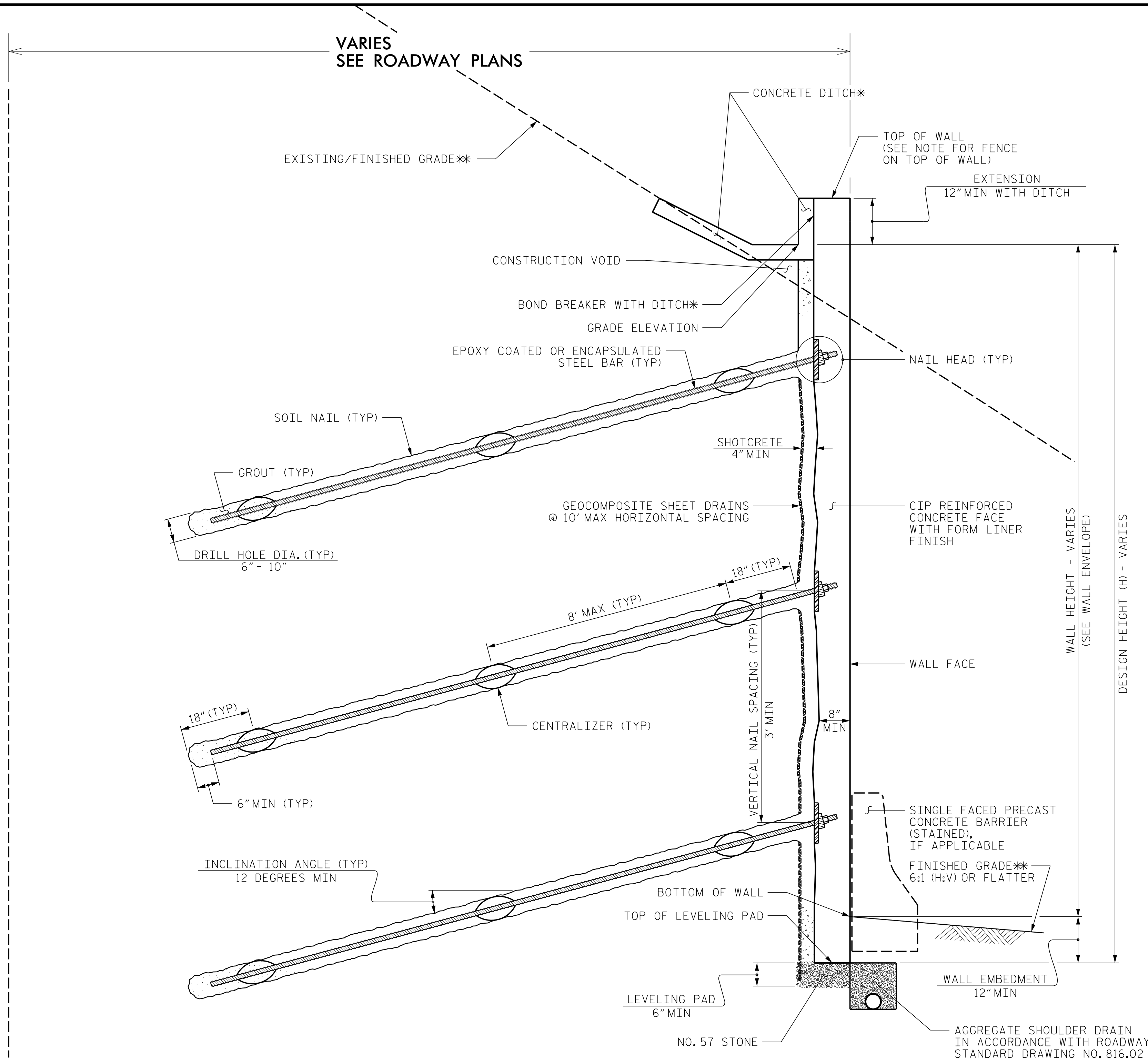


PERMANENT EASEMENT OR RIGHT OF WAY



VARIES  
SEE ROADWAY PLANS

EXISTING/FINISHED GRADE\*\*

TOP OF WALL  
(SEE NOTE FOR FENCE  
ON TOP OF WALL)

EXTENSION  
12" MIN WITH DITCH

CONSTRUCTION VOID

BOND BREAKER WITH DITCH\*

GRADE ELEVATION

EPOXY COATED OR ENCAPSULATED  
STEEL BAR (TYP)

NAIL HEAD (TYP)

SOIL NAIL (TYP)

SHOTCRETE  
4" MIN

GROUT (TYP)

GEOCOMPOSITE SHEET DRAINS  
@ 10' MAX HORIZONTAL SPACING

CIP REINFORCED  
CONCRETE FACE  
WITH FORM LINER  
FINISH

DRILL HOLE DIA. (TYP)  
6" - 10"

18" (TYP)

8" MAX (TYP)

18" (TYP)

CENTRALIZER (TYP)

3' MIN

18" (TYP)

6" MIN (TYP)

INCLINATION ANGLE (TYP)  
12 DEGREES MIN

BOTTOM OF WALL  
TOP OF LEVELING PAD

SINGLE FACED PRECAST  
CONCRETE BARRIER  
(STAINED),  
IF APPLICABLE

FINISHED GRADE\*\*  
6:1 (H:V) OR FLATTER

LEVELING PAD  
6" MIN

WALL EMBEDMENT  
12" MIN

NO. 57 STONE

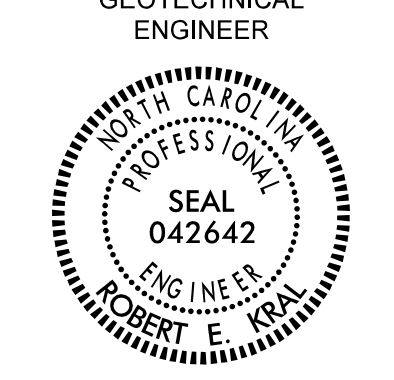
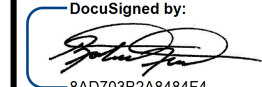
AGGREGATE SHOULDER DRAIN  
IN ACCORDANCE WITH ROADWAY  
STANDARD DRAWING NO. 816.02

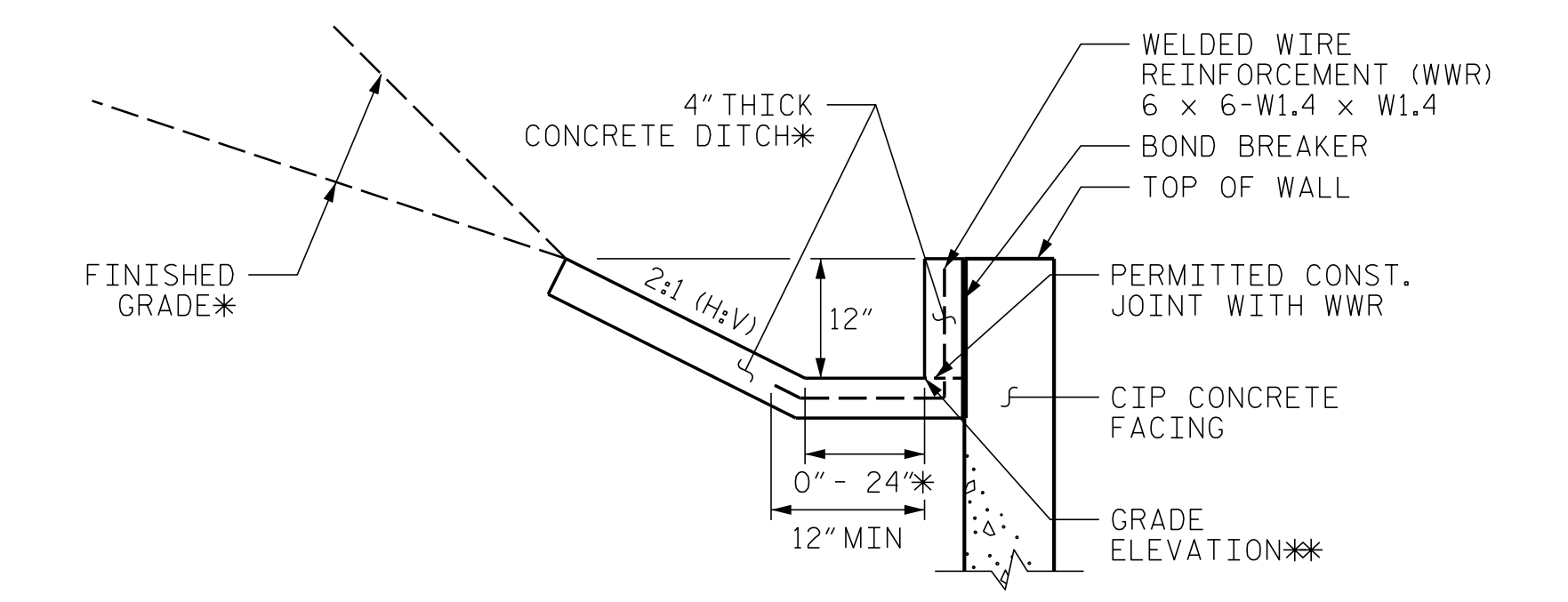
WALL HEIGHT - VARIES  
(SEE WALL ENVELOPE)

DESIGN HEIGHT (H) - VARIES

**SOIL NAIL WALL - TYPICAL SECTION**

\*SEE CONCRETE DITCH BEHIND WALL DETAILS.  
\*\*SEE PLANS FOR FINISHED GRADE.

GEOTECHNICAL ENGINEER  SEAL 042642 ENGINEER ROBERT E. KRAL	ENGINEER    _____ DATE: _____ DATE: _____
DocuSigned by:  DATE: 06/08/2022	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



**CONCRETE DITCH BEHIND  
WALL WITH CONCRETE FACING**

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

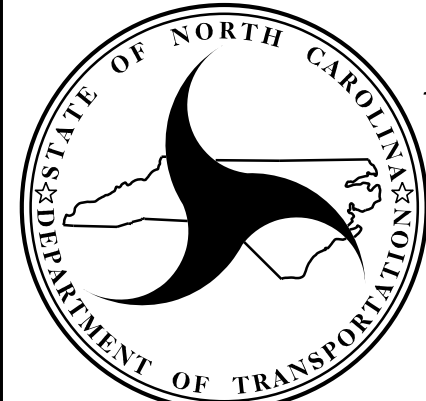
PROJECT NO.: A-0009CB  
GRAHAM COUNTY  
RETAINING WALL #15: -L- 352+29, 46' LT TO 368+35, 52' LT  
SHEET 4 OF 5

PREPARED BY: R. KRAL	DATE: 5/27/2022
REVIEWED BY: M. BREWER	DATE: 5/27/2022

Prepared in the Office of:



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 (980) 339-8684



**NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**  
  
**GEOTECHNICAL  
ENGINEERING UNIT**

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. W15-4