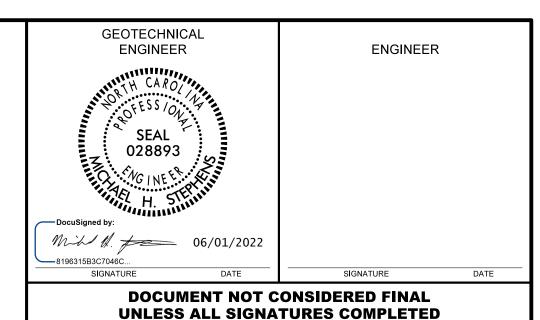


SOIL NAIL WALL - TYPICAL SECTION

*SEE CONCRETE DITCH BEHIND WALL DETAILS.

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



NOTES:

COHESION, c = 0 PSF

FOR SOIL NAIL RETAINING WALLS, SEE SOIL NAIL RETAINING WALLS PROVISION.

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 NOS.6 AND 7, 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 NOS.6 AND 7 FOR THE FOLLOWING:

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

2) DESIGN LIFE = 100 YEARS

3) MINIMUM SOIL NAIL REINFORCEMENT LENGTH = 2.5*H OR 10 FT, WHICHEVER IS GREATER

4) MINIMUM WALL EMBEDMENT ELEVATION = 1 FT

5) IN-SITU ASSUMED MATERIAL PARAMETERS:

UNIT WEIGHT, g = 120 PCF

FRICTION ANGLE, f = 30 DEGREES

THE WALL SITE FOR RETAINING WALL NOS. 6 AND 7 ARE CLASSIFIED AS AASHTO SITE CLASS D.

DESIGN RETAINING WALL NOS. 6 AND 7 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

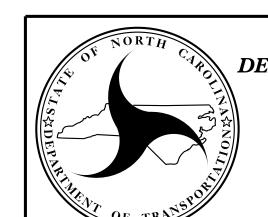
FOUNDATIONS FOR BRIDGE 394 WILL INTERFERE WITH SOIL NAILS FOR RETAINING WALL NOS.6 AND 7. FIELD VERIFY EXISTING BRIDGE FOUNDATIONS PRIOR TO SOIL NAIL WALL DESIGN AND ADJUST NAIL LOCATIONS AS NEEDED.

PROJECT NO.: 34839.1.1 (U-2579AA)

FORSYTH COUNTY

STATION: __

SHEET 12 OF 12 WALL NOS. 6 AND 7



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT RETAINING WALL NOS. 6 AND 7 SOIL NAIL RETAINING WALLS TYPICAL SECTION AND NOTES

SHEET	REVISIONS					
NO.	DATE	BY	NO.	DATE	BY	10.
W-12			3			1
VV 12			4			2

PREPARED BY: MHS

DATE: 6/1/22

REVIEWED BY: SCC

DATE: 6/1/22