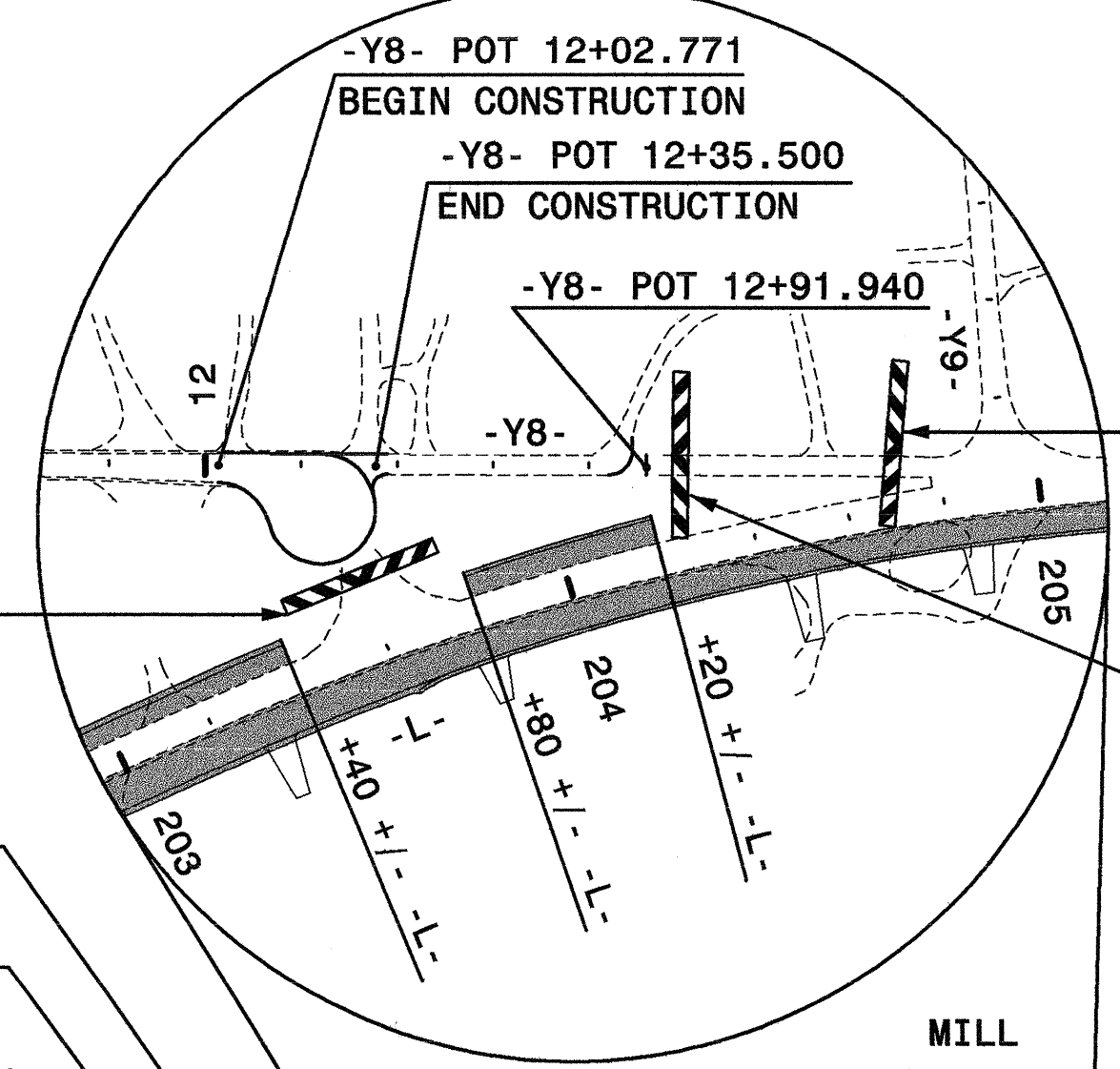




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 5565 CENTERVIEW DRIVE, SUITE 107  
 RALEIGH, NORTH CAROLINA 27606  
 (919) 851-1919

PROJ. REFERENCE NO.	SHEET NO.
R-2539C	TCP-7

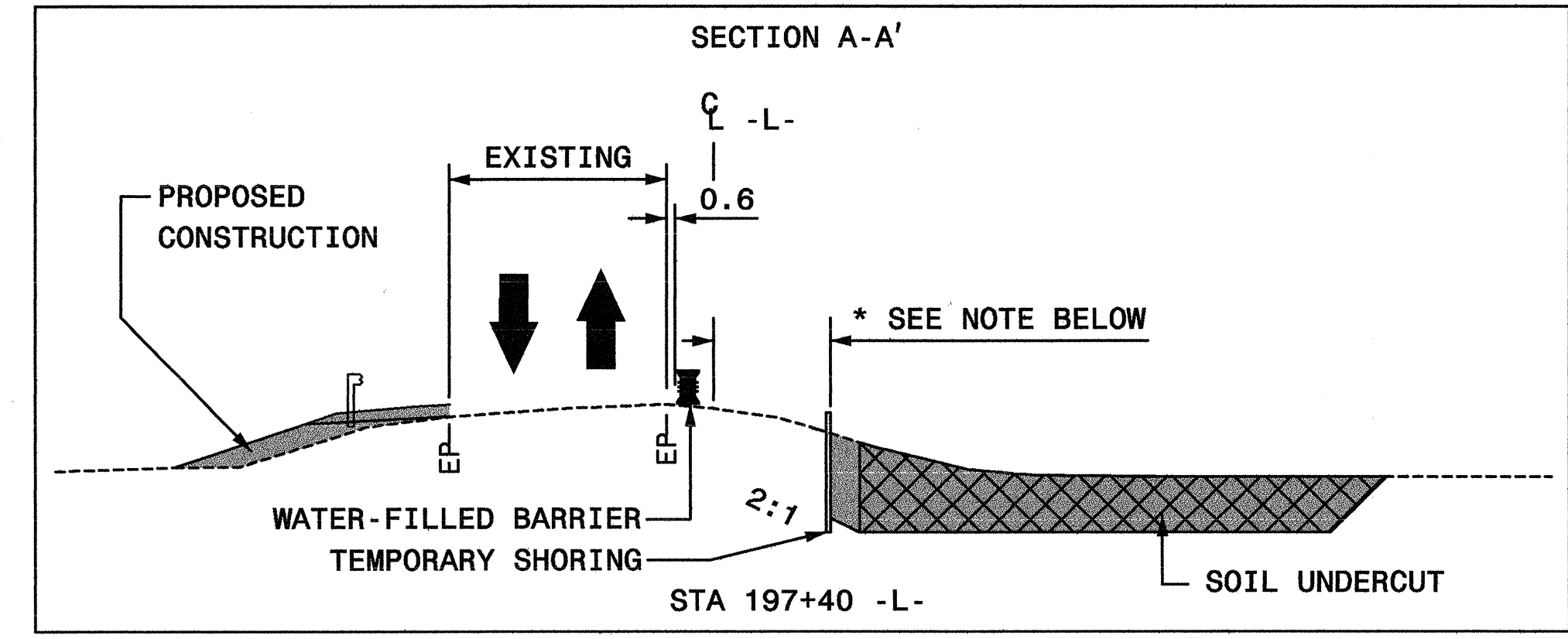
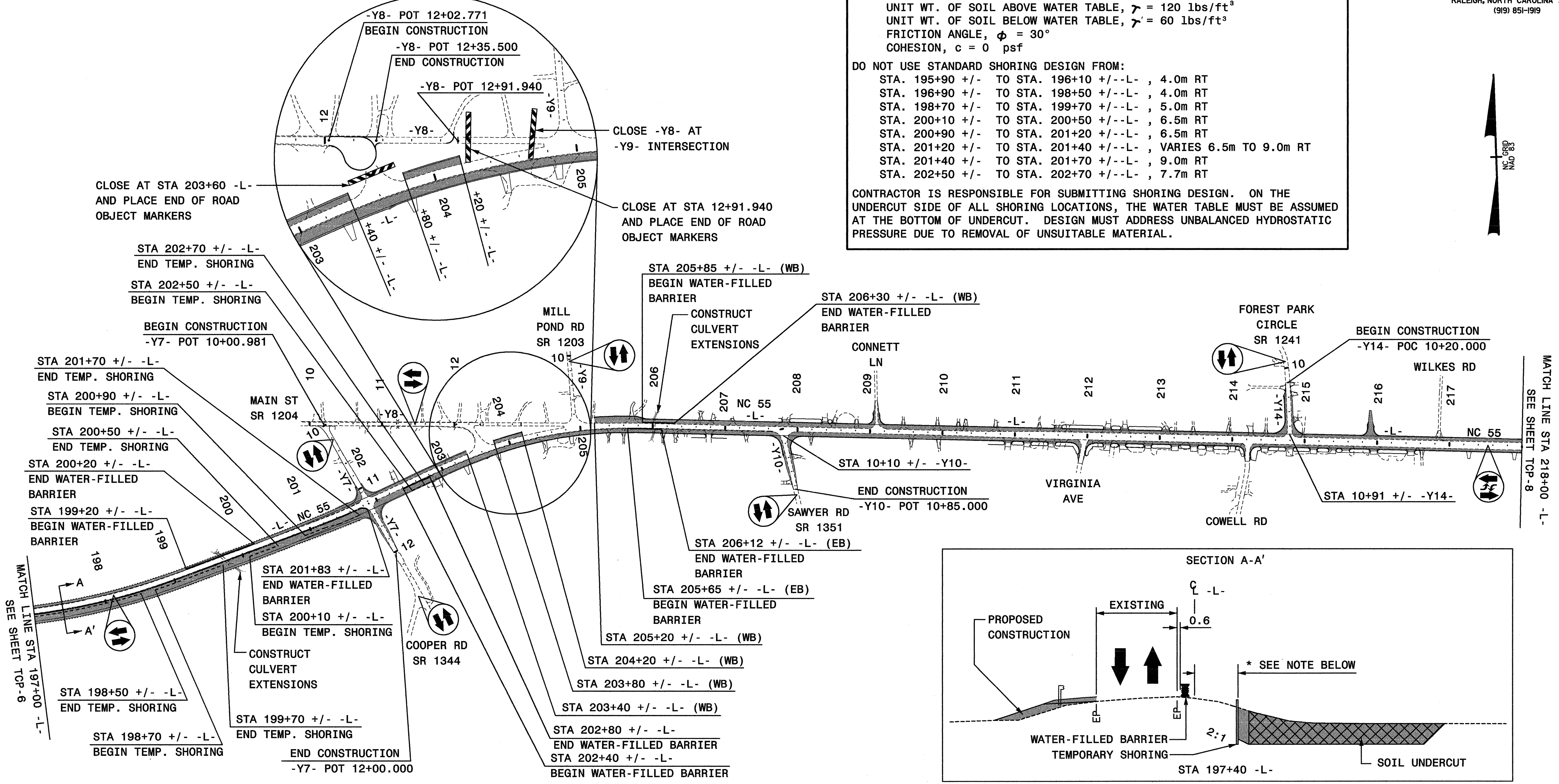
**INSET A**



FOR DESIGN OF TEMPORARY SHORING, USE THE FOLLOWING SOIL PARAMETERS:  
 UNIT WT. OF SOIL ABOVE WATER TABLE,  $\gamma = 120 \text{ lbs/ft}^3$   
 UNIT WT. OF SOIL BELOW WATER TABLE,  $\gamma' = 60 \text{ lbs/ft}^3$   
 FRICTION ANGLE,  $\phi = 30^\circ$   
 COHESION,  $c = 0 \text{ psf}$

DO NOT USE STANDARD SHORING DESIGN FROM:  
 STA. 195+90 +/- TO STA. 196+10 +/- -L-, 4.0m RT  
 STA. 196+90 +/- TO STA. 198+50 +/- -L-, 4.0m RT  
 STA. 198+70 +/- TO STA. 199+70 +/- -L-, 5.0m RT  
 STA. 200+10 +/- TO STA. 200+50 +/- -L-, 6.5m RT  
 STA. 200+90 +/- TO STA. 201+20 +/- -L-, 6.5m RT  
 STA. 201+20 +/- TO STA. 201+40 +/- -L-, VARIES 6.5m TO 9.0m RT  
 STA. 201+40 +/- TO STA. 201+70 +/- -L-, 9.0m RT  
 STA. 202+50 +/- TO STA. 202+70 +/- -L-, 7.7m RT

CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHORING DESIGN. ON THE UNDERCUT SIDE OF ALL SHORING LOCATIONS, THE WATER TABLE MUST BE ASSUMED AT THE BOTTOM OF UNDERCUT. DESIGN MUST ADDRESS UNBALANCED HYDROSTATIC PRESSURE DUE TO REMOVAL OF UNSUITABLE MATERIAL.

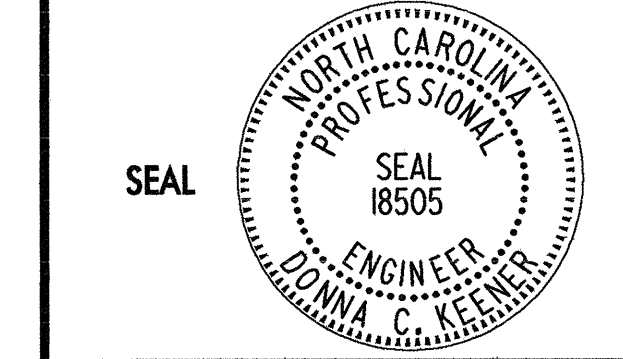


NOTE: THIS CUT SECTION IS TYPICAL FOR ALL TEMPORARY SHORING LOCATIONS.  
 STA 195+90 +/- -L- TO STA 196+10 +/- -L- = 4.0m RT  
 STA 196+90 +/- -L- TO STA 198+50 +/- -L- = 4.0m RT  
 STA 198+70 +/- -L- TO STA 199+70 +/- -L- = 5.0m RT  
 STA 200+10 +/- -L- TO STA 200+50 +/- -L- = 6.5m RT  
 STA 200+90 +/- -L- TO STA 201+20 +/- -L- = 6.5m RT  
 STA 201+20 +/- -L- TO STA 201+40 +/- -L- = VARIES 6.5m TO 9m RT  
 STA 201+40 +/- -L- TO STA 201+70 +/- -L- = 9m RT  
 STA 202+50 +/- -L- TO STA 202+70 +/- -L- = 7.7m RT

**LEGEND**

- = PROPOSED CONSTRUCTION AND/OR RESURFACING
- = WEDGING & WIDENING

APPROVED: *Don Keener* DATE: 9-3-04



**PHASE I OVERVIEW (C)**

SCALE:	NONE		REVISIONS
DATE:	8/2/04		
DWG. BY:	RPS/PMW		
DESIGN BY:	PMW		
REVIEWED BY:	DCK		

\$\$\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$\$\$\$USER\$\$\$\$\$