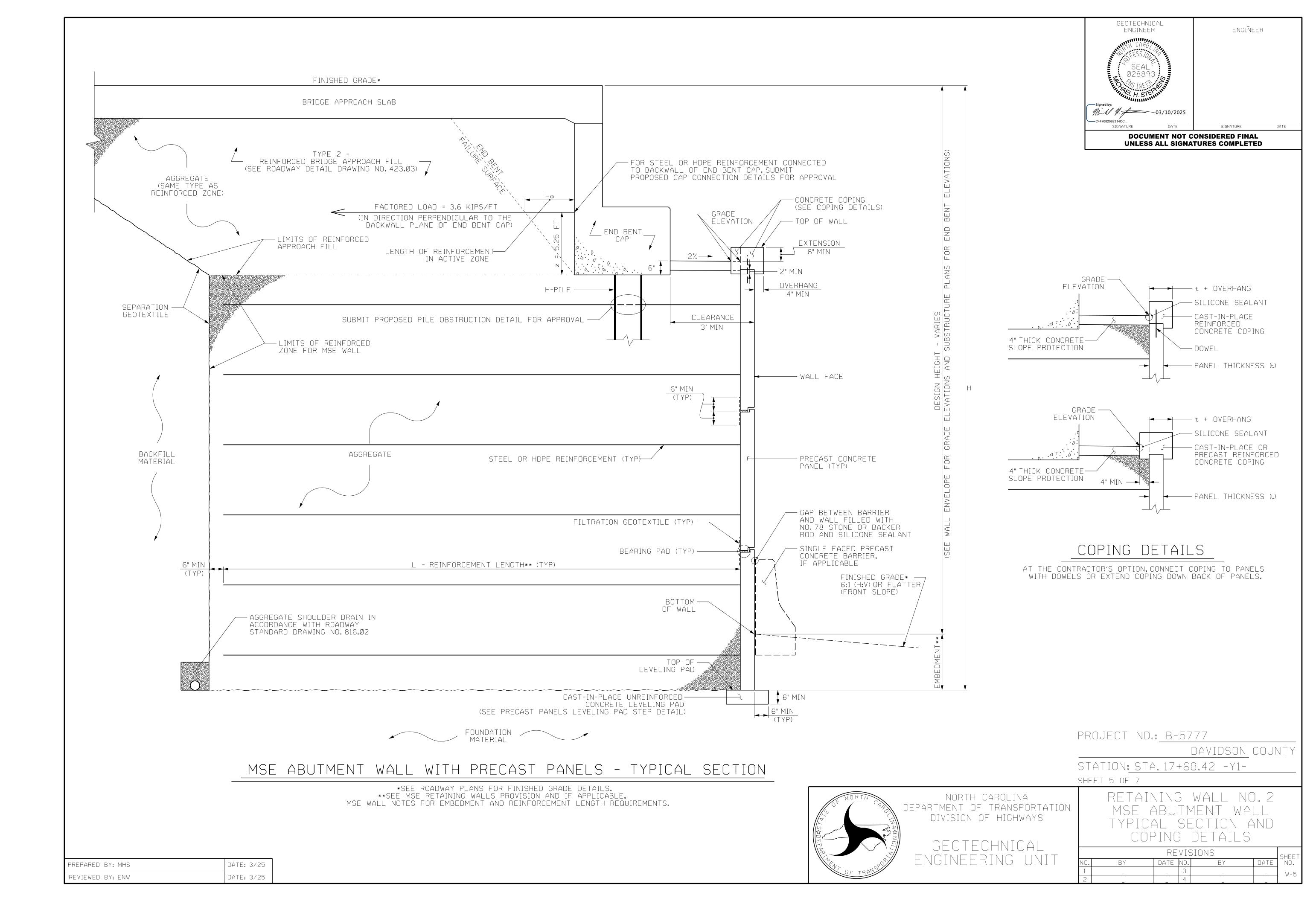
DESIGN REINFORCEMENT CONNECTED TO END BENT CAPS FOR FACTORED LOAD AND LENGTH OF REINFORCEMENT IN ACTIVE ZONE (La) SHOWN. CAST REINFORCEMENT OR CONNECTORS INTO CAP BACKWALL FOR END BENT NO.1 LOCATED AT STATION STA. 19+88.77 -L-. MAINTAIN A CLEARANCE OF AT LEAST 3" BETWEEN REINFORCEMENT OR CONNECTORS AND REINFORCING STEEL IN CAP.

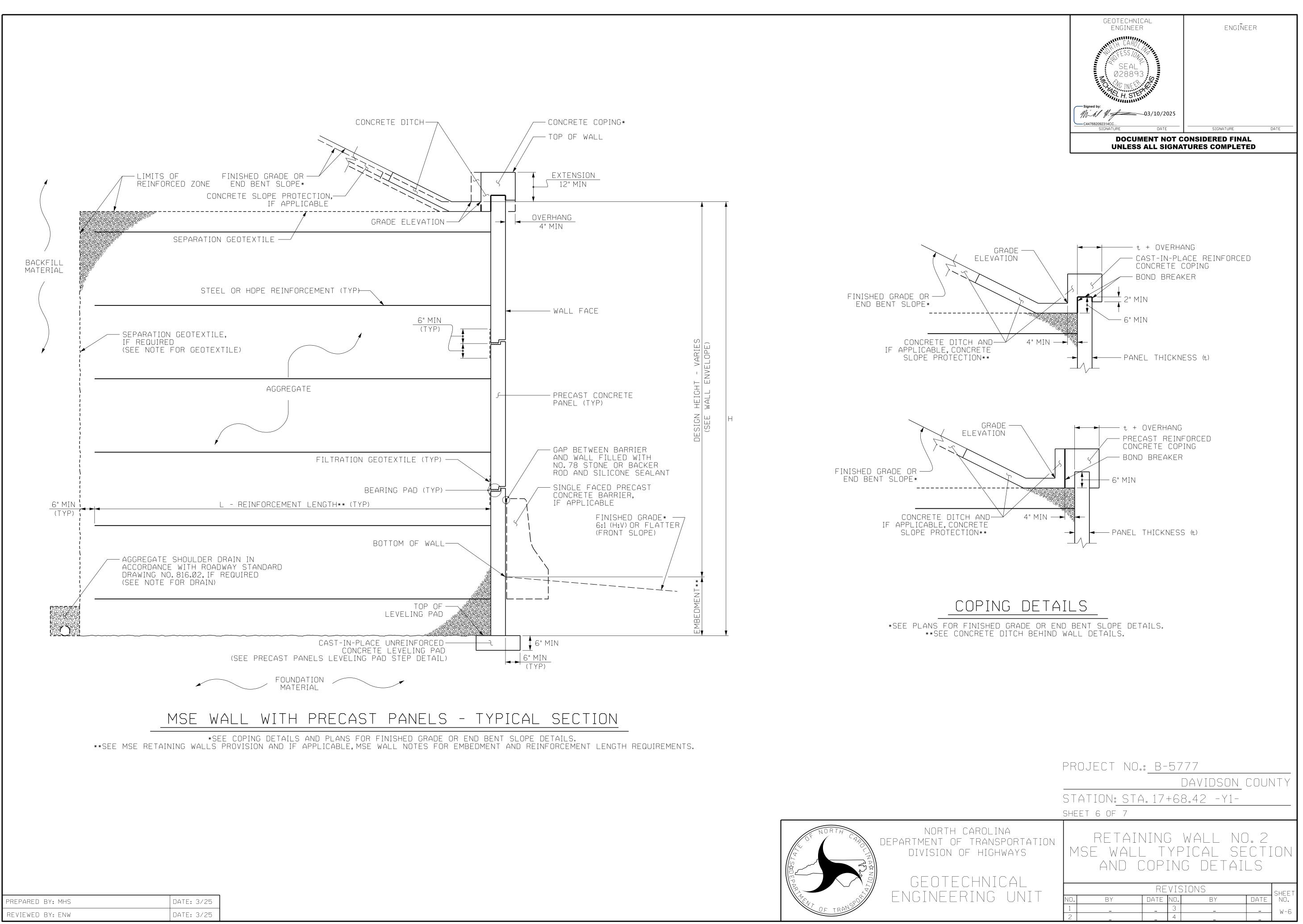


PROJECT NO.: B-5777

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	STATION: STA. 17+68.42 -Y1-						
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FOTECHNICAL							
				SHEET			
INLLIVINO UNII	NO.	BY	DATE		BY	DATE	NO.
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## NOTES:

FOR MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS, SEE MECHANICALLY STABILIZED EARTH RETAINING WALLS PROVISION. FOR TYPE 2 REINFORCED BRIDGE APPROACH FILL, SEE BRIDGE APPROACH FILLS PROVISION AND ROADWAY DETAIL DRAWING NO. 423.03. FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS. AT THE CONTRACTOR'S OPTION, USE FINE AGGREGATE IN THE REINFORCED ZONE OF RETAINING WALL NO. 2. A SEPARATION GEOTEXTILE IS REQUIRED AT THE BACK OF THE REINFORCED ZONE FOR RETAINING WALL NO.2. A DRAIN IS REQUIRED FOR RETAINING WALL NO.2.

BEFORE BEGINNING MSE 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) H = DESIGN HEIGHT + EMBEDMENT

2) DESIGN LIFE = 100 YEARS 3) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 5,000 PSF 4) MINIMUM REINFORCEMENT LENGTH (L) = 0.8H OR 6 FT, WHICHEVER IS LONGER 5) MINIMUM EMBEDMENT ELEVATION = 2 FT 6) REINFORCED ZONE AGGREGATE PARAMETERS:

AGGREGATE TYPE*	UNIT WEIGHT (y) PCF	FRICTION ANGLE ( <del>q)</del> Degrees	COHESION (c) PSF		
COARSE	11Ø	38	Ø		
FINE	115	34	Ø		
*SEE MSE RETAINING WATERIAL REQUIREMENT		R COARSE AND FINE A	GGREGATE		

7) INI-CITH ACCHMEN MATERIAL PARAMETERS.

/) IN-SITU ASSUMED MATERIAL PARAMETERS:				
MATERIAL TYPE	UNIT WEIGHT (y) PCF	FRICTION ANGLE ( <del>q)</del> Degrees	COHESION (c) PSF	
BACKFILL	12Ø	3Ø	Ø	
FOUNDATION	120	30	Ø	

DESIGN RETAINING WALL NO.2 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

DESIGN REINFORCEMENT CONNECTED TO END BENT CAPS FOR FACTORED LOAD AND LENGTH OF REINFORCEMENT IN ACTIVE ZONE (La) SHOWN. CAST REINFORCEMENT OR CONNECTORS INTO CAP BACKWALL FOR END BENT NO.2 LOCATED AT STATION STA.21+39.27 -L-. MAINTAIN A CLEARANCE OF AT LEAST 3" BETWEEN REINFORCEMENT OR CONNECTORS AND REINFORCING STEEL IN CAP.

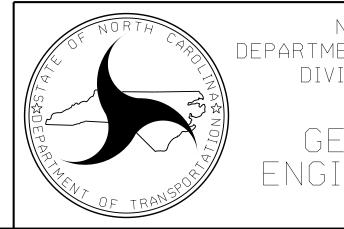
FOUNDATIONS FOR END BENT NO. 2 LOCATED AT STATION STA. 21+39.27 -L- WILL INTERFERE WITH REINFORCEMENT FOR RETAINING WALL NO. 2. SEE "FOUNDATION LAYOUT" SHEET FOR FOUNDATION LOCATIONS.

DO NOT PLACE LEVELING PAD CONCRETE, AGGREGATE OR REINFORCEMENT FOR RETAINING WALL NO. 2 UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED. "TEMPORARY SHORING" IS REQUIRED FOR RETAINING WALL NO.2 IN ACCORDANCE WITH THE TEMPORARY SHORING PROVISION. SEE TRAFFIC CONTROL PLANS.

PREPARED BY: MHS	DATE: 3/25
REVIEWED BY: ENW	DATE: 3/25



CONCRE



PRECAST CONCRETE	PANEL (TYP) REINFORCEMENT
CIP UNREINFORCED	STEP TOP OF LEVELING PAD SO REINFORCEMENT LAYERS BETWEEN ADJACENT PRECAST PANELS ARE ALIGNED AS SHOWN
	<u>D STEP DETAIL</u>
-	PROJECT NO.: <u>B-5777</u> DAVIDSON COUNTY STATION: <u>STA. 17+68.42 -Y1-</u> SHEET 7 OF 7
GEOTECHNICAL	RETAINING WALL NO. 2 MSE WALL NOTES AND LEVELING PAD DETAIL REVISIONS NO. BY DATE NO. BY DATE NO. 1 3 W-7

