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C ł	
-	noring Location No. (1)
F(	OR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING
Se	EE PLANS AND TEMPORARY SHORING PROVISION.
TE	EMPORARY SHORING IS REQUIRED FOR THE BRIDGE END BENT FROM STATION
- L	162+59 +/-, 9.5' +/- RT, TO STATION -L- 163+50 +/-, 5.8' +/- RT.
BE	FORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY
E>	(ISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO
DE	ETERMINE ACTUAL SHORING HEIGHTS.
DE ST PA	ESIGN TEMPORARY SHORING FROM STATION -L- 162+59 +/-, 9.5' +/- RT, TATION -L- 163+50 +/-, 5.8' +/- RT, FOR THE FOLLOWING ASSUMED SOIL ARAMETERS AND GROUNDWATER ELEVATION:
	UNIT WEIGHT $(\gamma) = 120 \text{ LB/CF}$ FRICTION ANGLE $(\phi) = 30 \text{ DEGREES}$ COHESION (c) = 0 LB/SF GROUNDWATER ELEVATION = 2730 FT
L]	MITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF
TE	EMPORARY SHORING FROM STATION -L- 162+59 +/-, 9.5' +/- RT, TO STAT
- L	163+50 +/-, 5.8' +/- RT. THE INFORMATION PROVIDED FOR TEMPORARY
SH	HORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL
S]	TE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
DF	RIVEN PILING FOR TEMPORARY SHORING FROM STATION -L- 162+59 +/-,
9	5' +/- RT, TO STATION -L- 163+50 +/-, 5.8' +/- RT, MAY NOT PENETRA
BE	ELOW ELEVATION 2727 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOI
B(	OULDERS OR WEATHERED OR HARD ROCK.
D(	) NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION
- [	162+59 +/-, 9.5' +/- RT, TO STATION -L- 163+50 +/-, 5.8' +/- RT.
I	MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY
SH	ORING FROM STATION -L- 162+59 +/-, 9.5' +/- RT, TO STATION
- L	163+50 +/-, 5.8' +/- RT. FOR TEMPORARY SOIL NAIL WALLS, SEE
TE	EMPORARY SOIL NAIL WALLS PROVISION.
Sł	noring Location No. $\langle 2  angle$
F(	OR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING
Se	E PLANS AND TEMPORARY SHORING PROVISION.
TE	EMPORARY SHORING IS REQUIRED FOR THE BRIDGE END BENT INSTALLATION
FF	ROM STATION -L- 165+33 +/-, 2.6' +/- RT, TO STATION -L- 165+92 +/-
2	6' +/- RT.
BE	FORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY
E)	(ISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO
DE	ETERMINE ACTUAL SHORING HEIGHTS.
DE	ESIGN TEMPORARY SHORING FROM STATION -L- 165+33 +/-, 2.6' +/- RT,
T(	STATION -L- 165+92 +/-, 2.6' +/- RT, FOR THE FOLLOWING ASSUMED SO
P/	RAMETERS AND GROUNDWATER ELEVATION:
	UNIT WEIGHT $(\gamma) = 120 \text{ LB/CF}$ FRICTION ANGLE $(\phi) = 30 \text{ DEGREES}$ COHESION (c) = 0 LB/SF GROUNDWATER ELEVATION = 2740 FT
L I	MITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF
TE	MPORARY SHORING FROM STATION -L- 165+33 +/-, 2.6' +/- RT, TO STAT
- L	- 165+92 +/-, 2.6' +/- RT. THE INFORMATION PROVIDED FOR TEMPORARY
SH	HORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL
SI	TE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
DF	RIVEN PILING FOR TEMPORARY SHORING FROM STATION -L- 165+33 +/-,
2	6' +/- RT, TO STATION -L- 165+92 +/-, 2.6' +/- RT, MAY NOT PENETRA
BE	ELOW ELEVATION 2742 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SC
B(	DULDERS OR WEATHERED OR HARD ROCK.
D(	) NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION
- L	165+33 +/-, 2.6' +/- RT, TO STATION -L- 165+92 +/-, 2.6' +/- RT.
I Sł	MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY ORING FROM STATION -L- 165+33 +/-, 2.6' +/- RT, TO STATION 165+92 +/-, 2.6' +/- RT. FOR TEMPORARY SOIL NAIL WALLS, SEE EMPORARY SOIL NAIL WALLS PROVISION.

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	Shoring Location No. $\langle 3  angle$	THE TEMPORAR
ING,	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING SEE PLANS AND TEMPORARY SHORING PROVISION.	, WAS SUBMITTE PROFESSIONAL
ON RT. Y	TEMPORARY SHORING IS REQUIRED FOR THE BRIDGE BENT INSTALLATION FROM STATION -L- 162+57 +/-, 11.5' +/- RT, TO STATION -L- 162.87 +/-, 11.1' +/- RT.	
то , то	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	
ÍL	DESIGN TEMPORARY SHORING FROM STATION -L- 162+57 +/-, 11.5' +/- RT, STATION -L- 162.87 +/-, 11.1' +/- RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:	ТО
ATION	UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF FRICTION ANGLE ( $\phi$ )= 30 DEGREES COHESION (c) = 0 LB/SF GROUNDWATER ELEVATION = 2730 FT	
RY AL TRATE	LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- 162+57 +/-, 11.5' +/- RT, TO STAT -L- 162.87 +/-, 11.1' +/- RT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.	ION
SOIL, RT.	AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 162+57 +/-, 11.5' +/- RT, TO STAT -L- 162.87 +/-, 11.1' +/- RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.	ION
ARY	WHEN BACKFILL FOR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCE ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.	D
	Shoring Location No. $\overline{4}$	
ING,	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING SEE PLANS AND TEMPORARY SHORING PROVISION.	3
DN / - ,	TEMPORARY SHORING IS REQUIRED FOR THE BRIDGE BENT INSTALLATION FROM STATION -L- 165+62 +/-, 8.6' +/- RT, TO STATION -L- 165+89 +/-, 8.6' +/- RT.	
ТО	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	
SOIL	DESIGN TEMPORARY SHORING FROM STATION -L- 165+62 +/-, 8.6' +/- RT, T STATION -L- 165+89 +/-, 8.6' +/- RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:	0
	UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF FRICTION ANGLE ( $\phi$ )= 30 DEGREES COHESION (c) = 0 LB/SF GROUNDWATER ELEVATION = 2740 FT	
ATION RY AL	LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- 165+62 +/-, 8.6' +/- RT, TO STATI -L- 165+89 +/-, 8.6' +/- RT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.	ON
SOIL,	AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 165+62 +/-, 8.6' +/- RT, TO STATI -L- 165+89 +/-, 8.6' +/- RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.	ON
ARY	WHEN BACKFILL FOR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCE ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.	D
	I	Correction DocuSigned by:
		APPROVED: Bob l. May

		APPROVED: Bob l. May	
		DATE:	TH CAROL AND CAROL
ETHERILL ENGINEERING	1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107		SEAL 21116 <i>MG   NE FR.</i>
TRANSPORTATION PLANNING/DESIGN - BR CIVIL/SITE DESIGN - GIS/GPS - CONSTR	IDGE/STRUCTURE DESIGN UCTION OBSERVATION	DOCUMENT NOT CO UNLESS ALL SIGNAT	ONSIDERED FINAL FURES COMPLETED

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AL ENGINEER, SHIPING YANG, LICENSE # 03	SEALED BY A 1361.	
SEAL 21116 WG INFERS	ORARY SHOR	ING DATA
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