

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B - 0682	TCP-1

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

**B-0682**

**ROADWAY STANDARD DRAWINGS**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-  
PROJECT SERVICES 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
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
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1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
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1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
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1264.02	PLACEMENT OF OBJECT MARKERS

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TCP-15	SPECIAL SIGN DESIGN
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**LEGEND**

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
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- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
  - TYPE II BARRICADE
  - TYPE III BARRICADE
  - CONE
  - DRUM SKINNY DRUM
  - FLASHING ARROW PANEL (TYPE C)
  - STATIONARY SIGN
  - PORTABLE SIGN
  - STATIONARY OR PORTABLE SIGN
  - 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

**TIP PROJECT:**

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mgarrett AT WZT22229

APPROVED: <u>Jessica Kuse</u> DATE: <u>01/31/07</u>	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
SEAL 	<u>J. S. BOURNE, P.E.</u> TRAFFIC CONTROL ENGINEER
	<u>J. S. KITE, P.E.</u> TRAFFIC CONTROL PROJECT ENGINEER
	<u>J. D. KUSE, P.E.</u> TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	<u>R. M. GARRETT</u> TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

# PROJECT NOTES

PROJ. REFERENCE NO. B-0682	SHEET NO. TCP-02
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## GENERAL NOTES

ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER, TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

### TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
SR 1172/ NC 179 (SUNSET BLVD.)	(OFF-PEAK SEASON) WEDNESDAY AFTER LABOR DAY TO THURSDAY BEFORE MEMORIAL DAY MONDAY THRU SUNDAY FROM 6:00 A.M. TO 8:30 A.M. AND FROM 4:00 P.M. TO 6:00 P.M.

(PEAK SEASON)  
FRIDAY BEFORE MEMORIAL DAY TO TUESDAY AFTER LABOR DAY  
MONDAY THRU SUNDAY  
FROM 6:00 A.M. TO 7:00 P.M.

B) DO NOT STOP TRAFFIC OR CLOSE ROADS DURING PEAK SEASON (FRIDAY BEFORE MEMORIAL DAY TO TUESDAY AFTER LABOR DAY AND AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
(NC 179) (SHORELINE DR.)	(OFF-PEAK SEASON) WEDNESDAY AFTER LABOR DAY TO THURSDAY BEFORE MEMORIAL DAY MONDAY THROUGH SUNDAY FROM 6:00 A.M. TO 8:30 A.M. AND FROM 4:00 P.M. TO 6:00 P.M.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.

D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

G) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.

H) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS A DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

J) DO NOT EXCEED A DIFFERENCE OF 1.5 inches IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING \*UNEVEN LANES\* SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF ONCE EVERY MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

K) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

### SIGNING

L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

M) PROVIDE PERMANENT SIGNING.

N) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.

O) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.

P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) 500 FT IN ADVANCE OF THE UNEVEN AREA.

R) INSTALL BLACK ON ORANGE "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA.

### TRAFFIC CONTROL DEVICES

S) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.

T) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.

### PAVEMENT MARKINGS AND MARKERS

U) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
(SR 1172) SUNSET BLVD.	POLYUREA	SNOWPLOWABLE RAISED PAVEMENT MARKERS
-L- SHORELINE DR.	POLYUREA	SNOWPLOWABLE RAISED PAVEMENT MARKERS

V) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
(SR 1172) SUNSET BLVD.	PAINT	TEMPORARY RAISED PAVEMENT MARKERS
-L- SHORELINE DR.	PAINT	TEMPORARY RAISED PAVEMENT MARKERS

W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

X) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.

Y) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

### MISCELLANEOUS

Z) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH INTERSECTIONS.

AA) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 500 FT AND 1000 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

## LOCAL NOTES

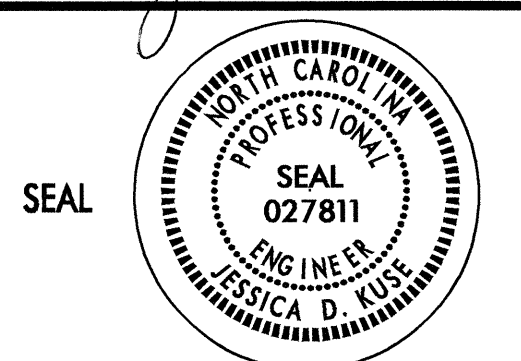
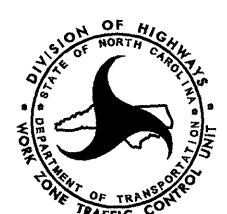
1) CONDUCT PILE DRIVING BETWEEN THE HOURS OF 7:00 A.M. AND 10:00 P.M., MONDAY THROUGH SUNDAY AND AS DIRECTED BY THE ENGINEER.

2) PAY STRICT AHERENCE TO LOAD LIMITATIONS ON EXISTING BRIDGE DURING HAULING AND CONSTRUCTION OPERATIONS.

3) CONDUCT AND COMPLETE ALL CONSTRUCTION RELATIVE TO THE GOLF COURSE SITE (DAM/CARTWAY) TOGETHER THE INSTALLATION OF THE PROPOSED 42" DRAINAGE PIPE UNDER -Y1- SUNSET BLVD. (SR 1172) BETWEEN THE MONTHS OF NOVEMBER AND MARCH.

4) CHANGEABLE MESSAGE BOARDS MAY BE USED TO NOTIFY MOTORISTS OF TRAFFIC SHIFTS, ROAD CLOSURES, OR AS DIRECTED BY THE ENGINEER. CONTACT THE WORK ZONE TRAFFIC CONTROL UNIT AT 919-250-4159 FOR MESSAGING OPTIONS, IF NEEDED.

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APPROVED: <i>Jessica D. Huse</i> DATE: 5/23/07 	<h2 style="margin: 0;">PROJECT NOTES</h2>	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>						
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# PHASING

**NOTES:**

RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORKDAY UNLESS OTHERWISE NOTED IN THE PHASING OR AS DIRECTED BY THE ENGINEER.

USING INCIDENTAL STONE AS NECESSARY, MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT UNLESS OTHERWISE NOTED IN THE PHASING OR AS DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANES.

## PHASE I

STEP 1 - INSTALL WORK ZONE ADVANCE WARNING SIGNS IN ACCORDANCE WITH THE NOTES ON SHEET TCP-03 AND THE LOCATIONS SHOWN ON SHEET TCP-04.

STEP 2 - AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF THE FOLLOWING: INCLUDING CLEARING AND GRUBBING, DRAINAGE AND UTILITY RELOCATIONS. (SEE ROADWAY PLANS, STRUCTURE PLANS AND SHEETS TCP-04 THROUGH TCP-08) (SEE LOCAL NOTES 1, 2 & 3)

-L- FROM STA. 43+00+/- TO STA. 66+00+/-

- USING ROADWAY STANDARD DRAWING NUMBER 1102.02, SHEET 1 OF 9 AS NEEDED BEGIN CONSTRUCTION OF -Y1- FROM STA. 16+65+/- TO STA. 28+54+/-

NOTE: - CLOSE WEST SHORELINE DR. AND PLACE TRAFFIC ONTO TEMPORARY DETOUR ROUTE (CANAL AVENUE) AS SHOWN ON SHEET TCP-08 NIGHTLY AS NEEDED FROM 6:00 P.M. TO 6:00 A.M. TO HANG BRIDGE GIRDERS.

- CLOSE CANAL AVENUE AND PLACE TRAFFIC ONTO TEMPORARY DETOUR ROUTE (WEST SHORELINE DR.) AS SHOWN ON SHEET TCP-08 NIGHTLY AS NEEDED FROM 6:00 P.M. TO 6:00 A.M. TO HANG BRIDGE GIRDERS.

WEST SHORELINE DR. AND CANAL AVENUE ARE NOT TO BE CLOSED AT THE SAME TIME.

- USING ROADWAY STANDARD DRAWING NUMBER 1102.02, SHEET 1 OF 9 AS NEEDED CONSTRUCT PROPOSED DAM AND -CARTWAY- (GOLF COURSE SITE) AND 42" RCP AT -Y1- STA. 17+62+/- (BORE & JACK)

- REMOVE ALL TEMPORARY DRAINAGE RELATIVE TO THE PROPOSED DAM AND -CARTWAY- (GOLF SITE) AND USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9 CONSTRUCT THE PROPOSED 30" RCP AT -Y1- STA. 20+70+/- (SEE ROADWAY PLANS AND SHEET TCP-07).

- USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9 CONSTRUCT THE PROPOSED -DET- DETOUR ROUTE FROM STA. 10+95+/- TO STA. 29+05+/- INCLUDING FINAL LAYER OF SURFACE COURSE MATCHING THE ELEVATION OF THE EXISTING ROAD SURFACE OF SR 1172 (SUNSET BLVD.) (SEE ROADWAY PLANS AND SHEETS TCP-04 THROUGH TCP-06)

STEP 3 - INSTALL AS MUCH TEMPORARY MARKINGS AND MARKERS AS POSSIBLE ON THE DETOUR ROUTE (-DET-) AS SHOWN ON SHEET TCP-11 WITHOUT INTERFERING WITH TRAFFIC.

## PHASE II

STEP 1 - USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9 COMPLETE PAVEMENT WEDGING AND TEMPORARY PAVEMENT MARKINGS AT EACH TIE IN LOCATION AND PLACE TRAFFIC IN A 2-LANE, 2-WAY TRAFFIC PATTERN ON THE COMPLETED -DET- SUNSET BLVD. DETOUR ROUTE. (SEE SHEETS TCP-09 AND TCP-11)

STEP 2 - USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9 AS NEEDED CONTINUE -L- CONSTRUCTION AS MUCH AS POSSIBLE UP TO THE EDGE OF THE EXISTING ROADWAY SURFACES OF (SR 1172) SUNSET BLVD. AND -DET- DETOUR ROADWAY. FROM STA. 25+00+/- TO 43+00+/-.

STEP 3 - CLOSE EAST SHORELINE DR. AND PLACE TRAFFIC ONTO TEMPORARY DETOUR ROUTE AS SHOWN ON SHEET TCP-13 AND CONTINUE THE CONSTRUCTION OF -L- FROM STA. 66+00+/- TO STA. 72+11+/- UP TO BUT NOT INCLUDING THE FINAL LAYER. (SEE ROADWAY PLANS AND SHEET TCP-12)

- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS IN THE FINAL PATTERN ALONG -L- FROM STA. 65+38+/- TO STA. 72+11+/- AS SHOWN ON SHEET PM-2.

STEP 4 - REMOVE TRAFFIC CONTROL DEVICES FROM EAST SHORELINE DETOUR ESTABLISHED IN PHASE II, STEP 3 AND OPEN -L- FROM STA. 65+38+/- TO STA. 72+11+/- TO TRAFFIC.

## PHASE III

STEP 1 - USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9 AS NEEDED COMPLETE -L- CONSTRUCTION BEGUN IN PHASE I, STEP 2 FROM -L- STA. 43+00+/- TO STA. 66+00+/- INCLUDING WEDGING OF TRANSITIONAL PAVEMENT ALONG -L- FROM STA. 25+00+/- TO STA. 32+00+/-.

- INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS FROM -L- STA. 25+00+/- TO STA. 72+11+/- AND PLACE TRAFFIC ONTO -L- FROM THE DETOUR ROUTE -DET-. (SEE SHEET 14).

STEP 2 - USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9 AS NEEDED REMOVE -DET- TEMPORARY DETOUR ROUTE.

STEP 3 - USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 9 AS NEEDED FINALIZE -L- EMBANKMENT AND INSTALL THE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS AND MARKERS ON THE FOLLOWING: (SEE ROADWAY PLANS AND SHEET PM-2)

-L- FROM STA. 11+50+/- TO STA. 72+11+/-  
-Y1- FROM STA. 16+65+/- TO STA. 28+54+/-

- REMOVE REMAINING TRAFFIC CONTROL DEVICES AND SIGNS.

## GENERAL NOTES FOR 2-WAY UNDIVIDED WORK ZONE WARNING SIGNS

- 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.


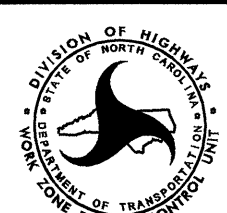
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.

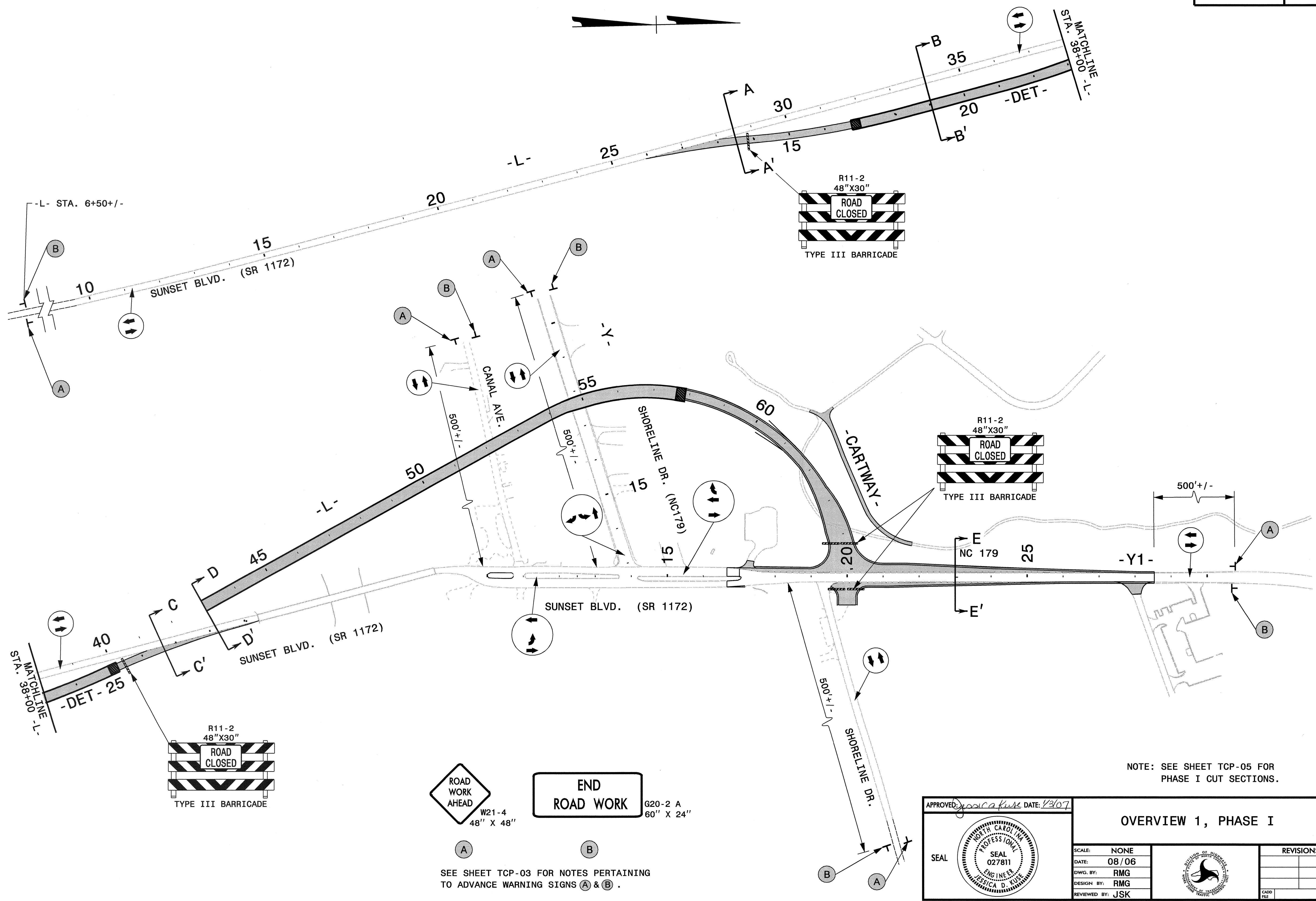
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH 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.

APPROVED: <i>Josakuse</i> DATE: 5/11/07	<b>PHASING / WORK ZONE WARNING SIGN NOTES</b>		
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	DATE: 05/07		
	DWG. BY: RMG		
	DESIGN BY: RMG		
	REVIEWED BY: JDK		



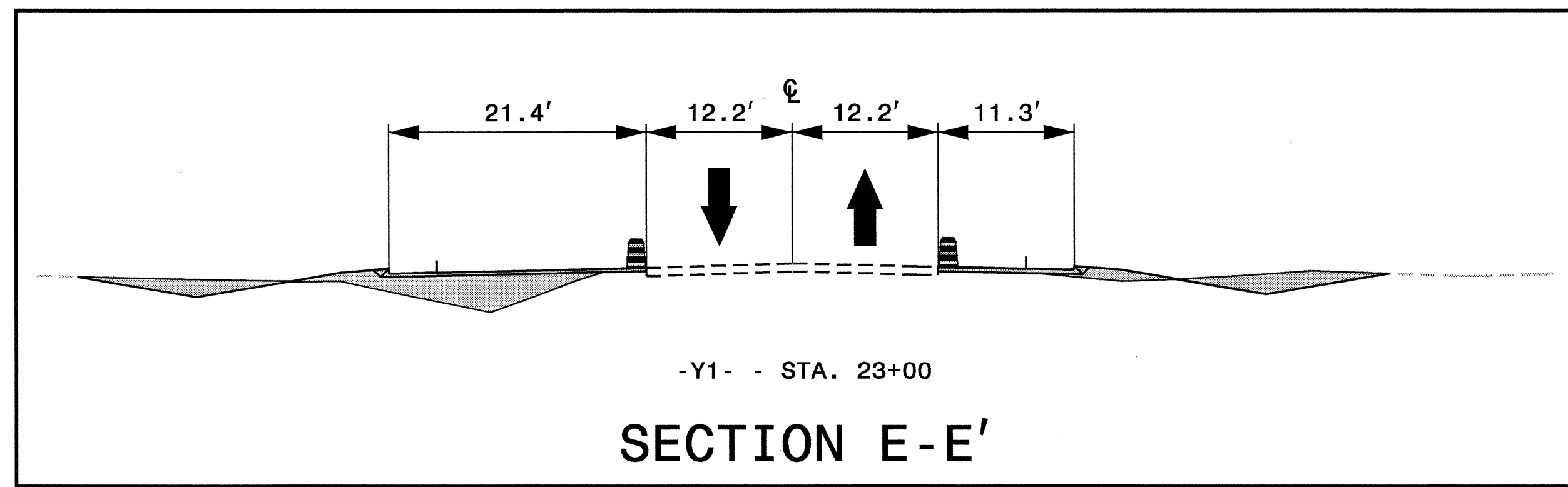
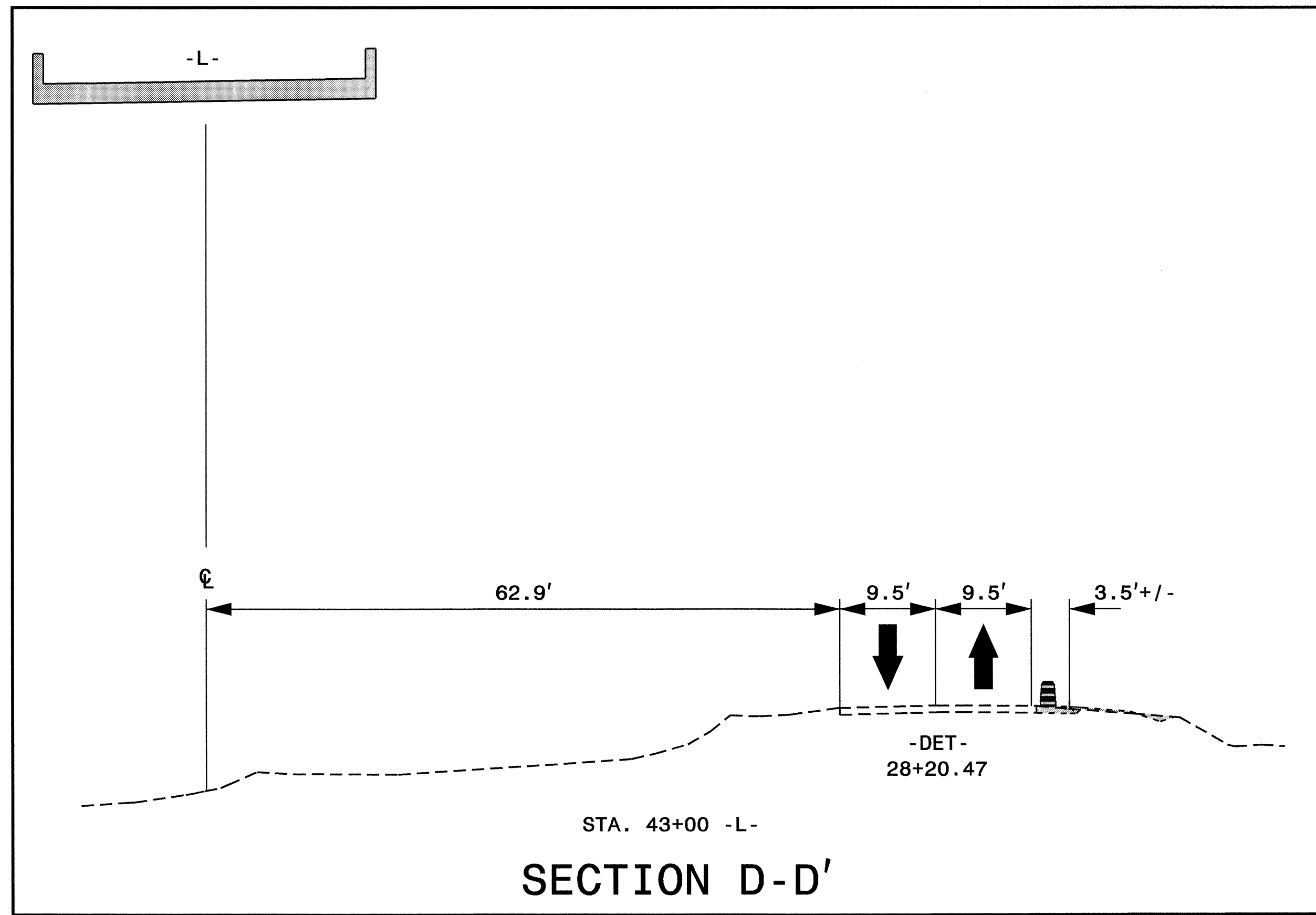
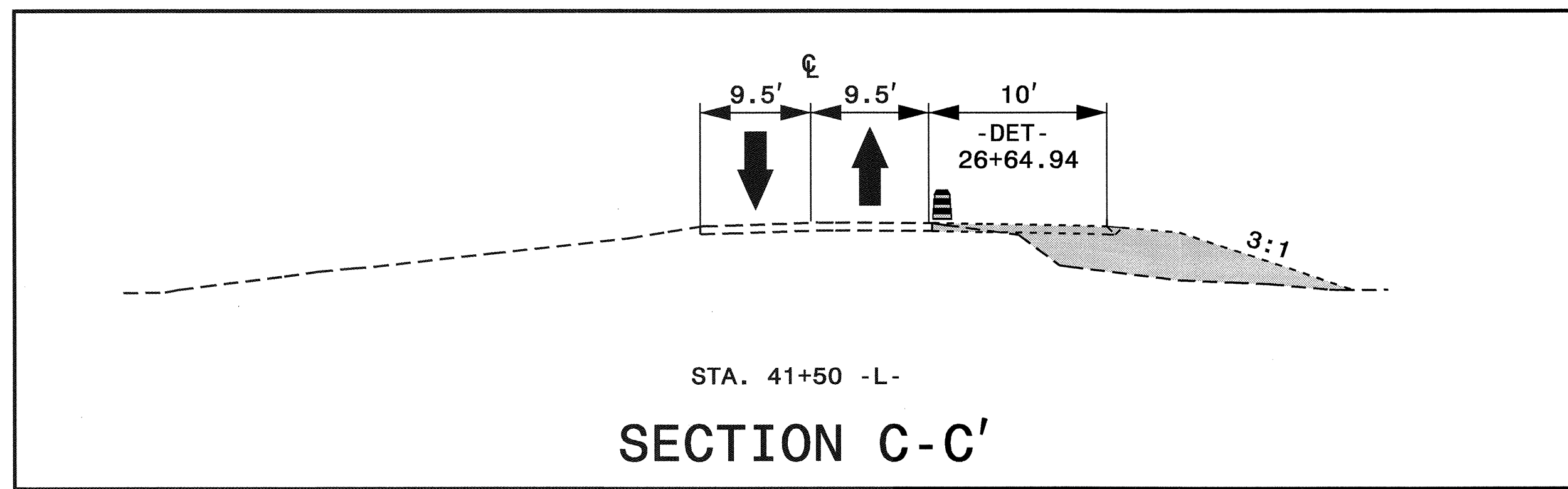
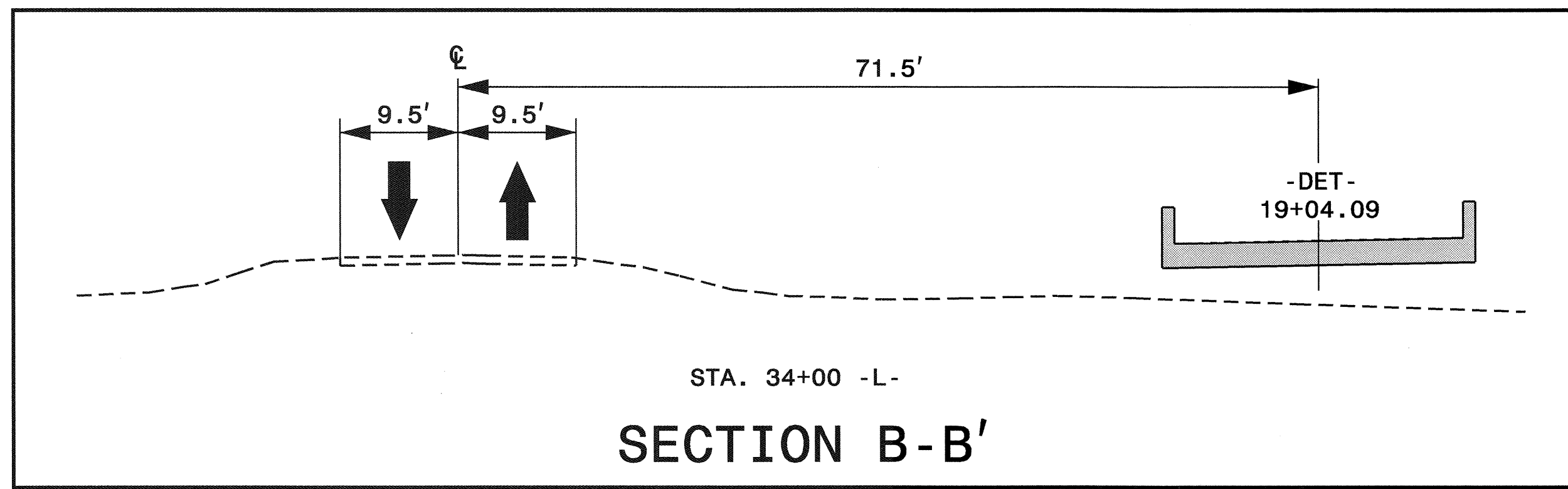
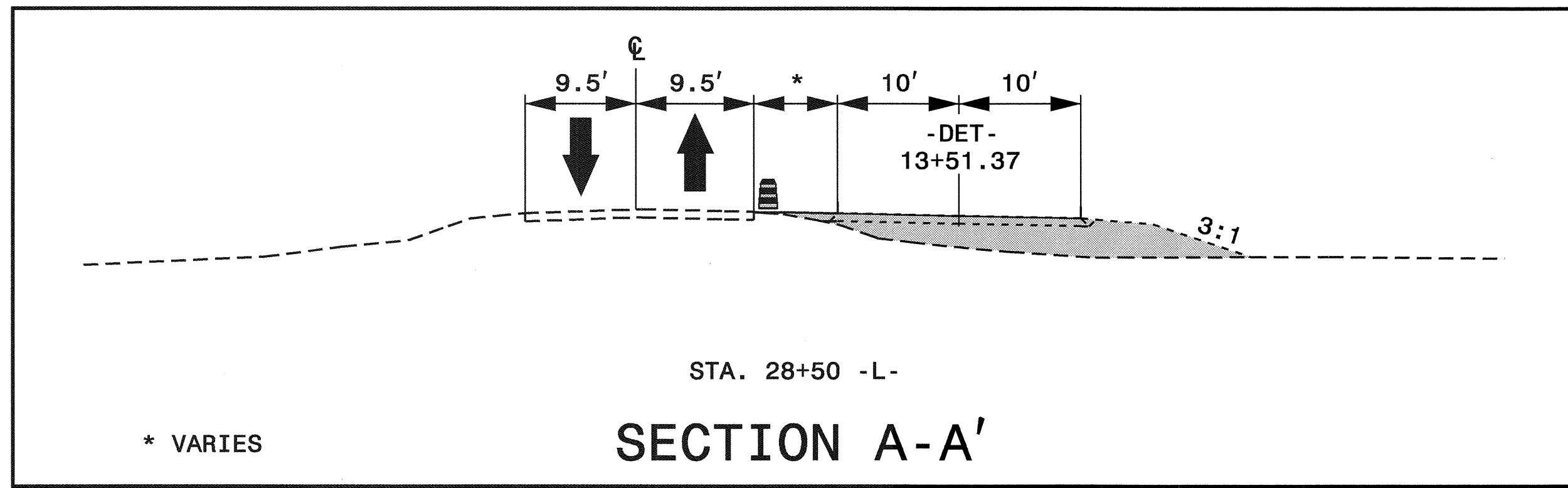
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 AT WZTC2229  
 mgarrett

ROAD WORK AHEAD W21-4 48" X 48"  
 END ROAD WORK G20-2 A 60" X 24"

SEE SHEET TCP-03 FOR NOTES PERTAINING TO ADVANCE WARNING SIGNS (A) & (B).

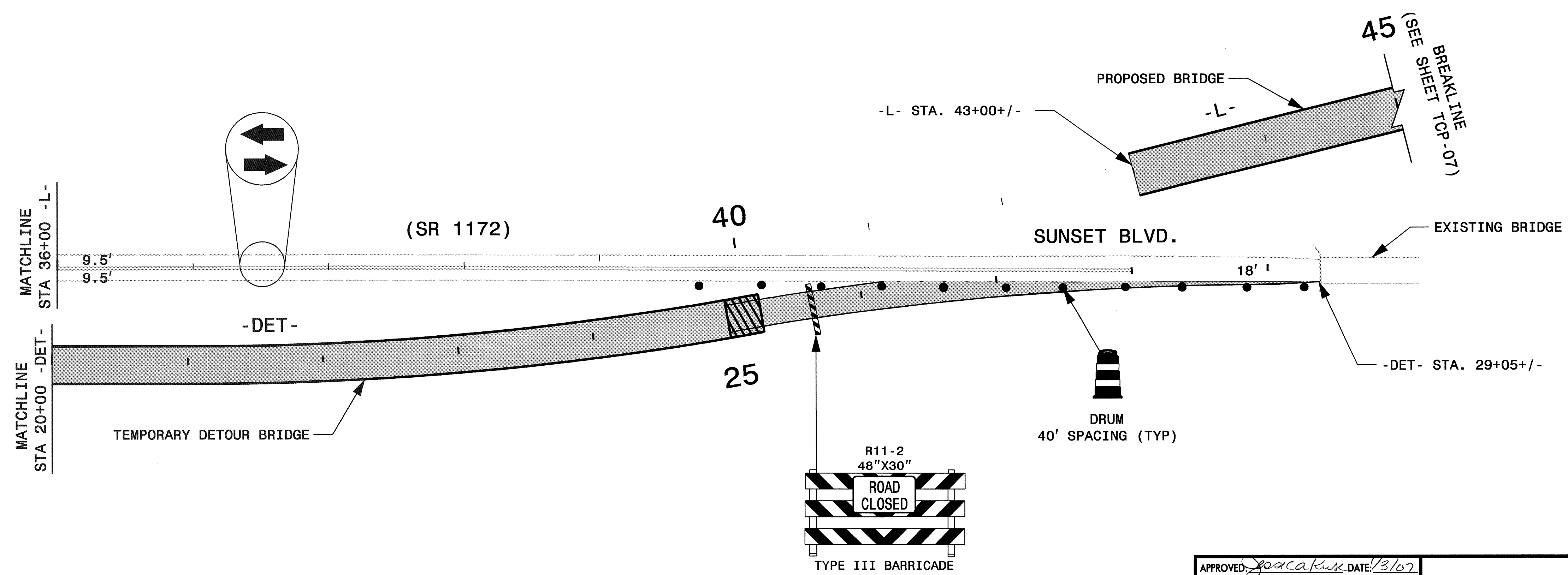
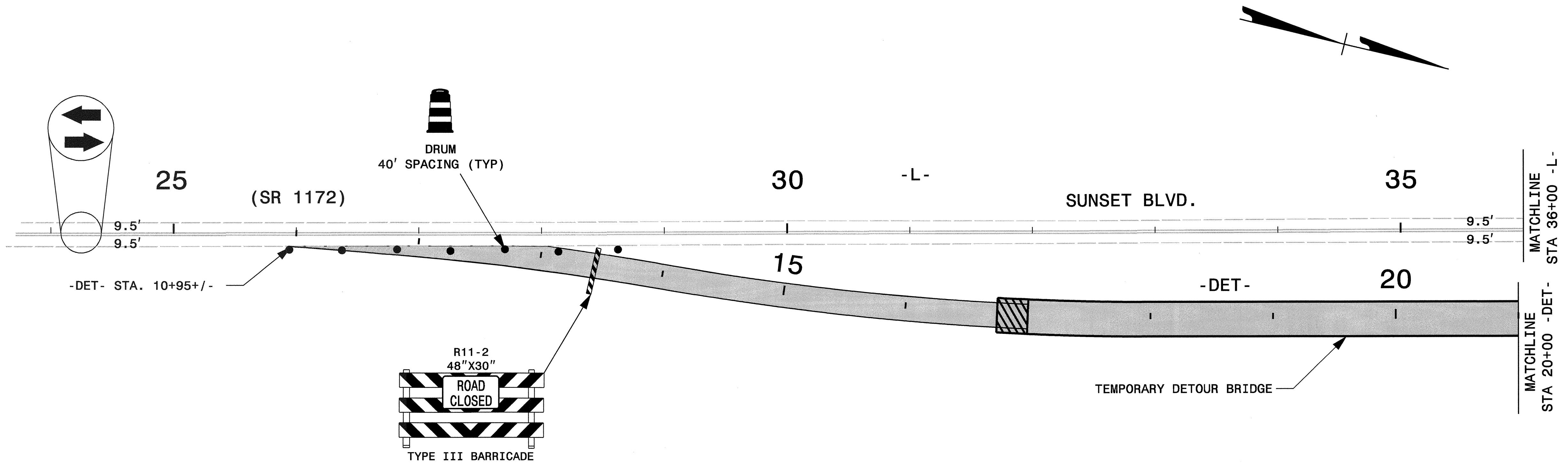
NOTE: SEE SHEET TCP-05 FOR PHASE I CUT SECTIONS.

APPROVED: <i>Josca Kuse</i> DATE: 1/3/07	<b>OVERVIEW 1, PHASE I</b>							
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REVIEWED BY: JSK								


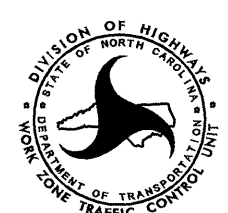


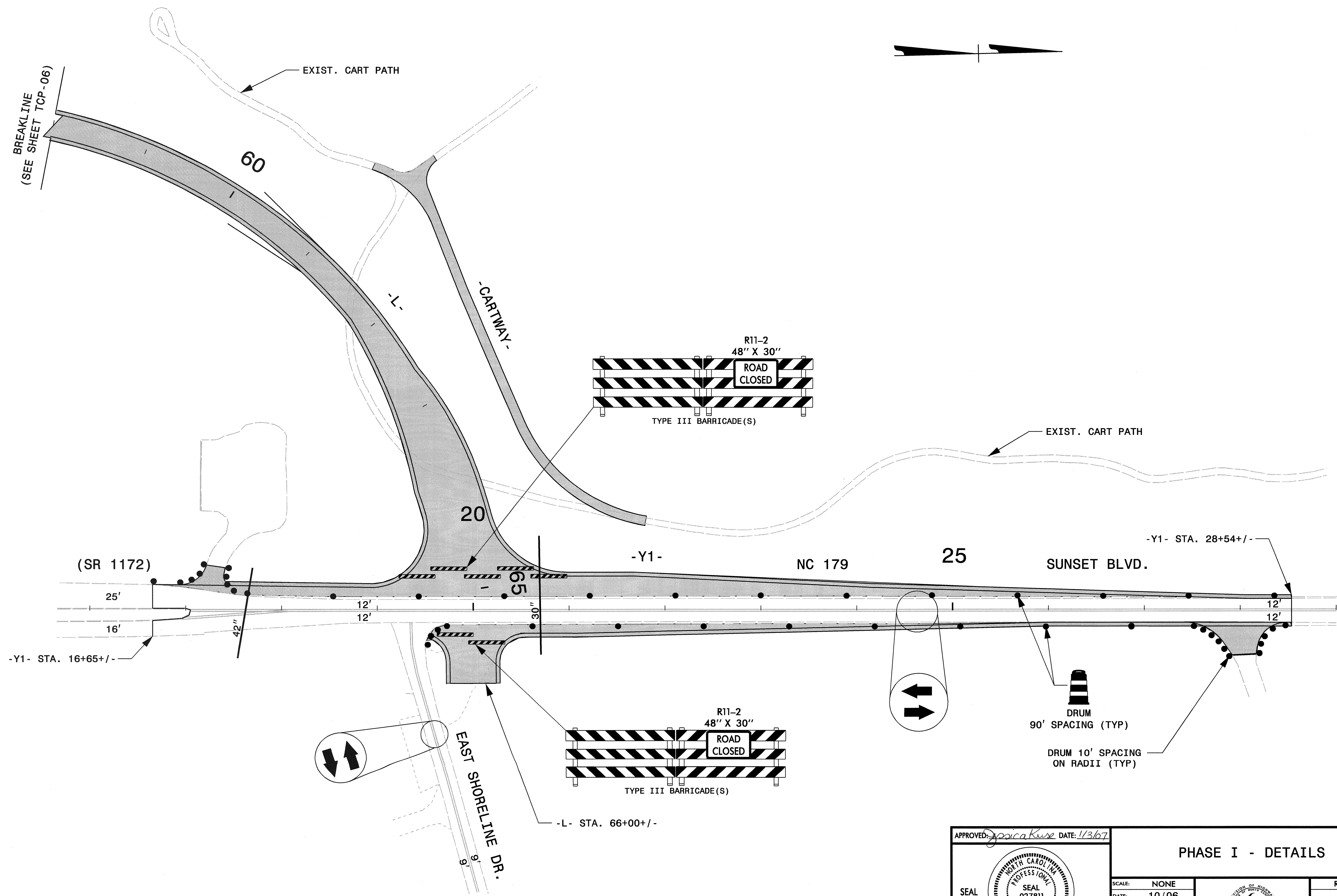
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 AT WZTC2229  
 rmgarrett

APPROVED: <i>[Signature]</i> DATE: 1/2/07	<b>PHASE I CUT SECTIONS</b>	
SCALE: NONE		REVISIONS
DATE: 08/06		
DWG. BY: RMG		
DESIGN BY: RMG		
REVIEWED BY: JSK		CADD FILE



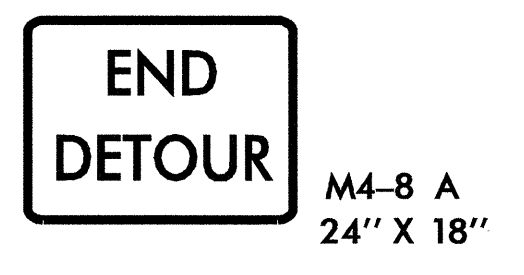
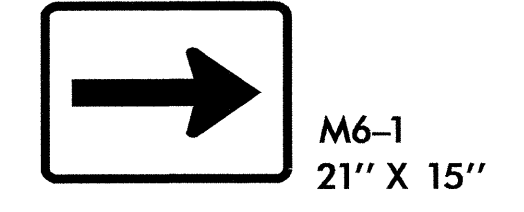
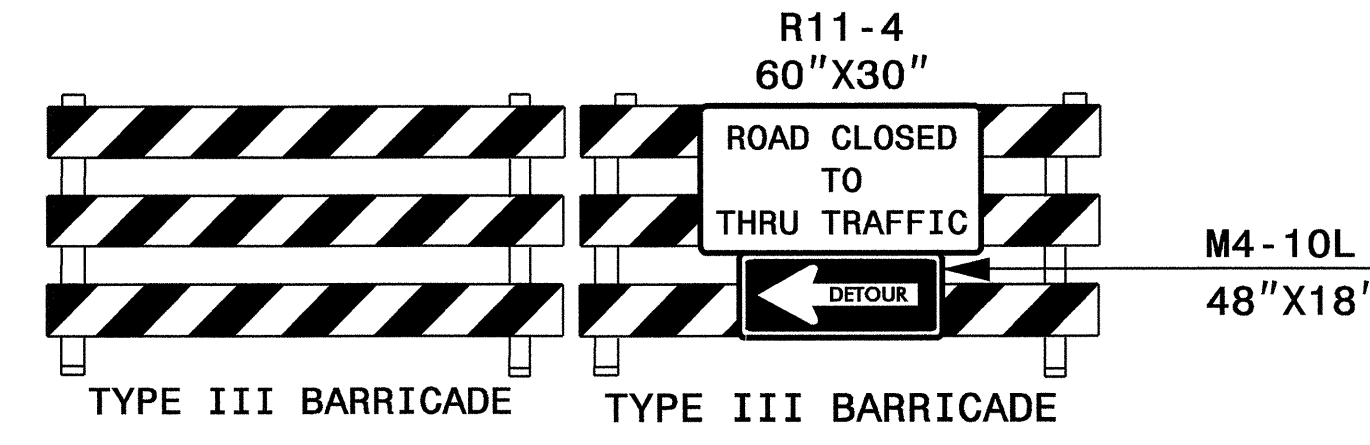
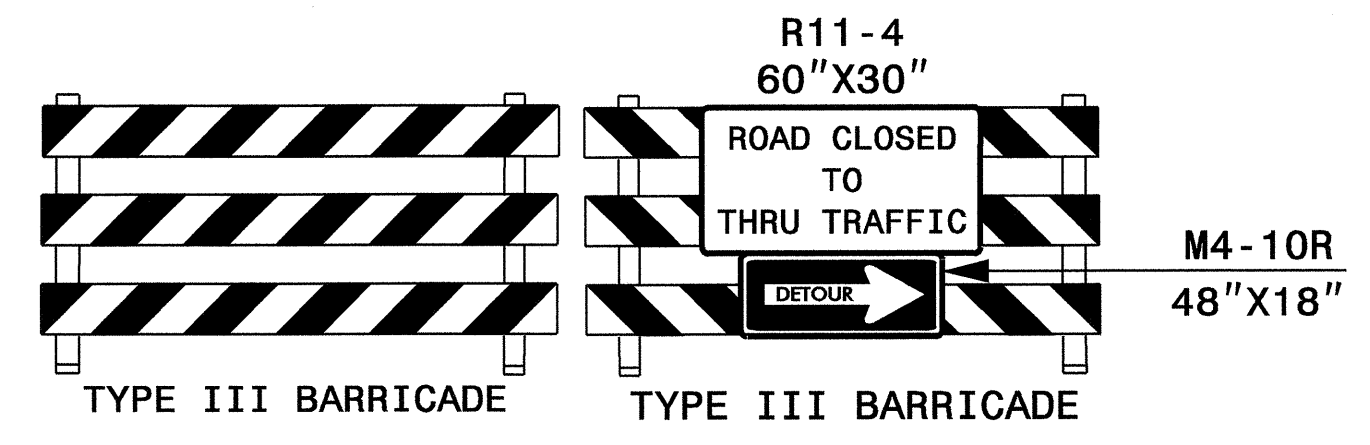
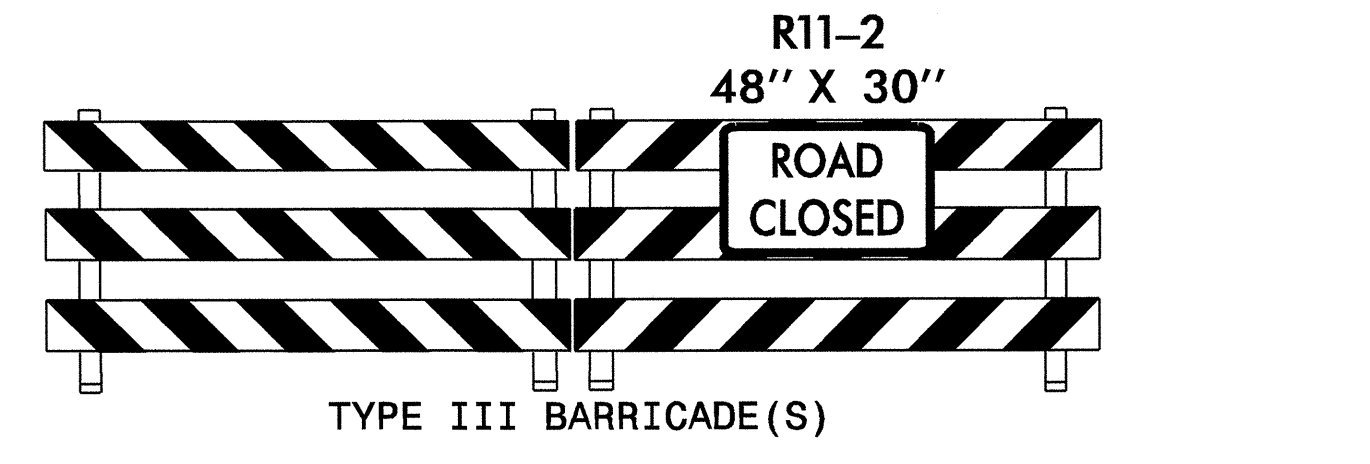
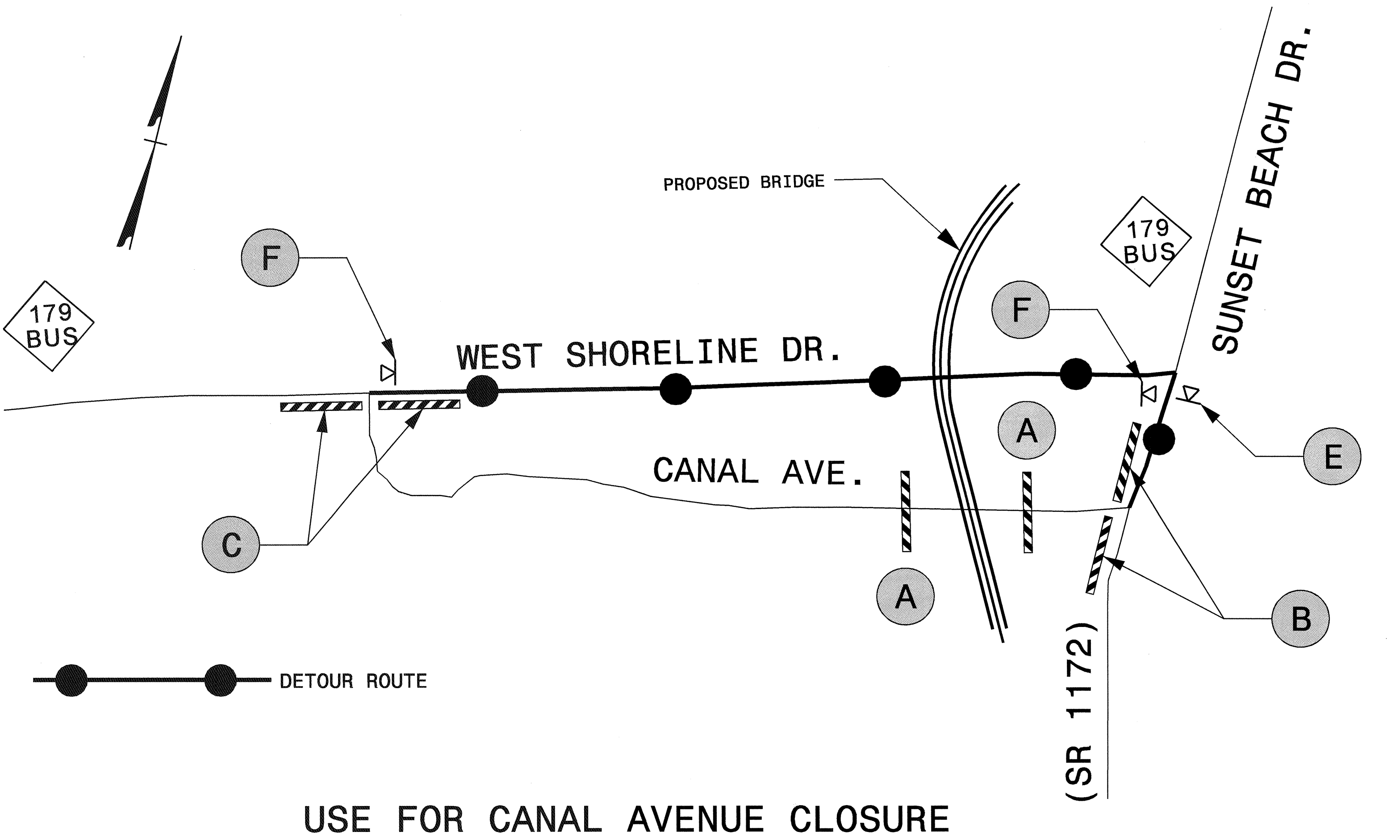
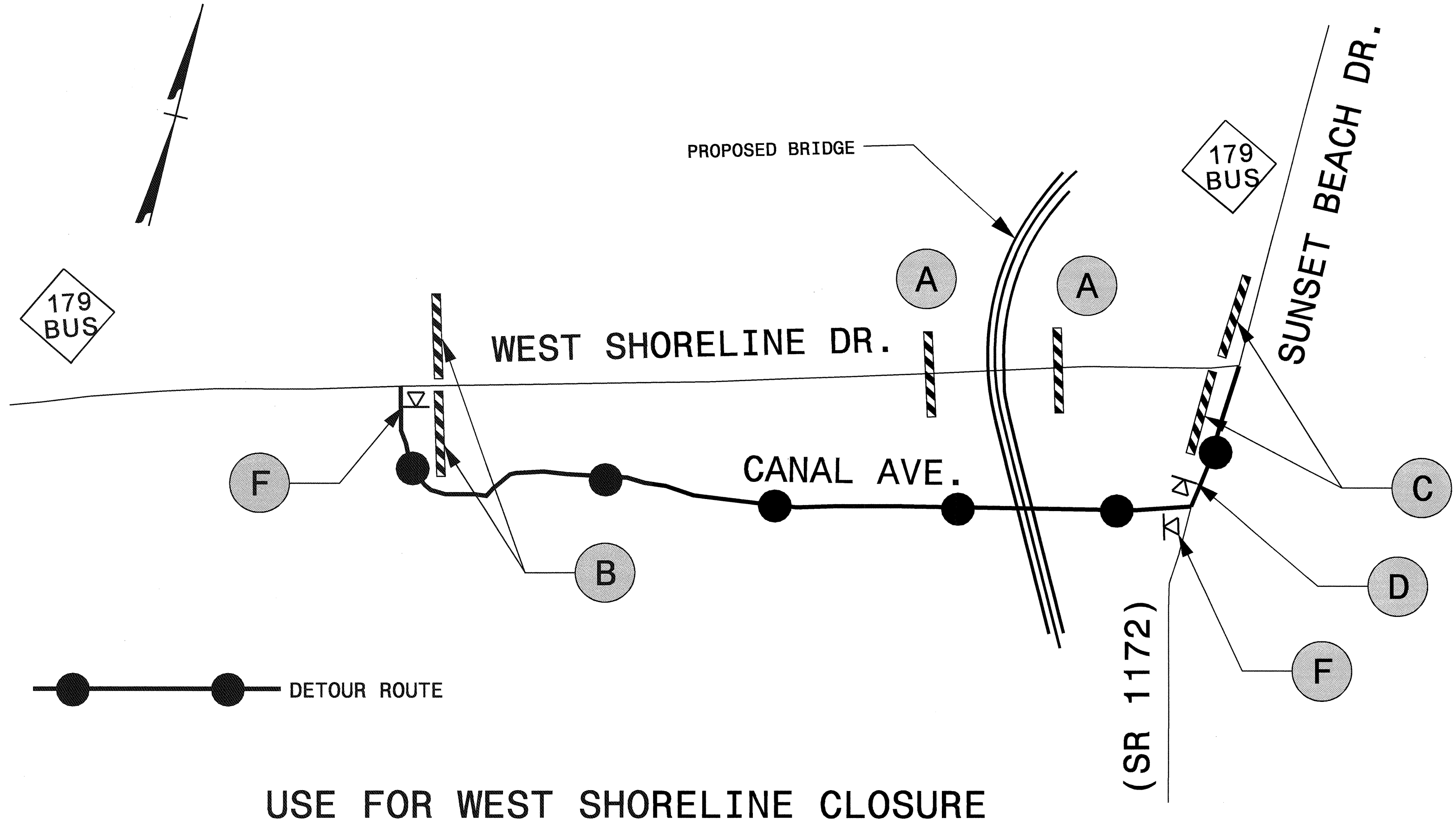
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 rmgarrett

APPROVED: <i>[Signature]</i> DATE: 1/3/07 	<b>PHASE I - DETAILS</b>							
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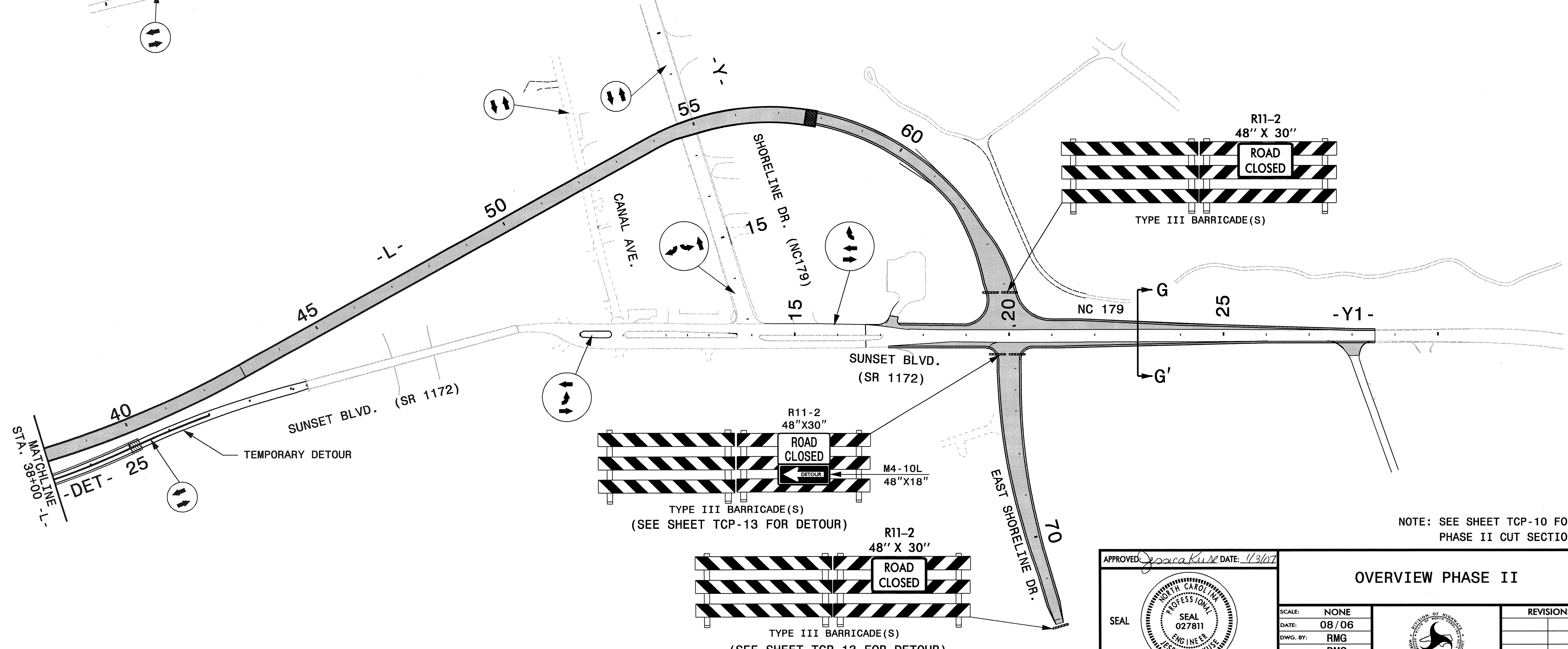
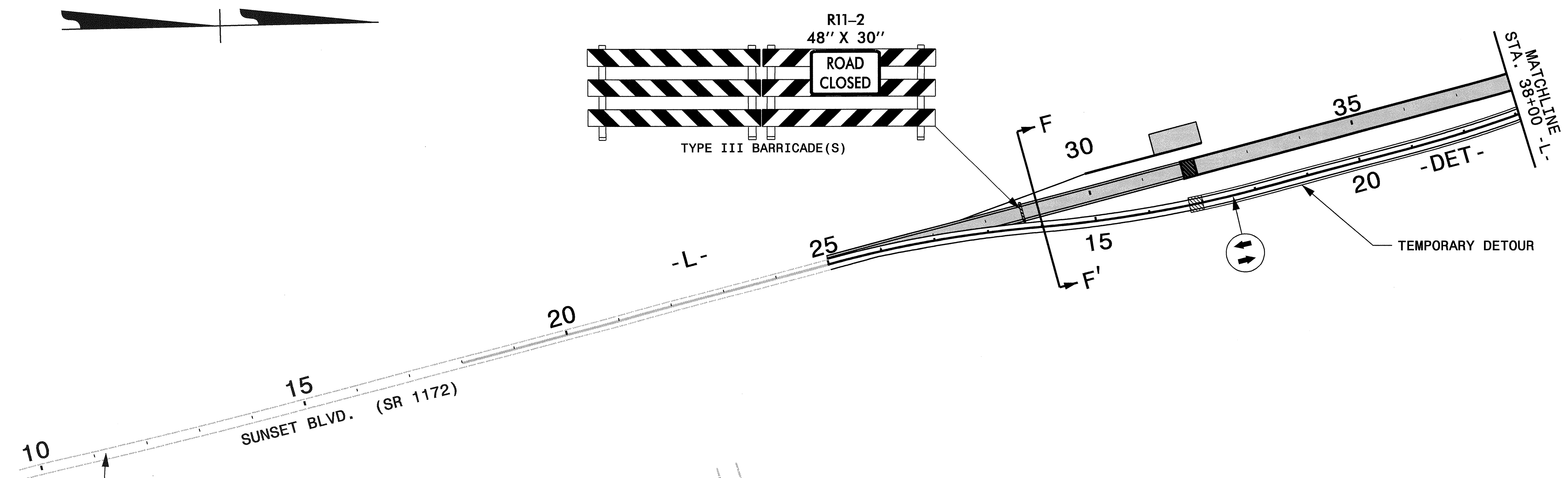
APPROVED: <i>Jessica Kuse</i> DATE: 11/3/07 	<b>PHASE I - DETAILS</b>							
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APPROVED: <i>Jessica D. Kuse</i> DATE: 11/31/07	<b>PHASE I OFFSITE DETOURS</b>	
	SCALE: NONE	
	DATE: 11/06	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK	REVISIONS	

02-JAN-2007 09:40  
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 AT WZTC2229  
 mgarratt

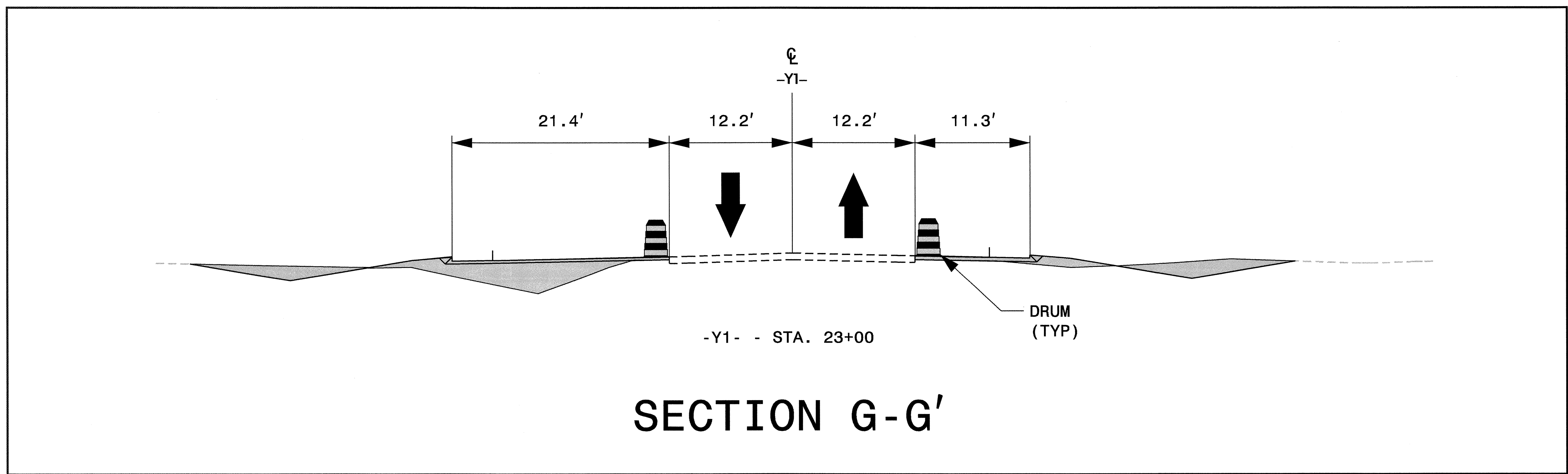
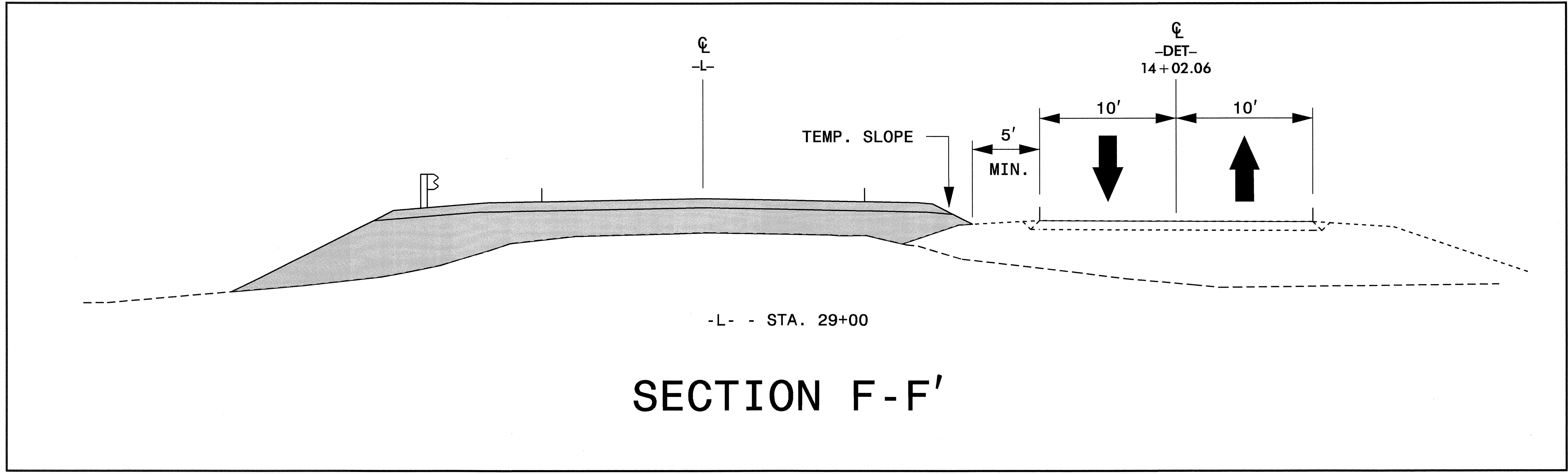




NOTE: SEE SHEET TCP-10 FOR PHASE II CUT SECTIONS.

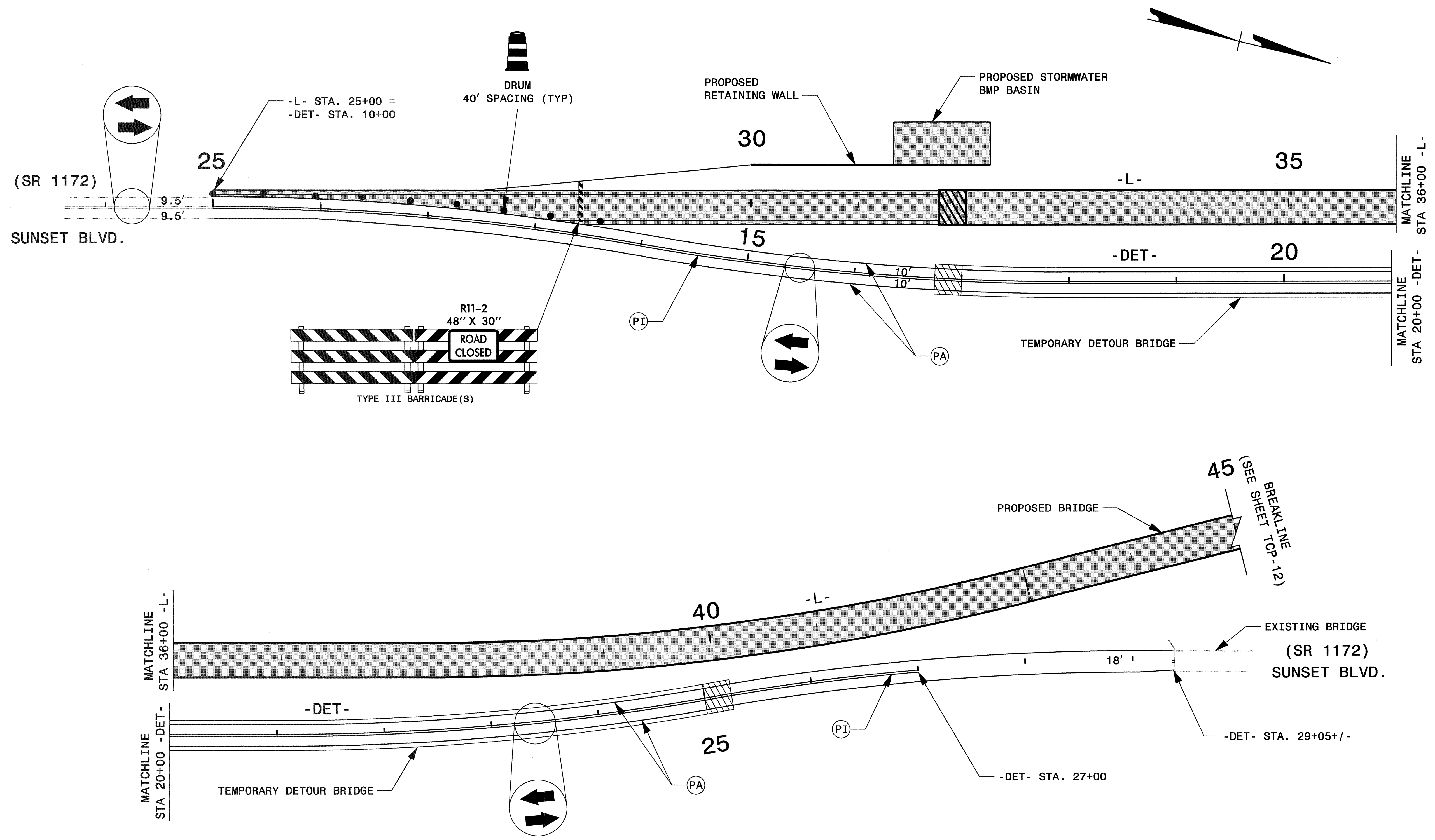
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	REVISIONS						
DATE: 08/06							
DWG. BY: RMG							
DESIGN BY: RMG							
REVIEWED BY: JSK		<small>CADD FILE</small>					

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 rmgarratt  
 W:022229



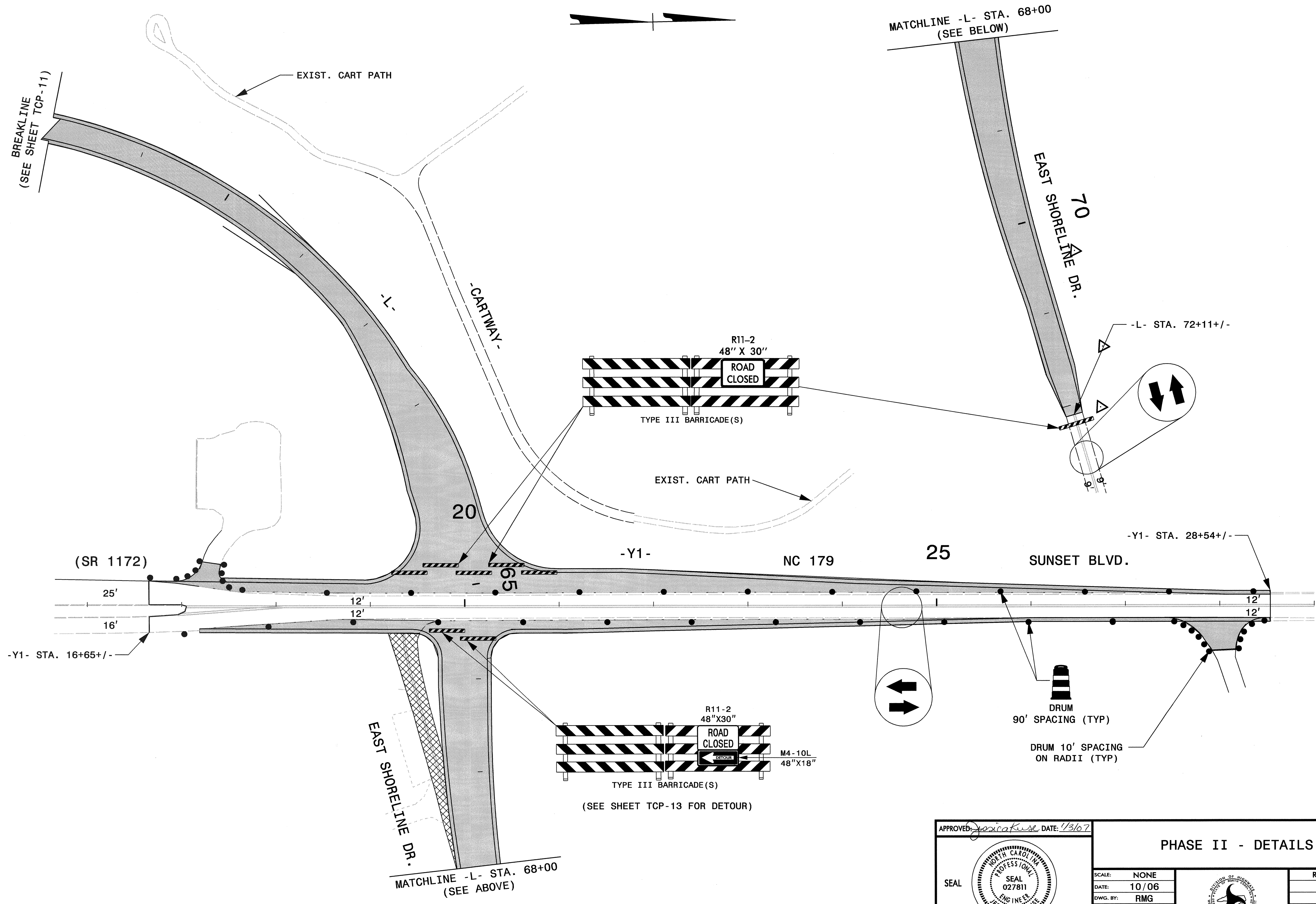
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 AT WZTC2229j  
 mgarrrett

APPROVED: <i>Jessica Kuse</i> DATE: <i>8/3/07</i>	<b>PHASE II CUT SECTIONS</b>									
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	DATE: 08/06									
	DWG. BY: RMG									
	DESIGN BY: RMG									
REVIEWED BY: JSK	<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS							
REVISIONS										



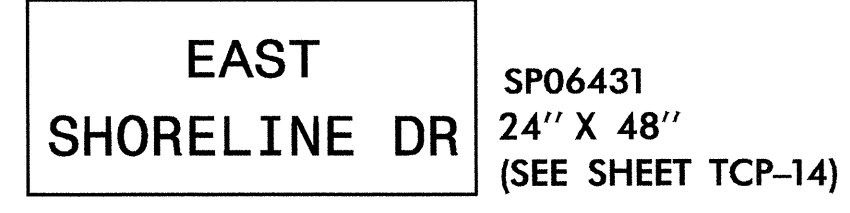
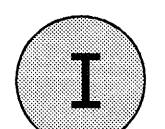
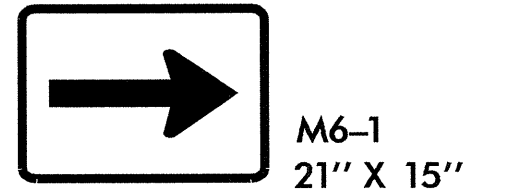
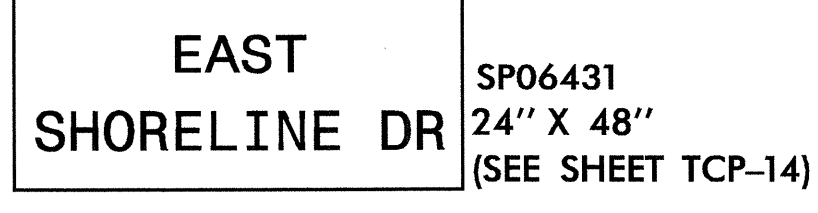
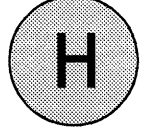
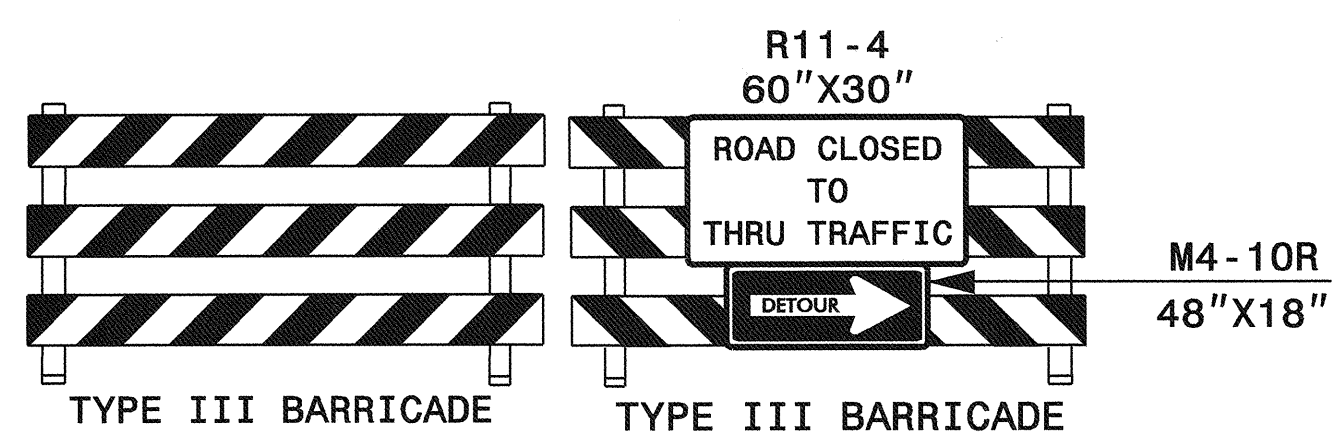
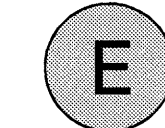
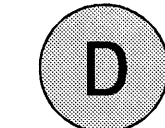
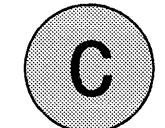
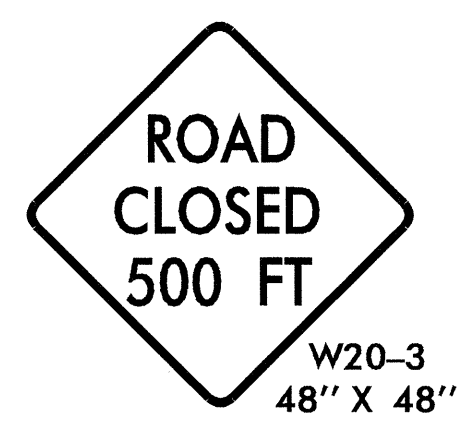
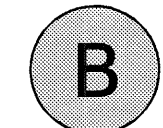
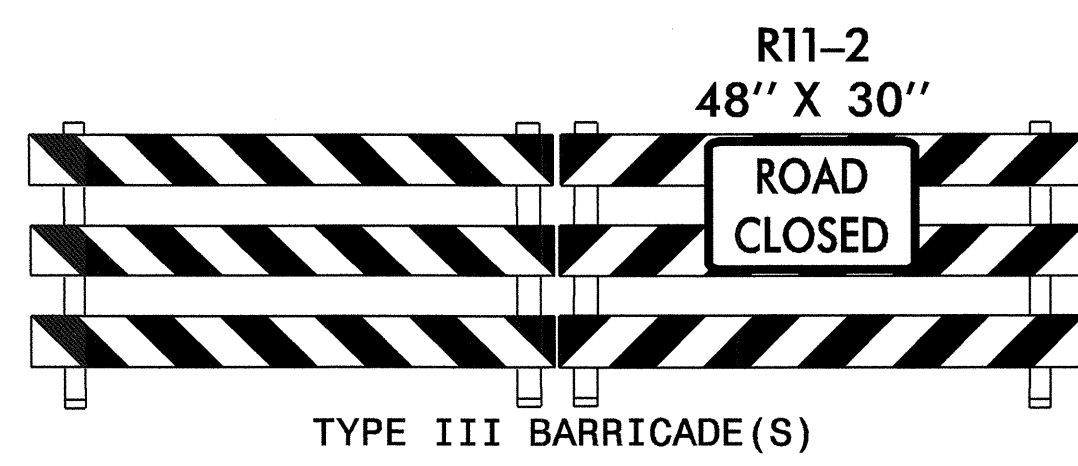
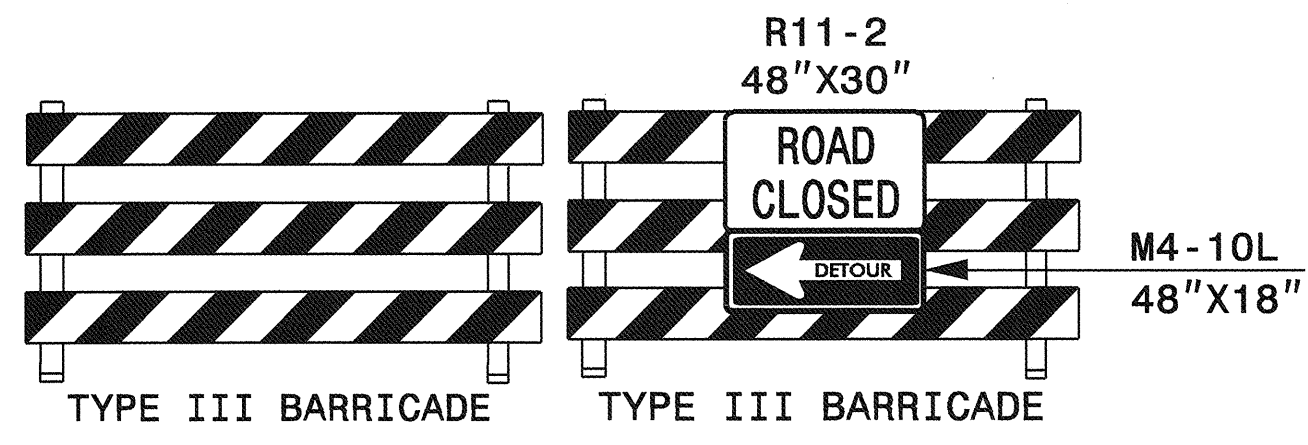
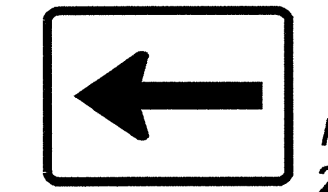
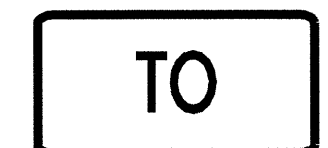
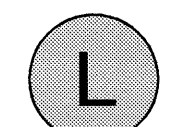
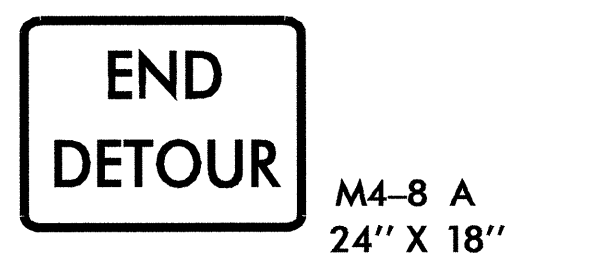
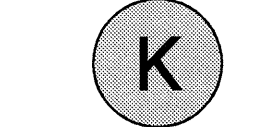
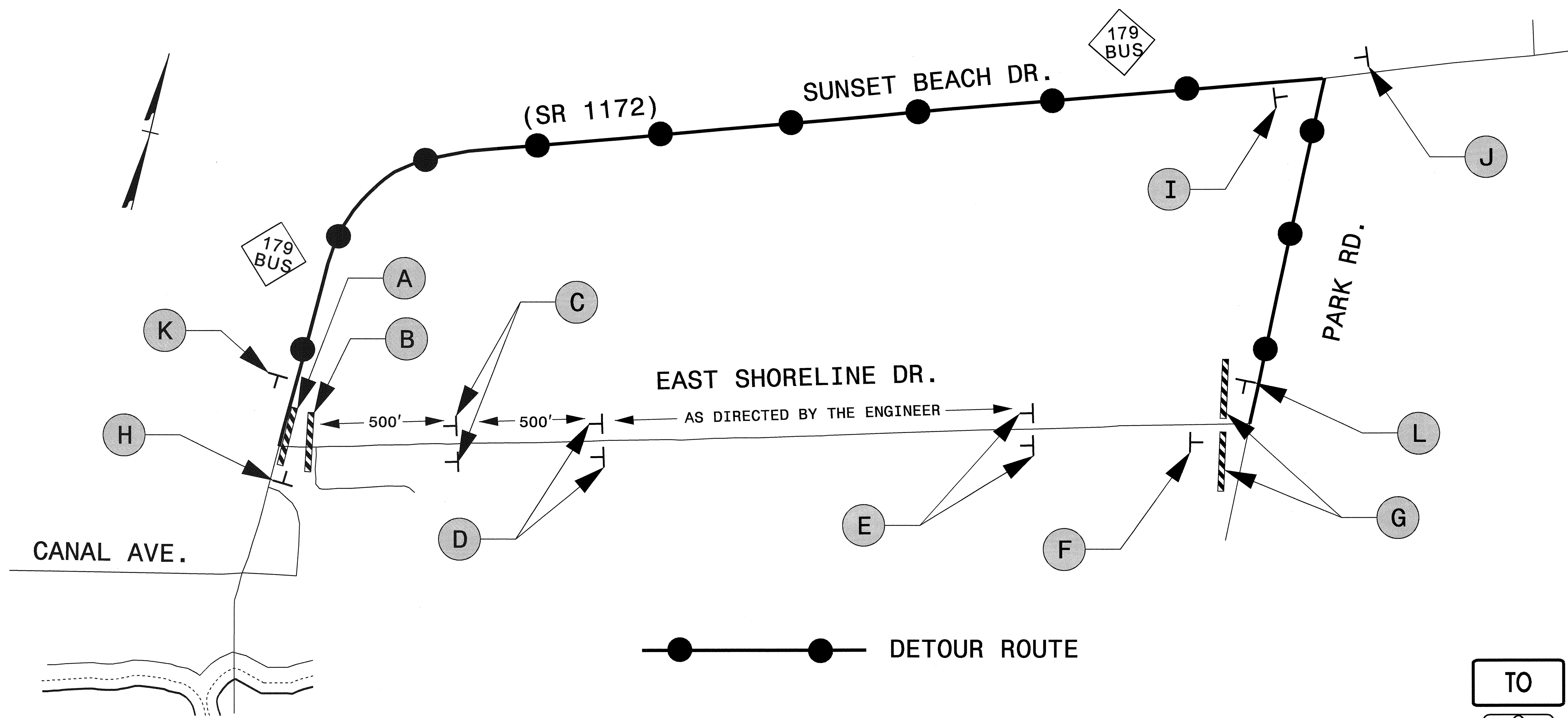
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 AT  
 Proj\Hipp\proj\traffic\trafficcontrol\tcp\B-0682\_TC\_TCP.ilddgn

APPROVED: <i>Joscar</i> DATE: 11/3/07 	<b>PHASE II - DETAILS</b>							
	SCALE: NONE DATE: 10/06 DWG. BY: RMG DESIGN BY: RMG REVIEWED BY: JDK		REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>					



02-JAN-2007 09:38  
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 AT WZTC22229  
 mgarrrett

APPROVED: <i>J. J. Kuse</i> DATE: 1/3/07	<b>PHASE II - DETAILS</b>	
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	DATE: 10/06	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK	REVISIONS	

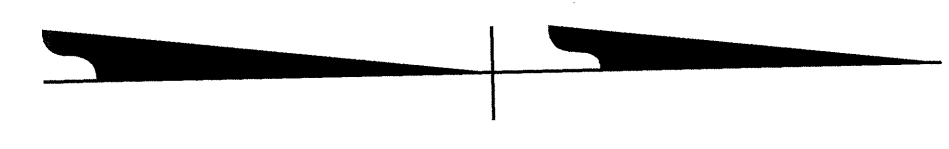
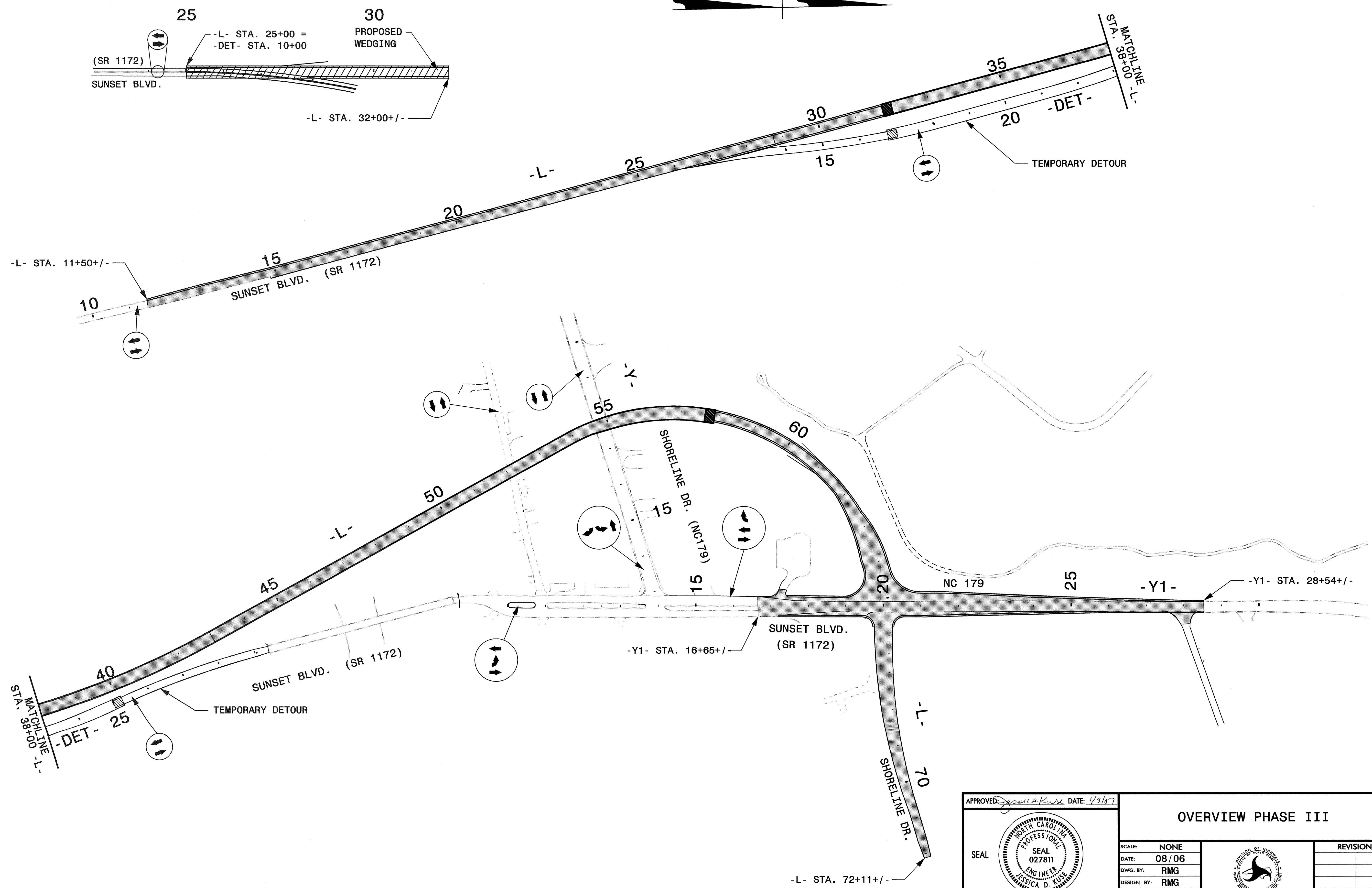


APPROVED: *Josua Kus* DATE: 11/3/07

SEAL

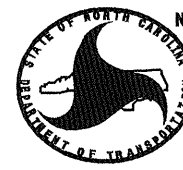
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SCALE: NONE	DATE: 11/06	
DWG. BY: RMG	DESIGN BY: RMG	
REVIEWED BY: JDK		

02-JAN-2007 09:38  
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 WZT22229

APPROVED: <i>Jessica D. Kusi</i> DATE: 1/3/07	<b>OVERVIEW PHASE III</b>	
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	DATE: 08/06	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JSK		

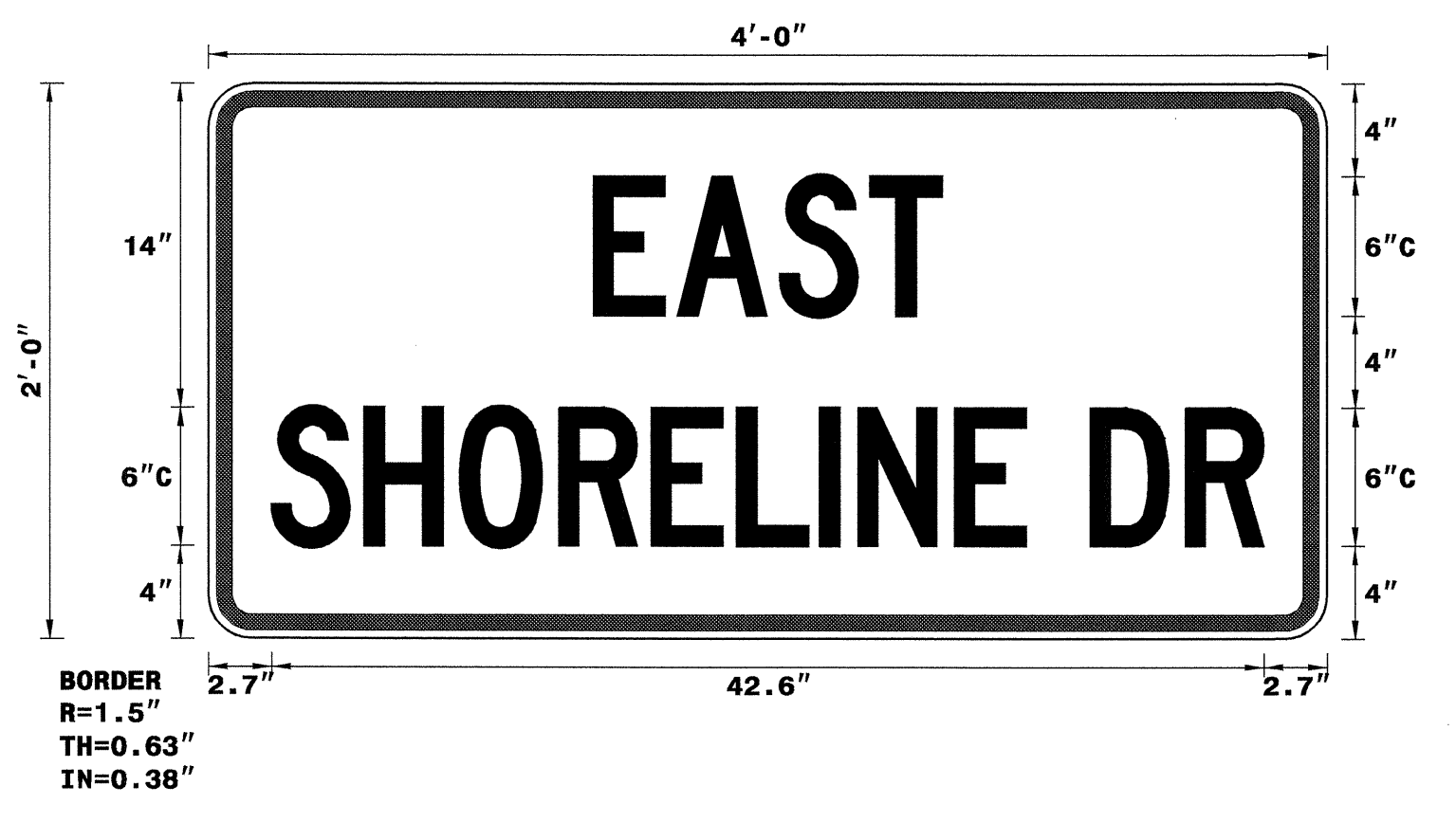


N. C. DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
TRAFFIC ENGINEERING BRANCH  
SIGNING DEPARTMENT

SIGN NUMBER: SP06431      BACKG COLOR: Fluorescent Orange  
TYPE: D                      COPY COLOR: Black  
QUANTITY: 1  
SIGN WIDTH: 48"  
HEIGHT: 24"  
TOTAL AREA: 8.0 Sq.-Ft.  
BORDER TYPE: FLUSH  
RECESS: 0.38"  
WIDTH: 0.63"  
RADIUS: 1.5"  
NO. Z BARS:                      MAT'L: 0.080" (2.0 mm) ALUMINUM  
LENGTH:                         0.079" COMPOSITE

SYMBOL	X	Y	WID	HT

DESIGN BY: R. HENNEIN      CHECKED BY:      STD #: N/A  
PROJECT ID: B-0682          DIV: 3              DATE: Nov 01, 2006



- USE NOTES:  
1. Legend and border shall be direct applied non-reflective sheeting.  
2. Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

Letter Spacing Data																Series/Size
																Text Length
E	A	S	T													C 2000
16.5	3.6	4.4	3.9	3.1	16.5											14.9
S	H	O	R	E	L	I	N	E	D	R						C 2000
2.7	4	4.1	4.3	4	3.7	3.6	1.6	4.2	3.1	2.7	4.1	3.4	2.7			42.6

Spacing Factor is 1 unless specified otherwise

FILENAME: SP06431\_eastshoredr

NORTH CAROLINA D.O.T. SIGN DETAIL

03-JAN-2007 09:09  
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AT WZT22229  
rmgarrett

APPROVED: *[Signature]* DATE: 1/31/07

**SPECIAL SIGN DESIGN**

SCALE: NONE		REVISIONS
DATE: 10/06		
DWG. BY: RMG		
DESIGN BY: RMG		
REVIEWED BY: JDK		