

# TEMPORARY SHORING DATA

PROJ. REFERENCE NO.	SHEET NO.
A-0009CB	TMP-2A

### Shoring Location No. 1:

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

TEMPORARY SHORING IS REQUIRED FOR THE STRUCTURE CONSTRUCTION FROM -L- STATION 249+75, 1' LT TO -L- STATION 250+20, 1' LT.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM -L- STATION 249+75, 1' LT TO -L- STATION 250+20, 1' LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

ELEVATION 2288 TO ELEVATION 2280 FT  
 UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
 COHESION ( $c$ ) = 0 LB/SF  
 GROUNDWATER ELEVATION = 2280 FT

ELEVATION 2280 TO ELEVATION 2068 FT  
 UNIT WEIGHT ( $\gamma$ ) = 115 LB/CF  
 FRICTION ANGLE ( $\phi$ ) = 26 DEGREES  
 COHESION ( $c$ ) = 0 LB/SF

BELOW ELEVATION 2068 FT  
 UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
 COHESION ( $c$ ) = 0 LB/SF

DRIVEN PILING FOR TEMPORARY SHORING FROM -L- STATION 249+75, 1' LT TO -L- STATION 250+20, 1' LT MAY NOT PENETRATE BELOW ELEVATION 2278 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

DO NOT USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -L- STATION 249+75, 1' LT TO -L- STATION 250+20, 1' LT. CONTRACTOR DESIGNED SHORING IS REQUIRED. SEE TEMPORARY SHORING SPECIAL PROVISION.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM -L- STATION 249+75, 1' LT TO -L- STATION 250+20, 1' LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

### Shoring Location No. 2:

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

TEMPORARY SHORING IS REQUIRED FOR THE STRUCTURE CONSTRUCTION FROM -L- STATION 249+75, 5' RT TO -L- STATION 250+20, 5' RT.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM -L- STATION 249+75, 5' RT TO -L- STATION 250+20, 5' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

ELEVATION 2288 TO ELEVATION 2280 FT  
 UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
 COHESION ( $c$ ) = 0 LB/SF  
 GROUNDWATER ELEVATION = 2280 FT

ELEVATION 2280 TO ELEVATION 2068 FT  
 UNIT WEIGHT ( $\gamma$ ) = 115 LB/CF  
 FRICTION ANGLE ( $\phi$ ) = 26 DEGREES  
 COHESION ( $c$ ) = 0 LB/SF

BELOW ELEVATION 2068 FT  
 UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
 COHESION ( $c$ ) = 0 LB/SF

DO NOT USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -L- STATION 249+75, 5' RT TO -L- STATION 250+20, 5' RT. SEE TEMPORARY SHORING SPECIAL PROVISION.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM -L- STATION 249+75, 5' RT TO -L- STATION 250+20, 5' RT. SEE GEOTECHNICAL STANDARD DETAIL 1801.02 FOR STANDARD TEMPORARY WALLS.

IF GROUNDWATER OR THE FLOOD ELEVATION IS ABOVE THE REINFORCED ZONE, DO NOT USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM -L- STATION 249+75, 5' RT TO -L- STATION 250+20, 5' RT. CONTRACTOR DESIGNED SHORING IS REQUIRED.

### Shoring Location No. 3:

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

TEMPORARY SHORING IS REQUIRED FOR THE STRUCTURE CONSTRUCTION FROM -L- STATION 380+50+/- , TBD TO -L- STATION 383+20, TBD.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM -L- STATION 380+50+/-, TBD TO -L- STATION 383+20, TBD, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
 COHESION ( $c$ ) = 0 LB/SF  
 GROUNDWATER ELEVATION = 3121 FT

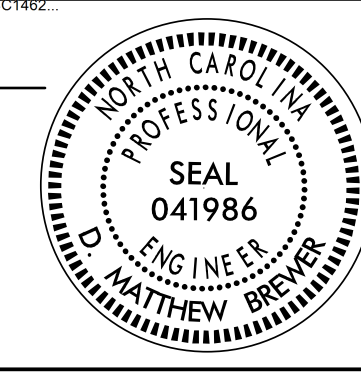
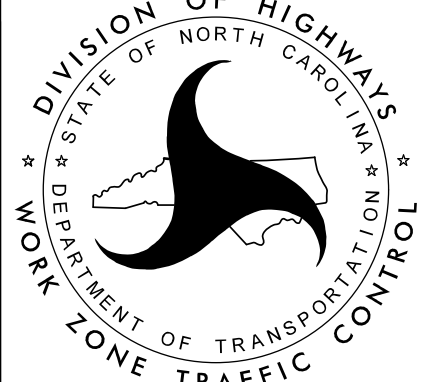
ROCK (ELEVATION VARIES)  
 UNIT WEIGHT ( $\gamma$ ) = 165 LB/CF  
 FRICTION ANGLE ( $\phi$ ) = 40 DEGREES  
 COHESION ( $c$ ) = 1000 LB/SF

DRIVEN PILING FOR TEMPORARY SHORING FROM -L- STATION 380+50+/-, TBD TO -L- STATION 383+20+/- TBD MAY NOT PENETRATE BELOW ELEVATION 3130 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -L- STATION 380+50+/-, TBD TO -L- STATION 383+20+/-, TBD. SEE STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM -L- STATION 380+50+/-, TBD TO -L- STATION 383+20+/-, TBD. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

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APPROVED: <u>Matthew Brewer</u> DATE: 8/1/2022 		<p style="text-align: center;"><b>TEMPORARY SHORING DATA</b></p>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>		