

PROJECT REFERENCE NO. SHEET NO.

HB-0002

GEOTECHNICAL
ENGINEER

SEAL
028893

SEAL
028893

O3/06/2024

C447682092314CC.
SIGNATURE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

## Stage 1 Sequence:

- 1) Construct Temporary Shoring Nos. 1 and 2.
- 2) Excavate for Surcharge Temporary Wall Nos. 1 and 2 and Temporary Shoring Nos. 3 and 4.
- 3) Construct Surcharge Temp. MSE Wall, Retaining Wall Nos. 1 and 2 and Temp. Shoring Nos 3 and 4. When backfill for Temporary MSE Wall fills overlaps with the reinforced zone of Permanent MSE Walls, use the Permanent MSE Walls backfill material required for retaining walls in the reinforced zone of the Temporary Walls.
- 4) Install 4 settlement gauges to monitor surcharge settlement in accordance to NCDOT Standard 235.01. Operations Engineer and contractor to determine locations at the time of construction.
- 5) Install settlement points at each bent of existing West bound bridge.
- 6) Place surcharge fill to the limits shown on plans.
- 7) Monitor settlement until a acceptable rate is observed, Operation Engineer will release the removal of Surcharge at this time. If excessive settlement or movement of the existing bridge is observed then remove surcharge fill beneath the existing structure. Provide settlement reading
- to the NCDOT Operations Engineer on a bi-weekly basis.

  8) Remove surcharge and construct Stage 1 Tunnel and Temporary Shoring No. 5, consectutively.

## Revisions:

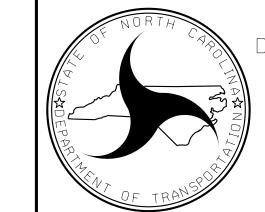
- 1) Revision 1 Includes Phase 1 termination and Temporary Shoring Location Nos. 1, 3, and 5 being moved closer to the existing WBL Bridge.
- 2) Revision 2 Note 3 correction.

STAGE 1 SURCHAR	GE QUANTITIES		
SURCHARGE TEMP. MSE WALL NO.1	1,884 SF		
SURCHARGE TEMP. MSE WALL NO.2	2,290 SF		
BORROW EXCAVATION	6,140 CY		
UNCLASSIFIED EXCAVATION	6,140 CY		
EMBANKMENT SETTLEMENT GAUGES	4 EA		

INDICATES ESTIMATED LIMITS ON SURCHARGE

## STAGE 1 SURCHARGE PROFILE VIEW

\* FOR SURCHARGE SEE STANDARD SPECIFICATION SECTION 235 EMBANKMENTS



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT SURCHARGE PLAN & PROFILE VIEW STAGE 1

REVISIONS

BY DATE NO. BY DATE

MHS 2/24 3

MHS 2/24 4

PREPARED	BY:	MHS	DATE:	12/23
REVIEWED	RY.	SCC	DATF.	12/23