

SHORING LOCATION NO.	FROM STATION AND OFFSET	TO STATION AND OFFSET	ESTIMATED AVERAGE HEIGHT	ESTIMATED MAXIMUM HEIGHT	SHORING LOCATION TYPE
NO. 1	STA. 31+43+/- -Y11-REV2 26.5 FT. LT.	STA. 31+98+/- -Y11-REV2 26.5 FT. LT.	8.2 FT.	11.5 FT.	STRUCTURE
NO. 2	STA. 32+82+/- -Y11-REV2 26.5 FT. LT.	STA. 33+26+/- -Y11-REV2 26.5 FT. LT.	8.1 FT.	11.0 FT.	STRUCTURE

TEMPORARY SHORING NOTES

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 END BENT INSTALLATION FROM STA. 31+43+/- -Y11-REV2, 26.5' LT., TO STA. 31+98+/- -Y11-REV2, 26.5' 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 STA. 31+43+/- -Y11-REV2, 26.5' LT., TO STA. 31+98+/- -Y11-REV2, 26.5' LT., FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 LB/CF
 FRICTION ANGLE (ϕ) = 30 DEGREES
 COHESION (c) = 0 LB/SF
 GROUNDWATER ELEVATION = 916 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STA. 31+43+/- -Y11-REV2, 26.5' LT., TO STA. 31+98+/- -Y11-REV2, 26.5' LT.. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STA. 31+43+/- -Y11-REV2, 26.5' LT., TO STA. 31+98+/- -Y11-REV2, 26.5' LT..

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STA. 31+43+/- -Y11-REV2, 26.5' LT., TO STA. 31+98+/- -Y11-REV2, 26.5' LT.. SEE STANDARD DRAWING NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STA. 31+43+/- -Y11-REV2, 26.5' LT., TO STA. 31+98+/- -Y11-REV2, 26.5' 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 END BENT INSTALLATION FROM STA. 32+82+/- -Y11-REV2, 26.5' LT., TO STA. 33+26+/- -Y11-REV2, 26.5' 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 STA. 32+82+/- -Y11-REV2, 26.5' LT., TO STA. 33+26+/- -Y11-REV2, 26.5' LT., FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 LB/CF
 FRICTION ANGLE (ϕ) = 30 DEGREES
 COHESION (c) = 0 LB/SF
 GROUNDWATER ELEVATION = 916 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STA. 32+82+/- -Y11-REV2, 26.5' LT., TO STA. 33+26+/- -Y11-REV2, 26.5' LT.. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

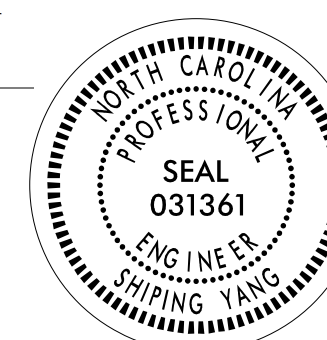
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STA. 32+82+/- -Y11-REV2, 26.5' LT., TO STA. 33+26+/- -Y11-REV2, 26.5' LT..

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STA. 32+82+/- -Y11-REV2, 26.5' LT., TO STA. 33+26+/- -Y11-REV2, 26.5' LT.. SEE STANDARD DRAWING NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

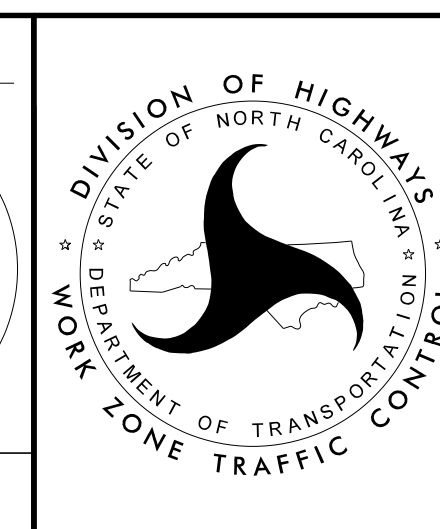
IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STA. 32+82+/- -Y11-REV2, 26.5' LT., TO STA. 33+26+/- -Y11-REV2, 26.5' LT., FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

APPROVED: *Shiping Yang*
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DATE: 2/16/2017



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



TEMPORARY SHORING NOTES