GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 028893 ENGINEER MICHAEL H. STEPHENS

DocuSigned by: Michael H. Stephens C44768209231 4CC...

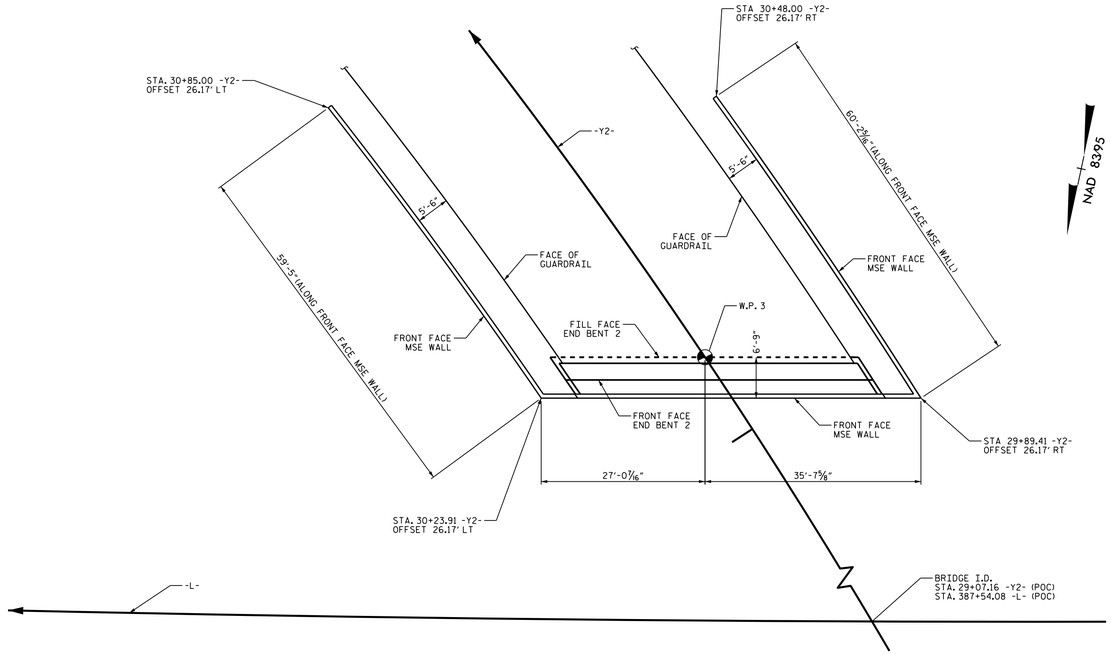
12/6/2016

SIGNATURE DATE

ENGINEER

SIGNATURE DATE

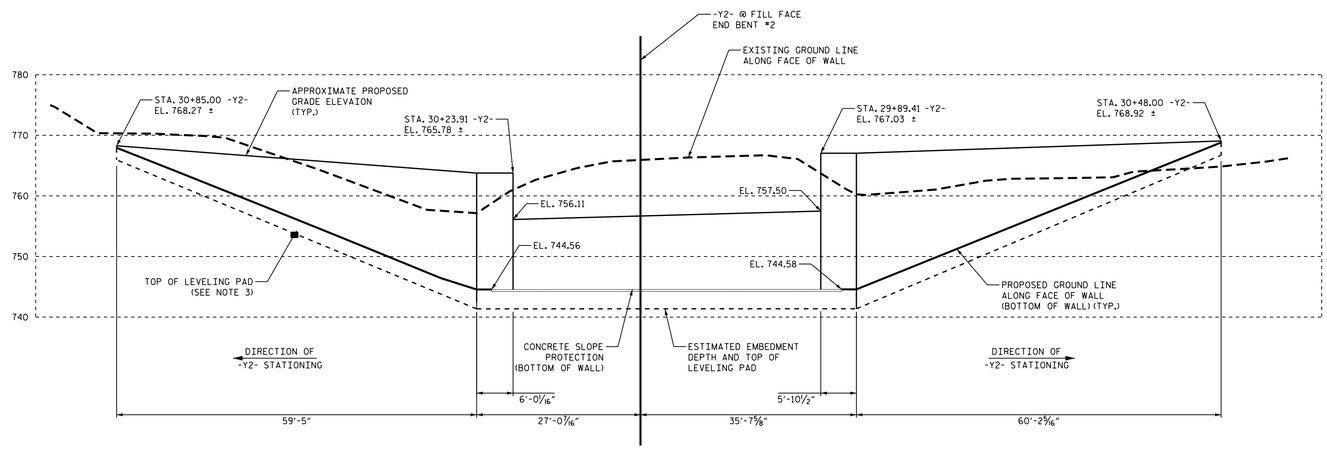
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PLAN VIEW - MSE RETAINING WALL NO. 1

ESTIMATED MSE WALL QUANTITIES (SQUARE FEET)	
MSE RETAINING WALL NO. 1	2,640 SF
MSE RETAINING WALL NO. 2	2,930 SF
MSE RETAINING WALL NO. 3	6,700 SF
MSE RETAINING WALL NO. 4	7,305 SF
MSE RETAINING WALL NO. 5	5,510 SF
MSE RETAINING WALL NO. 6	5,440 SF

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



WALL ENVELOPE - MSE RETAINING WALL NO. 1

NOTE: OFFSET DIMENSIONS ARE FROM FACE OF WALL

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 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) SUBMITT WITH THE WALL DESIGN INTERNAL, EXTERNAL, AND GLOBAL STABILITY ANALYSISES.

PROJECT NO.: 34497.1.2 (R-2707C)

CLEVELAND COUNTY

STATION: 29+07.16 -Y2-

SHEET 01 OF 09 387+54.08 -L-

PREPARED BY: MHS	DATE: 11/17/16
REVIEWED BY: SY/SCC	DATE: 11/17/16

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

MSE RETAINING WALL NO. 1
BRIDGE 468, SITE 2

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