

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
R-3833B	TCP-1

**PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION
IREDELL COUNTY**

R-3833B

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-
ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C.,
DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE
CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1135.01	CONES
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - INTERCHANGES
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
TCP-2 & 2A	GENERAL NOTES
TCP-3-3C	PHASING
TCP-4	TEMPORARY PAVEMENT MARKING SCHEDULE
TCP-5	TEMPORARY SHORING
TCP-6-10A	AREA I PHASE I DETAILS
TCP-11-16	AREA II PHASE I DETAILS
TCP-17-20	AREA I PHASE II DETAILS
TCP-21 & 22	AREA II PHASE II DETAILS
TCP-23	AREA II PHASE II OFFSITE DETOUR
TCP-24-26	ADVANCE WORK ZONE WARNING SIGNS
TCP-27	LANE CLOSURE SWITCHES

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
 - TYPE II BARRICADE
 - TYPE III BARRICADE
 - CONE
 - DRUM
 - FLASHING ARROW PANEL (TYPE C)
 - TYPE 'B' WARNING LIGHT
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - WARNING FLAGS
 - CRASH CUSHION
 - CHANGEABLE MESSAGE SIGN
 - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
 - POLICE
 - FLAGGER
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
 - YELLOW/YELLOW PAVEMENT MARKER
 - CRYSTAL/RED PAVEMENT MARKER
 - PAVEMENT MARKING SYMBOLS

NOTE: TRAFFIC CONTROL PHASING AND DETAILS FOR THIS PROJECT ARE DIVIDED INTO TWO AREAS. CONSTRUCTION MAY PROCEED CONCURRENTLY IN BOTH AREAS UNLESS OTHERWISE STATED IN THE PROJECT PHASING.

AREA 1 CONSISTS OF BRAWLEY SCHOOL RD (-L-) AND ALL -Y- LINES EXCEPT I-77 (Y6-)
AREA 2 CONSISTS OF I-77 (-Y6-)

APPROVED:	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
DATE: <i>November 4, 2008</i>	
SEAL	J. S. BOURNE, PE <u>TRAFFIC CONTROL ENGINEER</u>
	J. S. KITE, PE <u>TRAFFIC CONTROL PROJECT ENGINEER</u>
	D. A. PARKER <u>TRAFFIC CONTROL PROJECT DESIGN ENGINEER</u>
	D. V. JOYNER <u>TRAFFIC CONTROL DESIGN ENGINEER</u>

TIP PROJECT:

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM QUANTITY BREAKDOWN	TOTAL QUANTITY
<u>PAVEMENT MARKING LINES</u>			
<u>GOLD APPLIED PLASTIC (4") TYPE 4 -REMOVABLE TAPE</u>			
CA	WHITE EDGELINE	1000 LF	
CI	YELLOW DOUBLE CENTER LINE	1000 LF	2000 LF
<u>PAINT (4")</u>			
PA	WHITE EDGELINE	87270 LF	
PB	YELLOW EDGELINE	49380 LF	
PC	10' WHITE SKIP	32145 LF	
PD	2' WHITE MINI SKIP	4575 LF	
PE	WHITE SOLID LANE LINE	40110 LF	
PI	YELLOW DOUBLE CENTER LINE	41640 LF	255120 LF
<u>PAINT (8")</u>			
PR	WHITE GORELINE	20610 LF	
PX	WHITE CROSSWALK LINE	3630 LF	
PV	YELLOW DIAGONALS	615 LF	24855 LF
<u>PAINT (24")</u>			
P4	WHITE STOPBAR	1500 LF	1500 LF
<u>PAINT SYMBOLS</u>			
QA	LEFT TURN ARROW	60 EA	
QB	RIGHT TURN ARROW	60 EA	
QC	STRAIGHT ARROW	60 EA	
QE	COMBO STRAIGHT/RIGHT ARROW	30 EA	210 EA
<u>PAINT CHARACTERS</u>			
QI	ALPHA NUMERIC CHARACTER	144 EA	144 EA
<u>TEMPORARY RAISED MARKERS</u>			
MH	YELLOW/YELLOW	300 EA	
MI	CRYSTAL/RED	3000 EA	3300 EA

04-NOV-2008 11:50
 \\dot\dfsroot\01\Proj\TIP\Projects-r\3833b\tr\affio\tr\affiocontrol\top\tr-3833b_top-04.dgn
 akp\atel AT WZTC244748

APPROVED: DATE: 11/08 	TEMPORARY PAVEMENT MARKING SCHEDULE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: small;">SCALE:</td> <td>NONE</td> </tr> <tr> <td style="font-size: small;">DATE:</td> <td>11/08</td> </tr> <tr> <td style="font-size: small;">DWG. BY:</td> <td>AKP</td> </tr> <tr> <td style="font-size: small;">DESIGN BY:</td> <td>AKP</td> </tr> <tr> <td style="font-size: small;">REVIEWED BY:</td> <td>DAP</td> </tr> </table>	SCALE:	NONE	DATE:	11/08	DWG. BY:	AKP	DESIGN BY:	AKP	REVIEWED BY:	DAP
SCALE:	NONE											
DATE:	11/08											
DWG. BY:	AKP											
DESIGN BY:	AKP											
REVIEWED BY:	DAP											
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">REVISIONS</th> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> </table>	REVISIONS									
REVISIONS												

TEMPORARY SHORING NOTES

PROJ. REFERENCE NO. R-3833B	SHEET NO. TCP-5A
--------------------------------	---------------------

TEMPORARY SHORING LOCATION NO. 1 (AS SHOWN ON TCP-07)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

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

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 264+75.00+/- -L-, 6 FT. LEFT OF -L-, TO STATION 264+95.00+/- -L-, 6 FT. LEFT OF -L-, USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 264+75.00+/- -L-, 6 FT. LEFT OF -L-, TO STATION 264+95.00+/- -L-, 6 FT. LEFT OF -L-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 60 SF

TEMPORARY SHORING LOCATION NO. 3 (AS SHOWN ON TCP-07)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

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

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 264+85.00+/- -L-, 5 FT. RIGHT OF -L-, TO STATION 265+30.00+/- -L-, 5 FT. RIGHT OF -L-, USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEG
 COHESION, $c = 0$ PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 264+85.00+/- -L-, 5 FT. RIGHT OF -L-, TO STATION 265+30.00+/- -L-, 5 FT. RIGHT OF -L-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 315 SF

TEMPORARY SHORING LOCATION NO. 5 (AS SHOWN ON TCP-08)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

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

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 278+58.00+/- -L-, 5 FT. LEFT OF -L-, TO STATION 279+17.00+/- -L-, 5 FT. LEFT OF -L-, USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 278+58.00+/- -L-, 5 FT. LEFT OF -L-, TO STATION 279+17.00+/- -L-, 5 FT. LEFT OF -L-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 531 SF

TEMPORARY SHORING LOCATION NO. 2 (AS SHOWN ON TCP-07)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

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

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 265+35.00+/- -L-, 6 FT. LEFT OF -L-, TO STATION 265+45.00+/- -L-, 6 FT. LEFT OF -L-, USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEG
 COHESION, $c = 0$ PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 265+35.00 +/- -L-, 6 FT. LEFT OF -L-, TO STATION 265+45.00 +/- -L-, 6 FT. LEFT OF -L-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 30 SF

TEMPORARY SHORING LOCATION No. 4 (AS SHOWN ON TCP-08)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

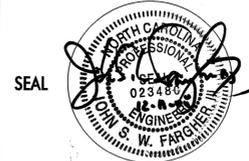
FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 276+67.00+/- -L-, 5 FT. LEFT OF -L-, TO STATION 277+21.00+/- -L-, 5 FT. LEFT OF -L-, USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 276+67.00+/- -L-, 5 FT. LEFT OF -L-, TO STATION 277+21.00+/- -L-, 5 FT. LEFT OF -L-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 432 SF

APPROVED: _____	DATE: _____	TEMPORARY SHORING NOTES	
	SCALE: NONE		REVISIONS
	DATE: DEC 08		
	DWG. BY:		
	DESIGN BY:		
REVIEWED BY:			

I:\DEC-2008 09458
 ch:\documents\and\settings\mbabalola\local\settings\temporary internet files\volk2d\vr-3833b.tc.tcp_05abc.temp shoring notes.dgn
 mbabalola AT 09/24/08

TEMPORARY SHORING NOTES

PROJ. REFERENCE NO. R-3833B	SHEET NO. TCP-5B
--------------------------------	---------------------

TEMPORARY SHORING LOCATION NO. 6 (AS SHOWN ON TCP-08)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

DO NOT USE STANDARD SHORING FROM STATION 276+53.00+/- -L-, ZERO FEET OF -L-, TO STATION 277+15.00+/- -L-, ZERO FEET OF -L-.

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

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 276+53.00+/- -L-, ZERO FEET OF -L-, TO STATION 277+15.00+/- -L-, ZERO FEET OF -L-, USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 276+53.00+/- -L-, ZERO FEET OF -L-, TO STATION 277+15.00+/- -L-, ZERO FEET OF -L-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 1178 SF

TEMPORARY SHORING LOCATION NO. 8 (AS SHOWN ON TCP-12)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION

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

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 31+80.00+/- -Y6-, 62 FEET RIGHT OF -Y6-, TO STATION 37+20.00+/- -Y6-, 62 FEET RIGHT OF -Y6-, USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 31+80.00+/- -Y6-, 62 FEET RIGHT OF -Y6-, TO STATION 37+20.00+/- -Y6-, 62 FEET RIGHT OF -Y6-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 4320 SF

TEMPORARY SHORING LOCATION No. 10

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION

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

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 55+00.00+/- -Y6-, 9 FEET RIGHT OF -Y6-, TO STATION 56+10.00+/- -Y6-, 9 FEET RIGHT OF -Y6-, USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 55+00.00+/- -Y6-, 9 FEET RIGHT OF -Y6-, TO STATION 56+10.00+/- -Y6-, 9 FEET RIGHT OF -Y6-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 770 SF

TEMPORARY SHORING LOCATION NO. 7 (AS SHOWN ON TCP-08)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION

DO NOT USE STANDARD SHORING FROM STATION 278+63.00+/- -L-, ZERO FEET OF -L-, TO STATION 279+29.00+/- -L-, ZERO FEET OF -L-.

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

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 278+63.00+/- -L-, ZERO FEET OF -L-, TO STATION 279+29.00+/- -L-, ZERO FEET OF -L-, USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 278+63.00+/- -L-, ZERO FEET OF -L-, TO STATION 279+29.00+/- -L-, ZERO FEET OF -L-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 1188 SF

TEMPORARY SHORING LOCATION NO. 9

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION

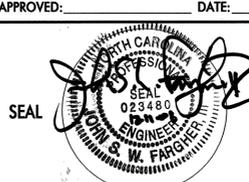
FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 55+00.00+/- -Y6-, 9 FEET LEFT OF -Y6-, TO STATION 56+10.00+/- -Y6-, 9 FEET LEFT OF -Y6-, USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 55+00.00+/- -Y6-, 9 FEET LEFT OF -Y6-, TO STATION 56+10.00+/- -Y6-, 9 FEET LEFT OF -Y6-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 770 SF

APPROVED:	DATE:	TEMPORARY SHORING NOTES	
	SCALE: NONE		REVISIONS
	DATE: DEC 08		
	DWG. BY:		
	DESIGN BY:		
REVIEWED BY:			CADD FILE

I:\DEC-2008 1045
 ca\documents_and_settings\mbabalola\local settings\temporary internet files\volk2d\r-3833b_tcp_05abc-temp shoring notes.dgn
 mbabalola AT GEH240343

TEMPORARY SHORING NOTES

PROJ. REFERENCE NO.	SHEET NO.
R-3833B	TCP-5C

TEMPORARY SHORING LOCATION NO. 11 (AS SHOWN ON TCP-14)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION

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

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 56+10.00+/- -Y6-, 9 FEET LEFT OF -Y6-, TO STATION 57+20.00+/- -Y6-, 9 FEET LEFT OF -Y6-, USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 56+10.00+/- -Y6-, 9 FEET LEFT OF -Y6-, TO STATION 57+20.00+/- -Y6-, 9 FEET LEFT OF -Y6-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 770 SF

TEMPORARY SHORING LOCATION No. 12 (AS SHOWN ON TCP-14)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION

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

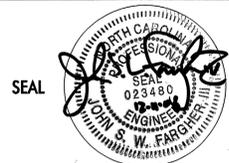
WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 56+10.00+/- -Y6-, 9 FEET RIGHT OF -Y6-, TO STATION 57+20.00+/- -Y6-, 9 FEET RIGHT OF -Y6-, USE THE FOLLOWING SOIL PARAMETER:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF

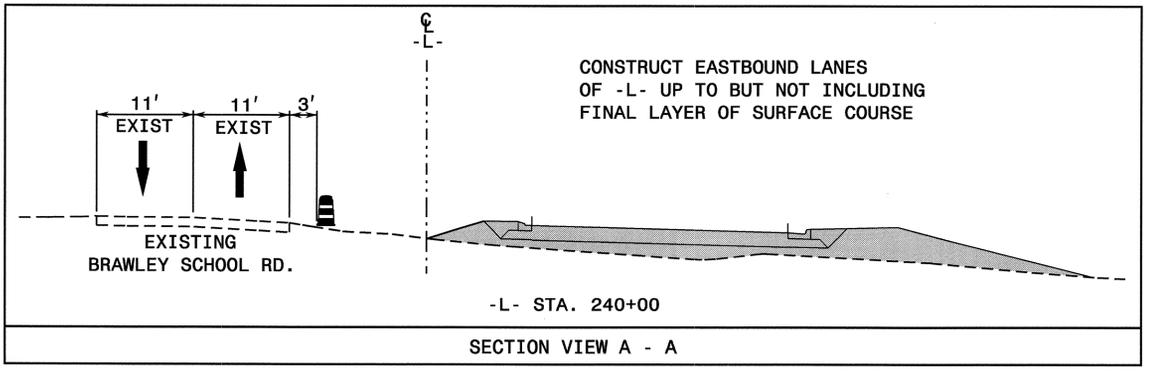
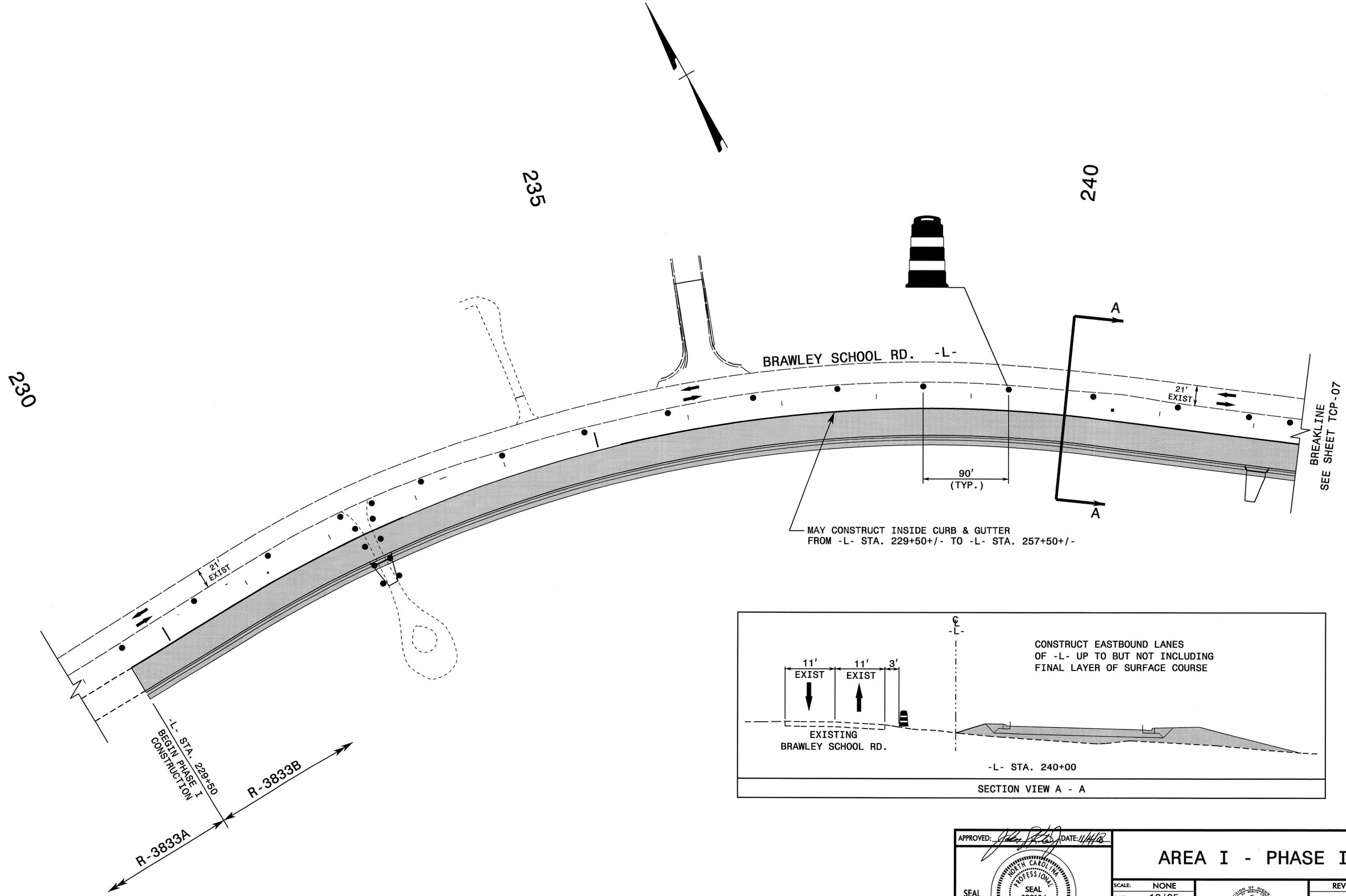
NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 56+10.00+/- -Y6-, 9 FEET RIGHT OF -Y6-, TO STATION 57+20.00+/- -Y6-, 9 FEET RIGHT OF -Y6-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

QUANTITY = 770 SF

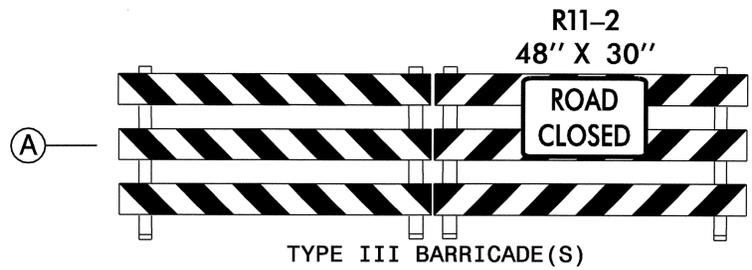
I:\DEC-2008 10\20 c:\documents and settings\mbabalola\local settings\temporary internet files\olk2\1r-3833b.tc.tcp_05abc.temp shoring notes.dgn mbabalola AT 06H240343

APPROVED: _____	DATE: _____	TEMPORARY SHORING NOTES		
	SCALE: NONE		REVISIONS	
	DATE: DEC 08			
	DWG. BY:			
	DESIGN BY:			
REVIEWED BY:		CADD FILE		

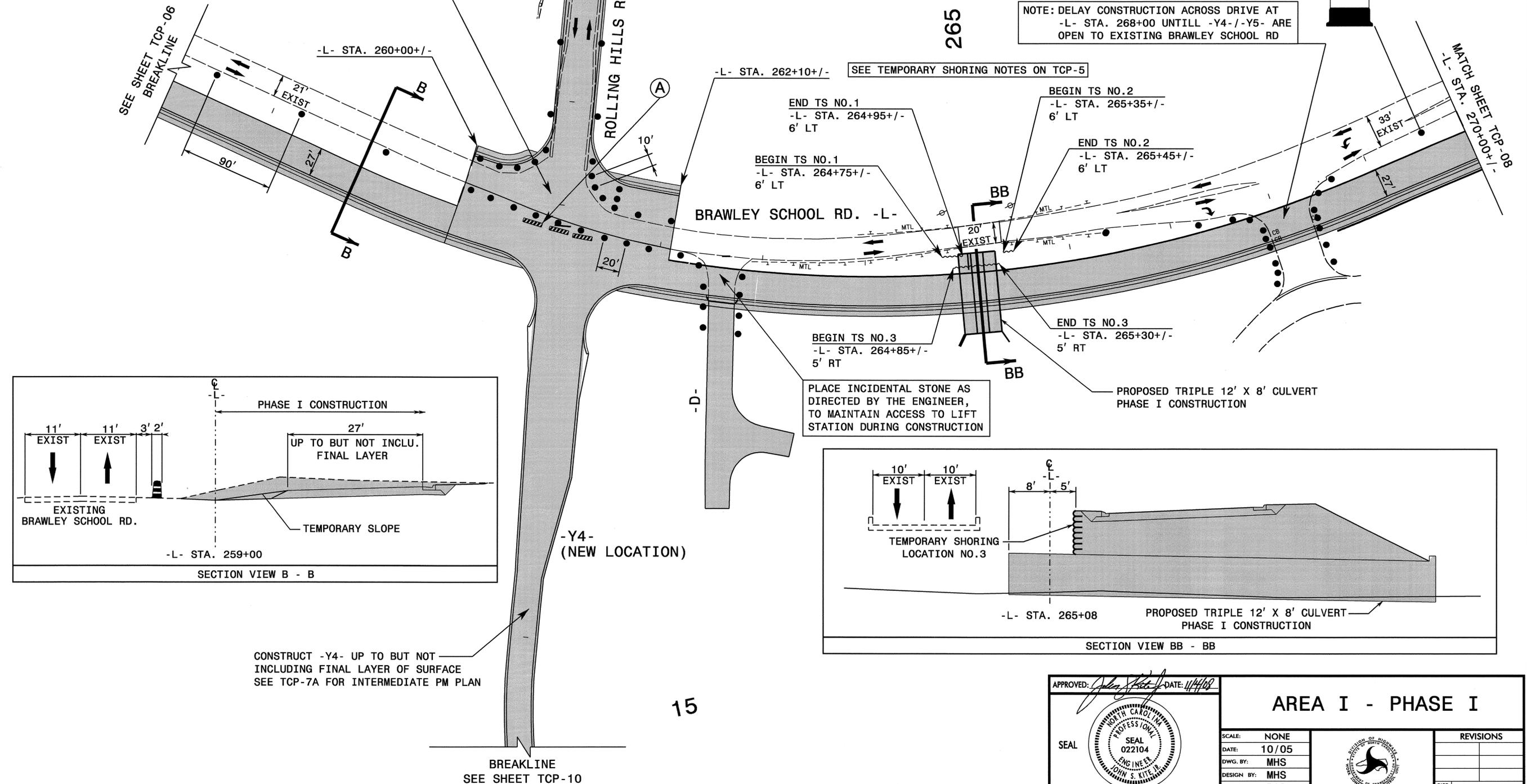


04-NOV-2008 11:52
 \\dot\dfsroot\Proj\TIP\Projects-R\3833b\Traffic\TrafficControl\top\top_r-3833b_te_tcp_06.dgn
 dkpatel AT WZTC244748

APPROVED: <i>[Signature]</i> DATE: 11/14/08 SEAL	<h3 style="text-align: center;">AREA I - PHASE I</h3> <table border="1"> <tr> <td>SCALE:</td> <td>NONE</td> <td rowspan="4"> <small>DEPARTMENT OF TRANSPORTATION</small> <small>CONSTRUCTION DIVISION</small> </td> <td rowspan="4"> <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> </td> </tr> <tr> <td>DATE:</td> <td>10/05</td> </tr> <tr> <td>DWG. BY:</td> <td>MHS</td> </tr> <tr> <td>DESIGN BY:</td> <td>MHS</td> </tr> <tr> <td>REVIEWED BY:</td> <td>DAP</td> <td> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> </td> </tr> </table>	SCALE:	NONE	 <small>DEPARTMENT OF TRANSPORTATION</small> <small>CONSTRUCTION DIVISION</small>	<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								DATE:	10/05	DWG. BY:	MHS	DESIGN BY:	MHS	REVIEWED BY:	DAP	<table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>								
SCALE:	NONE	 <small>DEPARTMENT OF TRANSPORTATION</small> <small>CONSTRUCTION DIVISION</small>	<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:	10/05																													
DWG. BY:	MHS																													
DESIGN BY:	MHS																													
REVIEWED BY:	DAP	<table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>																												



WEDGE/RESURFACE -L- AND -Y1- AS DIRECTED BY THE ENGINEER TO MATCH -Y4- PRIOR TO OPENING -Y4- TO TRAFFIC. SEE TCP-7A FOR INTERMEDIATE PM PLAN. SEE SIGNAL PLANS FOR TEMPORARY SIGNAL.



APPROVED: *[Signature]* DATE: 11/4/05

SEAL

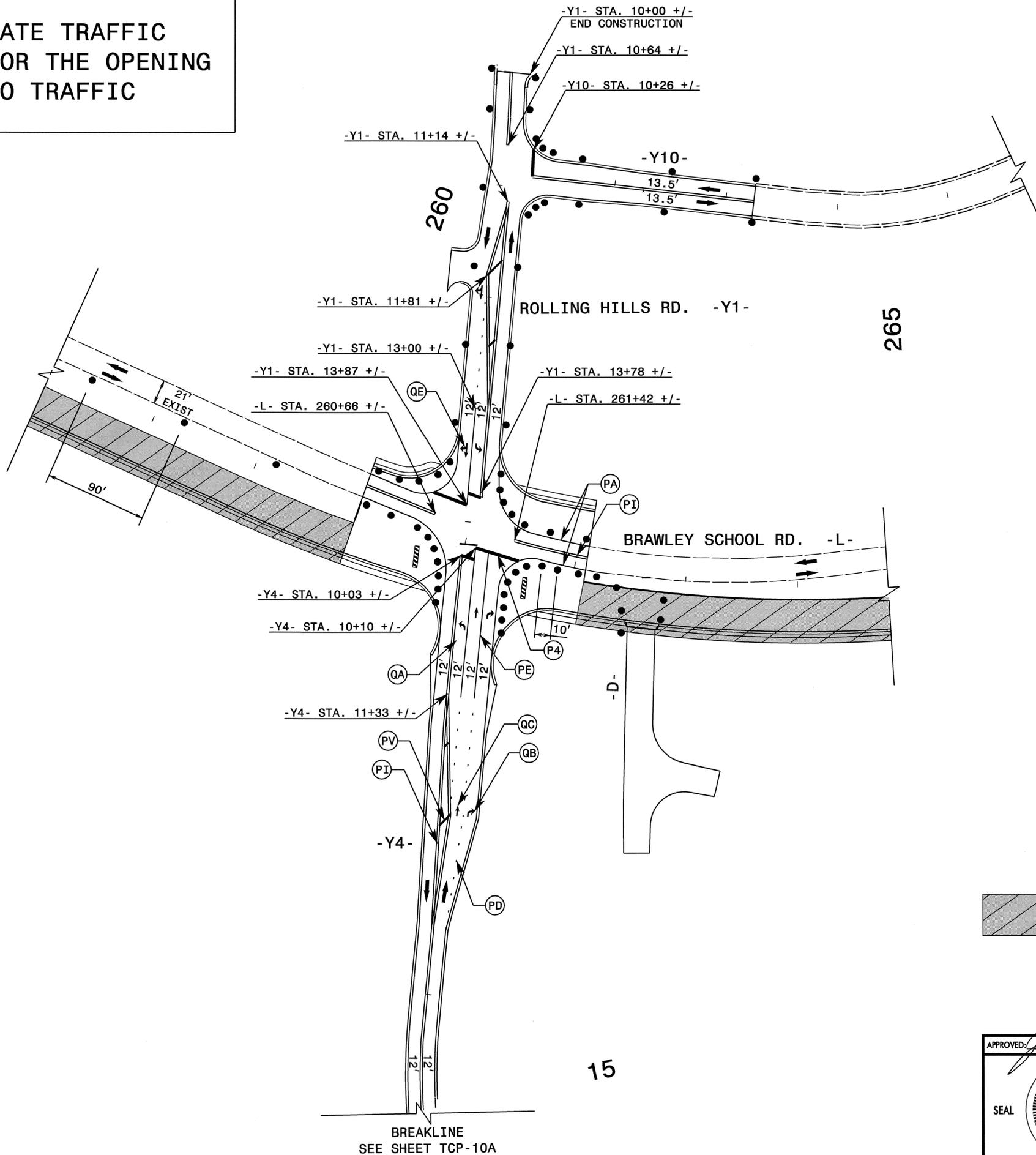
AREA I - PHASE I

SCALE: NONE		REVISIONS
DATE: 10/05		
DWG. BY: MHS		
DESIGN BY: MHS		

REVIEWED BY: DAP

04-NOV-2008 11:54
 \\dot\dfsroot\proj\IP\Projects-r\3833b\Traffic\TrafficControl\top\top-r-3833b.tc_top-07.dgn
 akpatel AT WZTC244748

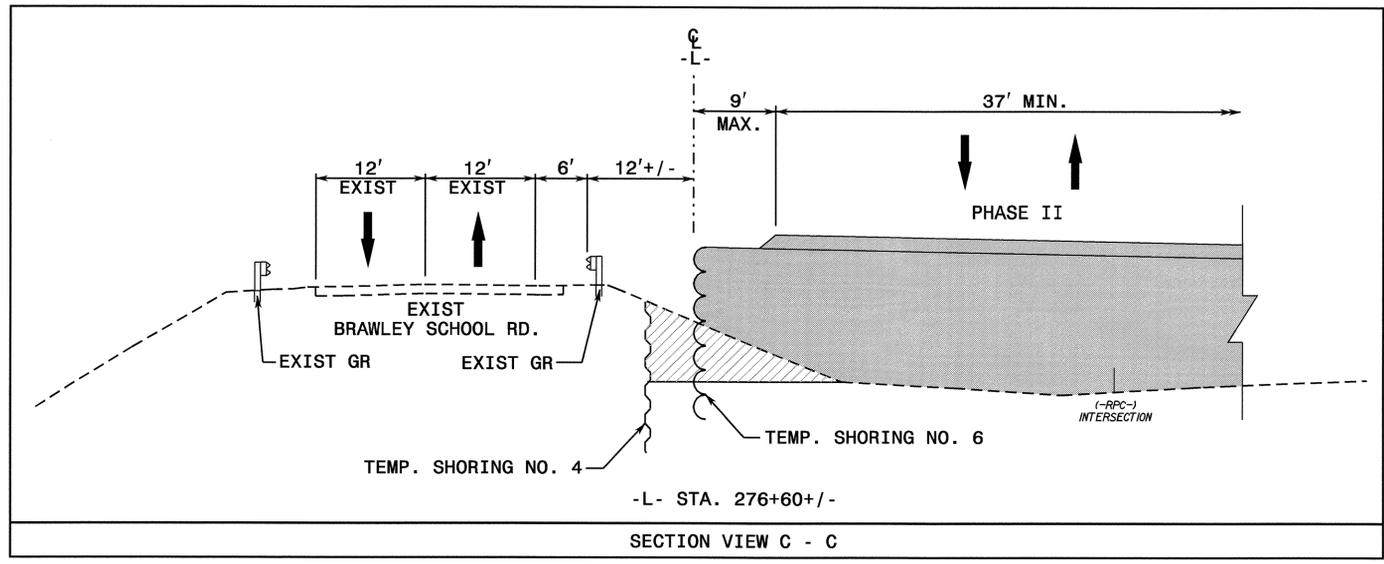
INTERMEDIATE TRAFFIC
PATTERN FOR THE OPENING
OF -Y4- TO TRAFFIC



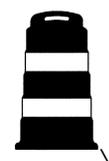
 — ON GOING CONSTRUCTION

04-NOV-2008 11:54
 \\dot\dfsroot\01\Proj\TIP\Projects-r\3833b\trafficoontrol\top\top\vr-3833b-to-top_7a.dgn
 dkp\atel AT WZTC244748

APPROVED:  DATE: 11/4/05 	<p align="center">AREA I - PHASE I</p> <table border="1"> <tr> <td>SCALE: NONE</td> <td rowspan="4">  </td> <td rowspan="4"> <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> </td> </tr> <tr> <td>DATE: 10/05</td> <td> </td> </tr> <tr> <td>DWG. BY: MHS</td> <td> </td> </tr> <tr> <td>DESIGN BY: MHS</td> <td> </td> </tr> <tr> <td>REVIEWED BY: DAP</td> <td> </td> </tr> </table>	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								DATE: 10/05		DWG. BY: MHS		DESIGN BY: MHS		REVIEWED BY: DAP	
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: 10/05																				
DWG. BY: MHS																				
DESIGN BY: MHS																				
REVIEWED BY: DAP																				

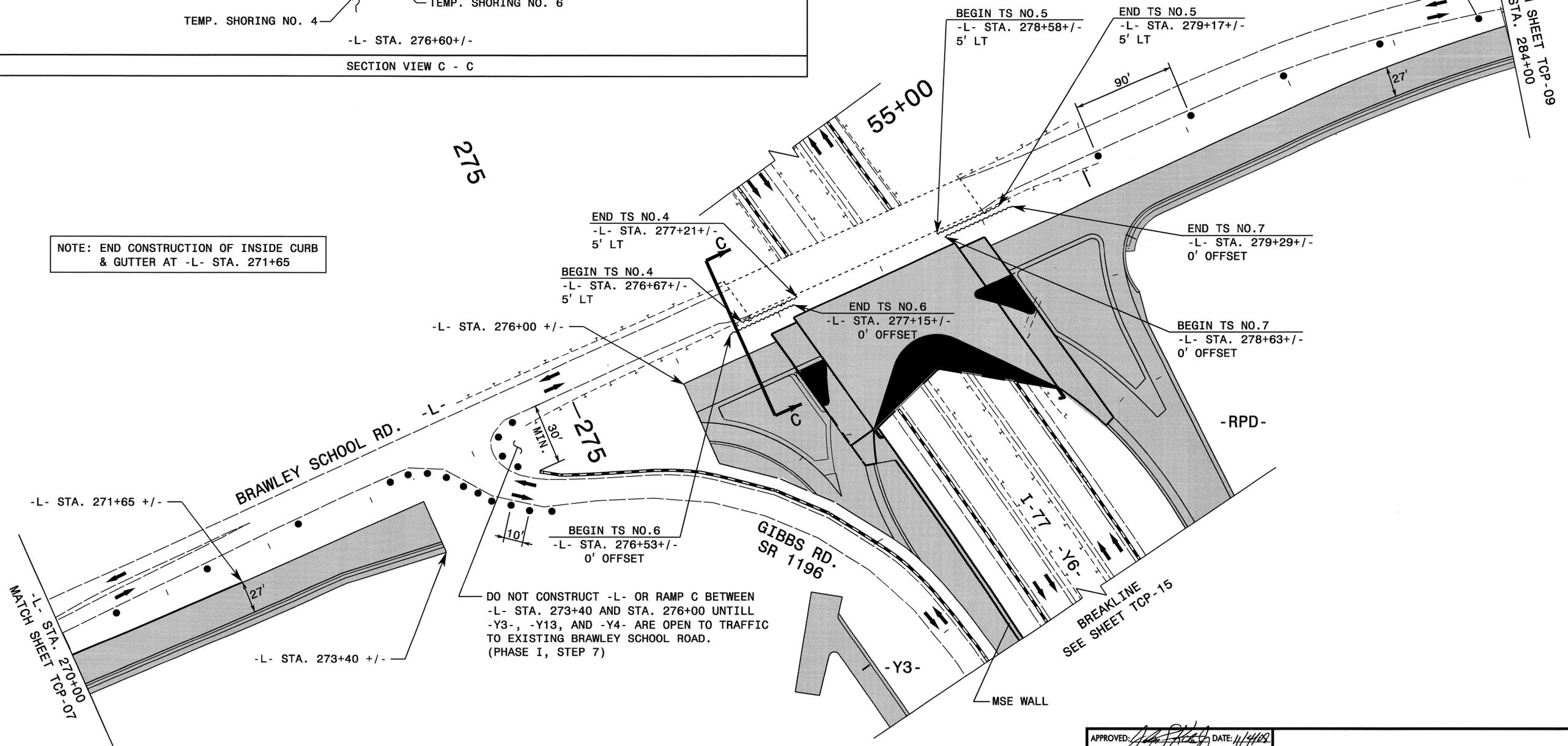


SEE TEMPORARY SHORING NOTES ON TCP-5



NOTE: END CONSTRUCTION OF INSIDE CURB & GUTTER AT -L- STA. 271+65

270



DO NOT CONSTRUCT -L- OR RAMP C BETWEEN -L- STA. 273+40 AND STA. 276+00 UNTILL -Y3-, -Y13, AND -Y4- ARE OPEN TO TRAFFIC TO EXISTING BRAWLEY SCHOOL ROAD. (PHASE I, STEP 7)

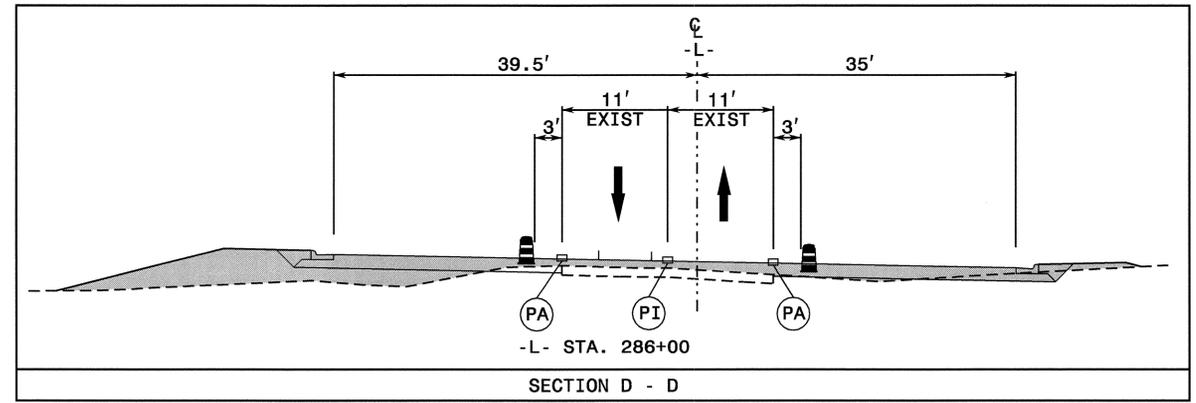
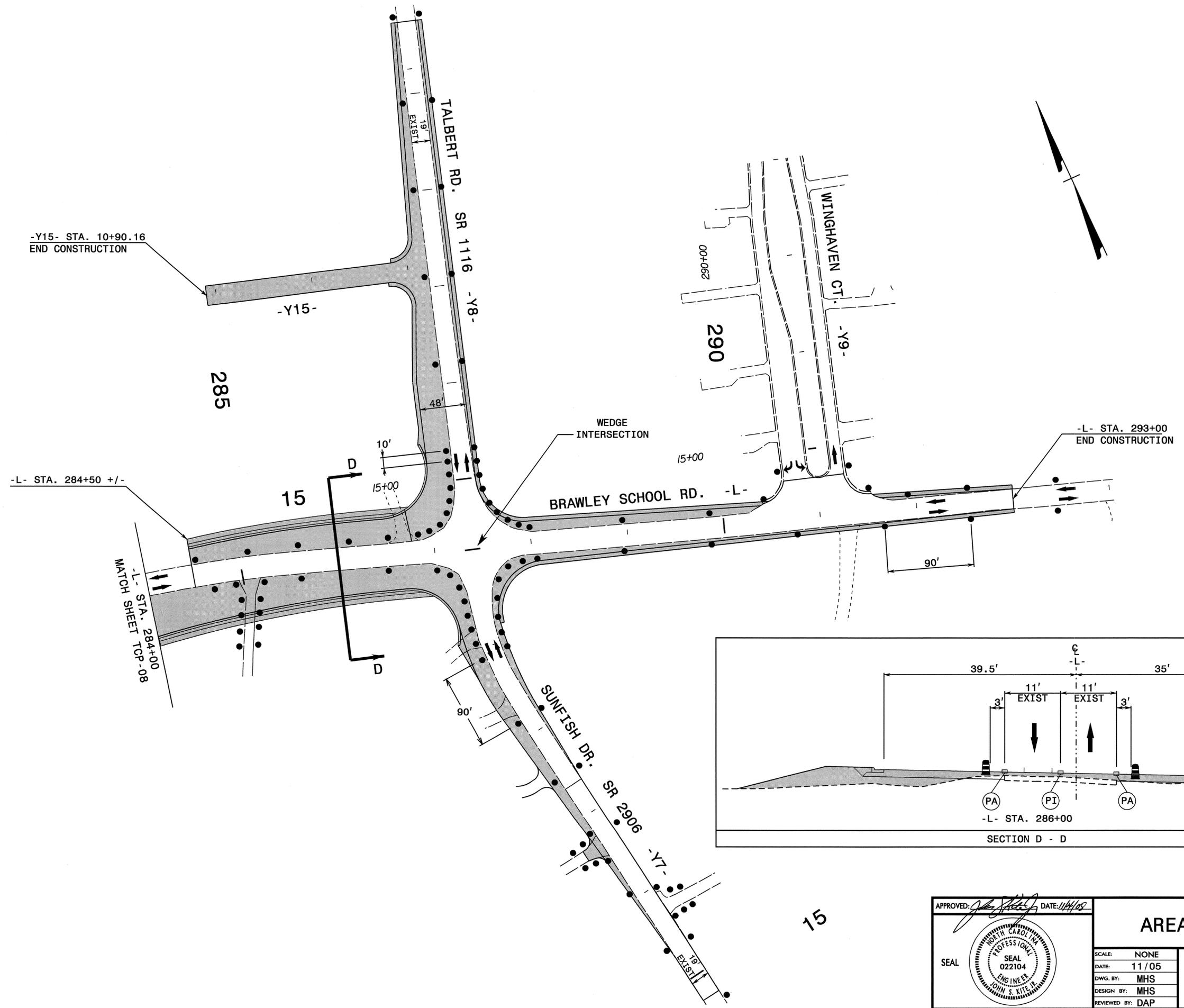
APPROVED: *[Signature]* DATE: 11/4/08

SEAL

AREA I PHASE I

SCALE: NONE		REVISIONS
DATE: 10/05		
DWG. BY: MHS		
DESIGN BY: MHS		
REVIEWED BY: DAP		

04-NOV-2008 11:55
 \\dot\dfsroot\proj\TIP\Projects-r\3833b\Traffic\TrafficControl\top\tcp-r-3833b-tc-tcp-08.dgn
 dkp\atel AT WZTC244748



04-NOV-2008 11:56
 \\dot\ndfsgroot01\Proj\TIP\Projects-r\F3833b\Traffic\TrafficControl\Top\Top-r-3833b_top-09.dgn
 akpatel AT WZTC24748

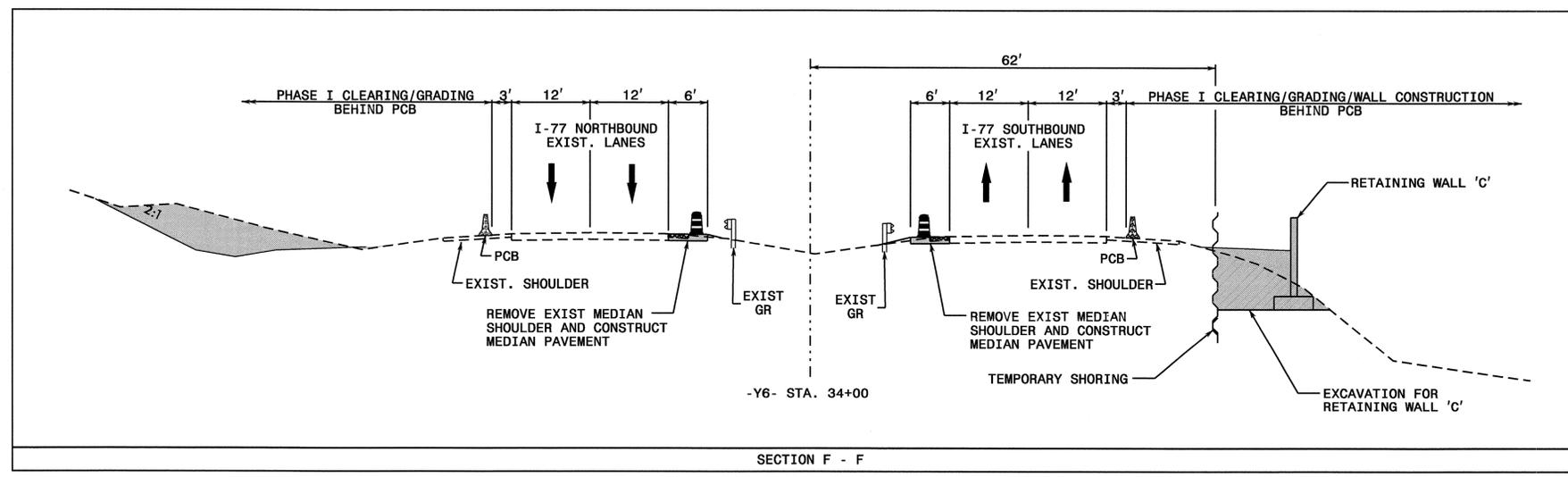
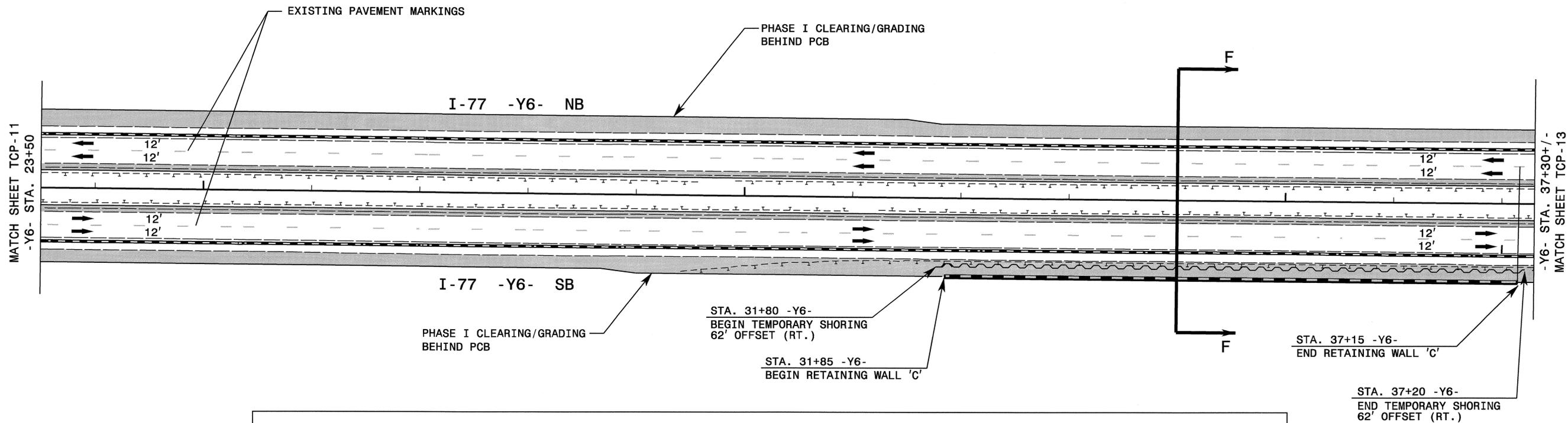
APPROVED: <i>[Signature]</i> DATE: 11/11/05  SEAL	<h3 style="text-align: center;">AREA I - PHASE I</h3> <table border="1"> <tr> <td>SCALE:</td> <td>NONE</td> </tr> <tr> <td>DATE:</td> <td>11/05</td> </tr> <tr> <td>DWG. BY:</td> <td>MHS</td> </tr> <tr> <td>DESIGN BY:</td> <td>MHS</td> </tr> <tr> <td>REVIEWED BY:</td> <td>DAP</td> </tr> </table>	SCALE:	NONE	DATE:	11/05	DWG. BY:	MHS	DESIGN BY:	MHS	REVIEWED BY:	DAP	<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							
SCALE:	NONE																			
DATE:	11/05																			
DWG. BY:	MHS																			
DESIGN BY:	MHS																			
REVIEWED BY:	DAP																			
REVISIONS																				

25

30

35

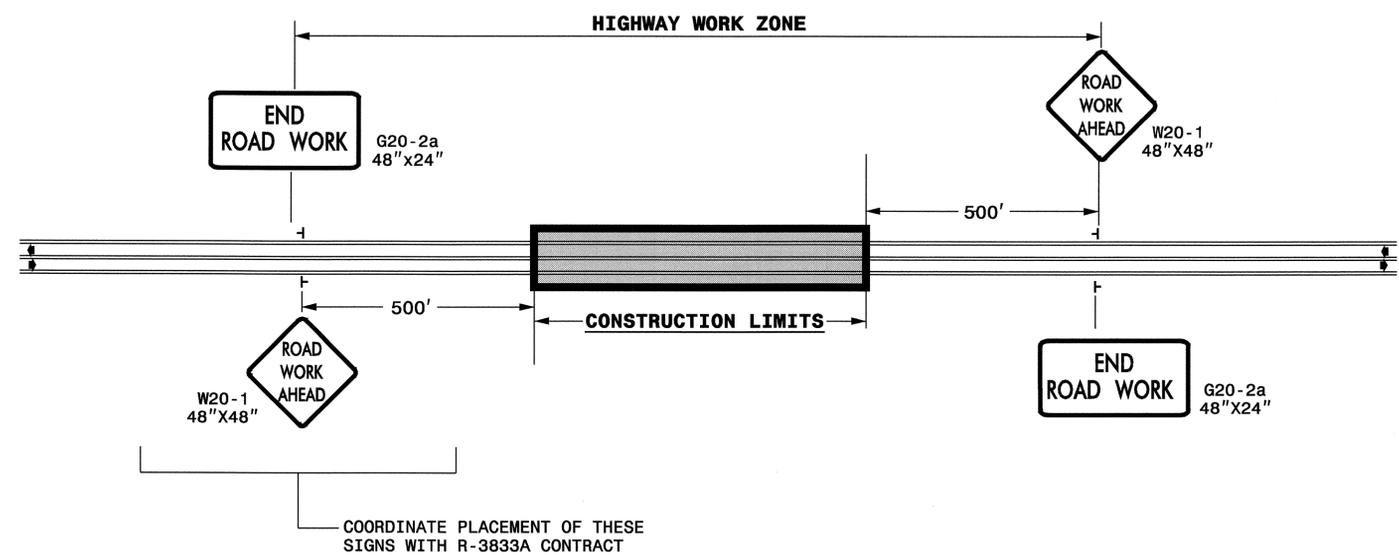
SEE SHEET TCP-5 FOR TEMPORARY SHORING NOTES



05-NOV-2008 09:56 \\dot\pfsr\0010\proj\TIPProjects-r\3833b\traffic\trafficcontrol\top\top-r-3833b-tc-top.l2.dgn

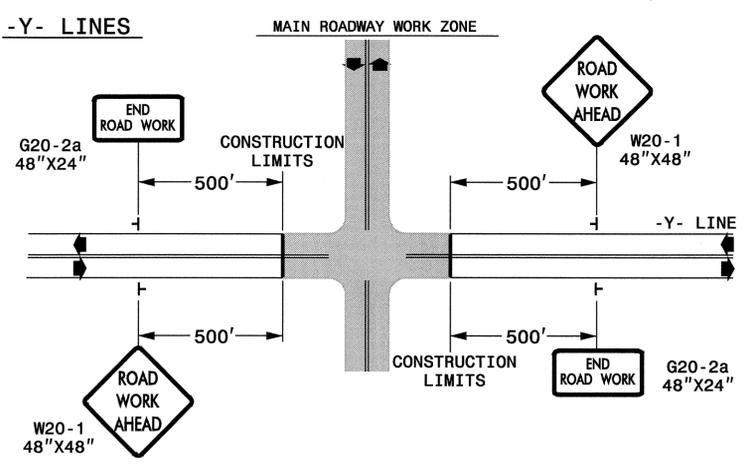
APPROVED: <i>John S. Kite</i> DATE: 11/4/05	AREA II - PHASE I	
SCALE: NONE		REVISIONS
DATE: 11/05		
DWG. BY: MHS		
DESIGN BY: MHS		
REVIEWED BY: DAP		CADD FILE

TWO-WAY UNDIVIDED ** BRAWLEY SCHOOL ROAD (-L-)



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE SUNFISH DR. (-Y7-) AND TALBERT RD. (-Y8-)



DETAIL DRAWING FOR
TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

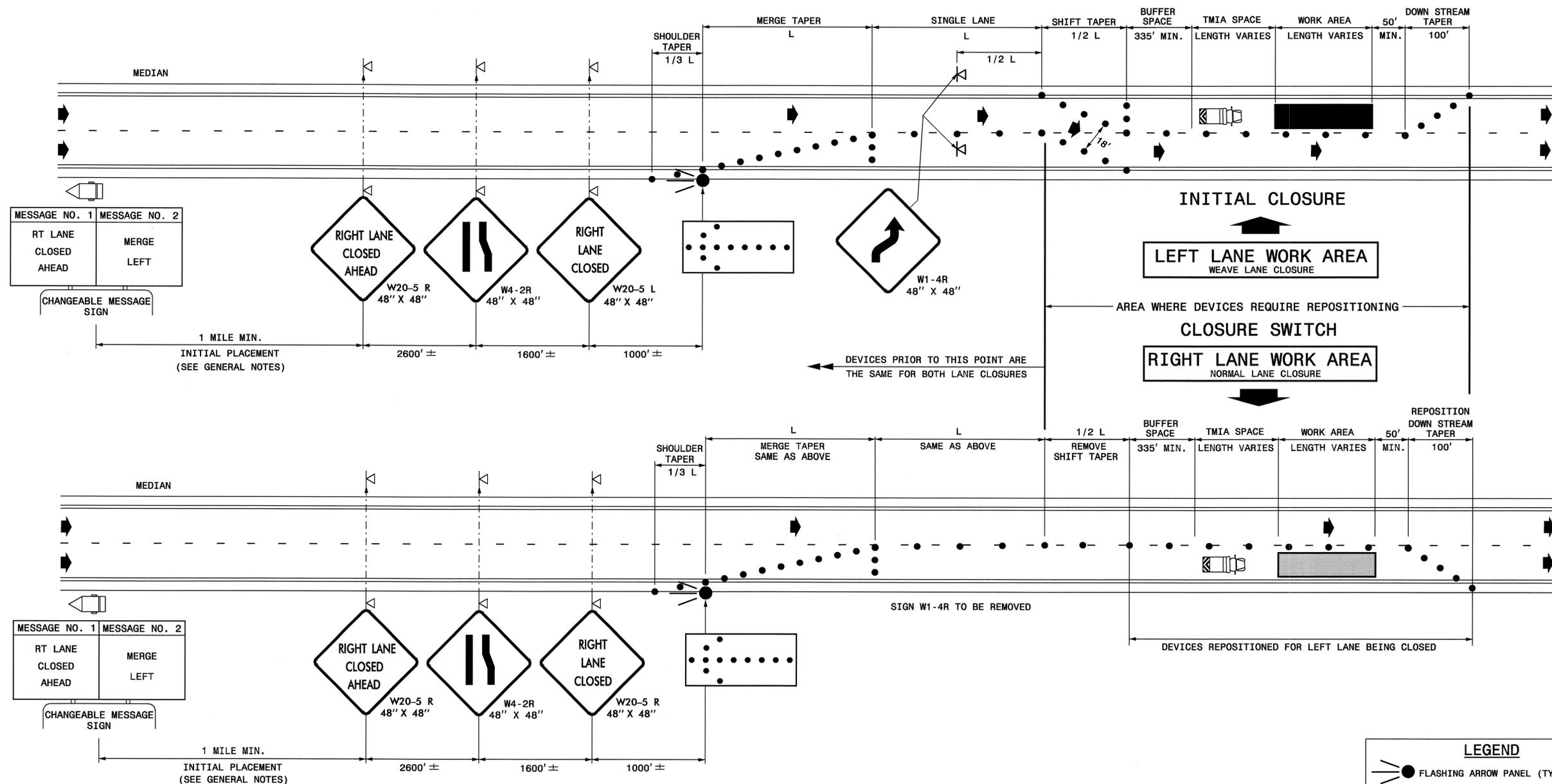
┆ STATIONARY SIGN

◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: <i>[Signature]</i> DATE: 11/9/07	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
	SCALE: NONE	REVISIONS
	DATE: 01/07	7-98 10/01
	DWG. BY: MVS	10-98 03/04
	DESIGN BY: MVS	01/01 11/04
REVIEWED BY: DAP		

06-NOV-2008 13:12
 \\dot\dfs\proj\01\proj\NIP\Projects\R-3833b\TrafficControl\top\top-3833b-tc-top-24.dgn
 akp@tel AT WZTC24148



GENERAL NOTES

- WEAVE LANE CLOSURES ARE TO BE USED ONLY ON DIVIDED, CONTROLLED ACCESS ROADWAYS, WITH POSTED SPEED LIMITS OF 55 MPH, OR GREATER.
- FLASHING ARROW PANELS SHALL BE PLACED ON THE SHOULDER (PAVED OR UNPAVED). THE LOCATION OF THE ARROW PANEL SHALL MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE. LANE CLOSURES SHALL BE EXTENDED IF NEEDED, WITHIN THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE TO THE BEGINNING OF THE LANE CLOSURE OR FLASHING ARROW PANEL IS MET. SEE STD. NO. 1101.11 SHEET 2 FOR STOPPING SIGHT DISTANCE & BUFFER SPACE TABLES.
- THE MAXIMUM SPACING OF DRUMS IN TAPERS SHALL BE EQUAL IN FEET TO THE POSTED SPEED LIMIT. THE MAXIMUM SPACING OF DRUMS ALONG THE BUFFER SPACE, AND WORK AREA, SHALL BE EQUAL IN FEET TO (2) TIMES THE POSTED SPEED LIMIT.
- SEE STD. NO. 1101.11-SHEETS 1 & 4, FOR VALUES OF "L", AND SIGN SPACING DISTANCES.
- SEE STD. NO. 1101.02-SHEETS 6 & 7 FOR TREATMENT OF LANE CLOSURES THRU INTERCHANGES.
- LANE CLOSURES SHALL BE INSTALLED WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. LANE CLOSURES SHALL BE REMOVED AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- LANE CLOSURE SWITCHES TO BE PERFORMED BY A ROLLING ROADBLOCK OPERATION. SEE RSD 1101.07, SHEET 2 OF 2.
- TRUCK MOUNTED IMPACT ATTENUATOR SHALL BE USED TO PROTECT THE WORK AREA. TMIA'S SHALL BE PLACED IN ADVANCE OF THE WORK AREA AT DISTANCES SPECIFIED BY THEIR MANUFACTURER.
- CHANGEABLE MESSAGE SIGN SHALL BE PLACED EITHER IN THE MEDIAN, OR ON THE OUTSIDE OF THE TRAVELWAY, AS DIRECTED BY THE ENGINEER. THE SIGN SHOULD INITIALLY BE LOCATED APPROXIMATELY 2 MILES IN ADVANCE OF THE MERGE TAPER. IF IT IS ANTICIPATED THAT TRAFFIC WILL BACK UP TO WHERE THE SIGN IS LOCATED, THE SIGN SHOULD THEN INITIALLY BE PLACED APPROXIMATELY 1 MILE PRIOR TO ANTICIPATED BACKUPS. BACKUPS SHOULD BE MONITORED SUCH THAT FOR FUTURE LANE CLOSURES, THE SIGN IS PLACED APPROXIMATELY 1 MILE PRIOR TO WHERE TRAFFIC IS ANTICIPATED TO BACK UP.
- CHANGEABLE MESSAGE SIGN MESSAGES OTHER THAN THE ONES SHOWN MAY BE PORTRAYED AS DEEMED NECESSARY BY THE ENGINEER. NO MORE THAN 2 MESSAGE DISPLAYS SHOULD BE USED WITH ANY CYCLE.

LEGEND

- FLASHING ARROW PANEL (TYPE C)
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- DRUM
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW
- CHANGEABLE MESSAGE SIGN

SHEET 1 OF 1

STANDARD DETAIL DRAWING

LANE CLOSURE SWITCHES FOR DIVIDED ROADWAYS
LEFT LANE WORK AREA - WEAVE LANE CLOSURE
RIGHT LANE WORK AREA - NORMAL LANE CLOSURE

APPROVED: *[Signature]* DATE: 11/4/08

SCALE: NONE
DATE: 11/08
DWG. BY: AKP
DESIGN BY: AKP
REVIEWED BY: DAP

SEAL:

REVISIONS

CADD FILE

07-NOV-2008 11:27
\\ND01\dfsroot\01\Proj\TIP\Projects-r\3833b\traffic\trafficcontrol\top\top-3833b.tc_top-27.dgn
akp\at\WZTC244748