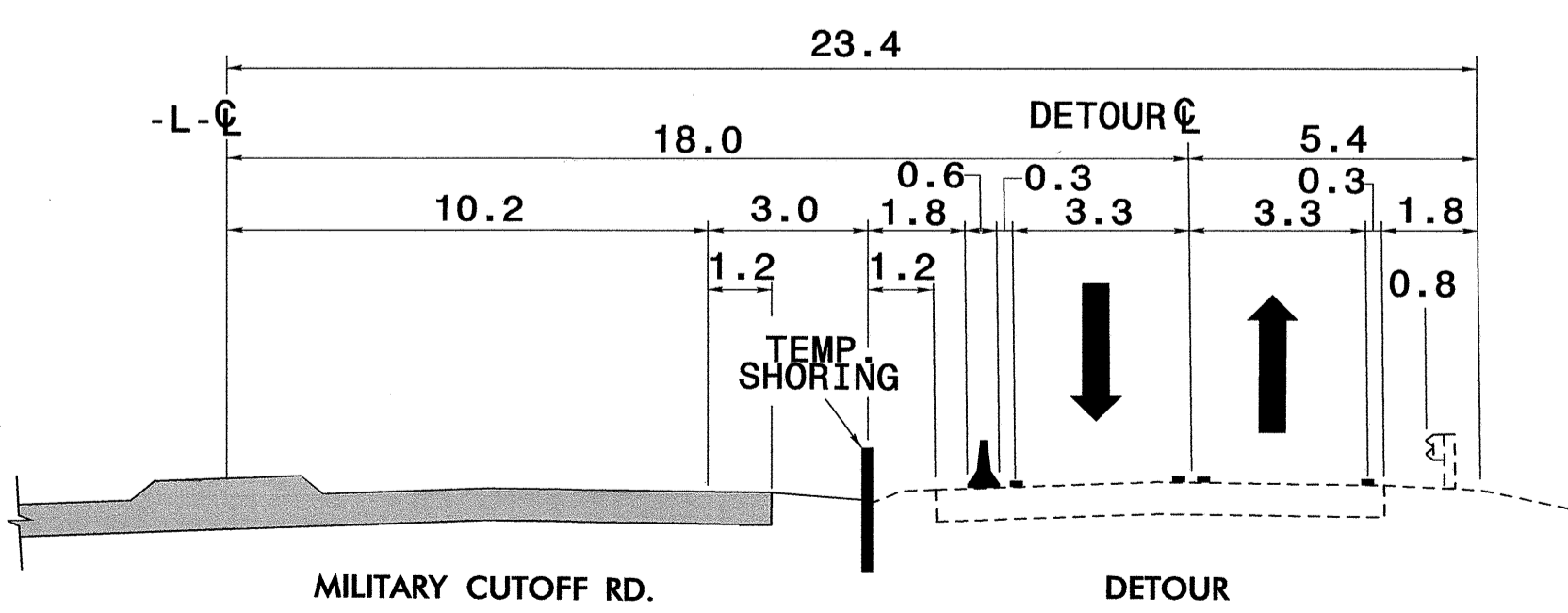
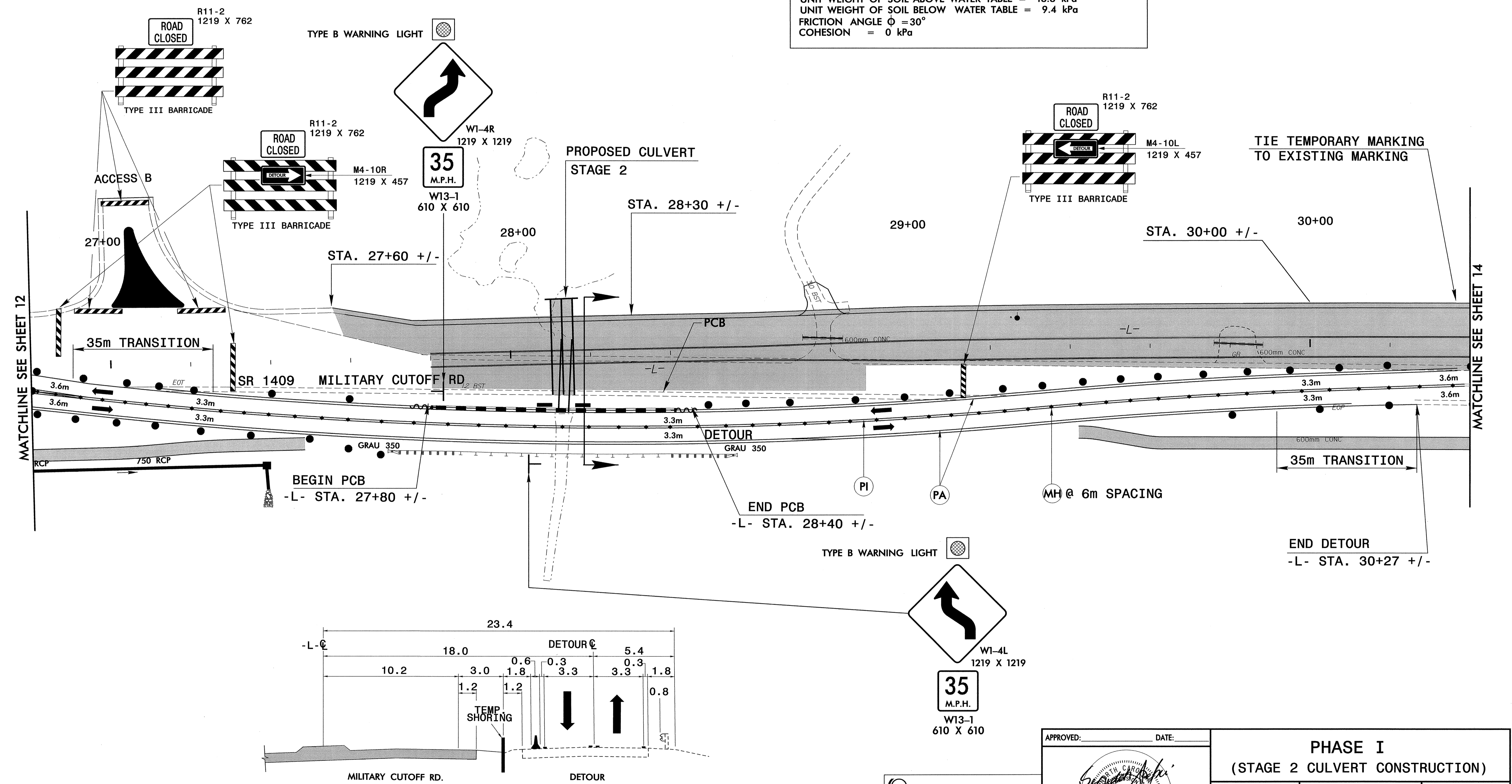
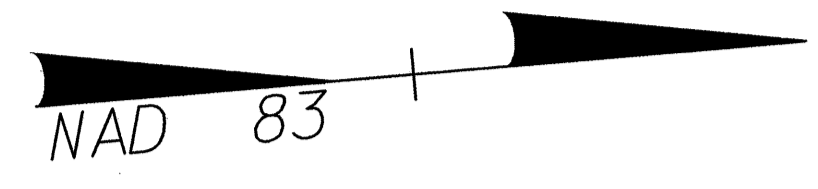




****NOTE:** THE STANDARD SHORING DESIGN CAN BE USED.

FOR DESIGN OF TEMPORARY SHORING, USE THE FOLLOWING SOIL PARAMETERS FURNISHED BY NCDOT:
 FROM STA. 28+05+/- -L- RT. TO STA. 28+10+/- -L- RT.
 FROM STA. 28+15+/- -L- RT. TO STA. 28+20+/- -L- RT.
 FROM STA. 28+05+/- -L- RT. TO STA. 28+10+/- -L- RT.
 FROM STA. 28+15+/- -L- RT. TO STA. 28+20+/- -L- RT.

ESTIMATED LENGTH OF SHORING = 12m
 ESTIMATED HEIGHT OF SHORING = 3.0m
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE = 18.8 kPa
 UNIT WEIGHT OF SOIL BELOW WATER TABLE = 9.4 kPa
 FRICTION ANGLE $\phi = 30^\circ$
 COHESION = 0 kPa



SEPI ENGINEERING GROUP
 2300 Rexwoods Drive
 Suite 370
 Raleigh, NC 27607
 Tel: 919-789-9977 Fax: 789-9591

APPROVED: _____ DATE: _____	PHASE I (STAGE 2 CULVERT CONSTRUCTION)	
SCALE: NONE		
DATE: 12/03		REVISIONS
DWG. BY: NH		
DESIGN BY: RLW		
REVIEWED BY: SSA		