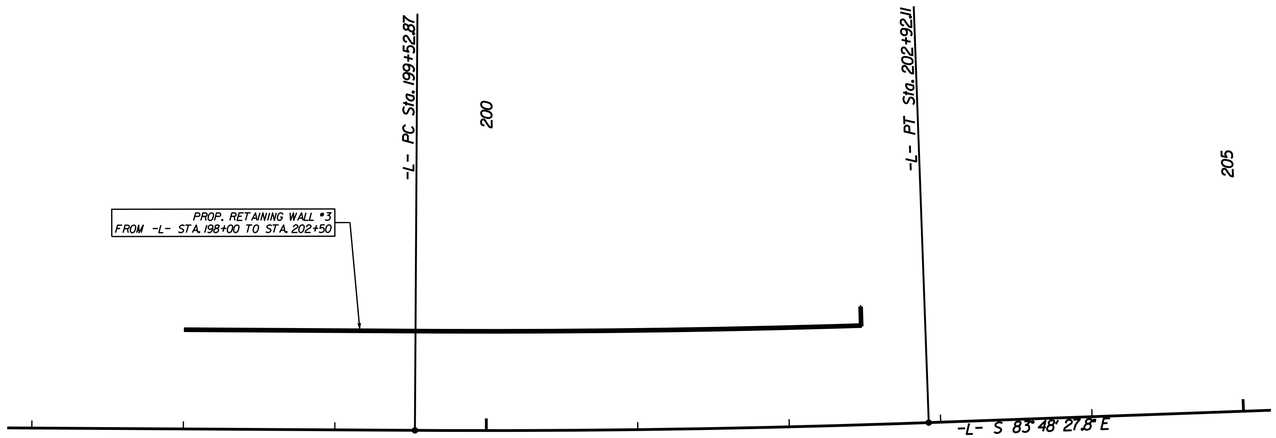
GEOTECHNICAL ENGINEER	ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 027869 ENGINEER DAVID L. TEAGUE DocuSigned by: David Teague 9D14EE4408B4DBA SIGNATURE DATE 8/29/2014	SIGNATURE DATE



NOTES:

FOR SOLDIER PILE RETAINING WALLS, SEE SOLDIER PILE RETAINING WALLS PROVISION.

FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.

AT THE CONTRACTOR'S OPTION, USE DRIVEN PILES FOR RETAINING WALL NO. 3. IF DRIVEN PILES ARE USED, USE A CAST-IN-PLACE FACE.

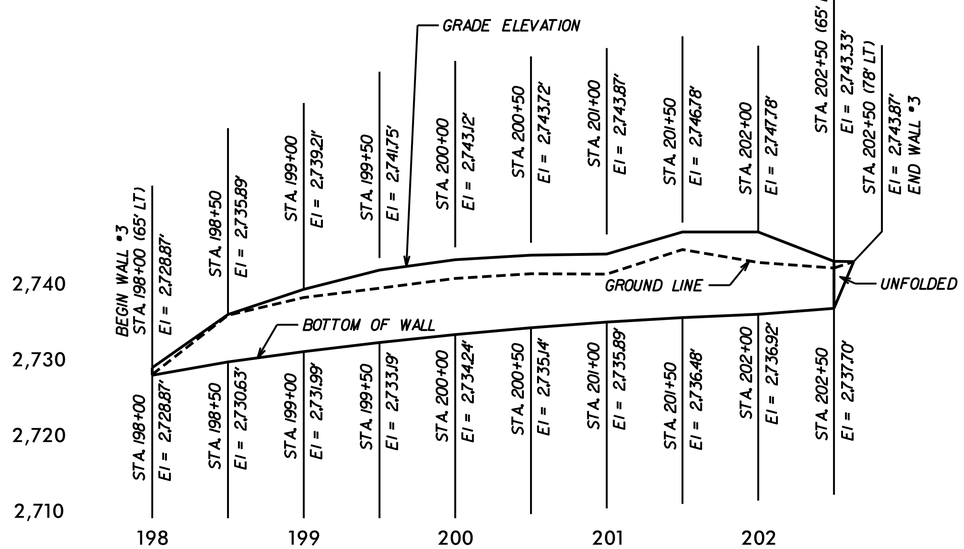
BEFORE BEGINNING SOLDIER PILE WALL DESIGN FOR RETAINING WALL NO. 3, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.

DESIGN RETAINING WALL NO. 3 FOR WALL HEIGHTS EQUAL TO THE DESIGN HEIGHT (DIFFERENCE BETWEEN GRADE ELEVATION AND BOTTOM OF WALL ELEVATION) PLUS EMBEDMENT (DIFFERENCE BETWEEN BOTTOM OF WALL ELEVATION AND TOP OF LEVELING PAD ELEVATION).

DESIGN RETAINING WALL NO. 3 FOR THE FOLLOWING:
1) MINIMUM DESIGN LIFE = 100 YEARS
2) IN-SITU ASSUMED MATERIAL PARAMETERS:
   UNIT WEIGHT, γ = 120 PCF
   FRICTION ANGLE, ϕ = 30 DEGREES
   COHESION, c = 0 PSF

USE TYPICAL SECTION F OR G FOR RETAINING WALL NO. 3.

RETAINING WALL #3



SOLDIER PILE RETAINING WALLS
QUANTITY = 4,000 SQ.FT.

PROJECT NO.: R-2519B (35609JJ)

YANCEY/MITCHELL **COUNTY**

STATION: 198+00.00 -L- TO 202+50.00 -L-

SHEET 1 OF 1

GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE
☐ WESTERN REGIONAL OFFICE
☒ CONTRACT OFFICE

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

RETAINING WALL NO. 3

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	W-4
1			3			TOTAL SHEETS
2			4			18

PREPARED BY:	D.TEAGUE	DATE:	6/11
REVIEWED BY:	E.WILLIAMS	DATE:	6/11