

8/17/99

GEOTECHNICAL ENGINEER

ENGINEER

SEAL 028893

Michael H. Stephens

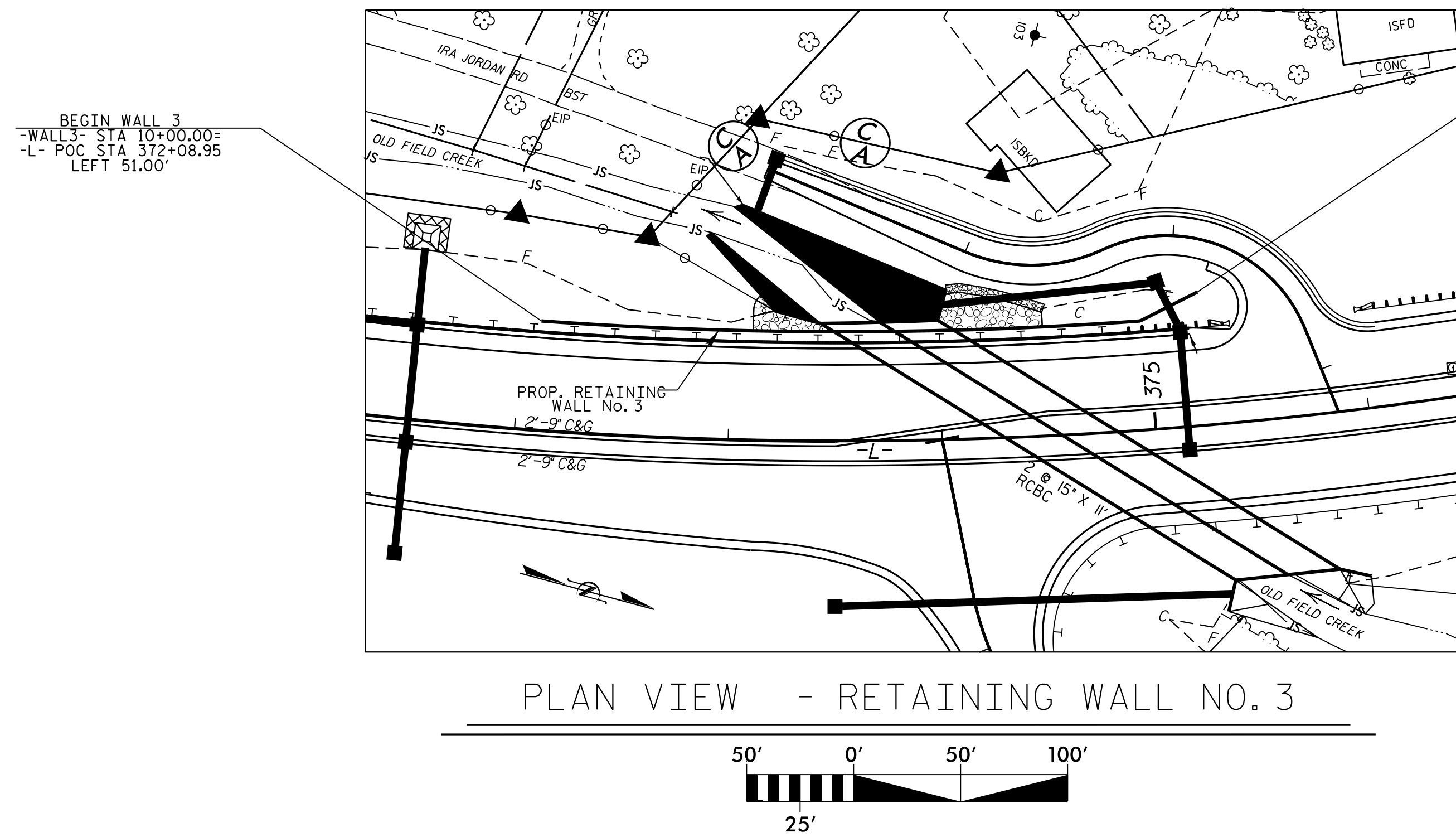
7/26/2016

DATE

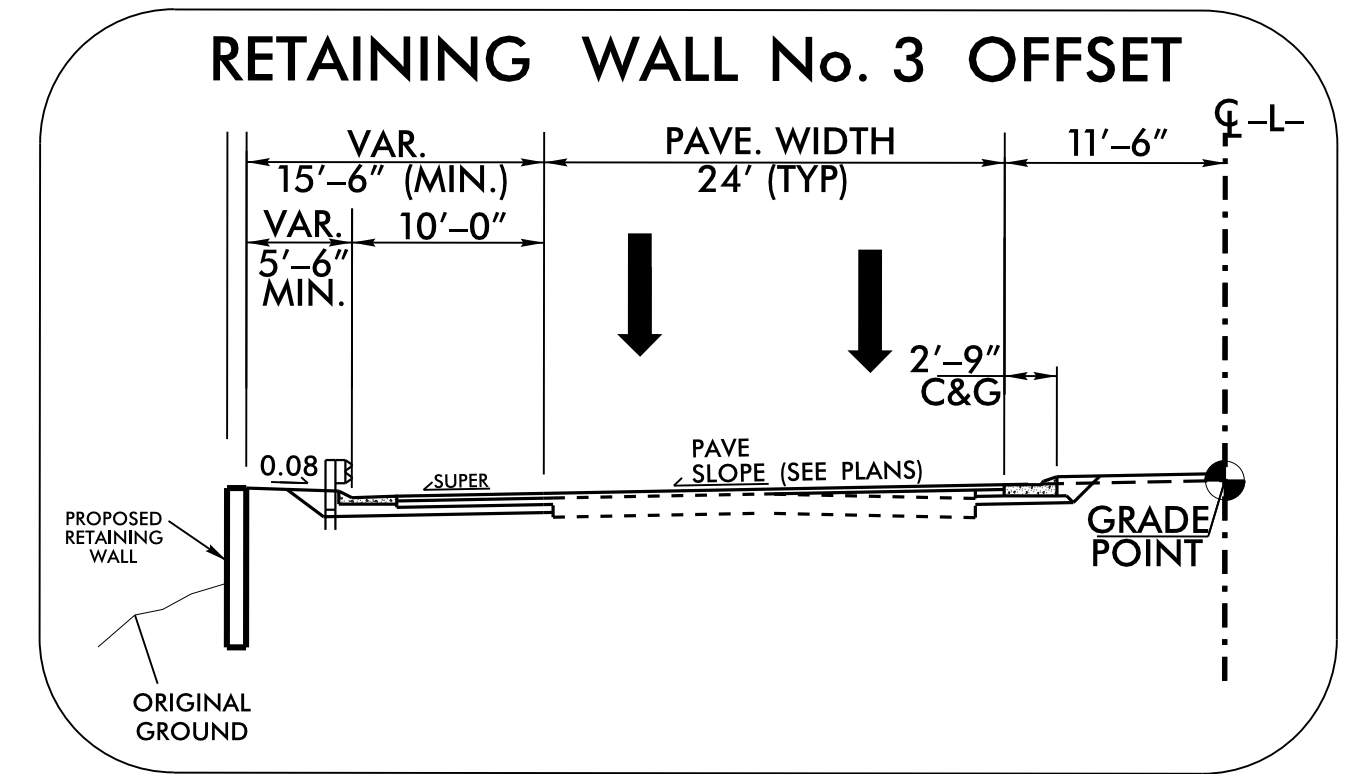
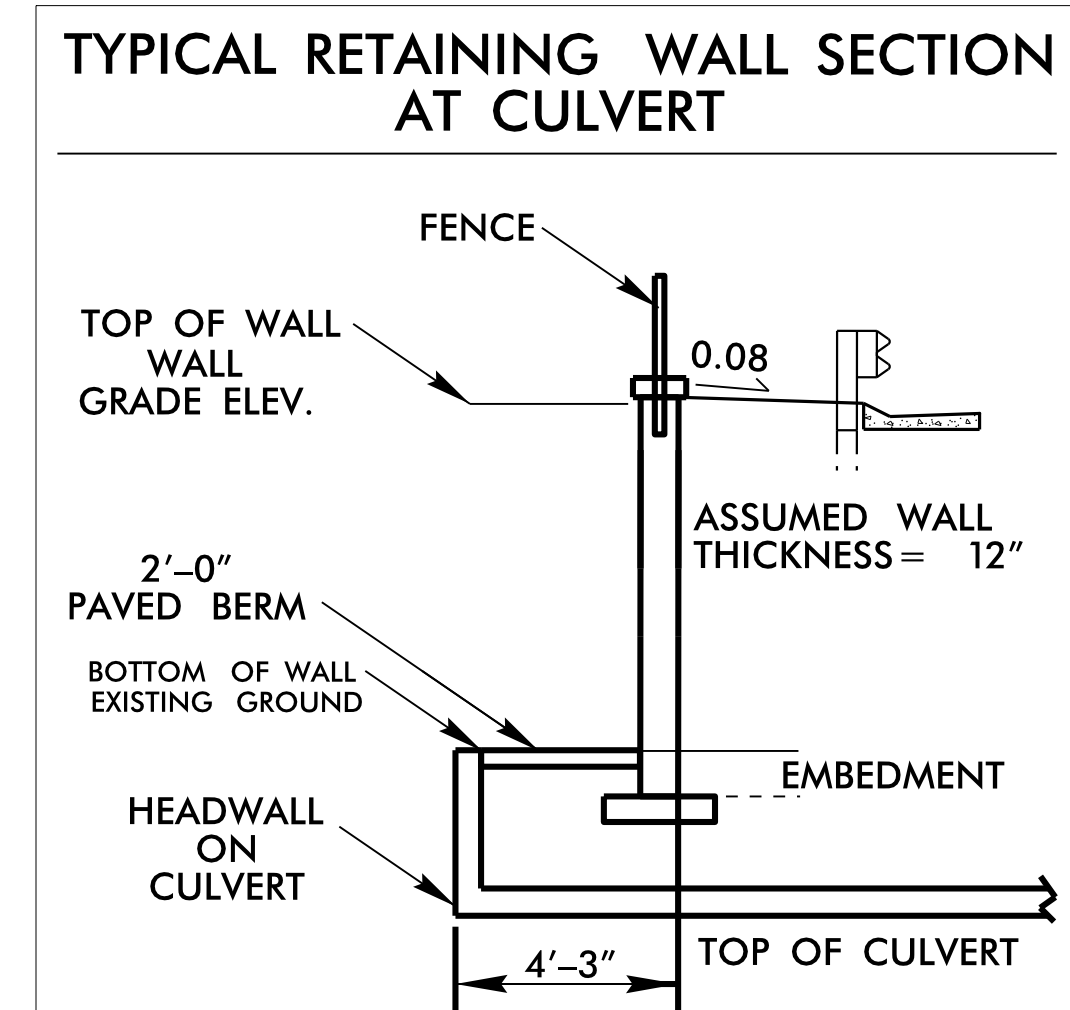
SIGNATURE

DATE

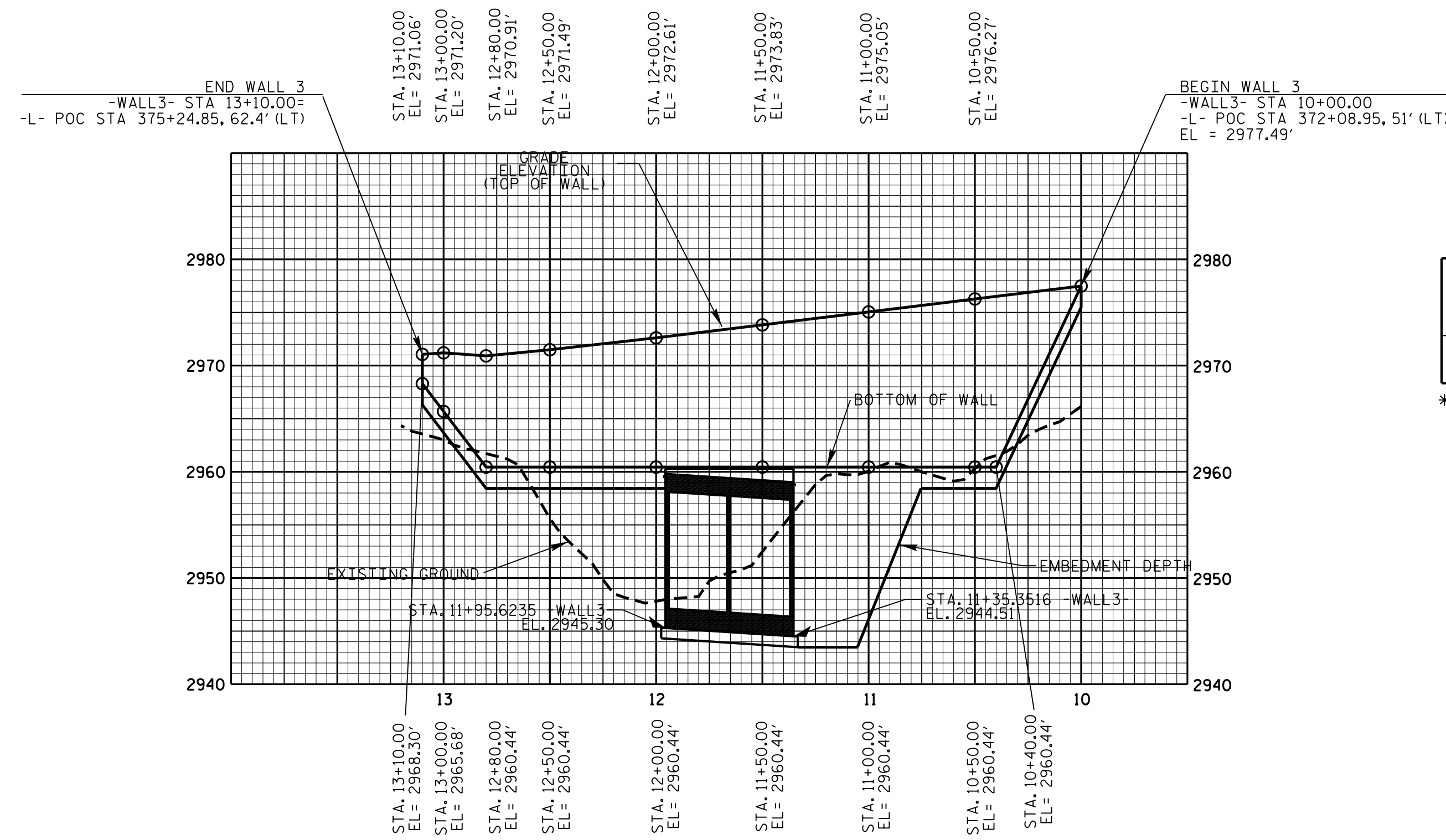
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



END WALL 3
-WALL3- STA 13+10.00=
-L- POC STA 375+24.85
LEFT 62.38'



USE DETAIL AS FOLLOWS:
-L- STA. 372 + 50.00 TO STA. 375 + 34.45 LT.



RETAINING WALL 3 -WALL3- ESTIMATED WALL QUANTITY

MSE RETAINING WALL	* 4,870 SQUARE FEET
--------------------	---------------------

* WALL AREA IS MEASURED USING THE DESIGN HEIGHT "H"

FRONT SLOPE WALL EMBEDMENT

SLOPE IN FRONT OF STRUCTURES		MINIMUM EMBEDMENT DEPTH
HORIZONTAL	FOR WALLS	H/20
	FOR ABUTMENTS	H/10
3.0H:1.0V	WALLS	H/10
2.5H:1.0V	WALLS	H/8.5
2.0H:1.0V	WALLS	H/7
1.5H:1.0V	WALLS	H/5
1.25H:1.0V	WALLS	H/4
1.0H:1.0V	WALLS	H/3

NOTE:
1) MAINTAIN A MINIMUM BENCH WIDTH OF 4.0 FT IN FRONT OF THE WALL FOR ITS ENTIRE LENGTH.
2) MINIMUM EMBEDMENT DEPTH OF 2 FT, UNLESS LARGER DEPTHS DICTATED BY THE ABOVE TABLE.
3) MAXIMUM SLOPE OF 1H:1V WILL BE MAINTAINED ON FRONT SLOPES FOR THE ENTIRE LENGTH OF THE WALL.
4) SUBMIT WITH THE WALL DESIGN INTERNAL, EXTERNAL, AND GLOBAL STABILITY ANALYSES.

PROJECT NO.: 34518.1.4 (R-2915C)
ASHE COUNTY
STATION: STA 372+09 TO 375+25 -L-
SHEET 1 OF 3

WALL ENVELOPE - RETAINING WALL NO. 3

PREPARED BY: MHS
REVIEWED BY: SCC

DATE: 7/21/16
DATE: 7/21/16

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

RETAINING WALL NO. 3 MSE RETAINING WALL

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W-5
2			4			