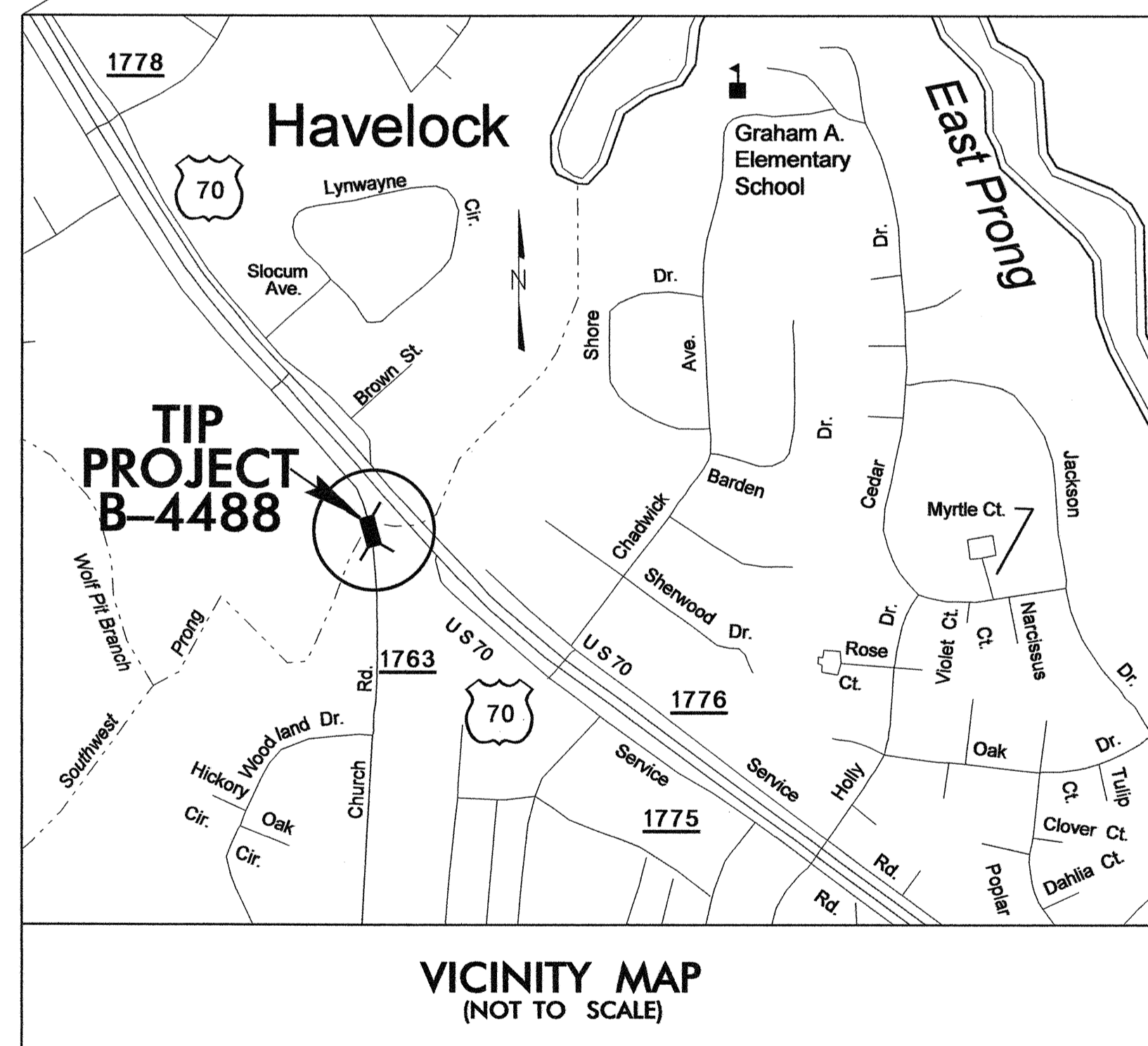
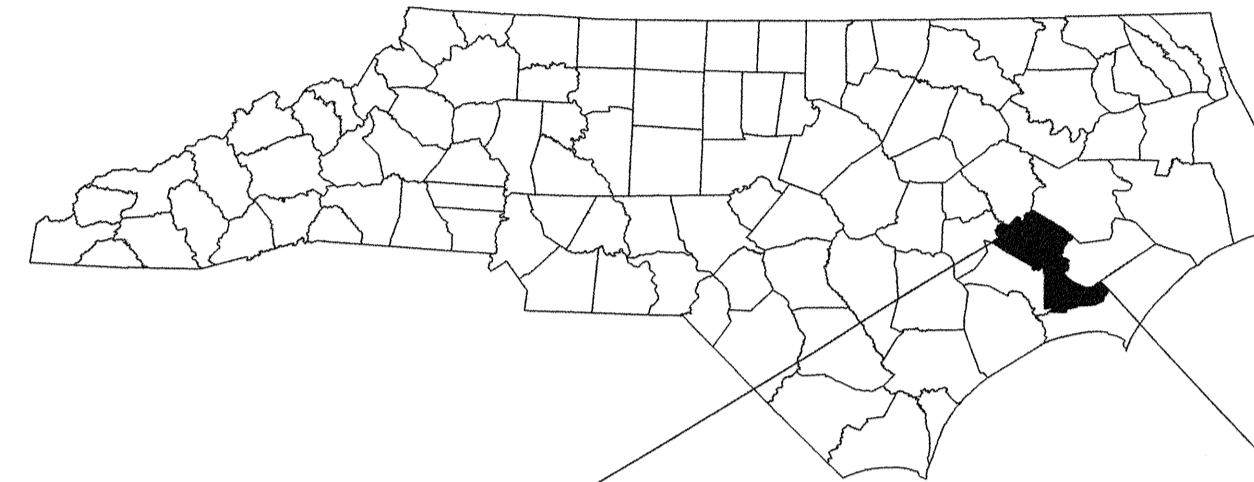


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**CRAVEN COUNTY**



**INDEX OF SHEETS**

SHEET NO.	TITLE
TMP-1	TITLE SHEET WITH VICINITY MAP & INDEX OF SHEETS, LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND.
TMP-2	PROJECT NOTES, DETOUR AND PLANS.
TMP-2A	TEMPORARY SHORING NOTES.

**LEGEND**

**GENERAL**

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT.
- EXIST. PVMT.
- WORK AREA

**TRAFFIC CONTROL DEVICES**

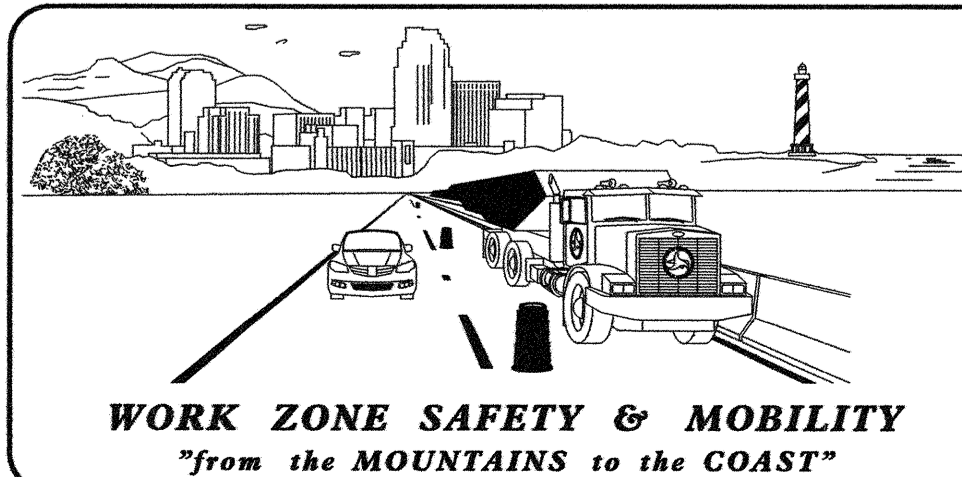
- BARRICADE (TYPE III)

SHEET NO.  
TMP-1

**B-4488**

**TIP PROJECT:**

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 \$\$\$USERNAME\$\$\$



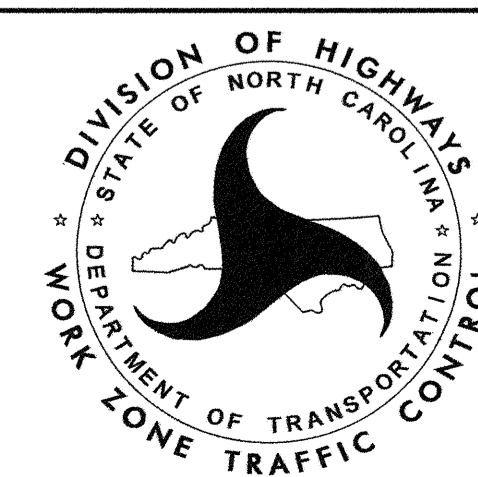
**N.C.D.O.T. WORK ZONE TRAFFIC CONTROL**  
P.O. BOX 1587, GREENVILLE, NC 27835  
105 PACTOLUS HWY. (NC 33), GREENVILLE, NC 27835  
PHONE: (252) 830-3490 FAX: (252) 830-3352

STEVEN HAMILTON, PE **TRAFFIC ENGINEER**

D. H. ALLIGOOD, PE **TRAFFIC CONTROL PROJECT ENGINEER**

D. H. ALLIGOOD, PE **TRAFFIC CONTROL PROJECT DESIGN ENGINEER**

LANG JONES **TRAFFIC CONTROL DESIGN ENGINEER**



APPROVED: *Dwayne H. Alligood*  
DATE: 07/18/2012

SEAL



# TEMPORARY SHORING NOTES

**TEMPORARY SHORING NO. 1**

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING PROVISION.

DO NOT USE STANDARD TEMPORARY SHORING FROM -L- STA. 16+18±, 30 FT± LEFT TO -L- STA. 17+05, 20 FT± LEFT.

DO NOT USE A TEMPORARY MSE WALL FROM -L- STA. 16+18±, 30 FT± LEFT TO -L- STA. 17+05, 20 FT± LEFT.

WHEN USING CONTRACTOR DESIGNED SHORING FROM -L- STA. 16+18±, 30 FT± LEFT TO -L- STA. 17+05, 20 FT± LEFT, DESIGN SHORING FOR THE FOLLOWING INSITU ASSUMED SOIL PARAMETERS:

WATER TABLE ELEVATION = 0.0 FT

FOR SOIL LAYER ABOVE ELEVATION -10.0 FT:  
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE,  $\gamma = 95$  PCF  
 UNIT WEIGHT OF SOIL BELOW WATER TABLE,  $\gamma' = 35$  PCF  
 FRICTION ANGLE,  $\phi = 0$   
 COHESION,  $c = 150$  PSF

FOR SOIL LAYER BELOW ELEVATION -10.0 FT:  
 UNIT WEIGHT OF SOIL BELOW WATER TABLE,  $\gamma' = 60$  PCF  
 FRICTION ANGLE,  $\phi = 30$   
 COHESION,  $c = 0$  PSF

DRIVEN PILING FOR TEMPORARY SHORING FROM -L- STA. 16+18±, 30 FT± LEFT TO -L- STA. 17+05, 20 FT± LEFT MAY NOT PENETRATE BELOW ELEVATION -32.5 FT DUE TO THE PRESENCE OF AN OBSTRUCTION, VERY DENSE OR HARD SOIL, WEATHERED OR HARD ROCK.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

In addition, temporary shoring may be required for undercut at End Bent No. 2 right side and along the end slope stake line. Include an additional quantity of 1200 square feet of temporary shoring in the contract as contingency item. Also, include the following notes on the roadway plans:

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING PROVISION.

DO NOT USE STANDARD TEMPORARY SHORING FOR UNDERCUT AT END BENT NO. 2 RIGHT SIDE AND ALONG THE END SLOPE STAKE LINE.

DO NOT USE A TEMPORARY MSE WALL FOR UNDERCUT AT END BENT NO. 2 RIGHT SIDE AND ALONG THE END SLOPE STAKE LINE.

WHEN USING CONTRACTOR DESIGNED SHORING FOR UNDERCUT AT END BENT NO. 2 RIGHT SIDE AND ALONG THE END SLOPE STAKE LINE, DESIGN SHORING FOR THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:

WATER TABLE ELEVATION = 0.0 FT

FOR SOIL LAYER ABOVE ELEVATION -10.0 FT:  
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE,  $\gamma = 85$  PCF  
 UNIT WEIGHT OF SOIL BELOW WATER TABLE,  $\gamma' = 25$  PCF  
 FRICTION ANGLE,  $\phi = 0$   
 COHESION,  $c = 50$  PSF

FOR SOIL LAYER BELOW ELEVATION -10.0 FT:  
 UNIT WEIGHT OF SOIL BELOW WATER TABLE,  $\gamma' = 60$  PCF  
 FRICTION ANGLE,  $\phi = 30$   
 COHESION,  $c = 0$  PSF

DRIVEN PILING FOR TEMPORARY SHORING FOR UNDERCUT AT END BENT NO. 2 RIGHT SIDE AND ALONG THE END SLOPE STAKE LINE MAY NOT PENETRATE BELOW ELEVATION -32.5 FT DUE TO THE PRESENCE OF AN OBSTRUCTION, VERY DENSE OR HARD SOIL, WEATHERED OR HARD ROCK.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

\$\$\$SYTIME\$\$\$\$  
 \$\$\$USERNAME\$\$\$\$  
 \$\$\$CADD FILE\$\$\$\$

APPROVED:	<b>TEMPORARY SHORING NOTES</b>		
SEAL	SCALE: NONE		REVISIONS
	DATE:		
	DWG. BY:		
	DESIGN BY:		
	REVIEWED BY:		
		<small>CADD FILE</small>	