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PROJ. REFERENCE NO.	SHEET NO.
17BP.3.R.28	TMP-2A

TEMPORARY SHORING DATA

SHORING LOCATION NO. 1

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

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

USE CONTRACTOR DESIGNED TEMPORARY SHORING FROM STATION -L- 14+42±, 16 FT RIGHT, TO STATION -L- 14+62±, 16 FT RIGHT.

DESIGN TEMPORARY SHORING FROM STATION -L- 14+42 ±, 16.0 FT RIGHT, TO STATION -L- 14+62 ±, 16.0 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

SOIL PARAMETERS				
	UNIT WEIGHT (PCF)	SUBMERGED UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)
GROUND SURFACE TO EL. -3 FT	120	60	30	0
EL. -3 FT TO EL. -28 FT	80	20	11	150
BELOW EL. -28 FT	120	60	0	1000

ASSUME WATER TABLE ELEVATION = 0 FT
ASSUME EXCAVATION WILL BE DEWATERED DOWN TO BOTTOM OF EXCAVATION.

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION -L- 14+42±, 16 FT RIGHT, TO STATION -L- 14+62±, 16 FT RIGHT, MAY NOT PENETRATE BELOW ELEVATION -35 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 14+42±, 16 FT RIGHT, TO STATION -L- 14+62±, 16 FT RIGHT.

SHORING LOCATION NO. 2

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

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

USE CONTRACTOR DESIGNED TEMPORARY SHORING FROM STATION -L- 14+29±, 25 FT RIGHT, TO STATION -L- 14+72±, 25 FT RIGHT.

DESIGN TEMPORARY SHORING FROM STATION -L- 14+29±, 25 FT RIGHT, TO STATION -L- 14+72±, 25 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

SOIL PARAMETERS				
	UNIT WEIGHT (PCF)	SUBMERGED UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)
GROUND SURFACE TO EL. -3 FT	120	60	30	0
EL. -3 FT TO EL. -28 FT	80	20	11	150
BELOW EL. -28 FT	120	60	0	1000

ASSUME WATER TABLE ELEVATION = 0 FT
ASSUME EXCAVATION WILL BE DEWATERED DOWN TO BOTTOM OF EXCAVATION.

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION -L- 14+29±, 25 FT RIGHT, TO STATION -L- 14+72±, 25 FT RIGHT, MAY NOT PENETRATE BELOW ELEVATION -35 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

SHORING LOCATION NO. 3

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

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

USE CONTRACTOR DESIGNED TEMPORARY SHORING FROM STATION -L- 14+85±, 25 FT RIGHT, TO STATION -L- 15+07±, 25 FT RIGHT.

DESIGN TEMPORARY SHORING FROM STATION -L- 14+85±, 25 FT RIGHT, TO STATION -L- 15+07±, 25 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

SOIL PARAMETERS				
	UNIT WEIGHT (PCF)	SUBMERGED UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)
GROUND SURFACE TO EL. -3 FT	120	60	30	0
EL. -3 FT TO EL. -28 FT	80	20	11	150
BELOW EL. -28 FT	120	60	0	1000

ASSUME WATER TABLE ELEVATION = 0 FT
ASSUME EXCAVATION WILL BE DEWATERED DOWN TO BOTTOM OF EXCAVATION.

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION -L- 14+85±, 25 FT RIGHT, TO STATION -L- 15+07±, 25 FT RIGHT, MAY NOT PENETRATE BELOW ELEVATION -35 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 14+85±, 25 FT RIGHT, TO STATION -L- 15+07±, 25 FT RIGHT.

SHORING LOCATION NO. 4

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

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

USE CONTRACTOR DESIGNED TEMPORARY SHORING FROM STATION -L- 14+85±, 16 FT RIGHT, TO STATION -L- 15+07±, 16 FT RIGHT.

DESIGN TEMPORARY SHORING FROM STATION -L- 14+85±, 16 FT RIGHT, TO STATION -L- 15+07±, 16 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

SOIL PARAMETERS				
	UNIT WEIGHT (PCF)	SUBMERGED UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)
GROUND SURFACE TO EL. -3 FT	120	60	30	0
EL. -3 FT TO EL. -28 FT	80	20	11	150
BELOW EL. -28 FT	120	60	0	1000

ASSUME WATER TABLE ELEVATION = 0 FT
ASSUME EXCAVATION WILL BE DEWATERED DOWN TO BOTTOM OF EXCAVATION.

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION -L- 14+85±, 16 FT RIGHT, TO STATION -L- 15+07±, 16 FT RIGHT, MAY NOT PENETRATE BELOW ELEVATION -35 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH SEALED DOCUMENTS FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENTS WERE SUBMITTED TO THE WZTC SECTION ON FEBRUARY 12, 2013 AND FEBRUARY 21, 2013 AND SEALED BY PROFESSIONAL ENGINEER, JINYOUNG PARK, P.E., LICENSE # 32171.

APPROVED: DocuSigned by: DATE: 10/11/2016

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 017586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

TEMPORARY SHORING NOTES

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