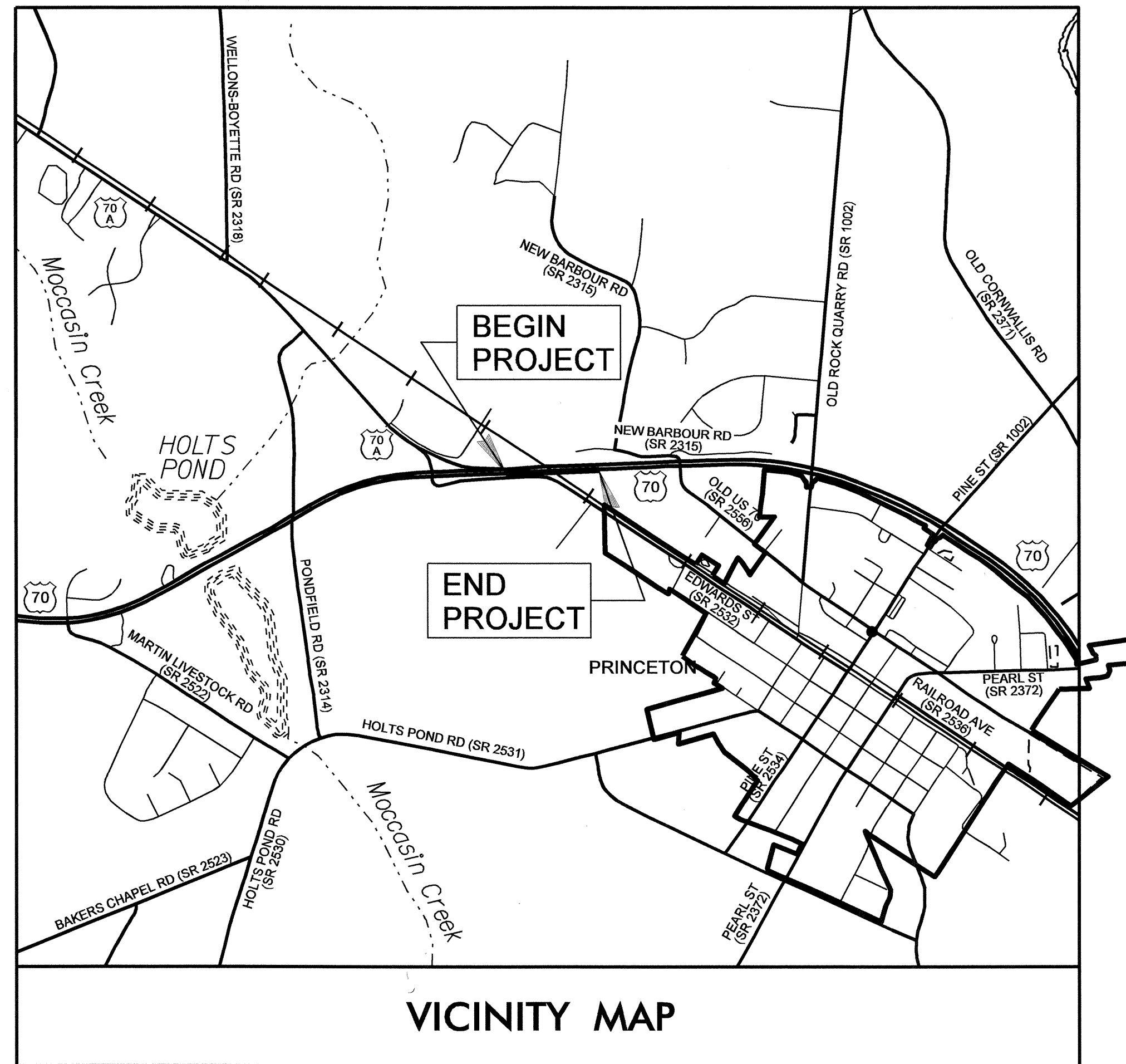
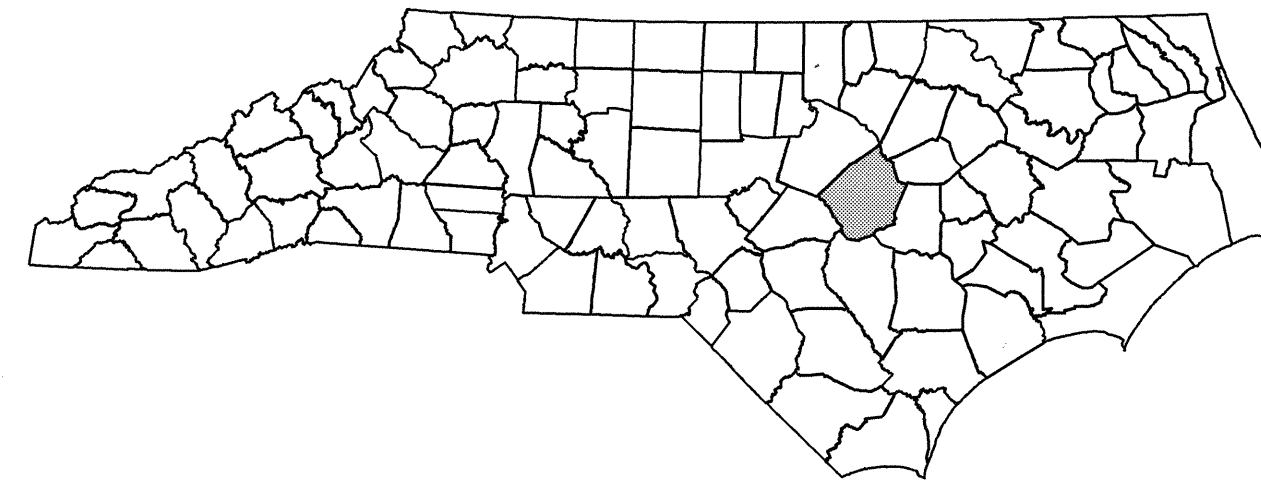


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

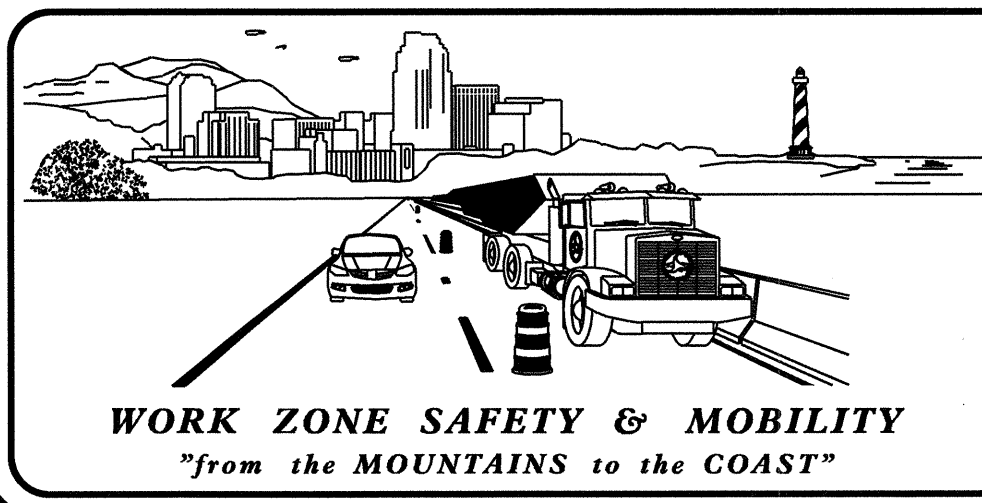
JOHNSTON COUNTY



VICINITY MAP

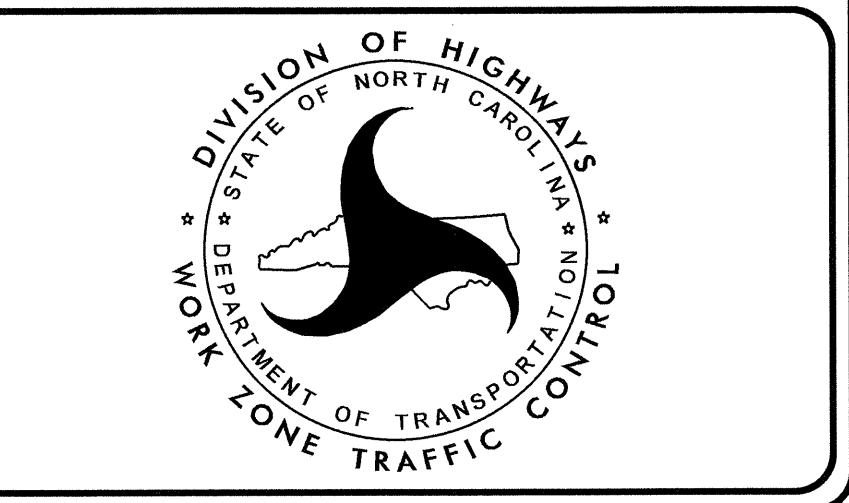
INDEX OF SHEETS	
SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B - TMP-1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES AND LOCAL NOTES)
TMP-2A	"WORK ZONE" SPEED LIMIT REDUCTION
TMP-2B	WORK ZONE ASPHALT ISLAND
TMP-3	PHASING
TMP-4 - TMP-5	PHASE IA
TMP-6 - TMP-9	PHASE IB
TMP-10 - TMP-11	PHASE II
TMP-12 - TMP-13	PHASE III

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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
J. ISHAK, P.E. TRAFFIC CONTROL PROJECT ENGINEER
TRAFFIC CONTROL PROJECT DESIGN ENGINEER
S. B. JENNINGS TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: _____
DATE: _____

Professional Engineer Seal for Joseph Ishak, No. 028380, State of North Carolina. Date: Feb 29, 2012.

SHEET NO. TMP-1
TIP PROJECT: B-4555

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE WARNING SIGNS
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 BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1180.01	SKINNY - DRUM
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

LEGEND

GENERAL

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

- WORK AREA
- REMOVAL
- USER DEFINED (IF NEEDED)
- USER DEFINED (IF NEEDED)

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

- PAINT - 4"
- PA WHITE EDGELINE
- PB YELLOW EDGELINE
- PD WHITE MINI-SKIP
- PI 10' WHITE SKIP
- P9 YELLOW MINI-SKIP
- PAINT - 8"
- PN WHITE GORE LINE
- P0 WHITE DIAGONAL
- PAINT - 24"
- P2 WHITE STOPBAR

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APPROVED:	DATE:		ROADWAY STANDARD DRAWINGS & LEGEND

MANAGEMENT STRATEGIES

TIME RESTRICTIONS FOR LANE CLOSURES WILL BE USED TO MITIGATE IMPACT OF WORK ZONE TO TRAFFIC DURING HIGH TRAFFIC TIMES.

GENERAL NOTES / LOCAL NOTES

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 70	MON - SUN 6:00 AM - 8:00 PM (WHILE TRAFFIC IS IN A 2L/2W PATTERN ON US 70)

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

ROAD NAME
US 70

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.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 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 9:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
US 70	MON - SUN 6:00 AM - 8:00 PM	10 MINUTES WHILE TRAFFIC IS IN A 2L/2W PATTERN

D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

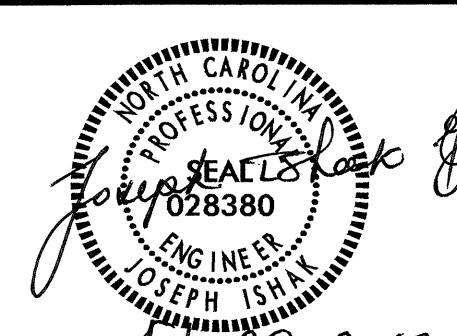
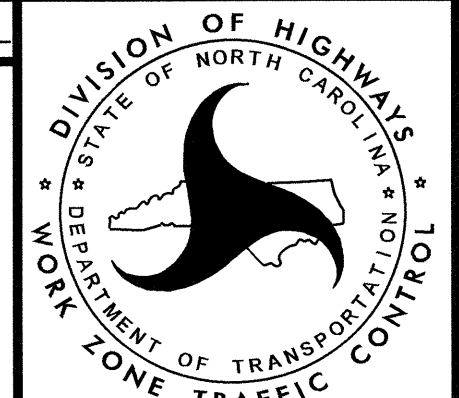
LANE AND SHOULDER CLOSURE REQUIREMENTS

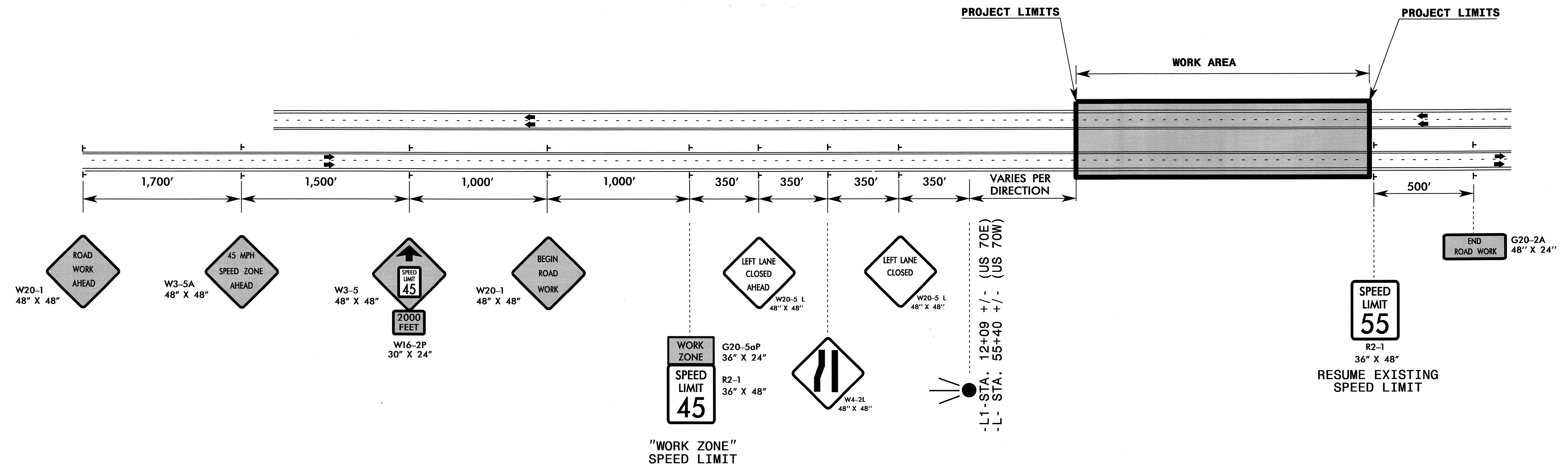
- E) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- G) 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.

- H) 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.
- I) 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.
- J) DO NOT INSTALL MORE THAN 2 MILES OF LANE CLOSURE ON US 70 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- K) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON US 70.
- L) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

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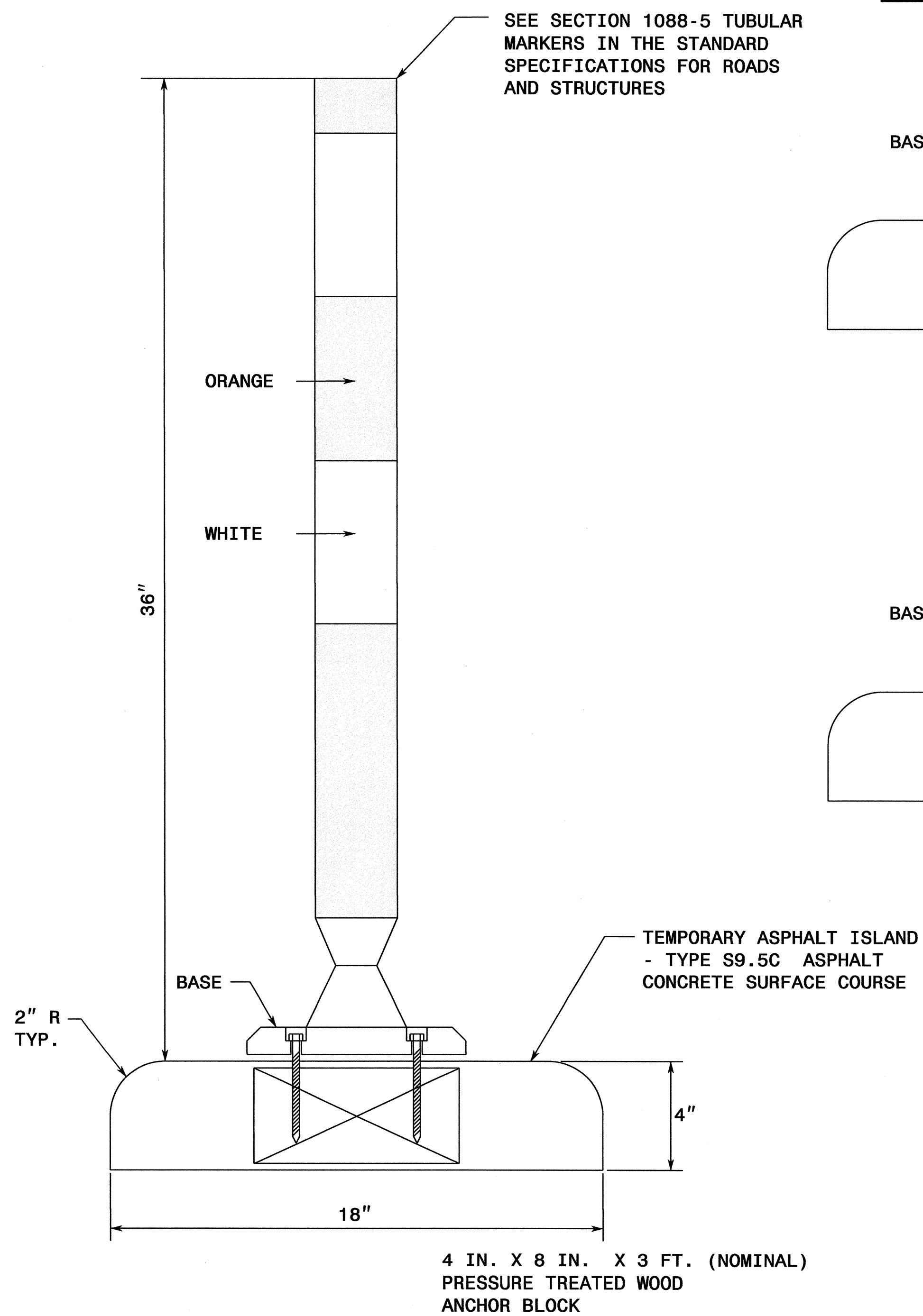
APPROVED: _____ DATE: _____  Joseph Isham ENGINEER JOSEPH ISHAM 28380 FEB 29, 2012		<h1 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h1>
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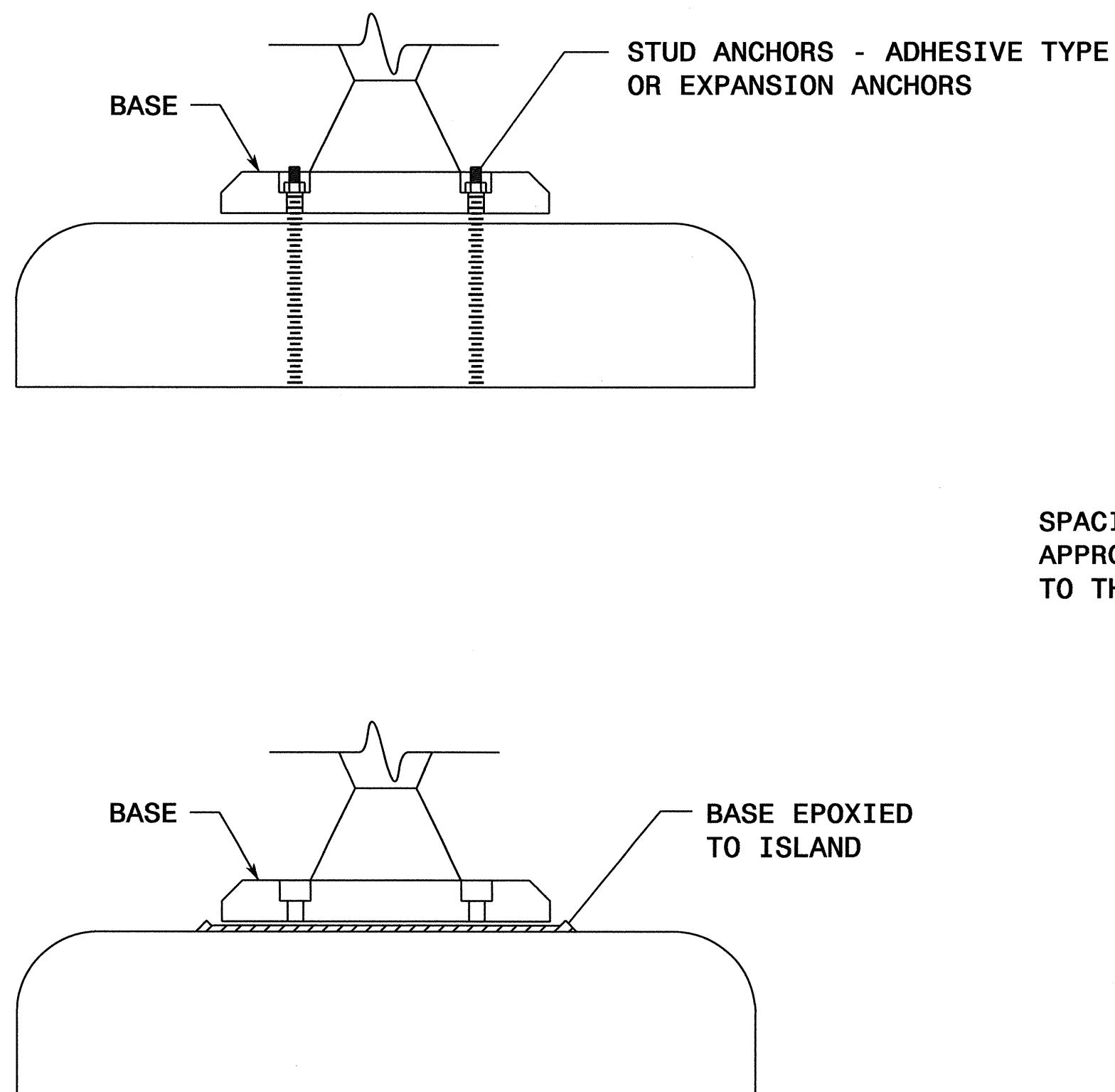
- NOTES**
- 1) MOUNT WORK ZONE SPEED LIMIT SIGNS 7' ABOVE EDGE OF PAVEMENT ELEVATION.
 - 2) ADJUST LOCATIONS OF LANE CLOSURE SIGNS TO AVOID OVERLAP AND CLUTTER ON US 70.
 - 3) ADDITIONAL "WORK ZONE SPEED LIMIT" SIGNS MAY BE NEEDED AS DETERMINED BY THE REGIONAL TRAFFIC ENGINEER.
 - 4) USE THE SAME SETUP FOR BOTH DIRECTIONS ON US 70.

APPROVED: _____	DATE: _____	
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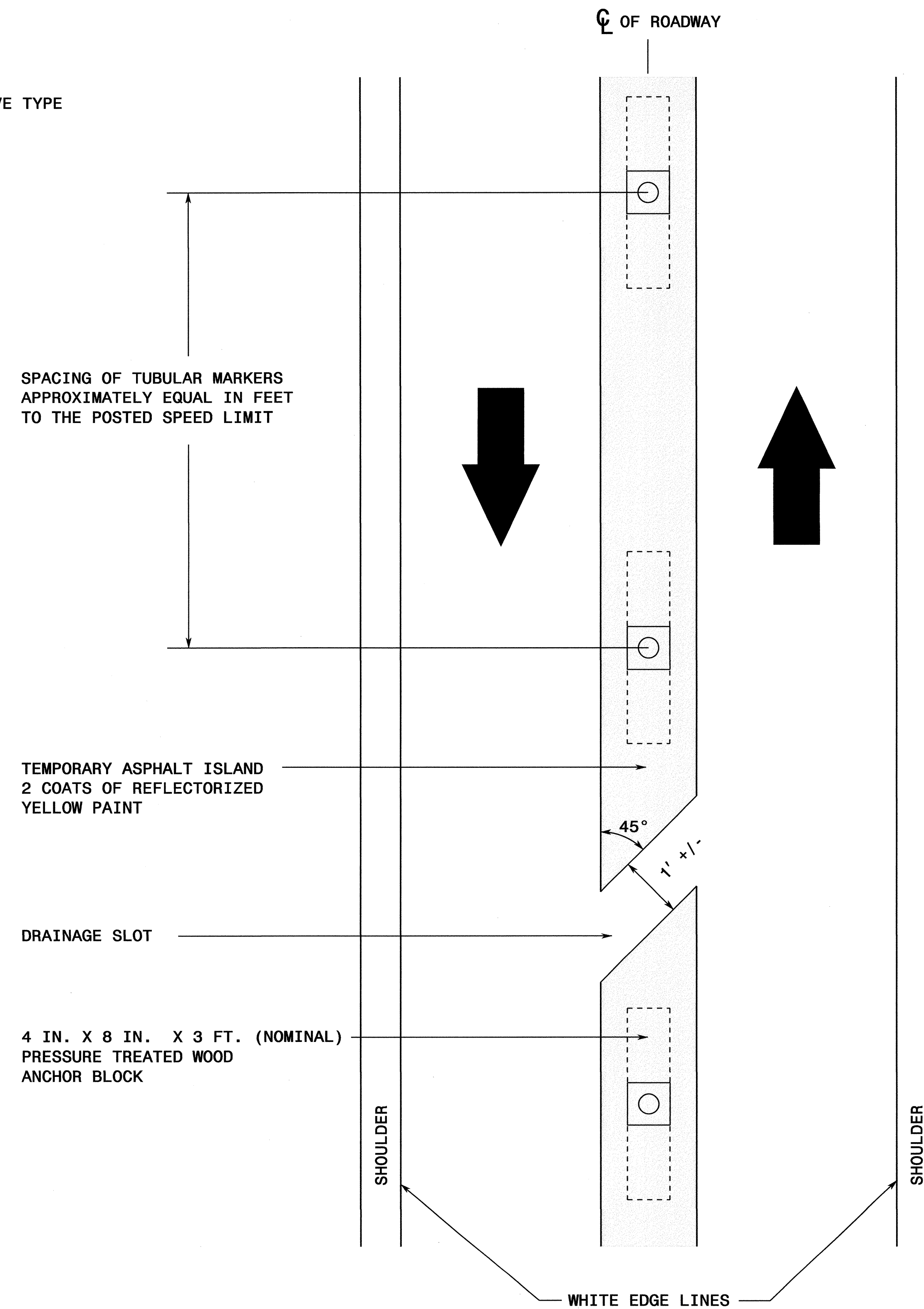
SECTION VIEW



ALTERNATE BASE MOUNTING DETAILS



TOP VIEW

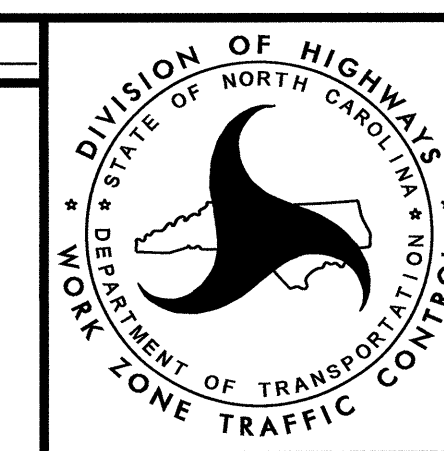


GENERAL NOTES

- DRAINAGE SLOTS SHALL BE LOCATED IN AREAS OF ROADWAY SUPERELEVATION AS DETERMINED ON SITE. THE SLOTS SHALL BE ANGLED IN THE SAME DIRECTION AS THE WATER FLOW, AT APPROXIMATELY A 45 DEGREE ANGLE.
- ISLAND SHALL BE PAINTED WITH 2 COATS OF REFLECTORIZED YELLOW PAINT. PRECAUTIONS SHALL BE TAKEN TO PREVENT OVERSPRAY ONTO THE ADJACENT PAVEMENT.
- ISLAND MAY BE REMOVED BY SCRAPING FROM ROADWAY SURFACE WITH A FRONT-END LOADER.

APPROVED: *Joseph Ishak* DATE: April 11, 2012

SEAL
028380
ENGINEER
JOSEPH ISHAK



**WORK ZONE
ASPHALT ISLAND**

PHASING

NOTE: MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION

PHASE IA

STEP 1 INSTALL ADVANCED WORK ZONE WARNING SIGNS ON -L- (US 70) AS REQUIRED IN PROJECT NOTES. INSTALL SPEED LIMIT REDUCTION SIGNS ON -L- (US 70) AS SHOWN ON SHEET TMP-2A.

STEP 2 USING RSD 1101.02, SHEETS 3 AND 10 OF 15, PERFORM THE FOLLOWING: (SEE SHEETS TMP-4, TMP-5 AND ROADWAY PLANS)
 - REMOVE AND REPLACE EXISTING OUTSIDE SHOULDER OF US 70 WB AS FOLLOWS:
 -XL- STA. 16+65 +/- TO WB BRIDGE AND FROM WB BRIDGE TO -XL- STA. 31+76 +/-.
 - MAY BEGIN CONSTRUCTION OF -XL- AS FOLLOWS:
 -XL- STA. 12+87 +/- TO -XL- STA. 16+44 +/-, AND FROM -XL- STA. 30+14 +/- TO -XL- STA. 34+83 +/-.
 - INSTALL TEMPORARY SIGNAL AT INTERSECTION OF US 70 AND US 70A/SR 2532 (W EDWARDS ST).

USING RSD 1101.02, SHEET 1 OF 15, MAY BEGIN CONSTRUCTION OF TEMPORARY PAVEMENT ON SHOULDER SR 2532 (W EDWARDS ST) AS FOLLOWS: (SEE SHEETS TMP-7 AND TMP-8)
 -L- STA.18+50 +/- to -L- STA. 26+25 +/-.

STEP 3 USING RSD 1101.02, SHEETS 3 AND 10 OF 15, PLACE TEMPORARY PAVEMENT MARKING ON WB US 70 (-XL-) AS SHOWN ON SHEETS TMP-7 THRU TMP-9, AND SHIFT WB TRAFFIC TO OUTSIDE LANE IN 1 LANE / 1 WAY PATTERN.

STEP 4 USING RSD 1101.03, SHEET 8 OF 9, CONSTRUCT ASPHALT ISLAND AS FOLLOWS: (SEE SHEETS TMP-7 AND TMP-8)
 -L- STA. 13+20 +/- TO -XL- STA. 34+83 +/-.

STEP 5 USING RSD 1101.02, SHEET 3 OF 15, INSTALL TEMPORARY PAVEMENT MARKING ON EB US 70, AS SHOWN ON SHEETS TMP-6 THRU TMP-9. SIMULTANEOUSLY ACTIVATE TEMPORARY SIGNAL AND SHIFT EB TRAFFIC TO OUTSIDE LANE IN 1 LANE / 1 WAY PATTERN.

PHASE 1B

STEP 1 USING RSD 1101.02, SHEET 3 OF 15, PERFORM THE FOLLOWING: (SEE SHEETS TMP-2C, TMP-6 THRU TMP-9, AND ROADWAY PLANS)
 - COMPLETE CONSTRUCTION OF -XL- FROM -XL- STA. 12+87 +/- TO -XL- STA. 34+83 +/-.
 - INSTALL TEMPORARY GUARDRAIL ALONG -XL- RT AND TIE TO EXISTING GUARDRAIL AS FOLLOWS:
 -XL- STA. 14+35 +/- TO -XL- STA. 21+00 +/- AND FROM -XL- STA. 24+16 +/- TO -XL- STA. 29+88 +/-.

USING RSD 1101.02, SHEET 1 OF 15, PERFORM THE FOLLOWING: (SEE SHEETS TMP-7 AND TMP-9)
 A) COMPLETE CONSTRUCTION OF TEMPORARY PAVEMENT ON SR 2532 (W EDWARDS ST) AS FOLLOWS:
 -L- STA. 18+50 +/- to -L- STA. 26+25 +/-.
 B) PLACE PCB ALONG SR 2532 (W EDWARDS ST) AS FOLLOWS:
 -L- STA. 18+75 +/- TO -L- STA. 26+00 +/-.

NOTE: PROTECT EXPOSED END OF PCB AND GUARDRAIL WITH TMA.

STEP 2 USING RSD 1101.02, SHEET 3 OF 15, AND 1101.03, SHEET 8 OF 9, AS NEEDED, PERFORM THE FOLLOWING IN A CONTINUOUS MANNER: (BY THE END OF THE WORK DAY, TRAFFIC SHALL BE SHIFTED ONTO -XL- IN 2 LANE / 2 WAY PATTERN - SEE SHEETS TMP-7 AND TMP-8)
 A) BEGIN PLACEMENT OF TEMPORARY PAVEMENT MARKING ON EB -XL-.
 B) CONSTRUCT -XL- TIE-INS TO EB US 70 AND SHIFT EB TRAFFIC ONTO TEMPORARY -XL-. COMPLETE PLACEMENT OF TEMPORARY PAVEMENT MARKING AND REMOVE CONFLICTING PAVEMENT MARKING.

PHASE II

STEP 1 BEHIND TEMPORARY GUARDRAIL OR PCB, CONSTRUCT THE FOLLOWING: (SEE SHEETS TMP-10, TMP-11, ROADWAY PLANS AND PAVEMENT MARKING PLANS)
 - -L- UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKINGS AND TEMPORARY MARKERS IN FINAL PATTERN.
 - RETAINING WALL ALONG SR 2532 (W EDWARDS ST).

STEP 2 USING RSD 1101.03, SHEET 8 OF 9, PLACE TEMPORARY PAVEMENT MARKING, REMOVE CONFLICTING PAVEMENT MARKING AND SHIFT US 70 EB TRAFFIC ONTO THE OUTSIDE LANE OF US 70 EB AND -L-. (SEE SHEETS TMP-12 AND TMP-13)

PHASE III

STEP 1 USING RSD 1101.02, SHEETS 3 AND 10 OF 15, PERFORM THE FOLLOWING: (SEE SHEETS TMP-12 AND TMP-13)
 - REMOVE -XL- AND BEGIN PLACEMENT OF PAVEMENT MARKING ON THE INSIDE LANES ORIGINAL ON US 70 EB AND WB.
 - REMOVE TEMPORARY GUARDRAIL INSTALLED PHASE IB, STEP 1, AND RETURN GUARDRAIL ON US 70 WB TO ORIGINAL CONFIGURATION.

USING RSD 1101.02, SHEET 1 OF 15, MAY PERFORM THE FOLLOWING: (SEE TMP-12 AND TMP-13)

- A) REMOVE PCB FROM SR 2532 (W EDWARDS ST) PLACED IN PHASE IB, STEP 1.
- B) REMOVE TEMPORARY PAVEMENT FROM SR 2532 (W EDWARDS ST) INSTALLED IN PHASE IB, STEP 1, AND RESTORE SHOULDER TO ORIGINAL.

NOTE: PROTECT EXPOSED END OF EXISTING PCB AND GUARDRAIL WITH TMA, OR AS DIRECTED BY THE ENGINEER.

STEP 2 USING RSD 1101.03, SHEET 8 OF 9, REMOVE ASPHALT ISLAND AND COMPLETE PLACEMENT OF PAVEMENT MARKINGS ORIGINAL ON INSIDE LANE OF US 70 WB. (SEE SHEETS TMP-12 AND TMP-13)

STEP 3 USING RSD 1101.02, SHEET 3 OF 15, SHIFT US 70 WB TRAFFIC TO INSIDE LANE AND RESTORE PAVEMENT MARKINGS TO ORIGINAL ON OUTSIDE LANE OF US 70 WB AND OPEN US 70 WB TO 2 LANE / 1 WAY PATTERN.

STEP 4 USING RSD 1101.02, SHEET 3 OF 15, COMPLETE RESTORE OF PAVEMENT MARKINGS TO ORIGINAL ON US 70 EB. SIMULTANEOUSLY, SHIFT US 70 EB TRAFFIC ONTO 2 LANE / 1 WAY PATTERN, PLACE TEMPORARY TRAFFIC SIGNAL ON FLASH.

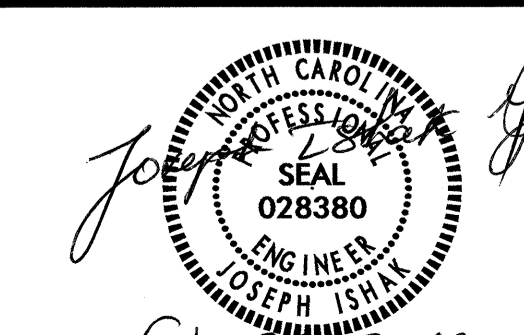
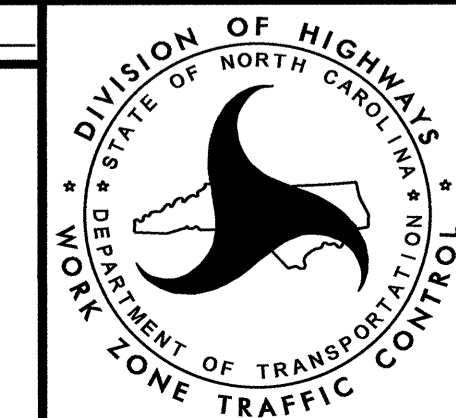
STEP 5 USING RSD 1101.02, SHEET 3 OF 15, PERFORM THE FOLLOWING:
 - PLACE FINAL LAYER OF SURFACE COURSE ON -L- AND PLACE FINAL PAVEMENT MARKINGS AND MARKERS IN FINAL PATTERN. (SEE PAVEMENT MARKING PLANS)
 - INSTALL ORIGINAL TRAFFIC SIGNAL AND REMOVE TEMPORARY SIGNAL.

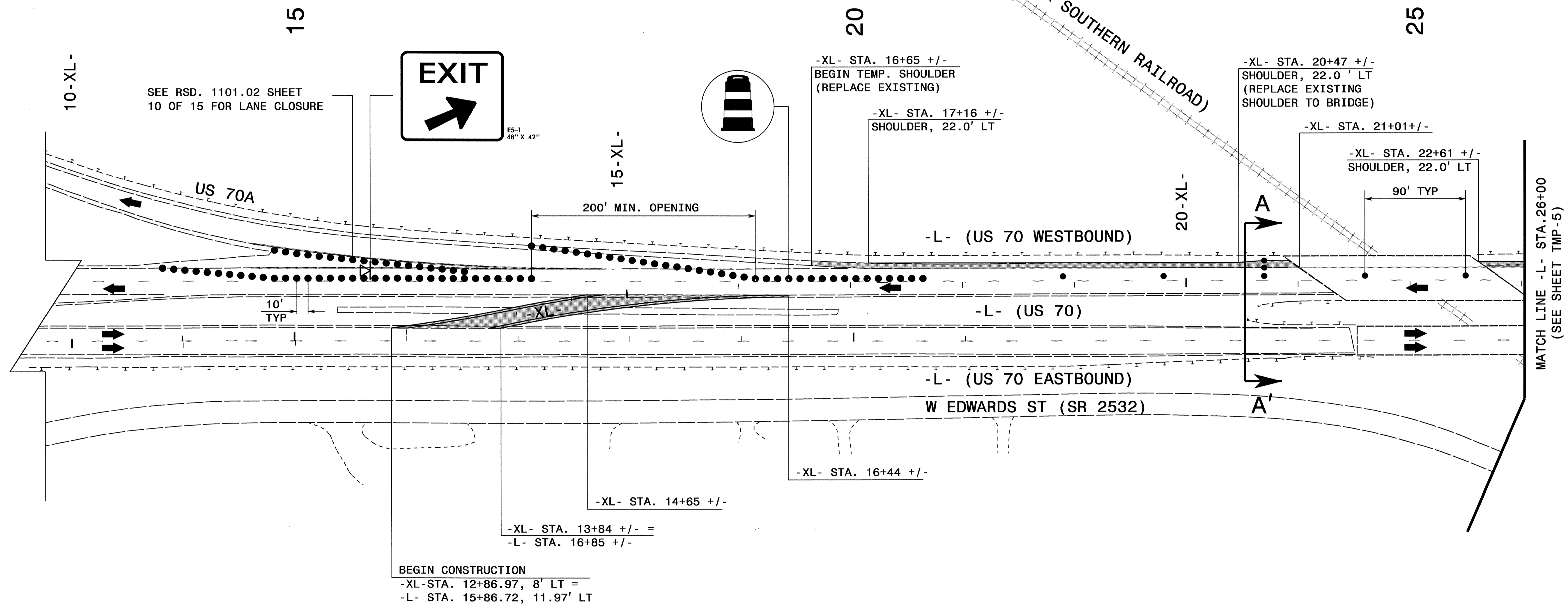
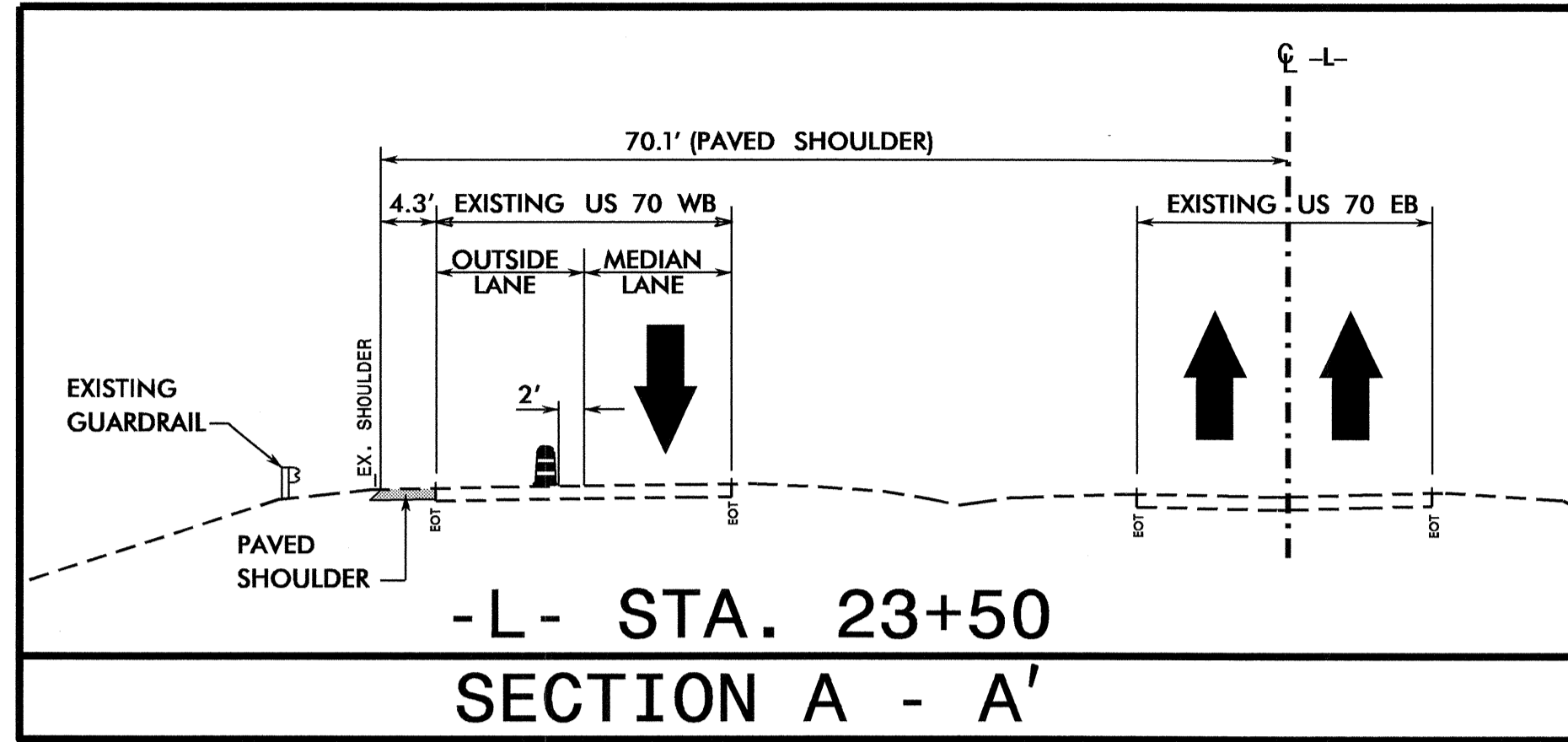
USING RSD 1101.02, SHEET 1 OF 15, COMPLETE THE FOLLOWING: (SEE TMP-12 AND TMP-13)

- A) REMOVE PCB FROM SR 2532 (W EDWARDS ST) PLACED IN PHASE IB, STEP 1.
- B) REMOVE TEMPORARY PAVEMENT FROM SR 2532 (W EDWARDS ST) INSTALLED IN PHASE IB, STEP 1, AND RESTORE SHOULDER TO ORIGINAL.

NOTE: PROTECT EXPOSED END OF EXISTING PCB AND GUARDRAIL WITH TMA, OR AS DIRECTED BY THE ENGINEER.

STEP 6 REMOVE ALL TRAFFIC CONTROL DEVICES.

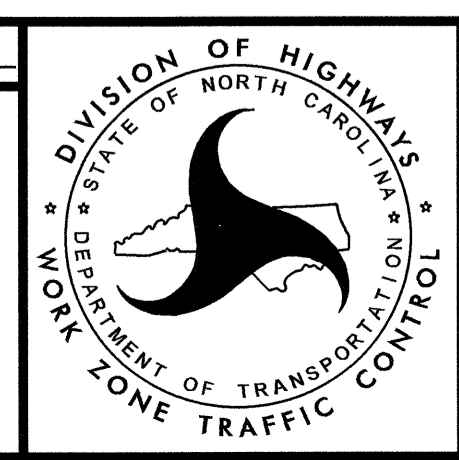
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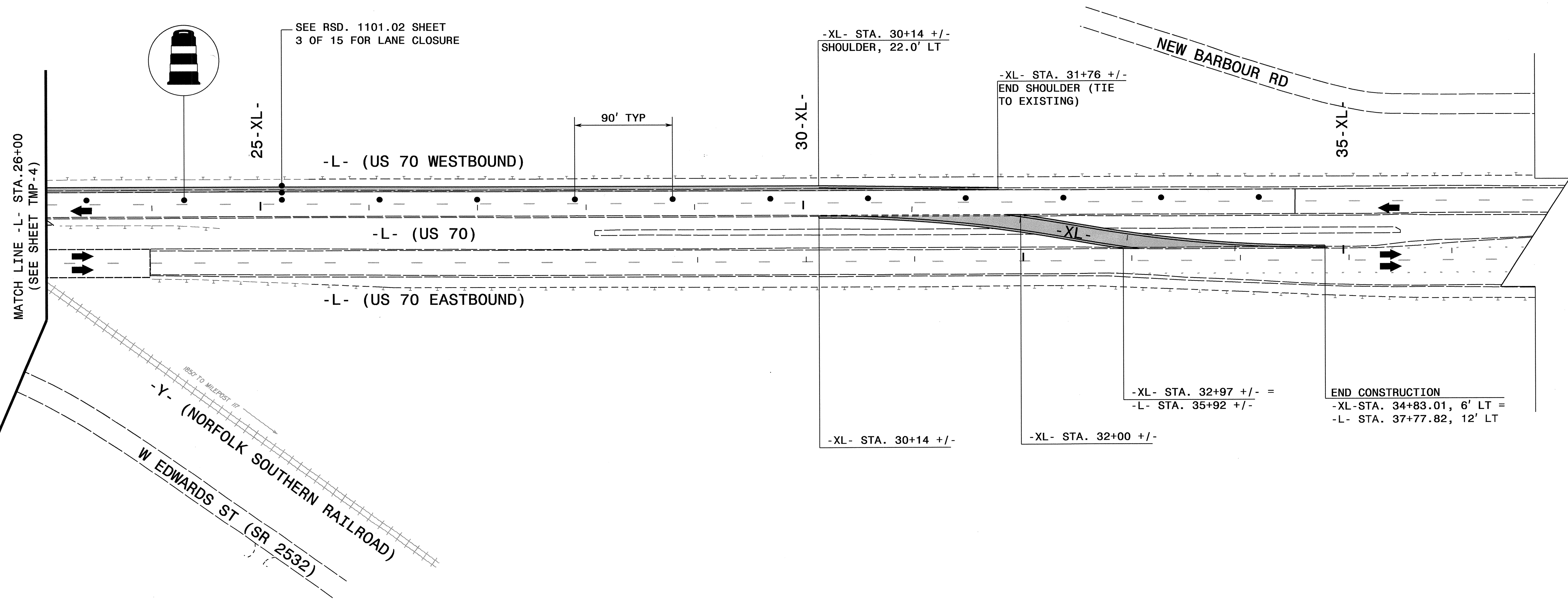


PHASE IA
 (Sheet 1 of 2)



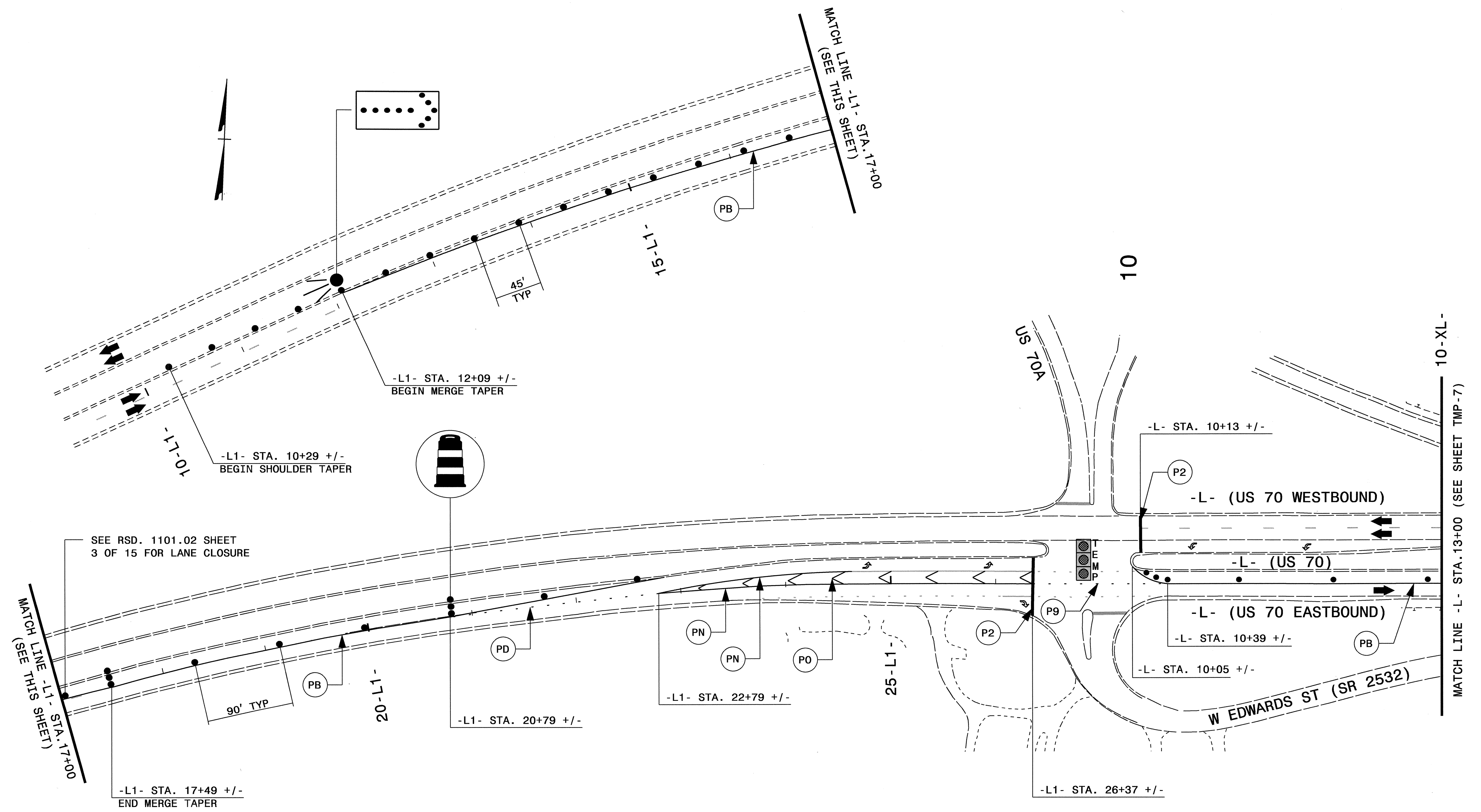
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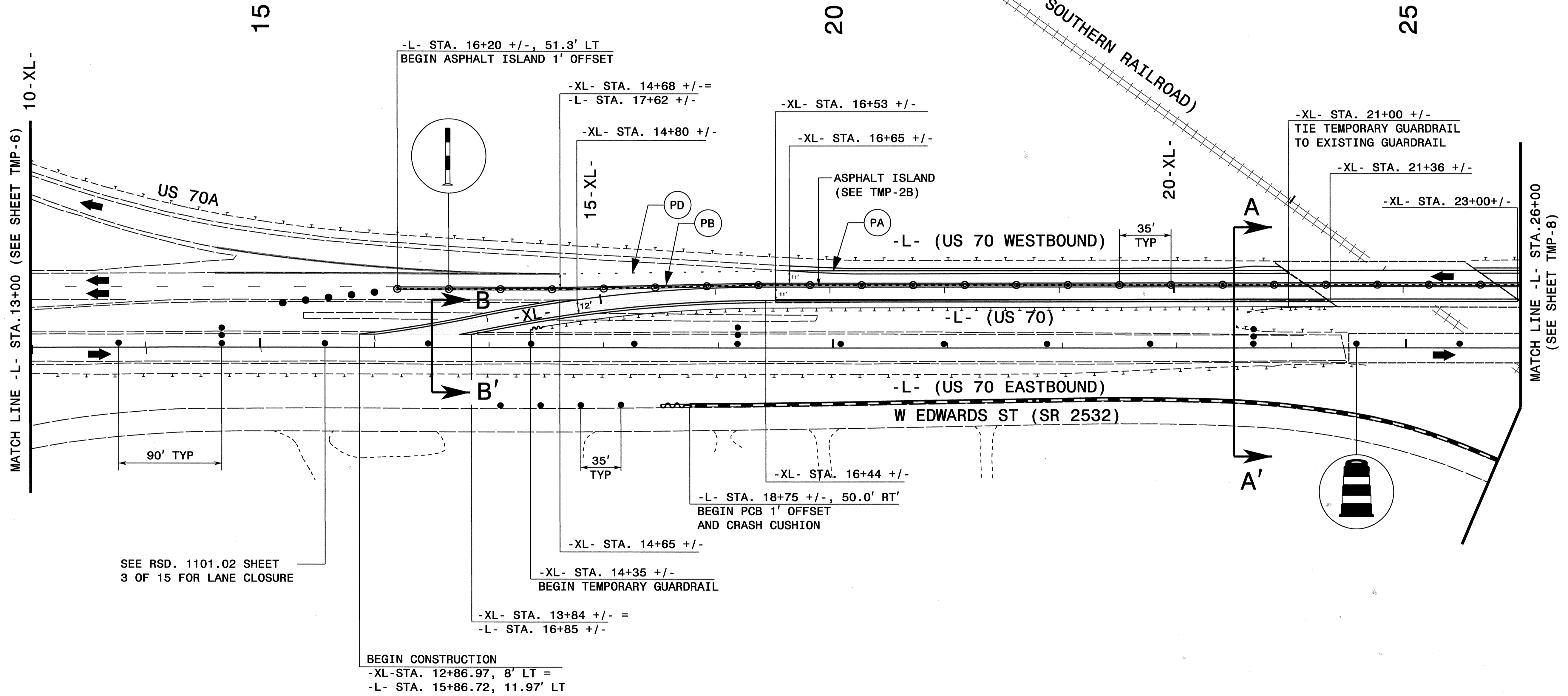
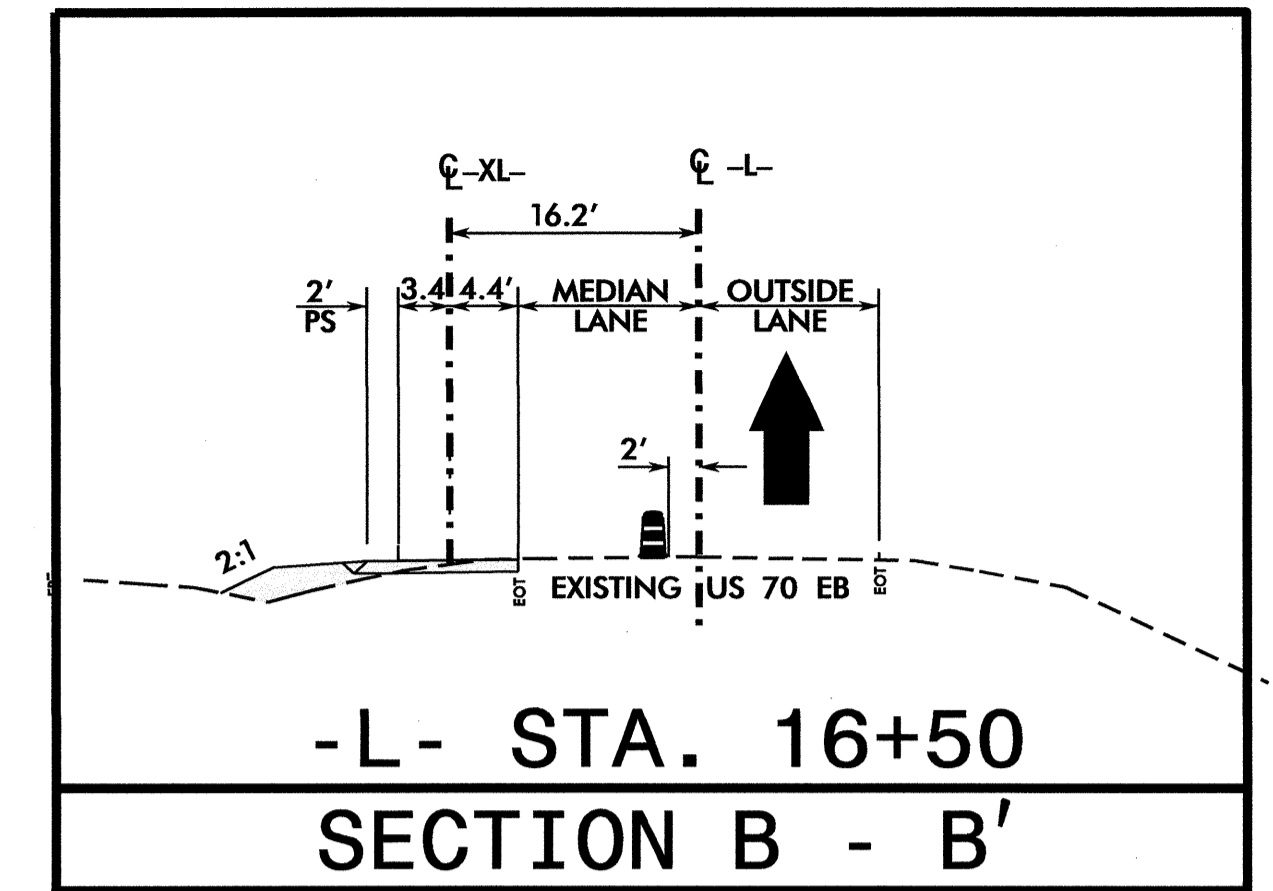
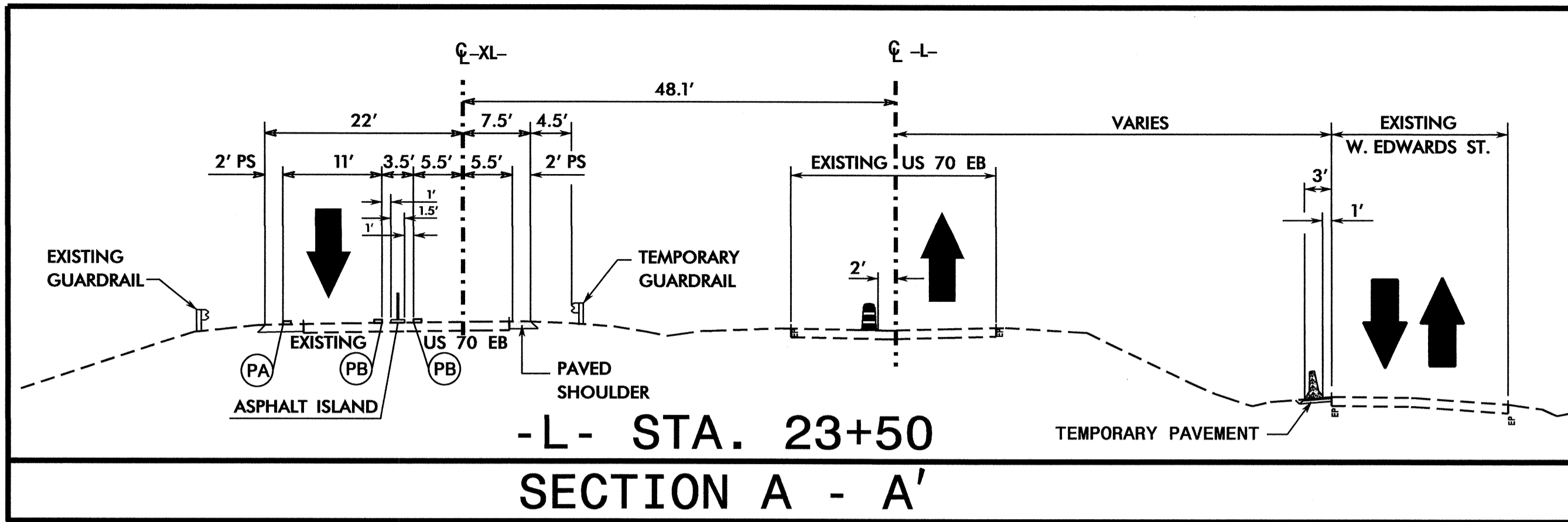
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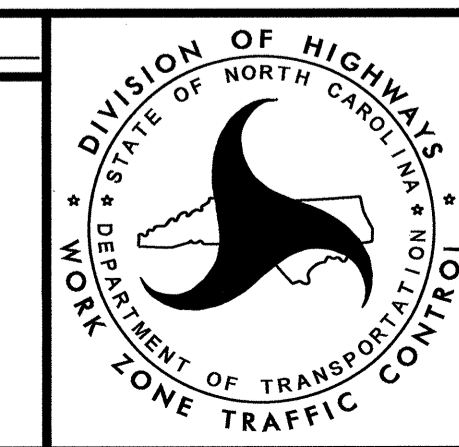


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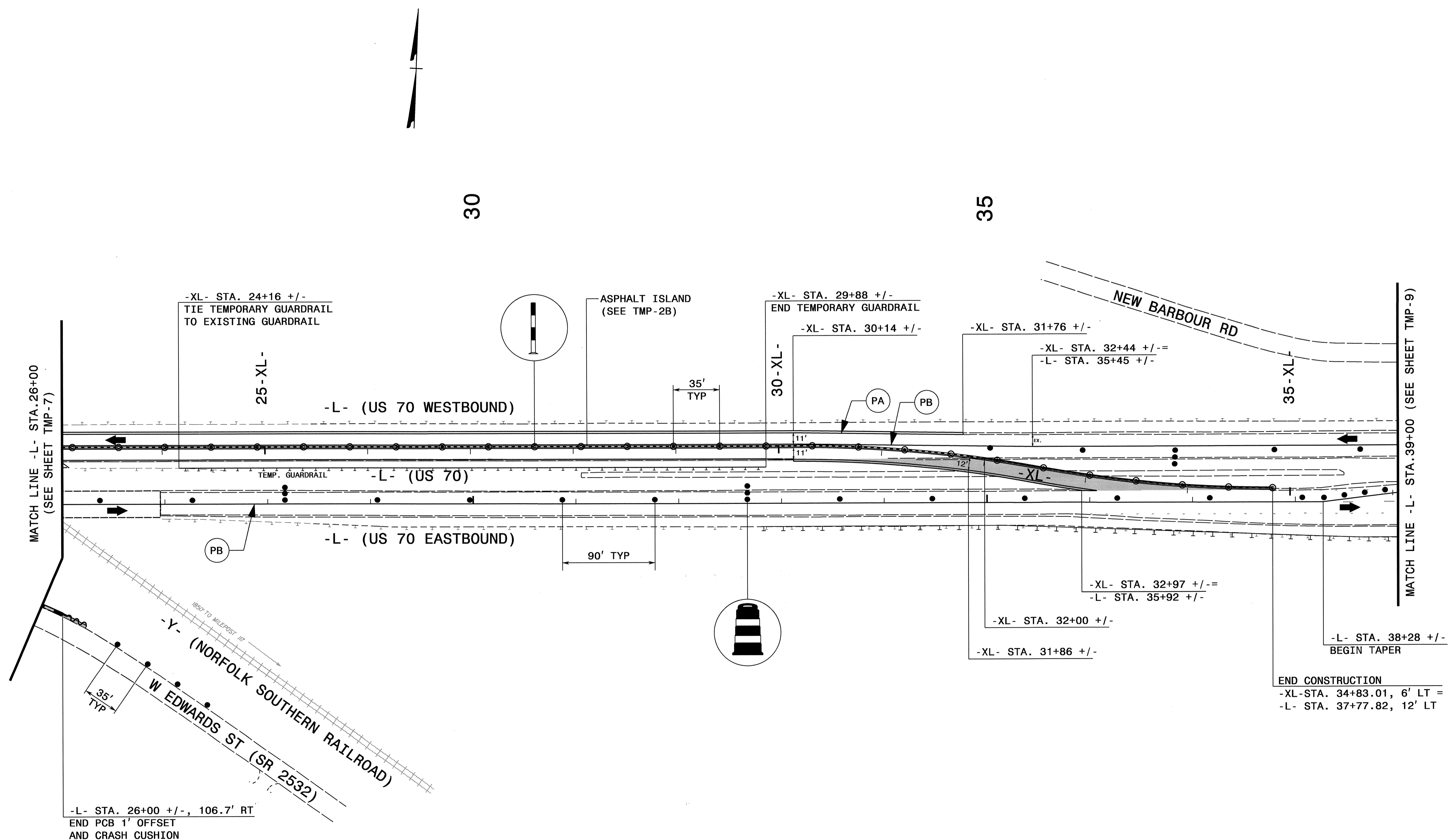
APPROVED: _____ DATE: _____

Joseph A. Isham
No. 028380
SEAL
ENGINEER
JOSEPH ISHAM

Harel 04/12/12



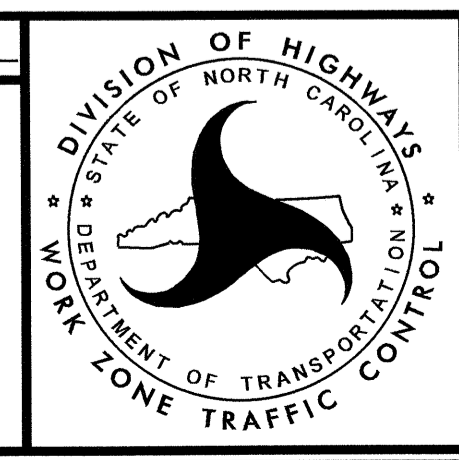
PHASE IB
(Sheet 2 of 4)



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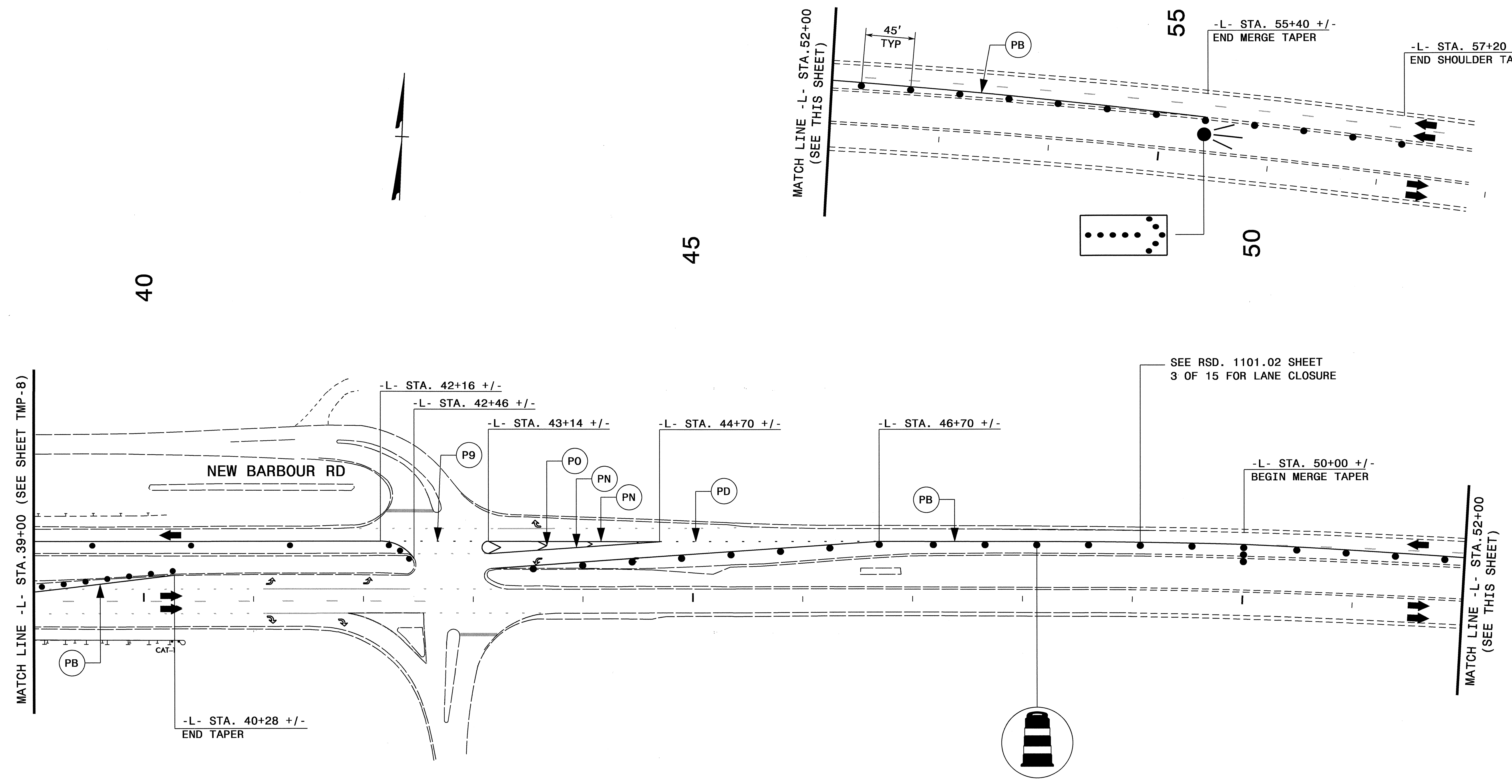
APPROVED: _____ DATE: _____

JOSEPH ISHAK
 ENGINEER
 028380
 FEB 29 2012



PHASE IB
(Sheet 3 of 4)

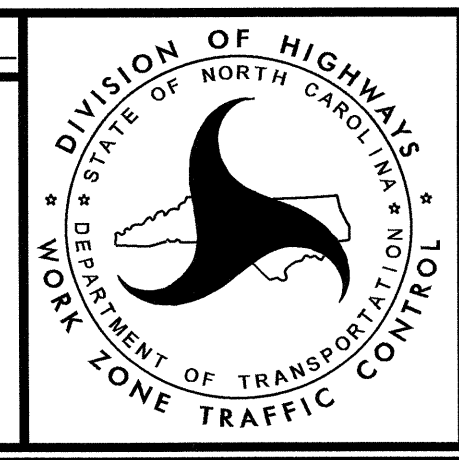
END CONSTRUCTION
 -XL-STA. 34+83.01, 6' LT =
 -L- STA. 37+77.82, 12' LT



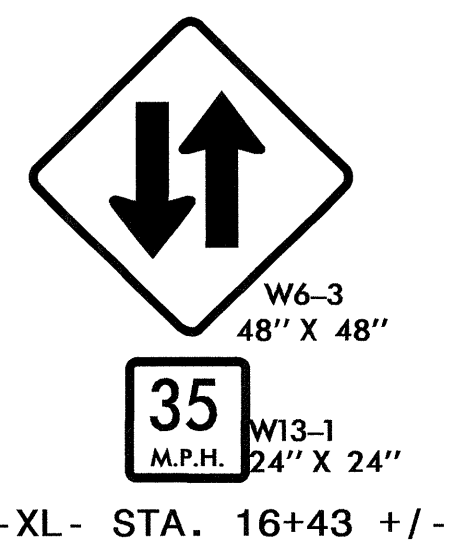
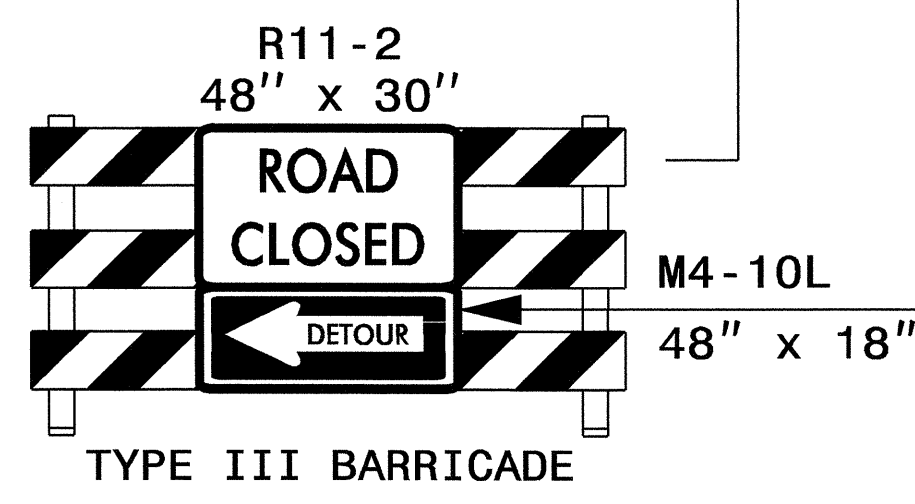
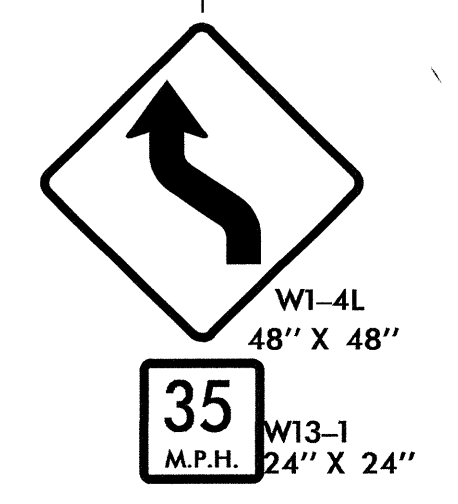
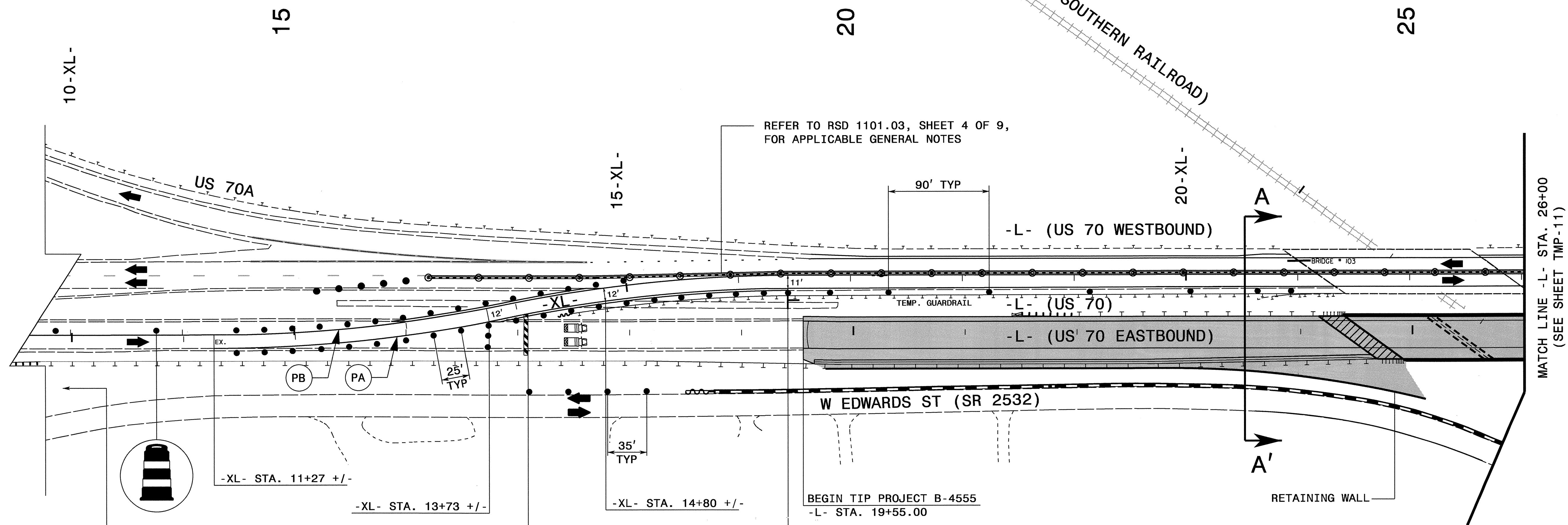
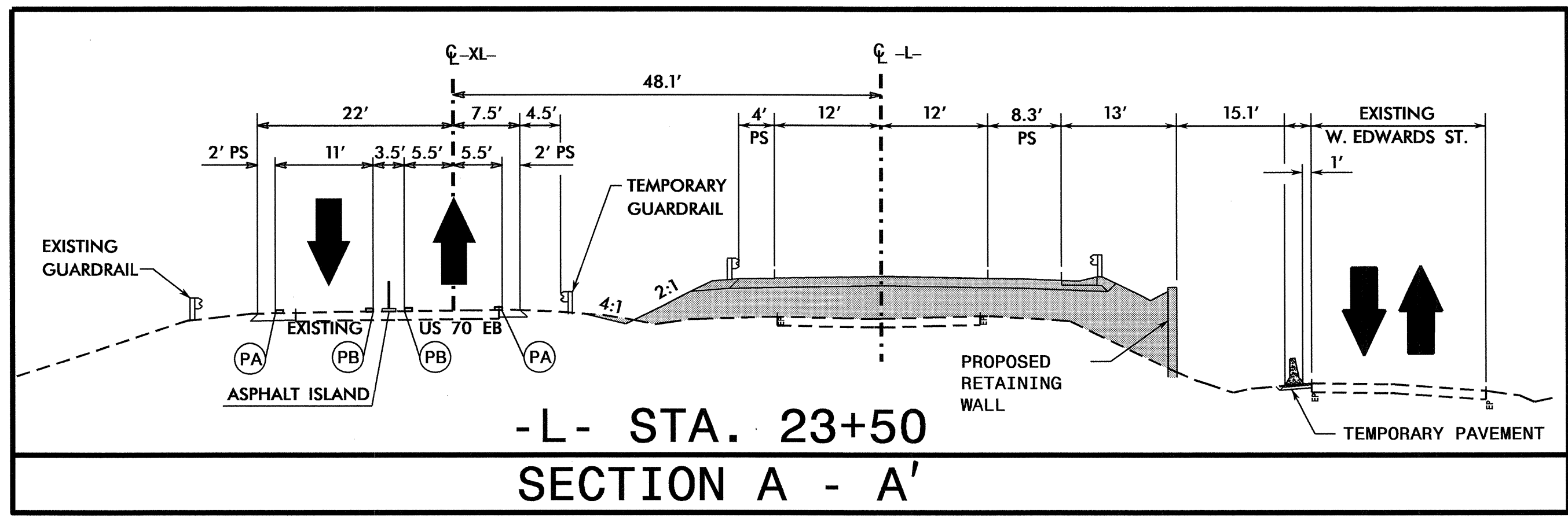
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 sbjennings AT TE244731

APPROVED: _____ DATE: _____

Feb 29, 2012



PHASE IB
 (Sheet 4 of 4)



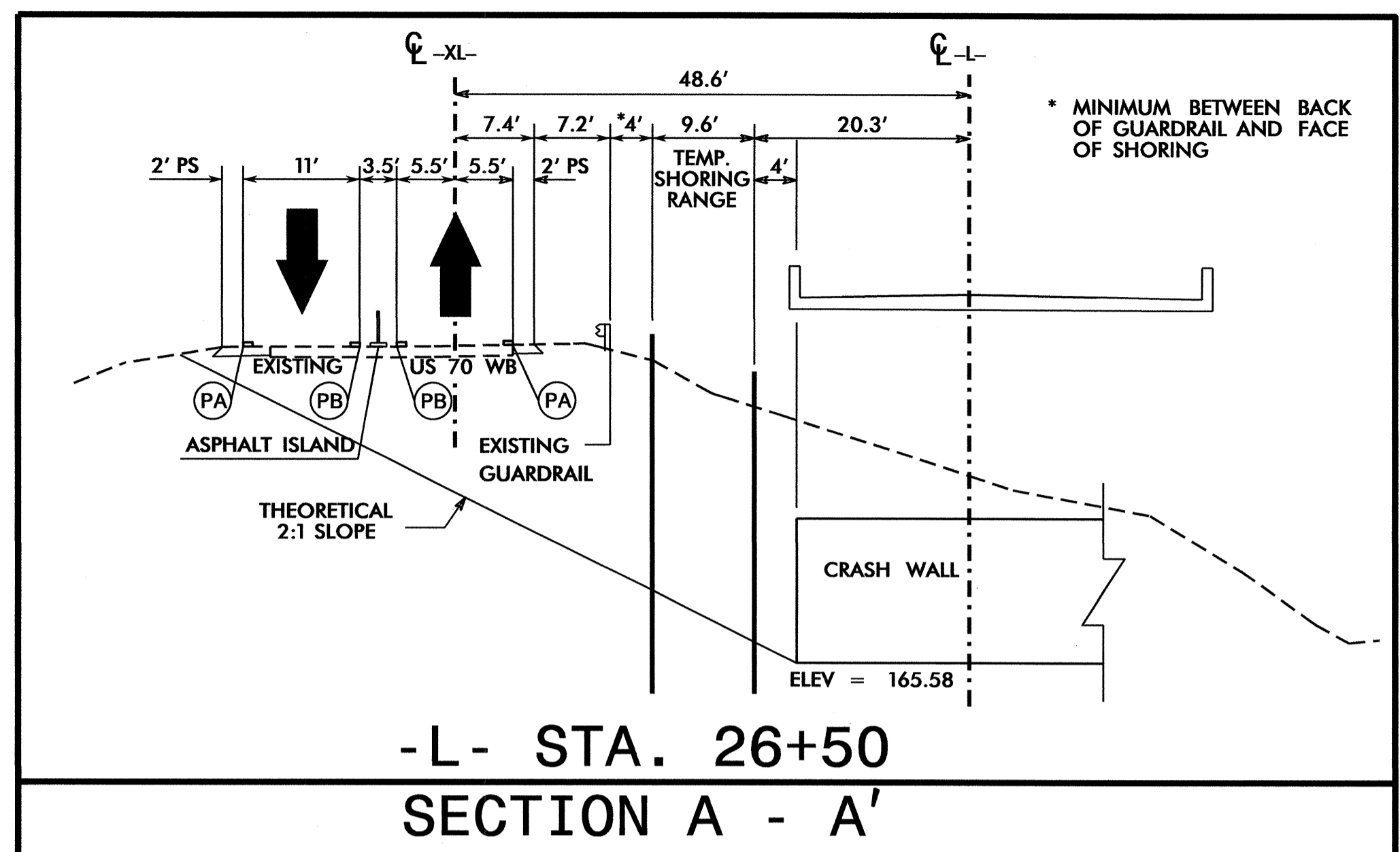
APPROVED: _____ DATE: _____

Feb 29, 2012

PHASE II
(Sheet 1 of 2)

28-FEB-2012 15:05 \\DOT\DFSROOT\PROJ\TIP\Projects-B\B4555\TrafficControl\CP\Final\TMP-B-4555_TC_TMP-10.dgn sbjennings AT TE244731

TEMPORARY SHORING NOTES



TEMPORARY SHORING NO.1

FOR TEMPORARY SHORING, AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

DESIGN TEMPORARY SHORING FROM STATION 26+00, 20.3 FT. TO 29.9 FT. LEFT OF -L- TO STATION 27+35, 20.3 FT. TO 29.9 FT. LEFT OF -L- FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

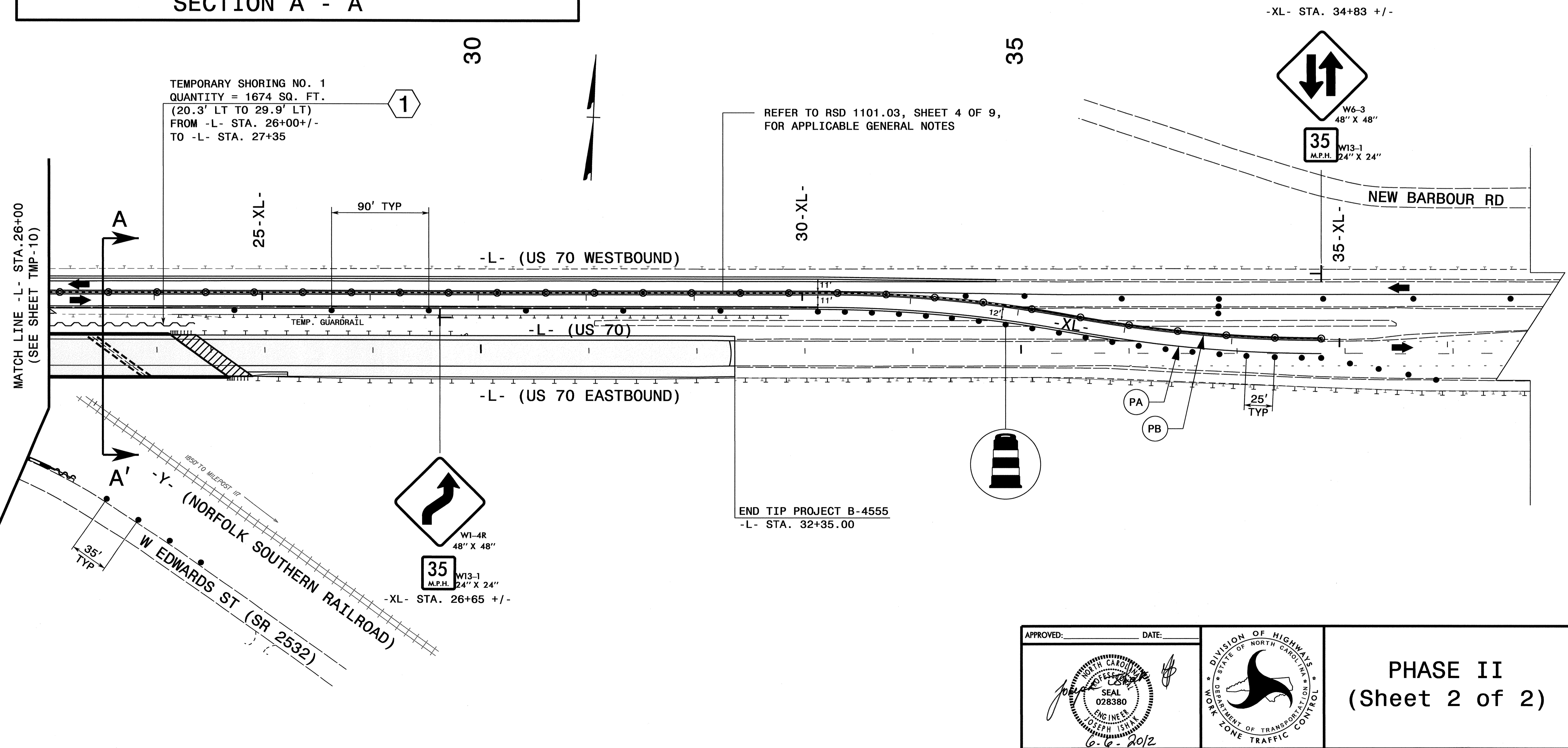
- UNIT WEIGHT (γ) = 120 LB/CF
- FRICTION ANGLE (ϕ) = 30 DEGREES
- COHESION (c) = 0 LB/SF
- GROUNDWATER ELEVATION = 167 FT

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 26+00, 20.3 FT. TO 29.9 FT. LEFT OF -L- TO STATION 27+35, 20.3 FT. TO 29.9 FT. LEFT OF -L-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

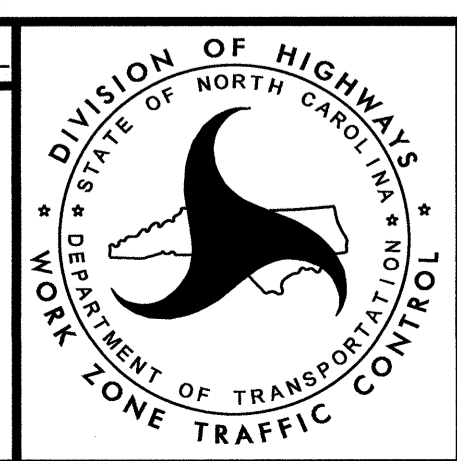
DO NOT USE A TEMPORARY WALL FOR THE TEMPORARY SHORING FROM STATION 26+00, 20.3 FT. TO 29.9 FT. LEFT OF -L- TO STATION 27+35, 20.3 FT. TO 29.9 FT. LEFT OF -L-.

DO NOT USE CANTILEVER OR BRACED SHORING FOR TEMPORARY SHORING FROM STATION 26+00, 20.3 FT. TO 29.9 FT. LEFT OF -L- TO STATION 27+35, 20.3 FT. TO 29.9 FT. LEFT OF -L-.

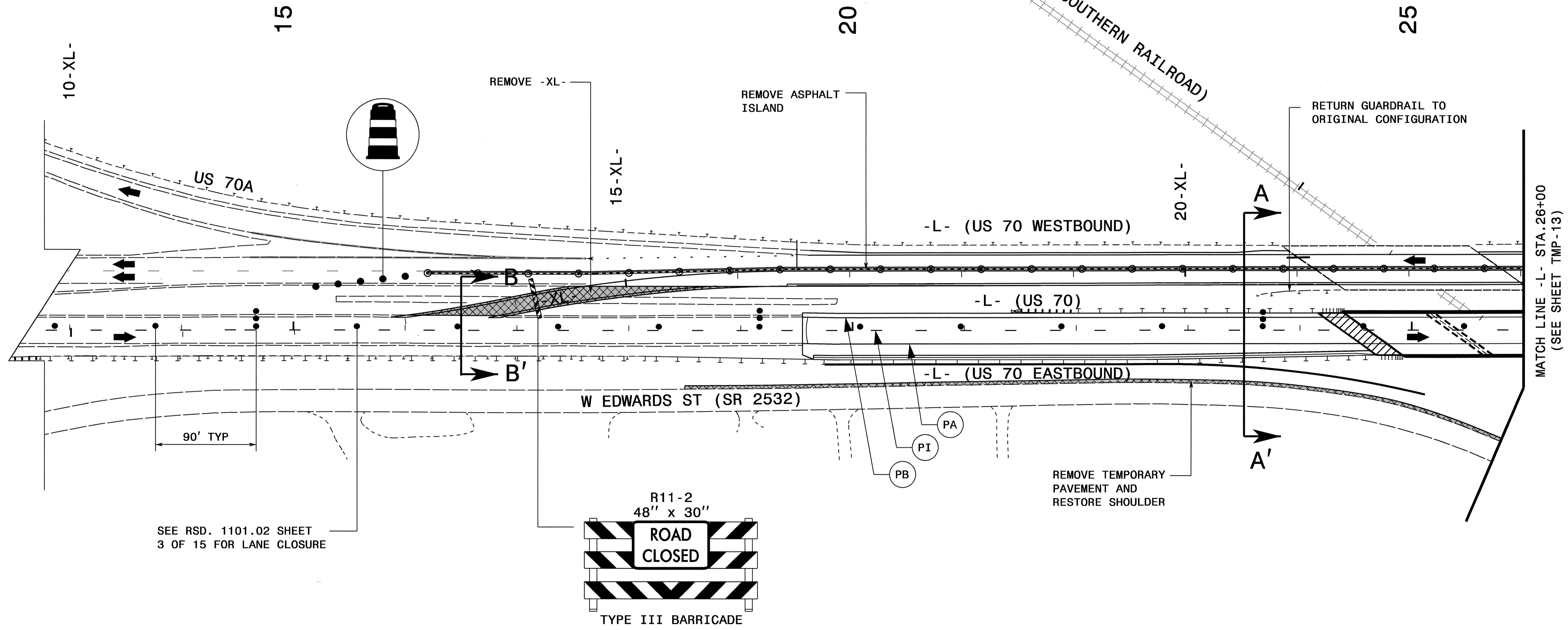
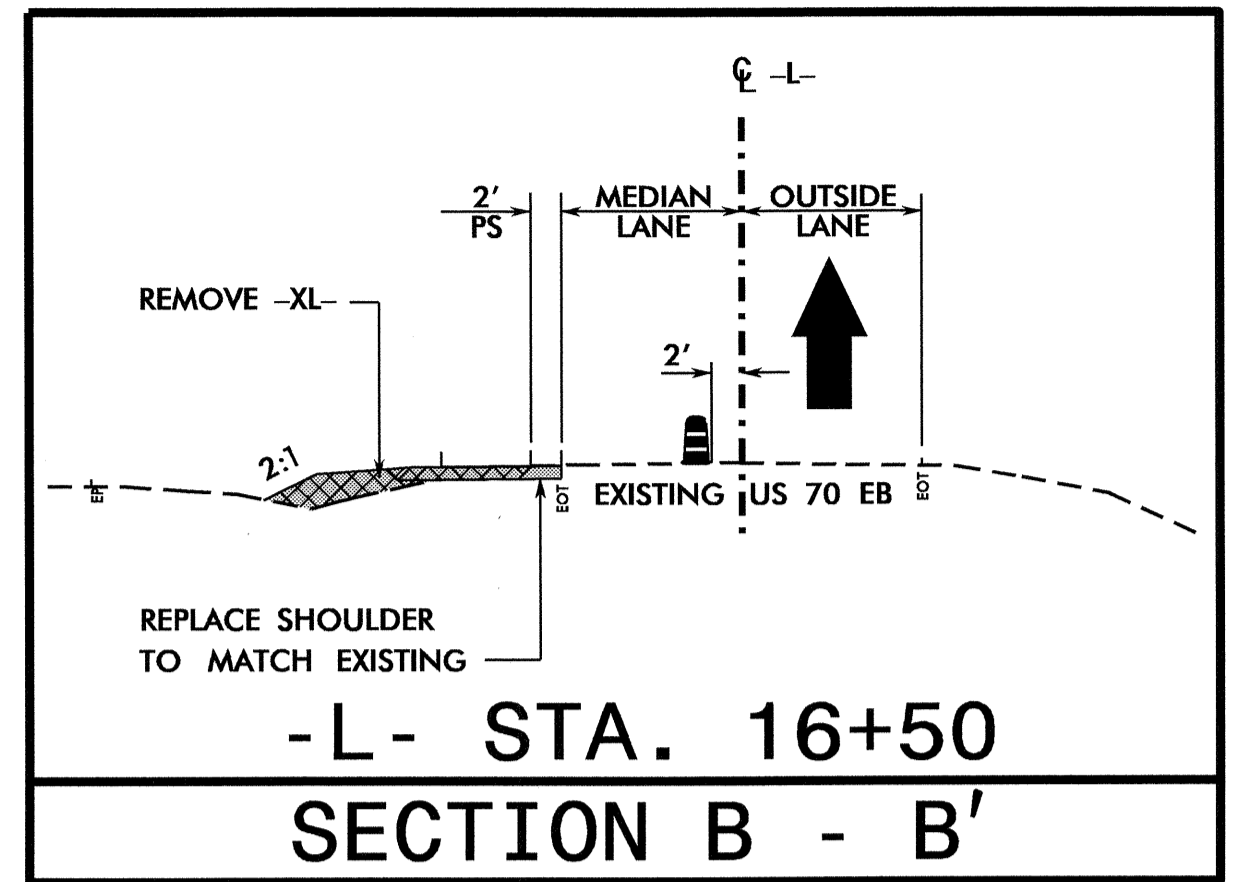
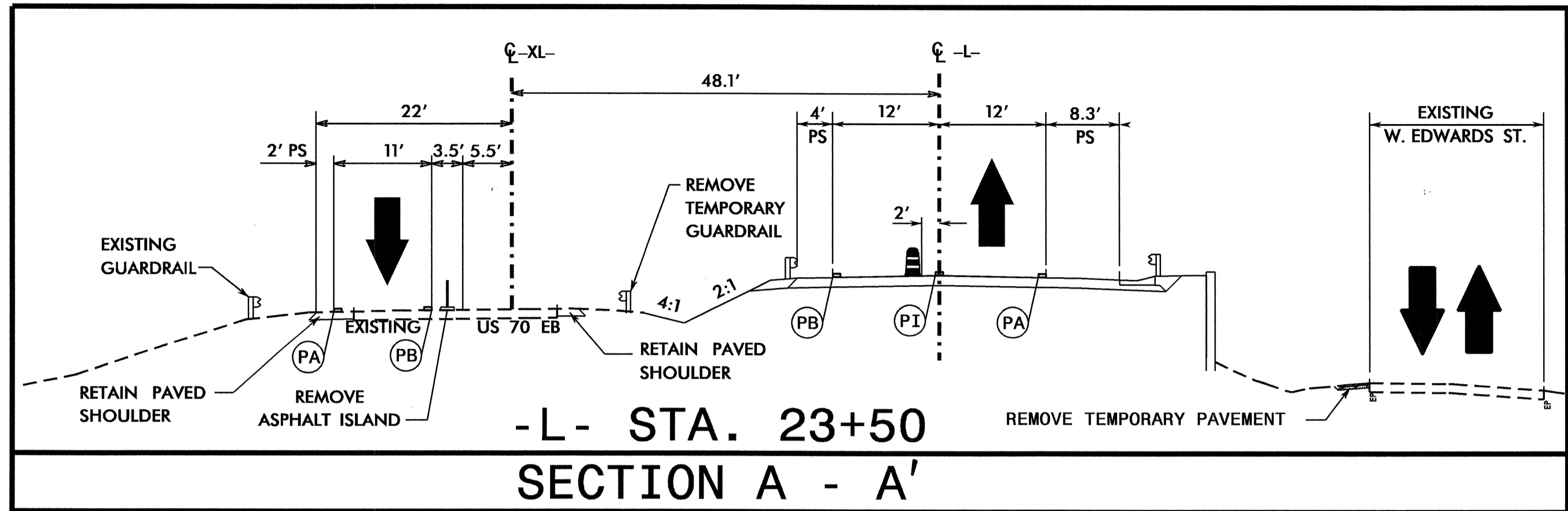


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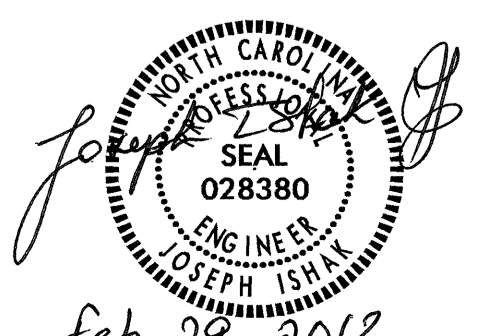

APPROVED: _____ DATE: _____

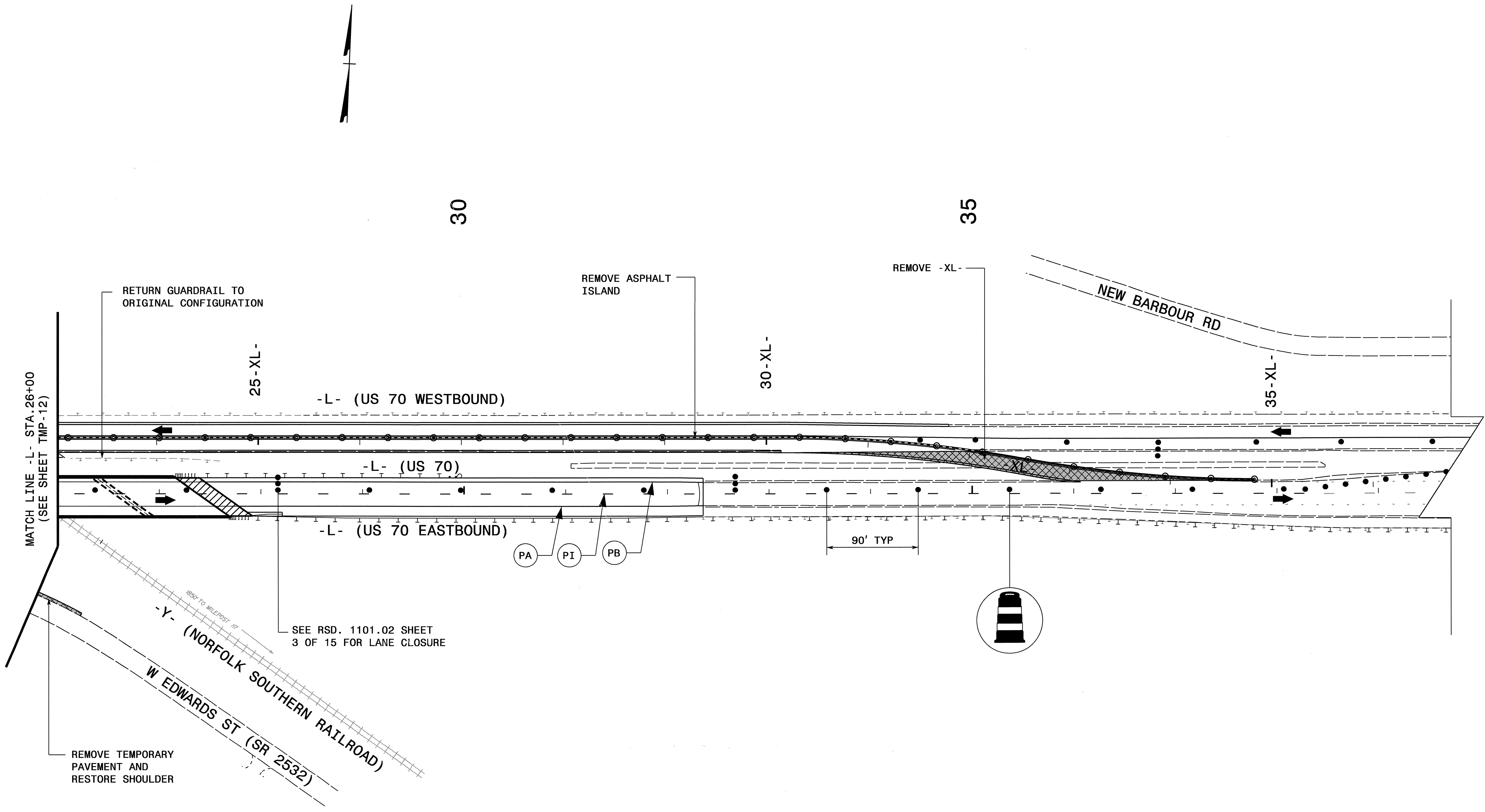


PHASE II
(Sheet 2 of 2)



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 sbjennings AT TE244731

APPROVED: _____ DATE: _____  Feb 29, 2012		PHASE III (Sheet 1 of 2)
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28-FEB-2012 15:07
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APPROVED:	DATE:		PHASE III (Sheet 2 of 2)