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Shoring Location No. 5

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

DESIGN TEMPORARY SHORING FROM STATION 22+33 +/--DET-, 22 FT. LT. TO STATION 22+50 +/- -DET-, 19 FT. LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

> UNIT WEIGHT OF SOIL ABOVE WATER TABLE. $\gamma = 120 \text{ PCF}$ UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma' = 60 \text{ PCF}$ FRICTION ANGLE, $\varphi f=30$ COHESION. c = 0 PSF GROUNDWATER ELEVATION = N/A

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

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION 22+33 +/- -DET-, 22 FT. LT. TO STATION 22+50 +/- -DET-, 19 FT. LT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 22+33 +/- -DET-, 22 FT. LT. TO STATION 22+50 +/--DET-, 19 FT. LT. SEE GEOTECHNICAL STANDARD DETAIL 1801.02 FOR STANDARD TEMPORARY WALLS.

Shoring Location No. 6

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

DESIGN TEMPORARY SHORING FROM STATION 19+89 +/--L-, 40 FT. RT. TO STATION 20+35 +/- -L-, 40 FT. RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND **GROUNDWATER ELEVATION:**

FRICTION ANGLE, $\varphi f= 30$ (FOR TRIASSIC **RESIDUAL SOILS AT ELEVATION 646 OR HIGHER**)

FRICTION ANGLE, $\varphi f = 40$ (FOR TRIASSIC WEATHERED ROCK AT ELEVATION 646 OR LOWER)

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

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION 19+89 +/- -L-, 40 FT. RT. TO STATION 20+35 +/- -L-, 40 FT. RT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

DRIVEN PILLING FOR TEMPORARY SHORING FROM STATION 19+89 +/- -L-, 40 FT. RT. TO STATION 20+35 +/- -L-, 40 FT. RT. MAY NOT PENETRATE BELOW ELEVATION 653 FT. DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

IT MAY BE PREFERABLE TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION 19+89 +/--L-, 40 FT. RT. TO STATION 20+35 +/- -L-, 40 FT. RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

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SHORING NOTES

UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120 \text{ PCF}$

UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma' = 60 \text{ PCF}$

COHESION, c = 0 PSF

GROUNDWATER ELEVATION = N/A

Shoring Location No. 7

FOR TEMPORARY SHORING AND POSITIVE PROTECT FOR TEMPORARY SHORING, SEE PLANS AND TEMPORA SHORING PROVISION.

DESIGN TEMPORARY SHORING FROM STATION 21+32 -L-, 40 FT. RT. TO STATION 21+78 +/- -L-, 40 FT. RT, FOR FOLLOWING ASSUMED SOIL PARAMETERS **GROUNDWATER ELEVATION:**

> UNIT WEIGHT OF SOIL ABOVE WATER TABL $\gamma = 120 \text{ PCF}$

UNIT WEIGHT OF SOIL BELOW WATER TABL $\gamma' = 60 \text{ PCF}$

FRICTION ANGLE, $\phi f= 30$ (FOR TRIAS **RESIDUAL SOILS AT ELEVATION 644 OR HIGHER)**

FRICTION ANGLE, $\varphi f = 40$ (FOR TRIAS WEATHERED ROCK AT ELEVATION 644 OR LOWER) COHESION, c = 0 PSF

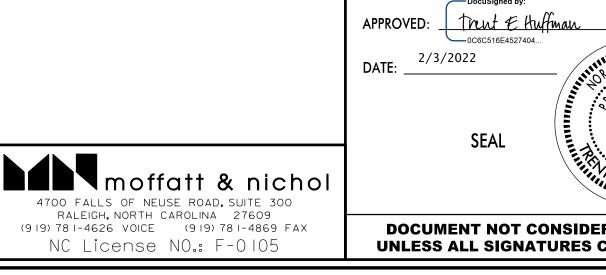
GROUNDWATER ELEVATION = N/A

BEFORE BEGINNING TEMPORARY SHORING DESIGN CONSTRUCTION, SURVEY EXISTING GROUND ELEVATION IN THE VICINITY OF SHORING LOCATIONS TO DETERM ACTUAL SHORING HEIGHTS.

LIMITED SUBSURFACE INFORMATION IS AVAILABLE THE VICINITY OF TEMPORARY SHORING FROM STAT 21+32 +/- -L-, 40 FT. RT. TO STATION 21+78 +/- -L-, 40 FT. THE INFORMATION PROVIDED FOR TEMPORARY SHOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE THE ACTUAL SITE CONDITIONS ENCOUNTERED DUR CONSTRUCTION.

DRIVEN PILLING FOR TEMPORARY SHORING FR STATION 21+32 +/- -L-, 40 FT. RT. TO STATION 21+78 +/-40 FT. RT. MAY NOT PENETRATE BELOW ELEVATION FT. DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SO BOULDERS OR WEATHERED OR HARD ROCK.

IT MAY BE PREFERABLE TO USE A TEMPORARY SOIL N WALL FOR TEMPORARY SHORING FROM STATION 21+32 -L-, 40 FT. RT. TO STATION 21+78 +/- -L-, 40 FT. RT. TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY S NAIL WALLS PROVISION.



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