
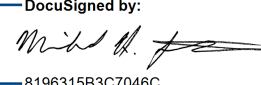
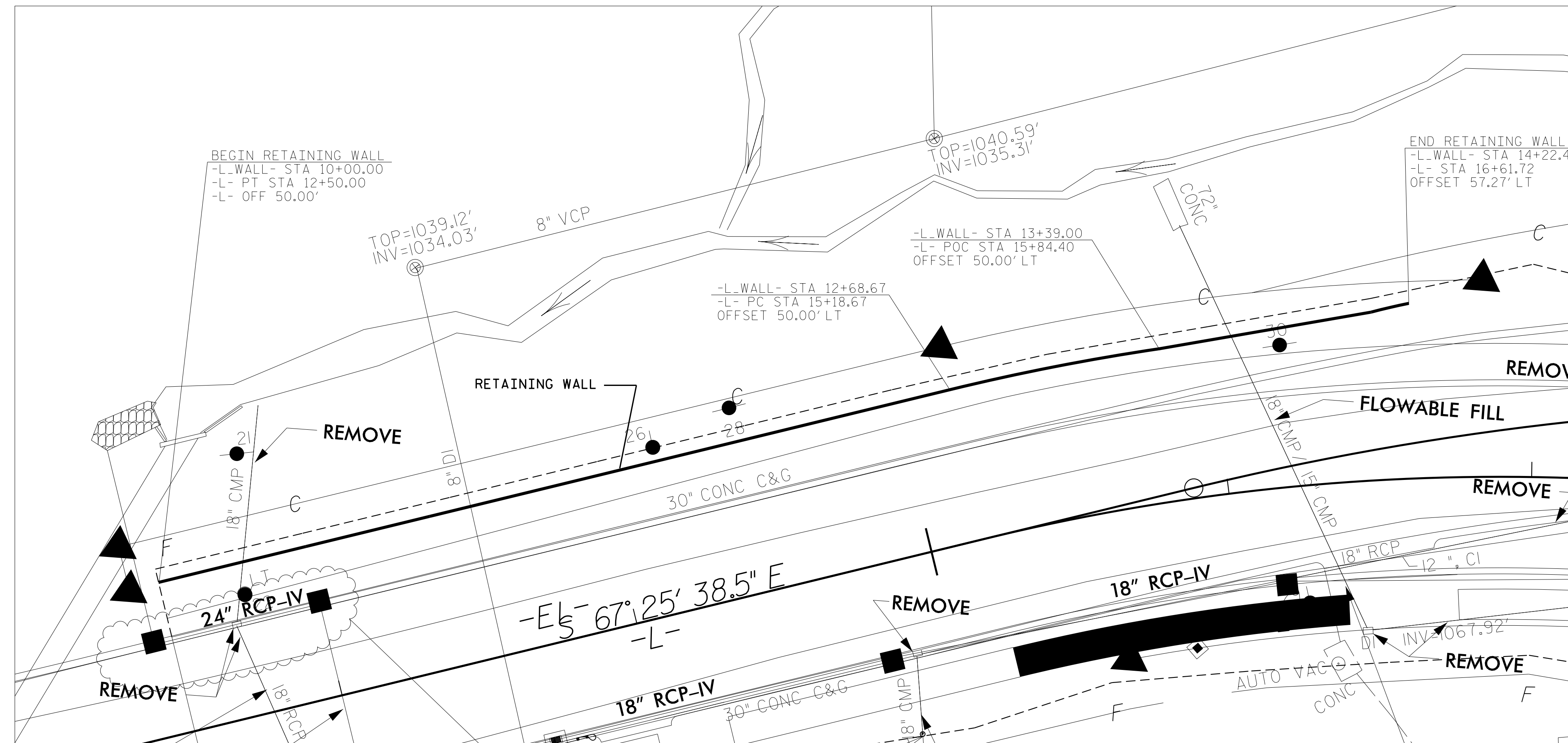


<b>PROJECT REFERENCE NO.</b> B-5869 (48063.1.FR1)		<b>SHEET NO.</b> W-1	
GEOTECHNICAL ENGINEER  SEAL 028893 MICHAEL H. STEPHENS ENGINEER		ENGINEER	
DocuSigned by:  12/20/2022		DATE SIGNATURE DATE	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			

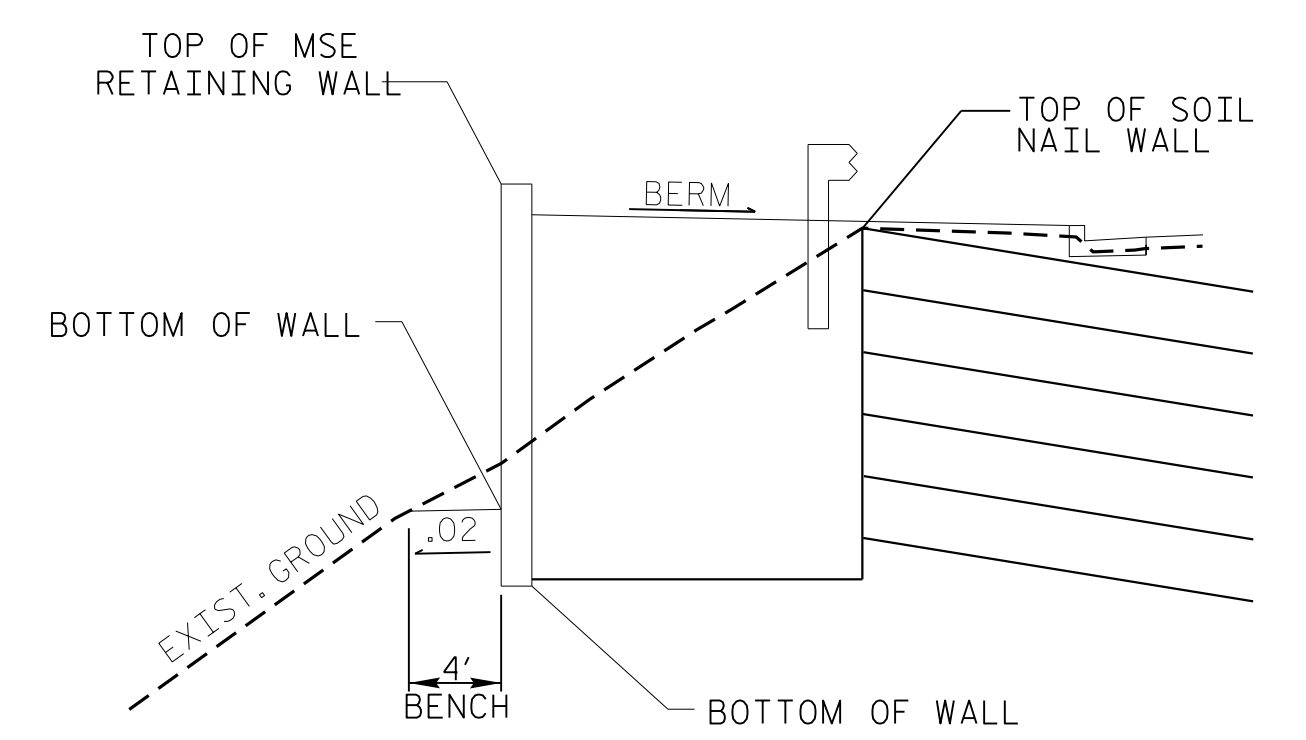


RETAINING WALL NO. 1 - PLAN VIEW  
N.T.S.

**FRONT SLOPE WALL EMBEDMENT**

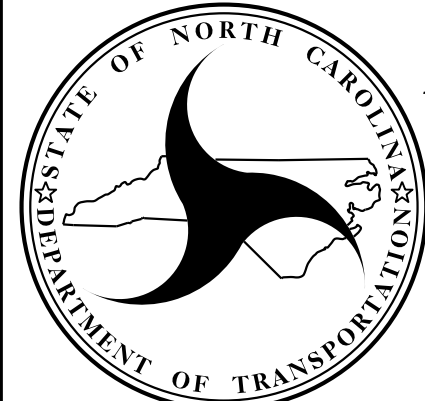
SLOPE IN FRONT OF STRUCTURES	MINIMUM EMBEDMENT DEPTH	
	FOR WALLS	FOR ABUTMENTS
HORIZONTAL	H/20	H/10
3.0H:1.0V	WALLS	H/10
2.5H:1.0V	WALLS	H/8.5
2.0H:1.0V	WALLS	H/7
1.5H:1.0V	WALLS	H/5
1.25H:1.0V	WALLS	H/4
1.0H:1.0V	WALLS	H/3

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) 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.



SMSE RETAINING WALL TYPICAL SECTION

PREPARED BY: MHS      DATE: 12/20/22  
 REVIEWED BY: SCC      DATE: 12/20/22

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

**RETAINING WALL NO. 1**  
**REPLACE BRIDGE 99 ON**  
**US 64/US70 OVER SOUTHERN**  
**RAILROAD**

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