

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
R-2510C	TCP-1

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

R-2510C

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
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
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 & TCP-3	PROJECT NOTES
TCP-3A	TEMPORARY SHORING NOTES
TCP-4 & TCP-5	PROJECT PHASING
TCP-6	OFFSITE DETOUR FOR CLOSURE OF US 17 FOR PIPE INSTALLATION
TCP-7	PHASE I OVERVIEW
TCP-8 THRU TCP-21	PHASE I DETAIL SHEETS
TCP-22	PHASE II OVERVIEW
TCP-23 THRU TCP-32	PHASE II DETAIL SHEETS
TCP-33	TEMPORARY PAVEMENT MARKING SCHEDULE
TCP-34 & TCP-35	ADVANCED WORK ZONE WARNING SIGNS

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 SKINNY DRUM
 - FLASHING ARROW PANEL (TYPE C)
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - PORTABLE CONCRETE BARRIER
 - 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:

10:26:10 09h5:41
F:\TrafficControl\TCP\1002\vr2510c-tcp-top01.dgn
mlamy

<p>PLANS PREPARED BY :</p> <p>RK K</p> <p>RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 • (919) 878-9560</p> <p>FOR DIVISION OF HIGHWAYS</p>	<p>SEAL</p> <p>10/1/2010 B. Keith Skinner</p>	<p>B. K. SKINNER, PE TRAFFIC CONTROL ENGINEER</p>
		<p>M. A. COLE TRAFFIC CONTROL PROJECT DESIGN ENGINEER</p>

GENERAL NOTES

PROJ. REFERENCE NO. R-2510C	SHEET NO. TCP-2
--------------------------------	--------------------

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

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
US 17	MONDAY THRU FRIDAY 6:00AM TO 8:00AM
US 17	MONDAY THRU FRIDAY 4:00PM TO 6:00PM

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
US 17

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 8:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 A.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 A.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 A.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 8:00 A.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 A.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 17	MONDAY THROUGH SUNDAY 6:00 AM TO 11:00 PM

D) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
US 17	6:00 AM TO 8:00 AM AND 4:00 PM TO 6:00 PM MONDAY THRU FRIDAY	15 MINS TRAFFIC SHIFTS

E) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

F) REMOVE LANES 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.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 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 OR A LANE CLOSURE IS INSTALLED.

H) 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.

I) 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.

J) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

K) DO NOT INSTALL MORE THAN 1 MILE OF LANE CLOSURE ON US 17 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

L) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON US 17.

M) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PLANS PREPARED BY:
RK K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560
FOR
DIVISION OF HIGHWAYS

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
19834
B. Keith Skinner

PROJECT NOTES

SCALE: NONE
DATE: 08/09
DWG. BY: MAC
DESIGN BY:
REVIEWED BY: BKS

REVISIONS

GENERAL NOTES, CONTINUED

PAVEMENT EDGE DROP OFF REQUIREMENTS

- N) 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 AN EDGE OF PAVEMENT 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.
- O) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- Q) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. COORDINATE ADVANCE WARNING SIGNS ON THE NORTH END OF THE PROJECT WITH R-2510B AS DIRECTED BY THE ENGINEER.
- R) PROVIDE PERMANENT SIGNING.
- S) PROVIDE DETOUR SIGNING OFF THE PROJECT LIMITS.
- T) COVER OR REMOVE ALL DETOUR SIGNS OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- U) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- V) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

- W) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

- X) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS:

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

TRAFFIC CONTROL DEVICES

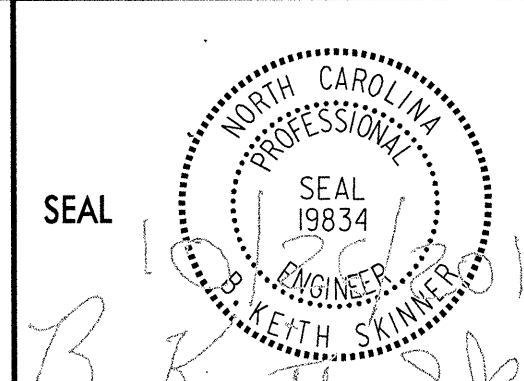
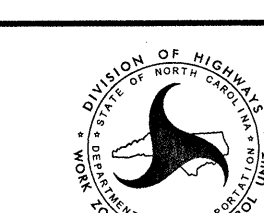
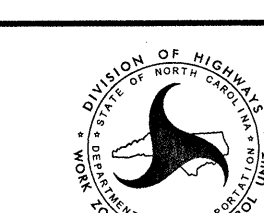
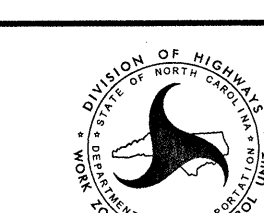
- Y) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- Z) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- AA) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

- BB) INSTALL FINAL PAVEMENT MARKINGS AND MARKERS ON THE FINAL SURFACE AS SHOWN IN THE PAVEMENT MARKING PLAN.
- CC) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMP RAISED (US 17 ONLY)
CONC BRIDGE DECKS	COLD APPLIED PLASTIC (TYPE IV)	TEMP RAISED

- DD) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- EE) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- FF) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- GG) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.
- HH) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

<p>PLANS PREPARED BY :</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">RK K</p> <p style="font-size: 0.8em;">RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 • (919) 878-9560</p> <p style="text-align: center;">FOR DIVISION OF HIGHWAYS</p>	<p>SEAL</p>  <p style="font-size: 0.8em;">B. Keith Skinner</p>	<p style="text-align: center; font-weight: bold; font-size: 1.2em;">PROJECT NOTES CONTINUED</p> <table border="1" style="width: 100%; font-size: 0.8em;"> <tr> <td>SCALE: NONE</td> <td rowspan="4" style="text-align: center;">  </td> <td>REVISIONS</td> </tr> <tr> <td>DATE: 08/09</td> <td></td> </tr> <tr> <td>DESIGN BY: MAC</td> <td></td> </tr> <tr> <td>REVIEWED BY: BKS</td> <td></td> </tr> </table>	SCALE: NONE		REVISIONS	DATE: 08/09		DESIGN BY: MAC		REVIEWED BY: BKS	
SCALE: NONE		REVISIONS									
DATE: 08/09											
DESIGN BY: MAC											
REVIEWED BY: BKS											

PROJECT PHASING

PROJ. REFERENCE NO. R-2510C	SHEET NO. TCP-4
--------------------------------	--------------------

PHASE I

STEP 1 -- INSTALL ADVANCE WORK ZONE WARNING SIGNS. (SEE SHEETS TCP-34 AND TCP-35).

NOTE: STEPS 2 THROUGH 5 MAY BE PERFORMED CONCURRENTLY

STEP 2 -- AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF NB AND SB US 17 -L- TO INCLUDE GRADING, DRAINAGE, CROSS-OVERS, BRIDGES AND CULVERT CONSTRUCTION, (SEE ROADWAY PLANS, SHEETS TCP-6 THRU TCP-21),

-- USING RSD 1101.02, INSTALL TEMPORARY GUARDRAIL FOR CULVERT CONSTRUCTION, (SEE ROADWAY PLANS AND SHEET TCP-13).

STEP 3 -- BEGIN CONSTRUCTING STAGE I CULVERT, (SEE STRUCTURES PLANS AND SHEET TCP-13).

COMPLETE THE WORK OF STEP 4 BETWEEN THE HOURS OF 11:00 P.M. THRU 6:00 A.M. MONDAY THROUGH SUNDAY. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 4 -- A) INSTALL AND COVER SIGNAGE FOR THE CLOSURE OF US 17, MOBILIZE TRAFFIC CONTROL DEVICES FOR TEMPORARY OFF SITE DETOUR, (SEE SHEET TCP-6).

B) UNCOVER DETOUR SIGNS AND CLOSE US 17. WITH TRAFFIC PLACED ON THE OFF SITE DETOUR, MAINTAIN ACCESS TO DRIVES WITHIN THE US 17 CLOSURE, (SEE SHEET TCP-6).

C) INSTALL PROPOSED DRAINAGE UNDER EXISTING US 17 AT THE FOLLOWING LOCATIONS DURING A SINGLE ROAD CLOSURE, (SEE ROADWAY PLANS AND SHEET TCP-6 AND TCP-12),

-L- STA. 104+45 +/- (36")
-L- STA. 181+75 +/- (36").

D) RE-OPEN US 17 TO TRAFFIC, COVER DETOUR SIGNS, AND DE-ACTIVATE DEVICES.

STEP 5 -- USE FLAGGERS AND RSD 1101.02, AS NECESSARY, TO CONSTRUCT THE FOLLOWING:

-- PROPOSED NB AND SB US 17 LANES UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, (SEE ROADWAY PLANS AND SHEETS TCP-7 THRU TCP-20),

-- TEMPORARY PAVEMENT, DETOURS AND CROSSOVERS TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT, (SEE ROADWAY PLANS AND SHEETS TCP-9, TCP-10, TCP-11, TCP-12, TCP-14, TCP-16, TCP-18, TCP-19 AND TCP-21),

-- -Y6- (SEE ROADWAY PLANS AND SHEET TCP-16),

-- -Y7- (SEE ROADWAY PLANS AND SHEET TCP-16),

-- -Y9- (SEE ROADWAY PLANS AND SHEET TCP-19).

STEP 6 -- USING RSD 1101.02, OVERLAY THE EXISTING TRAVEL LANES OF US 17 AS SHOWN ON SHEETS TCP-9, TCP-16 AND TCP-21, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE TO ACCOMMODATE THE PHASE II TRAFFIC PATTERN. SHOULDER UNDERCUT IN THESE AREAS WILL BE DONE IN PHASE II, STEP 4.

PHASE I CONTINUED

STEP 7 -- USING RSD 1101.02, CONSTRUCT -L- TIE INS AND -Y6-, -Y7-, -Y8- AND -Y9- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE TCP-16, TCP-18, AND TCP-19). MAINTAIN ACCESS TO DRIVES.

STEP 8 -- COMPLETE ALL WORK BEGUN IN PHASE I.

PHASE II

MAJOR TRAFFIC SWITCH TO PHASE II PATTERN

STEP 1 -- INSTALL ALL STATIONARY WARNING SIGNS IN PREPARATION FOR THE UPCOMING TRAFFIC SHIFT. COVER SIGNS UNTIL NEEDED, AS DIRECTED BY THE ENGINEER.

INSTALL ALL PERMANENT REGULATORY AND DIRECTIONAL SIGNS AS REQUIRED BY THE SIGNING PLAN BETWEEN STA. 38+15 +/- AND STA. 269+30 +/- . COVER SIGNS UNTIL NEEDED, AS DIRECTED BY THE ENGINEER.

-- AWAY FROM TRAFFIC, INSTALL PAVEMENT MARKINGS AND MARKERS FOR THE PHASE II TRAFFIC PATTERN (SEE TCP-23 THRU TCP-32).

NOTE: ALL NECESSARY SIGNING, AS DIRECTED BY THE ENGINEER, SHALL BE PROPERLY INSTALLED PRIOR TO THE SHIFT.

NOTE: WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK OF STEP 2 IN A SINGLE WORK PERIOD

STEP 2 -- TIE IN -CROSS OVER 1- NB AND -CROSS OVER 2- NB AND SPLIT NB AND SB US 17 TRAFFIC BETWEEN THE DETOURS AS DESCRIBED BELOW:

A) USING FLAGGERS AND RSD 1101.02, TIE IN THE NB LANES OF -CROSS OVER 1- AND -CROSS OVER 2- AND PLACE TEMPORARY DOUBLE YELLOW CENTERLINE AND WHITE EDGELINE, (SEE SHEETS TCP-23 AND TCP-28),

USING RSD 1101.02, POSITION FLAGGERS AT MILL RD. -Y7- AND WHARTON STATION RD. TO STOP TRAFFIC WHEN US 17 IS SWITCHED IN STEP B.

B) USE FLAGGERS OR POLICE TO STOP TRAFFIC FROM ENTERING US 17 FROM EITHER DIRECTION OF MILL RD. -Y7- AND WHARTON STATION RD. USING DRUMS AND BARRICADES, CLOSE MEDIAN OPENING AND TURN LANES AT US 17 AND MILL RD. -Y7-

USING PILOT VEHICLES AND/OR POLICE, SWITCH NB US 17 TRAFFIC INTO THE OUTSIDE LANE OF THE PROPOSED NB LANES IN A ONE LANE ONE-WAY PATTERN. SB US 17 TRAFFIC REMAINS IN THE EXISTING SB TRAVEL LANE.

C) RE-OPEN MILL RD. -Y7- TO RIGHT IN/RIGHT OUT ACCESS

OPEN THE MEDIAN TO LEFT TURNS AND/OR U-TURNS AT THE FOLLOWING LOCATIONS:

1. -L- STA. 57+00 +/- -Y3- CHERRY RUN RD.,
2. -L- STA. 106+00 +/- -Y4- NEW HOPE RD.,
3. -L- STA. 137+00 +/- -Y5- BALL RD.,
4. -L- STA. 235+00 +/- -Y8- NC 171,

OPEN -Y6-, -Y7-, AND -Y9-

D) USE DRUMS TO CLOSE THE EXISTING NB US 17 MEDIAN LANE AND THE PROPOSED NB US 17 MEDIAN LANE BETWEEN -L- STA. 36+00 +/- AND -L- STA. 45+50 +/- AND -L- STA. 201+00 +/- AND -L- STA. 207+00 +/-.

PHASE II CONTINUED

NOTE: WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK OF STEP 3 IN A SINGLE WORK PERIOD

STEP 3 -- TIE IN -CROSS OVER 1- (SB) AND -CROSS OVER 2- (SB) AND OPEN TO SB TRAFFIC AS DESCRIBED BELOW:

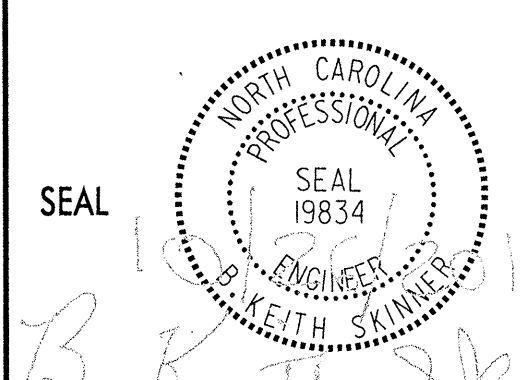
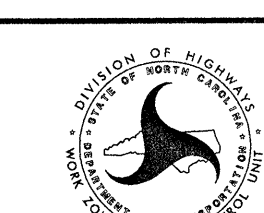
A) USE RSD 1101.02 AND FLAGGERS TO SLOW/DIRECT TRAFFIC, AND BEHIND DRUMS, TIE IN PROPOSED -CROSS OVER 1- AND STRIPE FROM -L- STA. 36+00 +/- TO -L- STA. 45+50 +/- AND -L- STA. 201+00 +/- TO -L- STA. 207+00 +/- ESTABLISH A ONE LANE, ONE-WAY TRAFFIC PATTERN,

B) REPOSITION FLAGGER AT STA. 213+00 AND PLACE SB TRAFFIC ON -CROSS OVER 1-. TIE IN THE SB LANE OF -CROSS OVER 2-, PLACE REMAINING MARKINGS (SEE SHEETS TCP-23 THRU TCP-32) AND OPEN TO A TWO LANE TWO-WAY TRAFFIC PATTERN.

STEP 4 -- USING RSD 1101.02 AND ALTERNATE LANE CLOSURES, PERFORM UNDERCUT/SOULDER REPAIR AND WEDGE/WIDEN EXISTING US 17 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS DETAILED ON SHEETS TCP-23 THROUGH TCP-32,

-- CONSTRUCT REMAINING DRAINAGE AND STAGE II CULVERT,
-- CONSTRUCT REMAINING BRIDGES.

10\26\10_09\08\35
r:\TrafficControl\TCP\1002\vr2510c_tcp_tcp04.dgn
mlomy

<p>PLANS PREPARED BY : RK K RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 • (919) 878-9560 FOR DIVISION OF HIGHWAYS</p>	<p>SEAL</p> 	<h2 style="margin: 0;">PROJECT PHASING</h2>										
<p>SCALE: NONE DATE: 08/09 DWG. BY: MAC DESIGN BY: MAC REVIEWED BY: BKS</p>												
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">REVISIONS</th> </tr> </thead> <tbody> <tr> <td style="width: 50%; height: 20px;"></td> <td style="width: 50%;"></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> </tbody> </table>	REVISIONS									
REVISIONS												

PROJECT PHASING CONTINUED

PROJ. REFERENCE NO.	SHEET NO.
R-2510C	TCP-5

PHASE III

STEP 1 -- OPEN THE SOUTHERN END OF -L- US 17 FROM
-L- STA. 38+15 +/- TO -L- STA. 212+00 +/- TO
THE FINAL TRAFFIC PATTERN AS DESCRIBED BELOW:

A) USING RSD 1101.02 AND FLAGGERS, PLACE US 17
TRAFFIC IN A ONE LANE, TWO-WAY DIVIDED PATTERN
IN THE OUTSIDE TRAVEL LANES FROM -L- STA. 36+00 +/-
TO -L- STA. 212+00 +/- . MILL OUT THE SB AND
NB US 17 MEDIAN LANES ALONG -CROSS OVER 1- AND
AND -CROSS OVER 2-. REMOVE REMAINING CROSS OVER
PAVEMENT FROM PROPOSED US 17.

B) USING FLAGGERS AS NECESSARY, PERFORM THE
FOLLOWING:

1. COMPLETE PROPOSED - US 17 MEDIAN GRADING AND
DRAINAGE BETWEEN -L- STA. 38+15 +/- TO
-L- STA. 45+50 +/- AND -L- STA. 201+00 +/-
TO -L- STA. 206+00 +/- ,
2. COMPLETE THE PLACEMENT OF PROPOSED SIGNING AND
TEMPORARY PAVEMENT MARKINGS IN THE FINAL PATTERN
BETWEEN -L- STA. 38+15 +/- AND -L- STA. 274+36 +/- .

STEP 2 -- USE RSD 1101.02 TO CONSTRUCT THE MONOLITHIC CONCRETE
ISLANDS AT THE FOLLOWING LOCATIONS ON -L- US 17:

FROM -L- STA. 44+50 +/- TO -L- STA. 46+00 +/- ,
FROM -L- STA. 57+20 +/- TO -L- STA. 58+50 +/- ,
FROM -L- STA. 92+71 +/- TO -L- STA. 93+71 +/- ,
FROM -L- STA. 104+80 +/- TO -L- STA. 106+30 +/- ,
FROM -L- STA. 128+15 +/- TO -L- STA. 129+15 +/- ,
FROM -L- STA. 136+90 +/- TO -L- STA. 138+25 +/- ,
FROM -L- STA. 168+75 +/- TO -L- STA. 170+25 +/- ,
FROM -L- STA. 197+50 +/- TO -L- STA. 198+50 +/- ,
FROM -L- STA. 209+60 +/- TO -L- STA. 211+70 +/- ,
FROM -L- STA. 234+25 +/- TO -L- STA. 236+05 +/- ,
FROM -L- STA. 245+90 +/- TO -L- STA. 247+50 +/- ,
FROM -L- STA. 257+70 +/- TO -L- STA. 259+10 +/- ,

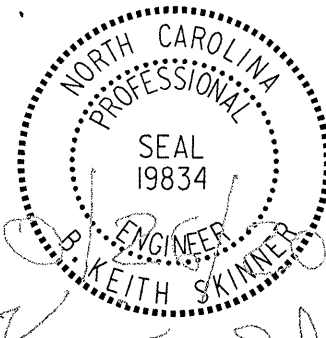
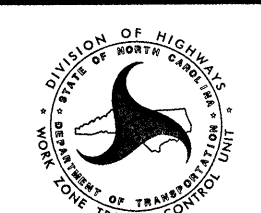
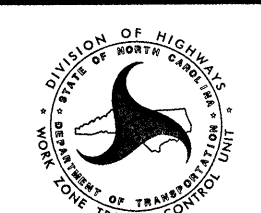
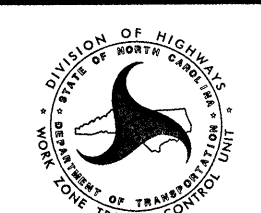
STEP 3 -- USE RSD 1101.02 AND FLAGGERS TO CONSTRUCT THE
MONOLITHIC CONCRETE ISLANDS AT THE FOLLOWING
-Y- LINE INTERSECTIONS WITH -L- US 17:

-Y3- CHERRY RUN RD. ,
-Y4- NEW HOPE RD. ,
-Y5- BALL RD. ,
-Y6- WHARTON STATION RD. ,
-Y7- MILL RD. ,
-Y8- NC 171 ,
-Y9- ROBERSON RD. .

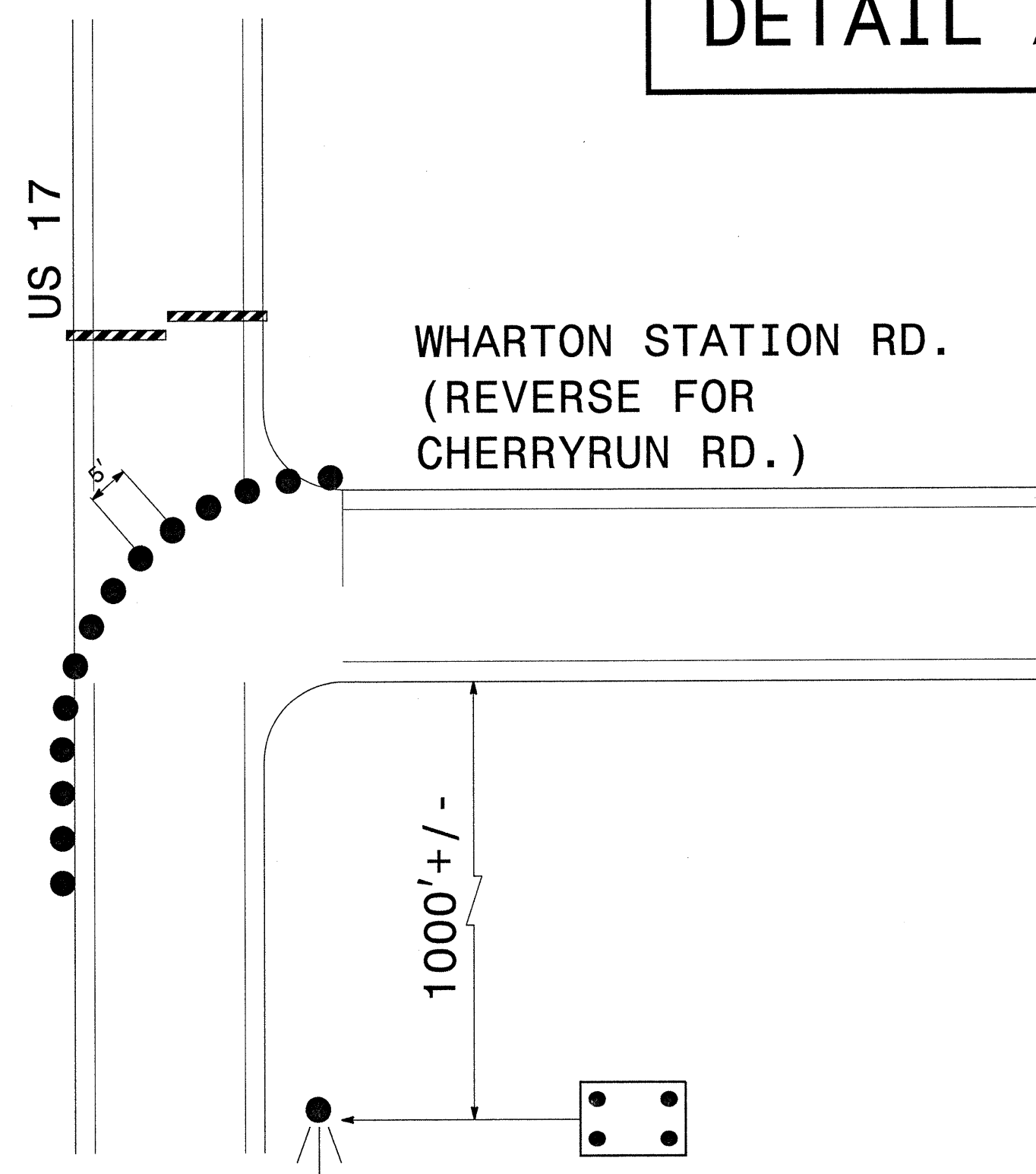
STEP 4 -- USING RSD 1101.02 AND ALTERNATING LANE CLOSURES,
PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL
PAVEMENT MARKINGS AND MARKERS THROUGHOUT THE PROJECT.

STEP 5 -- REMOVE ALL TRAFFIC CONTROL DEVICES.

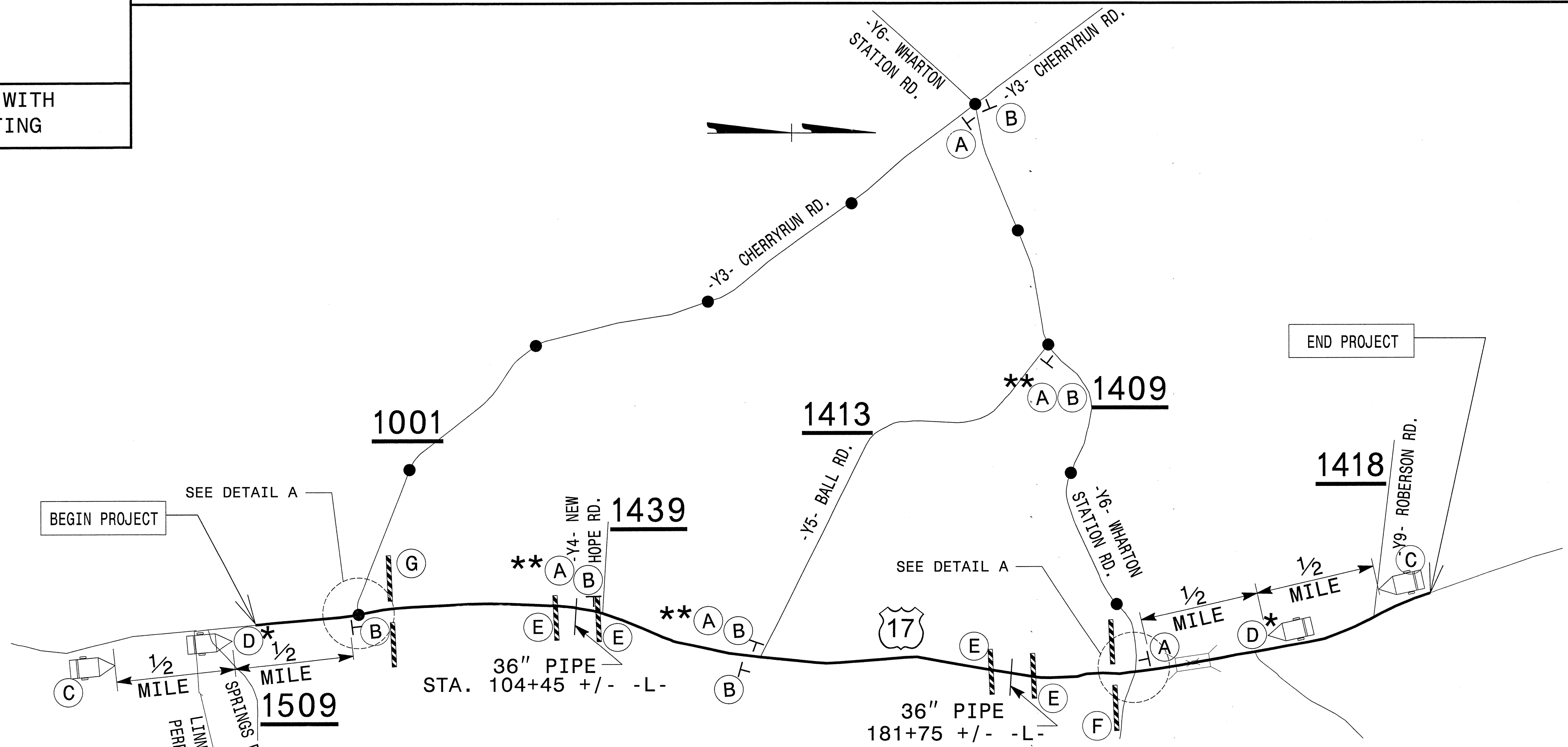
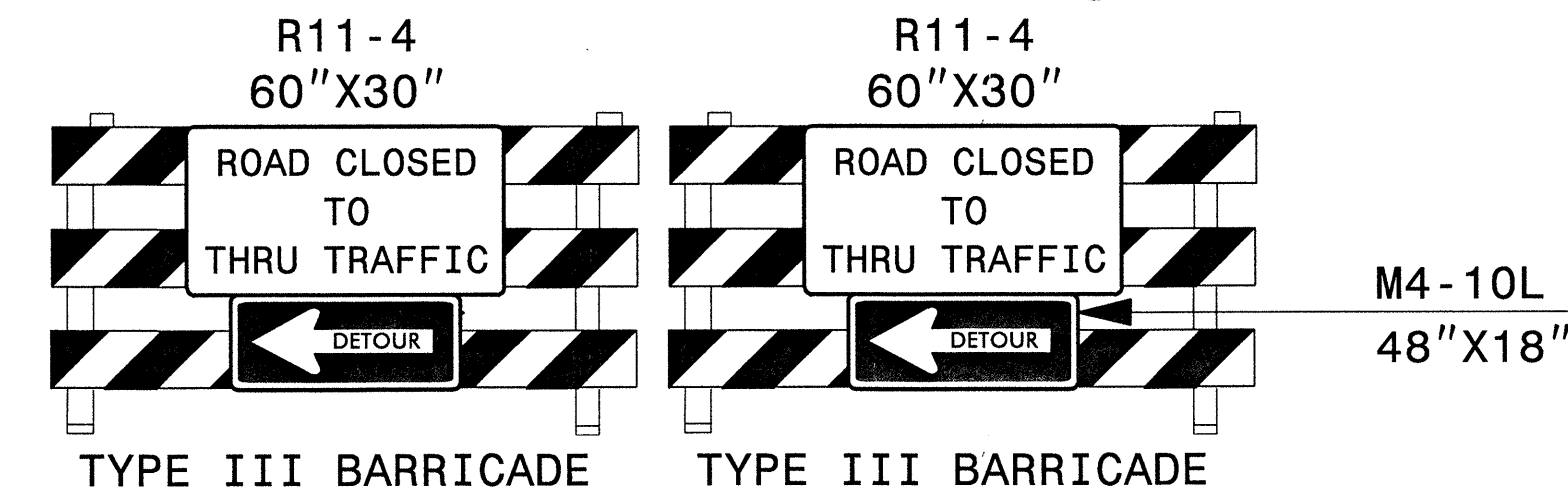
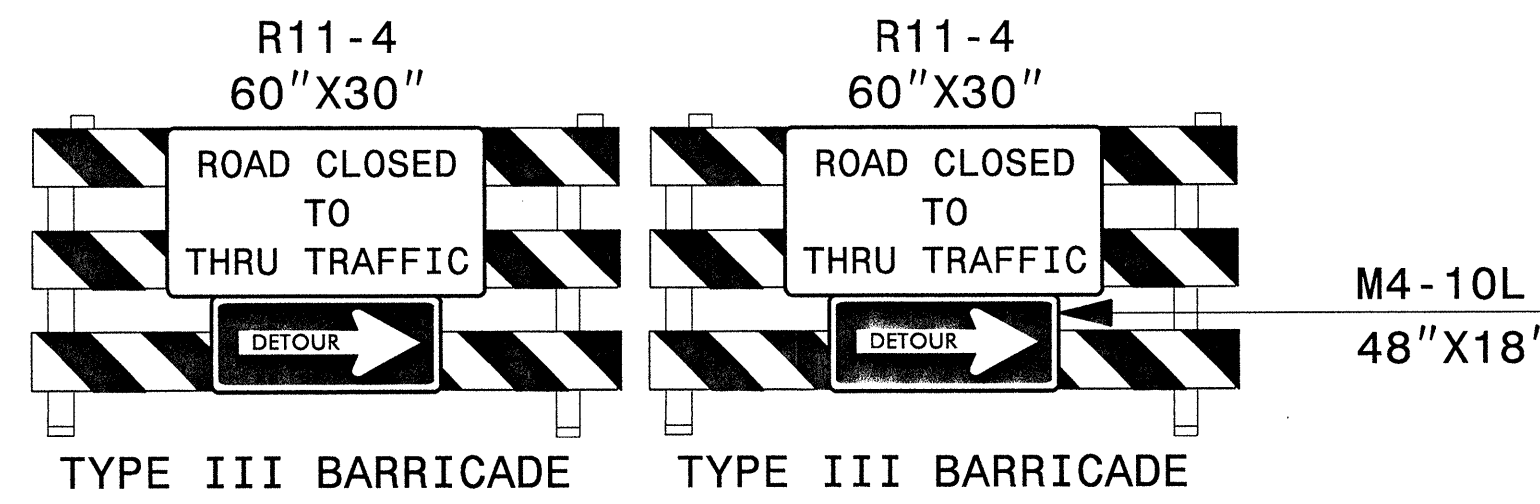
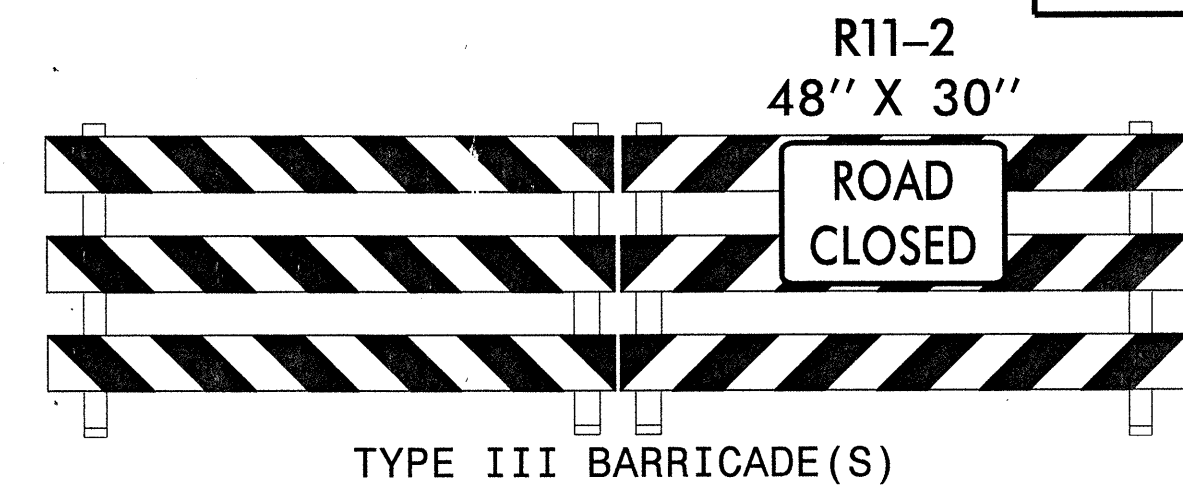
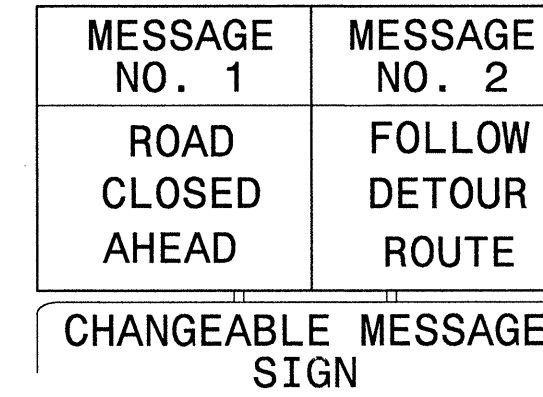
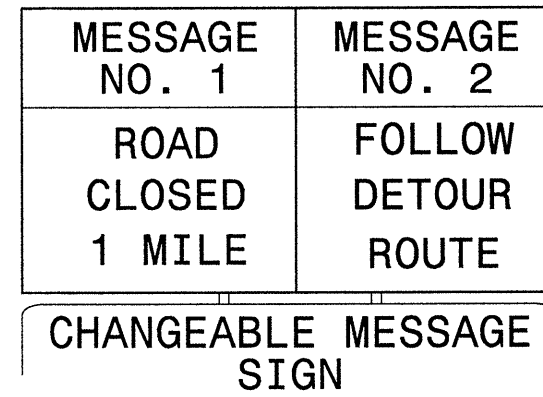
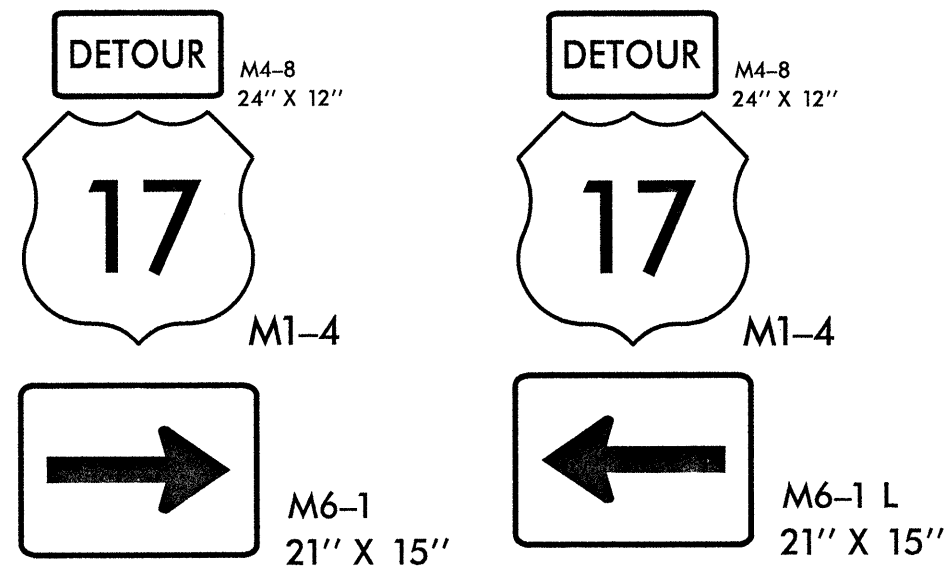
I:\2610_09\08\48
r:\traffic\control\tcp\1002\2510c_tcp_tcp05.dgn
mlm

<p style="font-size: 8px;">PLANS PREPARED BY :</p> <p style="font-size: 24px; font-weight: bold; text-align: center;">RK K</p> <p style="font-size: 8px;">RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 • (919) 878-9560</p> <p style="text-align: center; font-weight: bold;">FOR DIVISION OF HIGHWAYS</p>	<p style="text-align: center;">SEAL</p> <div style="text-align: center;">  <p style="font-size: 8px;">NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19834 KEITH SKINNER</p> </div> <p style="font-size: 12px; font-family: cursive;">B. Kertis Skinner</p>	<p style="text-align: center; font-weight: bold; font-size: 14px;">PROJECT PHASING CONTINUED</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <tr> <td style="width: 30%;">SCALE: NONE</td> <td rowspan="4" style="width: 30%; text-align: center;">  </td> <td style="width: 40%; text-align: center;">REVISIONS</td> </tr> <tr> <td>DATE: 08/09</td> <td style="border: none;"></td> </tr> <tr> <td>DESIGN BY: MAC</td> <td style="border: none;"></td> </tr> <tr> <td>REVIEWED BY: BKS</td> <td style="border: none;"></td> </tr> </table>	SCALE: NONE		REVISIONS	DATE: 08/09		DESIGN BY: MAC		REVIEWED BY: BKS	
SCALE: NONE		REVISIONS									
DATE: 08/09											
DESIGN BY: MAC											
REVIEWED BY: BKS											

DETAIL A



NOTE: ILLUMINATE INTERSECTION WITH TEMPORARY PORTABLE LIGHTING



* CMS AT THIS LOCATION TO BE PAID FOR AS CHANGEABLE MESSAGE SIGN (SHORT TERM)

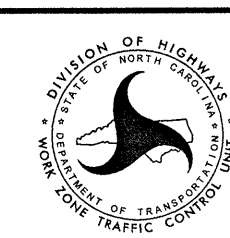
** USE DETOUR SIGN ASSEMBLY (A) OR (B) DEPENDING ON THE CLOSURE AREA OF US 17.

PLANS PREPARED BY:
RK K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS

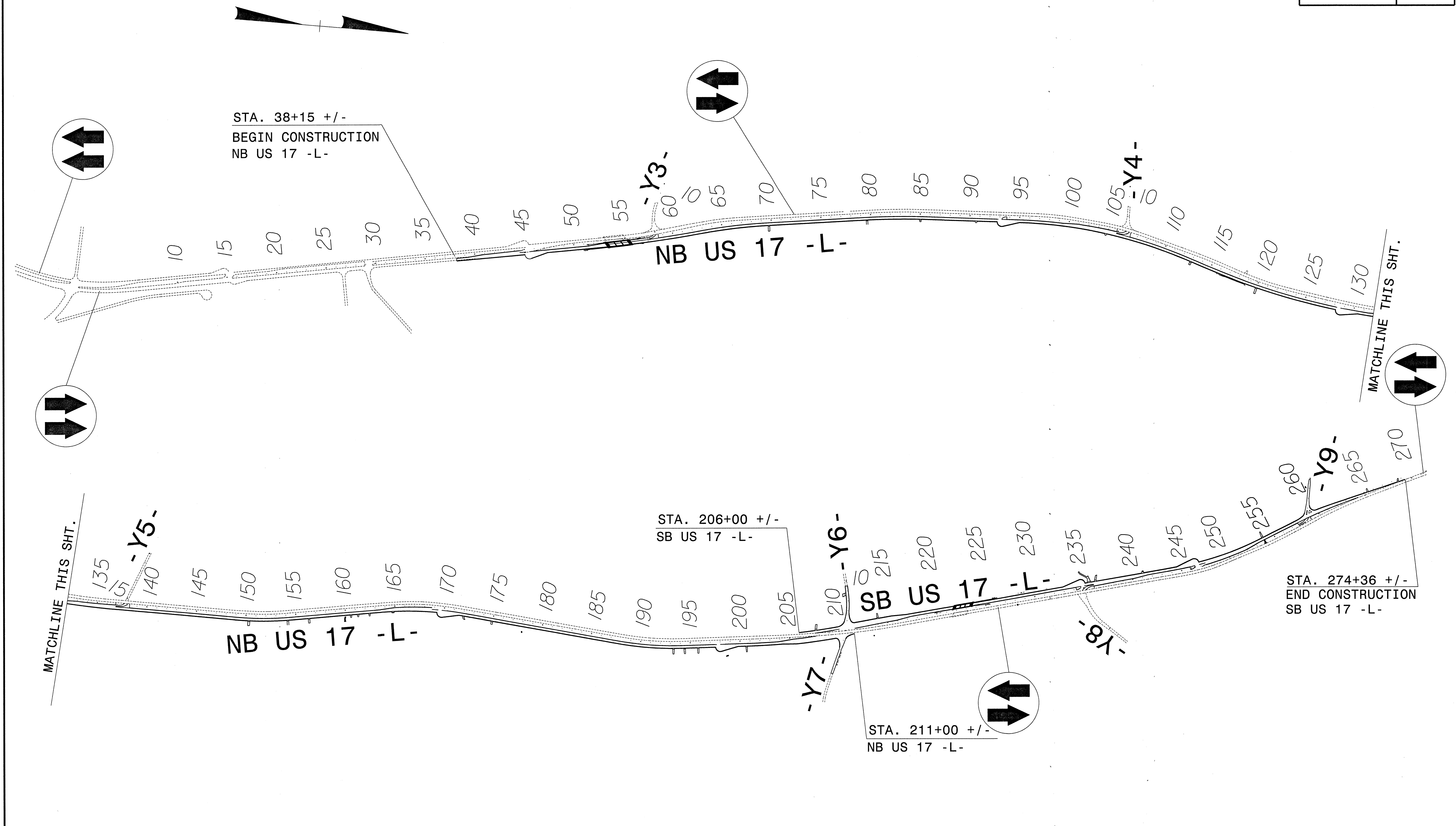
SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 19834
 B. Keith Skinner

OFF SITE DETOUR FOR CLOSURE OF US 17 FOR PIPE INSTALLATION

SCALE: NONE
 DATE: 08/09
 DWG. BY: MAC
 DESIGN BY: MAC
 REVIEWED BY: BKS



REVISIONS



REFER TO SHEETS TCP-1 THRU TCP-4 AND TCP-8 THRU TCP-21

I:\2610_09\09\07
 r:\TrafficControl\TCP\00\Yr2510c+tcp-top07.dgn
 mclamy

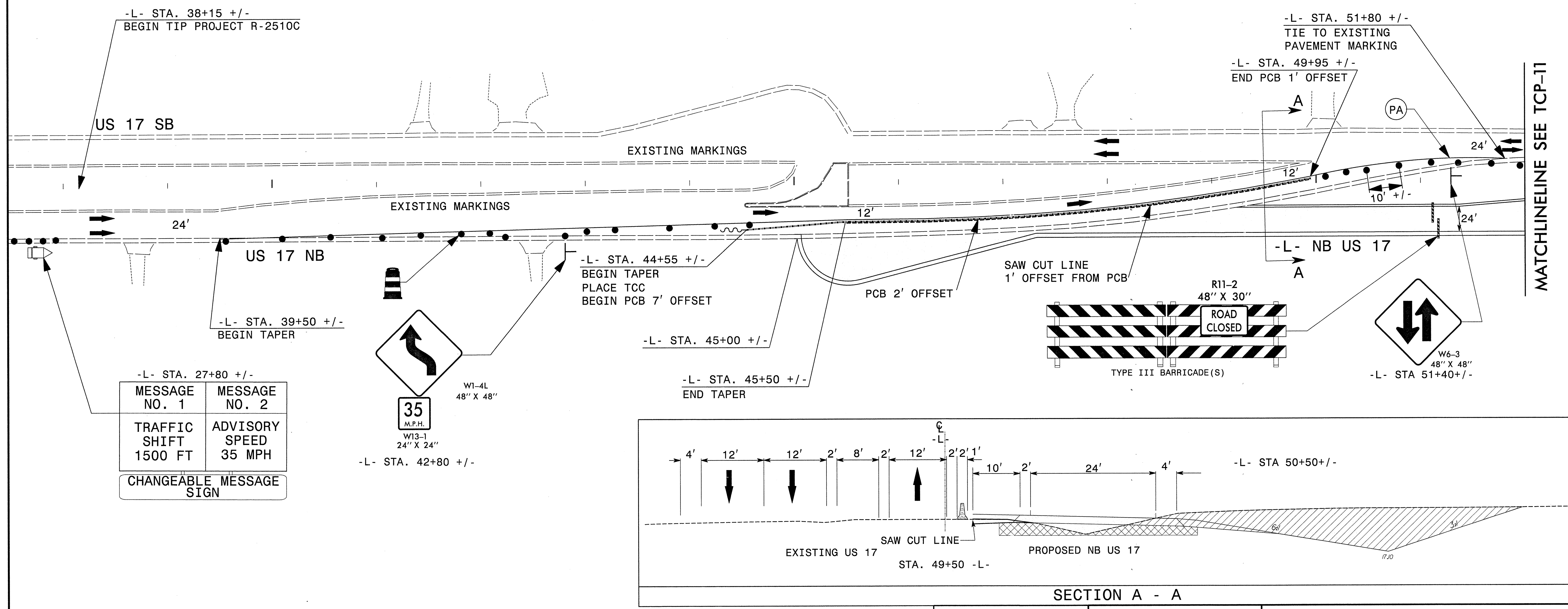
PLANS PREPARED BY : RK K RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 • (919) 878-9560 FOR DIVISION OF HIGHWAYS		SEAL <i>B. Keith Skinner</i>	PHASE I OVERVIEW	
SCALE: NONE	DATE: 08/09		REVISIONS	
DWG. BY: CAS	DESIGN BY: MAC			
REVIEWED BY: BKS				

NAD 83/95

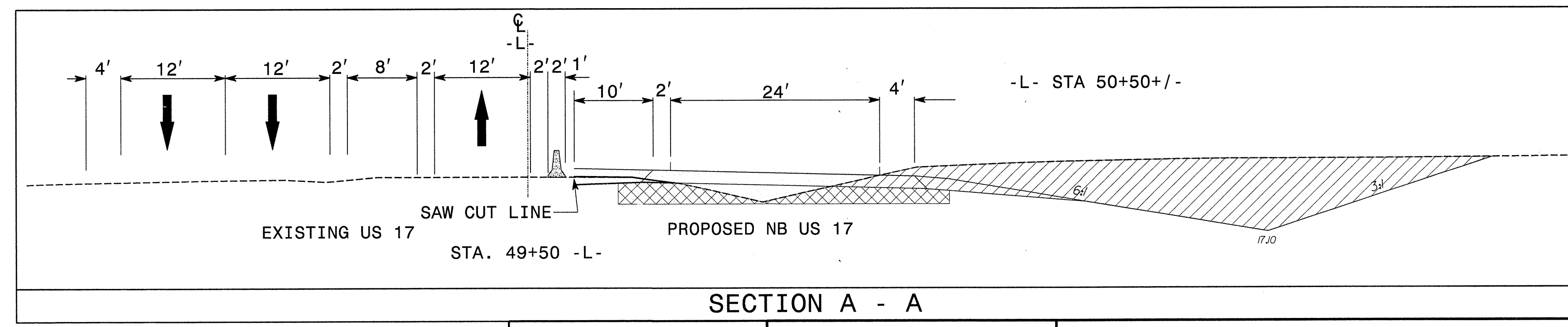
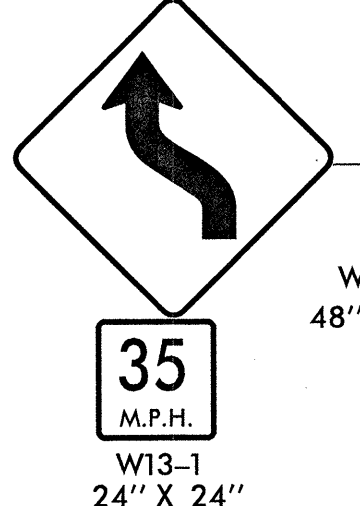
40

45

50



-L- STA. 27+80 +/-	
MESSAGE NO. 1	MESSAGE NO. 2
TRAFFIC SHIFT 1500 FT	ADVISORY SPEED 35 MPH
CHANGEABLE MESSAGE SIGN	



MATCHLINE SEE TCP-11

NOTE: MAINTAIN DRIVEWAYS WITH ABC

NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

PLANS PREPARED BY:
RK K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560
FOR
DIVISION OF HIGHWAYS

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 19834
B. Kert Skinner

PHASE I DETAIL STA. 38+15 -L- TO STA. 52+00 -L-	
SCALE: NONE	REVISIONS
DATE: 08/09	
DWG. BY: CAS	
DESIGN BY: MAC	
REVIEWED BY: BKS	

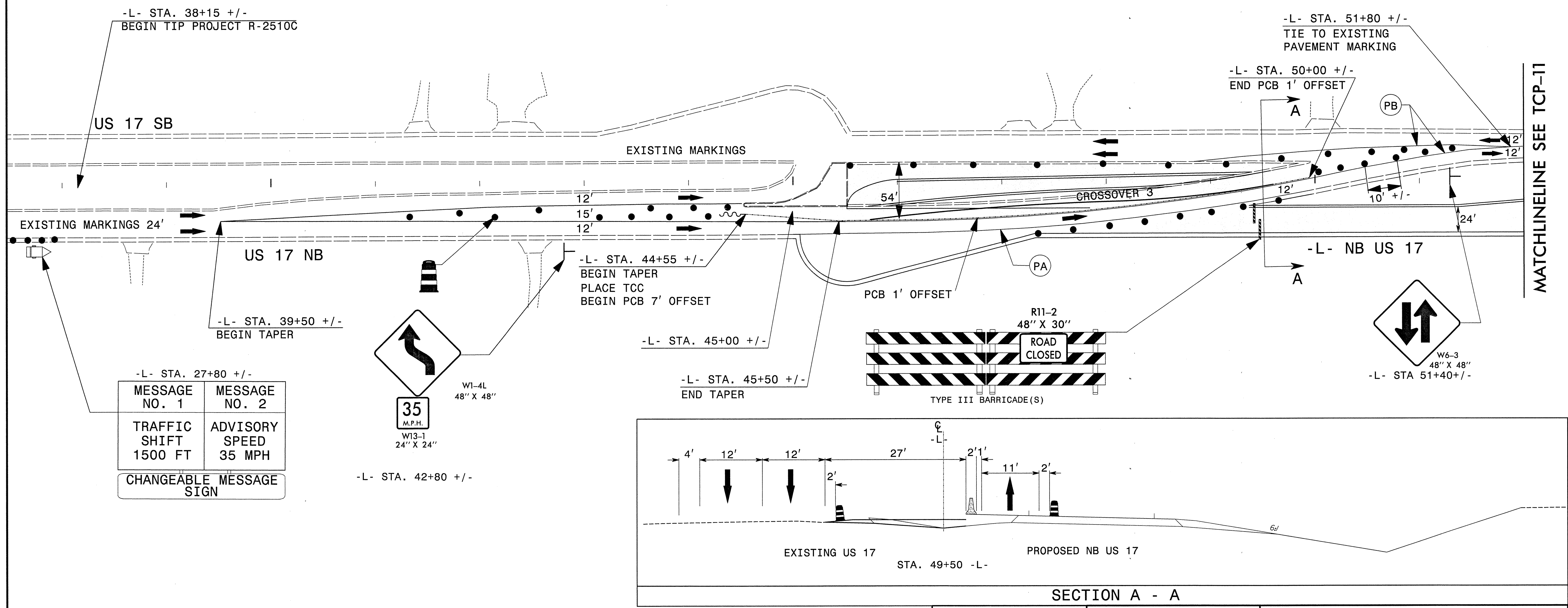
I:\026\10_09\09\25
R:\TrafficControl\TCP\000\Ar2510c_tcp_tcp08.dgn
miamy

NAD 83/95

40

45

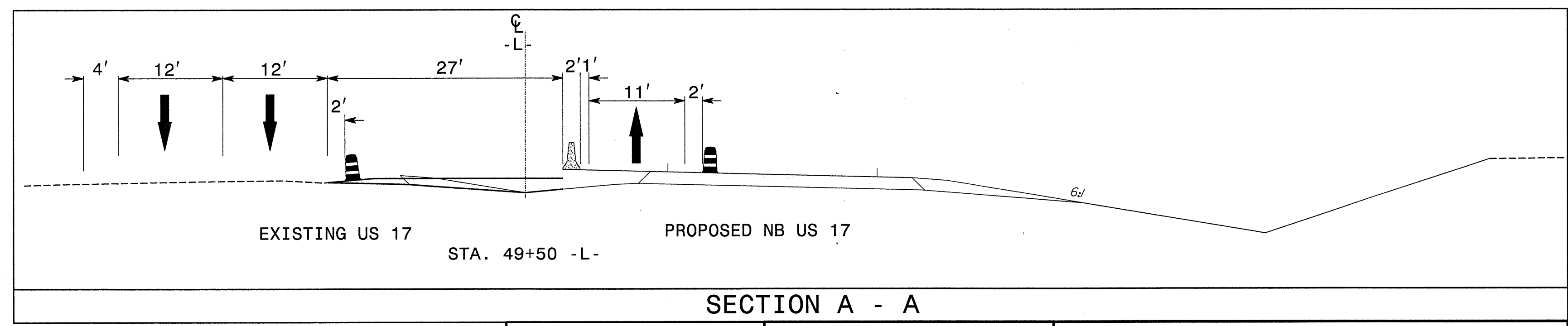
50



MATCHLINE SEE TCP-11

-L- STA. 27+80 +/-	
MESSAGE NO. 1	MESSAGE NO. 2
TRAFFIC SHIFT 1500 FT	ADVISORY SPEED 35 MPH
CHANGEABLE MESSAGE SIGN	

-L- STA. 42+80 +/-



NOTE: MAINTAIN DRIVEWAYS WITH ABC

NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
 CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

PLANS PREPARED BY:
RK K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 19834
 B. Keith Skinner

PHASE I DETAIL STA. 38+15 -L- TO STA. 52+00 -L-	
SCALE: NONE	REVISIONS
DATE: 08/09	
DWG. BY: CAS	
DESIGN BY: MAC	
REVIEWED BY: BKS	

I:\26\10_09\09\34
 r:\TrafficControl\TCP\000\Ar2510c_tcp_09.dgn
 mlamy

NAD 83/95

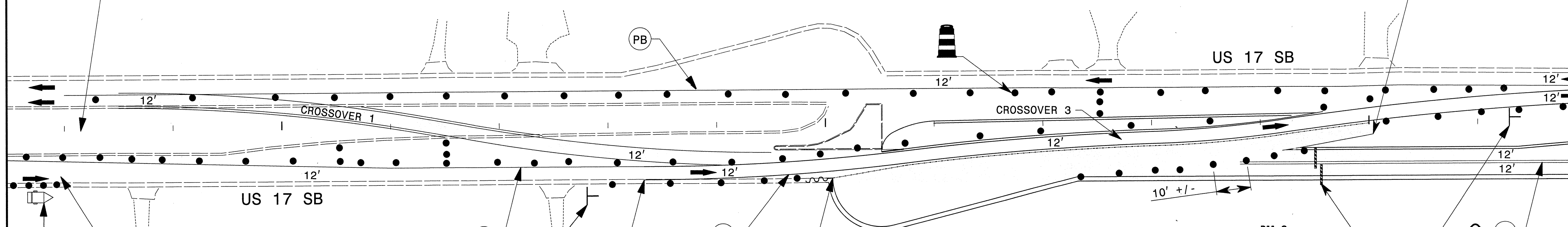
40

45

50

-L- STA. 38+15 +/-
BEGIN TIP PROJECT R-2510C
TIE TO EXISTING
PAVEMENT MARKINGS

-L- STA. 50+00 +/-



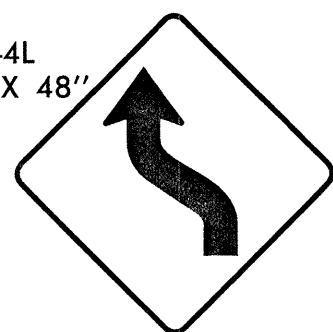
MATCHLINE SEE TCP-11

INSTALL US 17 NB -L-
MEDIAN LANE CLOSURE
USING RSD 1101.02 3 OF 9
PRIOR TO -L- STA. 38+00 +/-

-L- STA. 27+80 +/-

MESSAGE NO. 1	MESSAGE NO. 2
TRAFFIC SHIFT 1500 FT	ADVISORY SPEED 35 MPH
CHANGEABLE MESSAGE SIGN	

W1-4L
48" X 48"

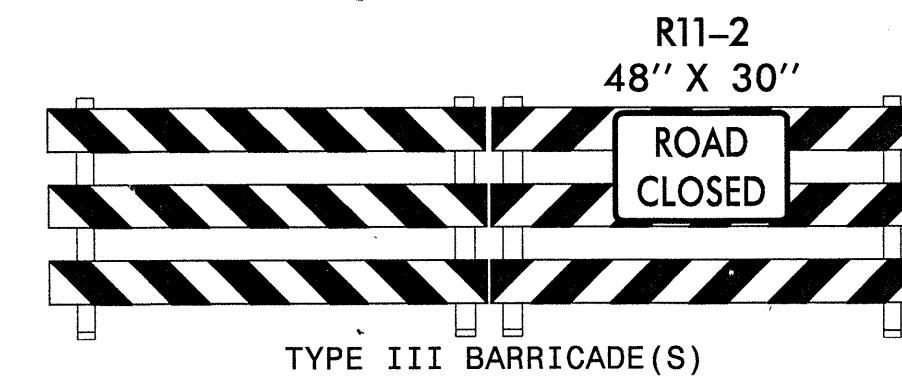


35
M.P.H.

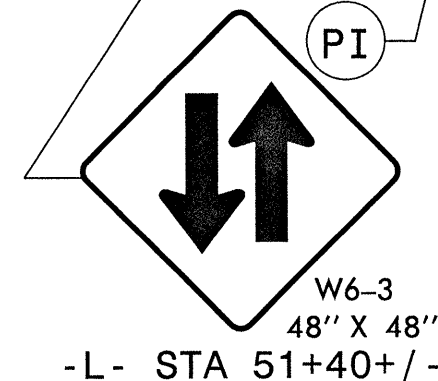
W13-1
24" X 24"
-L- STA. 42+80 +/-

-L- STA. 43+40 +/-
TIE TO EXISTING
PAVEMENT MARKINGS

-L- STA. 45+00 +/-
PLACE TCC
BEGIN PCB 2' OFFSET



R11-2
48" X 30"
TYPE III BARRICADE(S)



W6-3
48" X 48"
-L- STA 51+40 +/-

NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

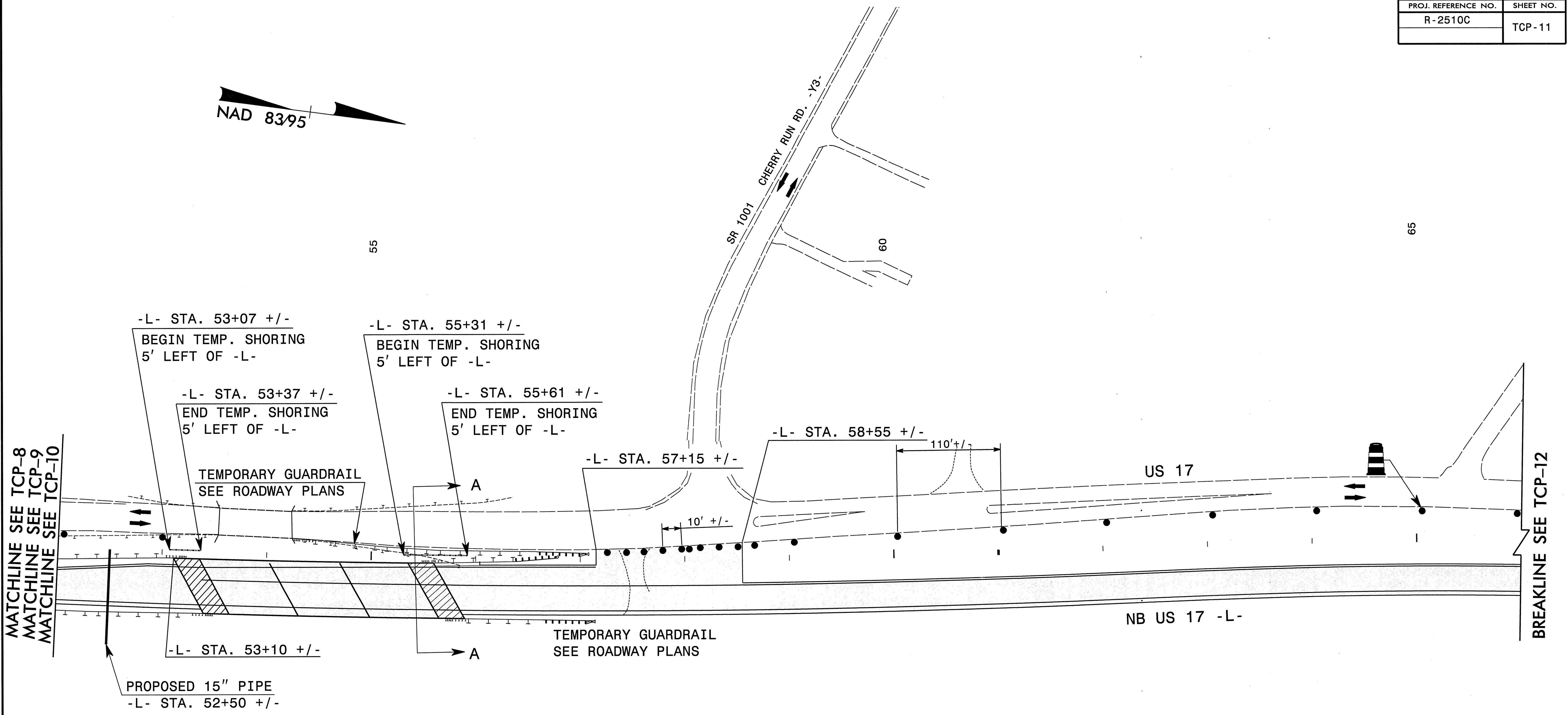
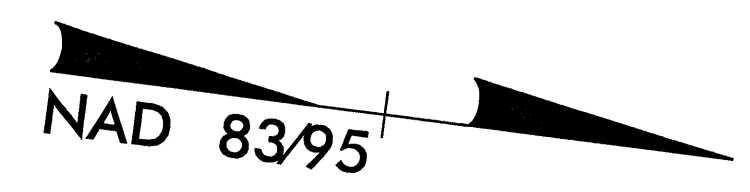
I:\2610_09\09\41
F:\TrafficControl\TCP\002\2510c_tcp_10.dgn
miamy

PLANS PREPARED BY:
RK K
RUMMEI, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560
FOR
DIVISION OF HIGHWAYS

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
B. KEITH SKINNER
10/26/2010

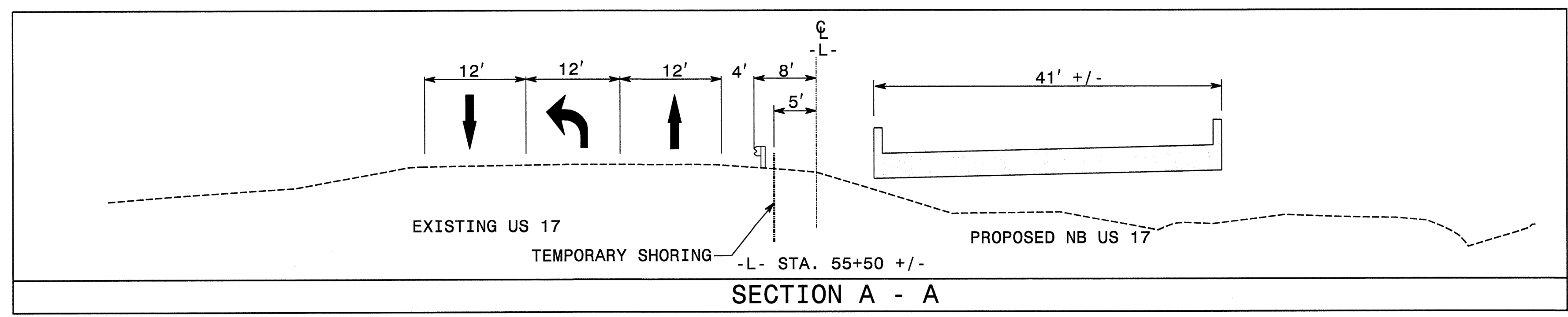
PHASE I DETAIL
STA. 38+15 -L- TO STA. 52+00 -L-
SCALE: NONE
DATE: 08/09
DWG. BY: CAS
DESIGN BY: MAC
REVIEWED BY: BKS

REVISIONS



MATCHLINE SEE TCP-8
 MATCHLINE SEE TCP-9
 MATCHLINE SEE TCP-10

BREAKLINE SEE TCP-12



NOTE: MAINTAIN DRIVEWAYS WITH ABC

NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

I:\NOV10_12:39:41
 RA_TrafficControl\TCP\002\2510c_tcp_tcp11.dgn
 mmm

PLANS PREPARED BY :

RK K

RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560

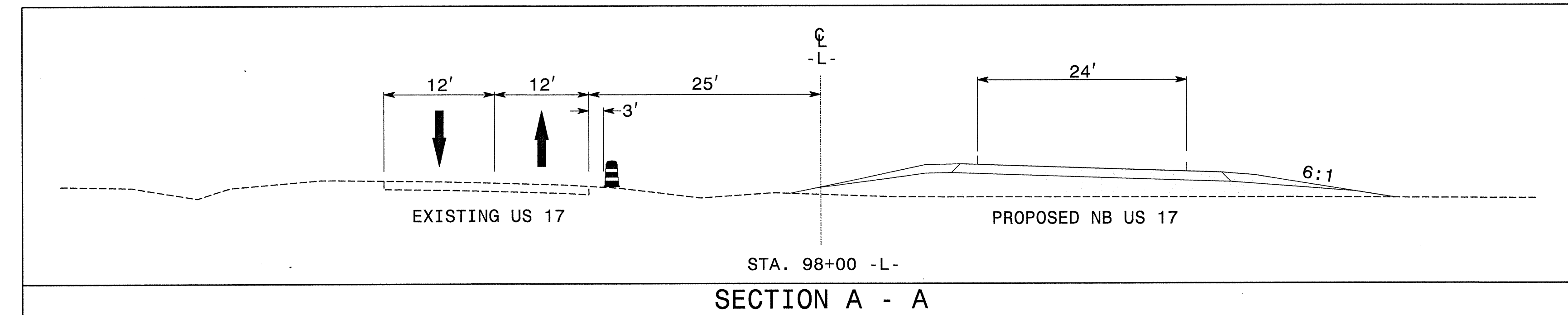
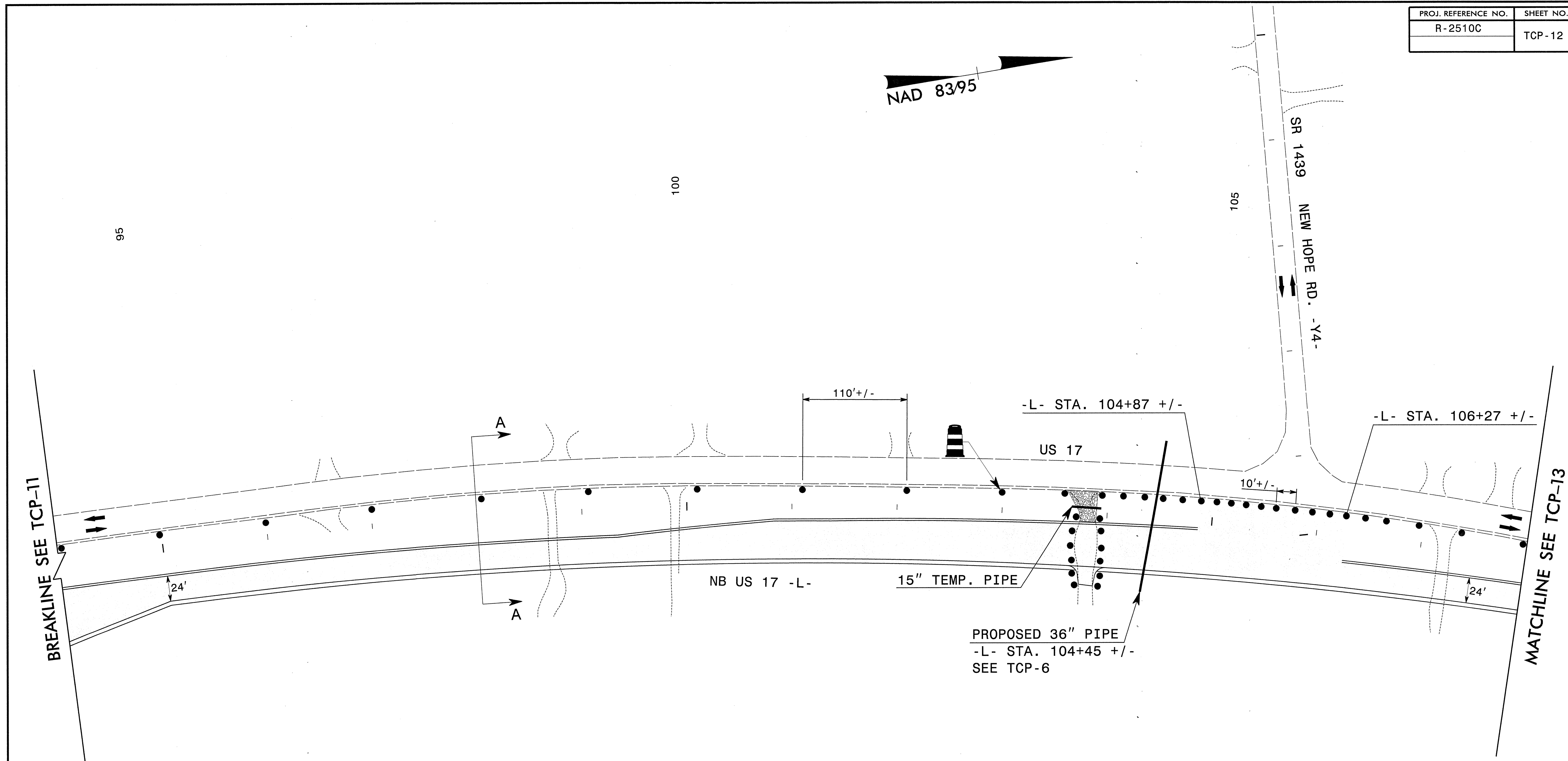
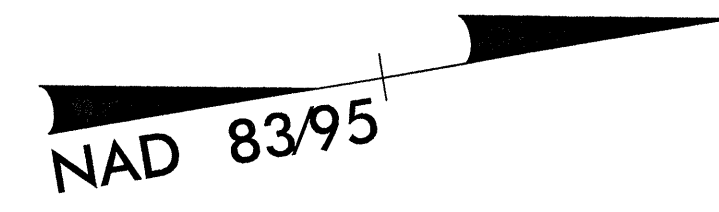
FOR
 DIVISION OF HIGHWAYS

SEAL

NORTH CAROLINA
 PROFESSIONAL
 SEAL
 19834

10/20/09
 B. Keith Skinner

PHASE I DETAIL STA. 52+00 -L- TO STA. 66+00 -L-			REVISIONS <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	DATE: 08/09	DESIGN BY: CAS	REVIEWED BY: BKS								



NOTE: MAINTAIN DRIVEWAYS WITH ABC

NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

I:\26\10_09\09\56
r:\Traffic\TrafficControl\TCP\100\2510c_tcp_12.dgn
mlamy

PLANS PREPARED BY :

RK K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

FOR
DIVISION OF HIGHWAYS

SEAL

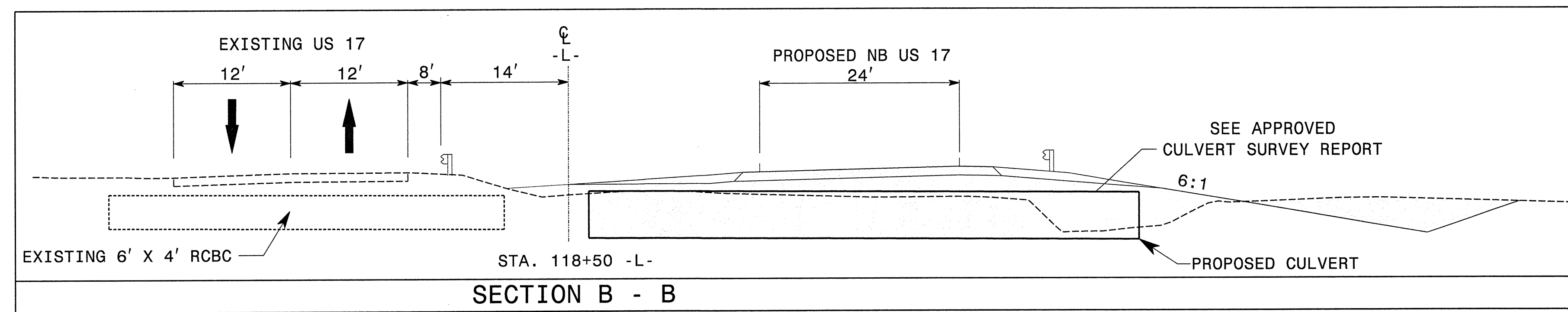
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
19834
B. KEITH SKINNER

B. Keith Skinner

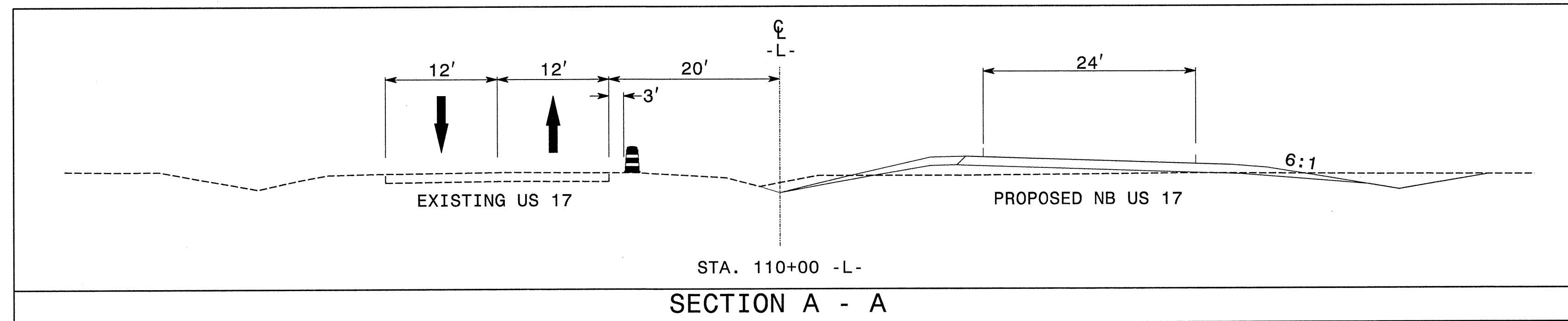
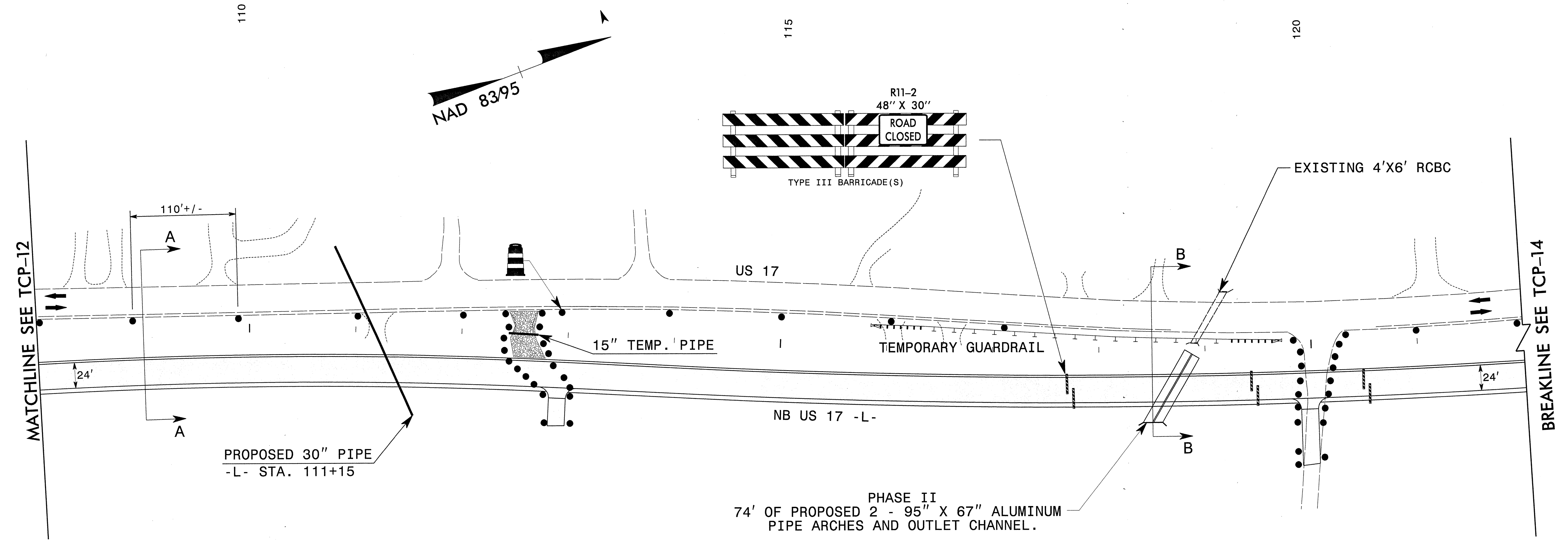
PHASE I DETAIL
STA. 94+00 -L- TO STA. 108+00 -L-

SCALE: NONE		REVISIONS
DATE: 08/09		
DWG. BY: CAS		
DESIGN BY: MAC		
REVIEWED BY: BKS		

CADD FILE



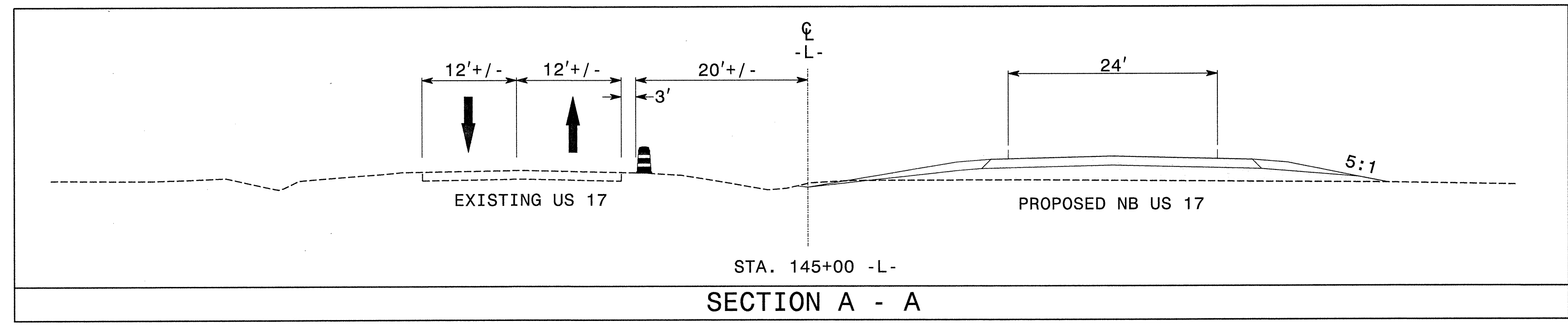
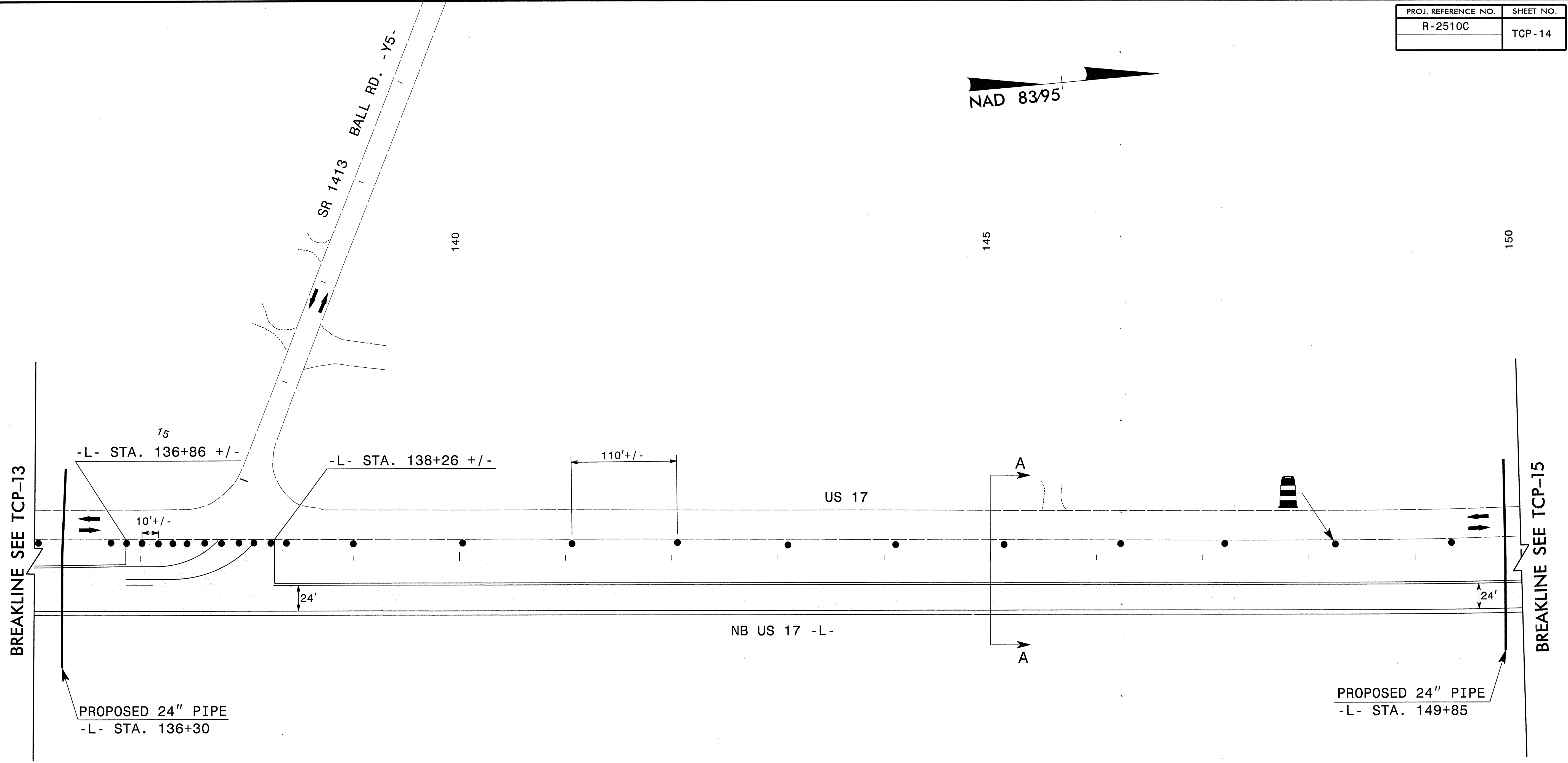
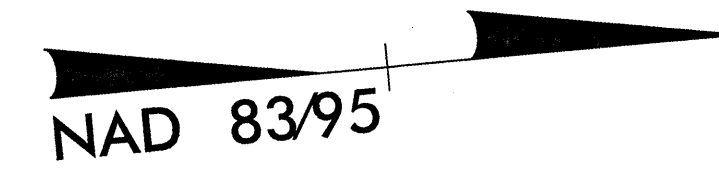
- NOTE:
1. Construct rock silt screen at Sta. 118+28 -L-, 105' RT.
 2. Install first phase 16' 18" BCCS at Sta. 118+88 -L- and impervious dikes (i.e. sand bags) to divert water to 18" BCCS.
 3. Install black bag filtration device at 118+20 -L-, 95' RT, and 74' of proposed 2 - 95" X 67" Aluminum Pipe Arches and outlet channel.
 4. Install outlet channel and riprap at outlet as shown on the Culvert Survey Report plan and typical section.



- NOTE: MAINTAIN DRIVEWAYS WITH ABC
- NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

I:\2610_09\04\04
 R:\TrafficControl\TCP\000\Ar2510c_tcp_13.dgn
 mlamy

PLANS PREPARED BY: RK K RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 • (919) 878-9560 FOR DIVISION OF HIGHWAYS	SEAL <i>B. Keith Skinner</i>	PHASE I DETAIL STA. 108+00 -L- TO STA. 122+00 -L-							
		SCALE: NONE DATE: 08/09 DWG. BY: CAS DESIGN BY: MAC REVIEWED BY: BKS	REVISIONS <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>						



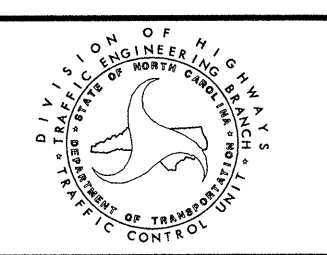
NOTE: MAINTAIN DRIVEWAYS WITH ABC
 NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
 CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

I:\26\10_09\040
 r:\TrafficControl\Tcp\100\2510c_tcp_14.dgn
 mlamy

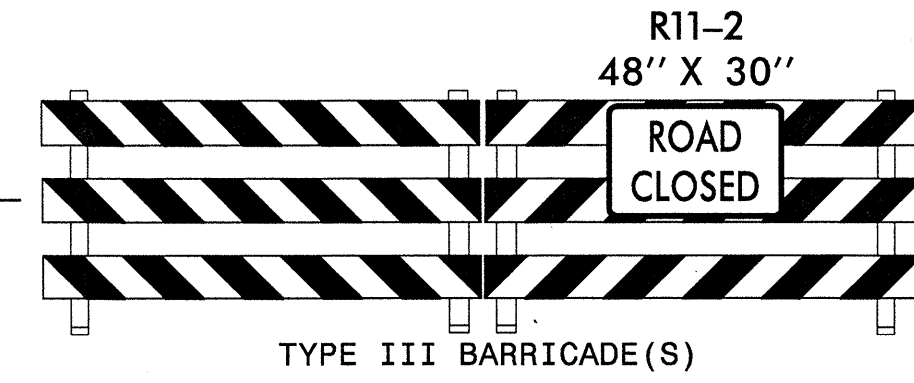
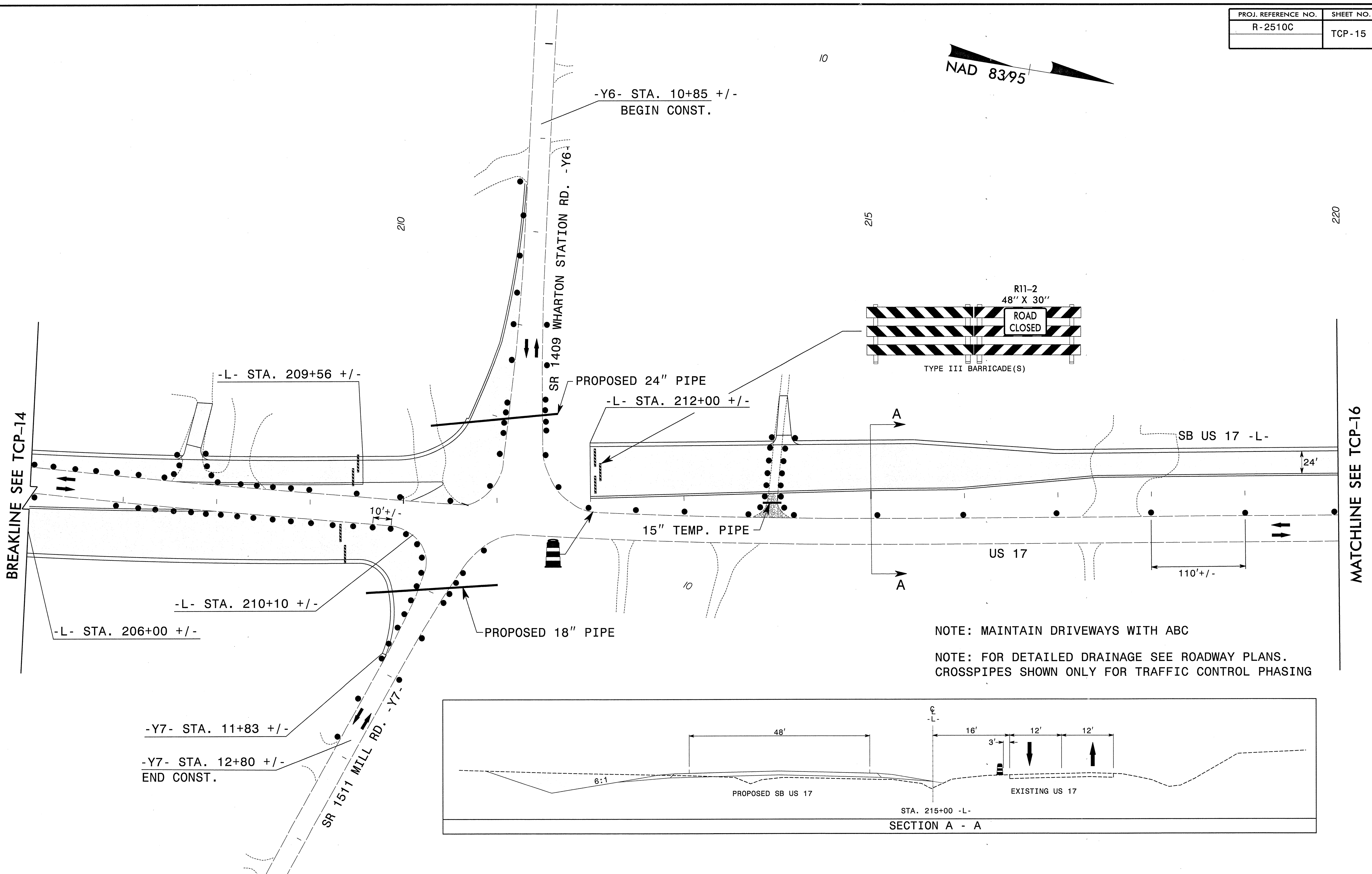
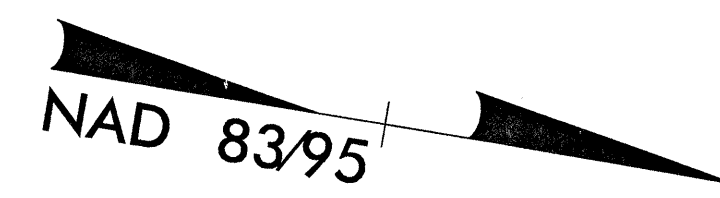
PLANS PREPARED BY:
RK K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 19834
 B. Keith Skinner

PHASE I DETAIL STA. 136+00 -L- TO STA. 150+00 -L-	
SCALE: NONE	REVISIONS
DATE: 08/09	
DWG. BY: CAS	
DESIGN BY: MAC	
REVIEWED BY: BKS	

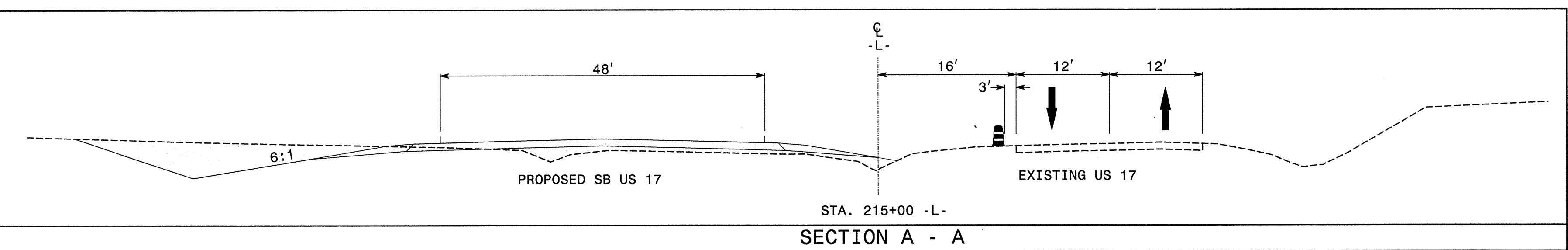


CADD FILE



NOTE: MAINTAIN DRIVEWAYS WITH ABC

NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING



10.26\10_09\048
 P:\TrafficControl\TCP\1007\2510c_tcp_tcp15.dgn
 miamy

PLANS PREPARED BY :

RK K

RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560

FOR
 DIVISION OF HIGHWAYS

SEAL

NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 19834
 B. Keith Skinner

PHASE I DETAIL
 STA. 206+00 -L- TO STA. 220+00 -L-

SCALE: NONE		REVISIONS
DATE: 08/09		
DWG. BY: CAS		
DESIGN BY: MAC		
REVIEWED BY: BKS		

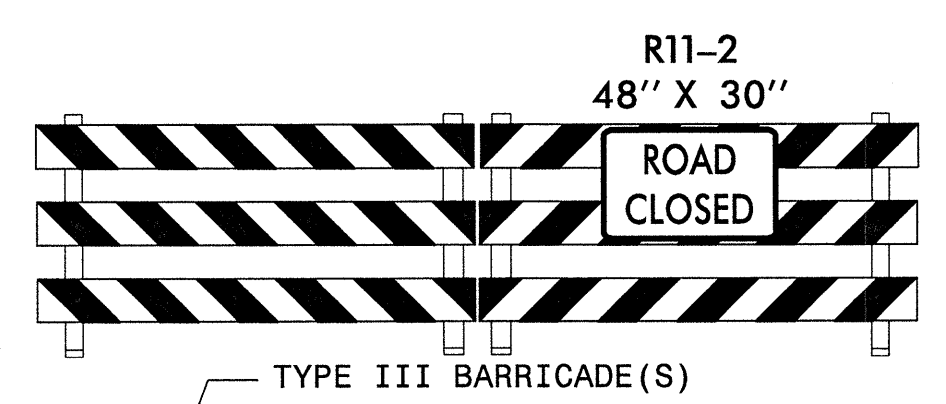
CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2510C	TCP-16

NAD 83/95

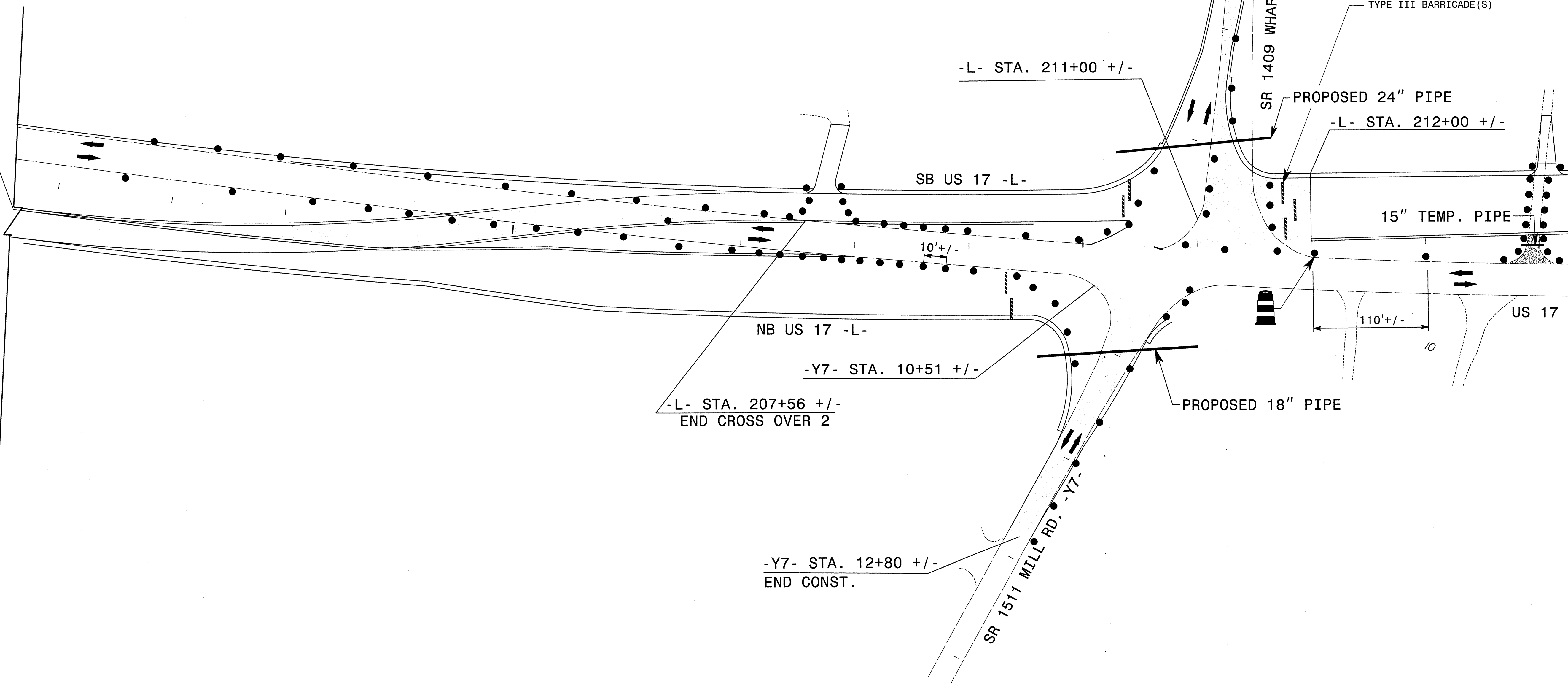
-L- STA. 200+63 +/-
BEGIN CROSS OVER 2

-Y6- STA. 10+85 +/-
BEGIN CONST.



-L- STA. 211+00 +/-

SR 1409 WHARTON STATION RD. -Y6-
PROPOSED 24" PIPE
-L- STA. 212+00 +/-



-L- STA. 207+56 +/-
END CROSS OVER 2

-Y7- STA. 10+51 +/-

-Y7- STA. 12+80 +/-
END CONST.

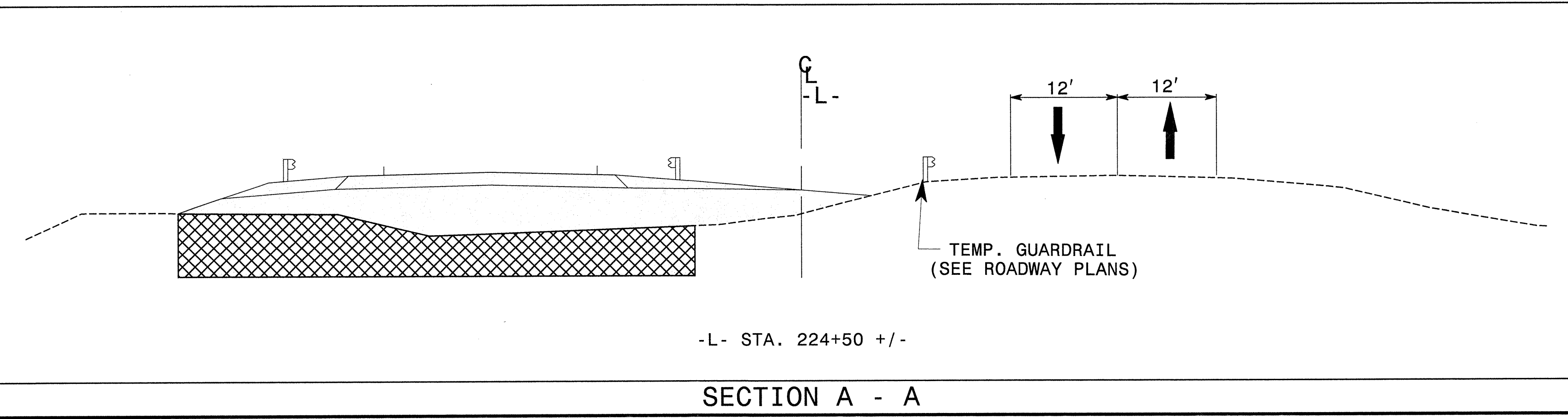
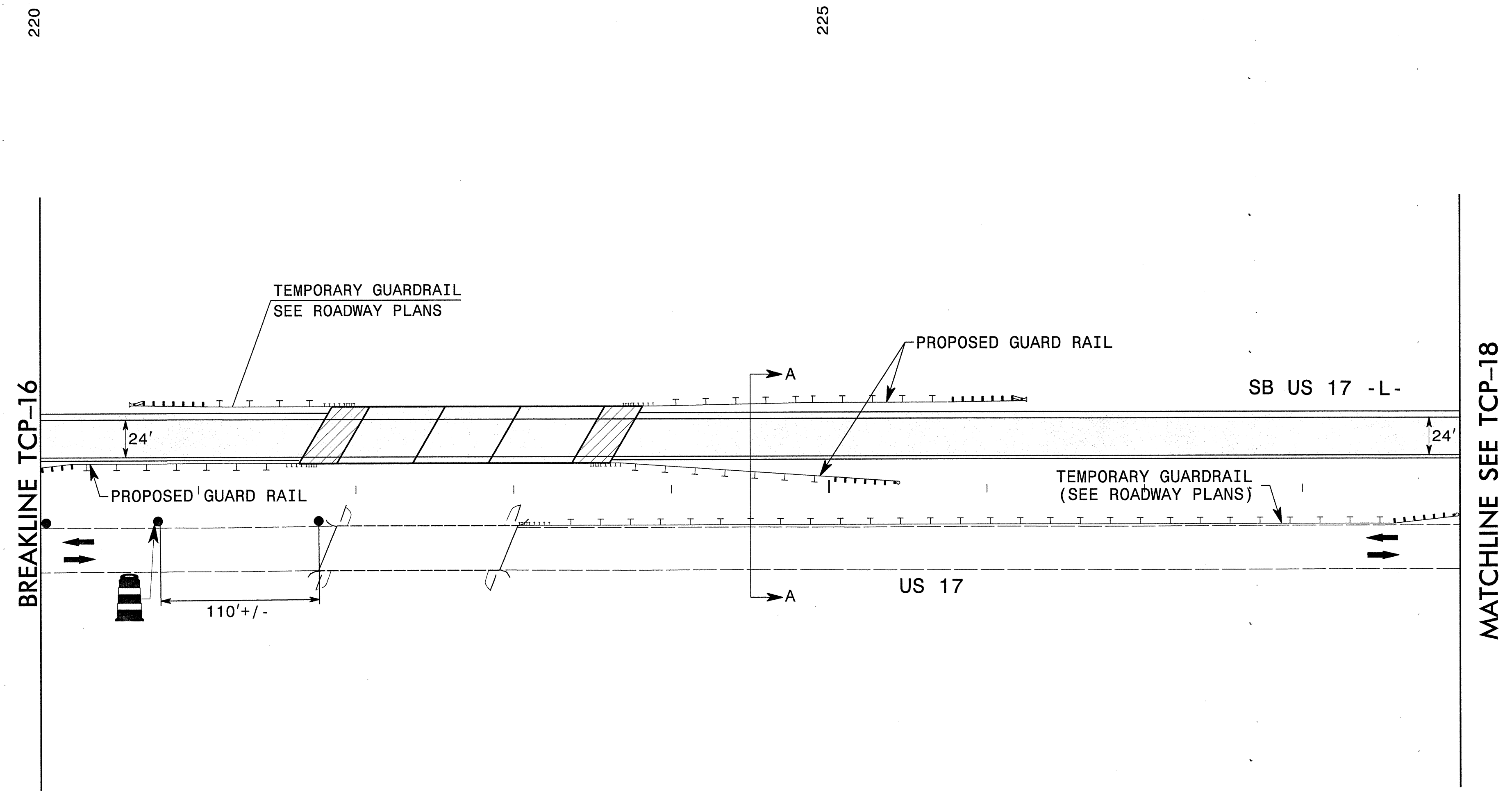
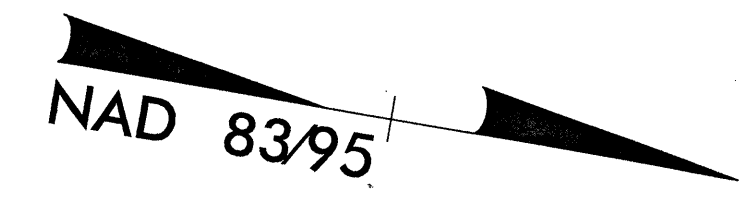
10\26\10_09\0225
 RA\Trat\fic\1\of\ficControl\TCP\1002\12510c_tcp_16\16.dgn
 mlamy

PLANS PREPARED BY:
RK K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 19834
 ENGINEER
 B. KEITH SKINNER

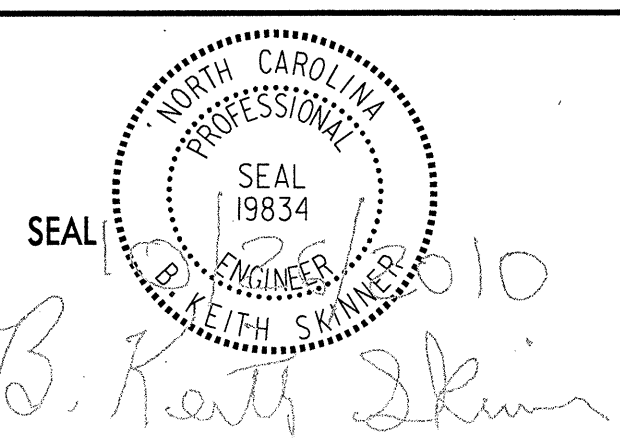
PHASE I DETAIL
 STA. 200+00 -L- TO STA. 215+00 -L-

SCALE:	NONE		<table border="1"> <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											
DATE:	08/09										
DWG. BY:	CAS										
DESIGN BY:	MAC										
REVIEWED BY:	BKS	CADD FILE									



NOTE: MAINTAIN DRIVEWAYS WITH ABC
 NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
 CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

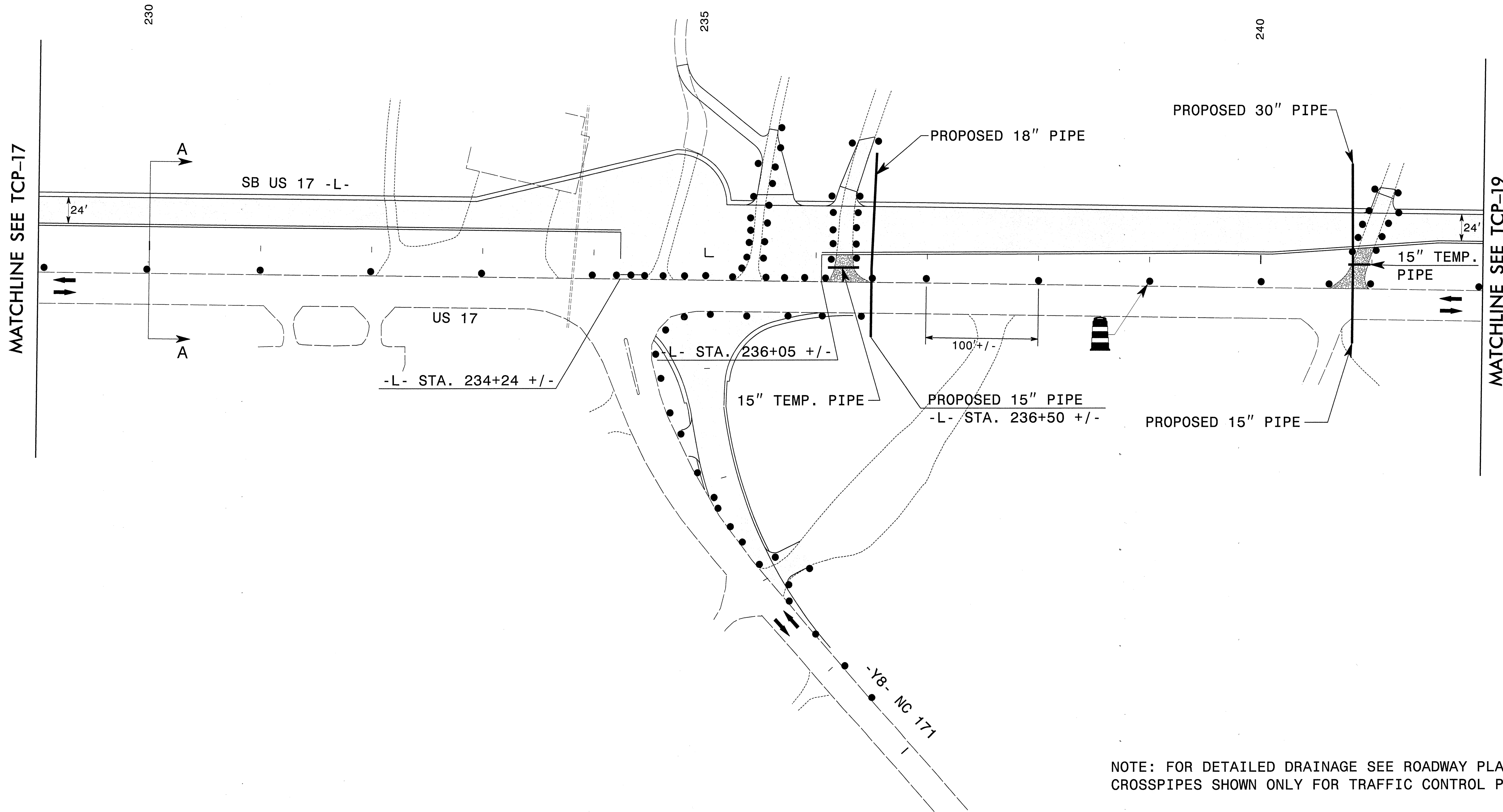
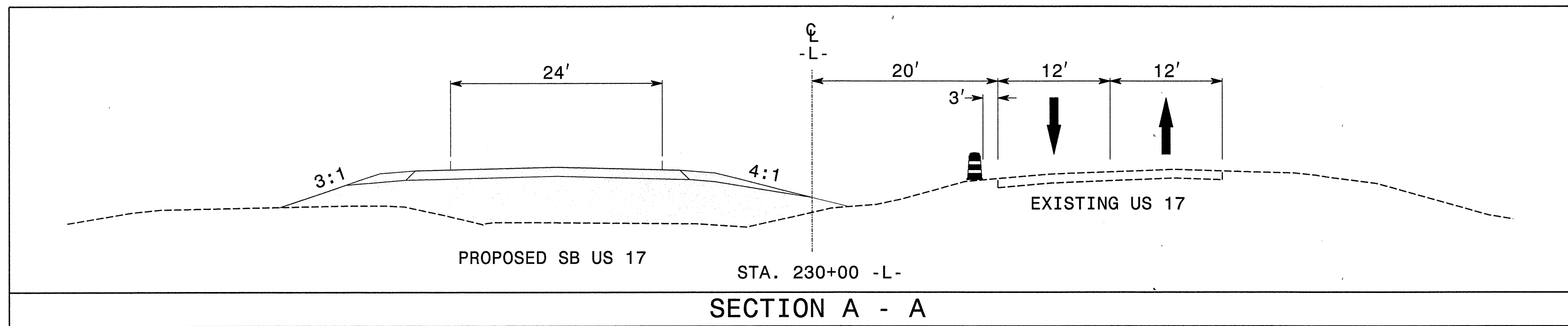
PLANS PREPARED BY :
RK K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0712 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS



PHASE I DETAIL STA. 220+00 -L- TO STA. 229+00 -L-	
SCALE: NONE	REVISIONS
DATE: 08/09	
DWG. BY: CAS	
DESIGN BY: MAC	
REVIEWED BY: BKS	

10:26:10 09/04/09
 R:\Traffic\TrafficControl\TCP\1000\2510c_tcp_tcp17.dgn
 mlamy

PROJ. REFERENCE NO.	SHEET NO.
R-2510C	TCP-18



NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

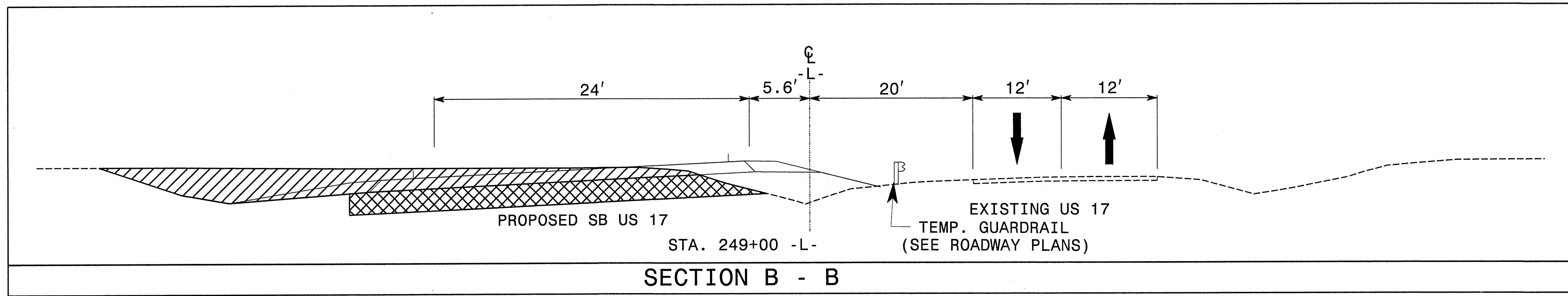
10.26\10_09\0439
 P:\Traffic\TrafficControl\TCP\1002\vr2510c_tcp_tcp18.dgn
 miamy

PLANS PREPARED BY :
RK K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 19834
 ENGINEER
 B. KEITH SKINNER

PHASE I DETAIL
 STA. 229+00 -L- TO STA. 242+00 -L-

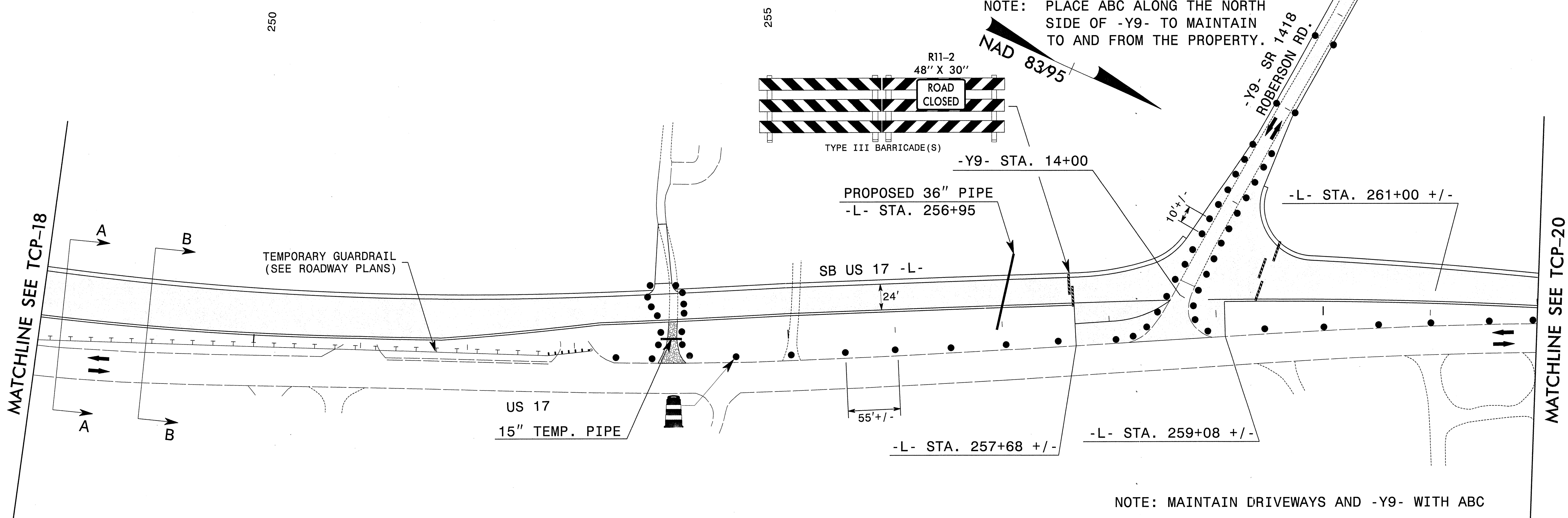
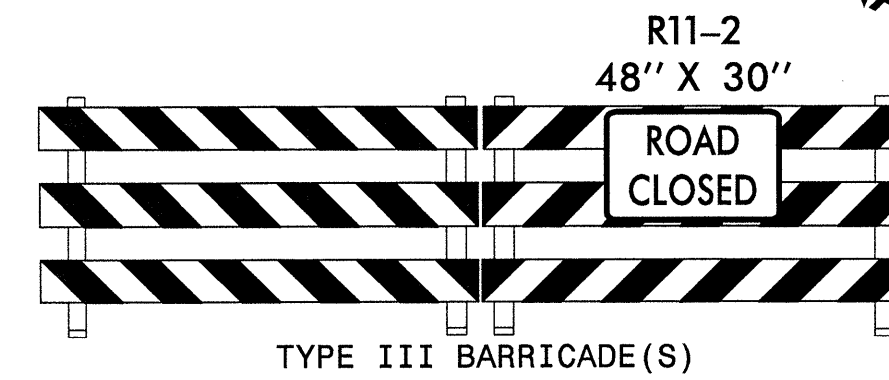
SCALE: NONE		REVISIONS
DATE: 08/09		
DWG. BY: CAS		
DESIGN BY: MAC		
REVIEWED BY: BKS		



-Y9- STA. 10+10 +/-
BEGIN CONSTRUCTION

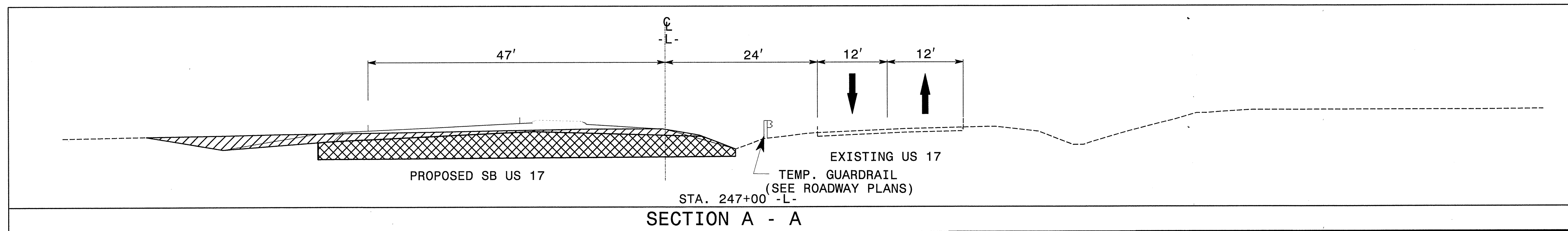
PROPOSED
8'-7" X 5'-11"
ALUMINUM
PIPE ARCH

NOTE: PLACE ABC ALONG THE NORTH
SIDE OF -Y9- TO MAINTAIN
TO AND FROM THE PROPERTY.



NOTE: MAINTAIN DRIVEWAYS AND -Y9- WITH ABC

NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING



10\26\10_09\047
r:\tr\offic\TraficControl\TCP\1002\2510c_tcp_tcp19.dgn
mamy

PLANS PREPARED BY :

RK K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

FOR
DIVISION OF HIGHWAYS

SEAL

NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
19834
B. KEITH SKINNER

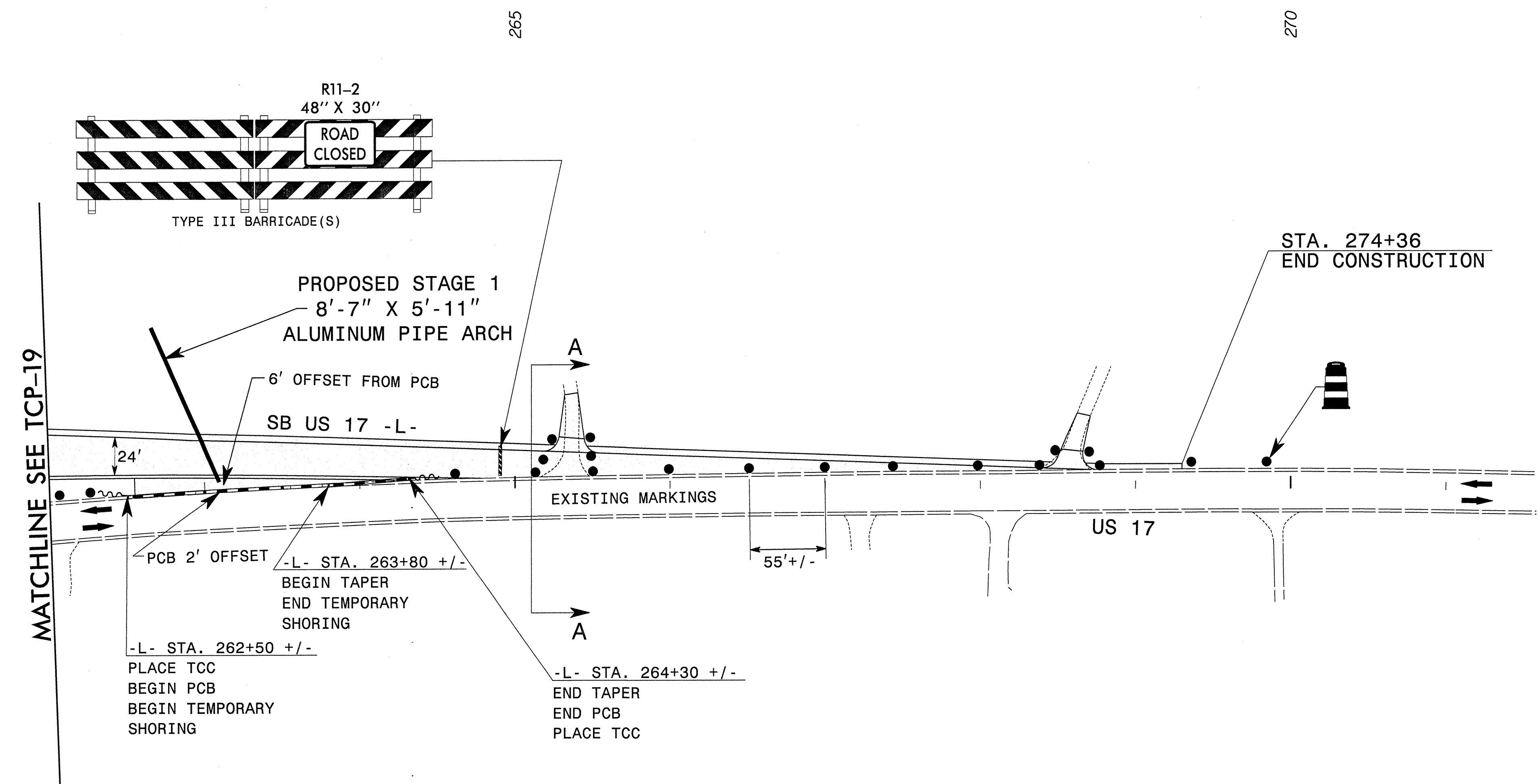
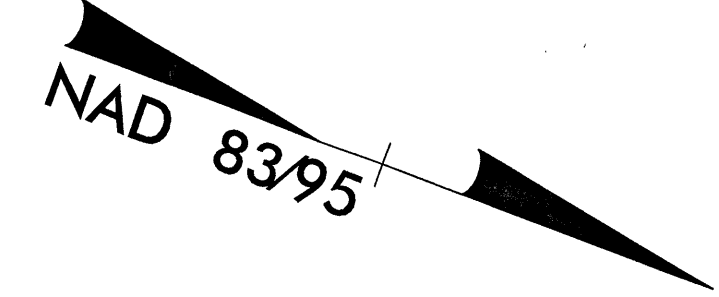
B. Keith Skinner

PHASE I DETAIL
STA. 248+00 -L- TO STA. 262+00 -L-

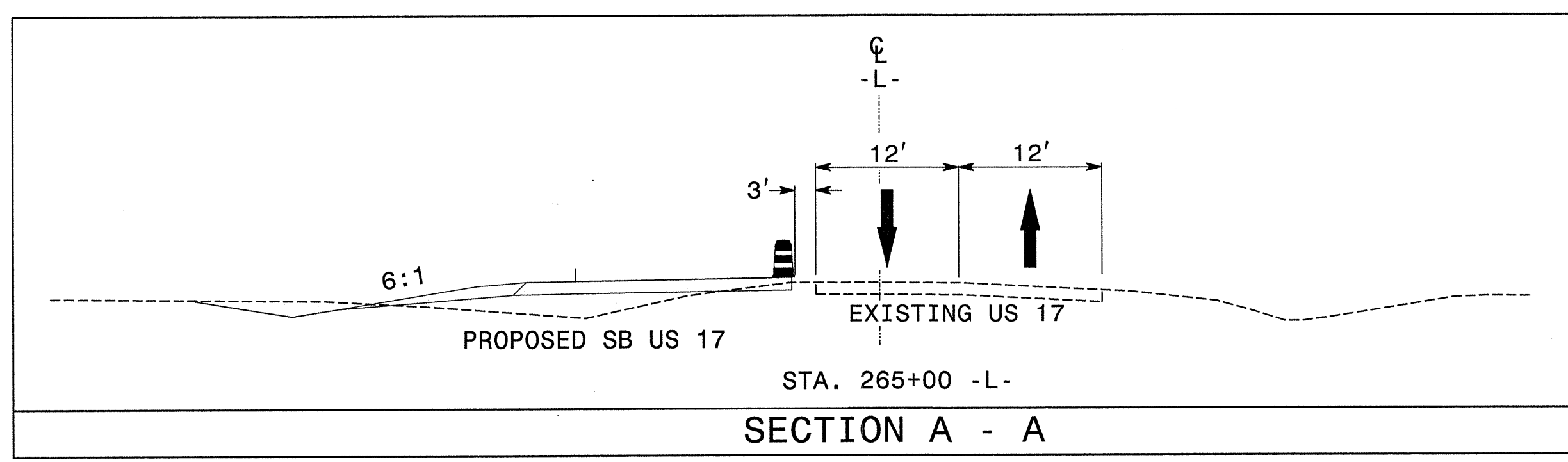
SCALE:	NONE
DATE:	08/09
DWG. BY:	CAS
DESIGN BY:	MAC
REVIEWED BY:	BKS

REVISIONS	

CADD
FILE



MATCHLINE SEE TCP-19



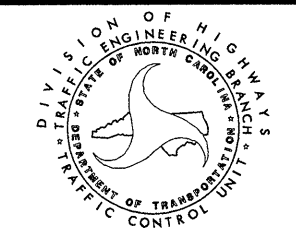
NOTE: MAINTAIN DRIVEWAYS WITH ABC
 NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
 CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

I:\26\NO_09\04\55
 r:\Traffic\TrafficControl\TCP\00\vr2510c_tcp_top20.dgn
 mlamy

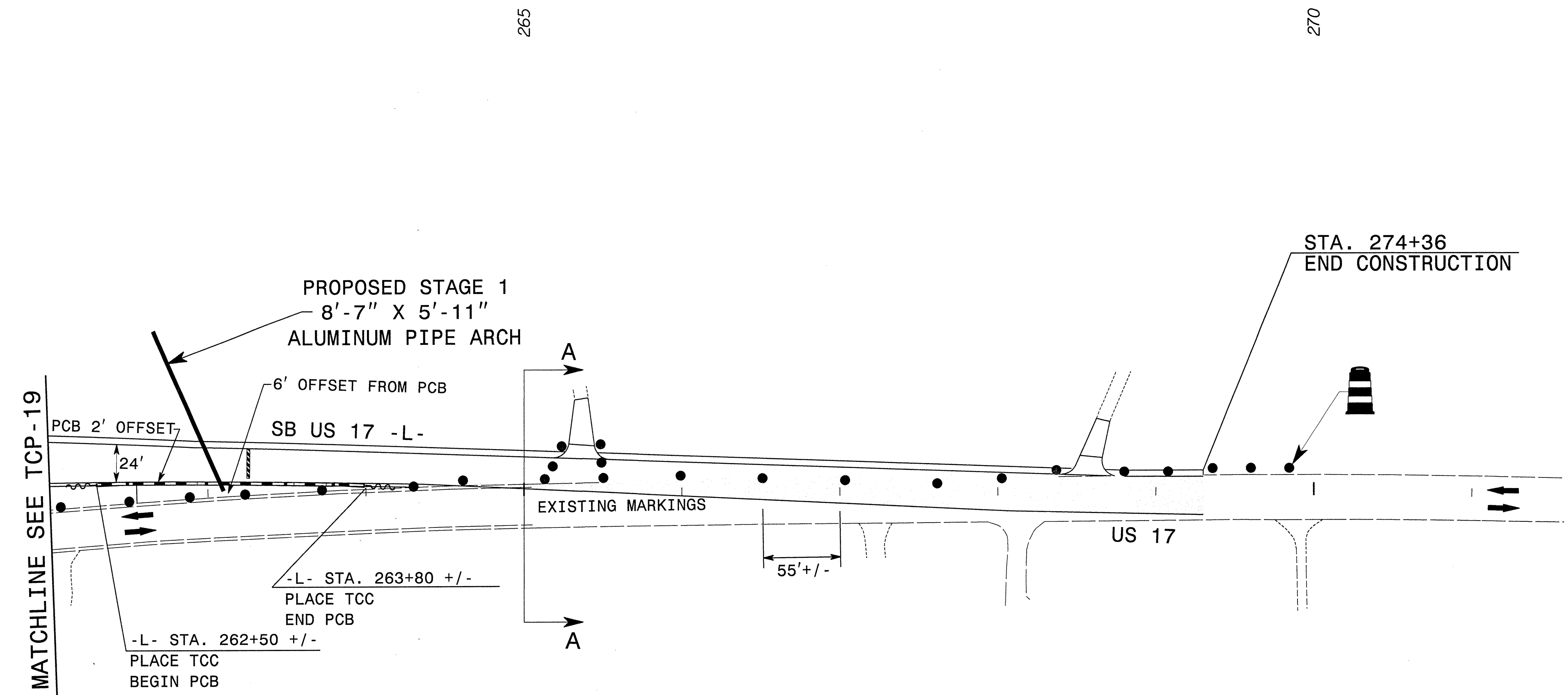
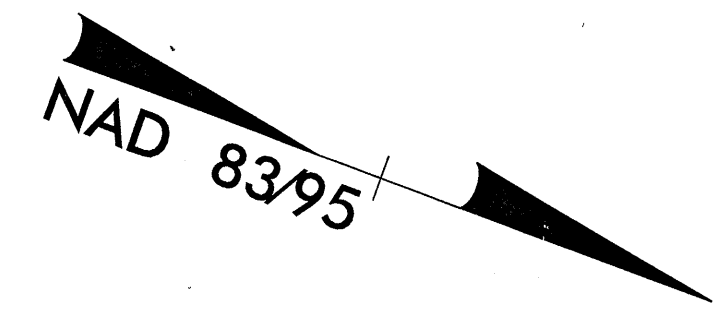
PLANS PREPARED BY :
RK K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 19834
 B. KEITH SKINNER
 B. Keith Skinner

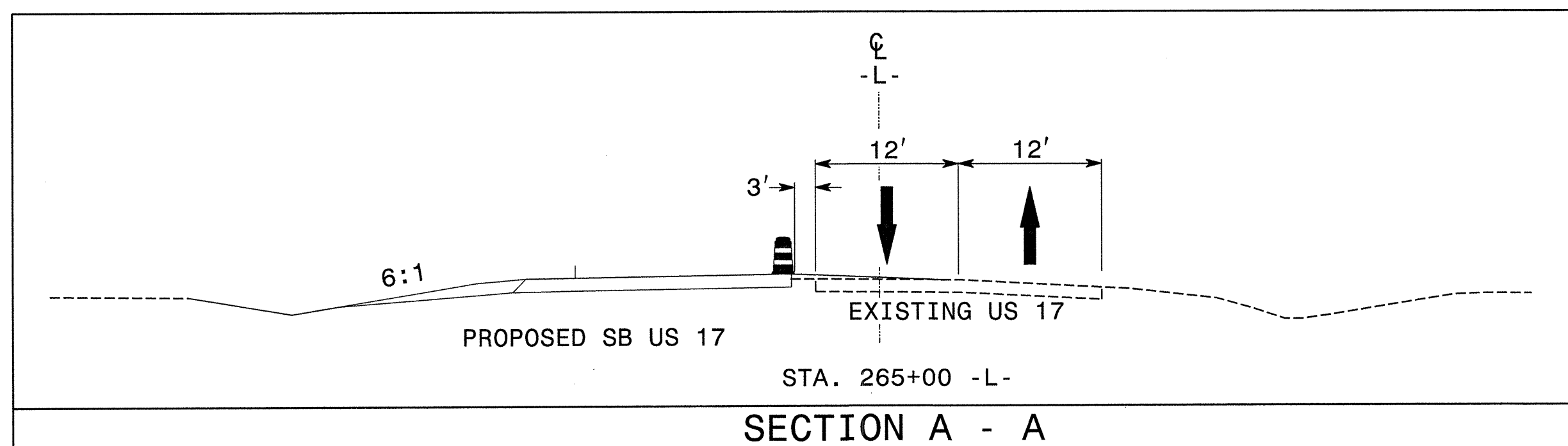
PHASE I DETAIL STA. 262+00 -L- TO STA. 274+36 -L-	
SCALE: NONE	REVISIONS
DATE: 08/09	
DWG. BY: CAS	
DESIGN BY: MAC	
REVIEWED BY: BKS	



CADD
FILE



MATCHLINE SEE TCP-19

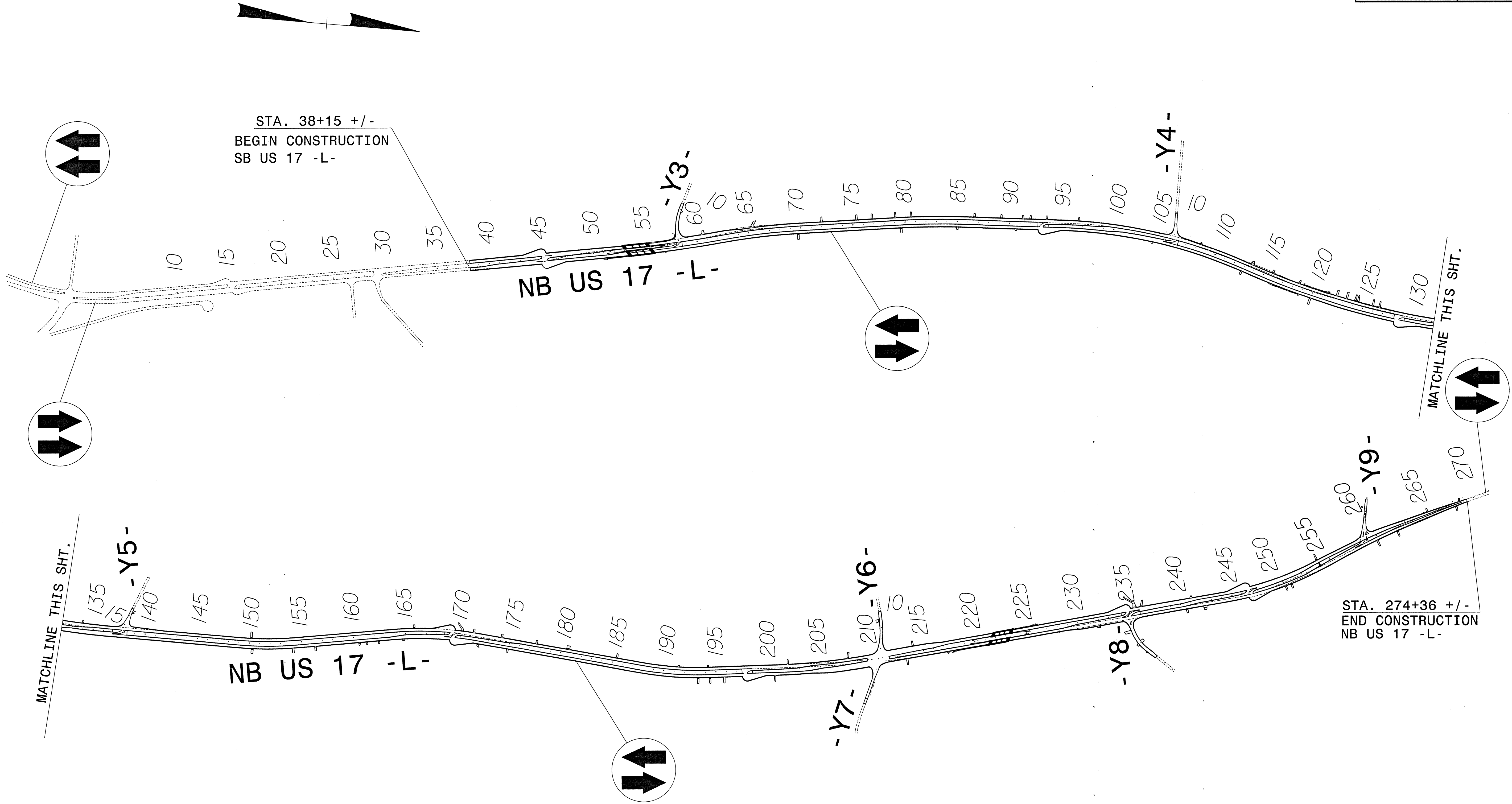


NOTE: MAINTAIN DRIVEWAYS WITH ABC
 NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
 CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

PLANS PREPARED BY:
RK K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 19834
 B. Keith Skinner

PHASE I DETAIL STA. 262+00 -L- TO STA. 274+36 -L-	
SCALE: NONE	REVISIONS
DATE: 08/09	
DESIGN BY: CAS	
REVIEWED BY: BKS	



REFER TO SHEETS TCP-1 THRU TCP-5 AND TCP-23 THRU TCP-32

PLANS PREPARED BY:
RK K
 RUMMEL KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 19834
 B. Keith Skinner

PHASE II OVERVIEW			REVISIONS	
SCALE:	NONE			
DATE:	08/09			
DWG. BY:	CAS			
DESIGN BY:	MAC			
REVIEWED BY:	BKS			

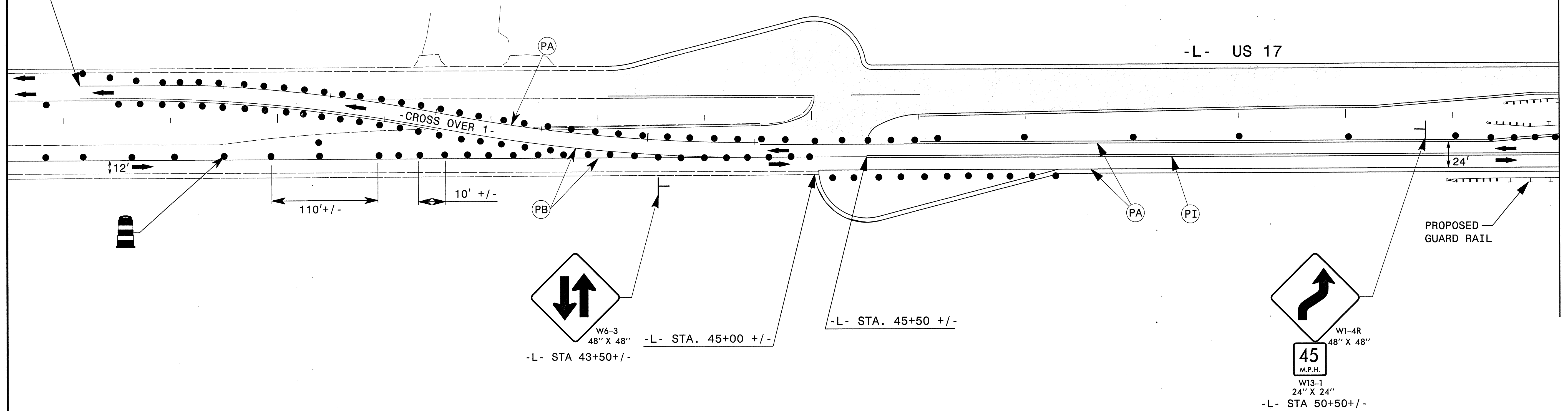
NAD 83/95

40

45

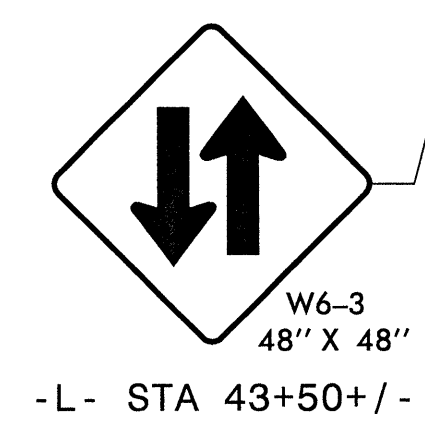
50

-L- STA. 38+15 +/-
BEGIN TIP PROJECT R-2510C



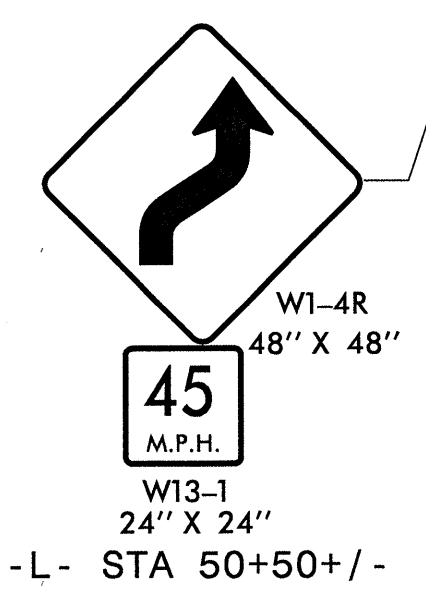
MATCHLINE SEE TCP-24

I:\26\10_09\1144
F:\T\of\io\T\of\io\Con\TCP\002\2510c_tcp_tcp23.dgn
m\omy



-L- STA. 45+00 +/-

-L- STA. 45+50 +/-



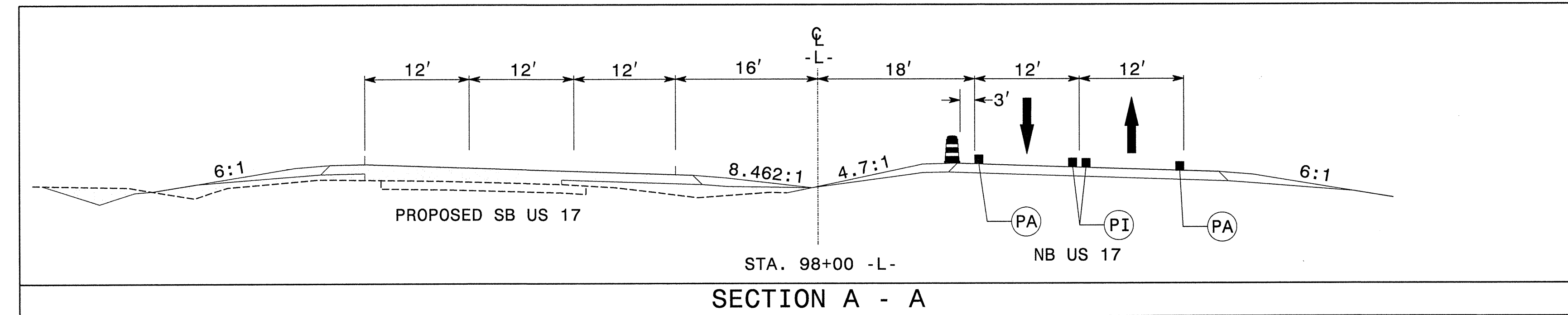
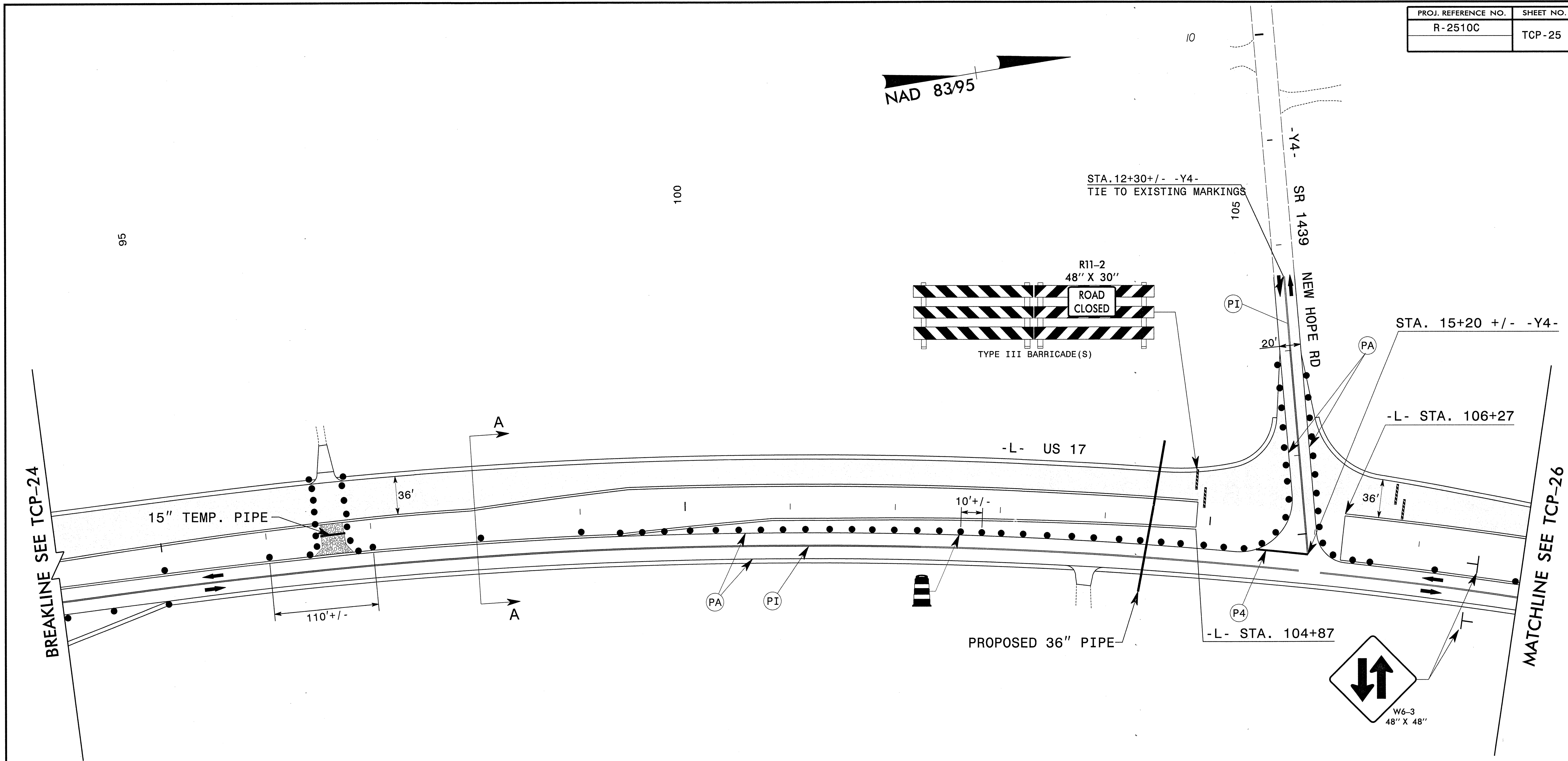
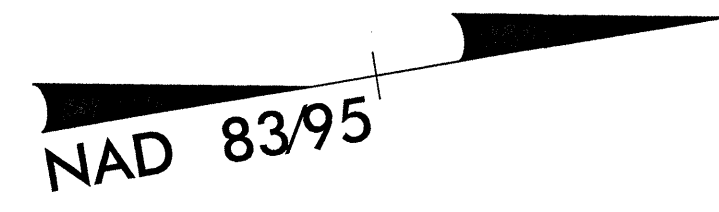
-L- STA 50+50 +/-

PLANS PREPARED BY :
RK K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560
FOR
DIVISION OF HIGHWAYS

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
19834
B. KEITH SKINNER

PHASE II DETAIL
STA. 38+15 -L- TO STA. 52+00 -L-

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: 08/09										
DWG. BY: CAS										
DESIGN BY: MAC										
REVIEWED BY: BKS	CADD FILE									



NOTE: MAINTAIN DRIVEWAYS WITH ABC

NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

I:\026\10_09\42\05
 R:\TrafficControl\TCP\100\VR2510c_tcp_tcp25.dgn
 mlamy

PLANS PREPARED BY :

RK K

RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560

FOR
 DIVISION OF HIGHWAYS

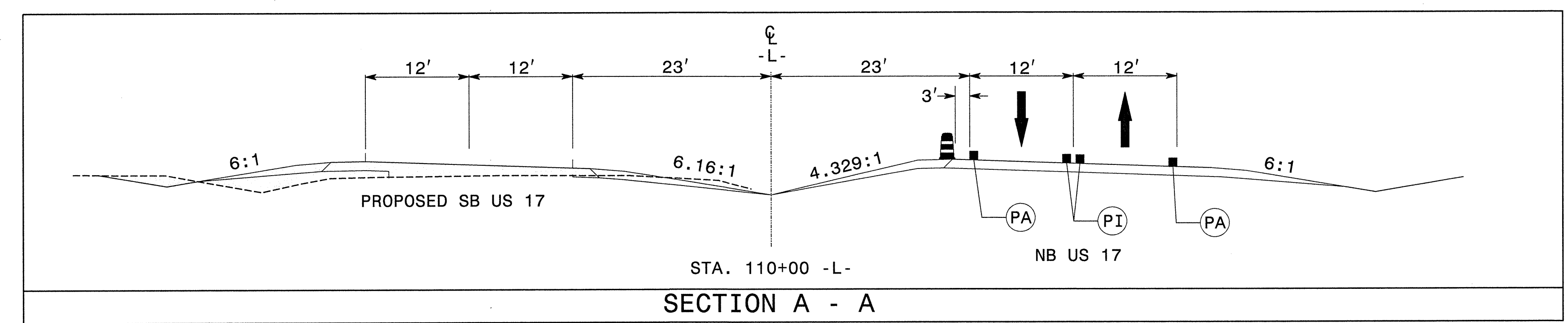
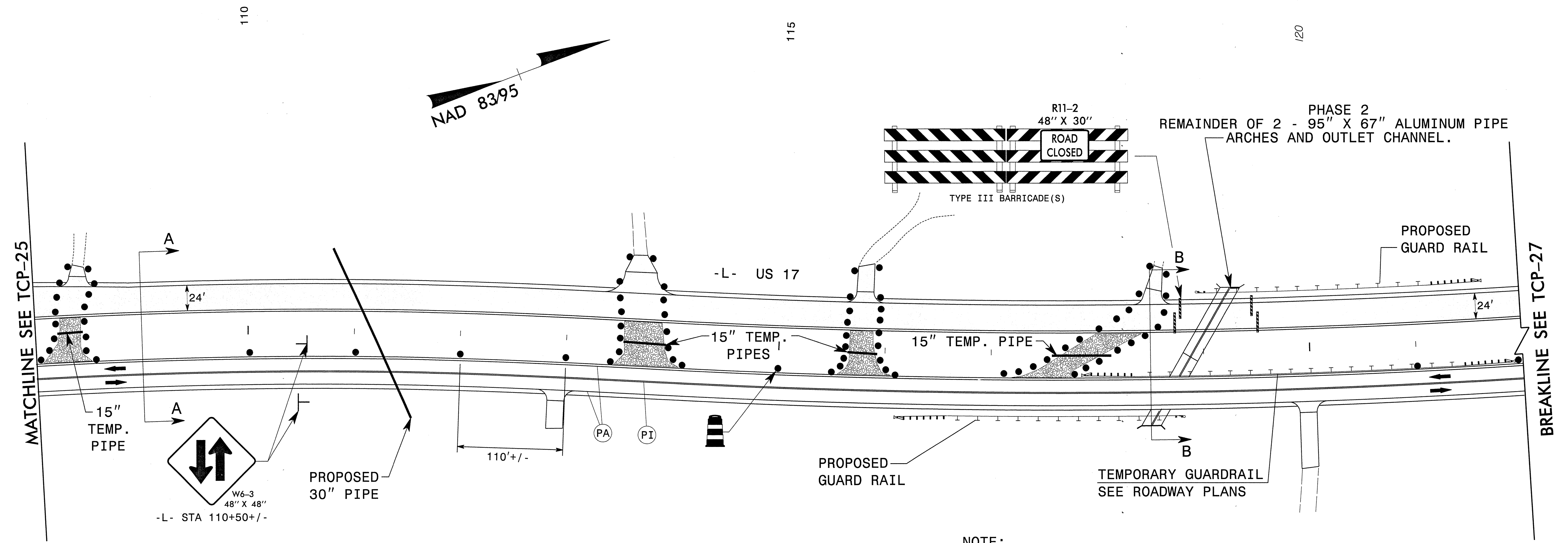
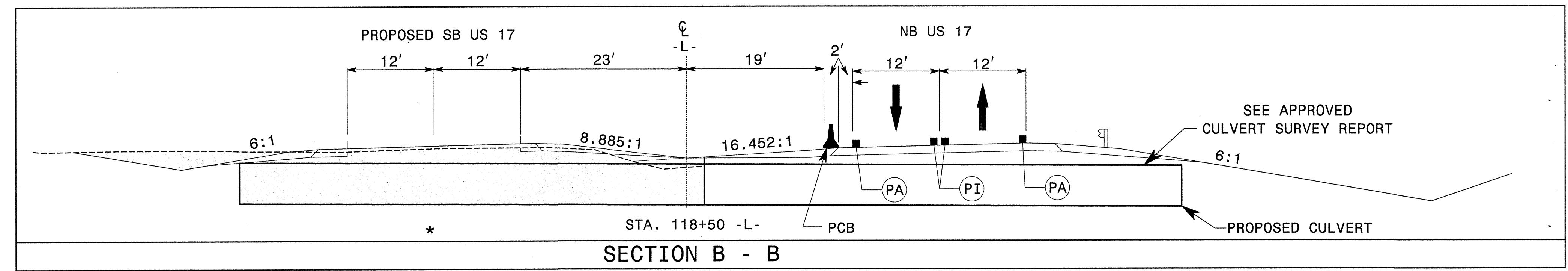
SEAL

NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 SEAL
 19834
 B. KEITH SKINNER

PHASE II DETAIL
 STA. 94+00 -L- TO STA. 108+00 -L-

SCALE: NONE		REVISIONS
DATE: 08/09		
DWG. BY: CAS		
DESIGN BY: MAC		
REVIEWED BY: BKS		

CADD FILE



- NOTE:
1. Remove first phase 116' 18" BCCS, impervious dikes, and black bag. This allows water to run through new culvert.
 2. Construct road section.
 3. Install second phase 120' 18" BCCS at Sta. 119+43 -L- and impervious dikes (i.e. sand bags) to divert water to 18" BCCS.
 4. Remove existing culvert.
 5. Install black bag filtration device at 119+35 -L- , 115' LT, and remainder of 2 - 95" X 67" Aluminum Pipe Arches.
 6. Construct proposed inlet channel.
 7. Remove 18", impervious dikes, and black bag.
 8. Construct embankments and permanent pavement.
 9. Remove rock silt screen.

NOTE: MAINTAIN DRIVEWAYS WITH ABC

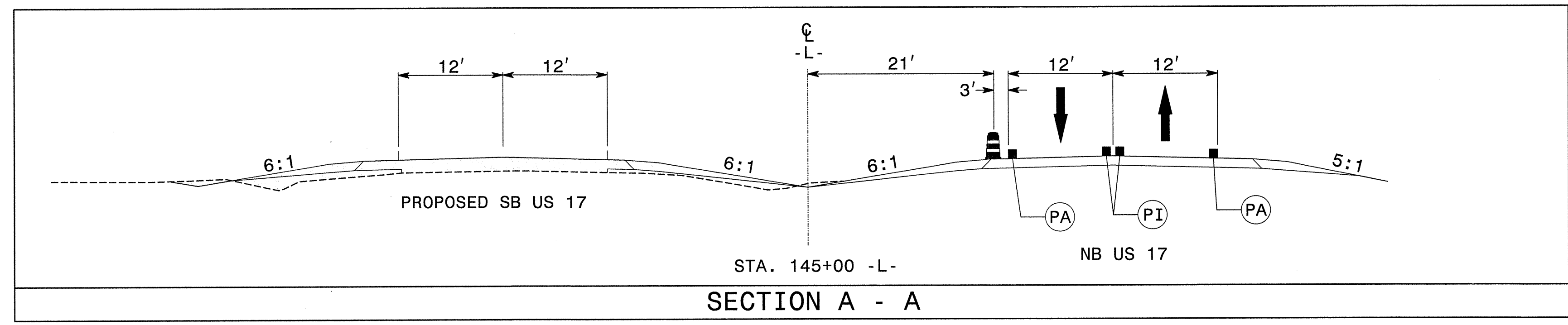
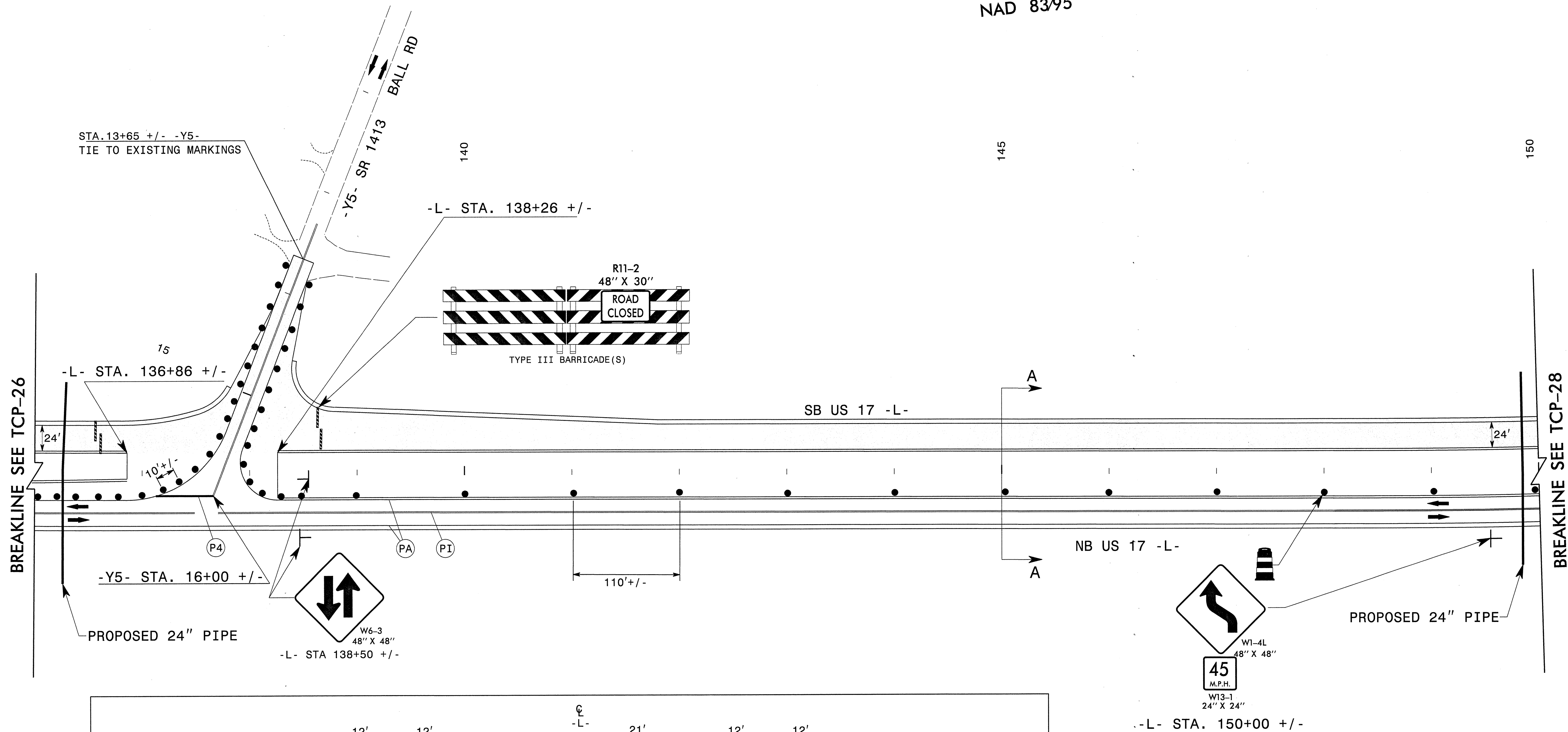
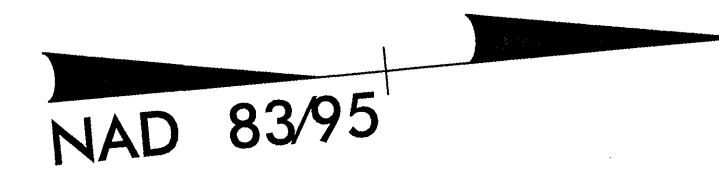
NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

PLANS PREPARED BY:
RK K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560
FOR
DIVISION OF HIGHWAYS

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
10/26/2010
B. Keith Skinner

PHASE II DETAIL STA. 108+00 -L- TO STA. 122+00 -L-	
SCALE: NONE	REVISIONS
DATE: 08/09	
DWG. BY: CAS	
DESIGN BY: MAC	
REVIEWED BY: BKS	

10/26/10 09:24:15 r:\TrafficControl\TCP\1002\2510c_tcp_26.dgn



NOTE: MAINTAIN DRIVEWAYS WITH ABC

NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

10\26\10_09\24
P:\Tr-offic\Tr-offic\Contr\on\TCP\100\Ar2510c_top_tcp27.dgn
miamy

PLANS PREPARED BY :

RK K

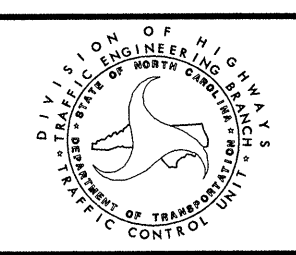
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

FOR
DIVISION OF HIGHWAYS

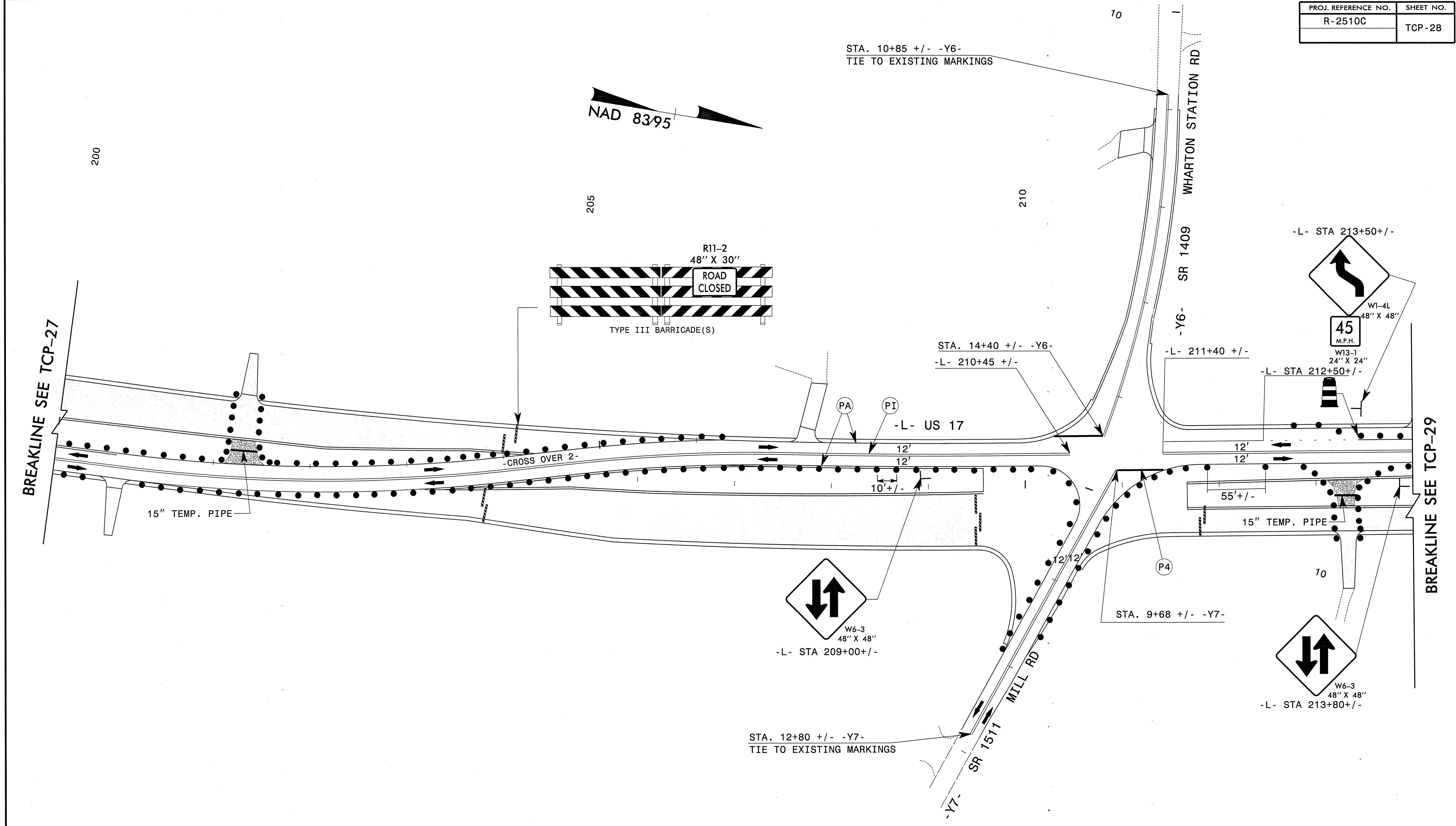
SEAL

NORTH CAROLINA
PROFESSIONAL
ENGINEER
10/26/2010
B. Keith Skinner

PHASE II DETAIL STA. 136+00 -L- TO STA. 150+00 -L-	
SCALE: NONE	REVISIONS
DATE: 08/09	
DWG. BY: CAS	
DESIGN BY: MAC	
REVIEWED BY: BKS	



CADD FILE



BREAKLINE SEE TCP-27

BREAKLINE SEE TCP-29

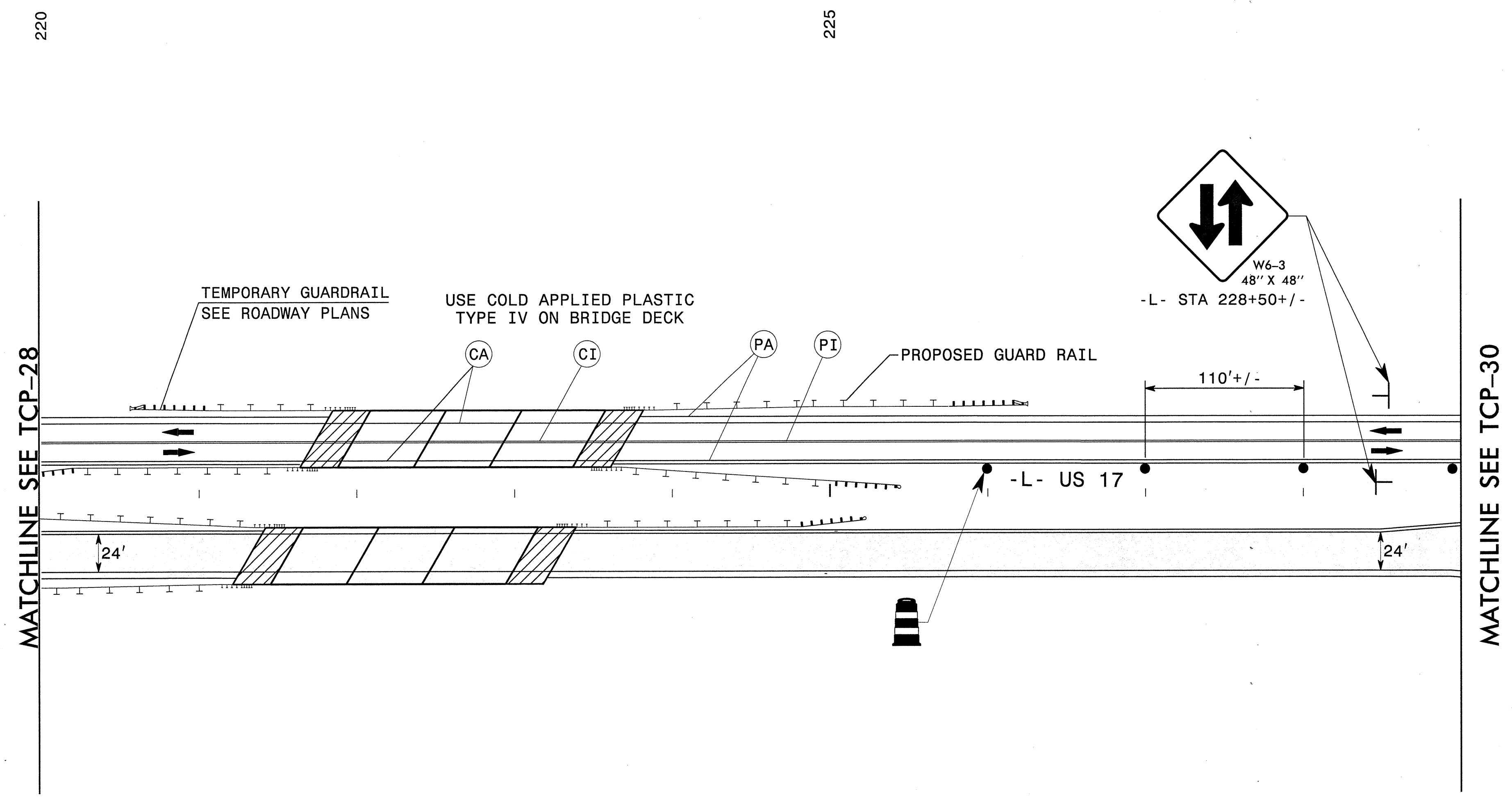
NOTE: MAINTAIN DRIVEWAYS WITH ABC
 NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
 CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

I:\26\10_09\233
 P:\TrafficControl\TCP\100\Ar2510c_top_tcp28.dgn
 mlamy

PLANS PREPARED BY:
RK K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 B. Keith Skinner
 10/2/2010

PHASE II DETAIL STA. 200+00 -L- TO STA. 214+00 -L-							
SCALE: NONE							
DATE: 08/09							
DWG. BY: CAS							
DESIGN BY: MAC							
REVIEWED BY: BKS	REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>						
CADD FILE							



I:\26\10_09\240
 r:\TrafficControl\TCP\002\2510c_tcp_tcp29.dgn
 mlamy

PLANS PREPARED BY :

RK K

RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560

FOR
 DIVISION OF HIGHWAYS

SEAL

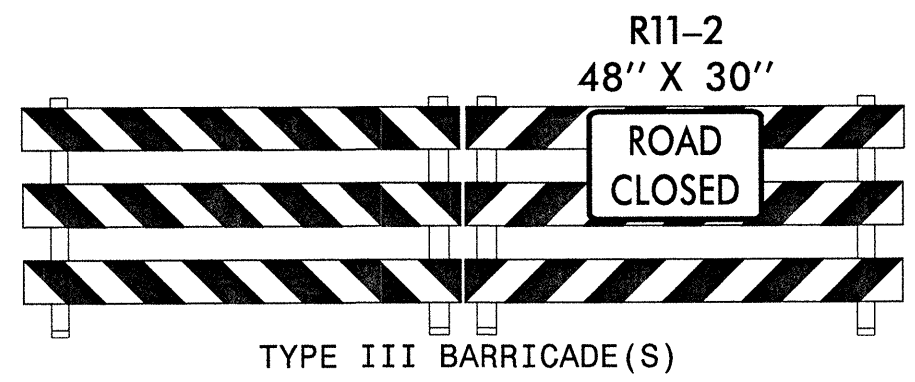
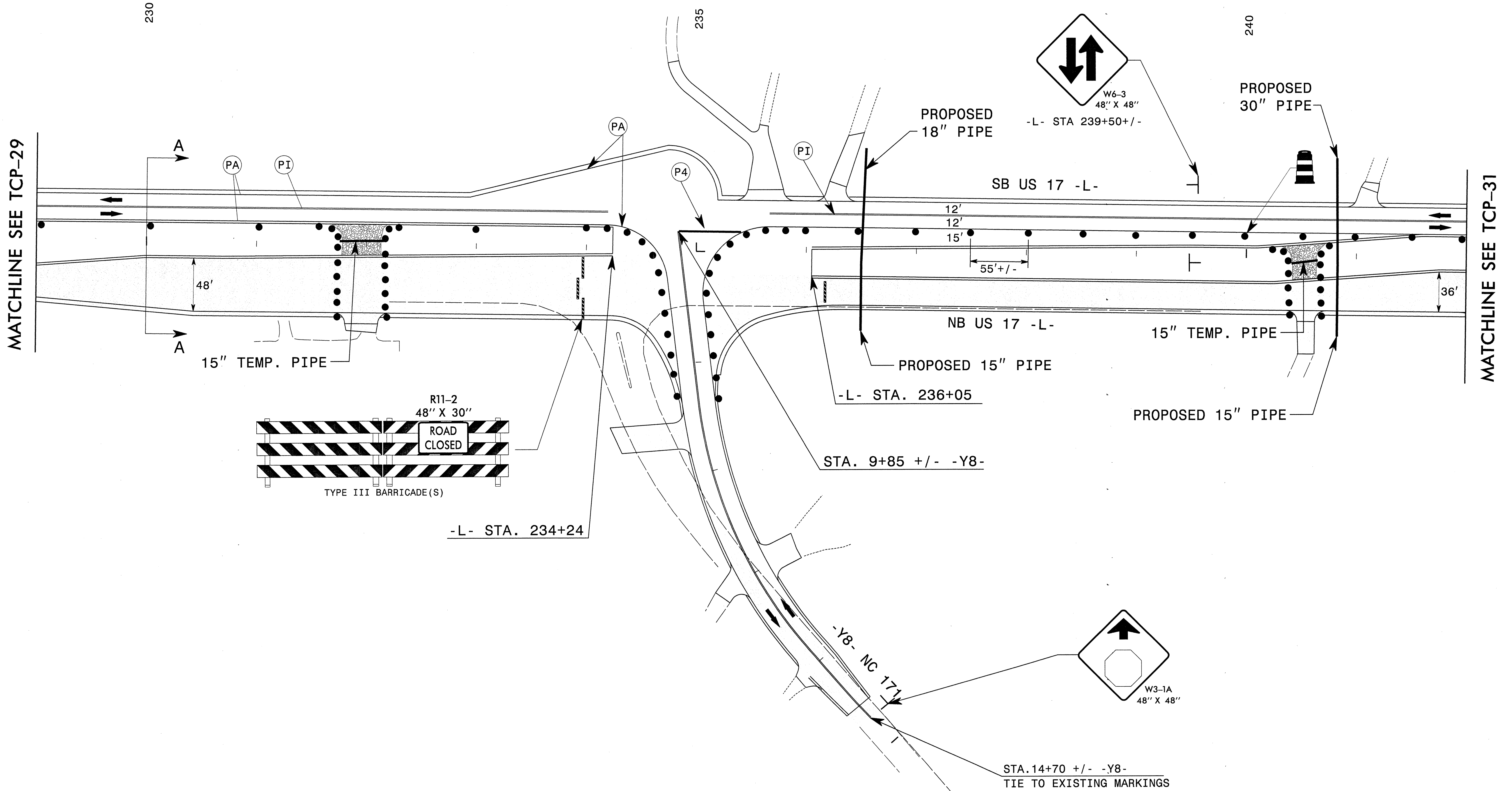
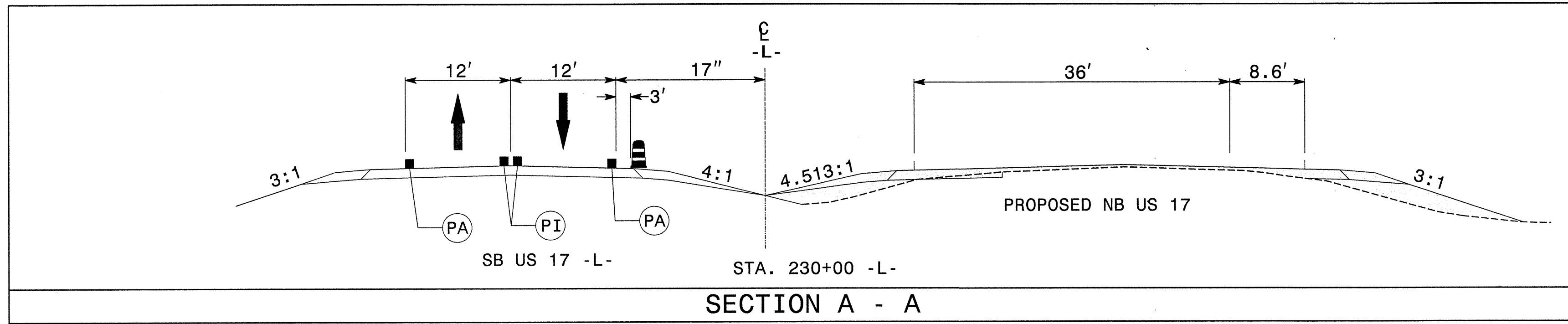
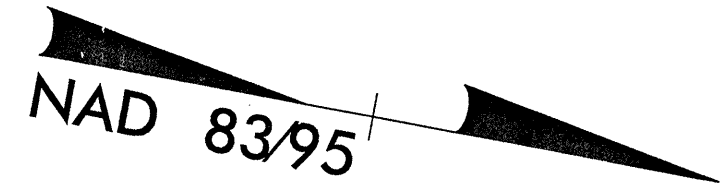
NORTH CAROLINA
 PROFESSIONAL
 SEAL
 19834
 ENGINEER
 B. KEITH SKINNER

B. Keith Skinner

PHASE II DETAIL
 STA. 220+00 -L- TO STA. 229+00 -L-

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:	08/09										
DWG. BY:	CAS										
DESIGN BY:	MAC										
REVIEWED BY:	BKS	CADD FILE									

PROJ. REFERENCE NO.	SHEET NO.
R-2510C	TCP-30



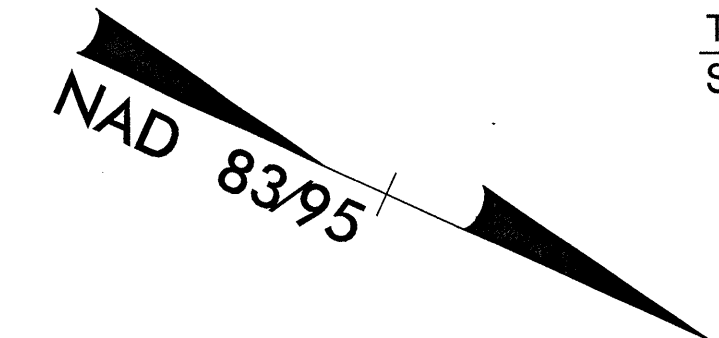
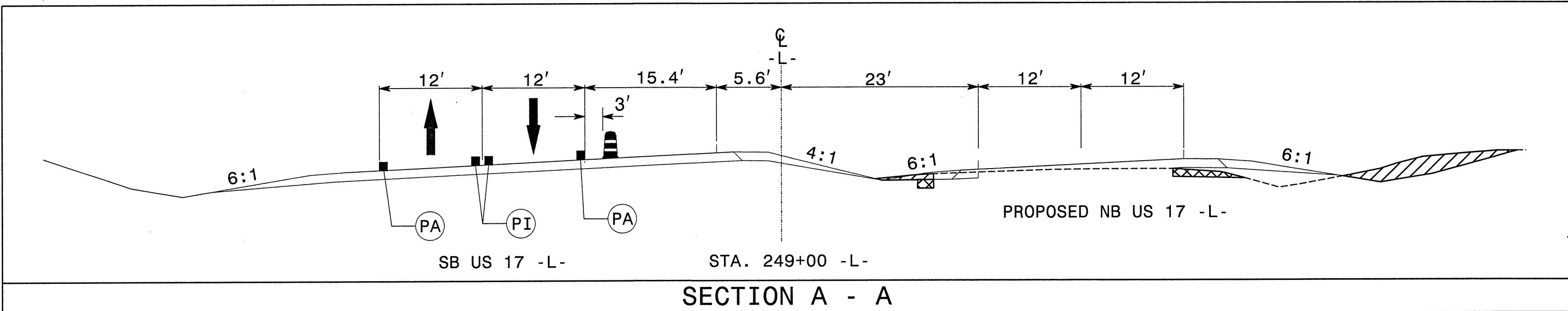
NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

PLANS PREPARED BY:
RK K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560
FOR
DIVISION OF HIGHWAYS

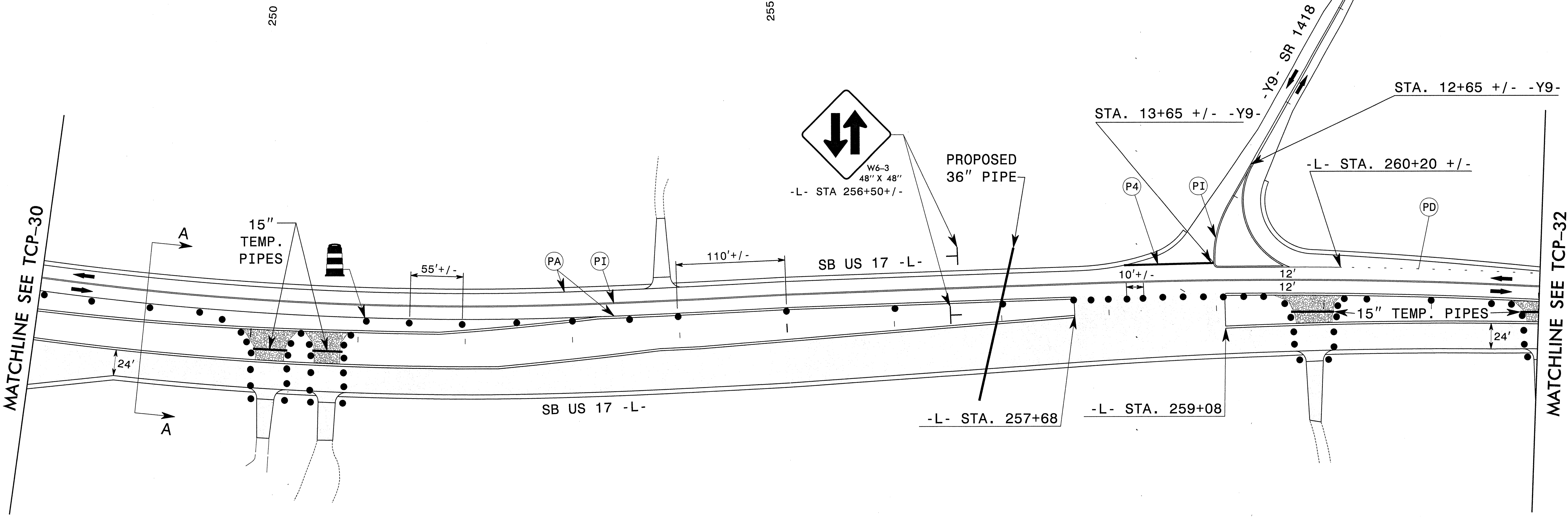
SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
19834
B. KEITH SKINNER
08/09/2009

PHASE II DETAIL STA. 229+00 -L- TO STA. 242+00 -L-	
SCALE: NONE	REVISIONS
DATE: 08/09	
DWG. BY: CAS	
DESIGN BY: MAC	
REVIEWED BY: BKS	

I:\26\10_09\2510 R-2510C\TrafficControl\TCP\100%vr2510c_tcp_top30.dgn



TIE TO EXISTING SOIL ROAD
 STA. 10+45 +/- -Y9-



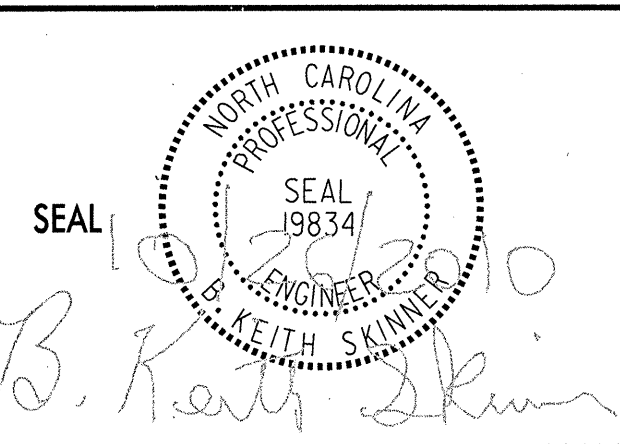
MATCHLINE SEE TCP-30

MATCHLINE SEE TCP-32

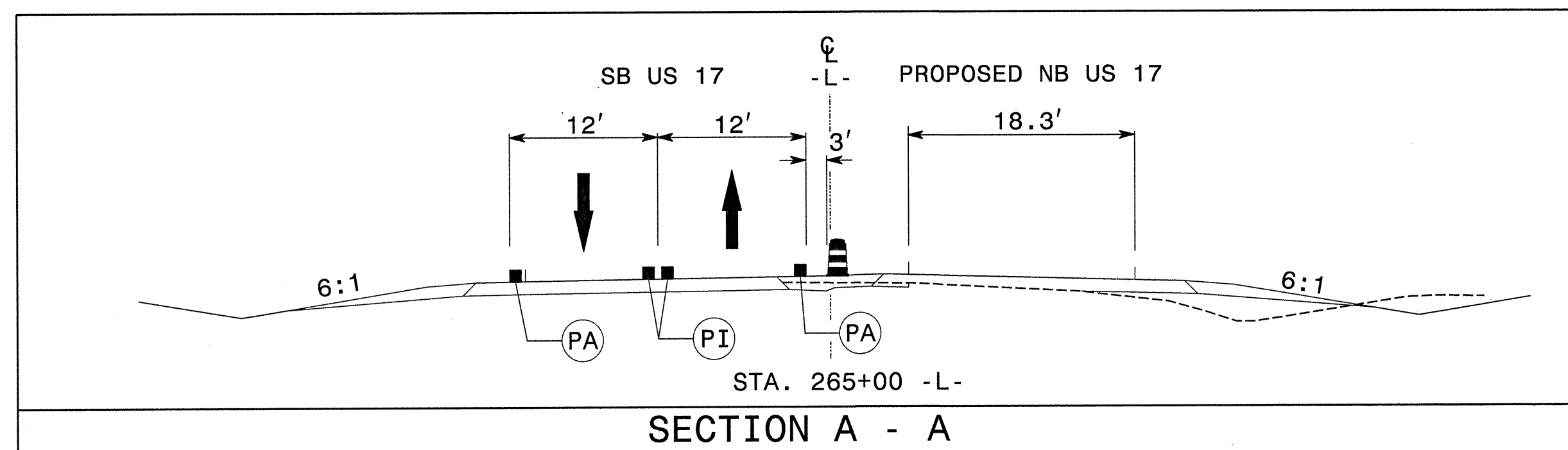
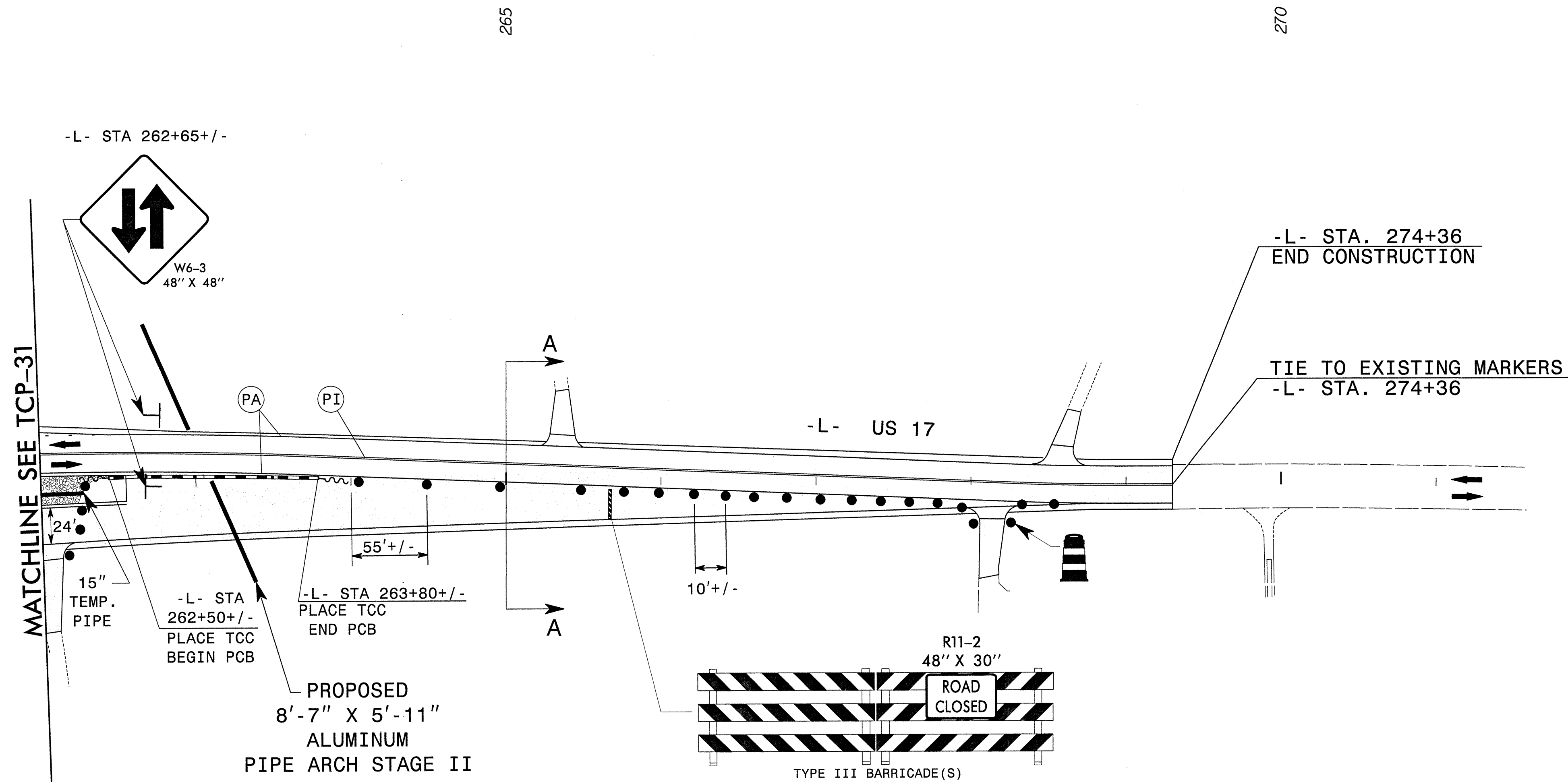
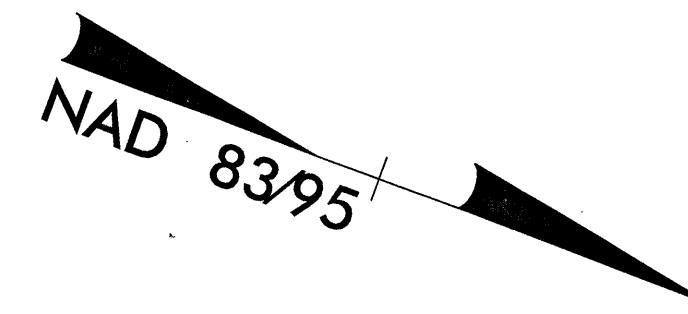
NOTE: MAINTAIN DRIVEWAYS WITH ABC
 NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
 CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

I:\26\10_09\259
 r:\TrafficControl\TCP\002\2510c_tcp_tcp31.dgn
 miamy

PLANS PREPARED BY:
RK K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS



PHASE II DETAIL STA. 248+00 -L- TO STA. 262+00 -L-	
SCALE: NONE	REVISIONS
DATE: 08/09	
DWG. BY: CAS	
DESIGN BY: MAC	
REVIEWED BY: BKS	



NOTE: MAINTAIN DRIVEWAYS WITH ABC
 NOTE: FOR DETAILED DRAINAGE SEE ROADWAY PLANS.
 CROSSPIPES SHOWN ONLY FOR TRAFFIC CONTROL PHASING

PLANS PREPARED BY:
RK K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
 DIVISION OF HIGHWAYS

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 19834
 B. Keith Skinner

PHASE II DETAIL
 STA. 262+00 -L- TO STA. 274+36 -L-
 SCALE: NONE
 DATE: 8/09
 DWG. BY: CAS
 DESIGN BY: MAC
 REVIEWED BY: BKS

REVISIONS

I:\2610_09\13\06
 r:\TrafficControl\TCP\1002\2510c_top_top32.dgn
 mlamy

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM/QUANTITY BREAKDOWN	TOTAL QUANTITY
<u>PAVEMENT MARKING LINES</u>			
<u>4" PAINT</u>			
PA	WHITE EDGELINE	52092 LF	
PB	YELLOW EDGELINE	1100 LF	
PC	10 FT. WHITE SKIP	11810 LF	
PD	2 FT. WHITE MINISKIP	1500 LF	
PI	YELLOW DOUBLE CENTER	50792 LF	
			TOTAL 117294 LF
<u>8" PAINT</u>			
PR	WHITE GORELINE	10500 LF	
PS	WHITE DIAGONAL	3000 LF	
			TOTAL 13500 LF
<u>24" PAINT</u>			
P4	WHITE STOPBAR	250 LF	
			TOTAL 250 LF
<u>PAINT SYMBOLS</u>			
QA	LEFT TURN ARROW	45 EA	
QB	RIGHT TURN ARROW	16 EA	
QC	STRAIGHT ARROW	60 EA	
			TOTAL 121 EA
<u>4" COLD APPLIED PLASTIC (TYPE IV)</u>			
CA	WHITE EDGELINE	2250 EA	
CA	YELLOW DOUBLE CENTER	2250 EA	
			TOTAL 4500 EA
<u>TEMPORARY RAISED PAVEMENT MARKERS</u>			
MH	YELLOW & YELLOW	646 EA	
MI	CRYSTAL & RED	100 EA	
			TOTAL 746 EA

I:\26\10_09\33\1
 R:\TrafficControl\TCP\1007\1r2510c_tcp_33.dgn
 mlamy

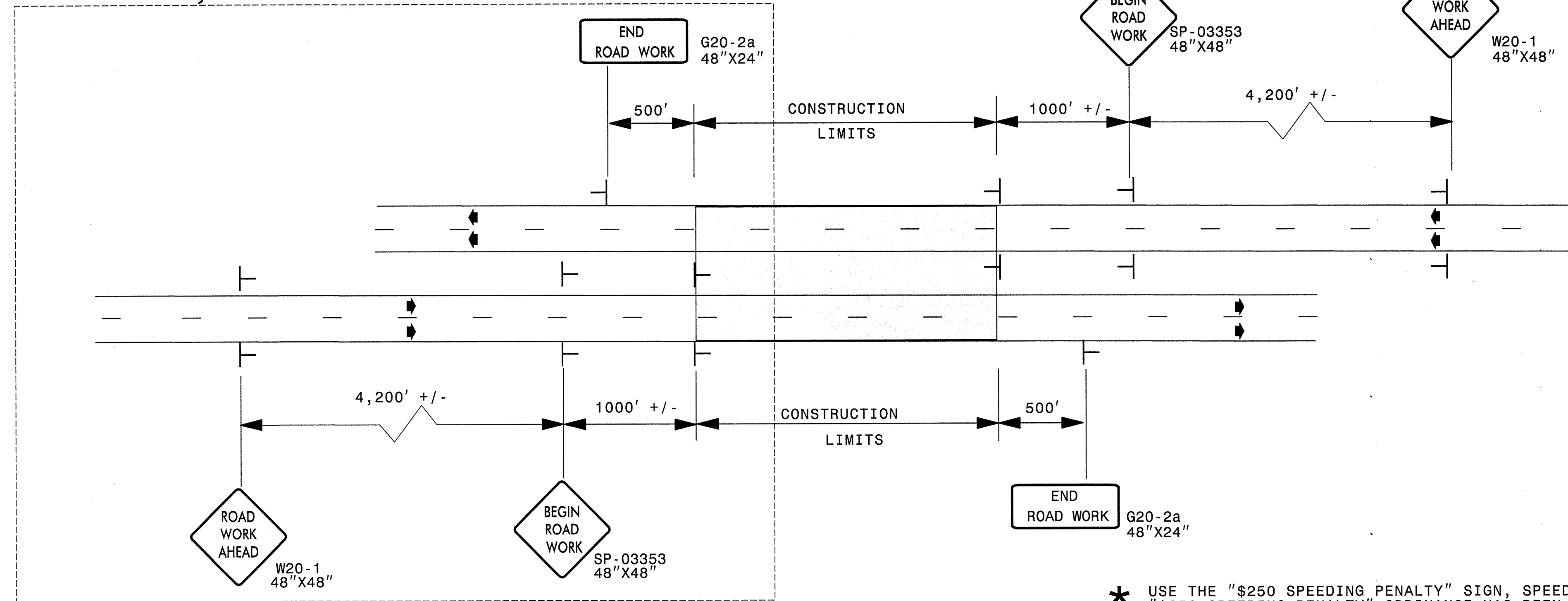
PLANS PREPARED BY : RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 • (919) 878-9560 FOR DIVISION OF HIGHWAYS	SEAL <i>B. Keith Skinner</i>	<h3 style="margin: 0;">TEMPORARY PAVEMENT MARKING SCHEDULE</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">SCALE: NONE</td> <td style="width: 50%; text-align: center;">REVISIONS</td> </tr> <tr> <td>DATE: 08/09</td> <td></td> </tr> <tr> <td>DWG. BY: MAC</td> <td></td> </tr> <tr> <td>DESIGN BY:</td> <td></td> </tr> <tr> <td>REVIEWED BY: BKS</td> <td></td> </tr> </table>	SCALE: NONE	REVISIONS	DATE: 08/09		DWG. BY: MAC		DESIGN BY:		REVIEWED BY: BKS	
SCALE: NONE	REVISIONS											
DATE: 08/09												
DWG. BY: MAC												
DESIGN BY:												
REVIEWED BY: BKS												

ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

PROJ. REFERENCE NO. R-2510C	SHEET NO. TCP-35
--------------------------------	---------------------

DETAIL A

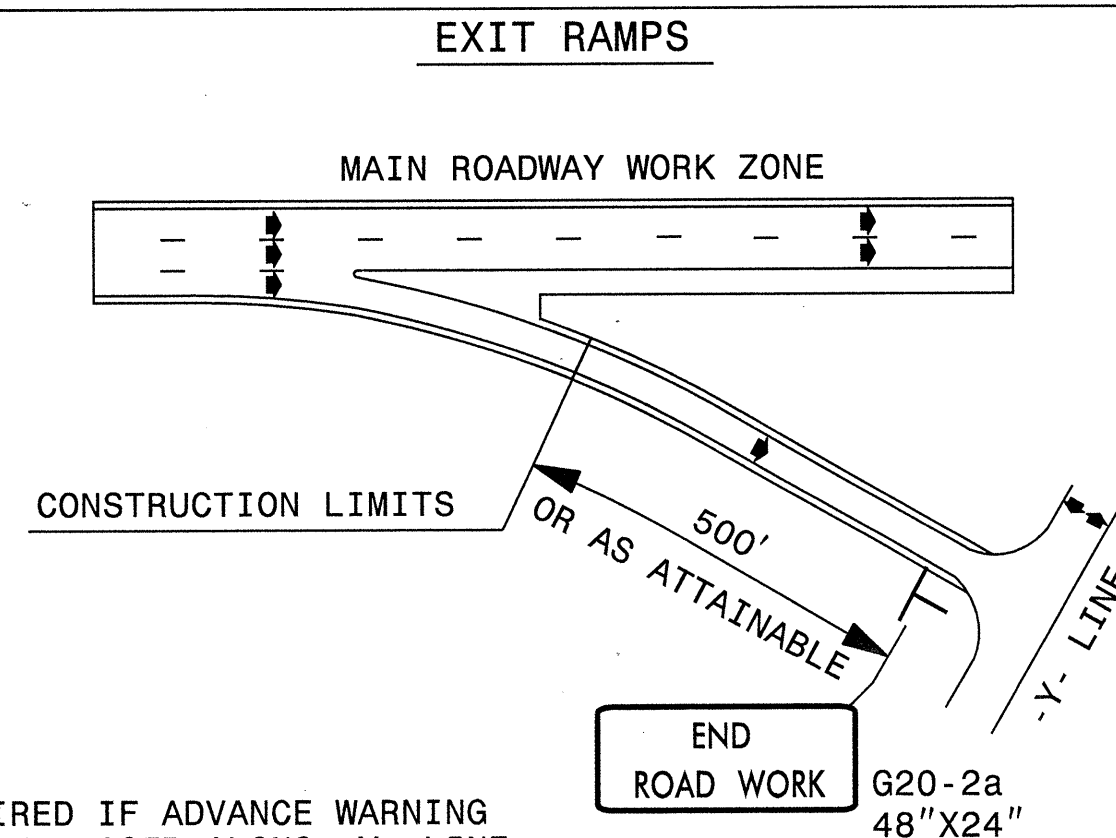
COORDINATE THE INSTALLATION OF THESE SIGNS WITH R-2510B, AS DIRECTED BY THE ENGINEER.



LEGEND	
	STATIONARY SIGN
▶	DIRECTION OF TRAFFIC FLOW

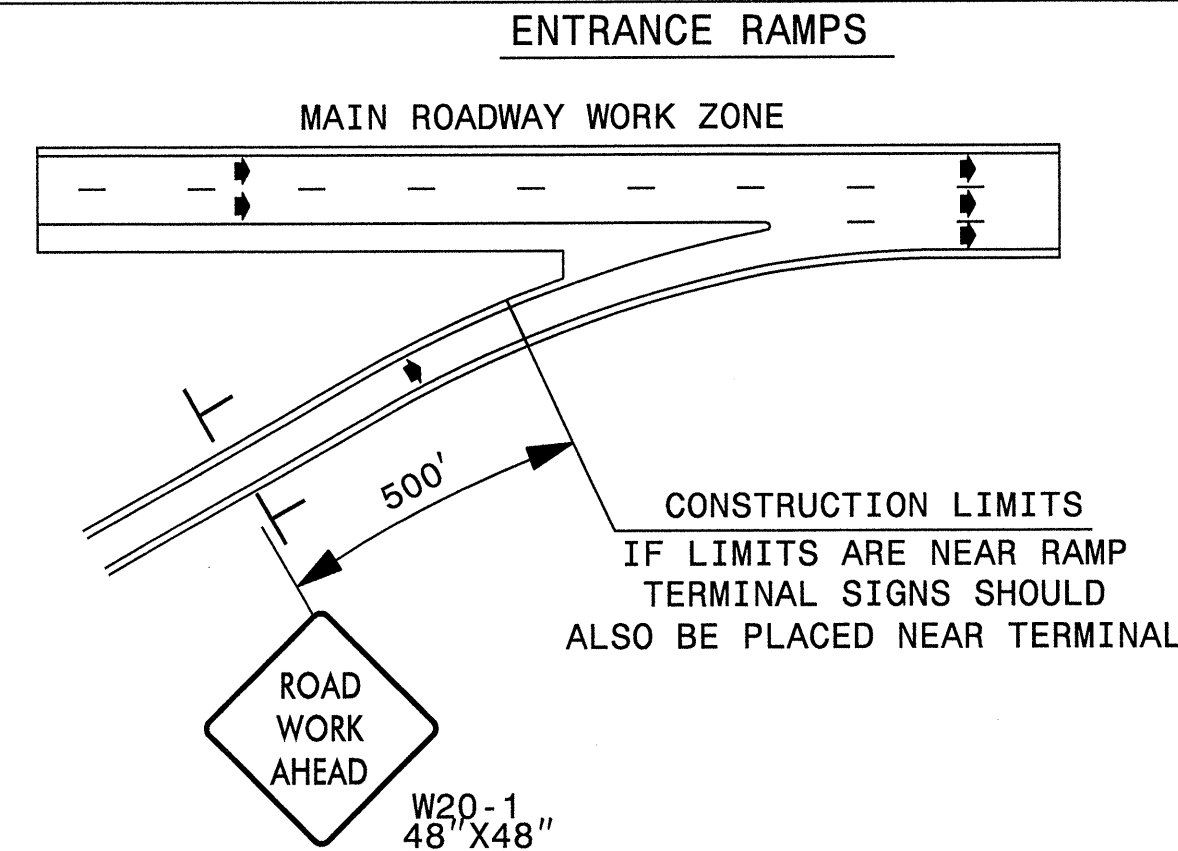
* USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.

DETAIL B



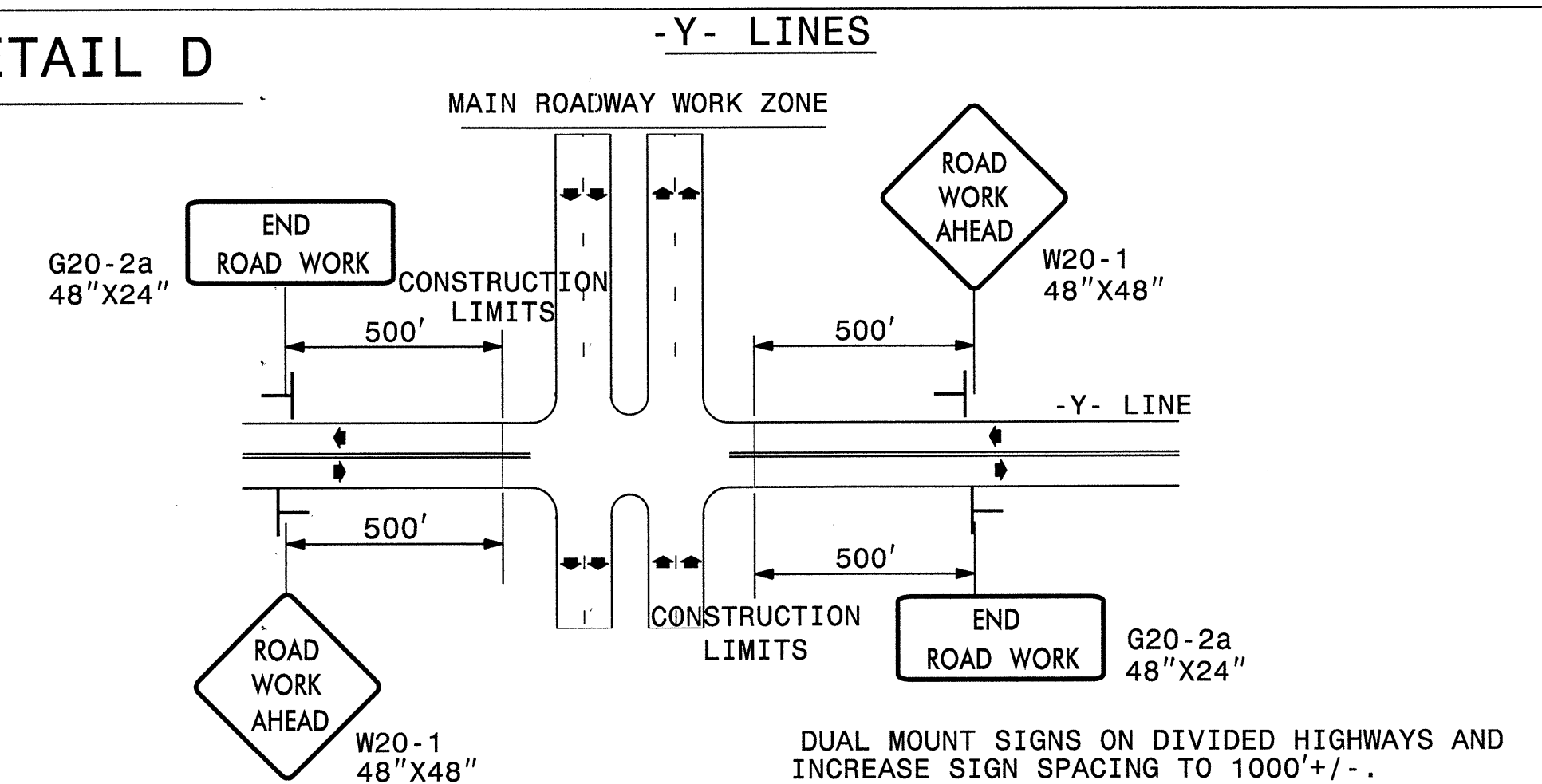
NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

DETAIL C



CONSTRUCTION LIMITS IF LIMITS ARE NEAR RAMP TERMINAL SIGNS SHOULD ALSO BE PLACED NEAR TERMINAL

DETAIL D



DUAL MOUNT SIGNS ON DIVIDED HIGHWAYS AND INCREASE SIGN SPACING TO 1000'+/-.

GENERAL NOTES

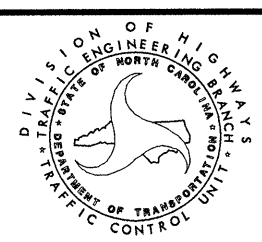
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, 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.

PLANS PREPARED BY:
RK K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560
FOR
DIVISION OF HIGHWAYS

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
19834
B. Keith Skinn

ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)

SCALE: NONE
DATE: 8/09
DWG. BY: MAC
DESIGN BY: MAC
REVIEWED BY: MAC



REVISIONS	
03/04	