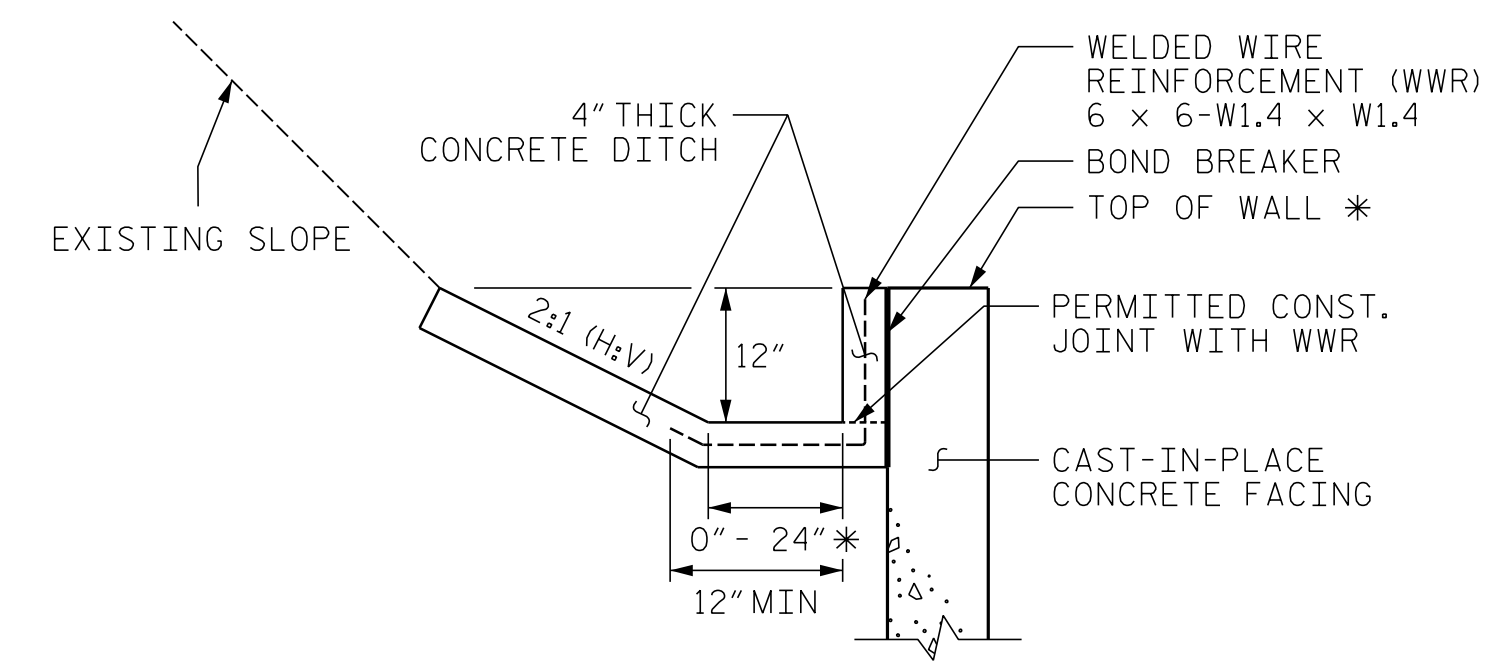
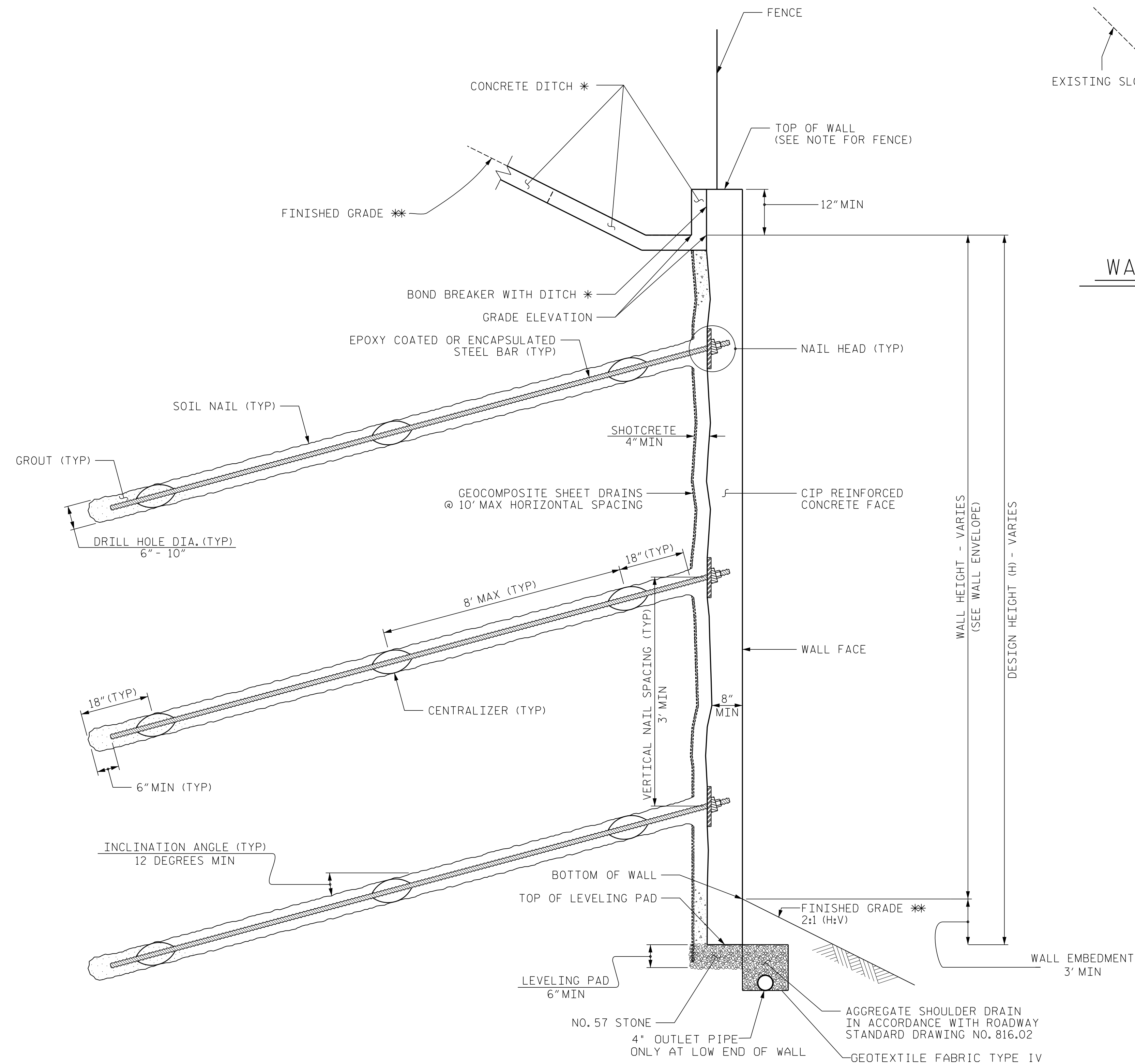


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



CONCRETE DITCH BEHIND WALL WITH CONCRETE FACING

\* SEE WALL ENVELOPE FOR GRADE ELEVATIONS.

NOTES:

- FOR SOIL NAIL RETAINING WALLS, SEE SOIL NAIL RETAINING WALLS PROVISION.
- A FENCE IS REQUIRED ON TOP OF RETAINING WALL NO. 1. SEE ROADWAY PLANS FOR FENCE ATTACHMENT DETAILS.
- A STAINED SIMULATED STONE MASONRY ARCHITECTURAL FINISH IS REQUIRED FOR THE CAST-IN-PLACE REINFORCED CONCRETE FACE FOR RETAINING WALL NO. 1. SEE ARCHITECTURAL FINISH SPECIAL PROVISION.
- 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 = WALL HEIGHT + EMBEDMENT
  - 2) DESIGN LIFE = 75 YEARS
  - 3) MINIMUM EMBEDMENT DEPTH = 3 FT
  - 4) IN-SITU ASSUMED MATERIAL PARAMETERS:
    - UNIT WEIGHT,  $\gamma = 125$  LB/CF
    - FRICTION ANGLE,  $\phi = 35$  DEGREES
    - COHESION,  $c = 0$  LB/SF
- EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, GUARDRAIL, FENCE OR HANDRAIL POSTS, PAVEMENTS, PIPES, INLETS OR UTILITIES MAY INTERFERE WITH SOIL NAILS FOR RETAINING WALL NO. 1.
- AGGREGATE SUBDRAIN SHOULD DRAIN AT THE END OF THE WALL. RIPRAP OUTLET PROTECTION SHOULD BE PLACED, SEE ROADWAY PLANS FOR OUTLET DETAIL.

SOIL NAIL WALL - TYPICAL SECTION

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

PROJECT NO.: R-5861  
 CHEROKEE COUNTY  
 STATION:  
 -L- Sta. 115+50.00 TO 117+50.00 =  
 -RW1- Sta. 10+00.00 TO 12+13.17  
 SHEET 3 OF 3

**RK&K**  
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 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
  
**GEOTECHNICAL ENGINEERING UNIT**

STD CELL Wall\_SoilNail  
**SOIL NAIL WALL NO. 1**  
**TYPICAL SECTION AND NOTES**  
 DATE: 10-19-21