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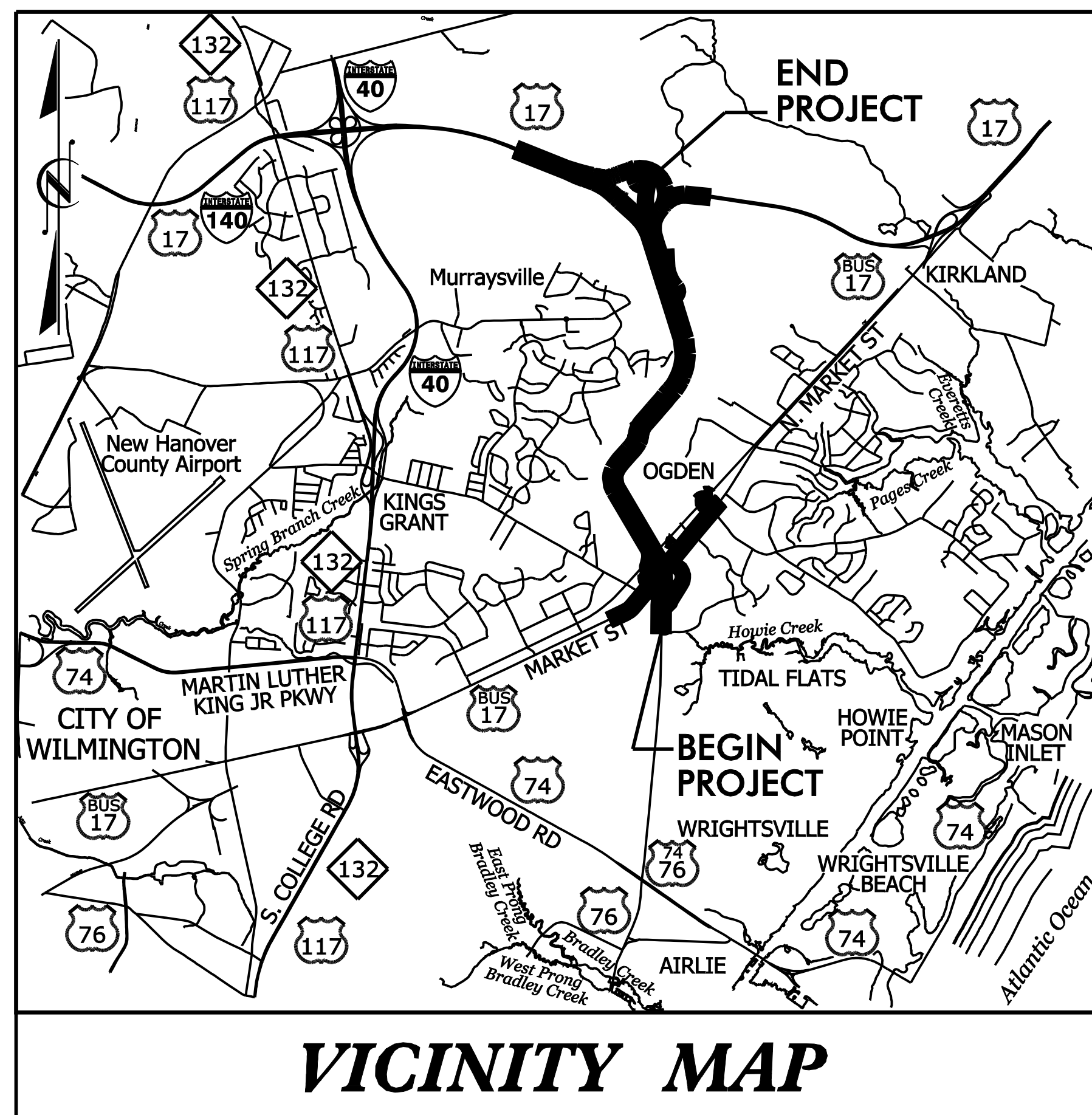
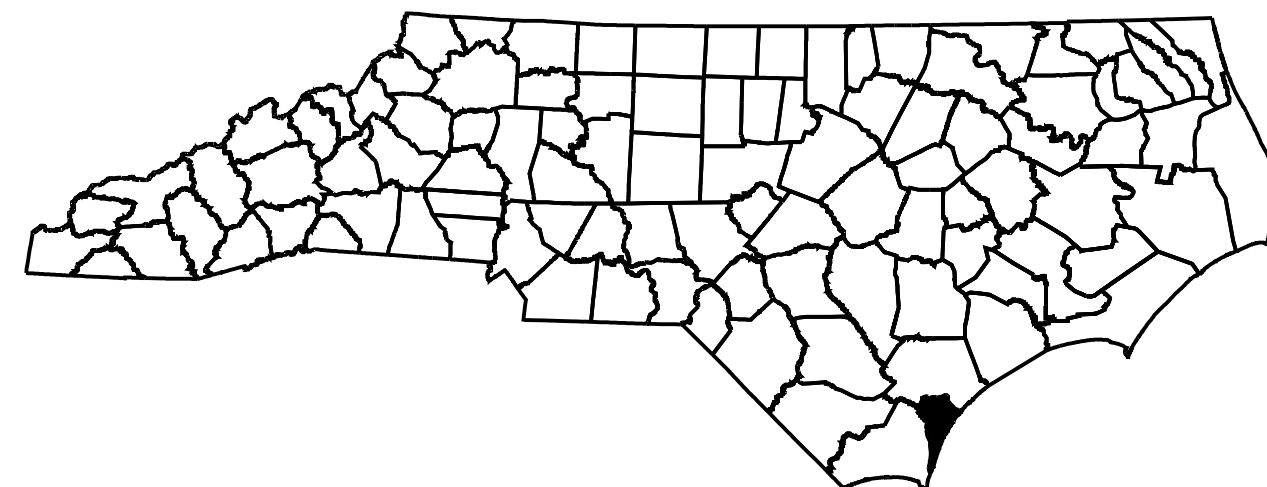
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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

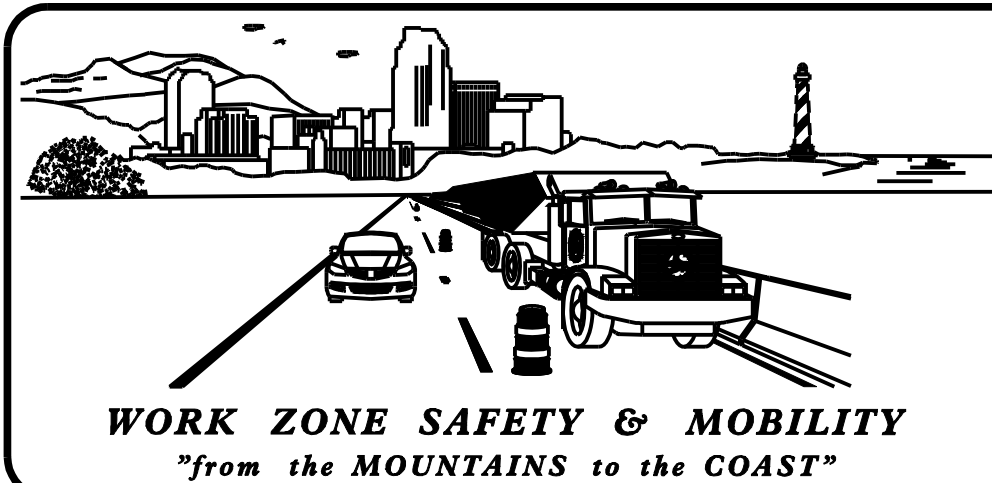
**TRANSPORTATION MANAGEMENT PLAN**

**NEW HANOVER COUNTY**



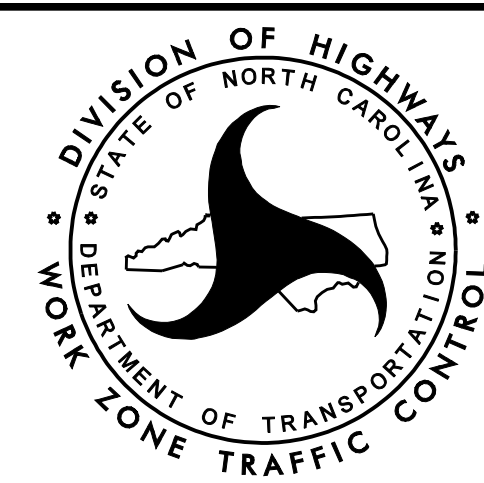
**VICINITY MAP**

**LOCATION: SR 1409 (MILITARY CUTOFF ROAD) TO US 17 IN WILMINGTON**  
**TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE**



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  
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TRAFFIC CONTROL DESIGN ENGINEER



**INDEX OF SHEETS**

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Prepared In the Office of:  
**PROGRESSIVE DESIGN GROUP, INC.**  
ENGINEERS • CONSULTANTS

APPROVED: *Jim Gray*  
DATE: 6/26/2017

SEAL

**TIP PROJECT: U-4751**

SHEET NO.  
TMP-1

# 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:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE 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	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
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.
- TEMP. SHORING
- WORK AREA
- ON-GOING WORK
- REMOVAL
- TEMPORARY PAVEMENT

## PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

## 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

## PAVEMENT MARKERS

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

## PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

## TEMPORARY PAVEMENT MARKING SCHEDULE

<u>PAVEMENT MARKINGS PAINT(4")</u>	<u>PAINT(8")</u>
PA WHITE EDGELINE	PN WHITE SOLID LANE LINE
PB YELLOW EDGELINE	PO WHITE DIAGONAL
PC 10 FT. WHITE SKIP	PP YELLOW DIAGONAL
PD 3 FT. - 9 FT./SP WHITE MINISKIP	PS WHITE GORELINE
PE WHITE SOLID LANE LINE	
PH YELLOW SINGLE CENTER	<u>PAINT(12")</u>
PI YELLOW DOUBLE CENTER	PS WHITE GORELINE
<u>PAVEMENT MARKINGS PAINT(6")</u>	
P6 WHITE EDGELINE (6")	<u>PAINT(24")</u>
P7 YELLOW EDGELINE (6")	P2 WHITE STOPBAR
PJ 10 FT. WHITE SKIP (6")	
	<u>MARKING SYMBOLS</u>
	QA LEFT TURN ARROW
	QB RIGHT TURN ARROW
	QC STRAIGHT ARROW
	QE COMBO.STRAIGHT/RIGHT
	QI ALPHANUMERIC CHARACTER

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PLAN PREPARED IN THE OFFICE OF: <b>PROGRESSIVE</b> DESIGN GROUP, INC.  ENGINEERS • CONSULTANTS	APPROVED: <i>Tim Are</i> DATE: 6/26/2017 		<b>ROADWAY STANDARD DRAWINGS &amp; LEGEND</b>
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# MANAGEMENT STRATEGIES

THE PROJECT WILL BE CONSTRUCTED AWAY FROM TRAFFIC WHEREVER POSSIBLE. WHERE TRAFFIC IS AFFECTED, A COMBINATION OF LANE CLOSURES AND FLAGGERS WILL BE USED AS NECESSARY. TEMPORARY PORTABLE CONCRETE BARRIER WILL BE USED TO PROTECT TRAFFIC FROM WORK AREAS WHERE POSSIBLE. SHORING WILL BE USED AS NEEDED FOR STRUCTURE CONSTRUCTION ADJACENT TO TRAVEL LANES.

ROAD CLOSURES WILL BE LIMITED AS MUCH AS POSSIBLE. WHEN A ROAD CLOSURE IS REQUIRED AN APPROVED OFFSITE DETOUR WILL BE USED.

## GENERAL NOTES

### TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- MILITARY CUTOFF	6:00A.M.-8:00P.M. MONDAY TO SUNDAY
-Y- GORDON RD	6:00A.M.-8:00P.M. MONDAY TO SUNDAY
-Y1- US 17 BUSINESS	6:00A.M.-8:00P.M. MONDAY TO SUNDAY
-Y8- US 17/I-140	7:00A.M.-9:00A.M. MONDAY TO FRIDAY 4:00P.M.-6:00P.M. MONDAY TO FRIDAY 8:00A.M.-8:00P.M. SATURDAY TO SUNDAY
-Y13- MIDDLE SOUND LOOP RD	6:00A.M.-8:00P.M. MONDAY TO SUNDAY
ALL OTHER ROADS	7:00A.M.-9:00A.M. AND 4:00P.M.-6:00P.M. MON-FRI

### HOLIDAY & HOLIDAY WEEKEND LANE CLOSURE TIME RESTRICTIONS

- 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 AND 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN TO 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. JULY 3RD AND 8:00 P.M. JULY 5TH. 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 8:00 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 DAY.
- FOR THE WEEK OF THE ANNUAL NORTH CAROLINA AZALEA FESTIVAL IN APRIL, DO NOT PERFORM ANY WORK BETWEEN THE HOURS OF 6:00 AM THURSDAY BEFORE THE FESTIVAL THROUGH 7:00 PM MONDAY AFTER THE FESTIVAL WITHOUT THE PRIOR APPROVAL OF THE ENGINEER AND THE CITY OF WILMINGTON TRAFFIC ENGINEER. CALL (910) 794-4650 OR VISIT THE FESTIVAL'S WEBSITE AT [WWW.NCAZALEAFESTIVAL.ORG](http://WWW.NCAZALEAFESTIVAL.ORG) TO CONFIRM THE DATES OF THE FESTIVAL.

### ROAD CLOSURES

B) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION/ OPERATION
-Y1- US 17 BUSINESS	MONDAY-SUNDAY	5:00 A.M.-12:00 A.M. ONSITE DETOUR FOR GIRDER INSTALLATION
-Y2- OGDEN PARK DR	MONDAY-SUNDAY	FOR GIRDER INSTALLATION
-Y8- US 17/I-140	MONDAY-SUNDAY	5:00 A.M.-12:00 A.M. 30 MINUTE CLOSURE FOR GIRDER INSTALLATION

C) 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

D) 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.

E) 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.

F) 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.

G) 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.

H) 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.

### 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 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.

J) 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

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 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

N) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

### TRAFFIC BARRIER

P) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT 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 TRANSPORTATION MANAGEMENT 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 TRANSPORTATION MANAGEMENT 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.

Q) 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 ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

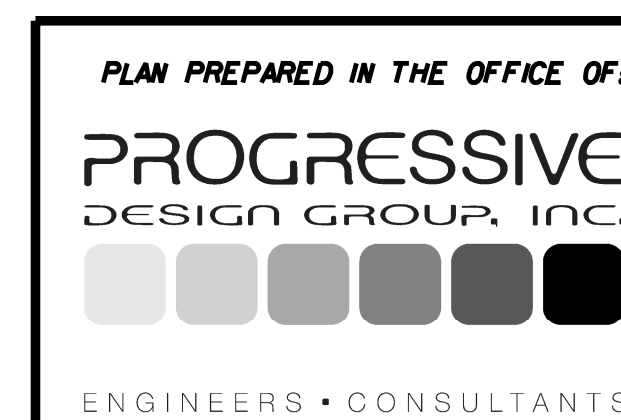
PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

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

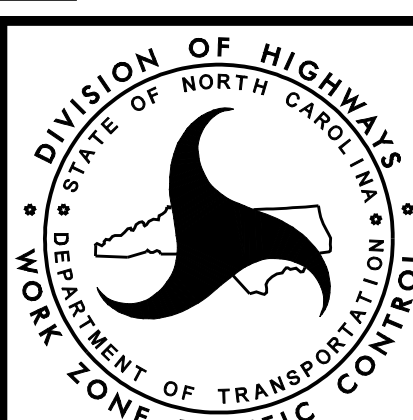
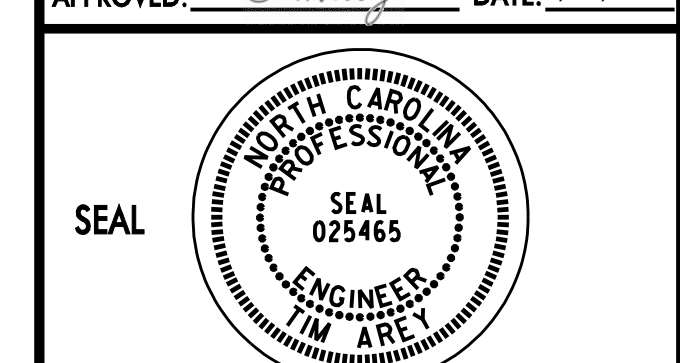
### TRAFFIC CONTROL DEVICES

R) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

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APPROVED: *Tim Are* DATE: 8/15/2017



TRANSPORTATION  
OPERATIONS PLAN

## GENERAL NOTES (CONT.)

- S) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### PAVEMENT MARKINGS AND MARKERS

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

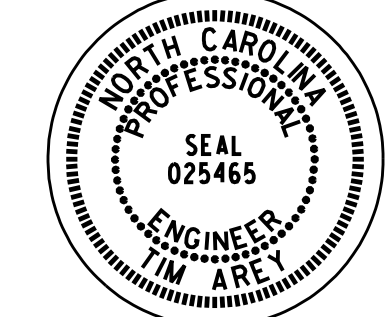
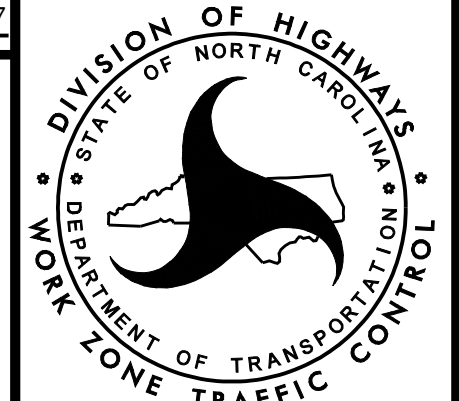
<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
ALL ROADS	TEMPORARY PAINT	TEMPORARY RAISED

- V) 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.
- W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- X) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

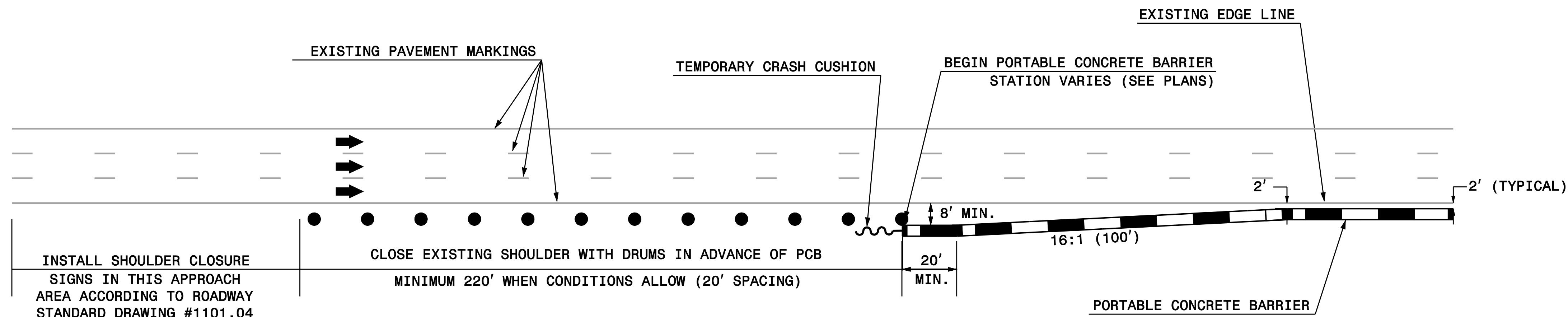
### MISCELLANEOUS

- Y) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- Z) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).
- AA) ONLY THE FOLLOWING SECTIONS OF ROADWAYS WILL BE ALLOWED TO BE UTILIZED FOR HAULING OPERATIONS AND/OR NEW LOCATION PROJECT ACCESS:
- -Y1- (MARKET STREET)
  - -Y5- (TORCHWOOD BLVD.) ONLY BETWEEN MARKET STREET AND JUST EAST OF BOW HUNTER DRIVE
  - -Y8- (I-140)

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<p style="font-size: small;">PLAN PREPARED IN THE OFFICE OF:</p> <p style="text-align: center;"><b>PROGRESSIVE</b> DESIGN GROUP, INC.</p> <div style="display: flex; justify-content: center; gap: 5px;"> <div style="width: 15px; height: 15px; background-color: #ccc;"></div> <div style="width: 15px; height: 15px; background-color: #ccc;"></div> <div style="width: 15px; height: 15px; background-color: #ccc;"></div> <div style="width: 15px; height: 15px; background-color: #ccc;"></div> <div style="width: 15px; height: 15px; background-color: #ccc;"></div> <div style="width: 15px; height: 15px; background-color: #000;"></div> </div> <p style="font-size: x-small; text-align: center;">ENGINEERS • CONSULTANTS</p>	<p style="font-size: x-small;">APPROVED: <i>Tommy</i> DATE: 6/26/2017</p> <div style="text-align: center;">  <p style="font-size: x-small;">SEAL 025465 ENGINEER TIM ARE</p> </div>	<div style="text-align: center;">  <p style="font-size: x-small;">DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p> </div>	<h2 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h2>
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# TYPICAL #1: LEADING EDGE LAYOUT FOR PORTABLE CONCRETE BARRIER



SIGN NUMBER: TYPE: A QUANTITY: 1 SIGN WIDTH: 16'-0" HEIGHT: 11'-0" TOTAL AREA: 176.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1.5" RADIUS: 12" NO. Z BARS: 3 LENGTH: 184.0	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT M1_4 17.6 63.6 24 24 M1_1 59.1 63.6 24 24 M1_4 131.4 63.6 24 24 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: PROJECT ID: CHECKED BY: DIV: DATE: May 19, 2017
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Spacing Factor is 1 unless specified otherwise

Letter positions										Series/Size				
Letter spacings are to start of next letter										Text Length				
24.4	5.3	5	157.3							E 2000				
24.4	5.3	5	157.3							10.4				
138.6	5.3	5	43							E 2000				
138.6	5.3	5	43							10.4				
14.4	6.5	1.2	6.4	5.9	5.5	4.9	47.3			E 2000				
14.4	6.5	1.2	6.4	5.9	5.5	4.9	47.3			30.3				
8	6.1	6.1	6.1	2.6	6.4	5.3	5.7	4.9	40.9	E 2000				
8	6.1	6.1	6.1	2.6	6.4	5.3	5.7	4.9	40.9	43.1				
66.7	5.3	5	14.9							E 2000				
66.7	5.3	5	14.9							10.4				
128.8	6.5	1.2	6.4	5.5	5.5	4.9	33.2			E 2000				
128.8	6.5	1.2	6.4	5.5	5.5	4.9	33.2			30				
9.8	10.4	4.8	4.8	12	4.8	7.8	7.7	6	7.9	5.3	10.7	EM 2000		
9.8	10.4	4.8	4.8	12	4.8	7.8	7.7	6	7.9	5.3	10.7	71.4		
103.6	8.1	7.8	7.8	6.9	7	7.9	7.6	8.5	4.8	4.8	4.1	5.3	8	EM 2000
103.6	8.1	7.8	7.8	6.9	7	7.9	7.6	8.5	4.8	4.8	4.1	5.3	8	80.5
25.8	3	10	9.6	3.5	7.4	6	26.7							E 2000
25.8	3	10	9.6	3.5	7.4	6	26.7							39.5
124.1	3	10	9.6	3.5	7.4	6	28.8							E 2000
124.1	3	10	9.6	3.5	7.4	6	28.8							39.5
14.1	7.4	7.6	6.6	6	8	6.6	9.5	8.6	6	11.6				E 2000
14.1	7.4	7.6	6.6	6	8	6.6	9.5	8.6	6	11.6				66.3
105.7	8.1	3.3	8.3	7.8	6	8	6.6	9.5	8.6	6	14.1			E 2000
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SIGN NUMBER: TYPE: A QUANTITY: 1 SIGN WIDTH: 16'-0" HEIGHT: 10'-6" TOTAL AREA: 168.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1.5" RADIUS: 12" NO. Z BARS: 3 LENGTH: 184.0	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT M1_4 17.5 58.8 24 24 M1_1 59.1 58.8 24 24 M1_4 131.4 58.8 24 24 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: PROJECT ID: CHECKED BY: DIV: DATE: May 19, 2017
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Spacing Factor is 1 unless specified otherwise

Letter positions										Series/Size				
Letter spacings are to start of next letter										Text Length				
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138.6	5.3	5	43							E 2000				
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14.4	6.5	1.2	6.4	5.9	5.5	4.9	47.3			E 2000				
14.4	6.5	1.2	6.4	5.9	5.5	4.9	47.3			30.3				
8	6.1	6.1	6.1	2.6	6.4	5.3	5.7	4.9	40.9	E 2000				
8	6.1	6.1	6.1	2.6	6.4	5.3	5.7	4.9	40.9	43.1				
66.7	5.3	5	14.9							E 2000				
66.7	5.3	5	14.9							10.4				
128.8	6.5	1.2	6.4	5.5	5.5	4.9	33.2			E 2000				
128.8	6.5	1.2	6.4	5.5	5.5	4.9	33.2			30				
9.8	10.4	4.8	4.8	12	4.8	7.8	7.7	6	7.9	5.3	10.7	EM 2000		
9.8	10.4	4.8	4.8	12	4.8	7.8	7.7	6	7.9	5.3	10.7	71.4		
103.6	8.1	7.8	7.8	6.9	7	7.9	7.6	8.5	4.8	4.8	4.1	5.3	8	EM 2000
103.6	8.1	7.8	7.8	6.9	7	7.9	7.6	8.5	4.8	4.8	4.1	5.3	8	80.5
19.8	7.8	8.3	8.3	6.7	8	6.6	6	20.8						E 2000
19.8	7.8	8.3	8.3	6.7	8	6.6	6	20.8						51.8
117.9	7.8	8.3	8.3	6.7	8	6.6	6	22.3						E 2000
117.9	7.8	8.3	8.3	6.7	8	6.6	6	22.3						51.8
14.1	7.4	7.6	6.6	6	8	6.6	9.5	8.6	6	11.6				E 2000
14.1	7.4	7.6	6.6	6	8	6.6	9.5	8.6	6	11.6				66.3
105.7	8.1	3.3	8.3	7.8	6	8	6.6	9.5	8.6	6	14.1			E 2000
105.7	8.1	3.3	8.3	7.8	6	8	6.6	9.5	8.6	6	14.1			72.2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLAN PREPARED IN THE OFFICE OF:  
**PROGRESSIVE DESIGN GROUP, INC.**  
ENGINEERS • CONSULTANTS

APPROVED: *Tommy* DATE: 6/26/2017  
SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
TIM ARE

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

TRANSPORTATION MANAGEMENT PLAN  
PCB TYPICALS & SIGN DESIGNS

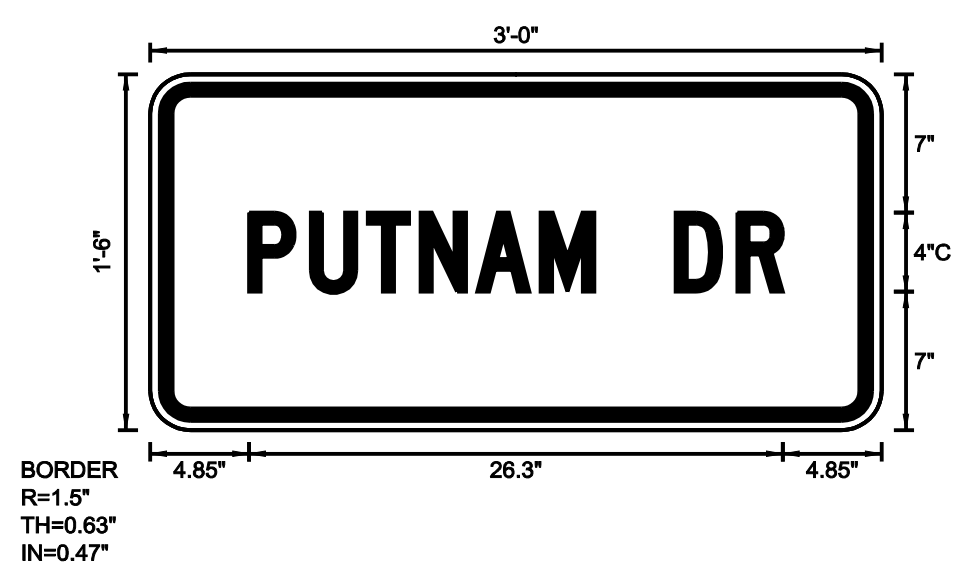
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 RECESS: 0.47"  
 WIDTH: 0.63"  
 RADII: 1.5"  
 NO. Z BARS:  
 LENGTH:

BACKG COLOR: Orange  
 COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: CHECKED BY: DATE: May 19, 2017  
 PROJECT ID: DIV:

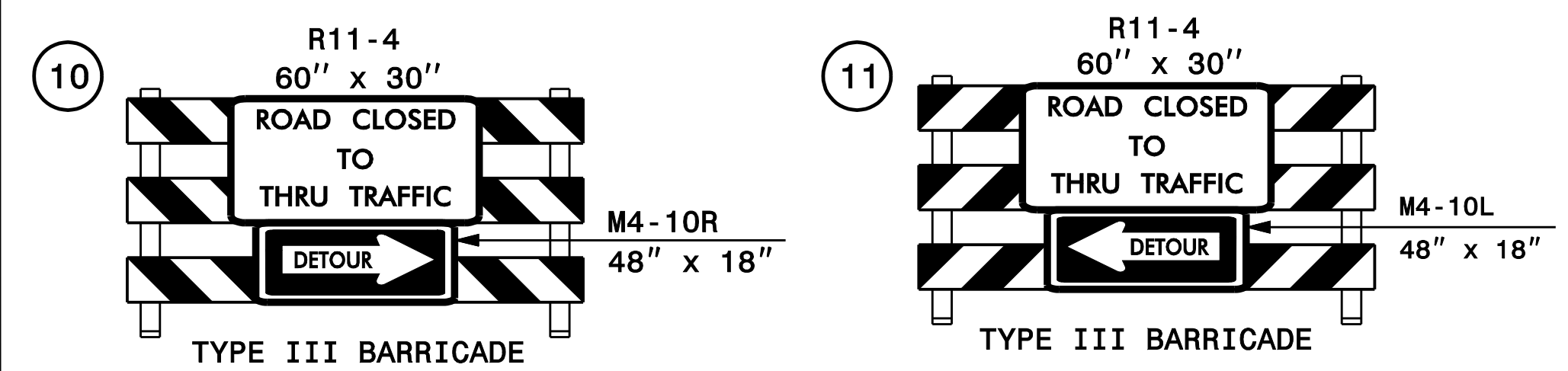
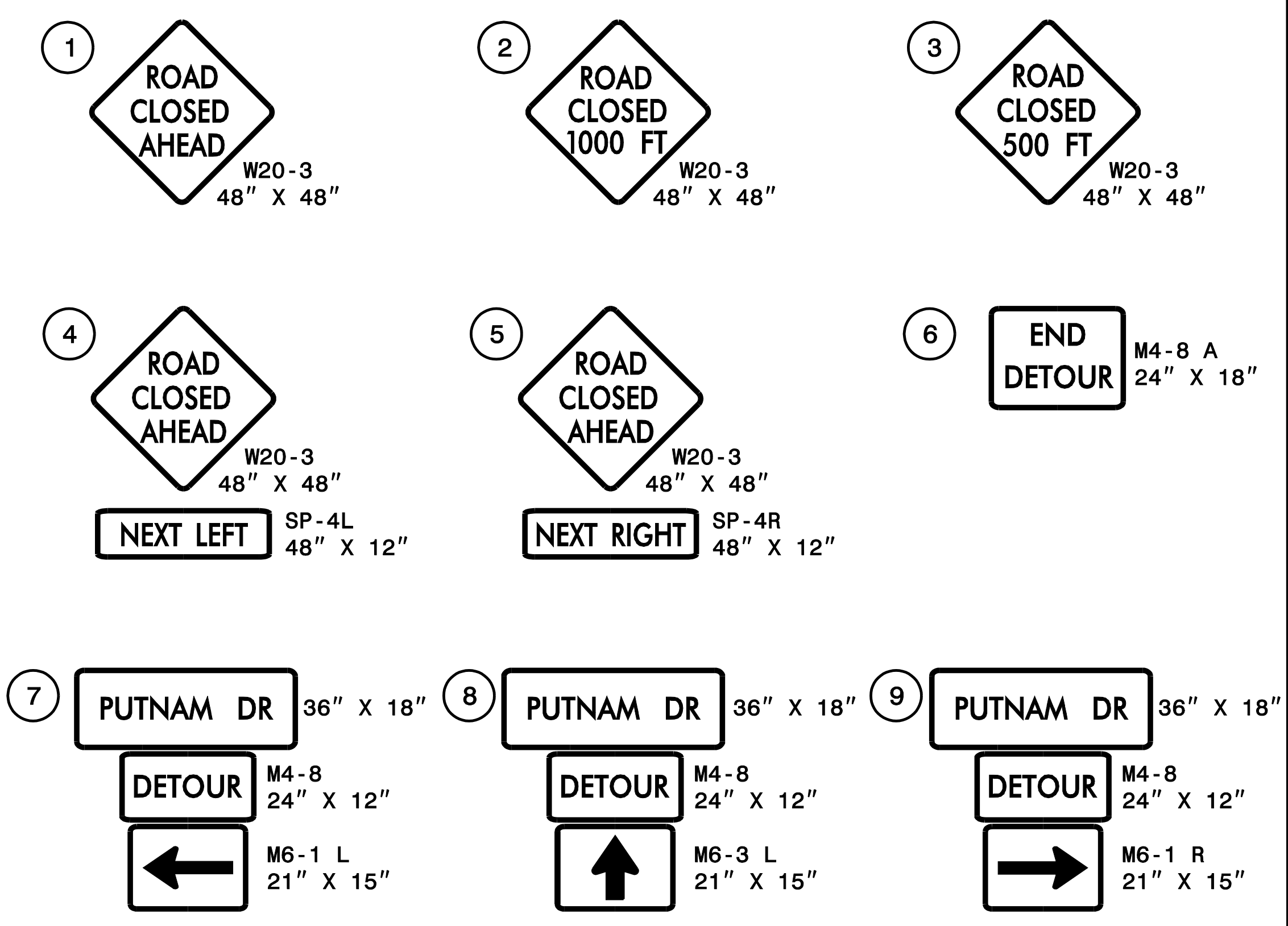
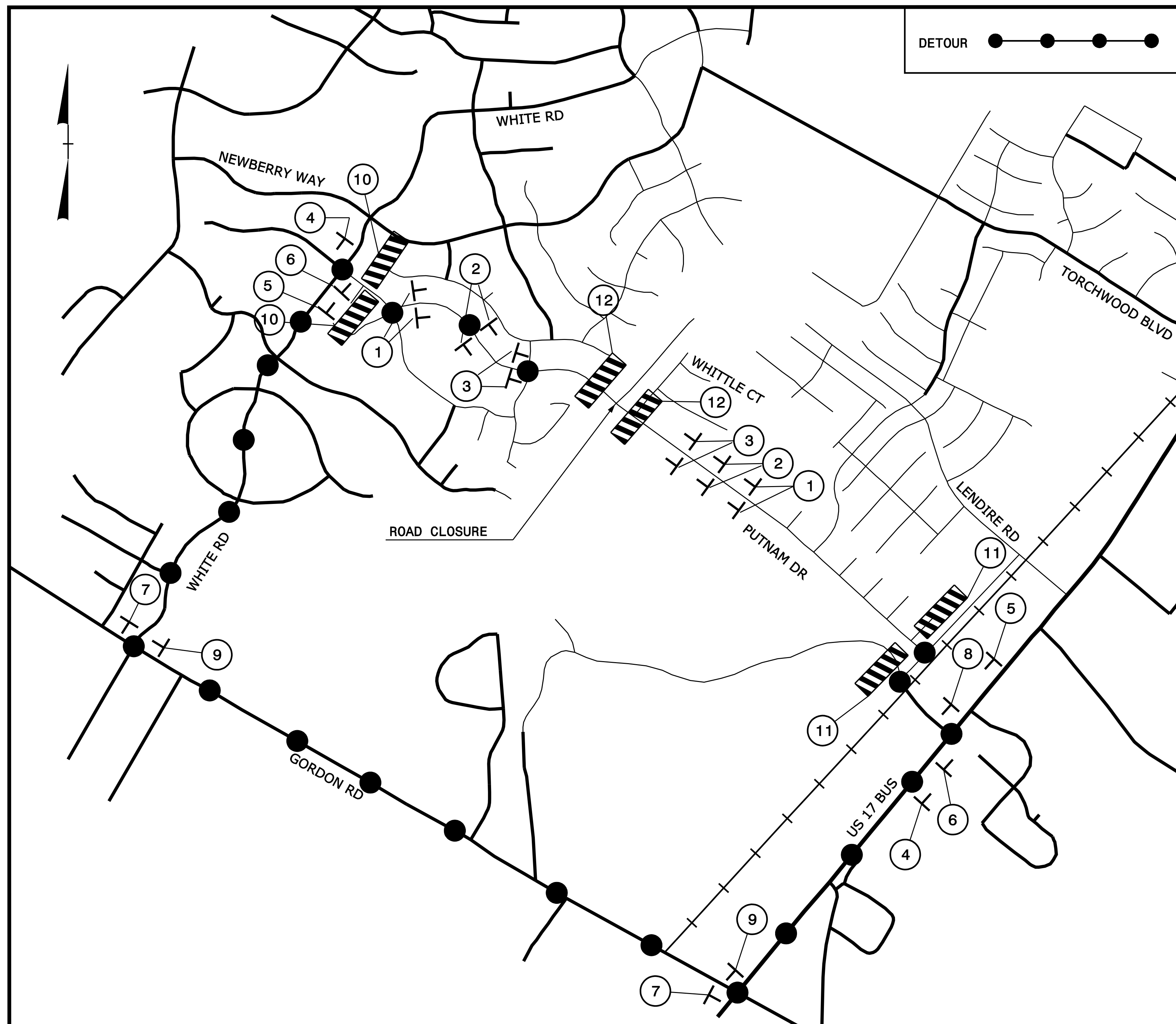


LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Letter spacings are to start of next letter										Text Length	
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FILENAME: Offsite Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL



TYPE III BARRICADE(S)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REFER TO ROADWAY STANDARD DRAWING #1101.03, SHEET 1 OF 9 FOR APPLICABLE NOTES.

PLAN PREPARED IN THE OFFICE OF:  
**PROGRESSIVE DESIGN GROUP, INC.**  
 ENGINEERS • CONSULTANTS

APPROVED: [Signature] DATE: 6/26/2017  
 SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465

DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

TRANSPORTATION MANAGEMENT PLAN  
 OFFSITE DETOUR ROUTES

SIGN NUMBER: TYPE: D BACKS COLOR: Orange  
 QUANTITY: 1 COPY COLOR: Black  
 SIGN WIDTH: 3'-0" HEIGHT: 1'-6"  
 TOTAL AREA: 4.5 Sq. Ft.  
 BORDER TYPE: FLUSH RECESS: 0.47"  
 WIDTH: 0.63" RADII: 1.5"  
 NO. Z BARS: MAT'L: 0.125" (3.2 mm) ALUMINUM  
 LENGTH:

DESIGN BY: CHECKED BY: DATE: May 19, 2017  
 PROJECT ID: DIV:



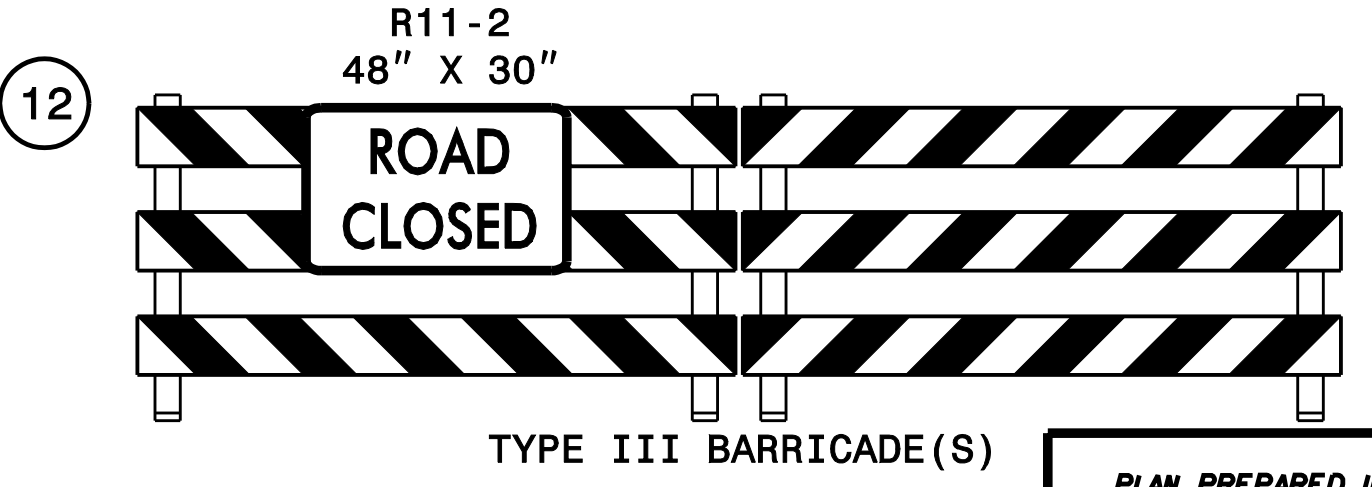
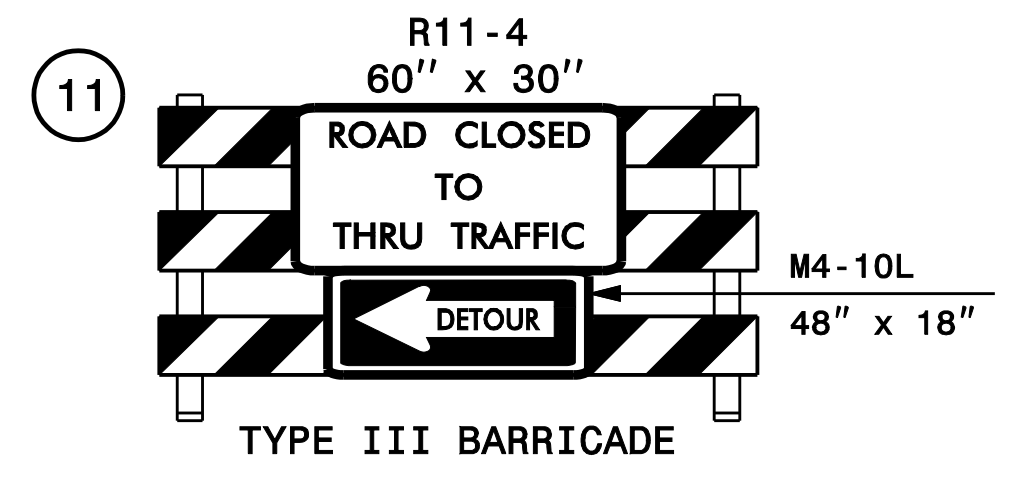
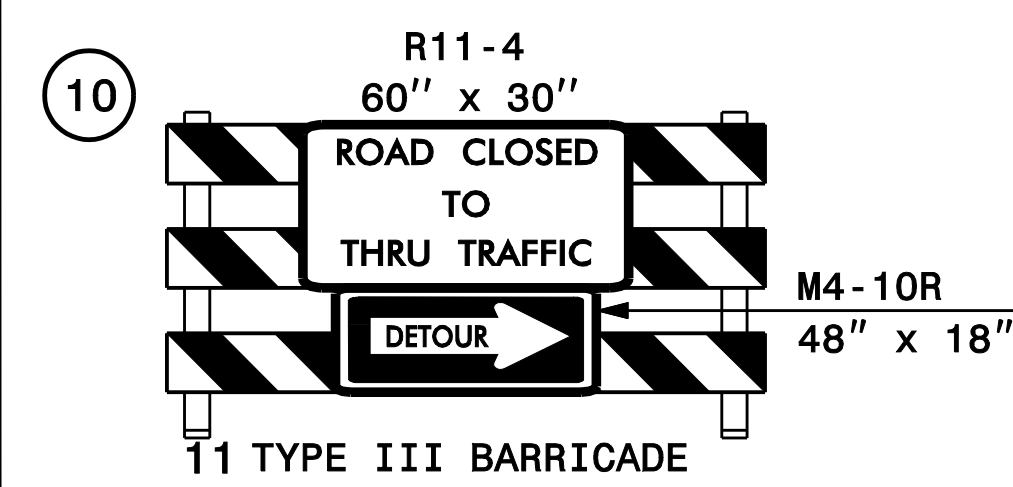
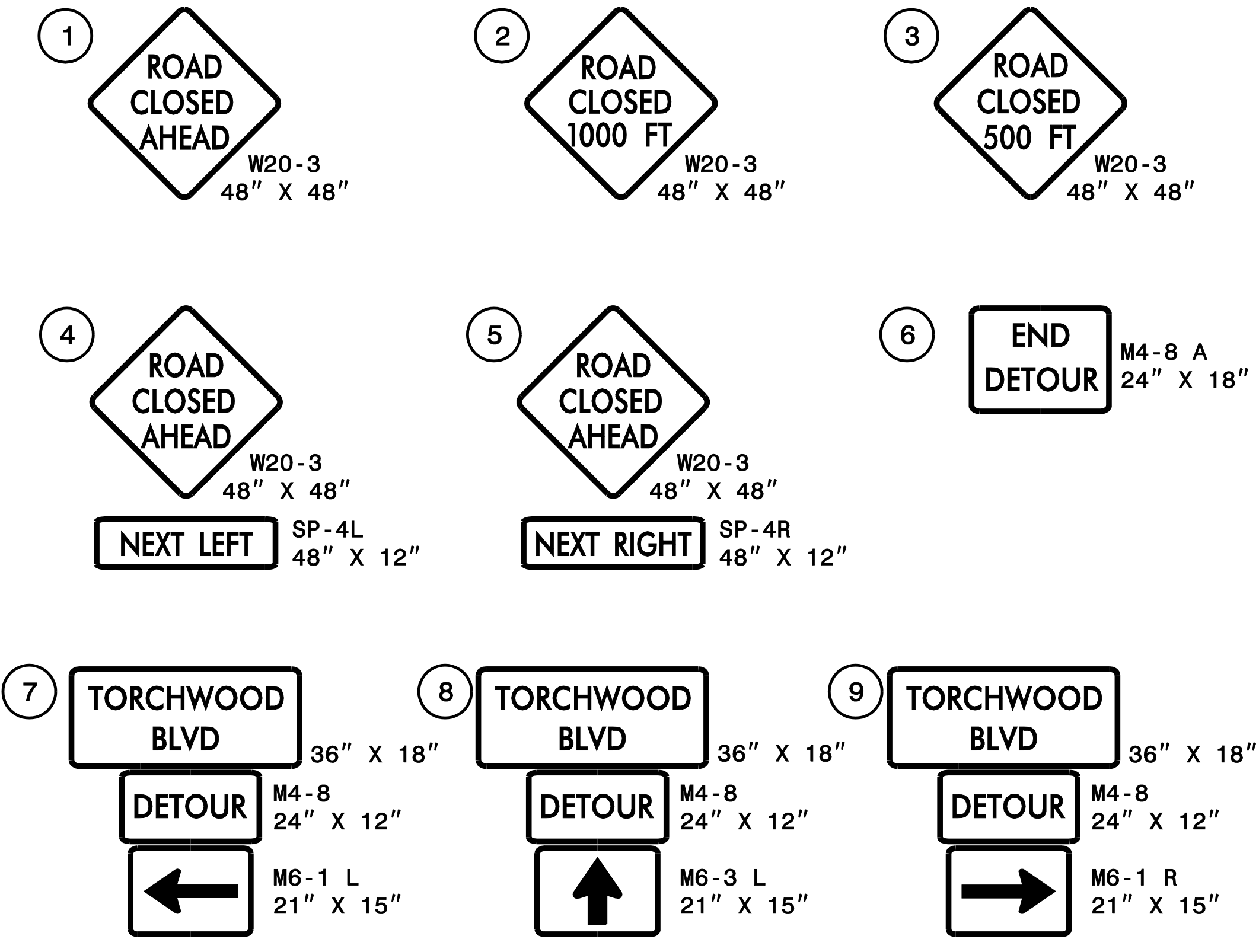
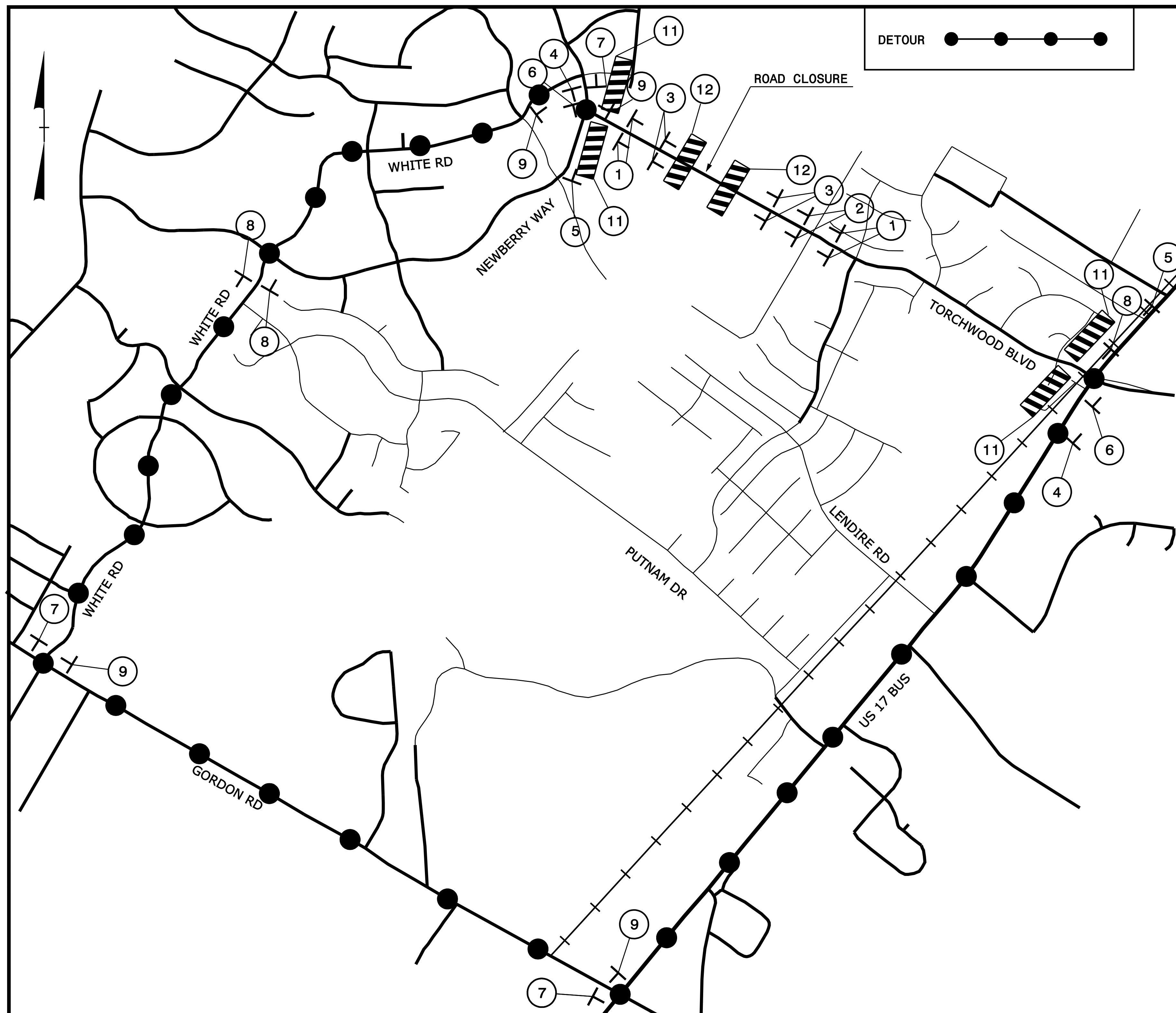
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

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												10.5

FILENAME: Offsite Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

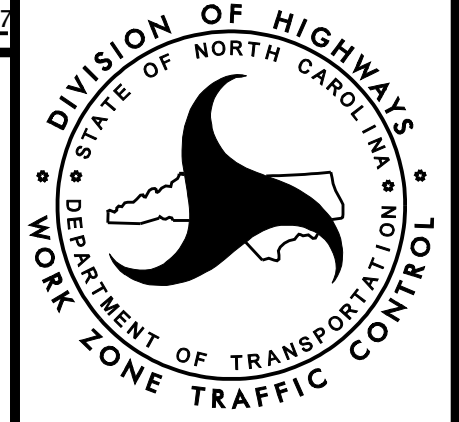


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REFER TO ROADWAY STANDARD DRAWING #1101.03, SHEET 1 OF 9 FOR APPLICABLE NOTES.

PLAN PREPARED IN THE OFFICE OF:  
**PROGRESSIVE DESIGN GROUP, INC.**  
 ENGINEERS • CONSULTANTS

APPROVED: [Signature] DATE: 6/26/2017  
 SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 025465  
 TIM ARE



TRANSPORTATION MANAGEMENT PLAN  
 OFFSITE DETOUR ROUTES



# PHASING

PROJ. REFERENCE NO.	SHEET NO.
U-4751	TMP-3

## AREA 1

### PHASE I

NOTICE: CONTRACTOR SHALL ADHERE TO A 365 DAY DELAY OF ENTRY FOR ANY WORK ACTIVITIES OCCURRING WITHIN 50 FEET OF ANY TRAVEL LANE ALONG THE FOLLOWING ROADWAYS:  
 -L- (MILITARY CUTOFF ROAD): FROM STA. 10+00+/- TO STA. 40+15+/-.  
 -Y- (GORDON ROAD): FROM STA. 10+00+/- -Y- TO STA. 22+10+/- -Y-.  
 -Y1- (MARKET STREET): FROM STA. 10+00+/- -Y1- TO STA. 85+00+/- -Y1-.  
 THIS 365 DAY DELAY OF ENTRY BEGINS WHEN THE WORK REQUIRED OF AREA 1, PHASE I, STEP 1 BEGINS. EXCEPTIONS TO THIS RESTRICTION ARE IDENTIFIED IN AREA 1, PHASE I, STEP 2 BELOW.

- STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADWAYS WITHIN AREA 1 ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.01, SHEETS 1 AND 3 OF 3.
- STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, BEGIN CONSTRUCTION ON THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:  
 -Y1- (RIGHT SIDE ONLY): IN THE LOCATIONS SHOWN ON SHEET TMP-5.  
 -Y1RPD-: IN THE LOCATIONS SHOWN ON SHEET TMP-5.  
 -Y16-: IN THE LOCATIONS SHOWN ON SHEET TMP-5  
 -Y24-: IN THE LOCATIONS SHOWN ON SHEET TMP-5.

BEGIN INSTALLATION OF THE TEMPORARY TRAFFIC SIGNAL COMPONENTS AT THE -L-/-Y1RPD- INTERSECTION AND THE -Y1-/-Y1RPD- INTERSECTION FOR THE TRAFFIC PATTERNS SHOWN ON SHEETS TMP-7, TMP-9, TMP-11 AND TMP-12.

### PHASE II

- STEP 1: COMPLETE ALL WORK BEGUN IN AREA 1 PHASE I STEP 2.
- STEP 2: AWAY FROM TRAFFIC, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -Y1RPD- IN THE PATTERN AND LOCATIONS SHOWN ON SHEETS TMP-7, TMP-9, TMP-11 AND TMP-12.  
 USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -L-, -Y-, -Y1- AND -Y1RPD- IN THE PATTERN AND LOCATIONS SHOWN ON SHEETS TMP-7, TMP-9, TMP-11 AND TMP-12. ACTIVATE THE TEMPORARY TRAFFIC SIGNALS AT THE -L-/-Y1RPD- INTERSECTION AND THE -Y1-/-Y1RPD- INTERSECTION AND PLACE -L-, -Y-, -Y1- AND -Y1RPD- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-7, TMP-9, TMP-11 AND TMP-12. CLOSE EXISTING MILITARY CUTOFF ROAD FROM THE -Y- INTERSECTION TO THE -Y1- INTERSECTION.

- STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, BEGIN CONSTRUCTION ON THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:  
 -L-: IN THE LOCATIONS SHOWN ON SHEETS TMP-7, TMP-9 AND TMP-10.  
 -Y-: IN THE LOCATIONS SHOWN ON SHEET TMP-6.  
 -Y1-: IN THE LOCATIONS SHOWN ON SHEETS TMP-6, TMP-7, TMP-8, TMP-10 AND TMP-11. INSTALL THE PROPOSED CROSS PIPES AT STA. 38+45+/- AND STA. 45+40+/- BY DETOURING Y1- TRAFFIC ONTO -Y- AND -Y1RPD- DURING THE TIMES ALLOWED IN GENERAL NOTE B. USE LAW ENFORCEMENT CONTROL AT THE -Y1-/-Y- INTERSECTION, THE -L-/-Y- INTERSECTION AND THE -Y1-/-Y1RPD- INTERSECTION DURING THE DETOUR. INSTALL THE PROPOSED CROSS PIPES AT STA. 52+40+/- AND STA. 70+45+/- BY PLACING -Y1- TRAFFIC INTO A TWO-WAY ONE LANE PATTERN DURING THE TIMES ALLOWED IN GENERAL NOTE B.  
 -SR1-: IN THE LOCATIONS SHOWN ON SHEETS TMP-6 AND TMP-7.

- STEP 4: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ALONG -Y1- IN THE LOCATIONS SHOWN ON SHEETS TMP-10 AND TMP-11 AND CONSTRUCT THE END BENTS FOR THE PROPOSED -L- BRIDGE OVER -Y1-. BEGIN INSTALLATION OF THE PROPOSED TRAFFIC SIGNAL COMPONENTS AT THE -Y-/-Y1-, -Y-/-Y1RPD-, -Y1-/-Y1RPB- AND -Y1-/-Y13- INTERSECTIONS.

### PHASE III

- STEP 1: COMPLETE WIDENING CONSTRUCTION ON -Y1- FROM STA. 36+00+/- -Y1- TO STA. 52+00+/- -Y1- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, REMOVE PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ON -Y1-, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -Y1- IN THE PATTERN AND LOCATIONS SHOWN ON SHEETS TMP-13 AND TMP-14 AND PLACE -Y1- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-13 AND TMP-14.
- STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ALONG -Y1- IN THE LOCATIONS SHOWN ON SHEETS TMP-13 AND TMP-14 AND CONSTRUCT THE CENTER SUPPORT FOR THE PROPOSED -L- BRIDGE OVER -Y1-. -Y1- TRAFFIC SHALL BE DETOURED ONTO -Y1RPD- TO GORDON ROAD DURING GIRDER HANGING OPERATIONS. SEE GENERAL NOTE B ON SHEET TMP-1B FOR RESTRICTIONS.

### PHASE IV

- STEP 1: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, REMOVE PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ON -Y1- AND COMPLETE CONSTRUCTION ON ALL ROADWAYS WITHIN AREA 1 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. COMPLETE INSTALLATION OF THE PROPOSED TRAFFIC SIGNAL COMPONENTS AT THE -L-/-Y1-, -Y-/-Y1-, -Y1-/-Y1RPB- AND -Y1-/-Y13- INTERSECTIONS.

NOTE: THE WORK DESCRIBED IN AREA 1, PHASE IV, STEP 2 SHALL BE COORDINATED WITH THE WORK DESCRIBED IN AREA 2, PHASE III, STEP 3.

- STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS IN THE FINAL PATTERN ACCORDING TO THE PATTERNS AND LOCATIONS SPECIFIED IN THE FINAL PAVEMENT MARKING PLANS ON ALL ROADWAYS WITHIN AREA 1, ACTIVATE PROPOSED TRAFFIC SIGNALS AT THE -L-/-Y1- AND THE -Y-/-Y1- INTERSECTIONS AND PLACE ALL TRAFFIC IN THE FINAL TRAFFIC PATTERN.
- STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, COMPLETE THE MEDIAN ISLAND CONSTRUCTION WORK ALONG -Y1- AND -Y1RPD- AND PLACE THE FINAL LAYER OF SURFACE COURSE AND THE FINAL PAVEMENT MARKERS AND MARKERS ON ALL ROADWAYS WITHIN THE AREA 1 LIMITS.

## AREA 2

### PHASE I

- STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADWAYS WITHIN AREA 2 ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.01, SHEETS 1 THRU 3 OF 3.
- STEP 2: AWAY FROM TRAFFIC, BEGIN CONSTRUCTION ON THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:  
 -L-: IN THE LOCATIONS SHOWN ON SHEETS TMP-5, TMP-15 THRU TMP-20, AND TMP-23.  
 -Y1RPA-: IN THE LOCATIONS SHOWN ON SHEETS TMP-5 AND TMP-15.  
 -Y1RPB-: IN THE LOCATIONS SHOWN ON SHEETS TMP-5 AND TMP-15.  
 -Y1LPB-: IN THE LOCATIONS SHOWN ON SHEET TMP-5.  
 -Y2-: IN THE LOCATIONS SHOWN ON SHEET TMP-16. HANG -L- BRIDGE GIRDERS OVER -Y2- DURING THE TIMES OF DAY WHEN THE ROAD IS GATED AND CLOSED TO TRAFFIC. SEE GENERAL NOTE B ON SHEET TMP-1B FOR RESTRICTIONS.  
 -Y4-: IN THE LOCATIONS SHOWN ON SHEET TMP-17.  
 -Y6-: IN THE LOCATIONS SHOWN ON SHEET TMP-18.  
 -SR4-: IN THE LOCATIONS SHOWN ON SHEETS TMP-19 AND TMP-20.  
 -Y8RPB-: IN THE LOCATIONS SHOWN ON SHEET TMP-23.  
 -Y8RPCA-: IN THE LOCATIONS SHOWN ON SHEETS TMP-22 AND TMP-23.  
 -Y8RPDB-: IN THE LOCATIONS SHOWN ON SHEETS TMP-20, TMP-22 AND TMP-23.  
 -Y8RPD-: IN THE LOCATIONS SHOWN ON SHEETS TMP-20, TMP-23 AND TMP-24.  
 -Y8LPB-: IN THE LOCATIONS SHOWN ON SHEET TMP-23.  
 -Y8LPC-: IN THE LOCATIONS SHOWN ON SHEET TMP-23.  
 -Y12- TEMPORARY PAVEMENT CONNECTOR: IN THE LOCATIONS SHOWN ON SHEET TMP-16.
- CONSTRUCT THE FOLLOWING ROADWAYS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:  
 - PROPOSED CUL-DE-SACS ON COPPERFIELD CT AND FOXFIELD CT AS SHOWN ON SHEET TMP-17.  
 -Y18-: IN THE LOCATIONS SHOWN ON SHEET TMP-20.  
 -Y19-: IN THE LOCATIONS SHOWN ON SHEET TMP-20.
- USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, CONSTRUCT THE TEMPORARY PAVEMENT MEDIAN WIDENING ALONG -Y8- IN LOCATIONS SHOWN ON SHEETS TMP-21 THRU TMP-24.

- STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -Y8- IN THE PATTERN AND LOCATIONS SHOWN ON SHEETS TMP-25 THRU TMP-28 AND PLACE -Y8- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-25 THRU TMP-28. INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ALONG -Y8- IN THE LOCATIONS SHOWN ON SHEETS TMP-25 THRU TMP-28.
- STEP 4: BEGIN CONSTRUCTION ON THE PROPOSED RAMP AND LOOP TIE INS TO -Y8- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE LOCATIONS SHOWN ON SHEETS TMP-25 THRU TMP-28. BEGIN CONSTRUCTION ON THE PROPOSED END BENTS FOR THE -L- BRIDGE OVER -Y8- AND THE -Y8RPDB- BRIDGE OVER -Y8- AS SHOWN ON SHEET TMP-27.

### PHASE II

- STEP 1: COMPLETE CONSTRUCTION ON THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:  
 -L-: FROM STA. 100+50+/- -L- TO STA. 114+35+/- -L-  
 -Y4-: IN THE LOCATIONS SHOWN ON SHEET TMP-17.  
 -Y12- TEMPORARY PAVEMENT CONNECTOR: IN THE LOCATIONS SHOWN ON SHEET TMP-16.
- STEP 2: INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -L-, -Y4- AND THE -Y12- TEMPORARY CONNECTOR IN THE PATTERN AND LOCATIONS SHOWN ON SHEET TMP-29 AND PLACE -Y4- AND -Y12- TRAFFIC IN THE PATTERN SHOWN ON SHEET TMP-29.
- INSTALL OFFSITE DETOUR SIGNS FOR -Y3- AS SHOWN ON SHEET TMP-2A. COVER SIGNS UNTIL DETOUR IS READY FOR OPERATION.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF AREA 2, PHASE II, STEP 3 THRU STEP 5 IN 14 CONSECUTIVE CALENDAR DAYS.

- STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9, CLOSE -Y3- TO TRAFFIC AND UNCOVER THE OFFSITE DETOUR SIGNS FOR -Y3-.
- STEP 4: CONSTRUCT PROPOSED -Y3- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE LOCATIONS SHOWN ON SHEET TMP-29.
- STEP 5: INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -Y3- IN THE PATTERN AND LOCATIONS SHOWN ON SHEET TMP-29 AND PLACE -Y3- TRAFFIC IN THE PATTERN SHOWN ON SHEET TMP-29.
- STEP 6: INSTALL OFFSITE DETOUR SIGNS FOR -Y5- AS SHOWN ON SHEET TMP-2B. COVER SIGNS UNTIL DETOUR IS READY FOR OPERATION.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF AREA 2, PHASE II, STEP 7 THRU STEP 9 IN 14 CONSECUTIVE CALENDAR DAYS.

- STEP 7: USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 1 OF 9, CLOSE -Y5- TO TRAFFIC AND UNCOVER THE OFFSITE DETOUR SIGNS FOR -Y5-.
- STEP 8: CONSTRUCT PROPOSED -Y5- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE LOCATIONS SHOWN ON SHEET TMP-30.
- STEP 9: INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -Y5- IN THE PATTERN AND LOCATIONS SHOWN ON SHEET TMP-30 AND PLACE -Y5- TRAFFIC IN THE PATTERN SHOWN ON SHEET TMP-30.
- STEP 10: COMPLETE CONSTRUCTION ON THE PROPOSED RAMP AND LOOP TIE INS TO -Y8- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE LOCATIONS SHOWN ON SHEETS TMP-25 THRU TMP-28. COMPLETE CONSTRUCTION ON THE PROPOSED END BENTS FOR THE -L- BRIDGE OVER -Y8- AND THE -Y8RPDB- BRIDGE OVER -Y8- AS SHOWN ON SHEET TMP-27.
- STEP 11: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -Y8- IN THE PATTERN AND LOCATIONS SHOWN ON SHEETS TMP-31 THRU TMP-34 AND PLACE -Y8- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-31 THRU TMP-34. INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ALONG -Y8- IN THE LOCATIONS SHOWN ON SHEETS TMP-33 AND TMP-34.
- STEP 12: CONSTRUCT THE CENTER PIERS FOR THE -L- BRIDGE OVER -Y8- AND THE -Y8RPDB- BRIDGE OVER -Y8- AS SHOWN ON SHEET TMP-33. THE FOLLOWING PROCEDURE SHALL BE UTILIZED WHEN HANGING GIRDERS OVER -Y8-:  
 - PLACE -Y8- TRAFFIC INTO A SINGLE LANE USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 3 OF 4.  
 - STOP TRAFFIC IN 30 MINUTE DURATIONS WITHIN THE SINGLE LANE USING ROADWAY STANDARD DRAWING NO. 1101.03 SHEET 9 OF 9. SEE GENERAL NOTE B ON SHEET TMP-1B FOR RESTRICTIONS.

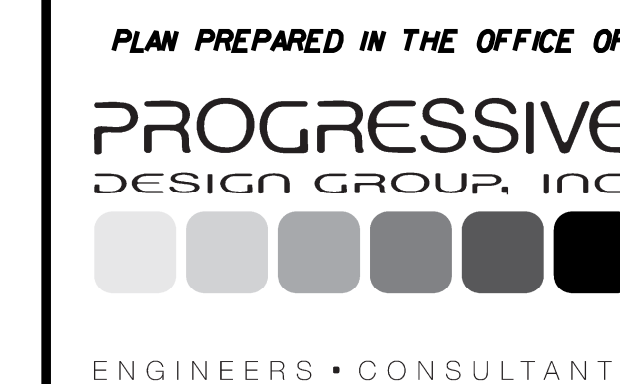
### PHASE III

- STEP 1: COMPLETE CONSTRUCTION ON ALL ROADWAYS WITHIN AREA 2 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- STEP 2: PLACE THE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON ALL ROADWAYS THAT ARE AWAY FROM TRAFFIC ACCORDING TO THE FINAL PAVEMENT MARKING PLANS.

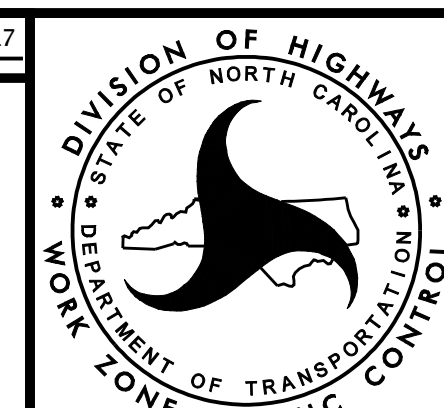
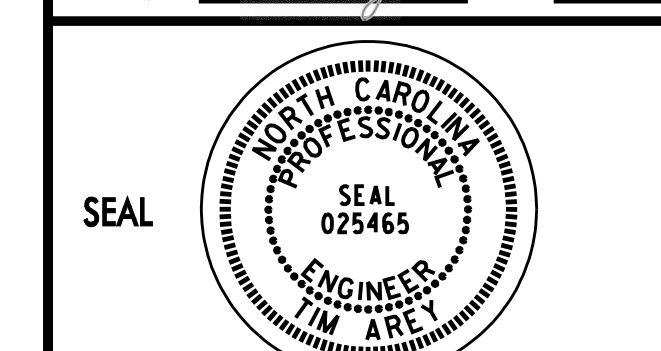
NOTE: THE WORK DESCRIBED IN AREA 2 PHASE III STEP 3 SHALL BE COORDINATED WITH THE WORK DESCRIBED IN AREA 1, PHASE IV, STEP 2.

- STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, PLACE THE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS AND PAVEMENT MARKERS ACCORDING TO THE PATTERNS AND LOCATIONS SPECIFIED IN THE FINAL PAVEMENT MARKING PLANS ON ALL REMAINING ROADWAYS WITHIN AREA 2. SIMULTANEOUSLY OPEN PROPOSED -L-, ALL RAMPS, LOOPS AND -Y- LINES TO THE FINAL TRAFFIC PATTERN.
- STEP 4: REMOVE ALL TRAFFIC CONTROL DEVICES.

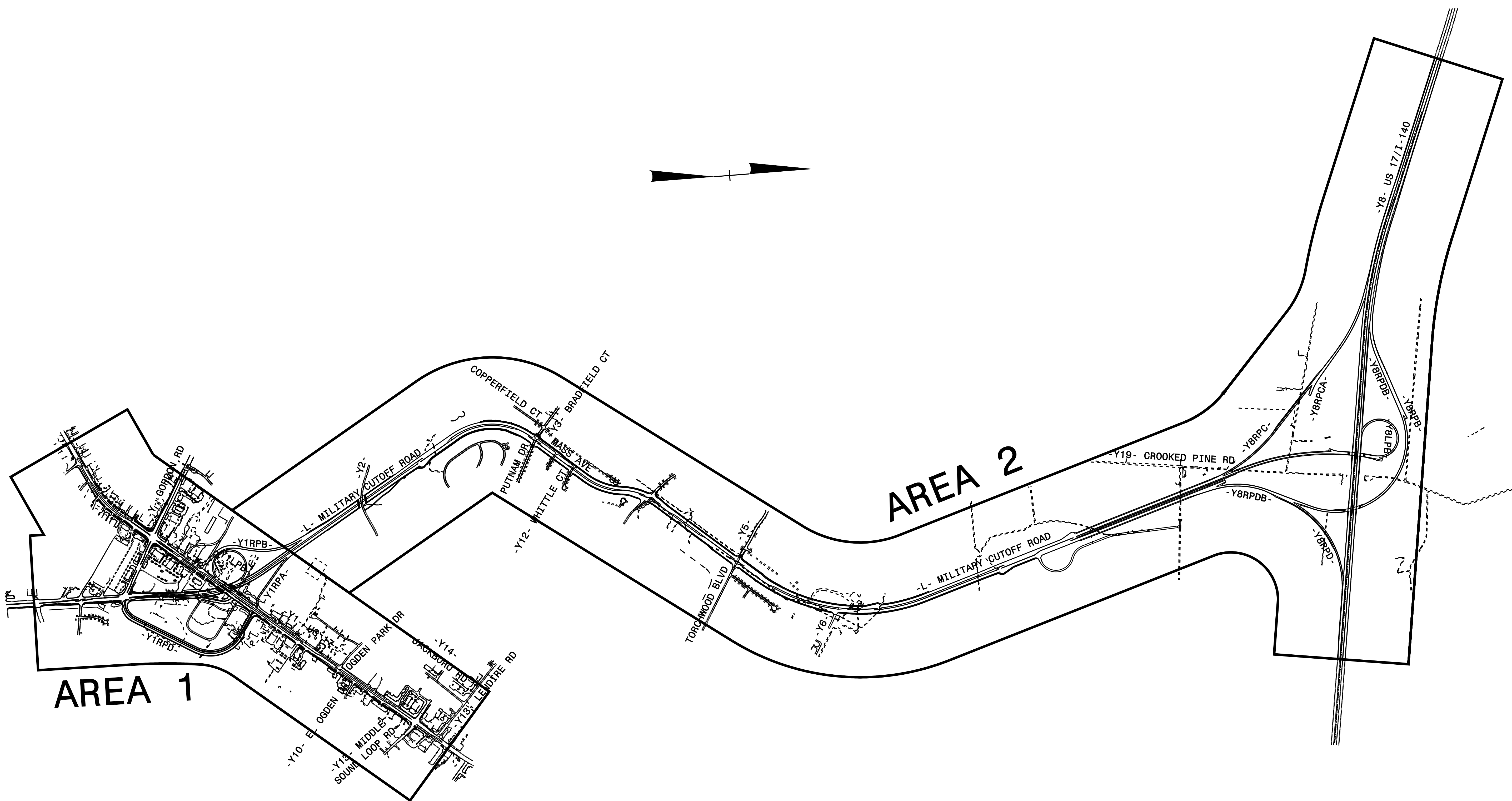
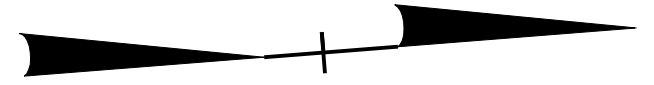
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PHASING NOTES



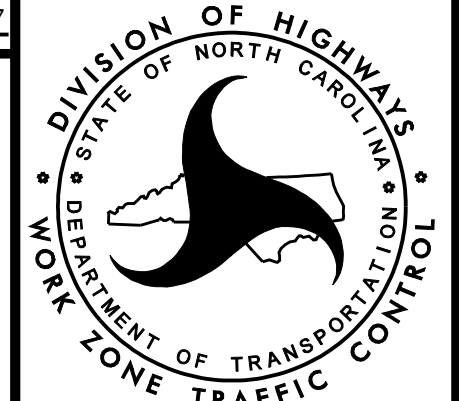
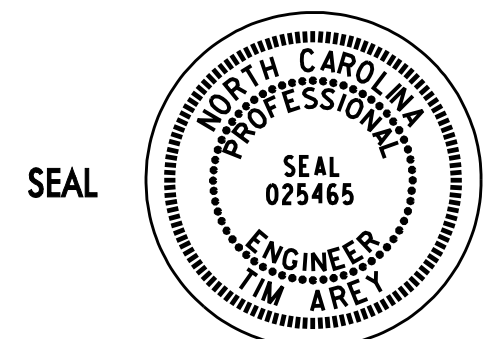
AREA 1

AREA 2

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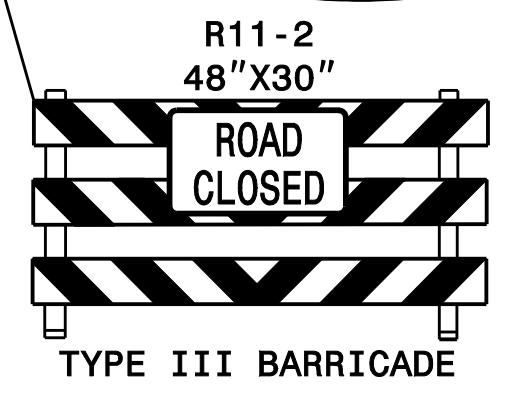
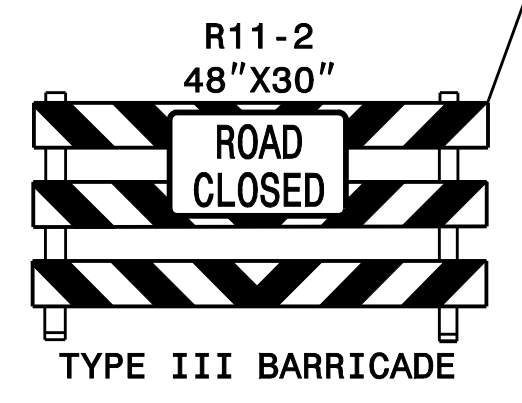
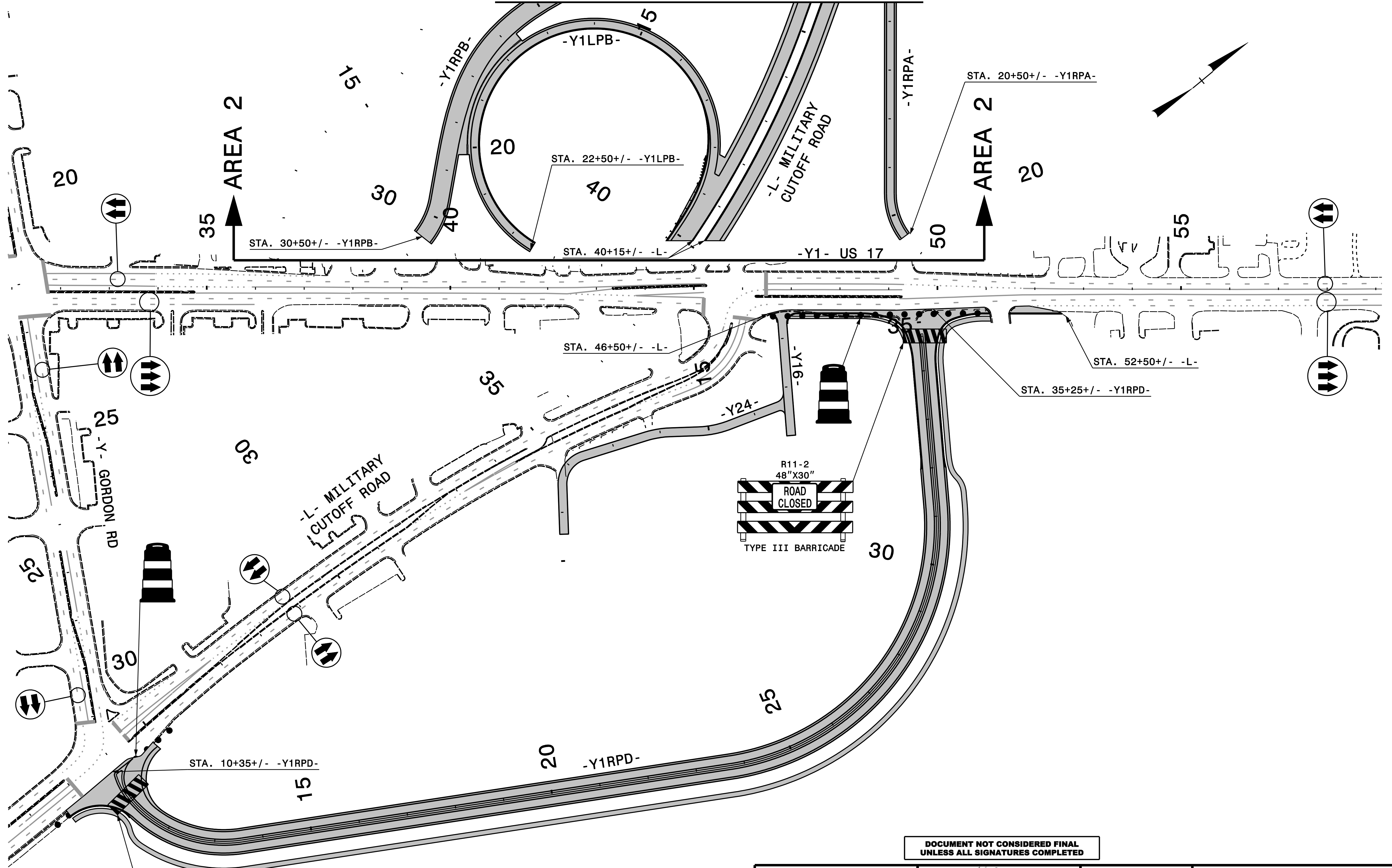
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TRANSPORTATION  
MANAGEMENT PLAN  
AREA OVERVIEW

MATCHLINE SEE SHEET TMP-15



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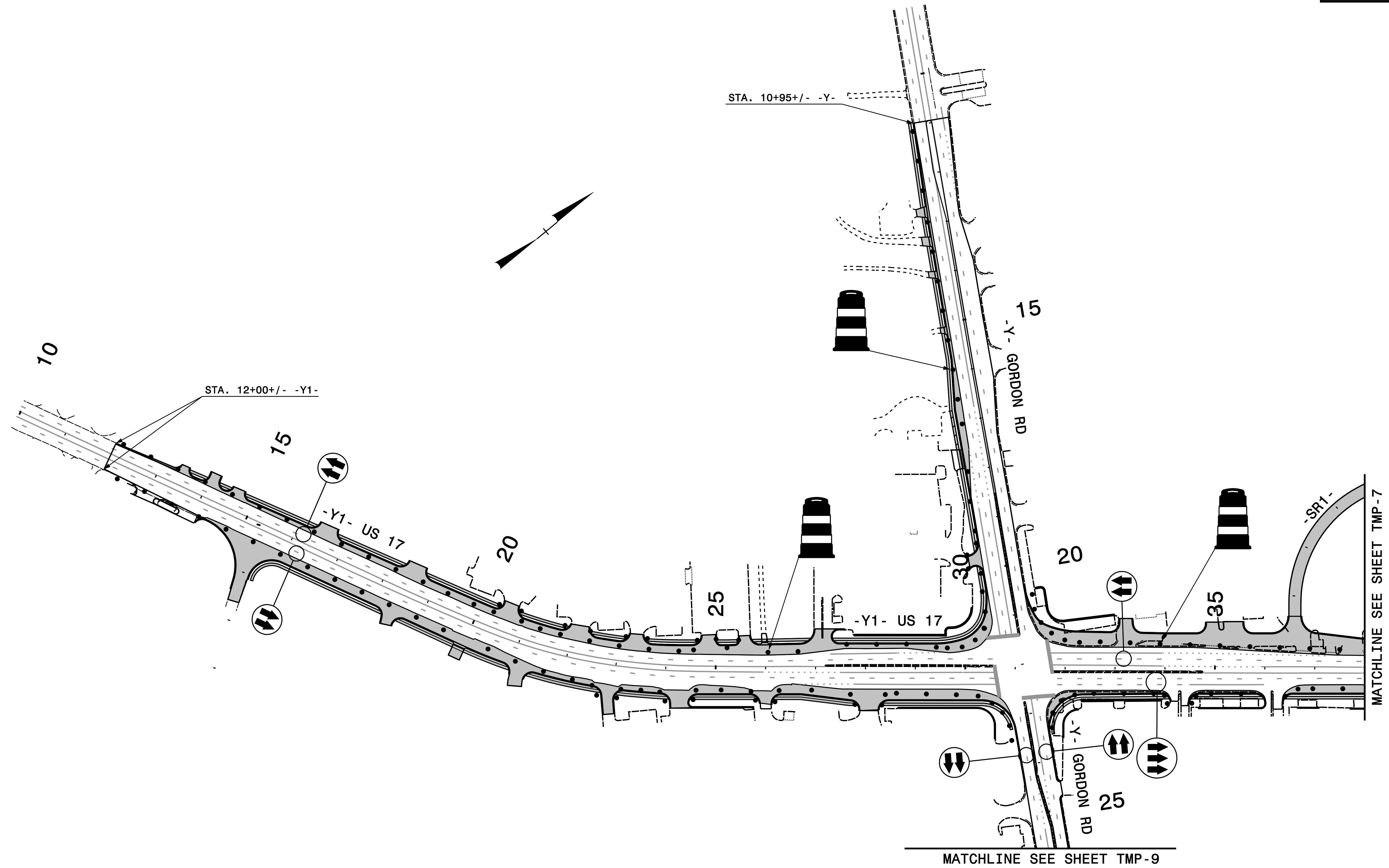
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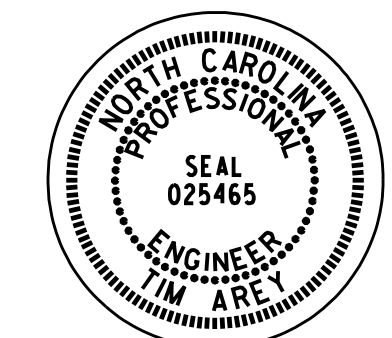
TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I OVERVIEWS  
AREA 1/AREA 2



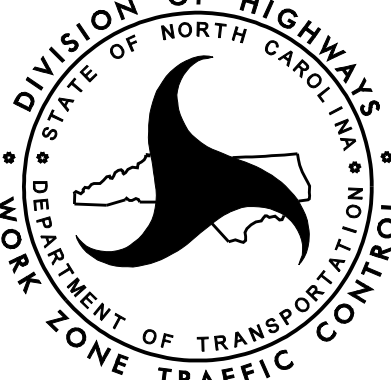
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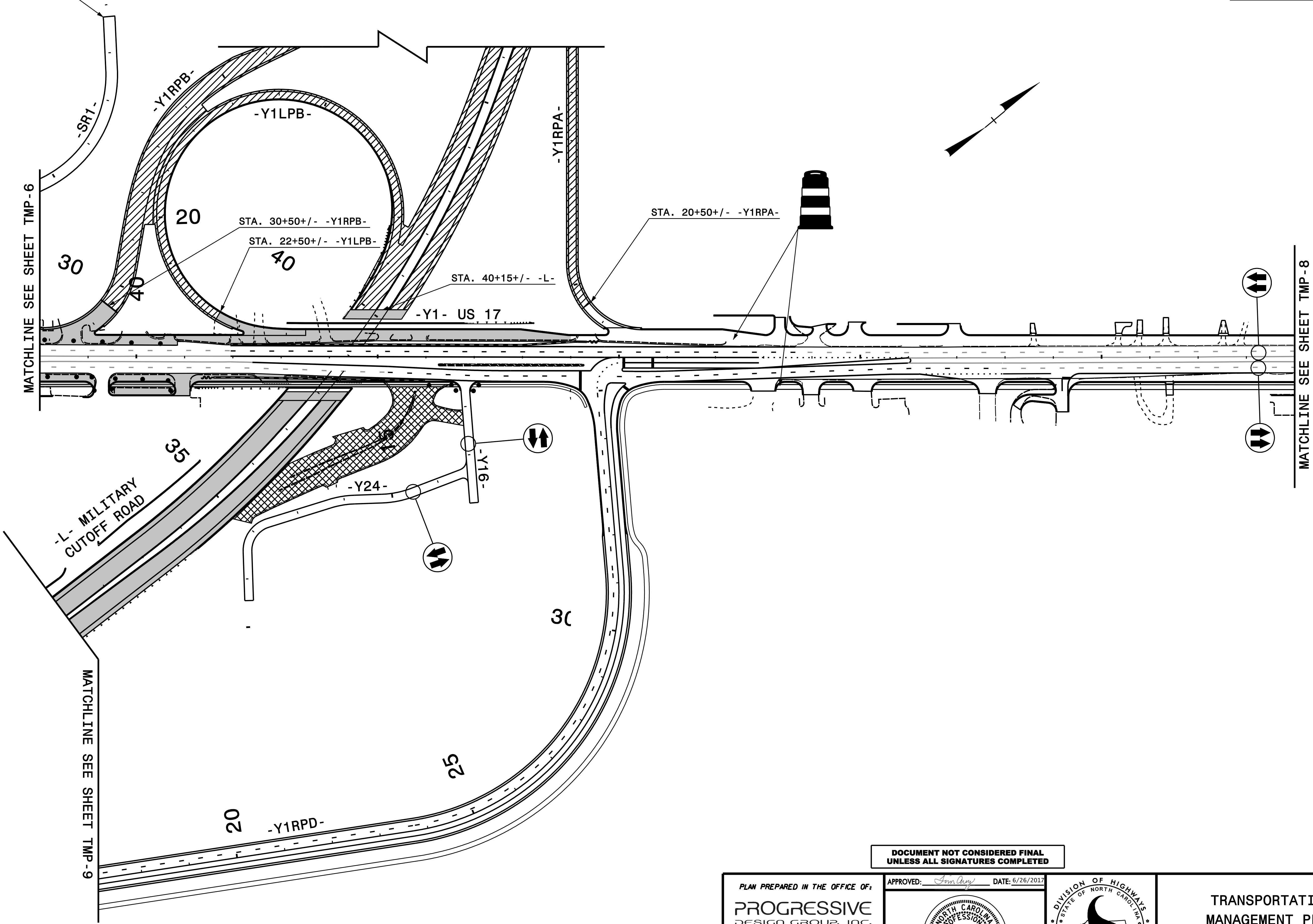
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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL



TRANSPORTATION  
MANAGEMENT PLAN  
PHASE II OVERVIEWS  
AREA 1

STA. 18+75+/- -SR1-



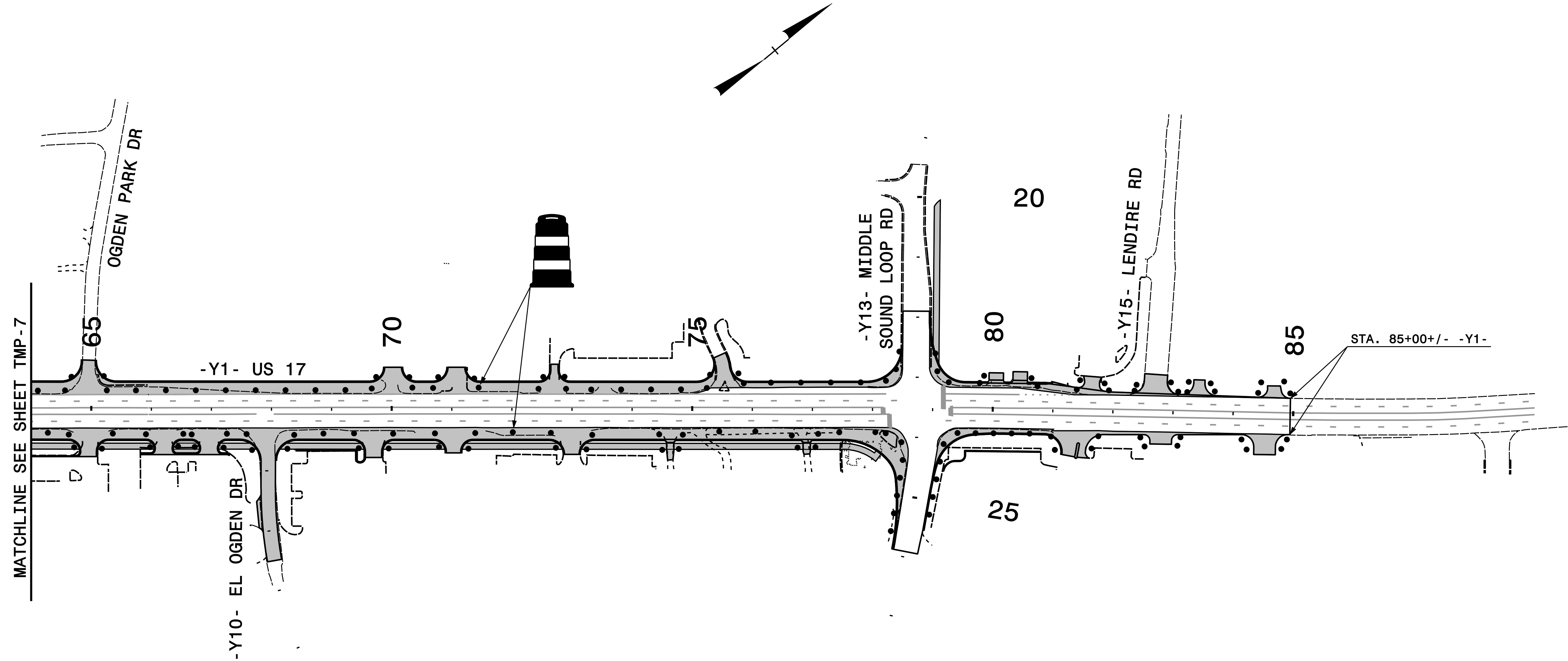
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TRANSPORTATION  
MANAGEMENT PLAN  
PHASE II OVERVIEWS  
AREA 1



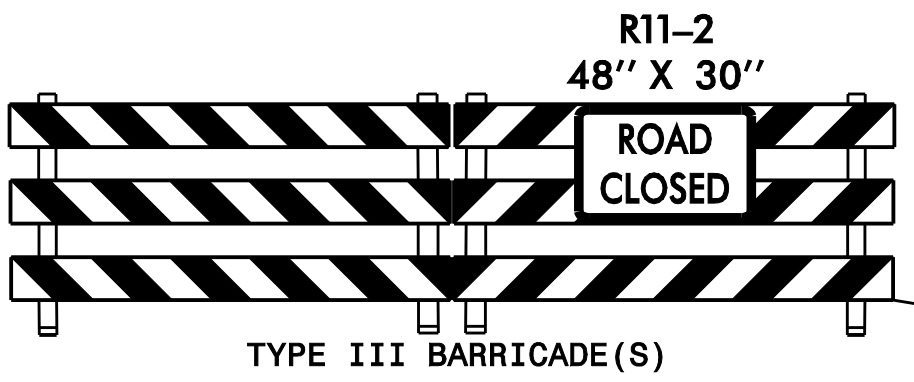
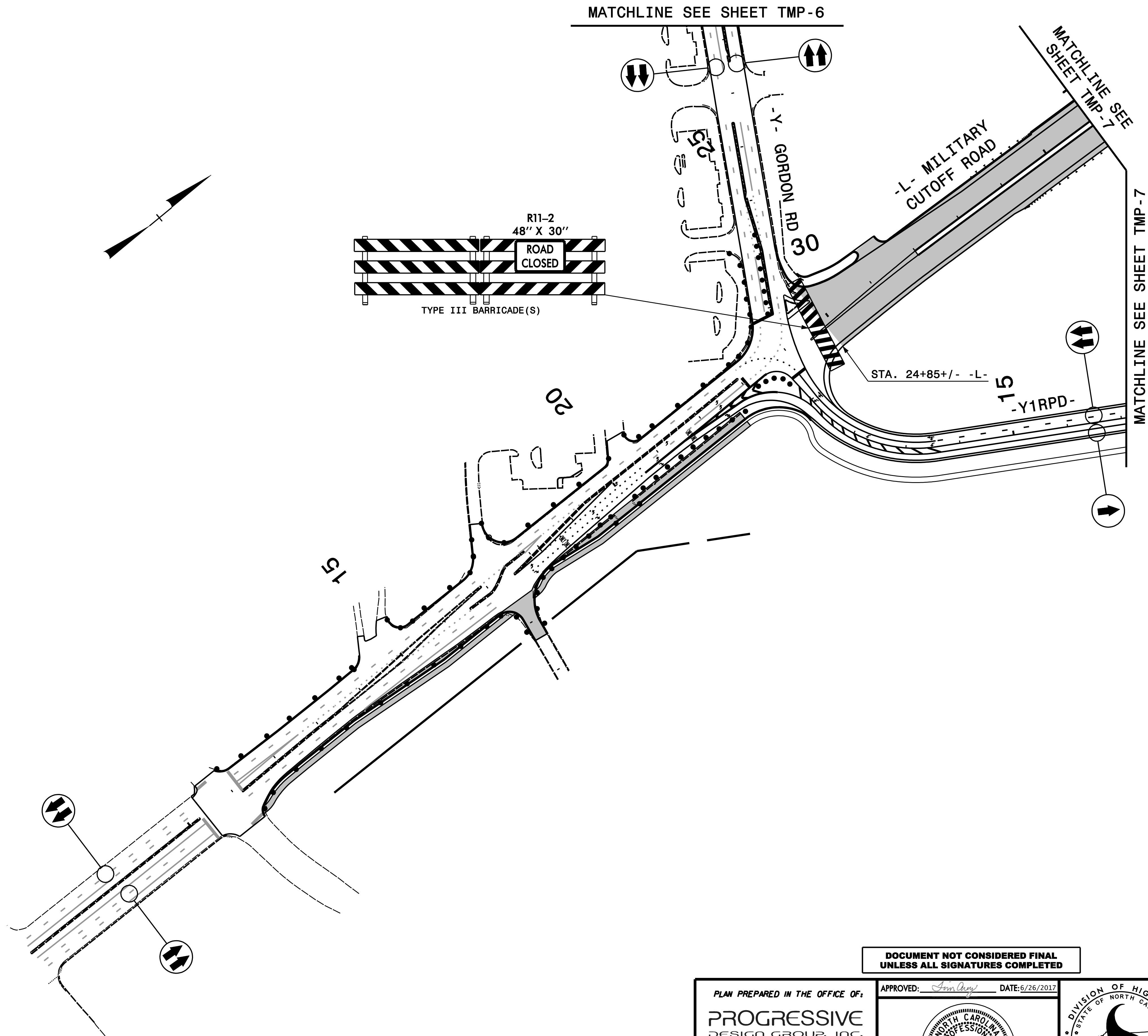
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SEAL 025465  
TIM AREY

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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

TRANSPORTATION  
MANAGEMENT PLAN  
PHASE II OVERVIEWS  
AREA 1



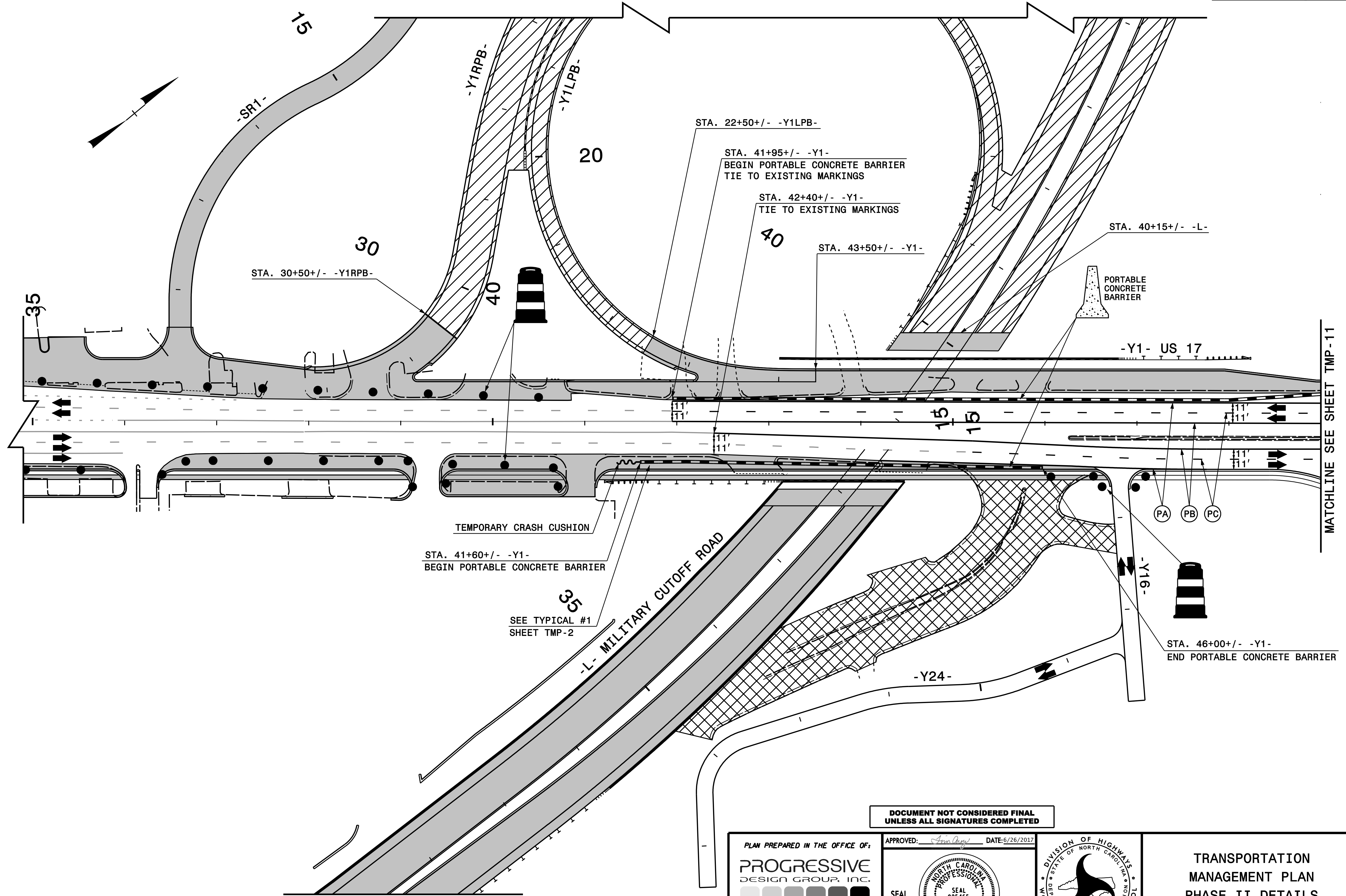
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TRANSPORTATION  
MANAGEMENT PLAN  
PHASE II OVERVIEWS  
AREA 1



MATCHLINE SEE SHEET TMP-11

MATCHLINE SEE SHEET TMP-12

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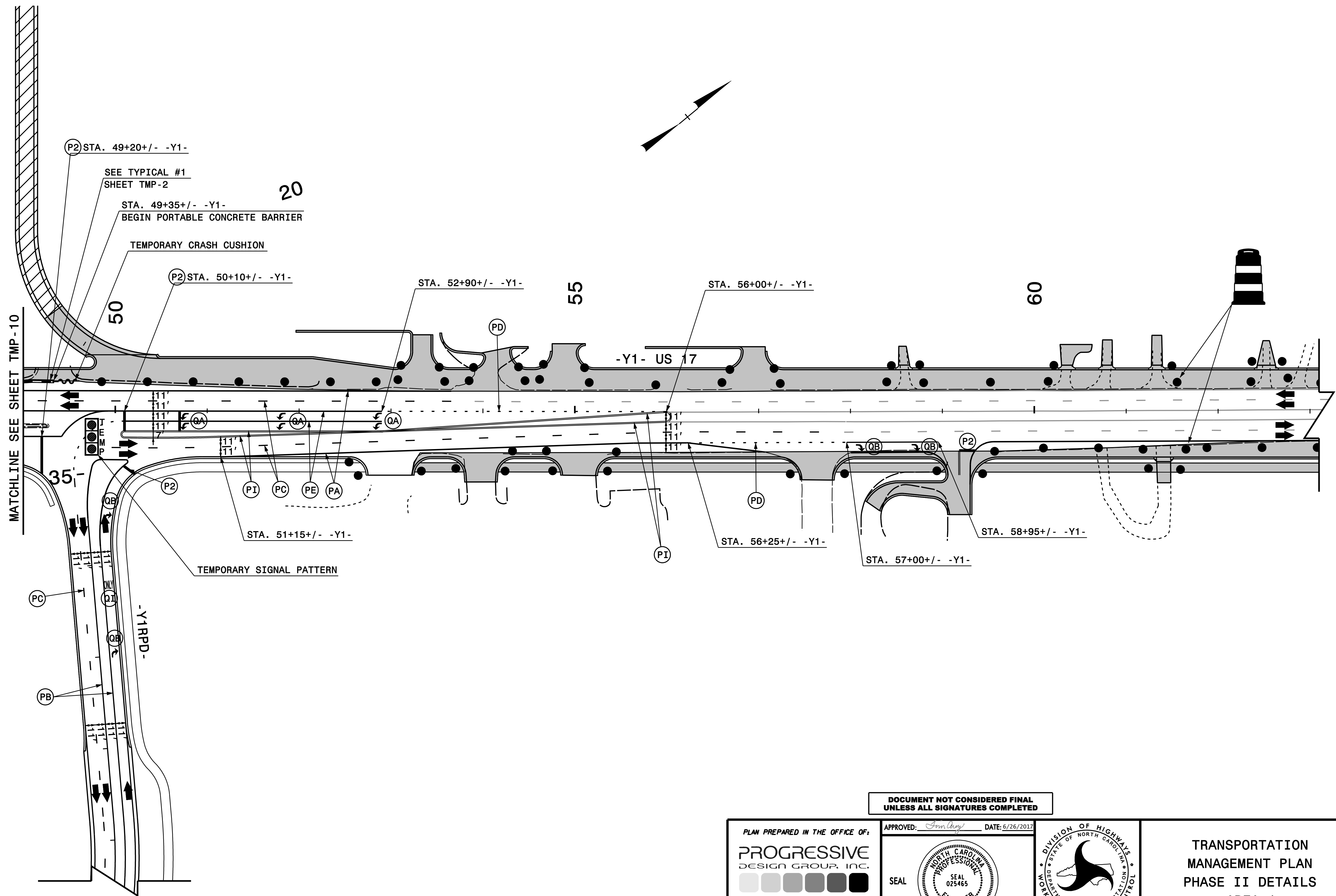
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**TRANSPORTATION  
MANAGEMENT PLAN  
PHASE II DETAILS  
AREA 1**





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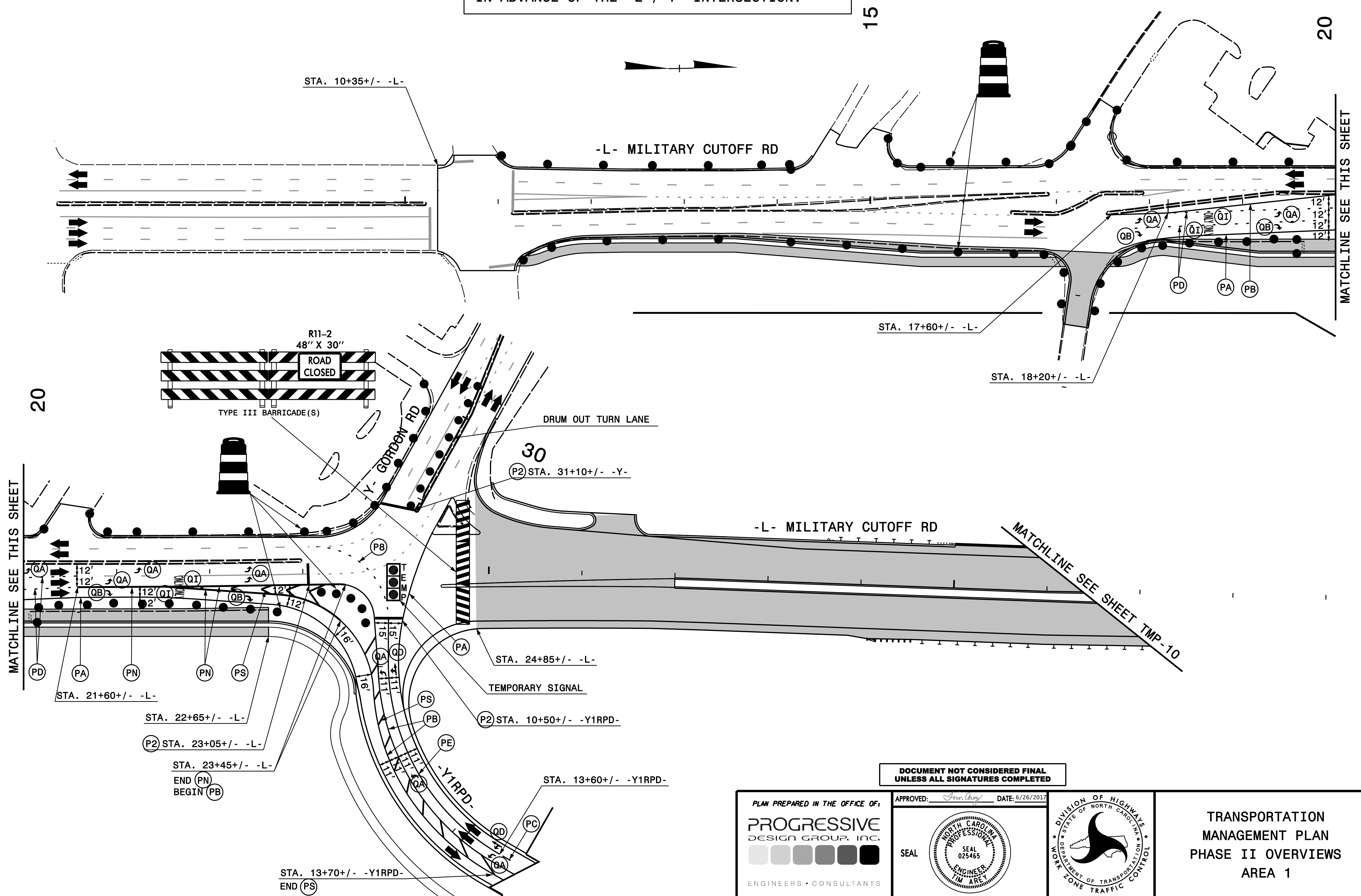
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TRANSPORTATION  
 MANAGEMENT PLAN  
 PHASE II DETAILS  
 AREA 1

INSTALL TEMPORARY GUIDE SIGNS SHOWN ON SHEET TMP-2 AT APPROXIMATELY 2000 FT AND 1 MILE IN ADVANCE OF THE -L-/-Y- INTERSECTION.



MATCHLINE SEE THIS SHEET

MATCHLINE SEE THIS SHEET

MATCHLINE SEE SHEET TMP-10

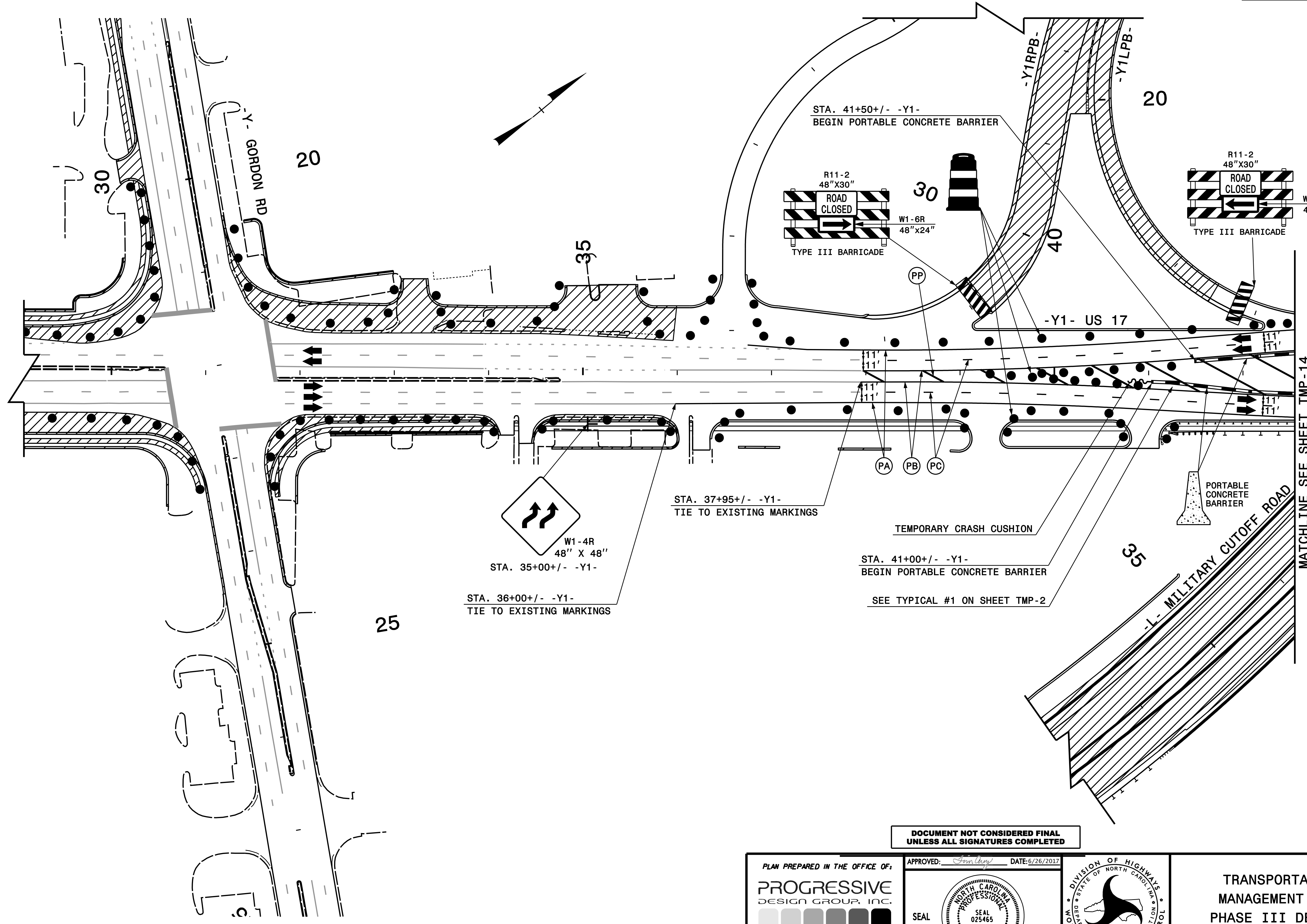
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TRANSPORTATION  
MANAGEMENT PLAN  
PHASE II OVERVIEWS  
AREA 1



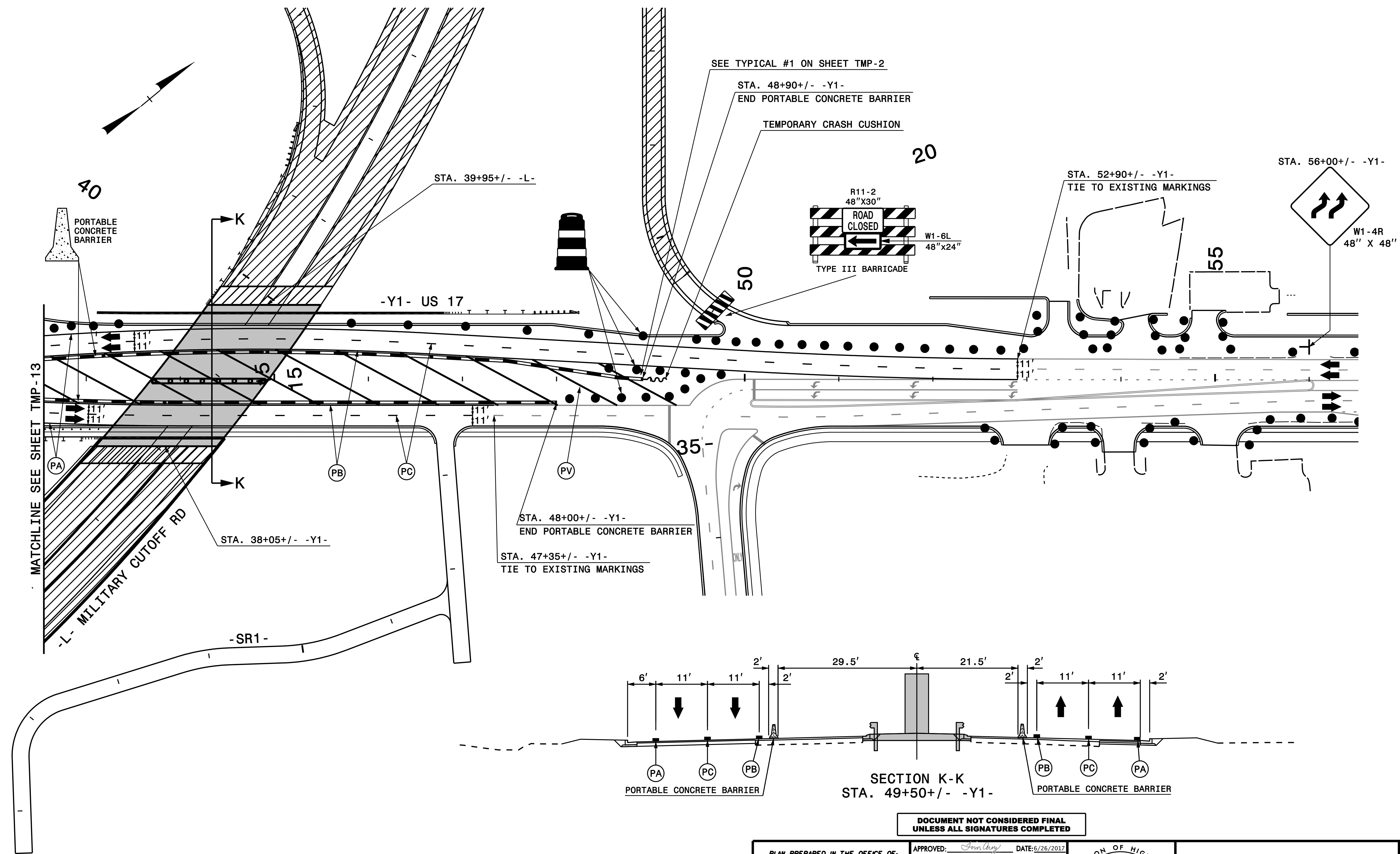
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DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

TRANSPORTATION  
MANAGEMENT PLAN  
PHASE III DETAILS  
AREA 1



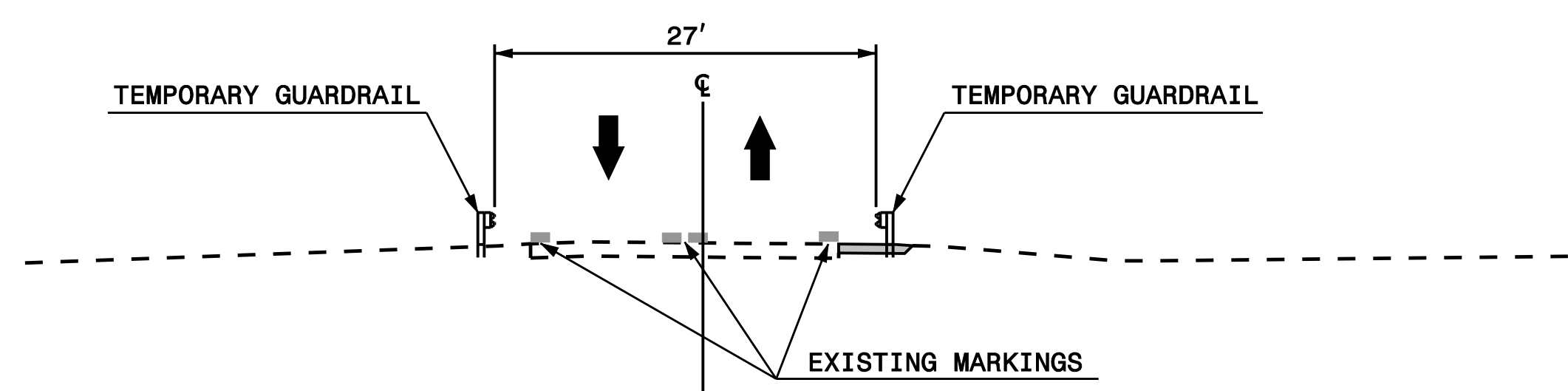
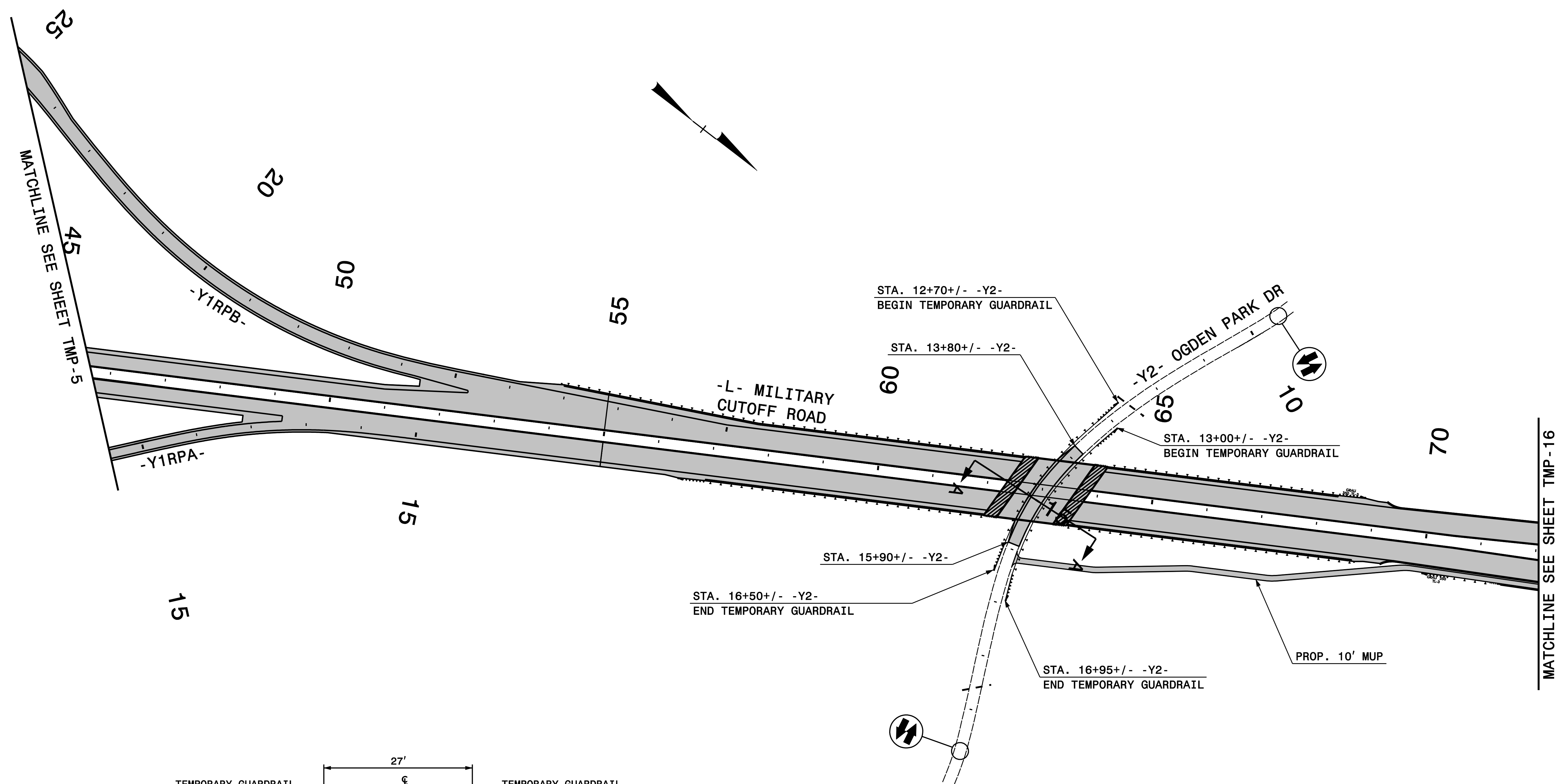
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TRANSPORTATION  
MANAGEMENT PLAN  
PHASE III DETAILS  
AREA 1



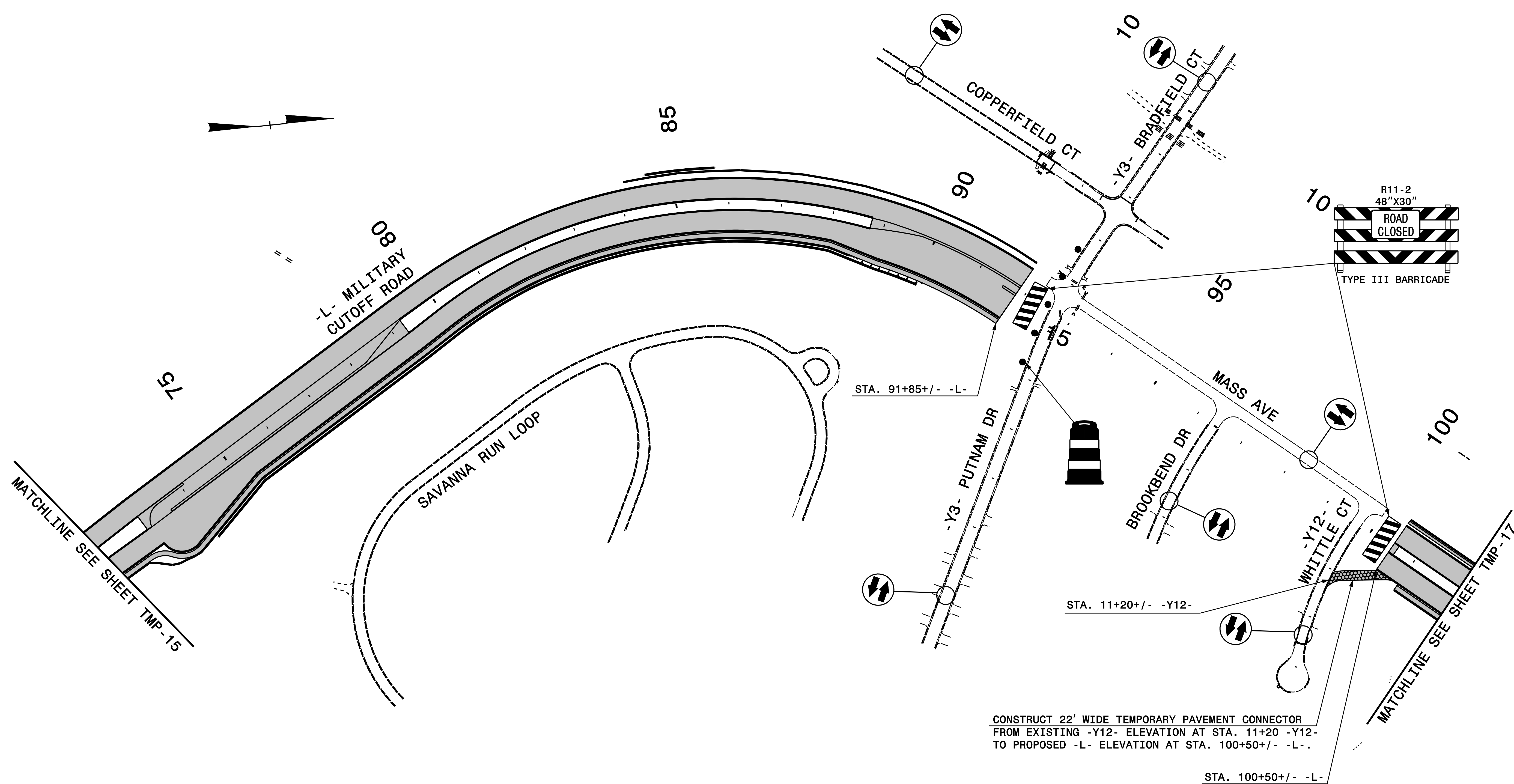
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TRANSPORTATION  
 MANAGEMENT PLAN  
 PHASE I OVERVIEWS  
 AREA 2



CONSTRUCT 22' WIDE TEMPORARY PAVEMENT CONNECTOR FROM EXISTING -Y12- ELEVATION AT STA. 11+20 -Y12- TO PROPOSED -L- ELEVATION AT STA. 100+50+/- -L-.

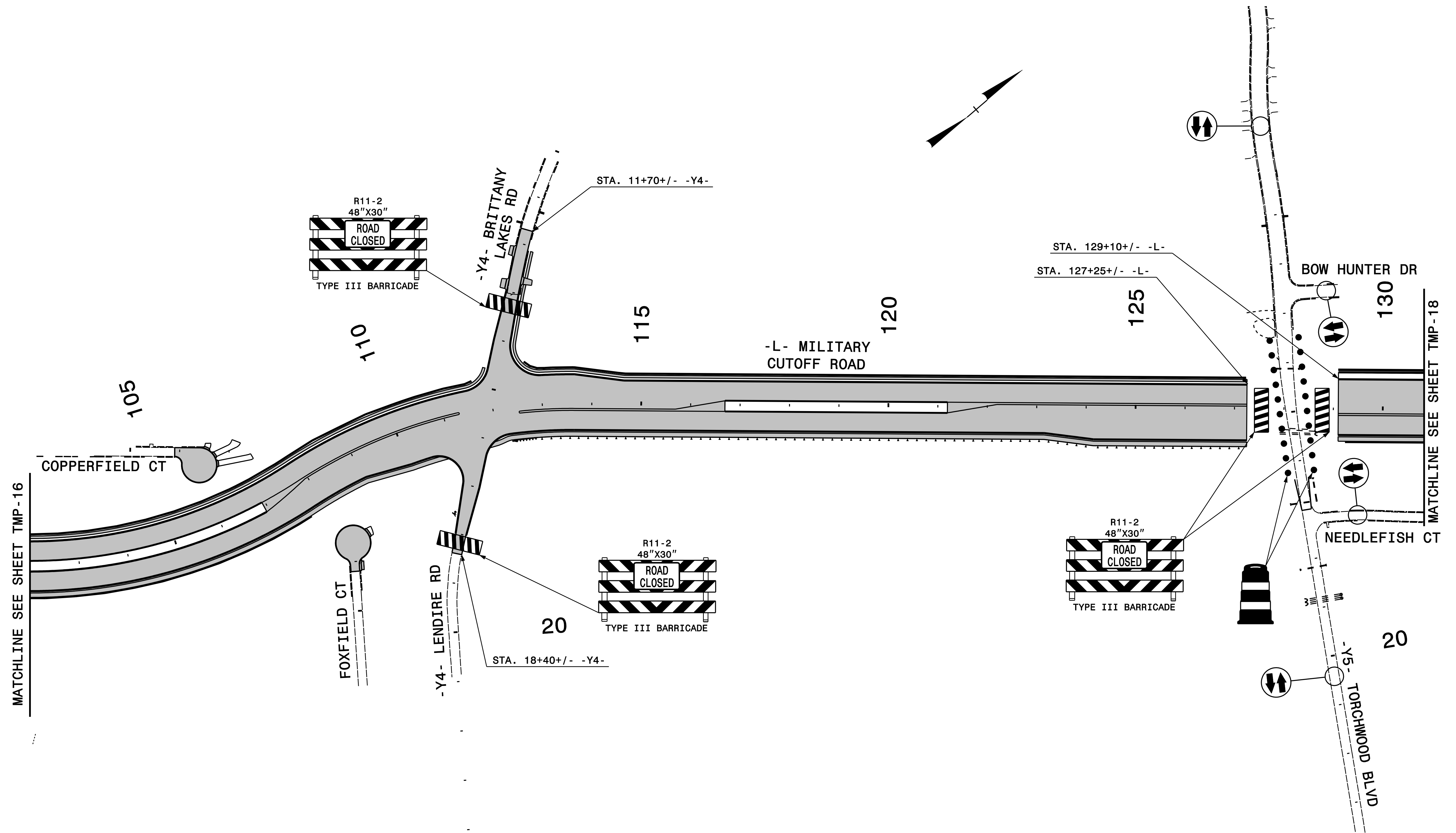
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 STATE OF NORTH CAROLINA  
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 WORK ZONE TRAFFIC CONTROL

TRANSPORTATION MANAGEMENT PLAN  
 PHASE I OVERVIEWS  
 AREA 2



MATCHLINE SEE SHEET TMP-16

MATCHLINE SEE SHEET TMP-18

25

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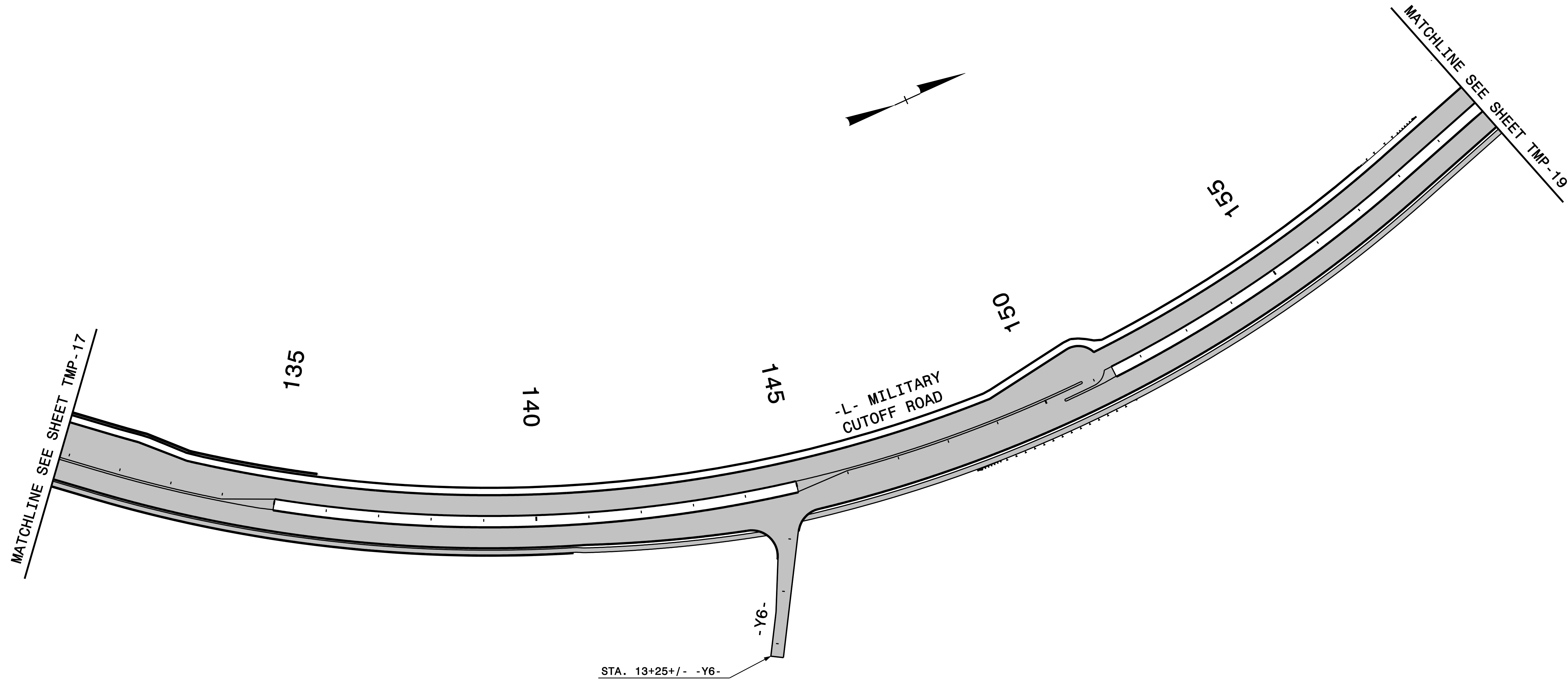
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TIM AREY

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TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I OVERVIEWS  
AREA 2



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TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I OVERVIEWS  
AREA 2



MATCHLINE SEE SHEET TMP-18

165

170

-L- MILITARY  
CUTOFF ROAD

175

180

185

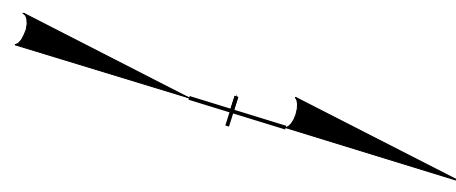
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-SR4-

15

25

MATCHLINE SEE SHEET TMP-20



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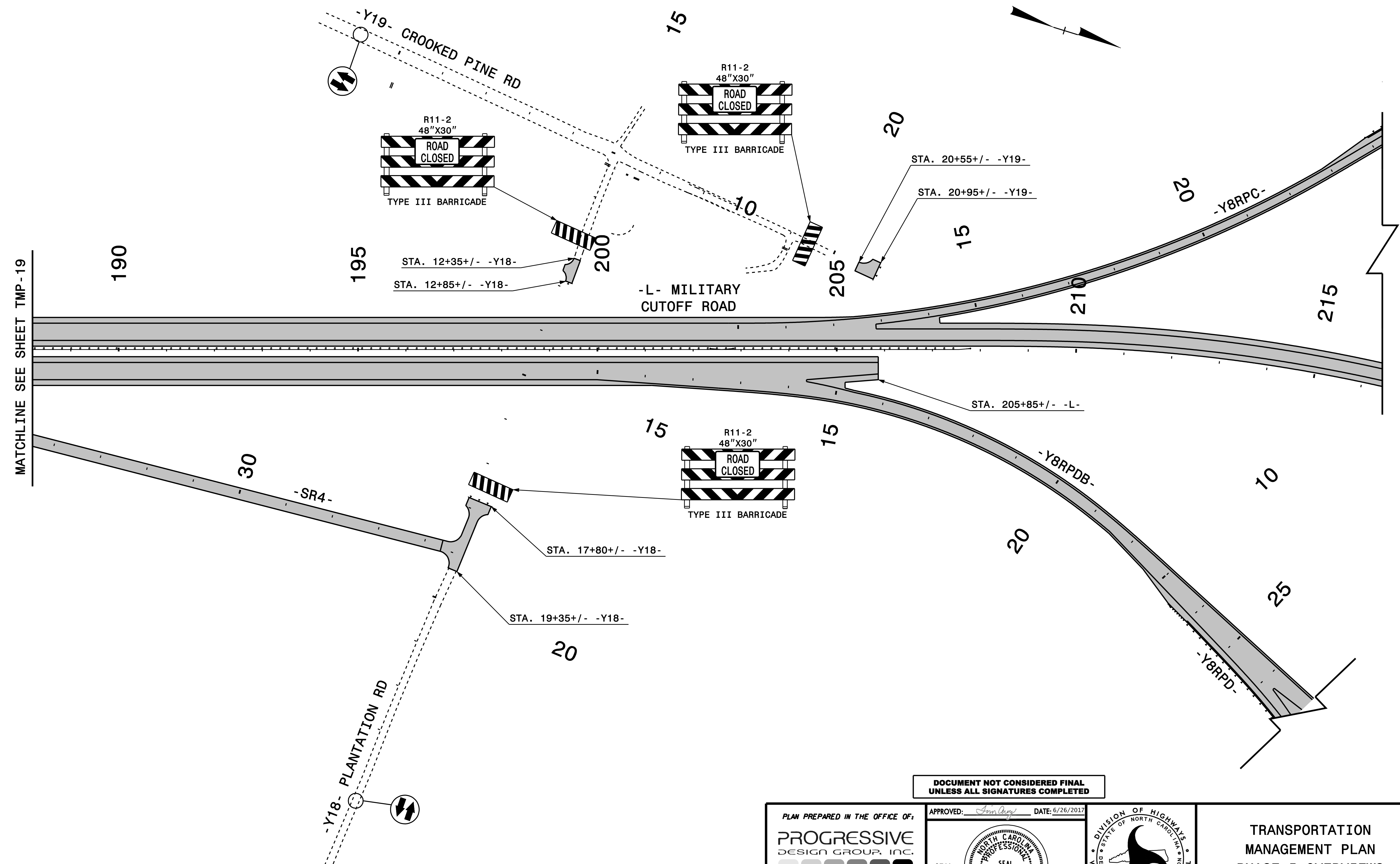
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MANAGEMENT PLAN  
PHASE I OVERVIEWS  
AREA 2

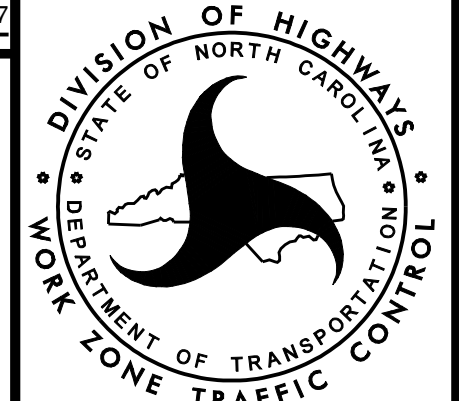
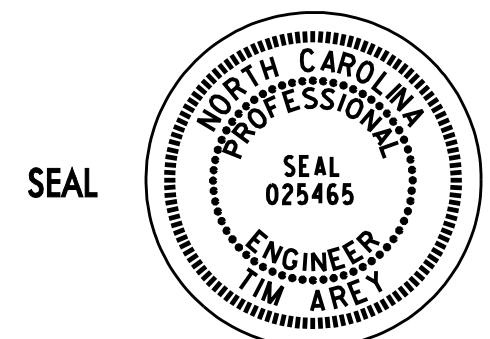


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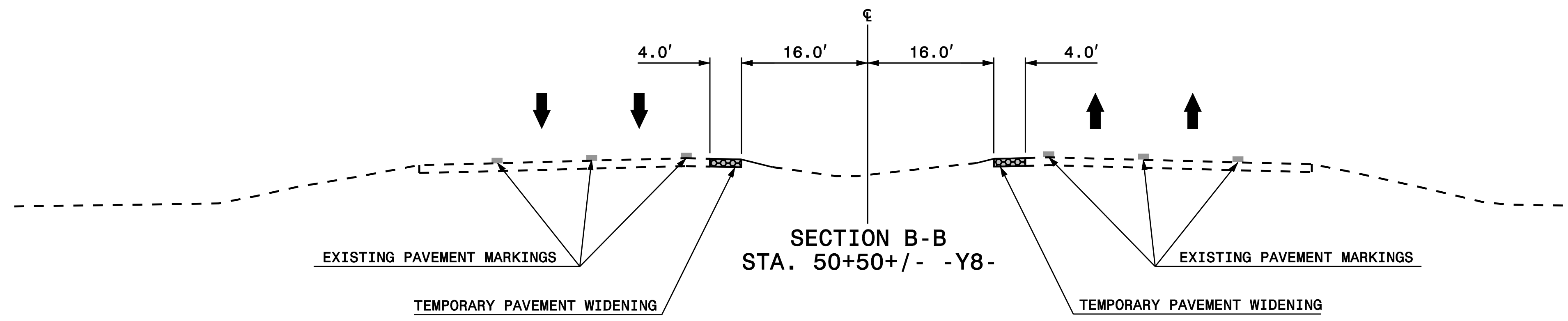
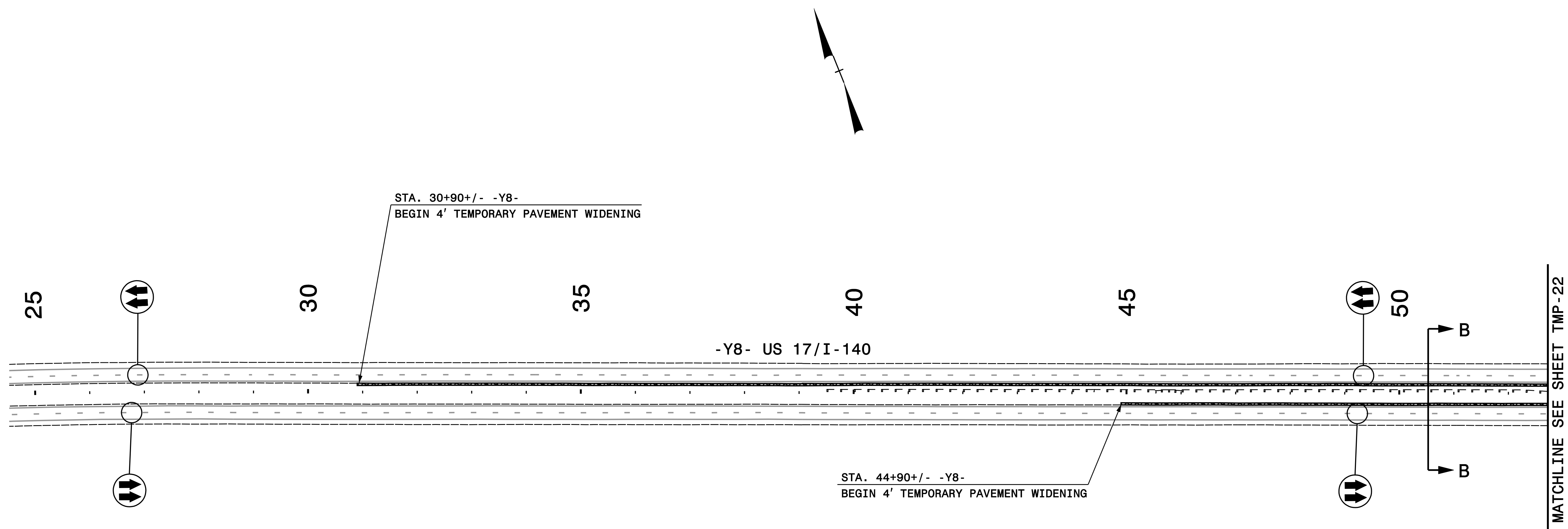
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TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I OVERVIEWS  
AREA 2



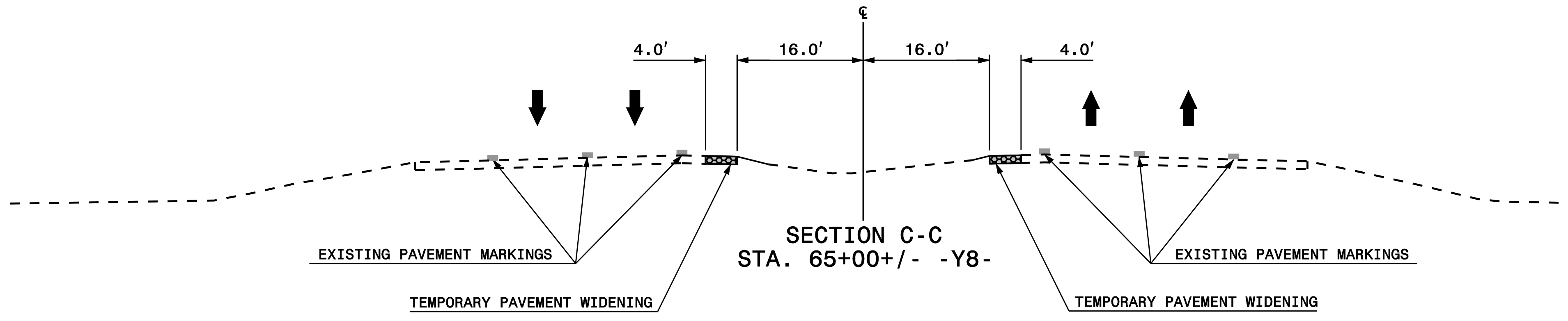
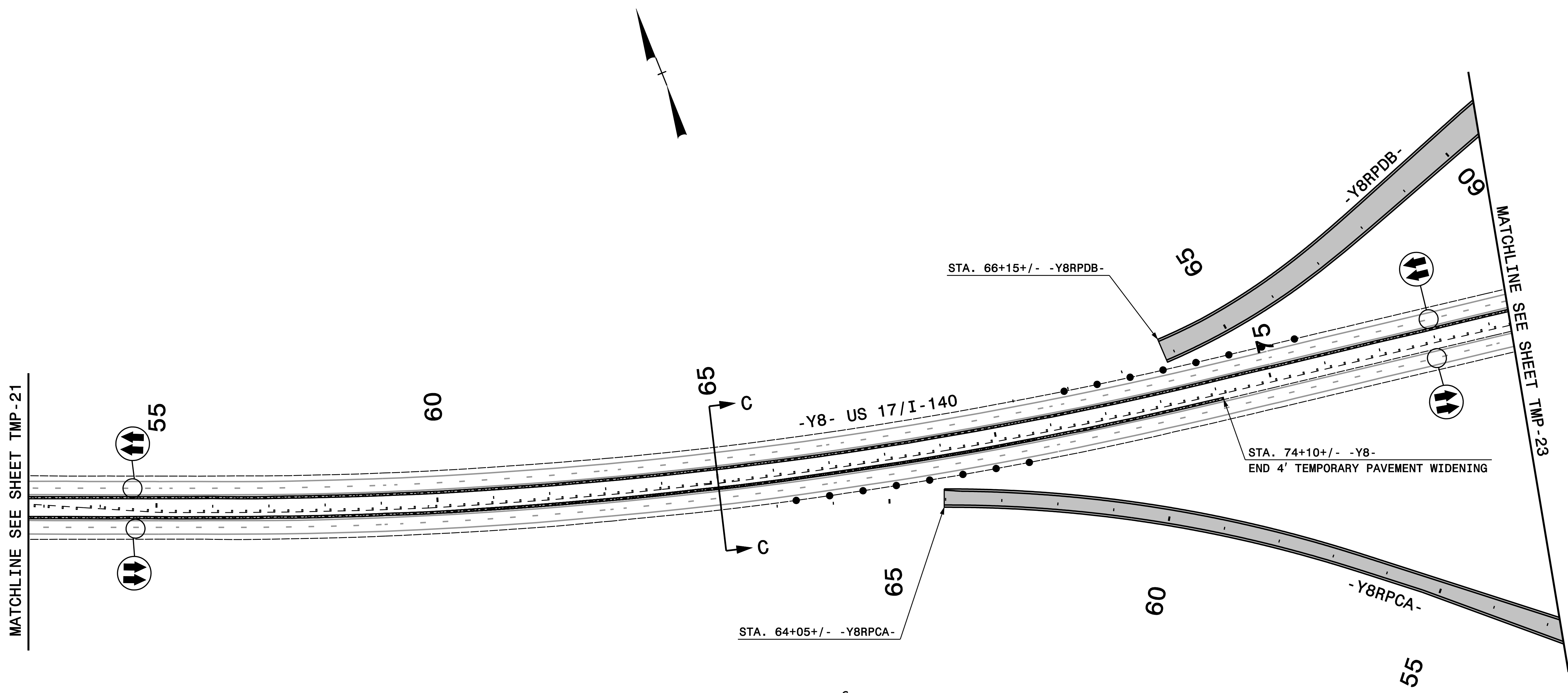
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SEAL 025465  
TIM ARELLANO

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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I OVERVIEWS  
AREA 2



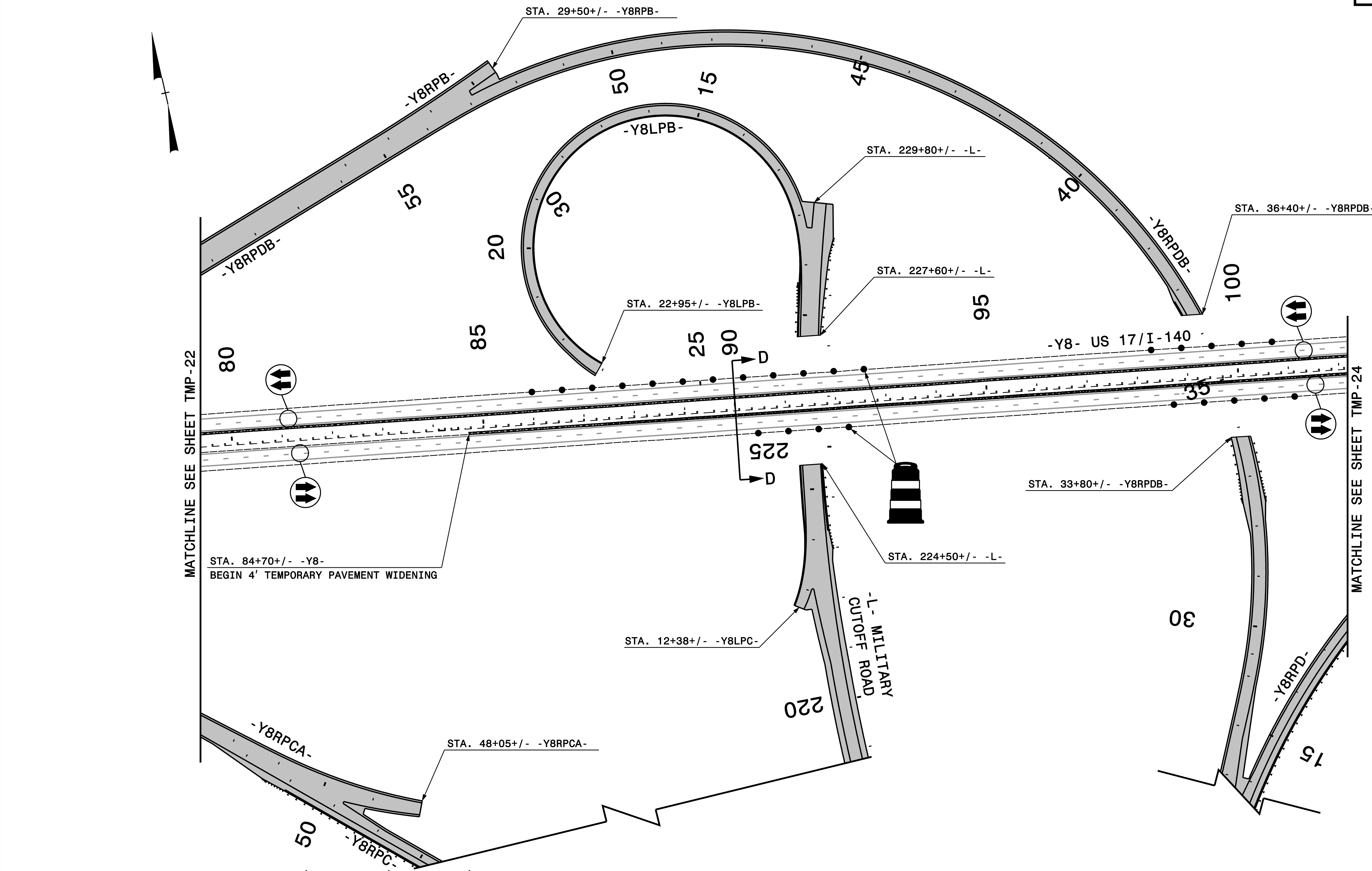
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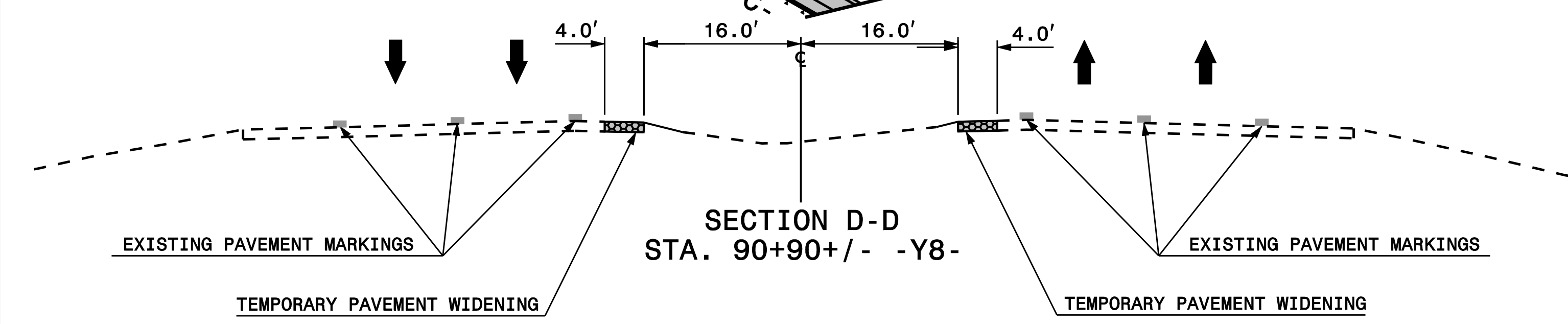
TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I OVERVIEWS  
AREA 2



MATCHLINE SEE SHEET TMP-22

MATCHLINE SEE SHEET TMP-24

STA. 84+70 +/- -Y8-  
BEGIN 4' TEMPORARY PAVEMENT WIDENING



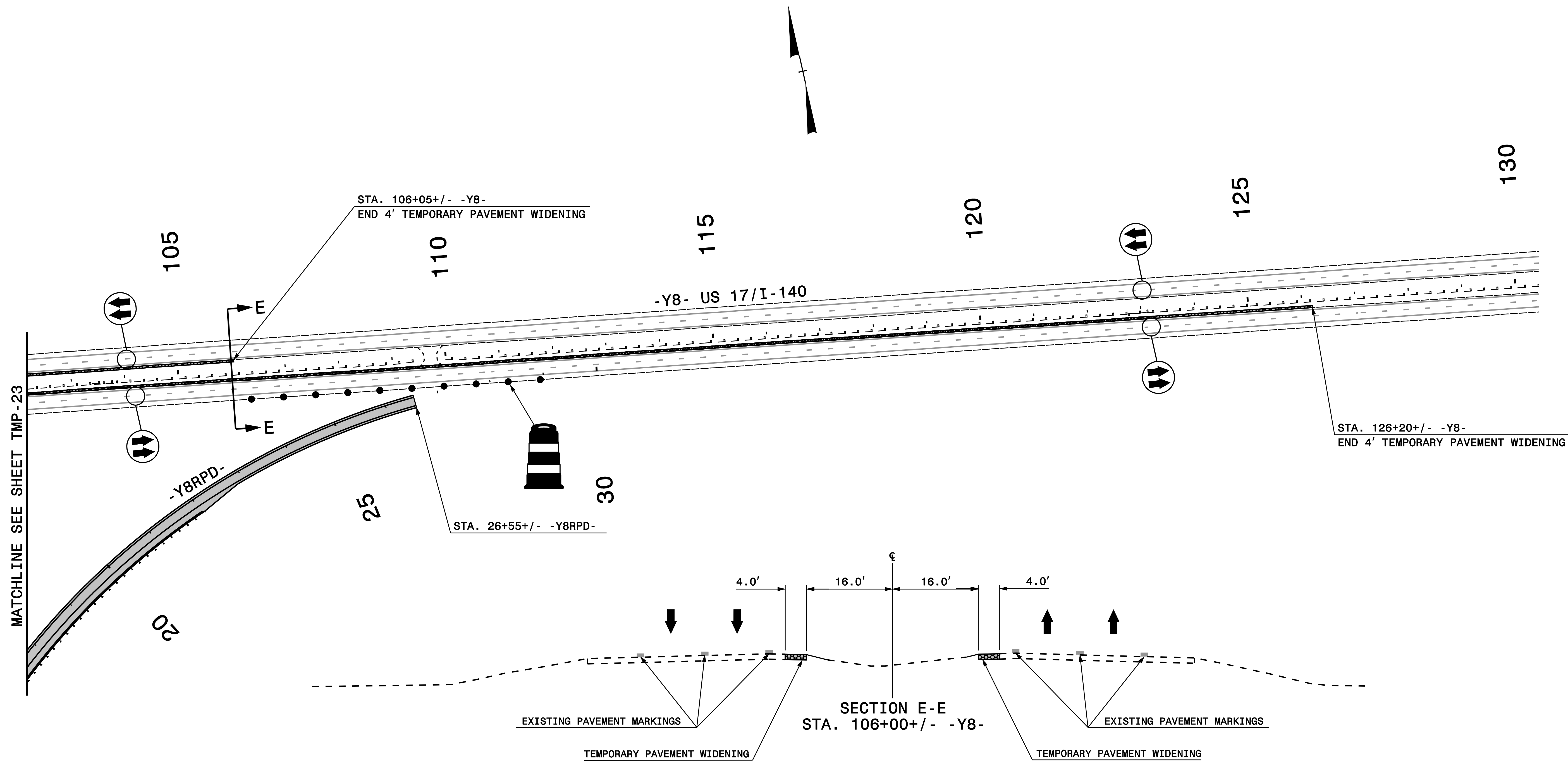
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DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

**TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I OVERVIEWS  
AREA 2**

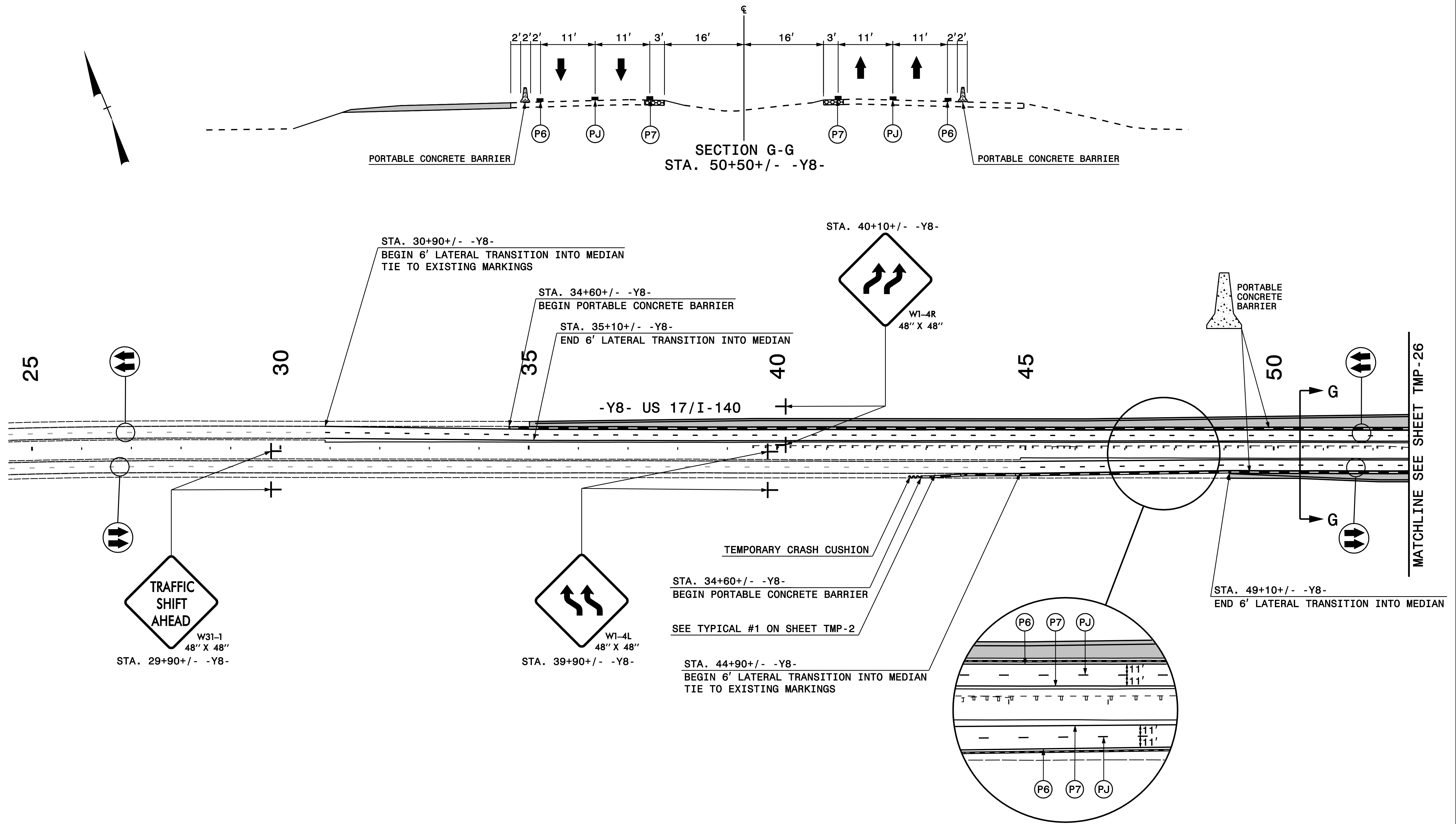


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**TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I OVERVIEWS  
AREA 2**



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THE OFFSET FROM THE PORTABLE CONCRETE BARRIER TO  
THE OUTSIDE EDGELINE IS 2' UNLESS OTHERWISE NOTED.

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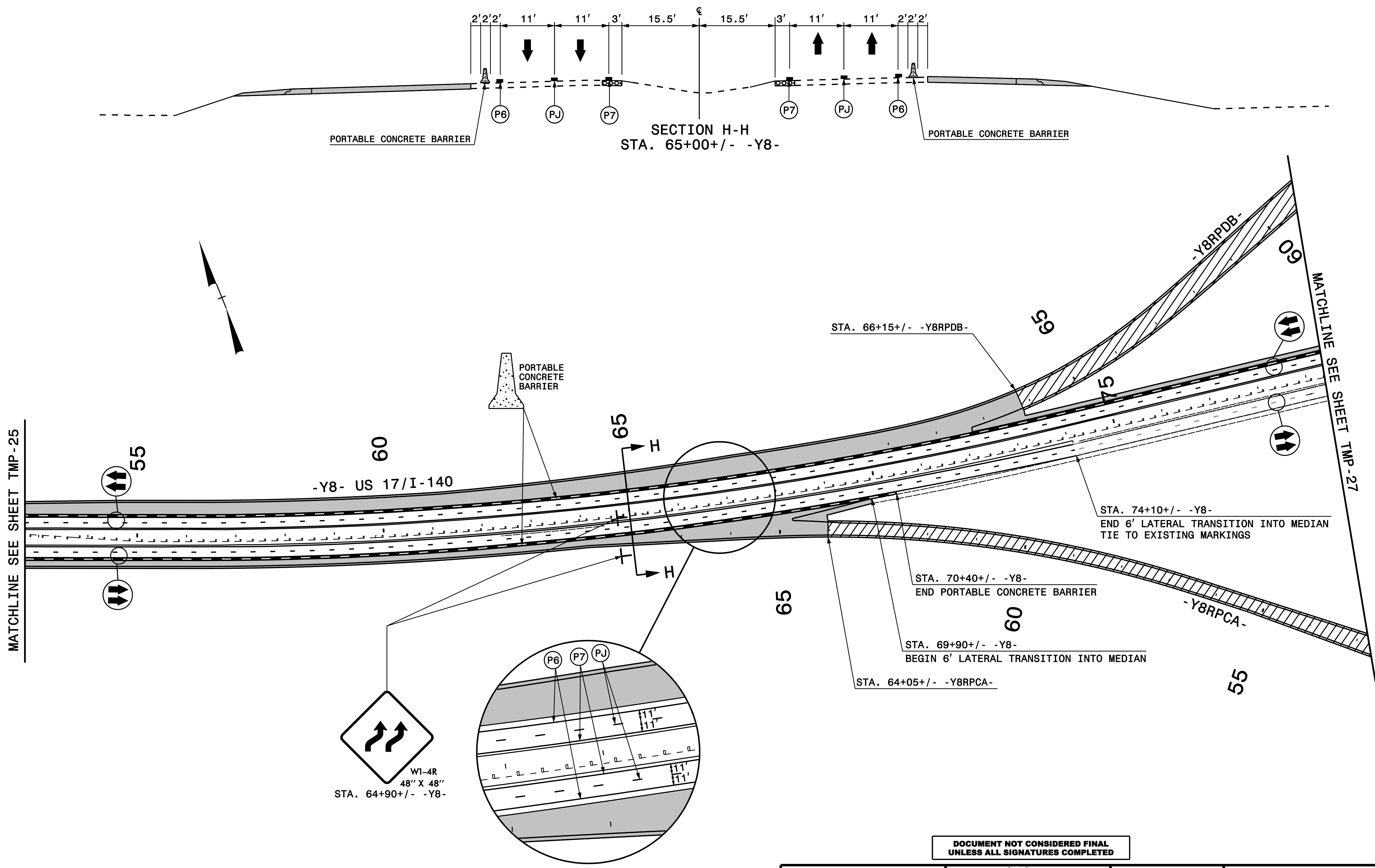
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025465

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TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I OVERVIEWS  
AREA 2



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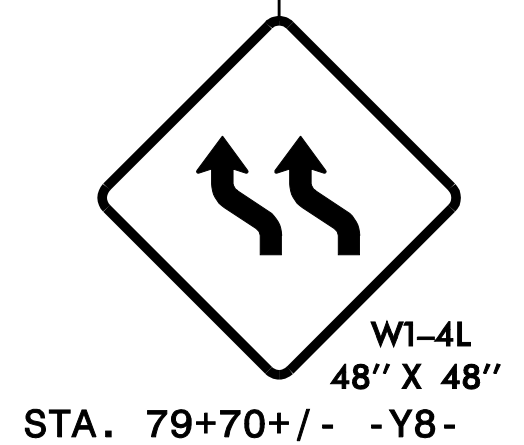
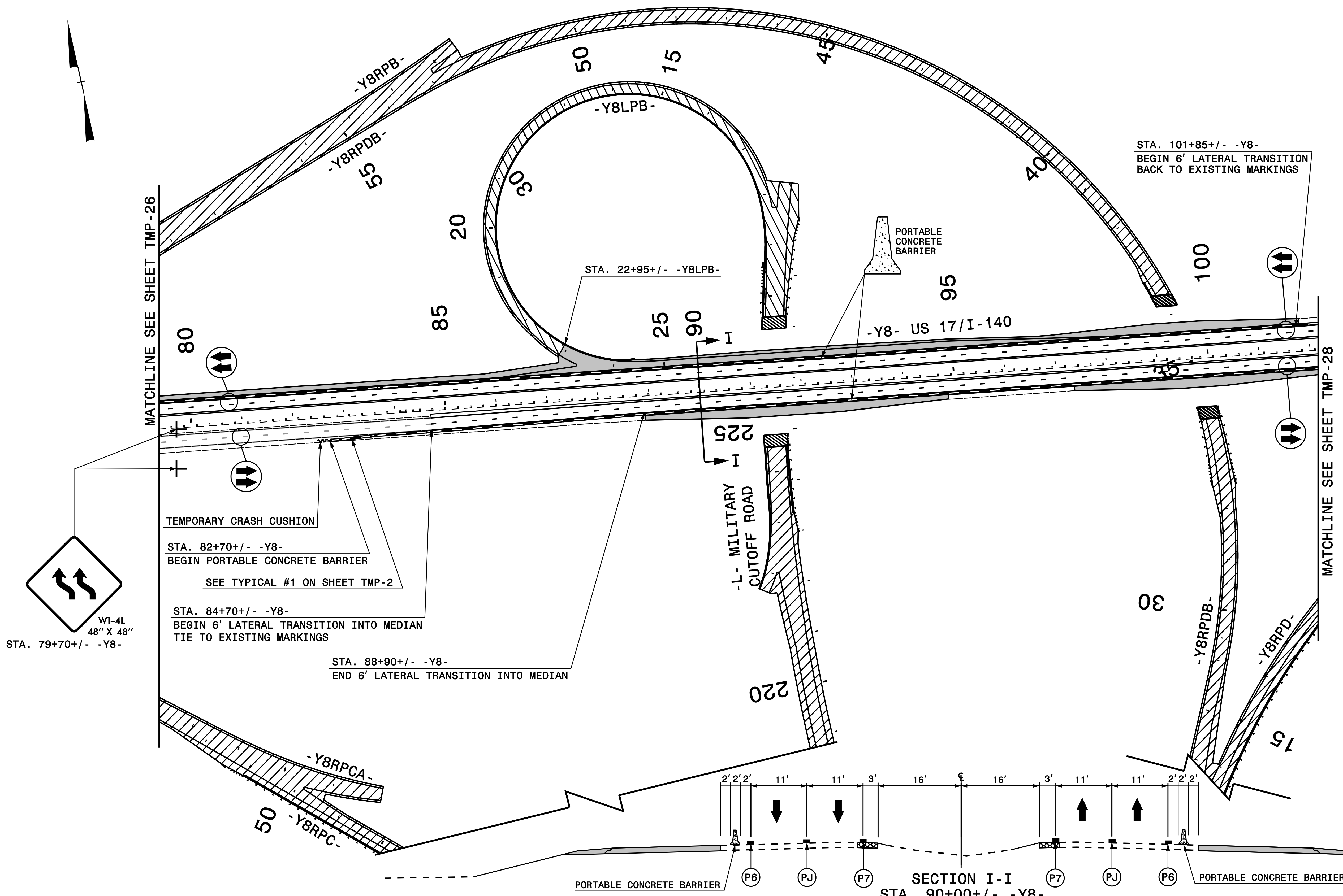
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TIM AREY  
SEAL 025465

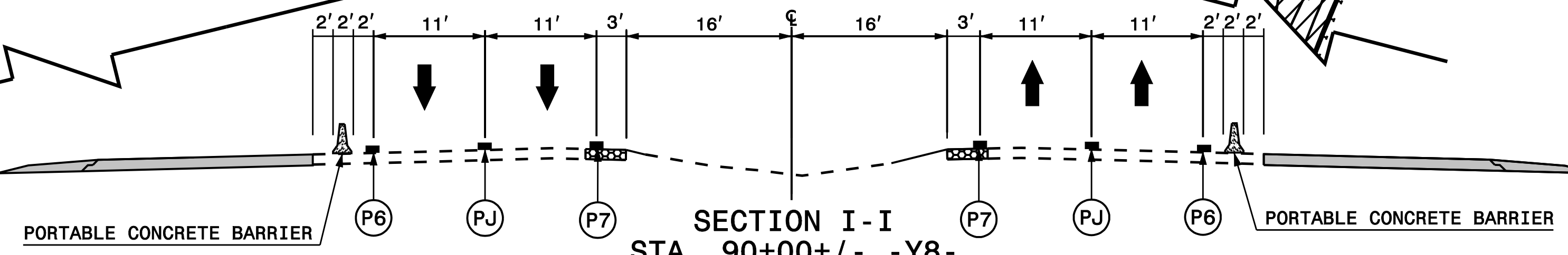
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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I OVERVIEWS  
AREA 2





TEMPORARY CRASH CUSHION  
 STA. 82+70+/- -Y8-  
 BEGIN PORTABLE CONCRETE BARRIER  
 SEE TYPICAL #1 ON SHEET TMP-2  
 STA. 84+70+/- -Y8-  
 BEGIN 6' LATERAL TRANSITION INTO MEDIAN  
 TIE TO EXISTING MARKINGS  
 STA. 88+90+/- -Y8-  
 END 6' LATERAL TRANSITION INTO MEDIAN



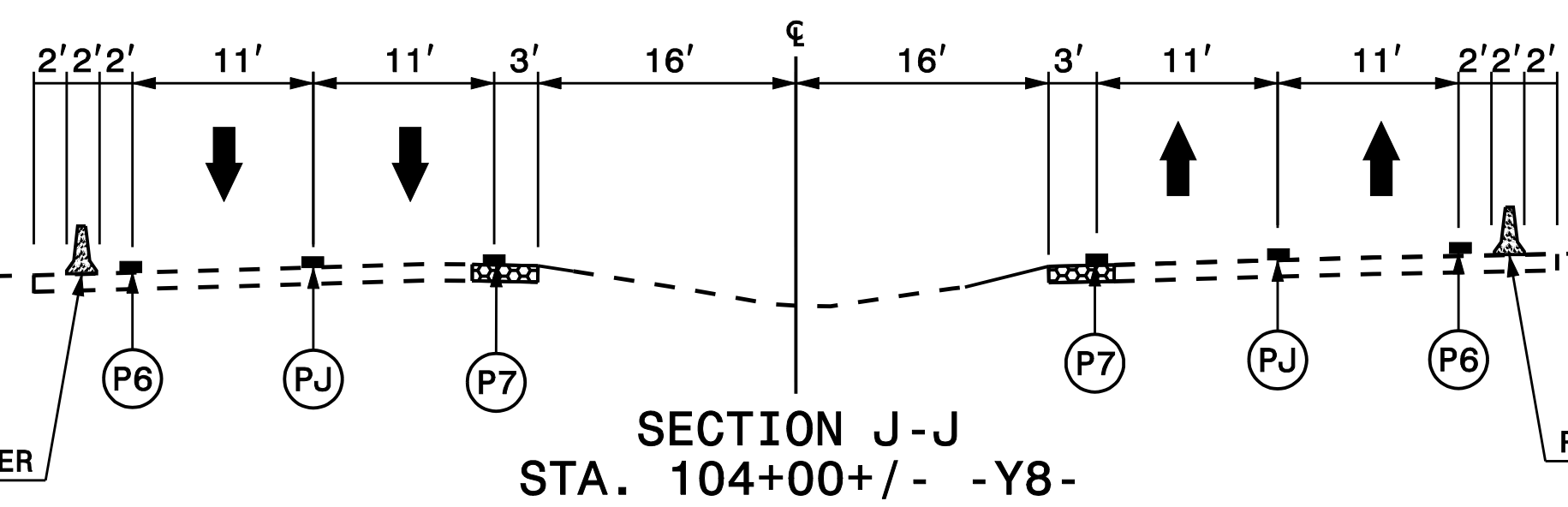
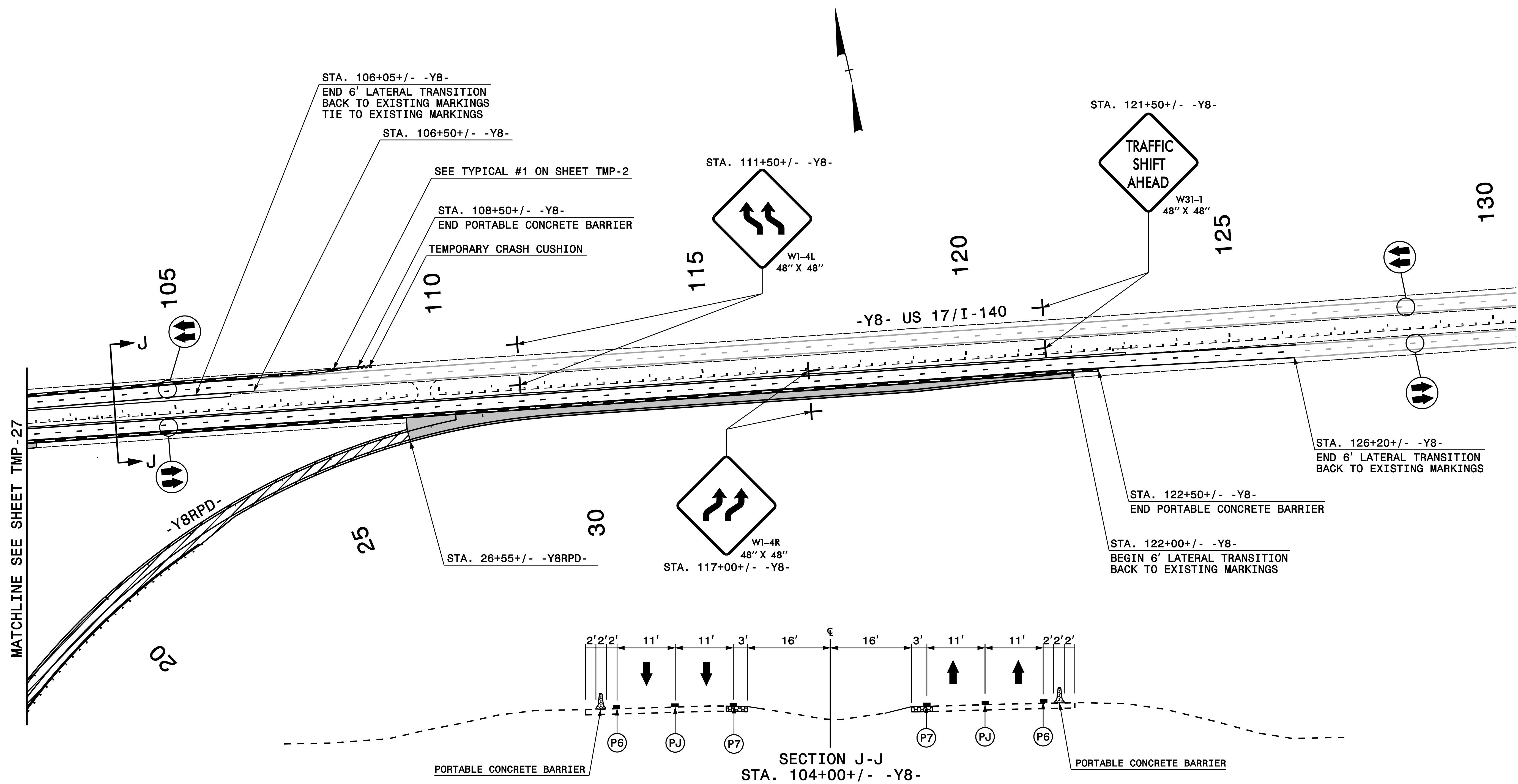
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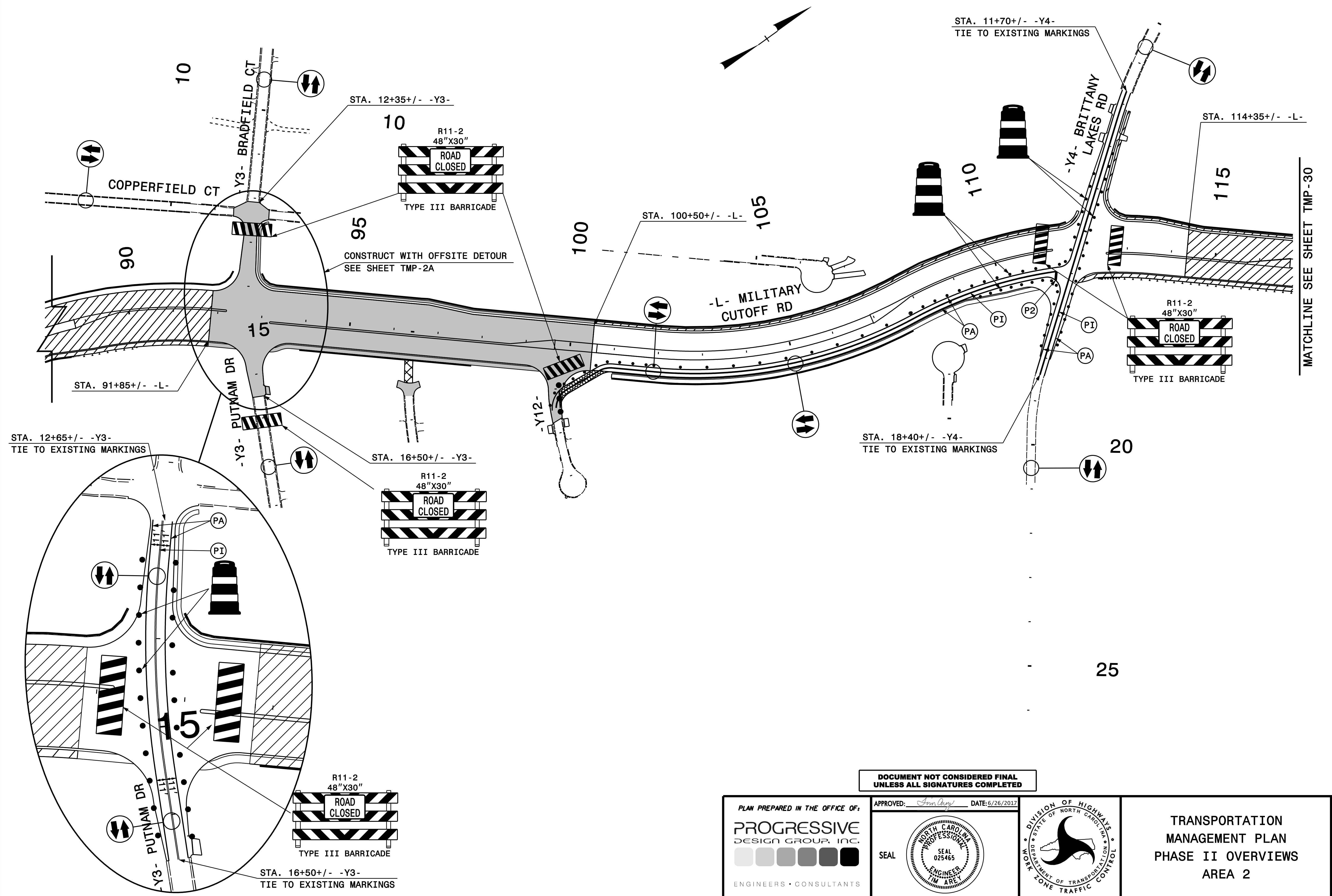
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MATCHLINE SEE SHEET TMP-30

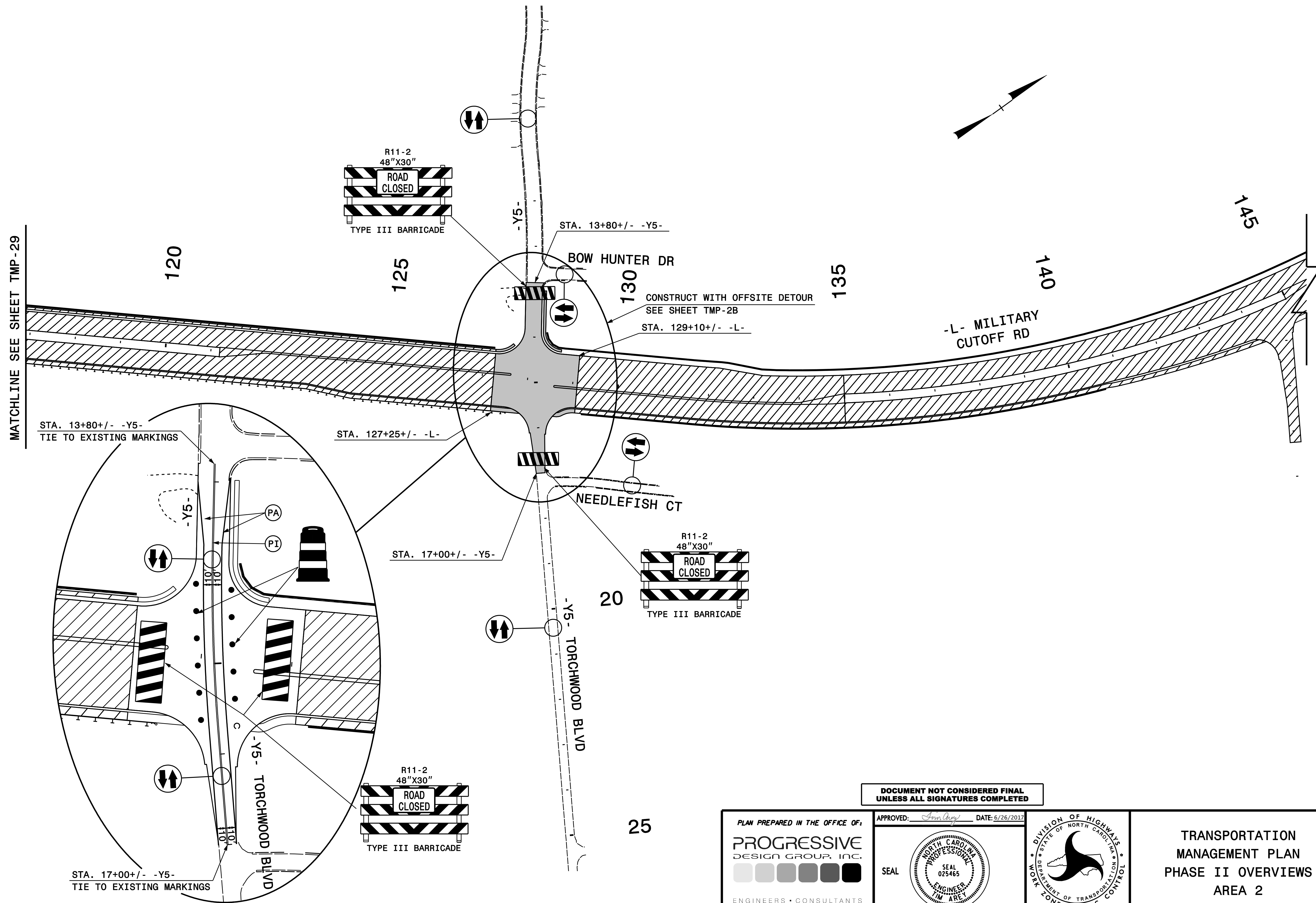
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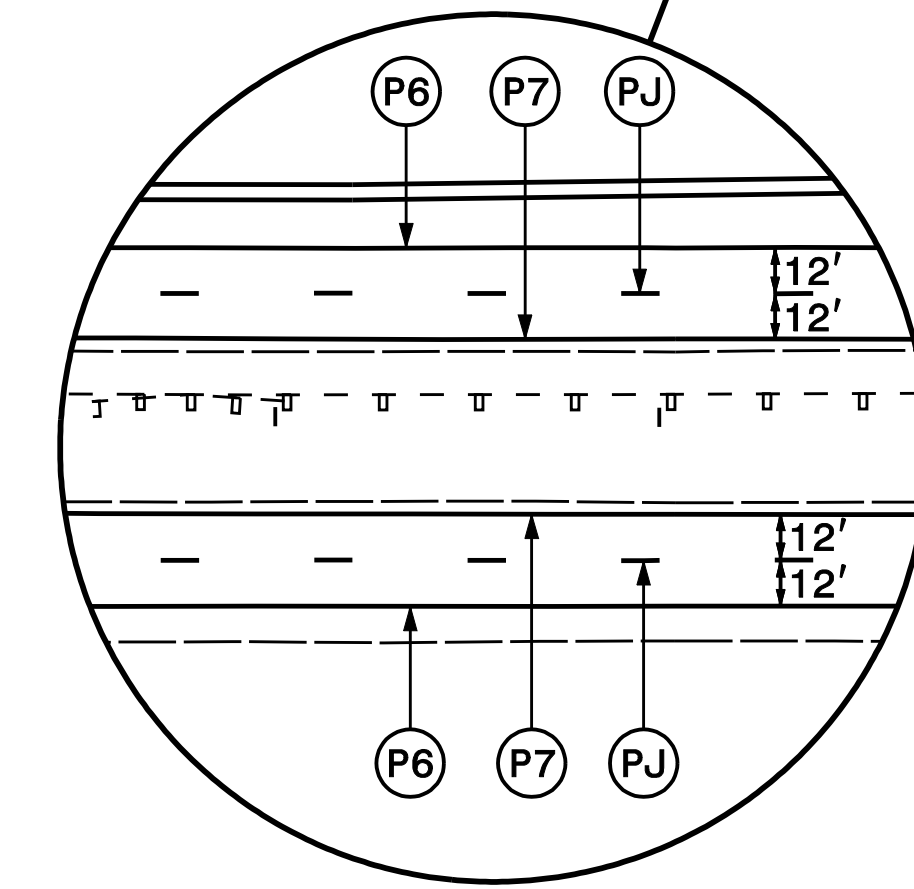
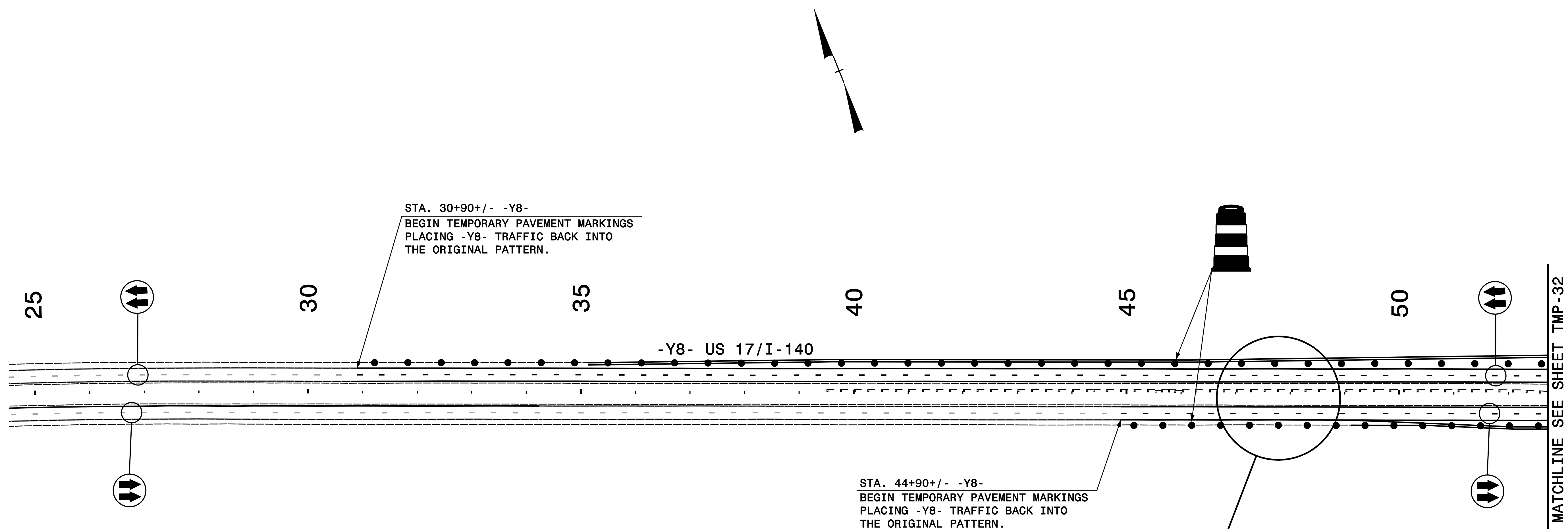
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MATCHLINE SEE SHEET TMP-32

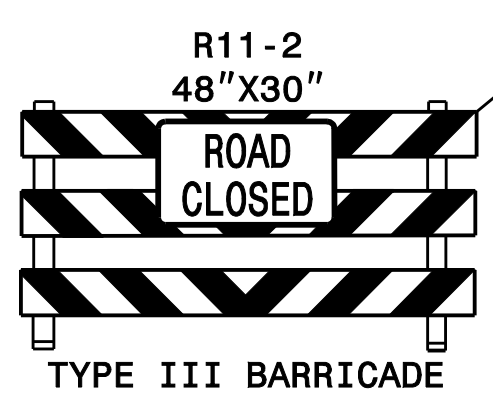
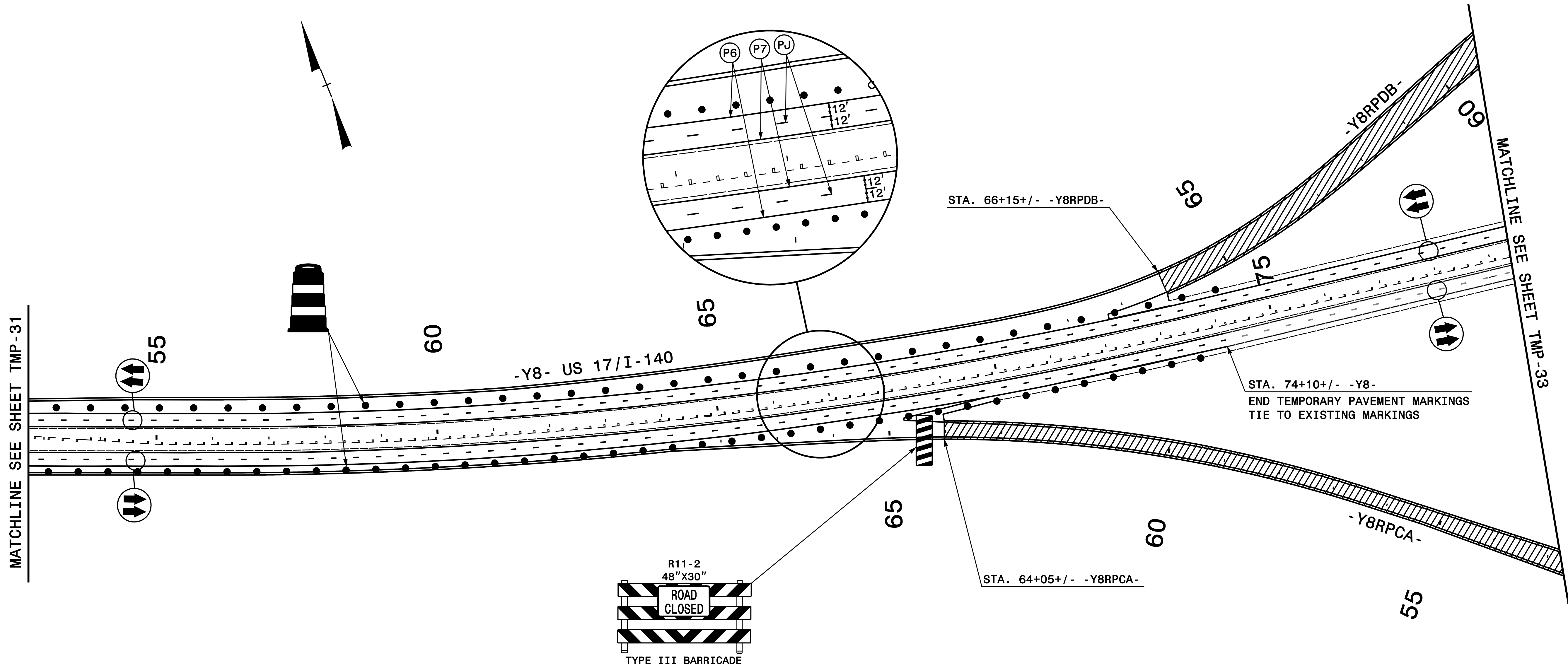
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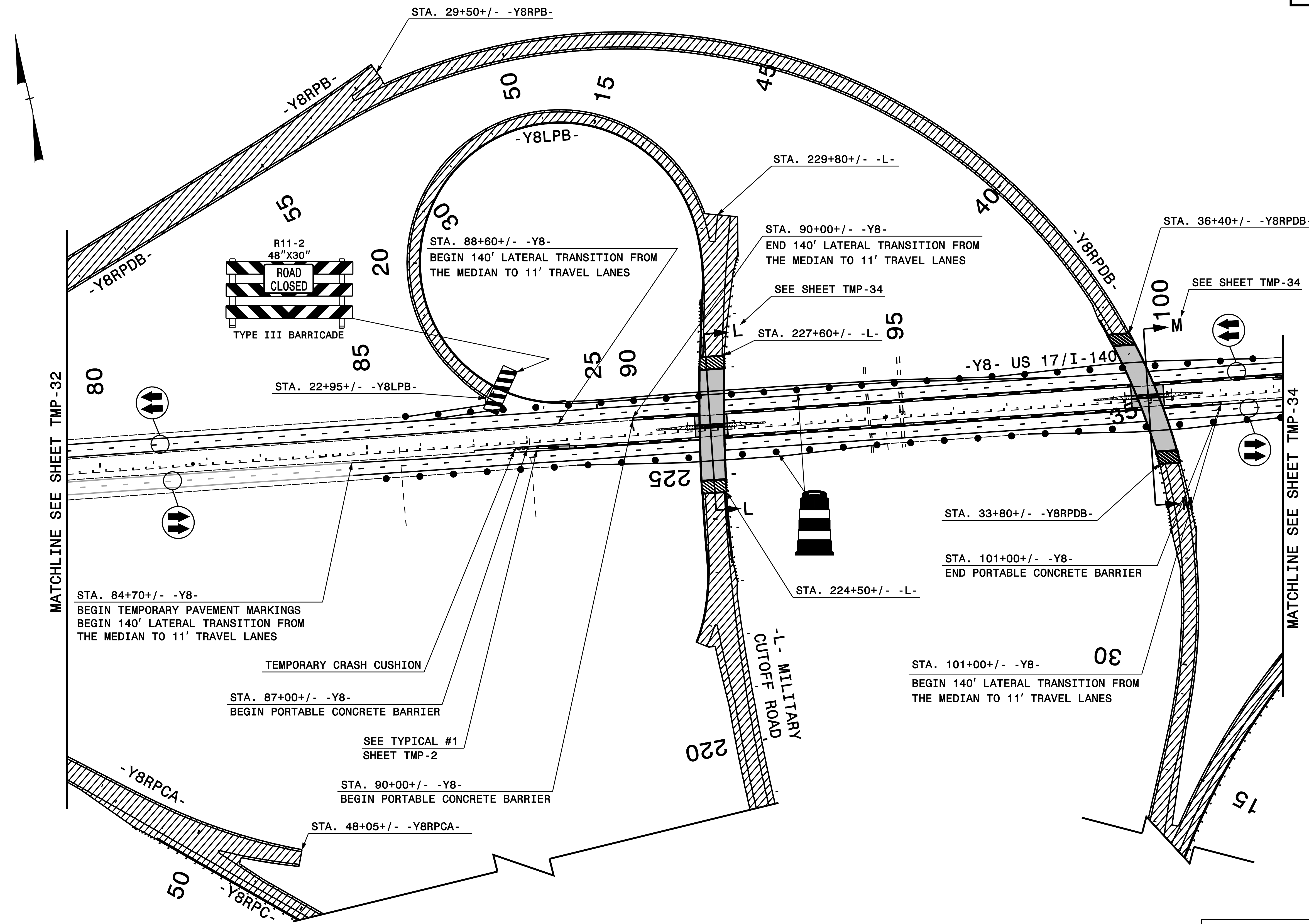
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MATCHLINE SEE SHEET TMP-32

MATCHLINE SEE SHEET TMP-34

NOTE:  
SEE SHEET TMP-34 FOR CROSS SECTIONS.

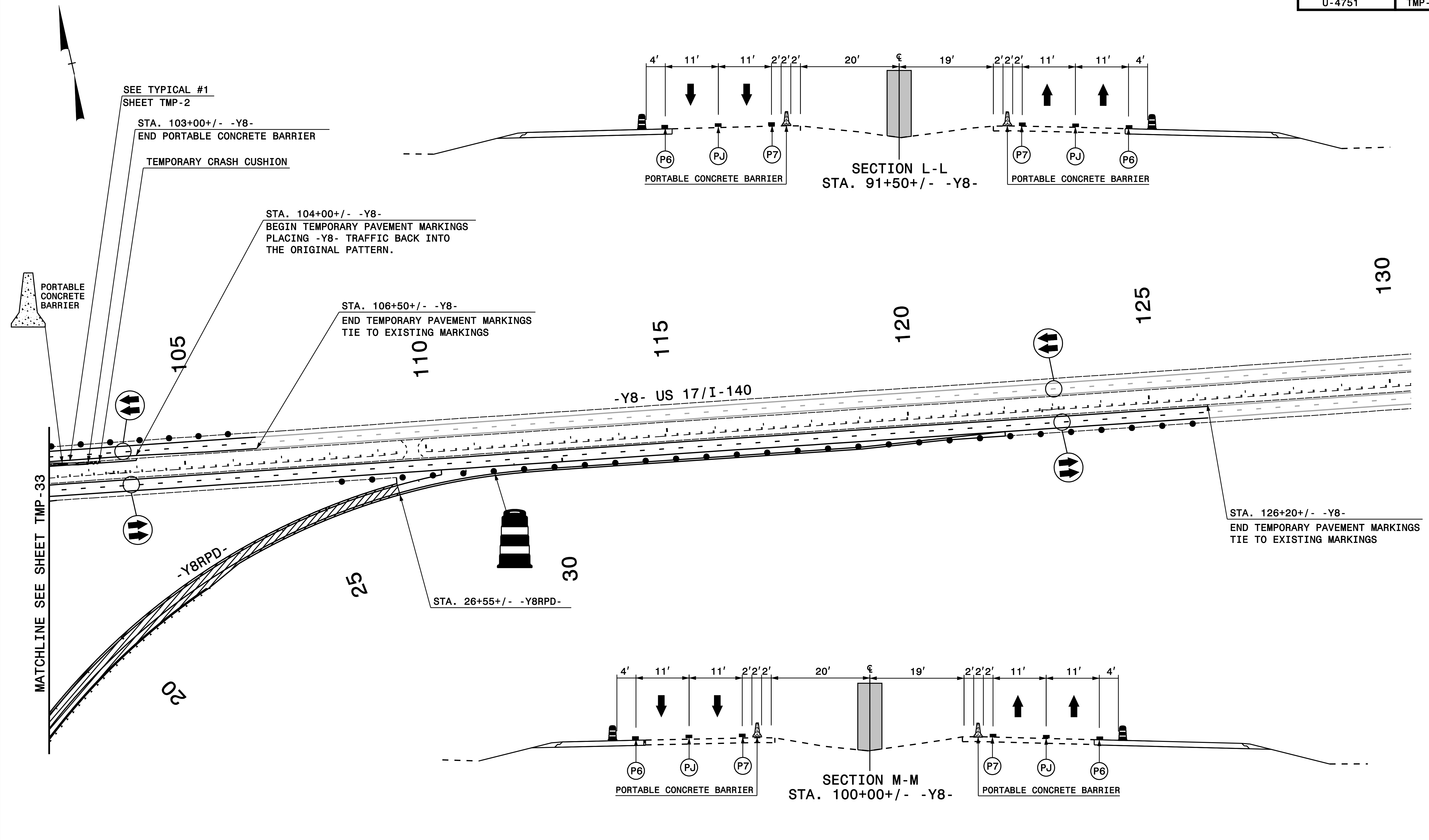
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