



PROJ. REFERENCE NO.	SHEET NO.
U-2408	TCP-9A

NOTE: THE STANDARD SHORING DESIGN CANNOT BE USED. THE CONTRACTOR IS RESPONSIBLE FOR SHORING DESIGN AT THIS LOCATION.

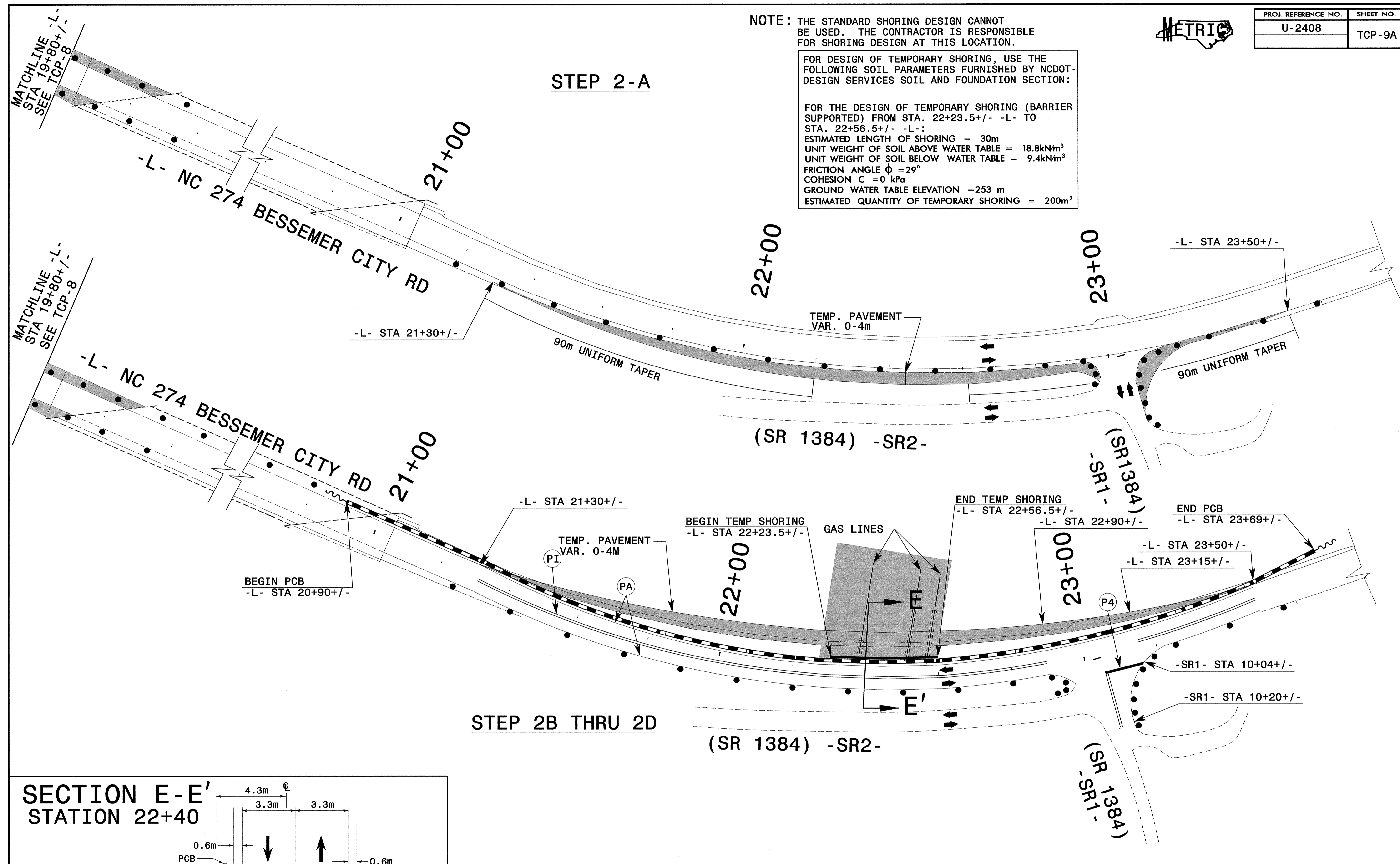
FOR DESIGN OF TEMPORARY SHORING, USE THE FOLLOWING SOIL PARAMETERS FURNISHED BY NCDOT-DESIGN SERVICES SOIL AND FOUNDATION SECTION:

FOR THE DESIGN OF TEMPORARY SHORING (BARRIER SUPPORTED) FROM STA. 22+23.5+/- -L- TO STA. 22+56.5+/- -L-:

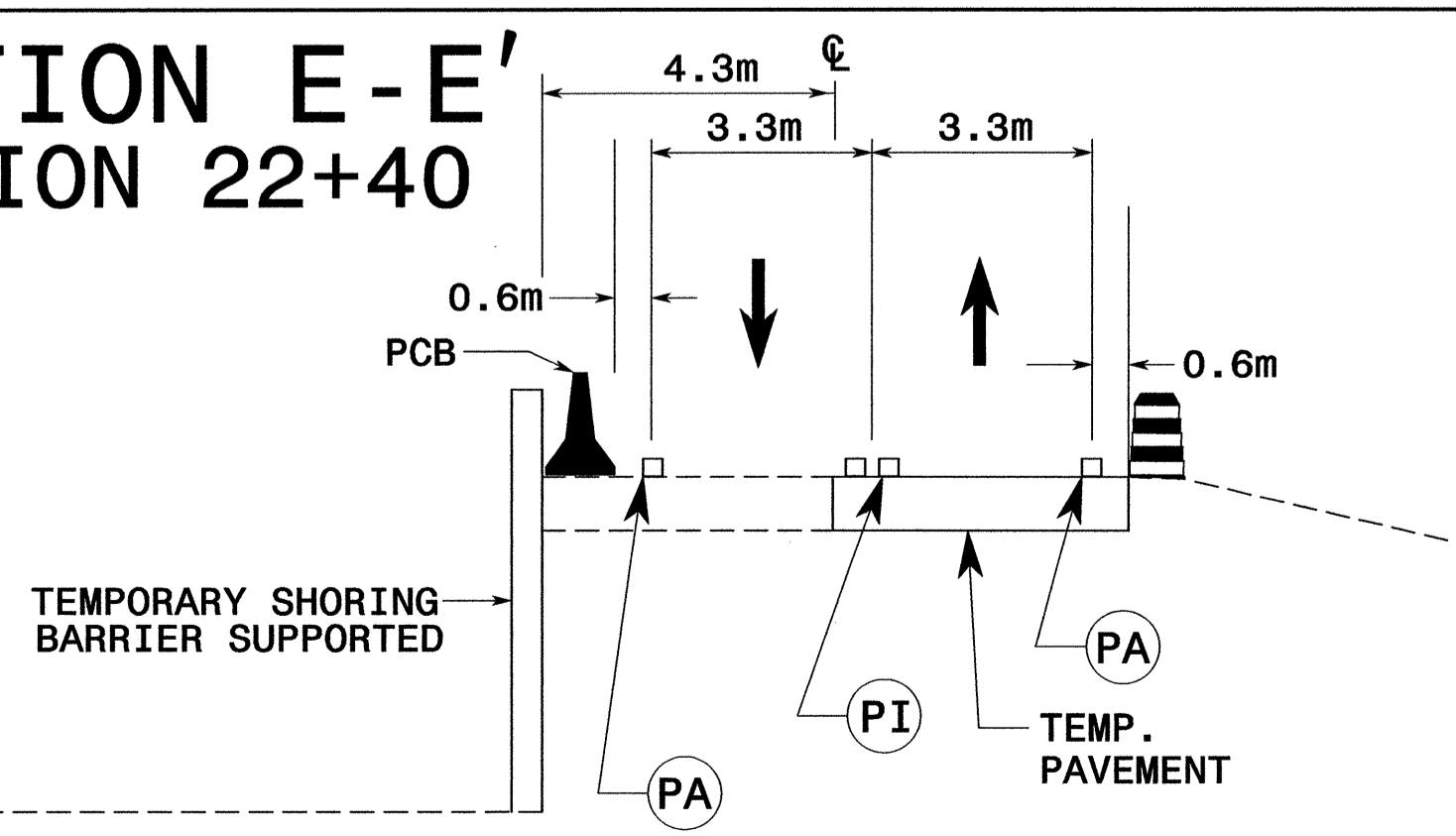
ESTIMATED LENGTH OF SHORING = 30m
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE = 18.8kN/m³
 UNIT WEIGHT OF SOIL BELOW WATER TABLE = 9.4kN/m³
 FRICTION ANGLE $\phi = 29^\circ$
 COHESION C = 0 kPa
 GROUND WATER TABLE ELEVATION = 253 m
 ESTIMATED QUANTITY OF TEMPORARY SHORING = 200m²

STEP 2-A

STEP 2B THRU 2D



SECTION E-E'
STATION 22+40



SEPI ENGINEERING GROUP
 2300 Rexwoods Drive
 Suite 310
 Raleigh, NC 27607
 Tel: 919-789-9977 Fax: 789-9591

APPROVED: _____ DATE: _____

SEAL

SEAL

20104

ENGINEER

SEPTEMBER 5, 1997

9/1/04

PHASE I
(GAS LINE CONSTRUCTION)

SCALE:	NONE		<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS							
REVISIONS											
DATE:	7-04										
DWG. BY:	CEK										
DESIGN BY:	RCD										
REVIEWED BY:	RLW	CADD FILE									