

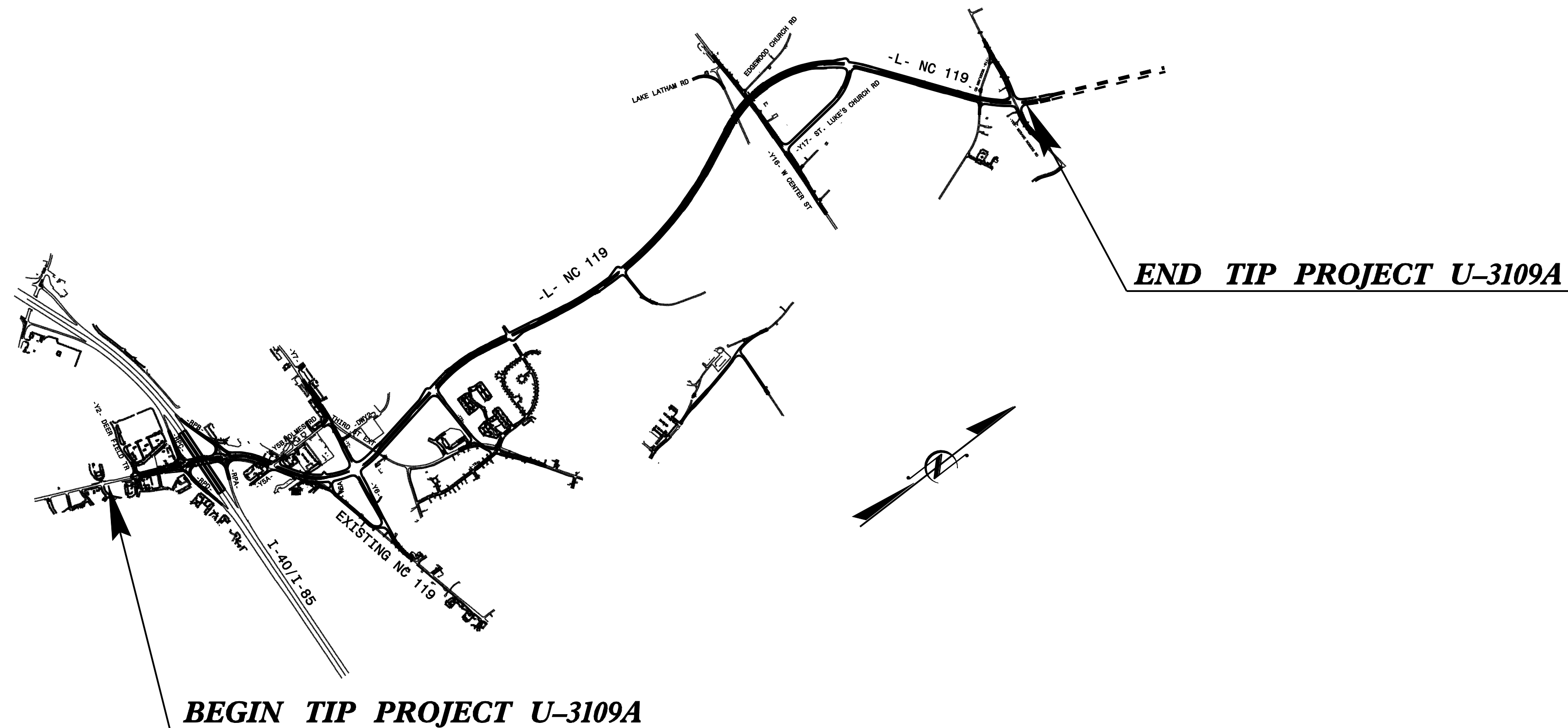
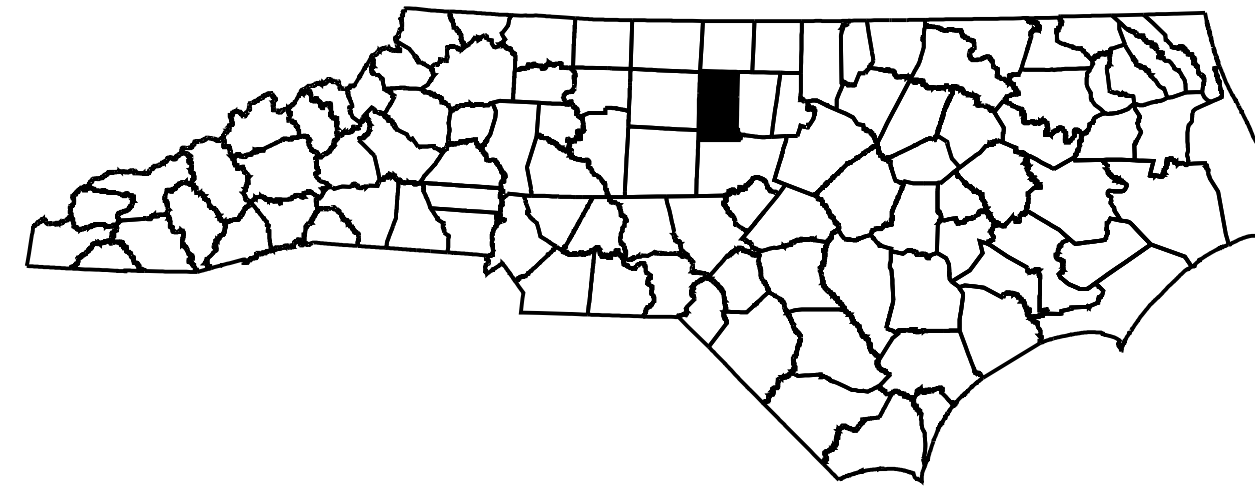
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

ALAMANCE COUNTY

LOCATION: NC 119 RELOCATION FROM I-40 /85 TO NORTH OF SR 1921
(MEBANE ROGERS ROAD /STAGE COACH ROAD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, STRUCTURES, CULVERTS, AND SIGNALS



INDEX OF SHEETS

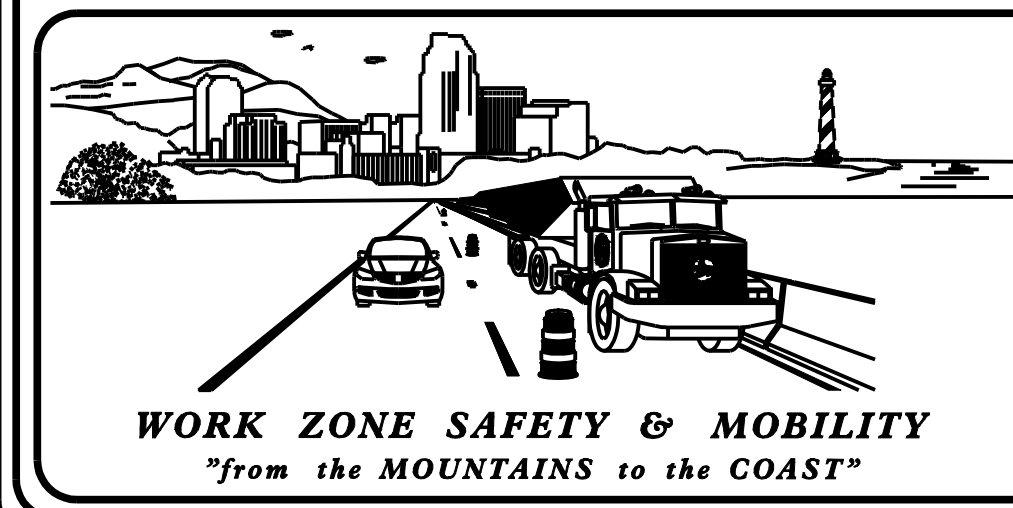
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
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TMP-1B THRU TMP-1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)
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TMP-34 THRU TMP-37	TEMPORARY TRAFFIC CONTROL PHASE IIB OVERVIEWS
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TMP-51 THRU TMP-56	TEMPORARY TRAFFIC CONTROL PHASE III DETAILS
TMPXSC-III-1	PHASE III CROSS SECTIONS

SHEET NO.
TMP-1

U-3109A

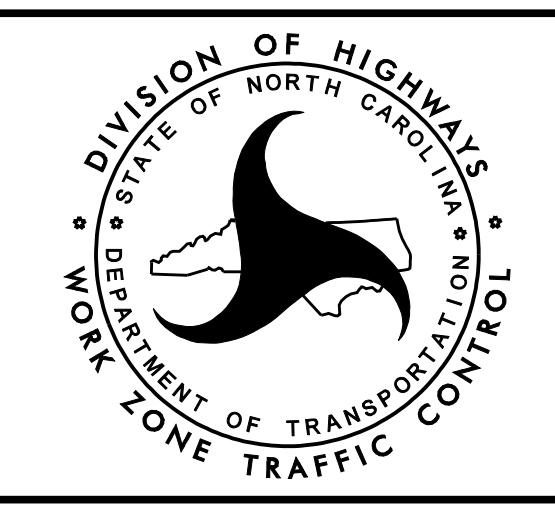
TIP PROJECT:

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



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TRAFFIC CONTROL DESIGN ENGINEER



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

APPROVED: *Tim Arey*
DATE: 3/9/2017

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
TIM AREY
SEAL 025465

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 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
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
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
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT
- ON-GOING CONSTRUCTION FROM PREVIOUS PHASE
- WEDGING

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

PAVEMENT MARKINGS PAINT (4")

- PA WHITE EDGELINE
- PB YELLOW EDGELINE
- PC 10 FT. WHITE SKIP
- PD 3 FT. - 9 FT./SP WHITE MINISKIP
- PE WHITE SOLID LANE LINE
- PF 10 FT. YELLOW SKIP
- PH YELLOW SINGLE CENTER
- PI YELLOW DOUBLE CENTER

PAINT (8")

- PO WHITE DIAGONAL
- PP YELLOW DIAGONAL
- PS WHITE GORELINE

PAINT (12")

- PS WHITE GORELINE

COLD APPLIED PLASTIC (TYPE IV) (4")

- CA WHITE EDGELINE
- CD 3 FT. - 9 FT./SP WHITE MINISKIP
- CE WHITE SOLID LANE LINE
- CI YELLOW DOUBLE CENTER

PAINT (24")

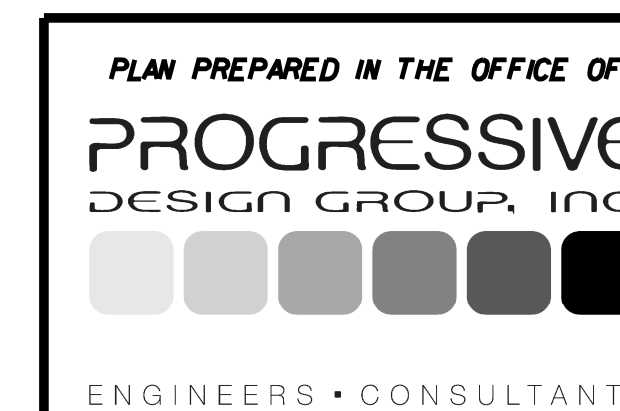
- P2 WHITE STOPBAR

PAVEMENT MARKINGS PAINT (6")

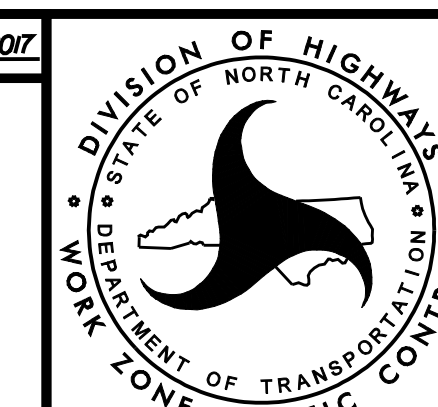
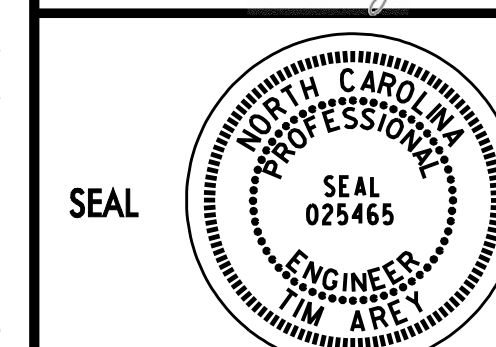
- P6 WHITE EDGELINE (6")
- P7 YELLOW EDGELINE (6")
- PJ 10 FT. WHITE SKIP (6")

MARKING SYMBOLS

- QA LEFT TURN ARROW
- QB RIGHT TURN ARROW
- QC STRAIGHT ARROW
- QE COMBO. STRAIGHT/RIGHT
- QI ALPHANUMERIC CHARACTER
- QN 24" YIELD LINE TRIANGLE
- QP MERGE ARROW



APPROVED: *[Signature]* DATE: 3/9/2017



ROADWAY STANDARD
DRAWINGS & LEGEND

MANAGEMENT STRATEGIES

THE PROJECT WILL BE CONSTRUCTED USING A COMBINATION OF STAGED CONSTRUCTION AND LANE CLOSURES IN ACTIVE ROADWAY LOCATIONS. THE NEW LOCATION SECTIONS OF THE PROJECT WILL BE CONSTRUCTED AWAY FROM TRAFFIC. TEMPORARY SHORING WILL BE UTILIZE TO MANAGE TRAFFIC OPERATIONS DURING CONSTRUCTION OF ONE OF THE -Y- LINES AND AT ONE OF THE NEW CULVERT LOCATIONS. LANE SHIFTING ALONG I-85 WILL BE UTILIZED FOR CENTER PIER CONSTRUCTION AND ACCESS TO DRIVEWAYS ALONG ALL ROADWAYS ARE TO BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE SHOWN IN THESE PLANS OR DIRECTED BY THE ENGINEER.

GENERAL 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 UNDESIRED 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:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
I-85 (1 OF 4 LANES)	6:00AM-8:00PM MONDAY THRU SUNDAY
I-85 (2 OF 4 LANES)	6:00AM-10:00PM MONDAY THRU SUNDAY
I-85 (3 OF 4 LANES)	6:00AM-1:00AM MONDAY THRU SUNDAY
ALL I-85 RAMPS	6:00AM-8:00PM MONDAY THRU SUNDAY
-L-, -Y2-, -Y3-, -Y6-, -Y6A-	6:00AM-9:00AM, 4:00PM-6:00PM MONDAY THRU FRIDAY
-Y5B-, -Y5C-, -Y7-, -Y7A-, -Y7B-, -Y8-, -Y9-, -Y10-, -Y16-, -Y19-, -Y20-	6:00AM-9:00AM MONDAY THRU FRIDAY

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

ROAD NAME
I-85 AND ALL RAMPS

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 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.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
5. 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.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
8. 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.
9. FOR FOOTBALL AND BASKETBALL GAMES AT UNC IN CHAPEL HILL BETWEEN 5 HOURS BEFORE THE START AND 5 HOURS AFTER THE END OF THE FOOTBALL AND BASKETBALL GAMES AT UNC IN CHAPEL HILL.

C) DO NOT CLOSE ROADS AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
I-85	6:00AM-1:00AM MONDAY THRU SUNDAY
-Y16-	6:00AM-12:00 MIDNIGHT MONDAY THRU SUNDAY
-Y26-	6:00AM-12:00 MIDNIGHT MONDAY THRU SUNDAY

D) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS; INGRESS AND EGRESS FROM RAMPS WILL BE ALLOWED:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
I-85 AND ALL RAMPS	6:00AM-9:00AM, 4:00PM-6:00PM MONDAY THRU FRIDAY

E) 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

F) 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.

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

PAVEMENT EDGE DROP OFF REQUIREMENTS

L) 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.

M) 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) 300 ft IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

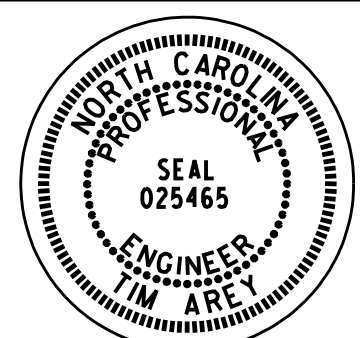
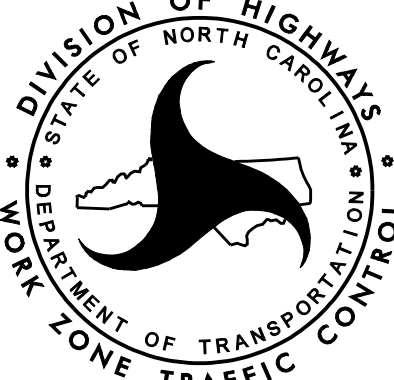
N) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

O) 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.

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

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>John Gray</i> DATE: 4/1/2017</p> <p>SEAL</p> 		<p>TRANSPORTATION OPERATIONS PLAN MANAGEMENT STRATEGIES GENERAL NOTES</p>
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GENERAL NOTES

Q) 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.

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

S) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 300 ft IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

T) 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.

U) 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

V) 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.

W) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

X) 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

Y) 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	PAINT	TEMPORARY RAISED
BRIDGE DECKS	COLD APPLIED PLASTIC (TYPE IV)	TEMPORARY RAISED
I-85	SEE PATTERN MASKING AND WZ PERFORMANCE PAVEMENT MARKINGS SPECIAL PROVISIONS	TEMPORARY RAISED

Z) 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.

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

BB) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

CC) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION

MISCELLANEOUS

DD) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER. THE DEPARTMENT WILL PROVIDE POLICE CONTROL AT INTERSECTIONS WHEN REQUIRED.

EE) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

<p style="font-size: small;">PLAN PREPARED IN THE OFFICE OF:</p> <p style="font-size: large; font-weight: bold;">PROGRESSIVE</p> <p style="font-size: small;">DESIGN GROUP, INC.</p> <p style="font-size: x-small;">ENGINEERS • CONSULTANTS</p>	<p style="font-size: x-small;">APPROVED: <i>John Gray</i> DATE: 4/1/2017</p> <p style="font-size: x-small;">SEAL</p>		<p style="font-size: large; font-weight: bold;">TRANSPORTATION MANAGEMENT PLAN GENERAL NOTES</p>
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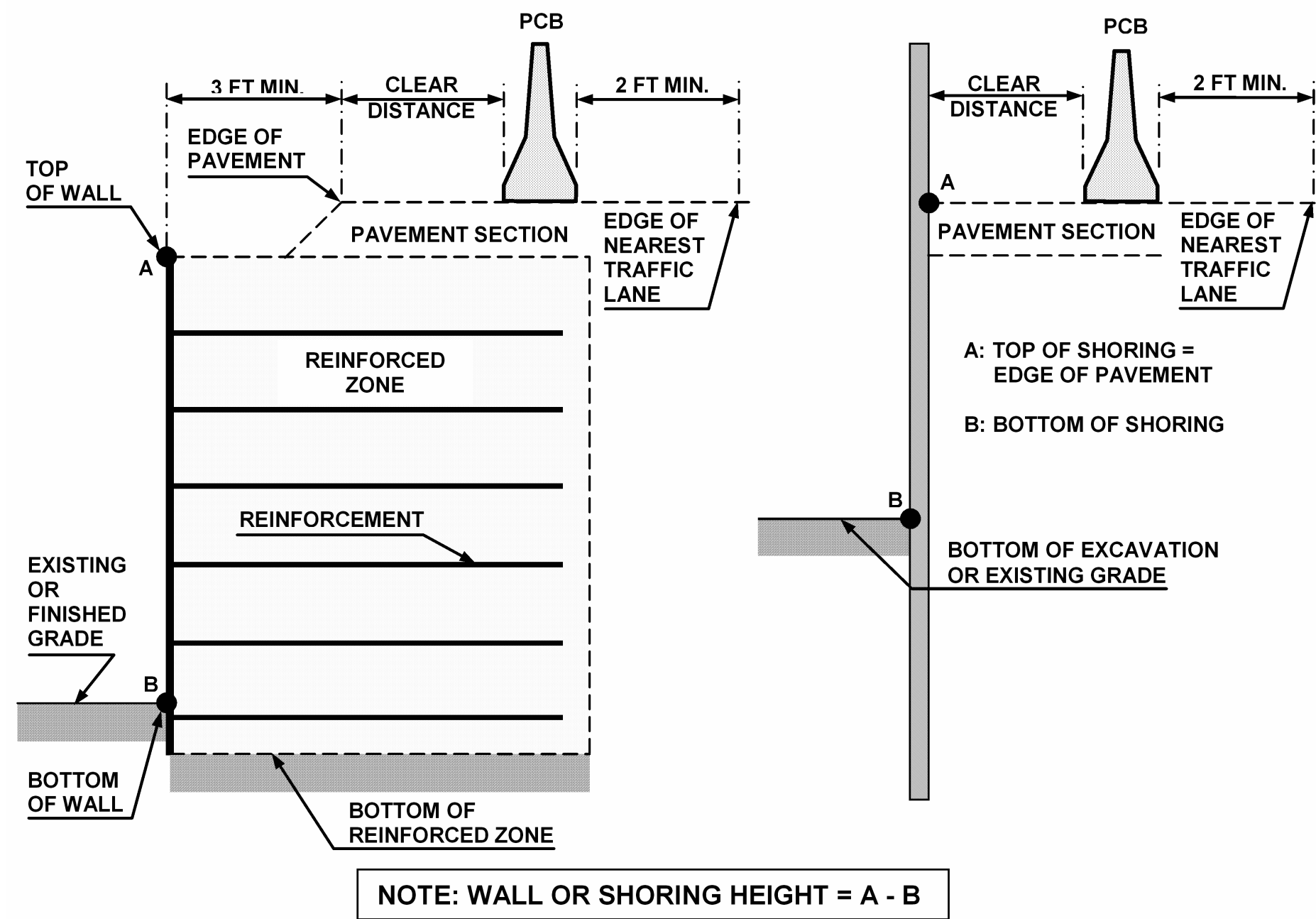


FIGURE A

NOTES

- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.
- REFER TO THE "TEMPORARY SHORING" PROJECT SPECIAL PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).
- PCB IS REQUIRED IF TEMPORARY SHORING IS LOCATED WITHIN THE CLEAR ZONE IN ACCORDANCE WITH THE AASHTO ROADSIDE DESIGN GUIDE. DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE. (CONTACT NCDOT PAVEMENT MANAGEMENT UNIT FOR APPLICABLE PAVEMENT DESIGN).
- BASED ON THE CLEAR DISTANCE, OFFSET, DESIGN SPEED AND PAVEMENT TYPE, CHOOSE AN UNANCHORED OR ANCHORED PCB FROM THE TABLE SHOWN IN FIGURE B. CLEAR DISTANCE IS DEFINED AS SHOWN IN FIGURE A AND OFFSET IS DEFINED AS SHOWN IN FIGURE B.
- AT THE CONTRACTOR'S OPTION OR IF THE MINIMUM REQUIRED CLEAR DISTANCE IS NOT AVAILABLE, SET PCB NEXT TO AND UP AGAINST THE TRAFFIC SIDE OF THE TEMPORARY SHORING EXCEPT FOR BARRIER ABOVE TEMPORARY WALLS. PCB WITH THE MINIMUM REQUIRED CLEAR DISTANCE IS REQUIRED ABOVE TEMPORARY WALLS.
- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.
- PCB REQUIREMENTS FOR TEMPORARY WALLS APPLY TO TEMPORARY MECHANICALLY STABILIZED EARTH (MSE) WALLS AND TEMPORARY SOIL NAIL WALLS.
- SET PCB WITH A MINIMUM HORIZONTAL DISTANCE OF 2 FT BETWEEN THE FRONT FACE OF THE BARRIER AND THE EDGE OF THE NEAREST TRAFFIC LANE AS SHOWN IN FIGURE A UNLESS OTHERWISE SHOWN IN THE PLANS AND OR AS APPROVED BY THE ENGINEER.
- FOR PCB ABOVE AND BEHIND TEMPORARY WALLS, PROVIDE A MINIMUM DISTANCE OF 3 FT BETWEEN THE EDGE OF PAVEMENT AND THE WALL FACE AS SHOWN IN FIGURE A. IF THESE MINIMUM REQUIRED DISTANCES ARE NOT AVAILABLE, CONTACT THE ENGINEER.
- TABLE SHOWN IN FIGURE B IS BASED ON NCDOT RESEARCH PROJECT NO. 2005-010 WITH VEHICLE TYPE USED FOR NCHRP 350 CRASH TESTS. BARRIER DEFLECTIONS AND RESULTING MINIMUM REQUIRED CLEAR DISTANCES MIGHT VARY SIGNIFICANTLY FOR LARGER HEAVIER VEHICLES, RUNS OF BARRIER LESS THAN 200 FT IN LENGTH AND WET OR DRY PAVEMENT.

MINIMUM REQUIRED CLEAR DISTANCE, inches

Barrier Type	Pavement Type	Offset * ft	Design Speed, mph					
			<30	31-40	41-50	51-60	61-70	71-80
Unanchored PCB	Asphalt	<8	24	26	29	32	36	40
		8-14	26	28	31	35	38	42
		14-20	27	29	34	36	39	43
		20-26	28	31	35	38	40	44
		26-32	29	32	36	39	42	45
		32-38	30	34	38	41	43	46
		38-44	31	34	41	43	45	48
		44-50	31	35	41	43	46	49
		50-56	32	36	42	44	47	50
	>56	32	36	42	45	47	51	
	Concrete	<8	17	18	21	22	25	26
		8-14	19	20	23	25	26	29
		14-20	22	22	24	26	28	31
		20-26	23	24	26	27	30	34
		26-32	24	25	27	28	32	35
		32-38	24	26	27	30	33	36
		38-44	25	26	28	30	34	37
		44-50	26	26	28	32	35	37
50-56		26	26	28	32	35	38	
>56	26	27	29	32	36	38		
Anchored PCB	Asphalt	All Offsets	24 for All Design Speeds					
Anchored PCB	Concrete (including bridge approach slabs)	All Offsets	12 for All Design Speeds					

* See Figure Below

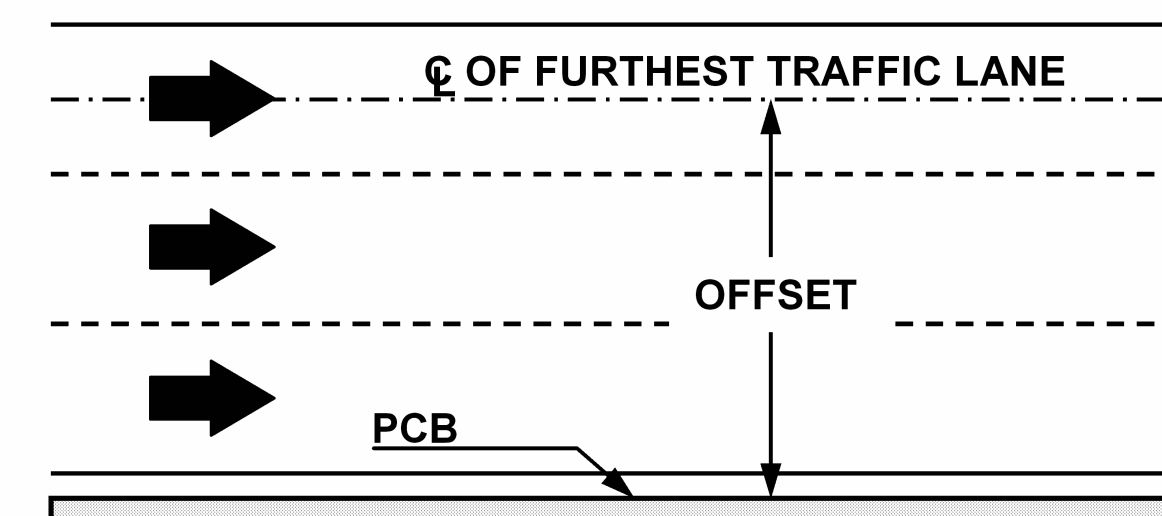


FIGURE B

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: <i>Jan Gray</i> DATE: 3/9/2017 SEAL 		TRANSPORTATION MANAGEMENT PLAN PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
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Temporary Shoring No. 1

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

DESIGN TEMPORARY SHORING FROM STATION 29+50 +/- -Y16-, 3 FT. LT. TO STATION 35+00 +/- -Y16-, 0.5 FT. RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:


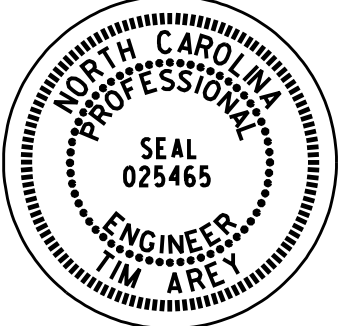

UNIT WEIGHT OF SOIL ABOVE WATER TABLE, (γ) = 120 PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, (γ') = 60 PCF
 FRICTION ANGLE, (ϕ) = 30
 COHESION, (c) = 0 PSF
 GROUNDWATER ELEVATION = 620 FT. +/-

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

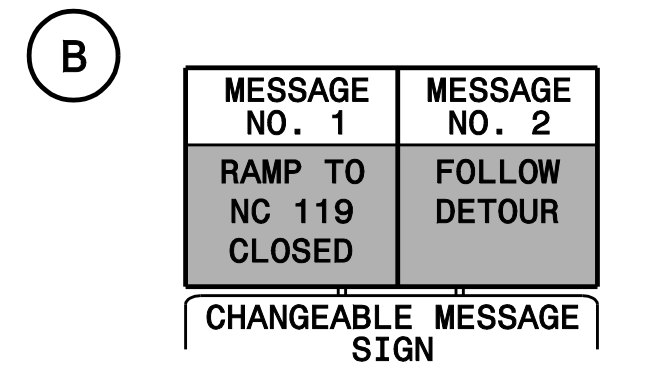
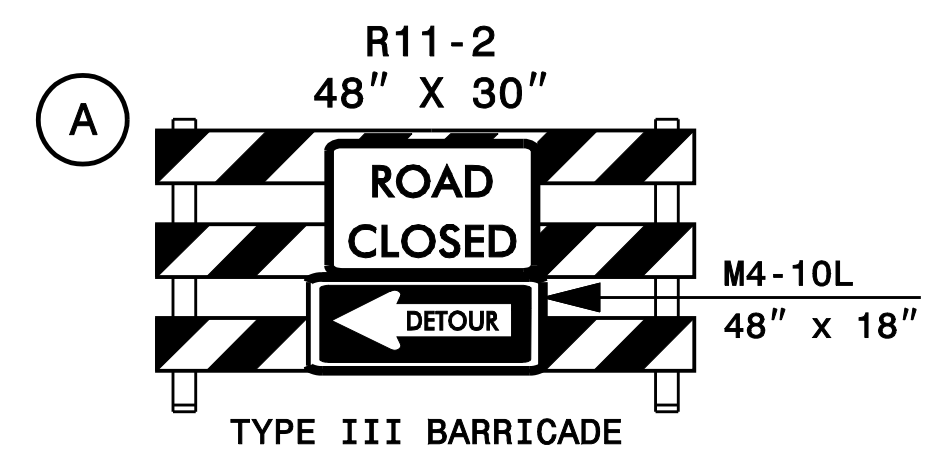
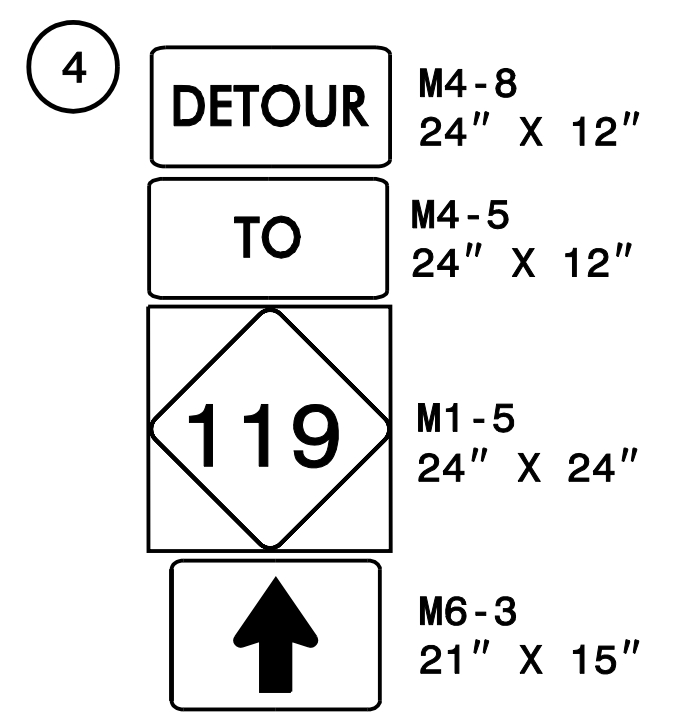
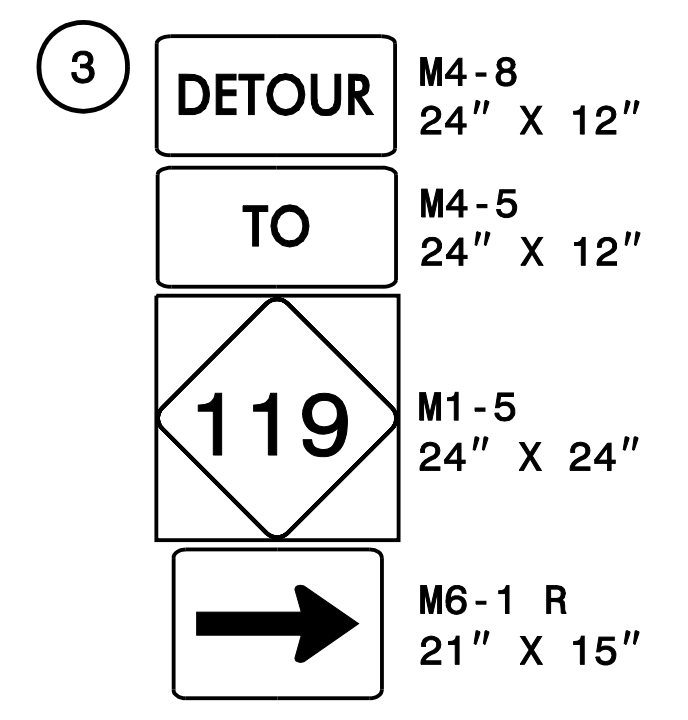
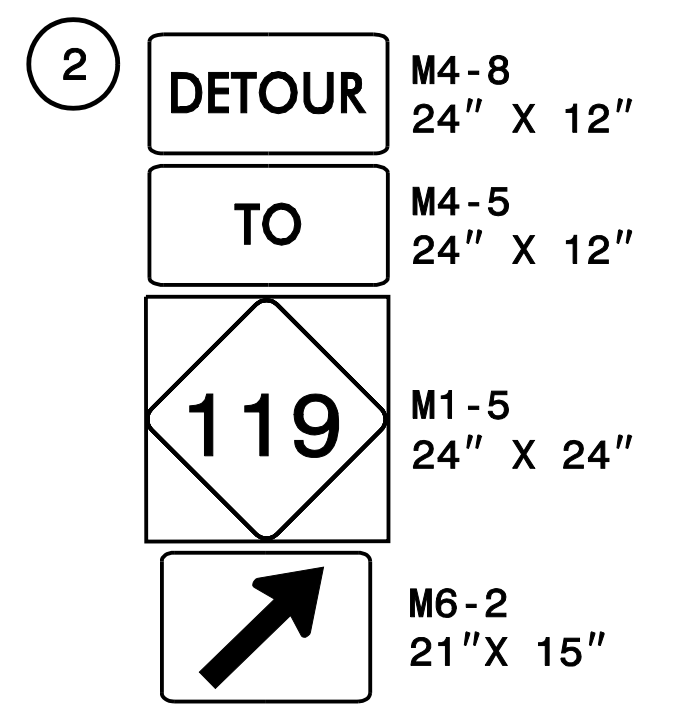
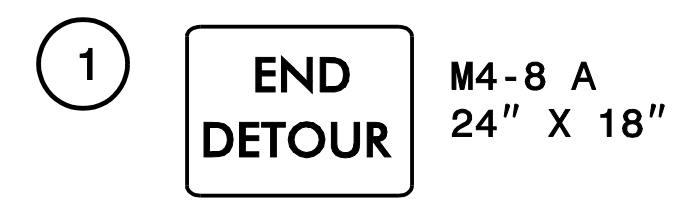
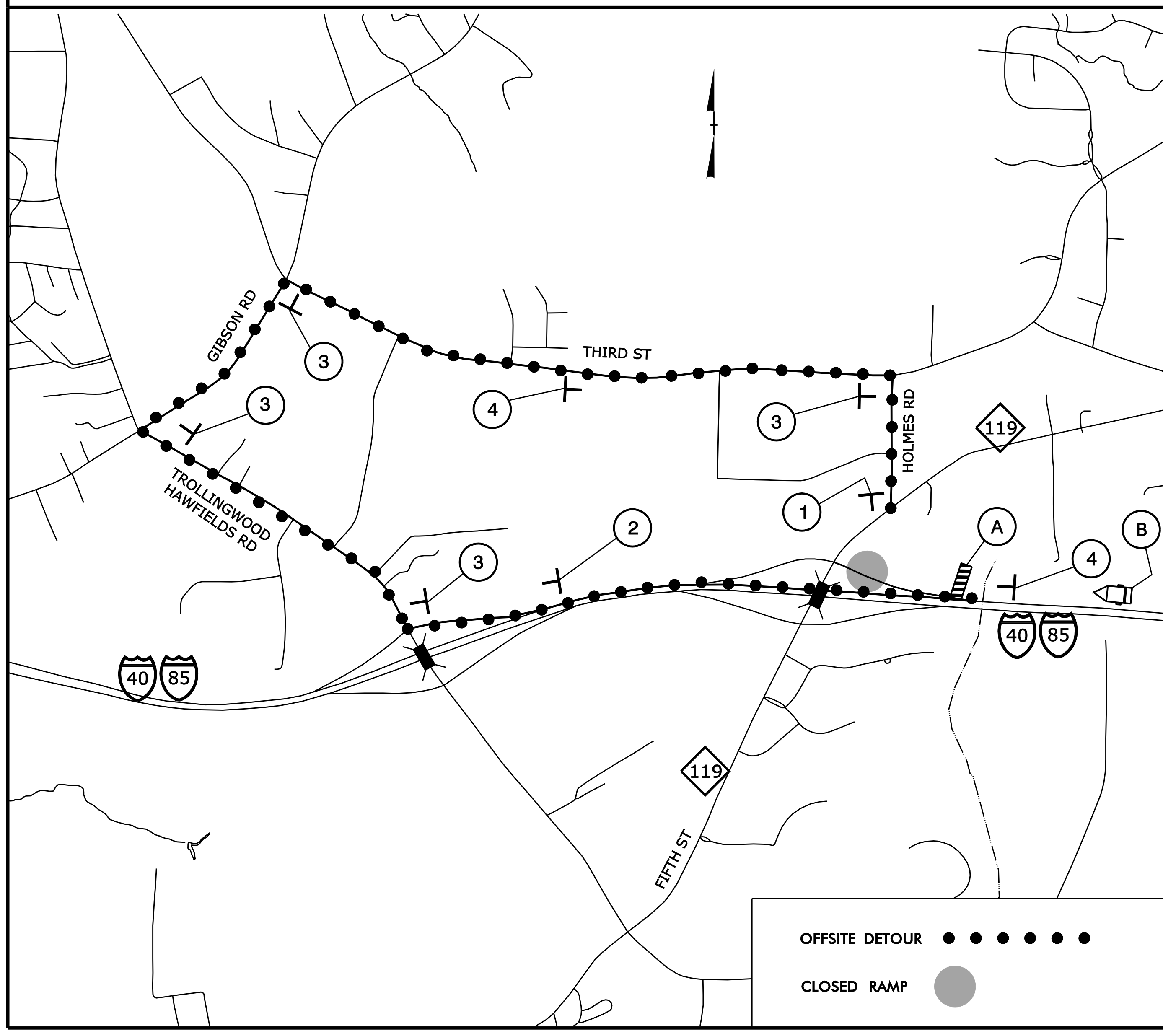
LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 29+50 +/- -Y16-, 3 FT. LT. TO STATION 35+00 +/- -Y16-, 0.5 FT. RT. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 29+50 +/- -Y16-, 3 FT. LT. TO STATION 35+00 +/- -Y16-, 0.5 FT. RT. SEE STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY SHORING.

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION ON NOVEMBER 10, 2016, AND SEALED BY A PROFESSIONAL ENGINEER, DAVID L. TEAGUE, PE, NC #027869.

<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p>  <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Amey</i> DATE: 3/9/2017</p> <p>SEAL</p> 		<p>TRANSPORTATION MANAGEMENT PLAN TEMPORARY SHORING DATA</p>
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-RPA- CLOSURE / DETOUR TO NC 119 (FIFTH ST)



DETOUR ROUTE FOR WORK ITEMS REQUIRING CLOSURE OF -RPA-

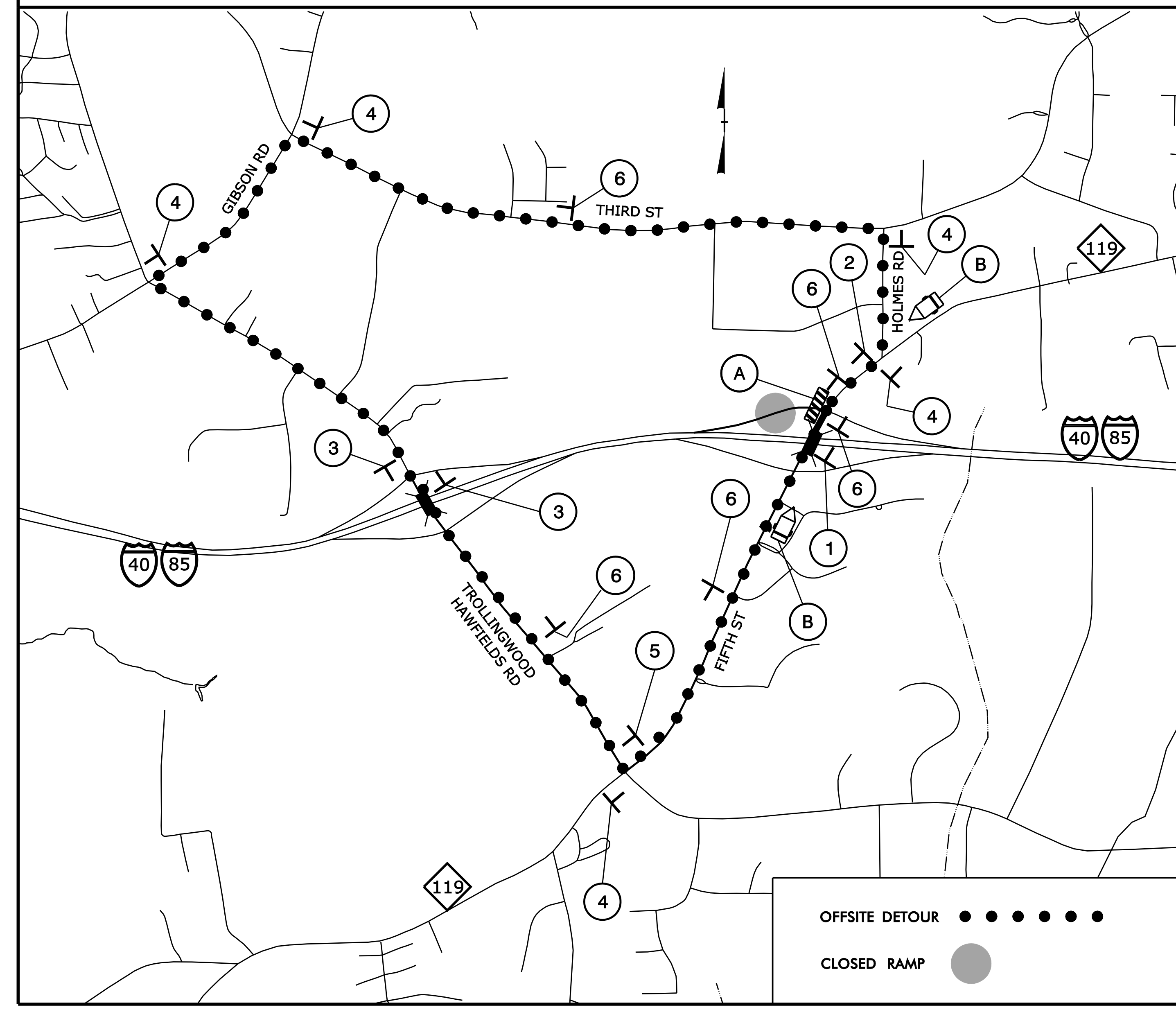
PLAN PREPARED IN THE OFFICE OF:
PROGRESSIVE DESIGN GROUP, INC.
ENGINEERS • CONSULTANTS

APPROVED: *John Gray* DATE: 3/9/2017
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 025465
I.M. ARE

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

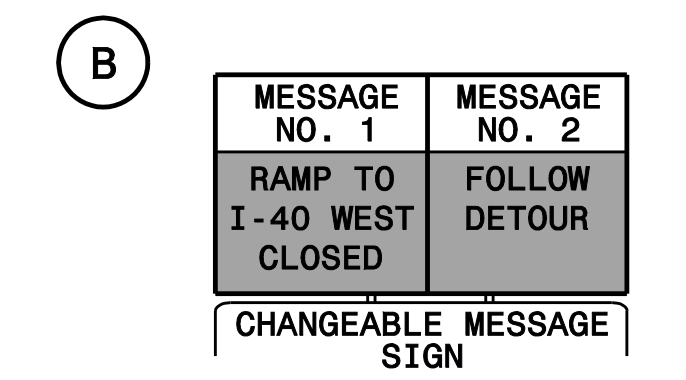
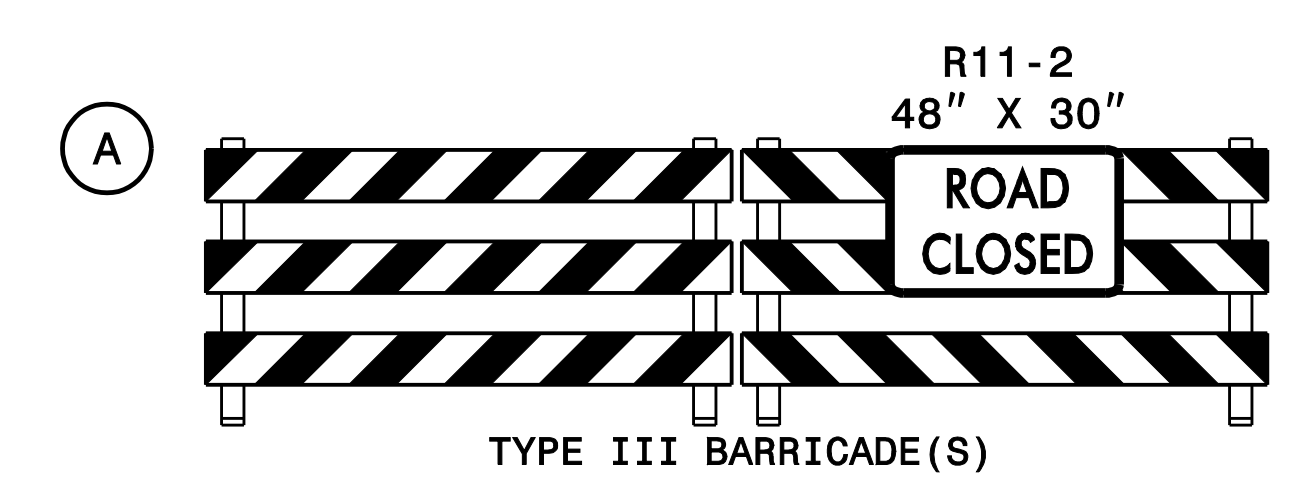
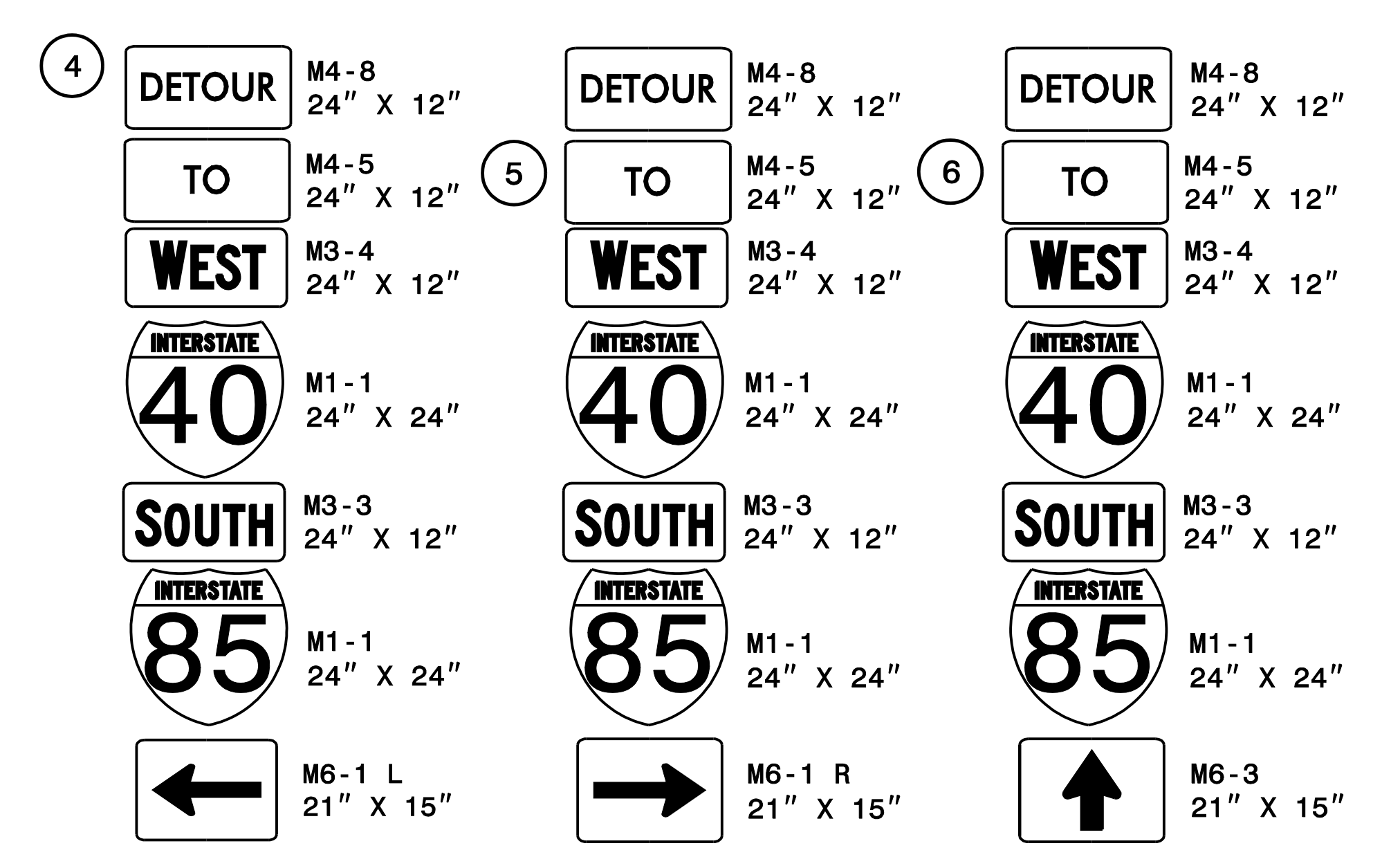
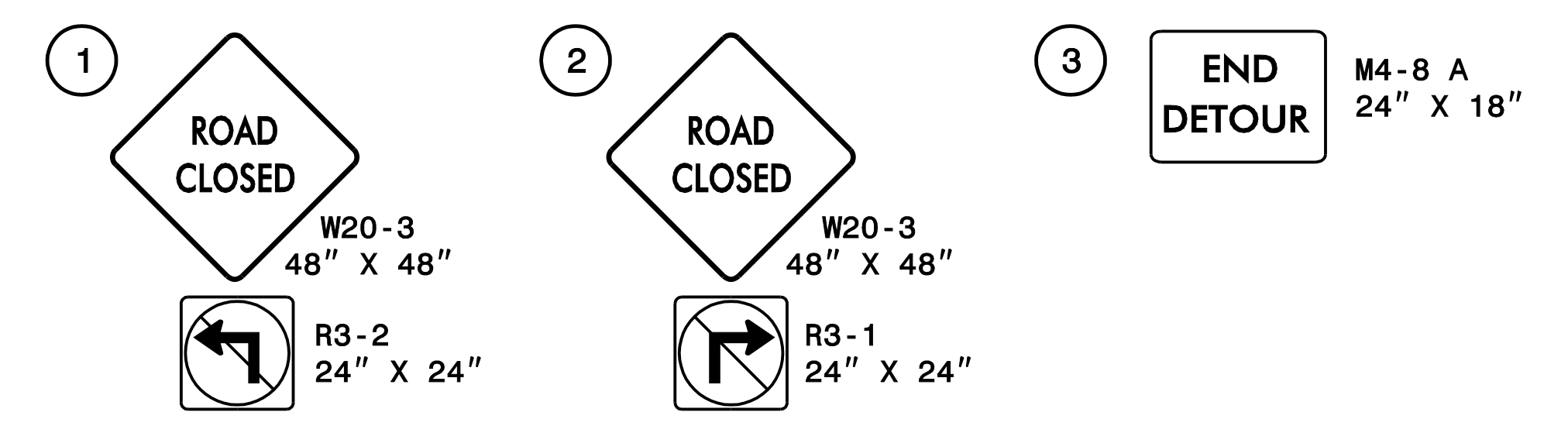
**TRANSPORTATION MANAGEMENT PLAN
OFF SITE DETOUR ROUTES**

-RPB- CLOSURE / DETOUR TO I-40 WEST/I-85 SOUTH



OFFSITE DETOUR ●●●●●●●●●●

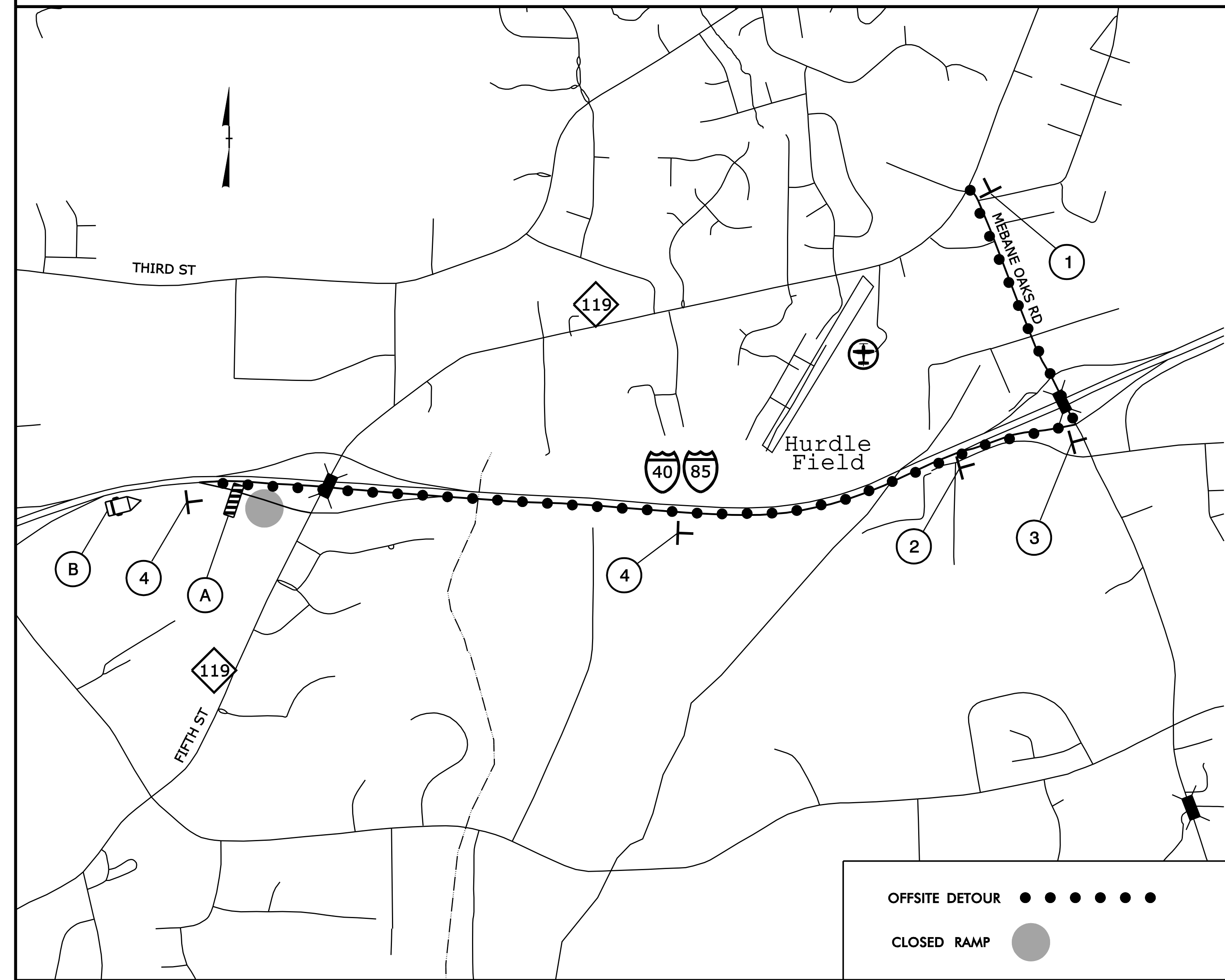
CLOSED RAMP ●



DETOUR ROUTE FOR WORK ITEMS REQUIRING CLOSURE OF -RPB-

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: <i>John Gray</i> DATE: 3/9/2017	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	TRANSPORTATION MANAGEMENT PLAN OFF SITE DETOUR ROUTES
	SEAL 		

-RPC- CLOSURE / DETOUR TO NC 119 (FIFTH ST)

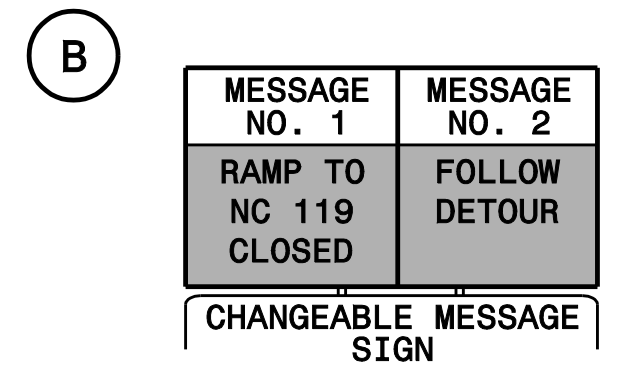
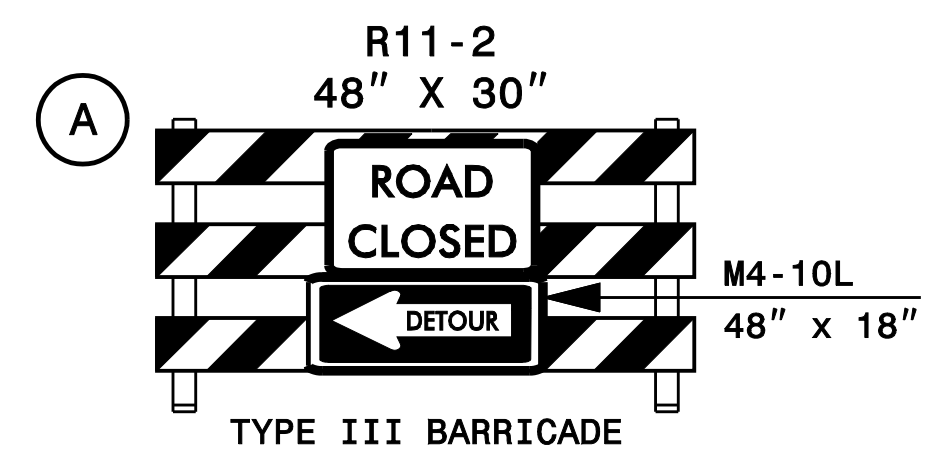


1 **END DETOUR** M4-8 A
24" X 18"

2 **DETOUR** M4-8
24" X 12"
TO M4-5
24" X 12"
119 M1-5
24" X 24"
↗ M6-2
21" X 15"

3 **DETOUR** M4-8
24" X 12"
TO M4-5
24" X 12"
119 M1-5
24" X 24"
← M6-1 L
21" X 15"

4 **DETOUR** M4-8
24" X 12"
TO M4-5
24" X 12"
119 M1-5
24" X 24"
↑ M6-3
21" X 15"



DETOUR ROUTE FOR WORK ITEMS REQUIRING CLOSURE OF -RPC-

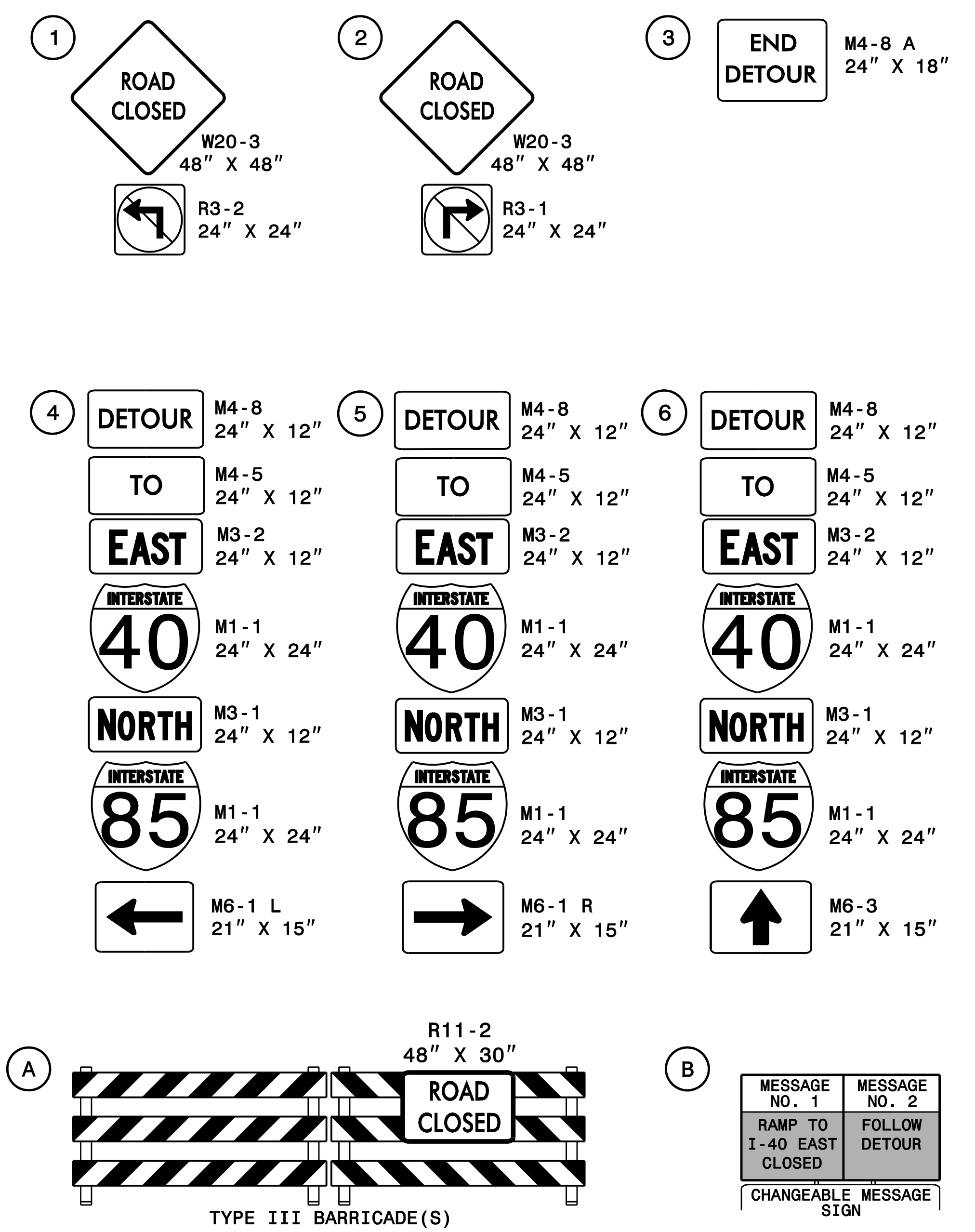
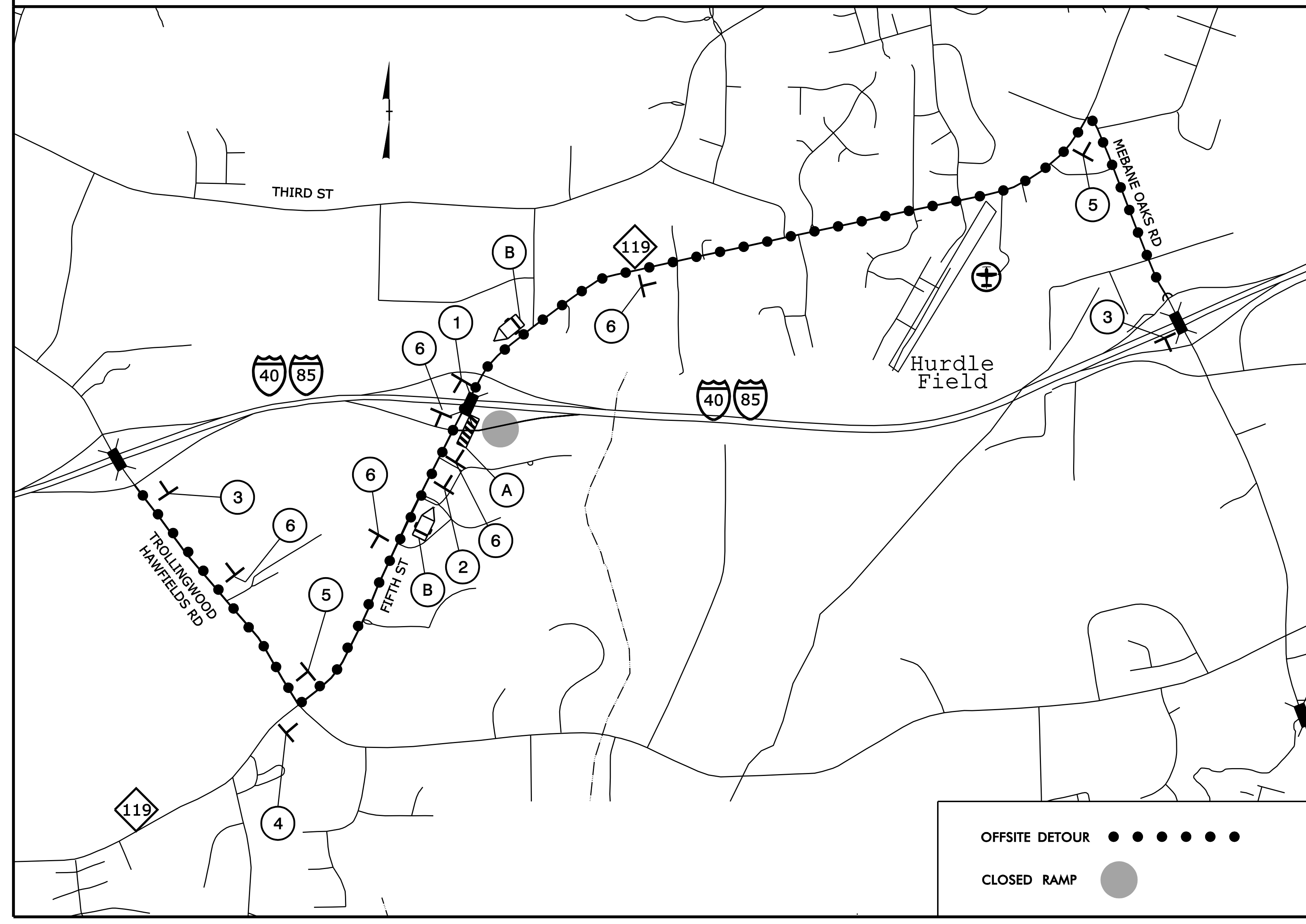
PLAN PREPARED IN THE OFFICE OF:
PROGRESSIVE DESIGN GROUP, INC.
ENGINEERS • CONSULTANTS

APPROVED: *Tommy* DATE: 3/9/2017
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465



**TRANSPORTATION MANAGEMENT PLAN
OFF SITE DETOUR ROUTES**

-RPD- CLOSURE / DETOUR TO I-40 EAST/I-85 NORTH



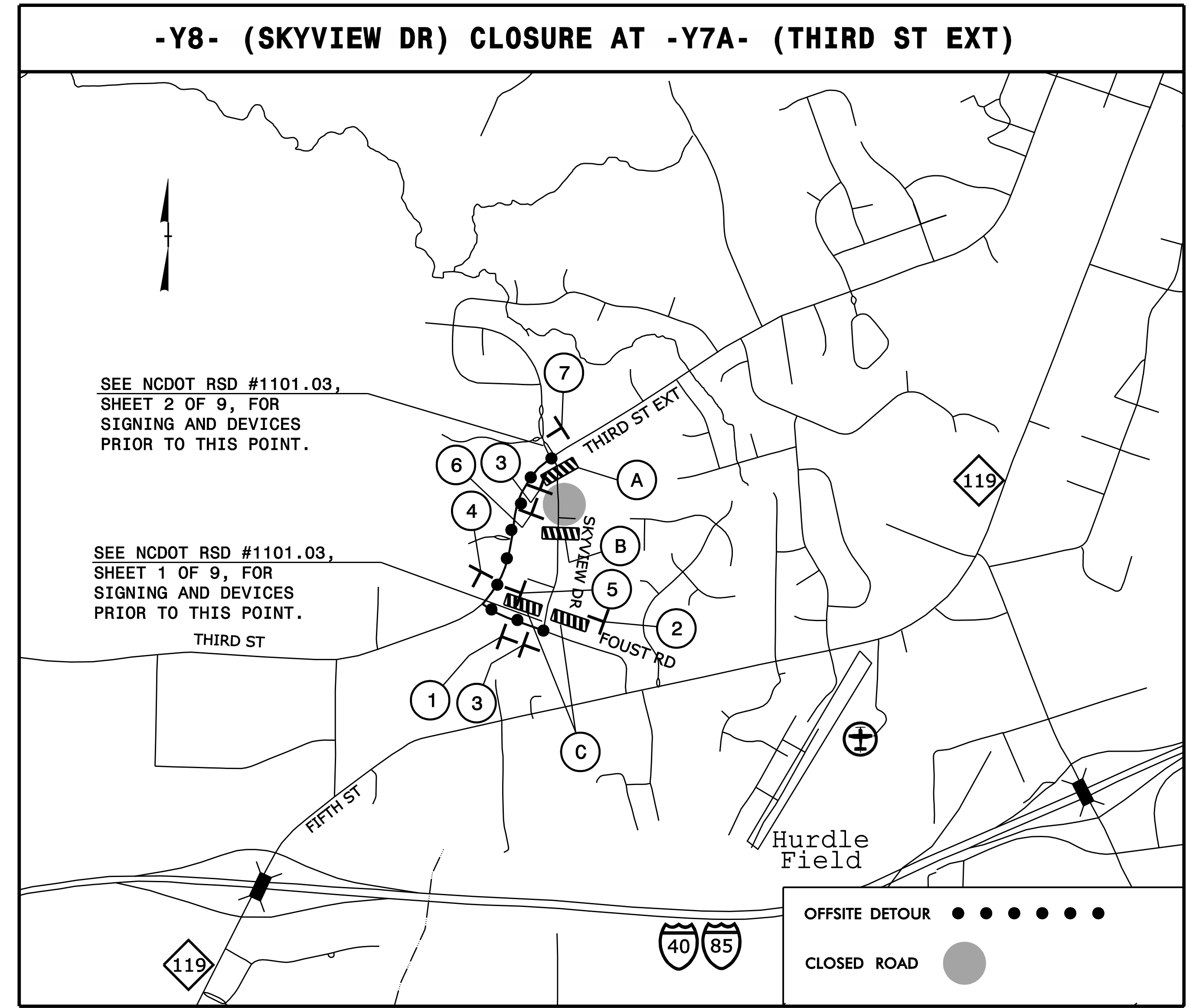
DETOUR ROUTE FOR WORK ITEMS
REQUIRING CLOSURE OF -RPD-

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

APPROVED: *John Gray* DATE: 3/9/2017
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 025465
I.M. ARE

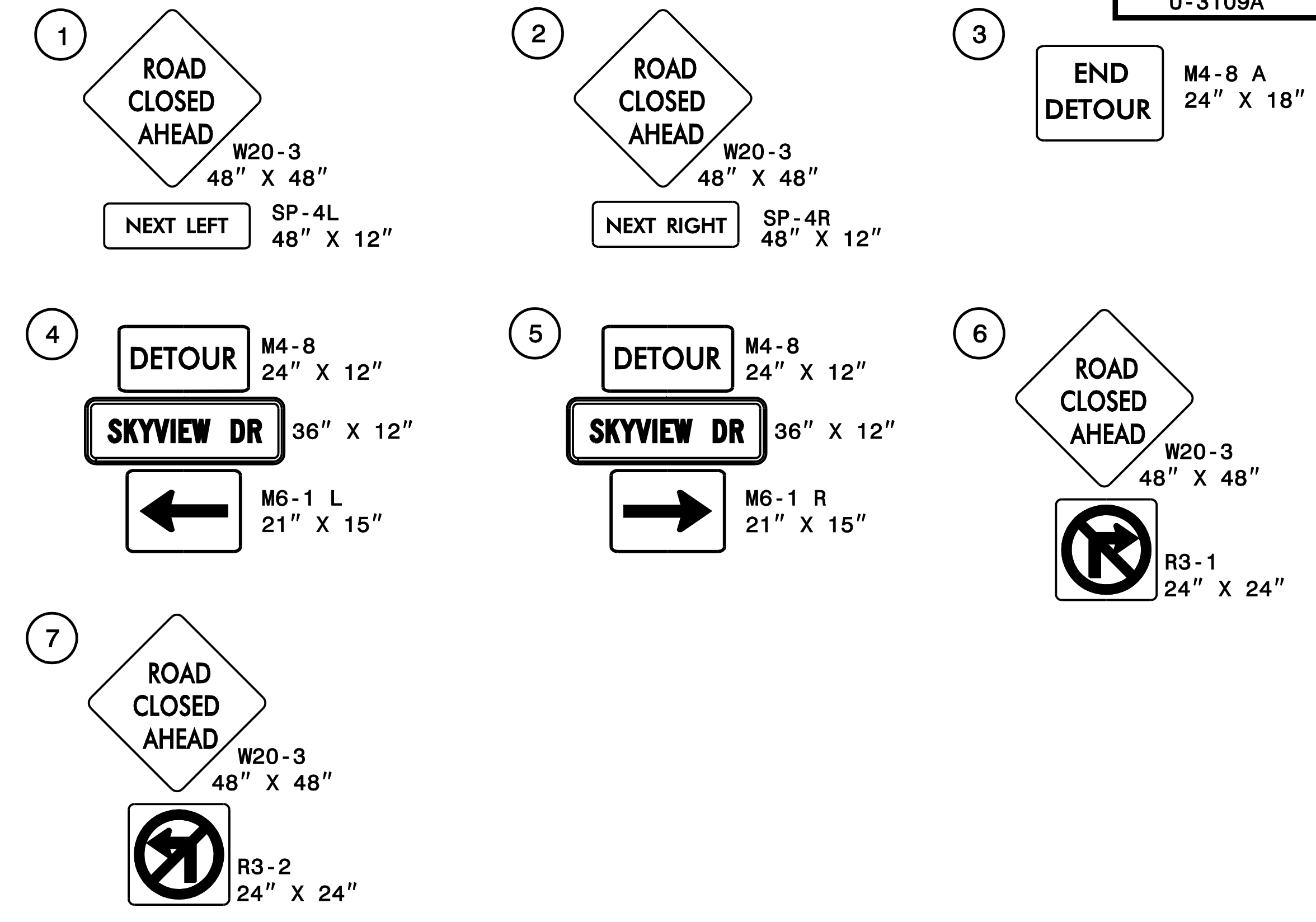
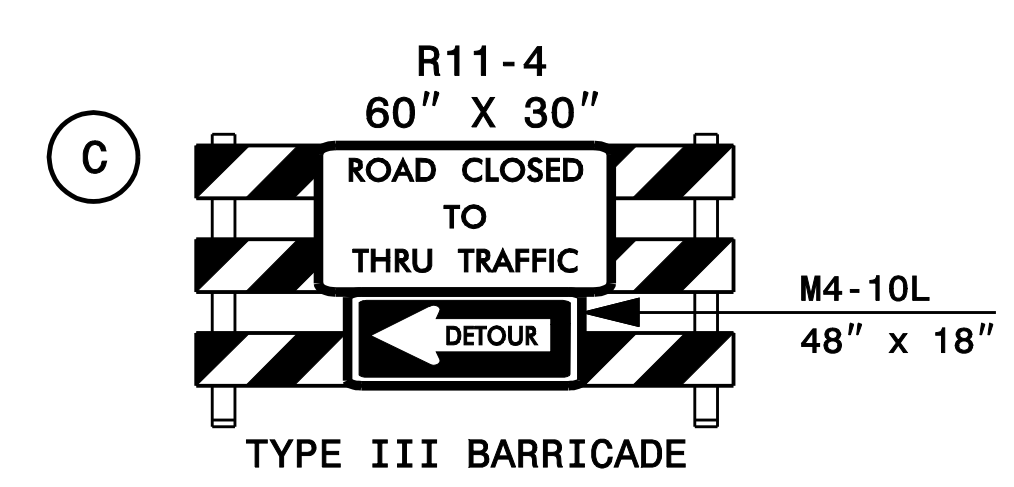
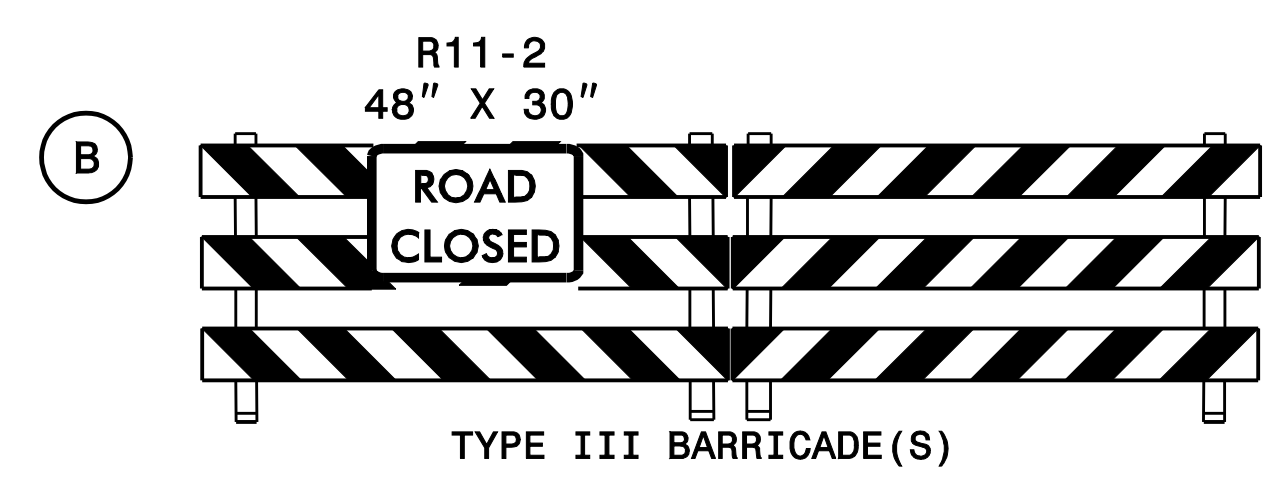
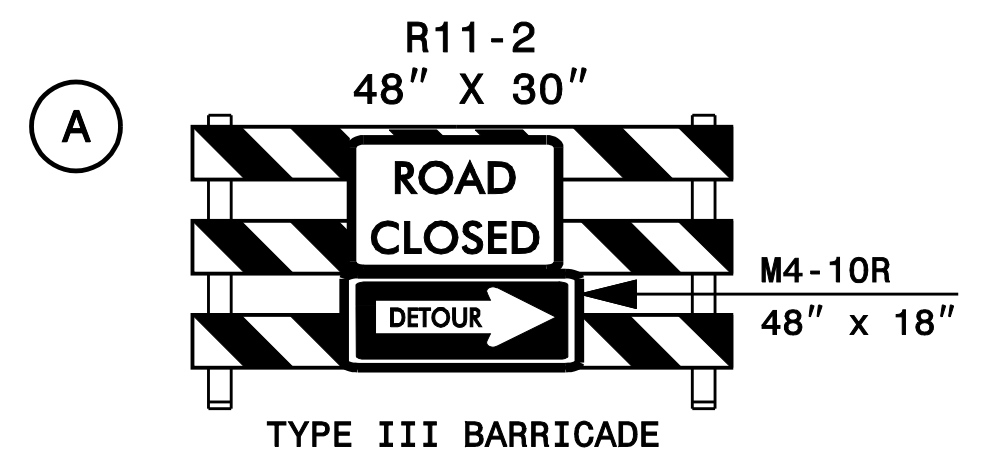
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

**TRANSPORTATION
MANAGEMENT PLAN
OFF SITE DETOUR ROUTES**



SEE NCDOT RSD #1101.03, SHEET 2 OF 9, FOR SIGNING AND DEVICES PRIOR TO THIS POINT.

SEE NCDOT RSD #1101.03, SHEET 1 OF 9, FOR SIGNING AND DEVICES PRIOR TO THIS POINT.



SIGN NUMBER: D		BACKG COLOR: Fluorescent Orange	DESIGN BY: LA	CHECKED BY: SK	DATE: Feb 02, 2016
TYPE: D		COPY COLOR: Black	PROJECT ID: U-3109A	DIV: DIV 7	
QUANTITY: SEE PLANS	SYMBOL				
SIGN WIDTH: 3'-0"	X	Y	WID	HT	
HEIGHT: 1'-0"					
TOTAL AREA: 3.0 Sq.Ft.					
BORDER TYPE: INSET	MAT'L: 0.080" (2.0 mm) ALUMINUM				
RECESS: 0.47"					
WIDTH: 0.47"					
RADII: 1.97"					
NO. Z BARS: NA					
LENGTH: NA					

USE NOTES: 1,2

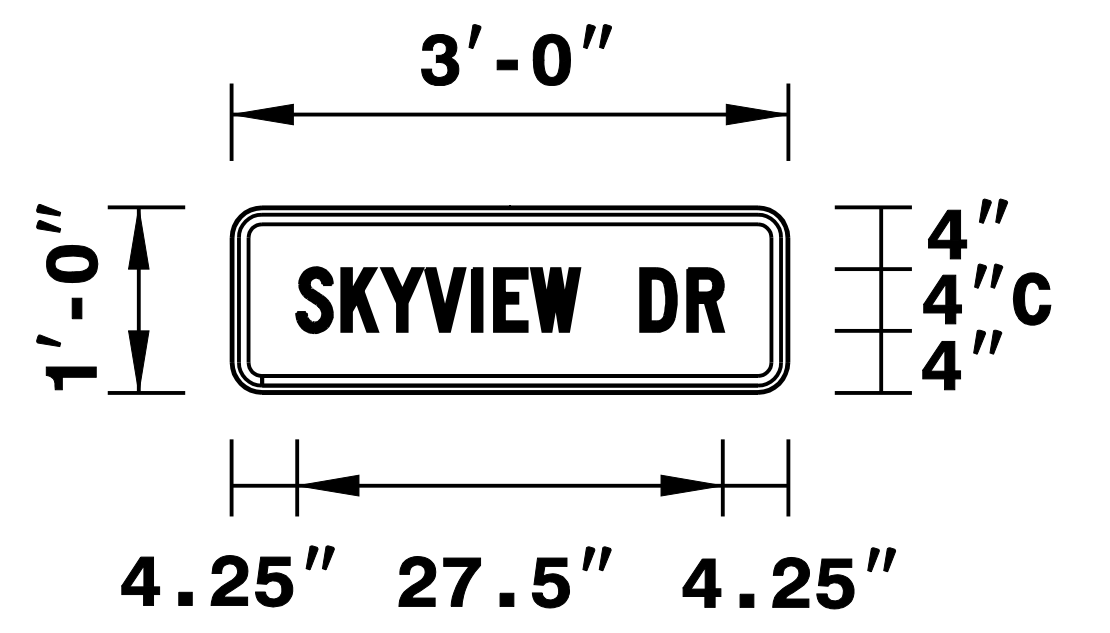
- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

BORDER
R=1.97"
TH=0.47"
IN=0.47"

Spacing Factor is 1 unless specified otherwise

Letter locations are panel edge to lower left corner											Series/Size
S	K	Y	V	I	E	W	D	R			Text Length
4.2	7.2	9.8	12.6	15.6	17	19.4	22.5	26.5	29.5		C 2000
											27.5

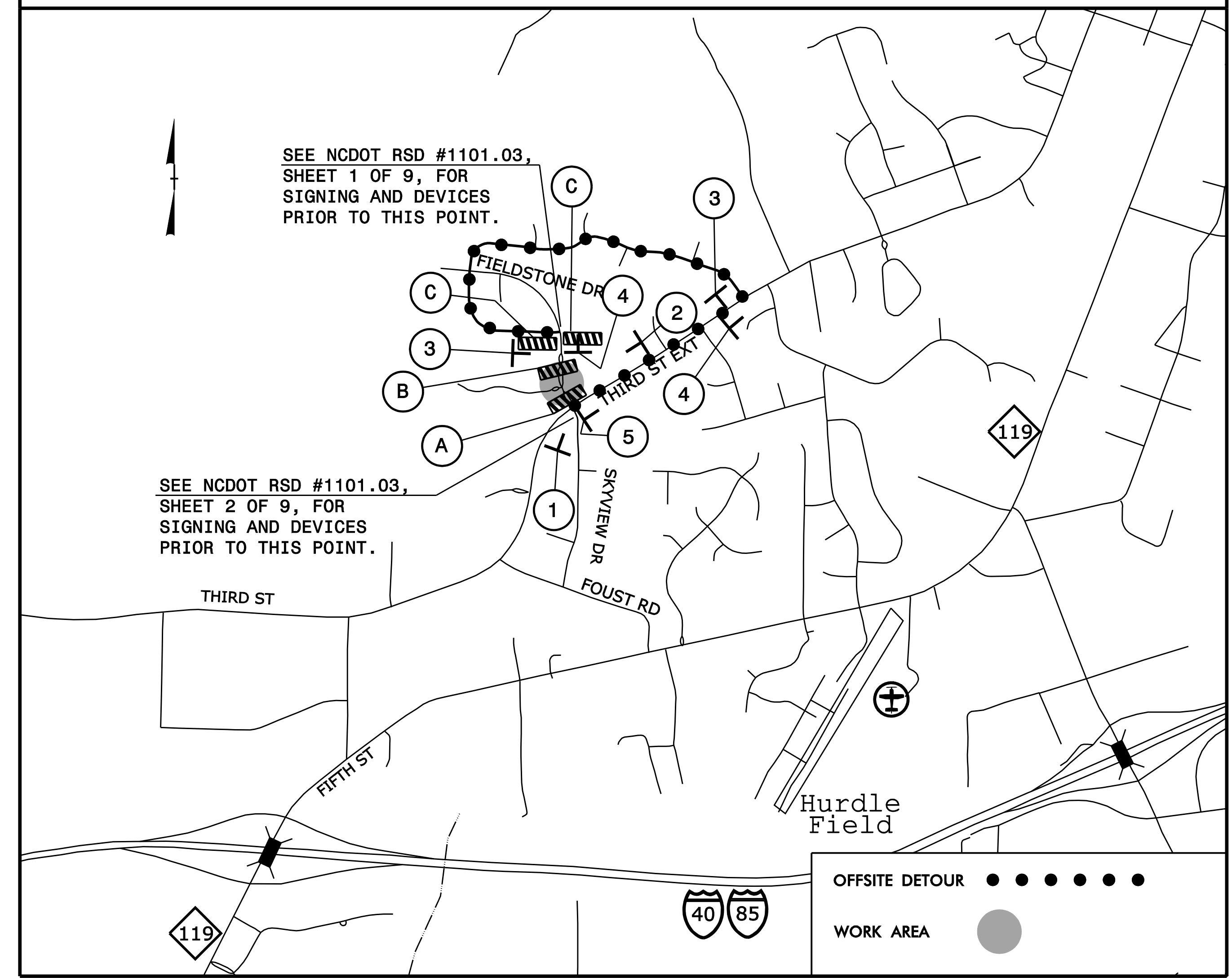
FILENAME: SIGN DESIGN NORTH CAROLINA D.O.T. SIGN DETAIL



DETOUR ROUTE FOR WORK ITEMS REQUIRING CLOSURE OF -Y8-

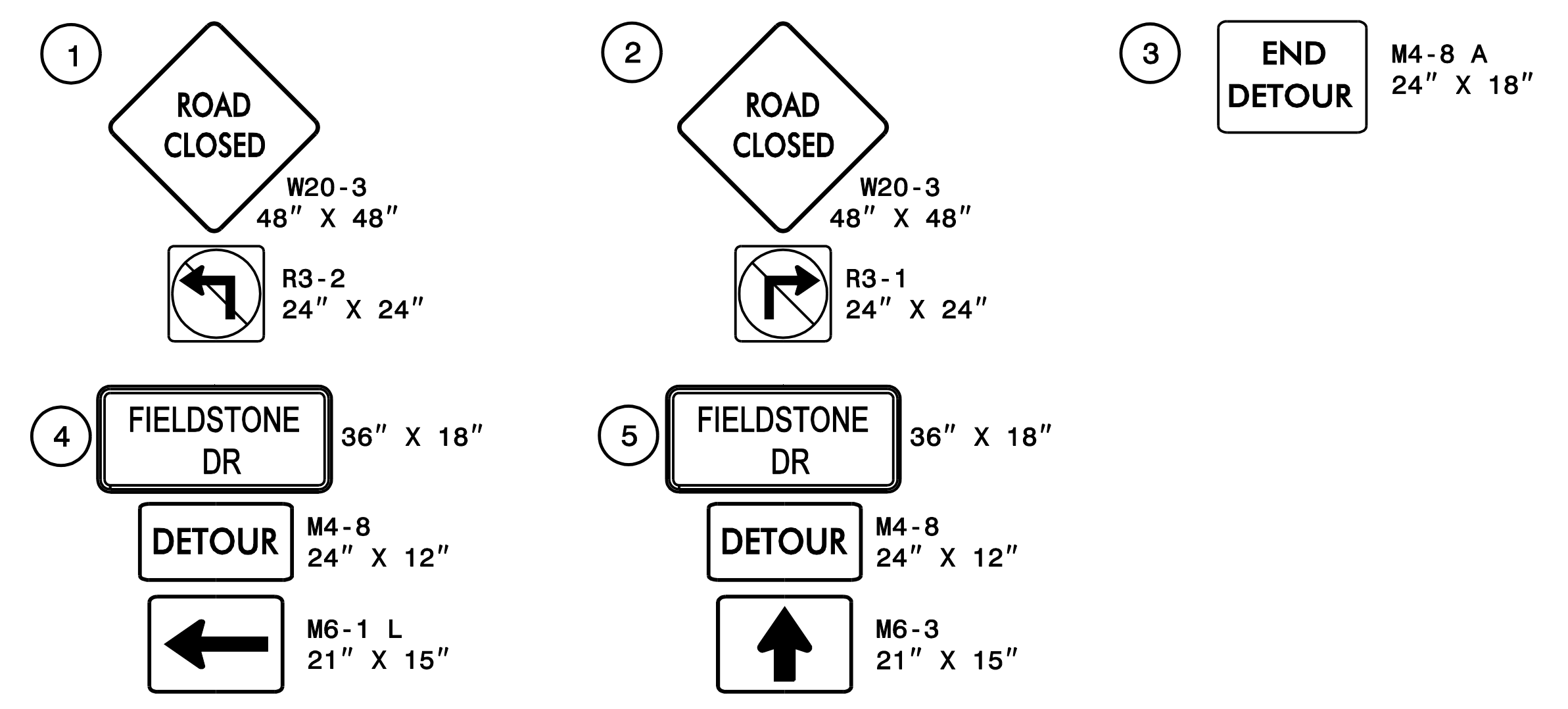
<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Janney</i> DATE: 3/9/2017</p> <p>SEAL</p> <p>NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465</p>	<p>DIVISION OF HIGHWAYS</p> <p>STATE OF NORTH CAROLINA</p> <p>DEPARTMENT OF TRANSPORTATION</p> <p>WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN</p> <p>OFF SITE DETOUR ROUTES</p>
--------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------

-Y9- (FIELDSTONE DR) CLOSURE AT -Y7B-



SEE NCDOT RSD #1101.03,
SHEET 1 OF 9, FOR
SIGNING AND DEVICES
PRIOR TO THIS POINT.

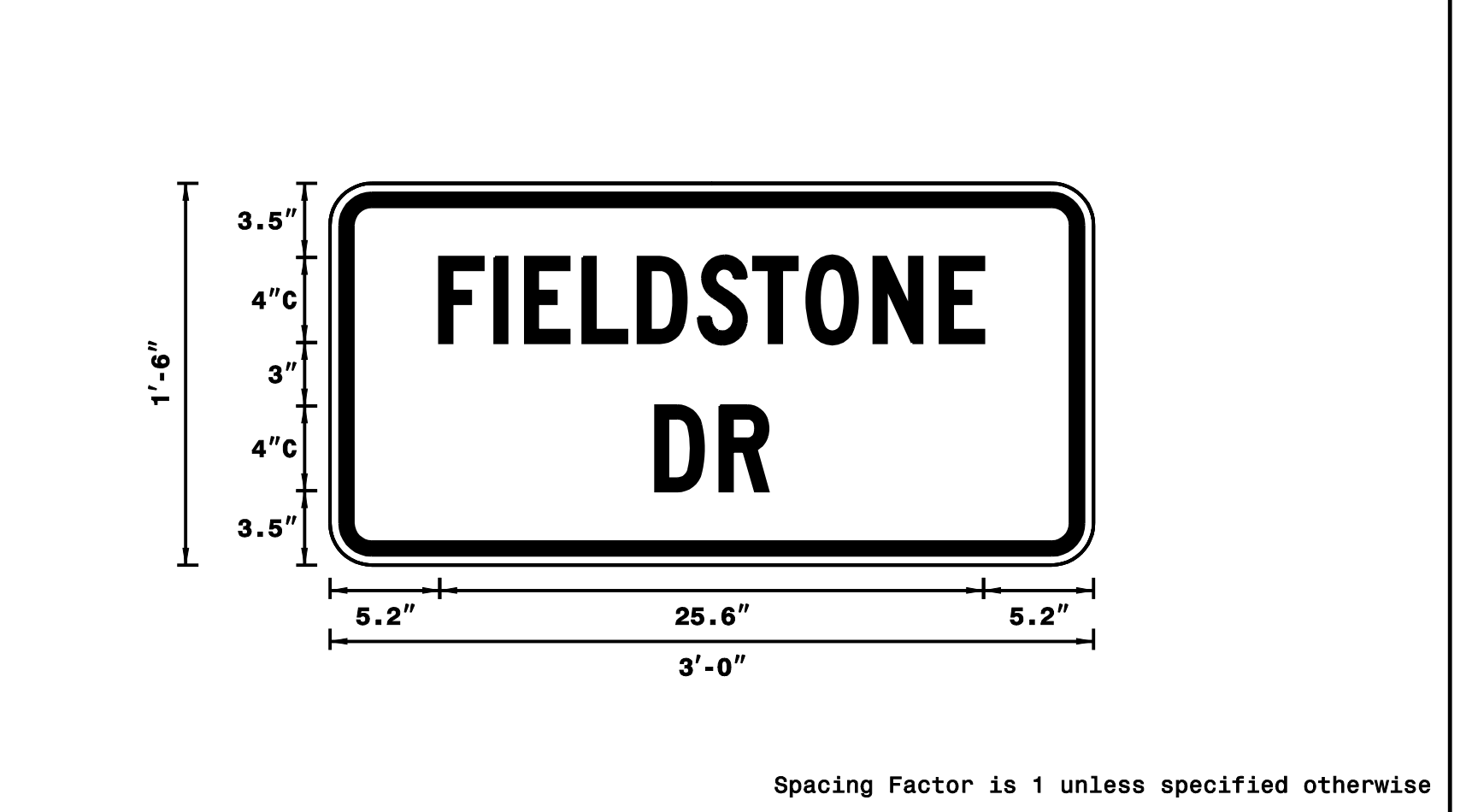
SEE NCDOT RSD #1101.03,
SHEET 2 OF 9, FOR
SIGNING AND DEVICES
PRIOR TO THIS POINT.



SIGN NUMBER: FIELDSTONE	BACKG COLOR: Fluorescent Orange	DESIGN BY: none	CHECKED BY:	DATE: Aug 12, 2016
TYPE: STATIONARY	COPY COLOR: Black	PROJECT ID: ID	DIV: DIV	
QUANTITY: SEE PLANS				

SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM



USE NOTES: 1,2

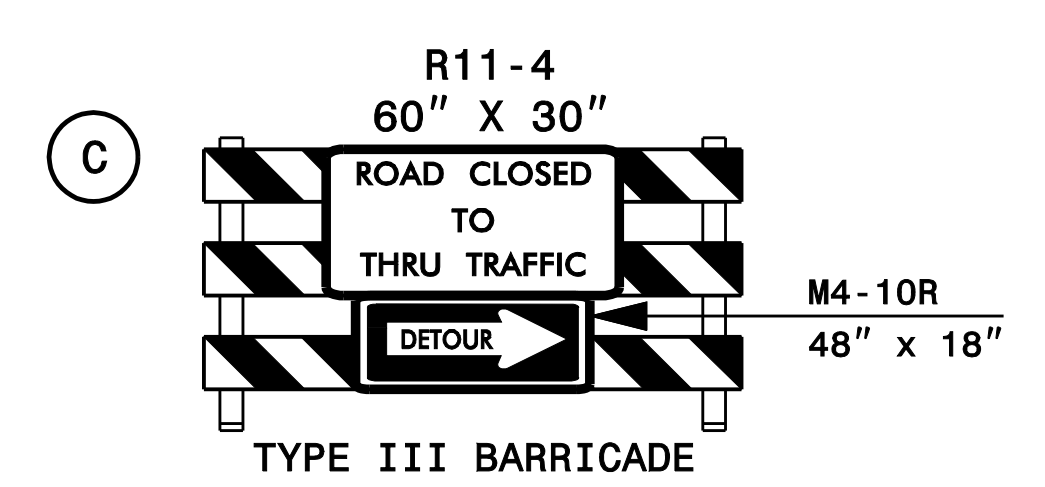
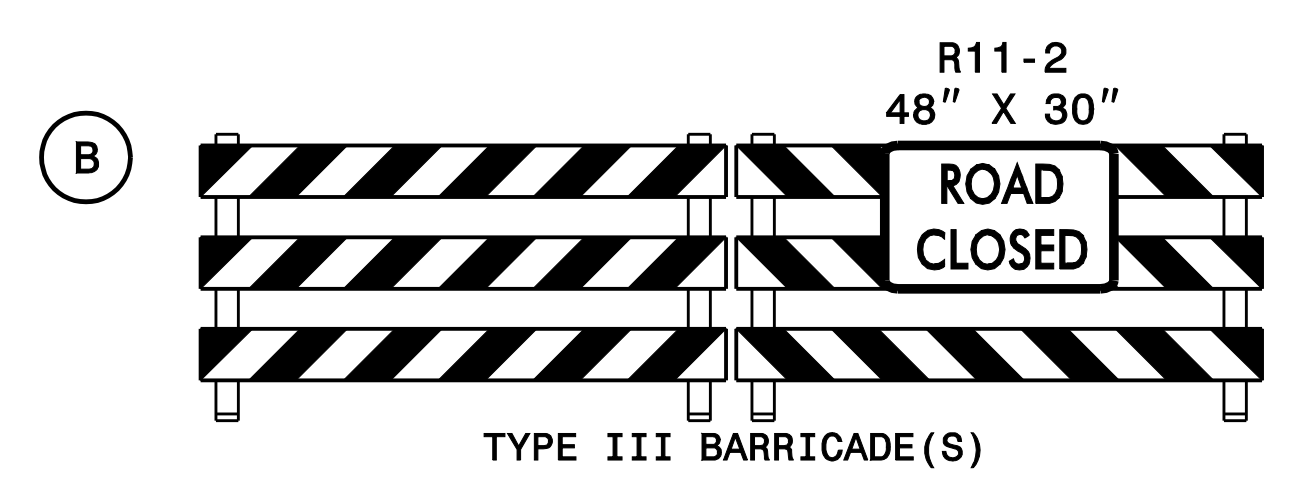
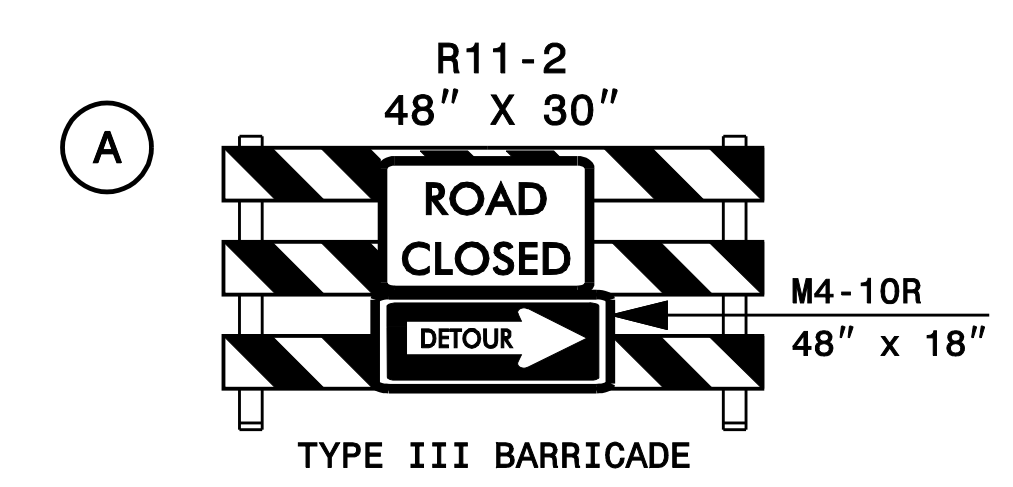
- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

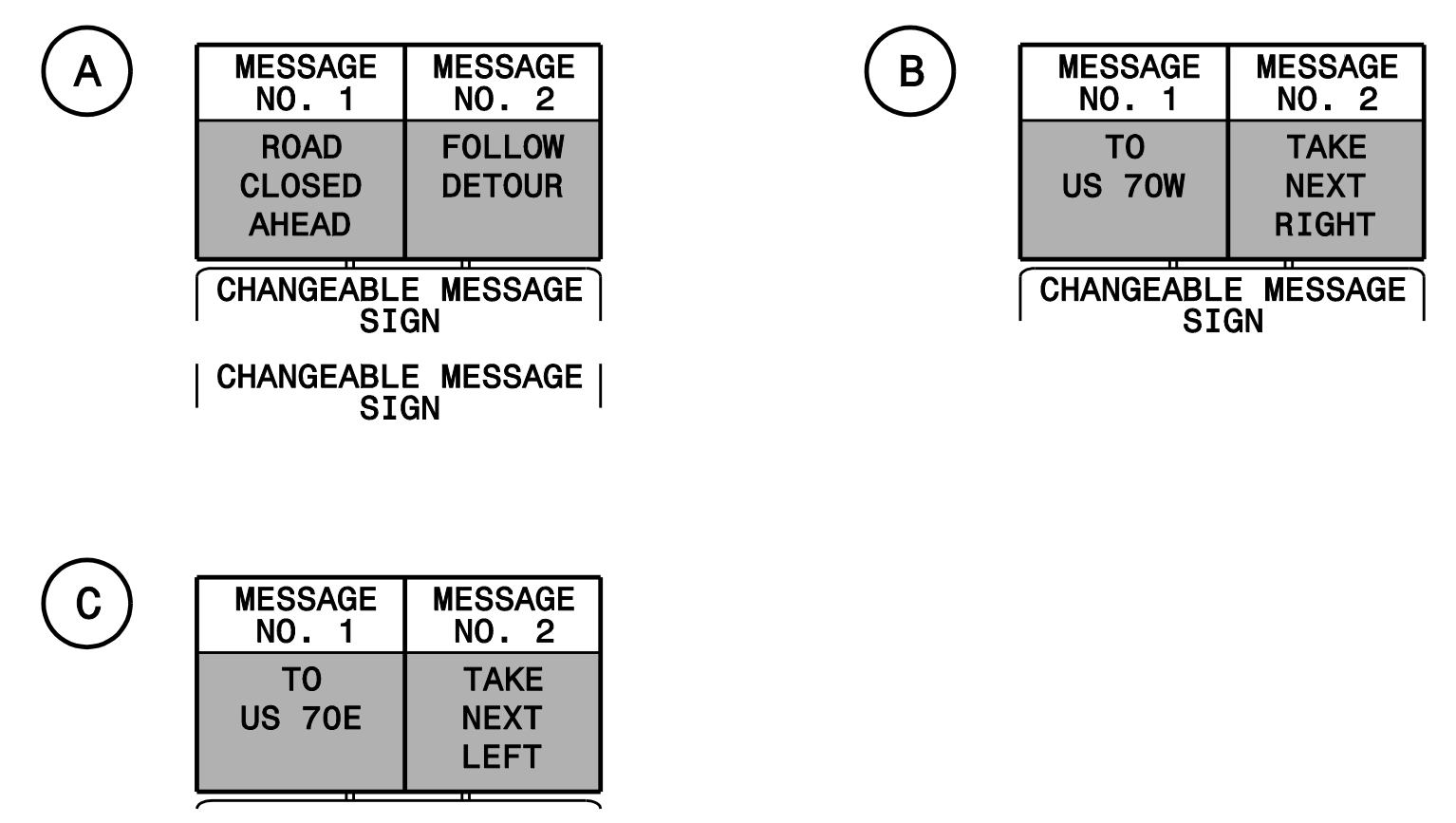
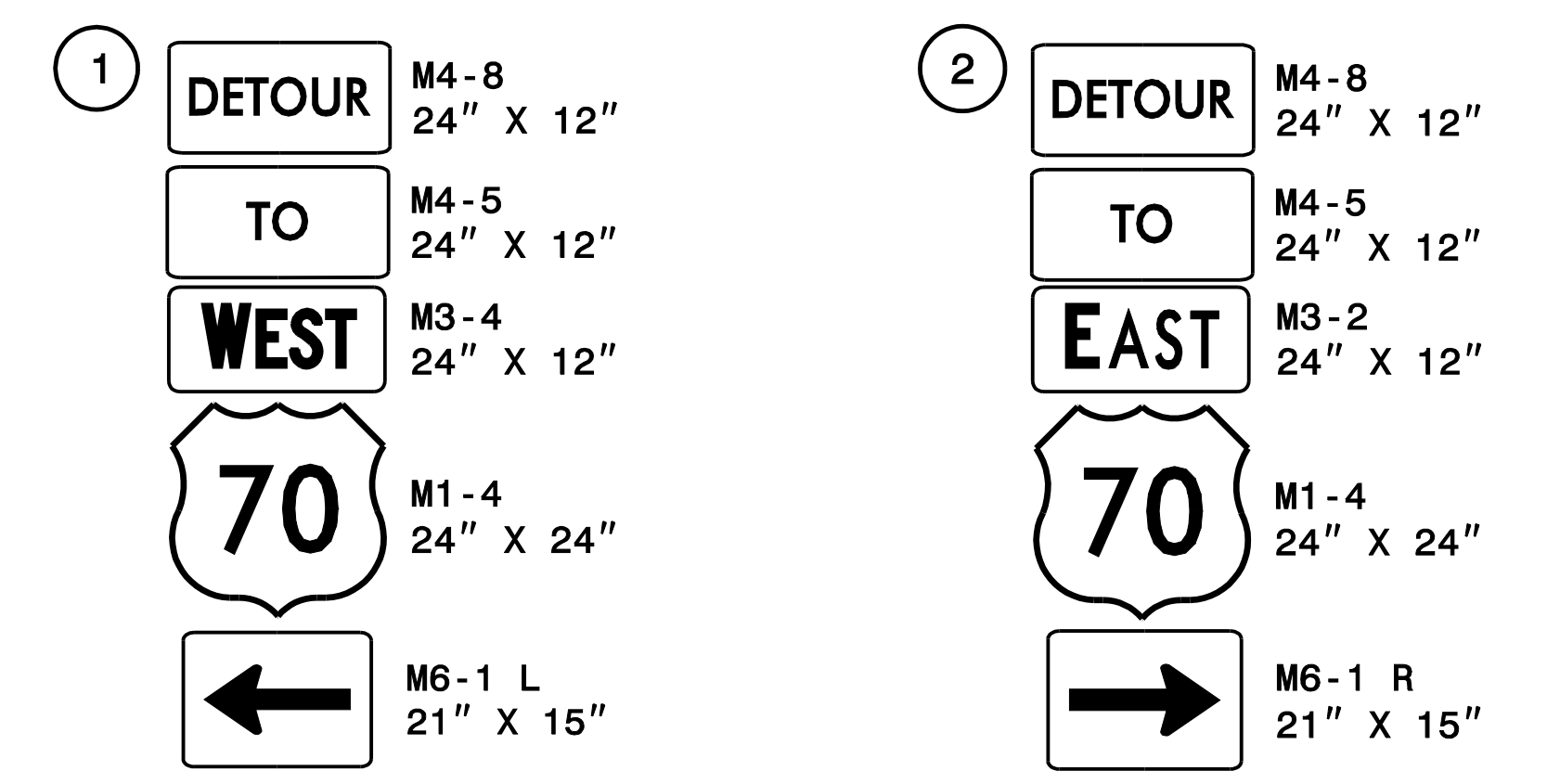
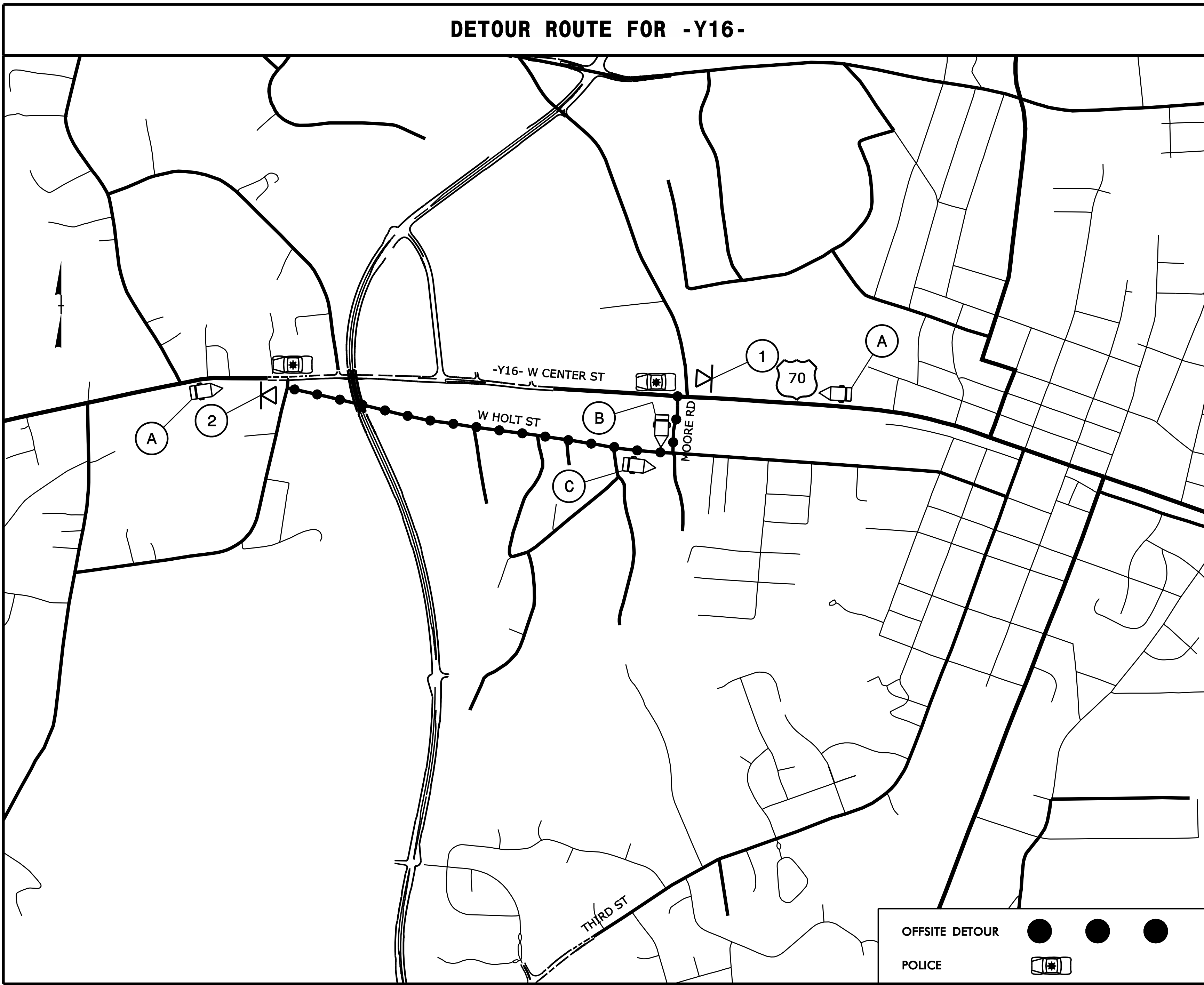
	F	I	E	L	D	S	T	O	N	E		Series/Size	
												Text Length	
	5.2	2.6	1.4	2.7	2.6	2.8	2.6	2.5	3.2	3.1	2	5.2	C 2000
													25.6
													C 2000
	15.4	3	2.2	15.4									5.3

NORTH CAROLINA D.O.T. SIGN DETAIL



DETOUR ROUTE FOR WORK ITEMS
REQUIRING CLOSURE OF -Y9-

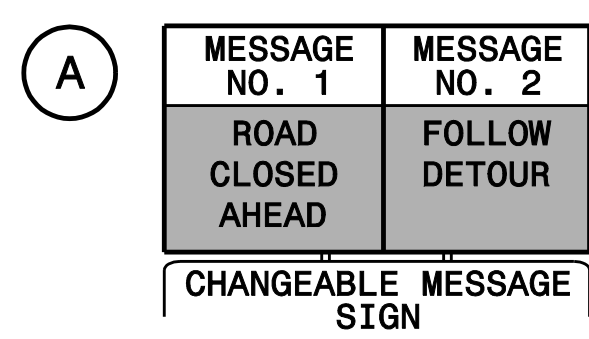
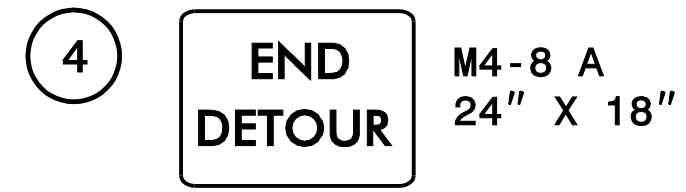
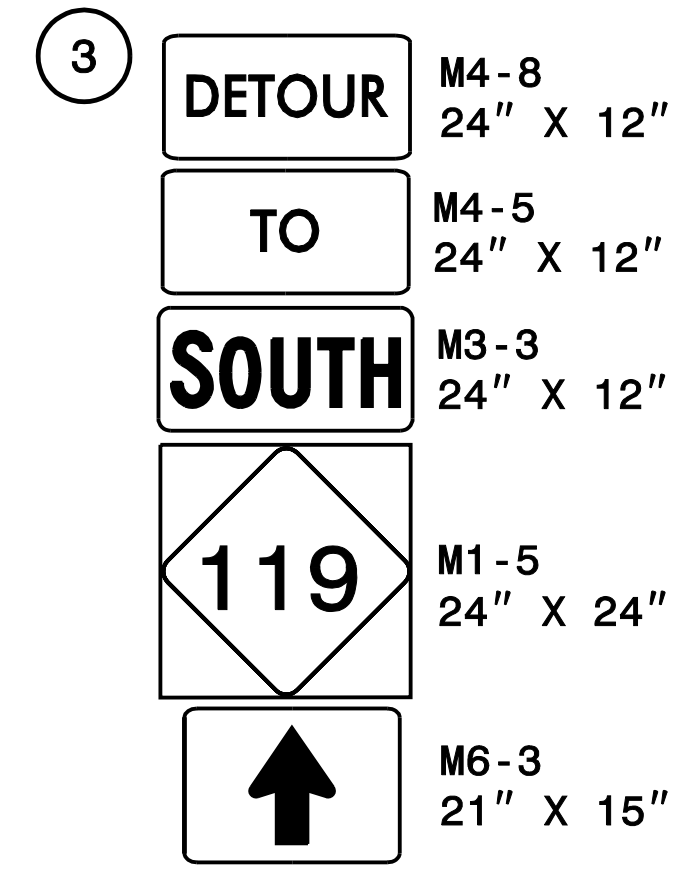
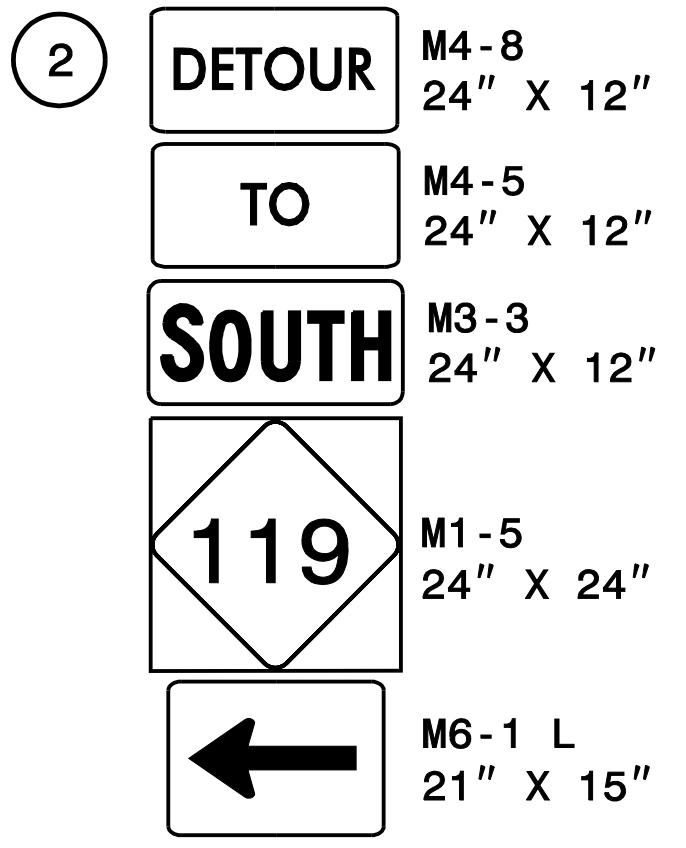
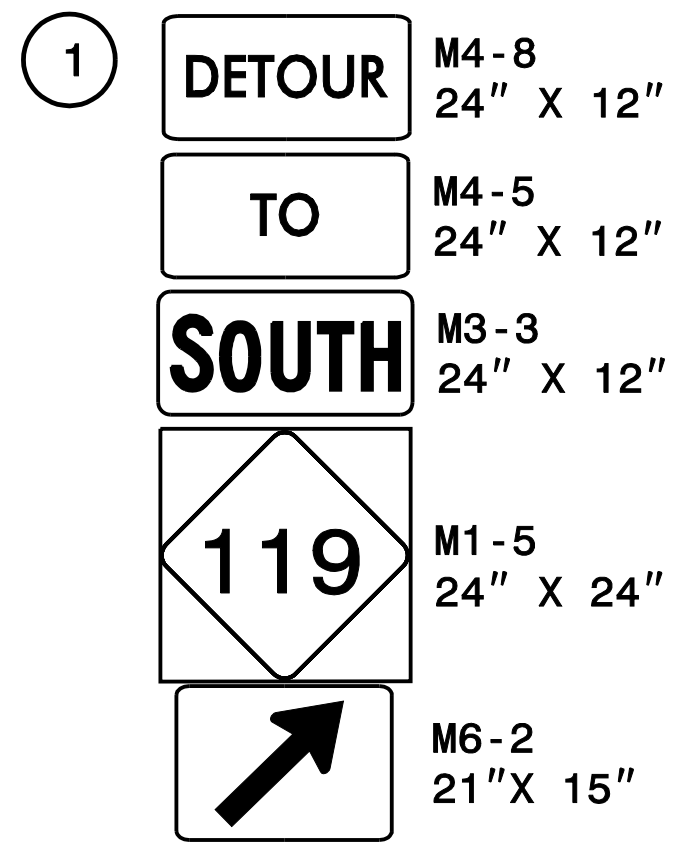
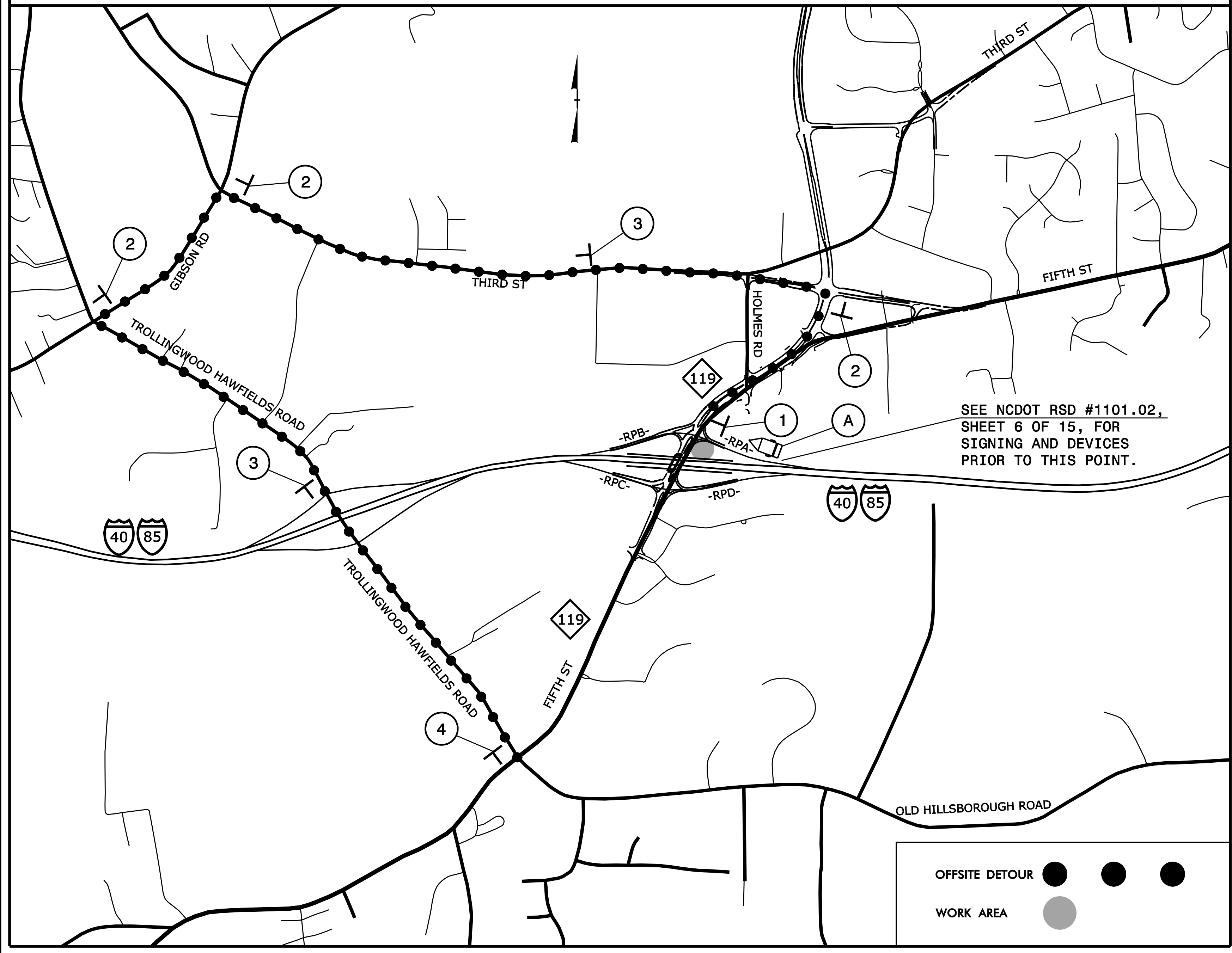
PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: <i>John Day</i> DATE: 3/9/2017	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	TRANSPORTATION MANAGEMENT PLAN OFF SITE DETOUR ROUTES
	SEAL 		



DETOUR ROUTE FOR WORK ITEMS REQUIRING CLOSURE OF -Y16-

<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>John Gray</i> DATE: 3/9/2017</p>			<p>TRANSPORTATION MANAGEMENT PLAN</p> <p>OFF SITE DETOUR ROUTES</p>
--------------------------------------------------------------------------------------------------------------------	--------------------------------------------------	--	--	----------------------------------------------------------------------------

DETOUR ROUTE FOR LEFT TURN MOVEMENT FROM -RPA- TO -L-



DETOUR ROUTE FOR WORK ITEMS REQUIRING CLOSURE OF THE -RPA- LEFT TURN LANE

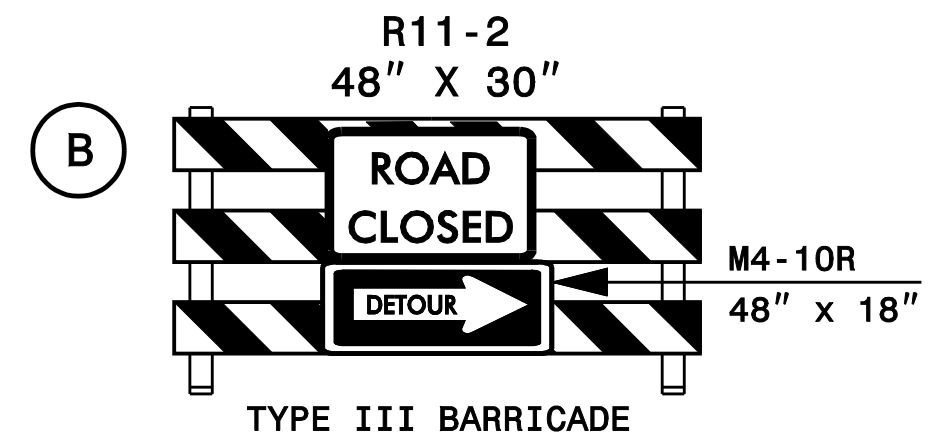
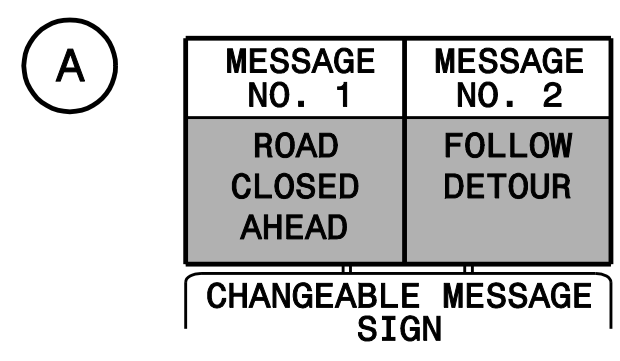
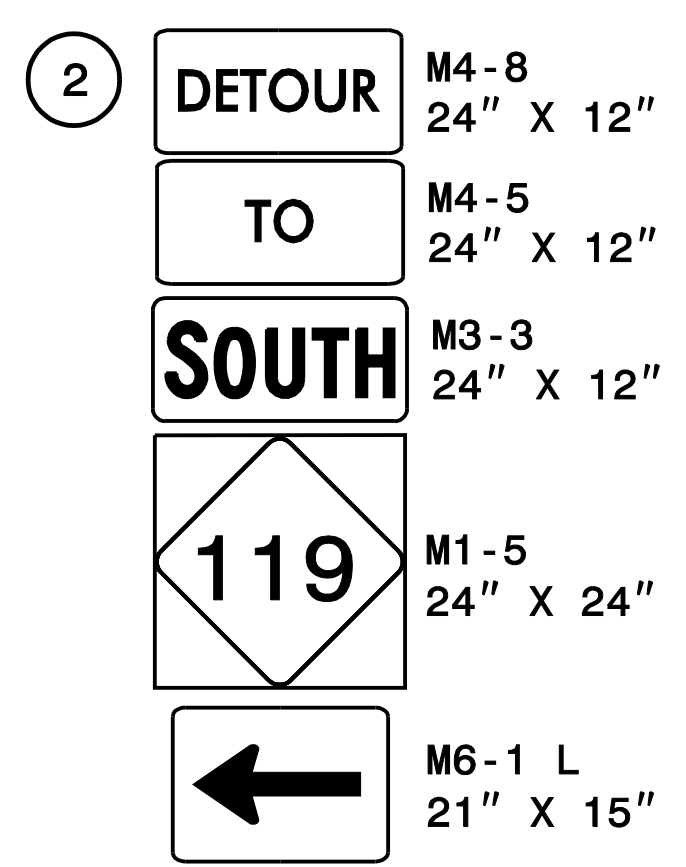
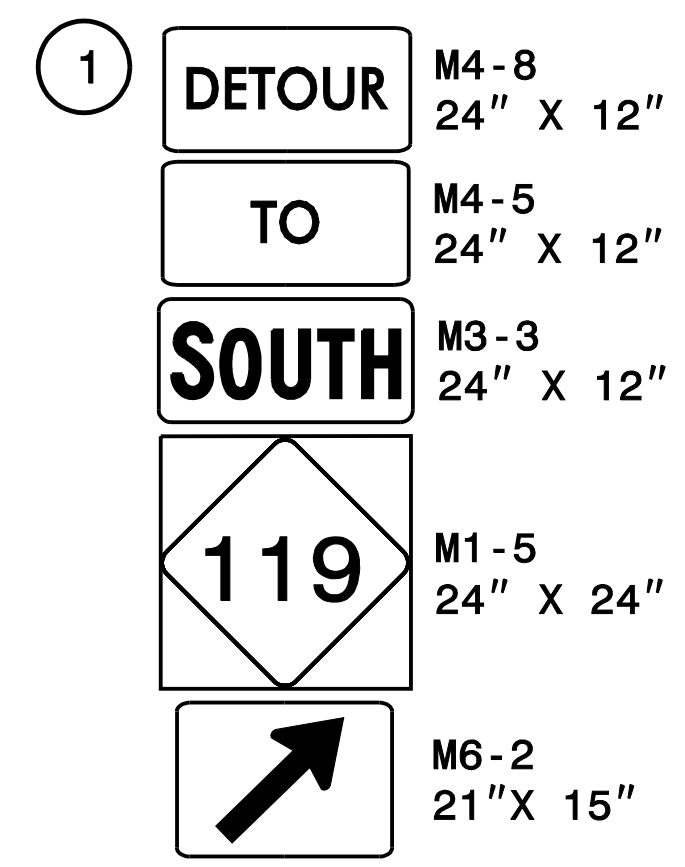
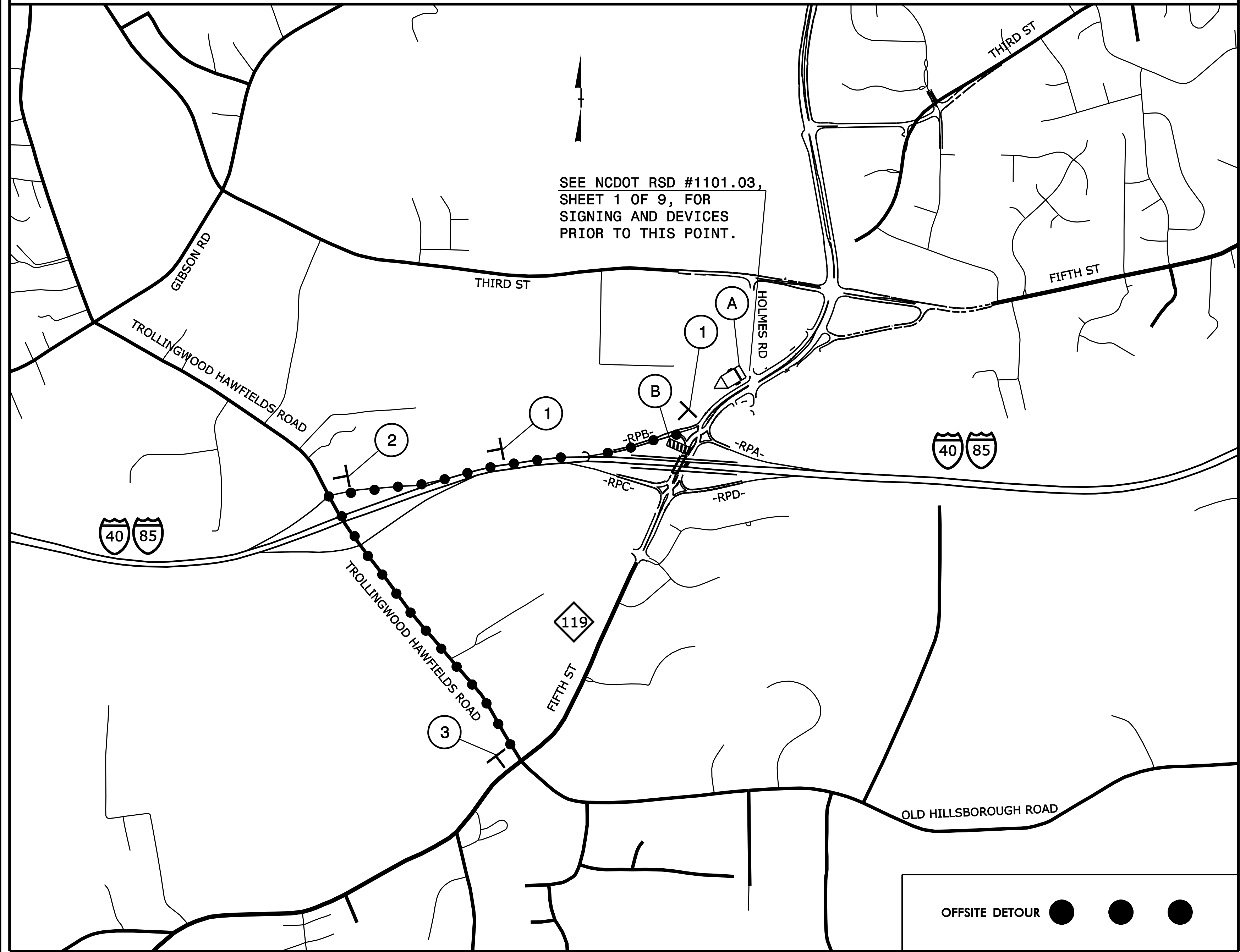
PLAN PREPARED IN THE OFFICE OF:
PROGRESSIVE DESIGN GROUP, INC.
ENGINEERS • CONSULTANTS

APPROVED: *Jim Gray* DATE: 3/9/2017

SEAL

**TRANSPORTATION
MANAGEMENT PLAN
OFF SITE DETOUR ROUTES**

DETOUR ROUTE FOR SB -L- OVER I-85 MOVEMENT



DETOUR ROUTE FOR WORK ITEMS REQUIRING CLOSURE OF SOUTHBOUND -L- OVER I-85

PLAN PREPARED IN THE OFFICE OF:

PROGRESSIVE DESIGN GROUP, INC.

ENGINEERS • CONSULTANTS

APPROVED: *John Day* DATE: 3/9/2017

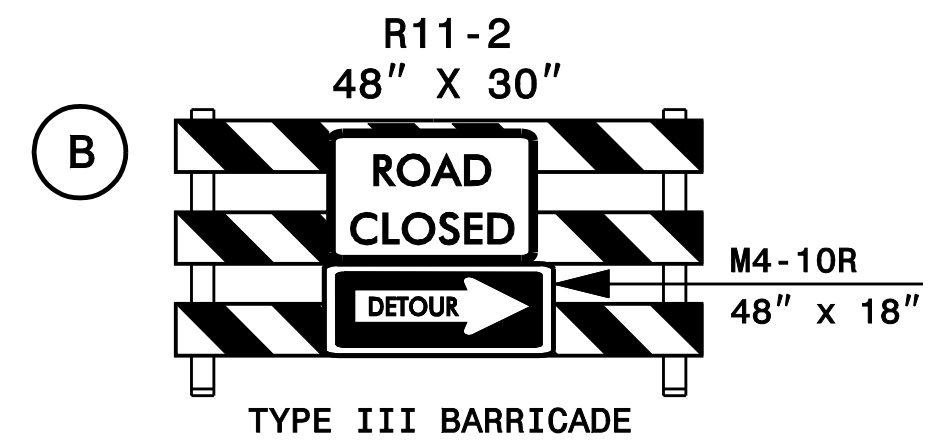
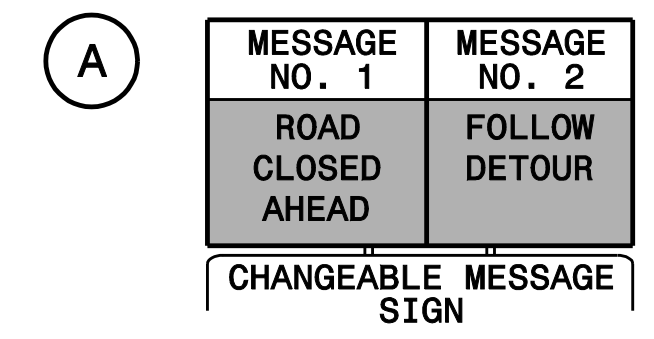
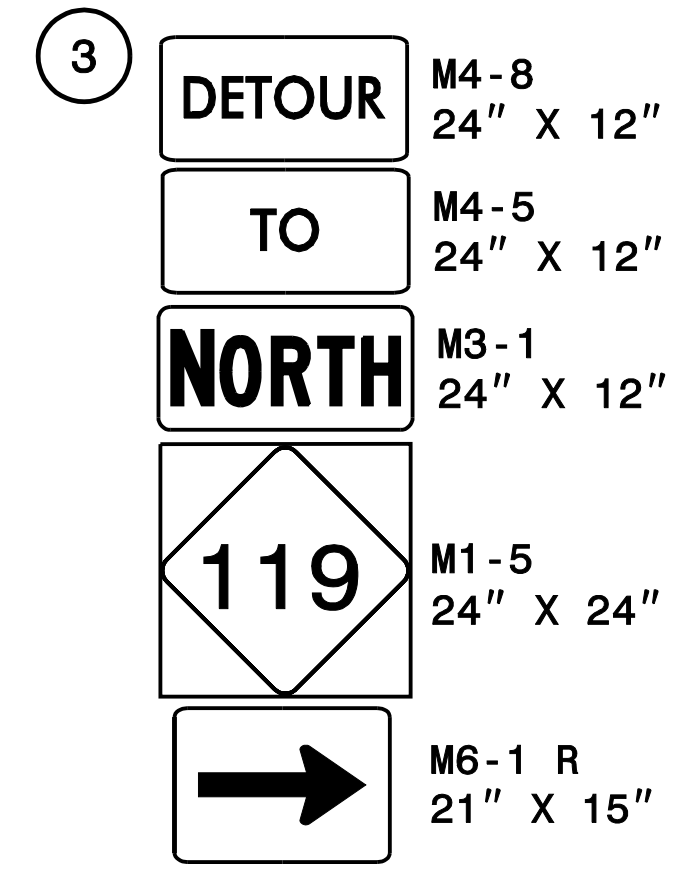
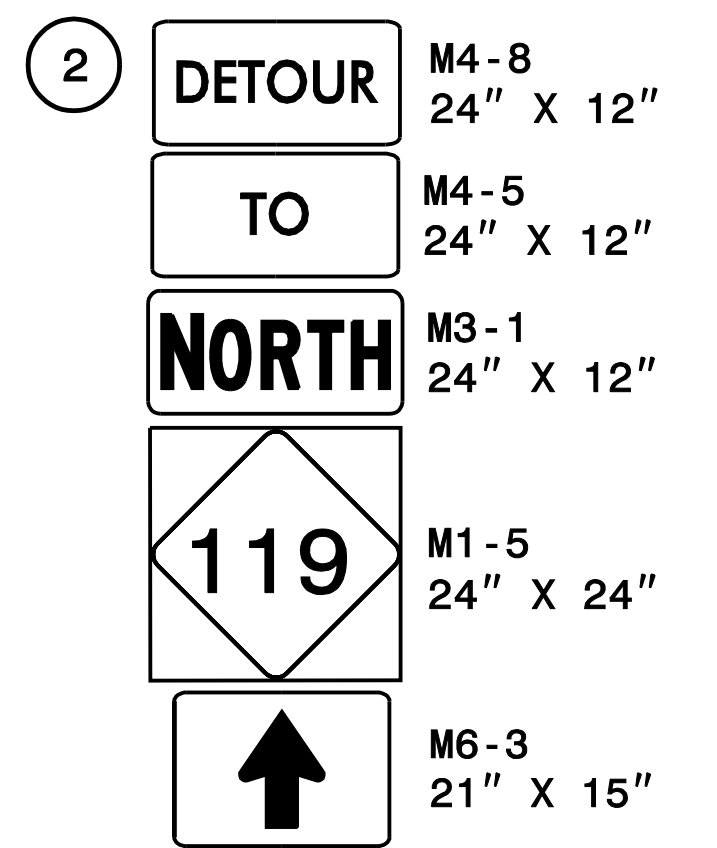
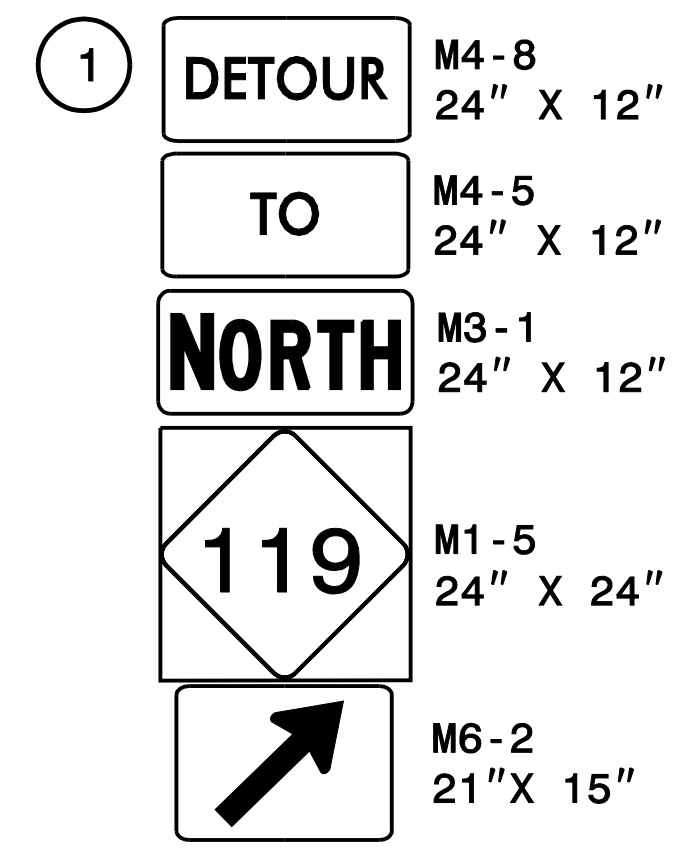
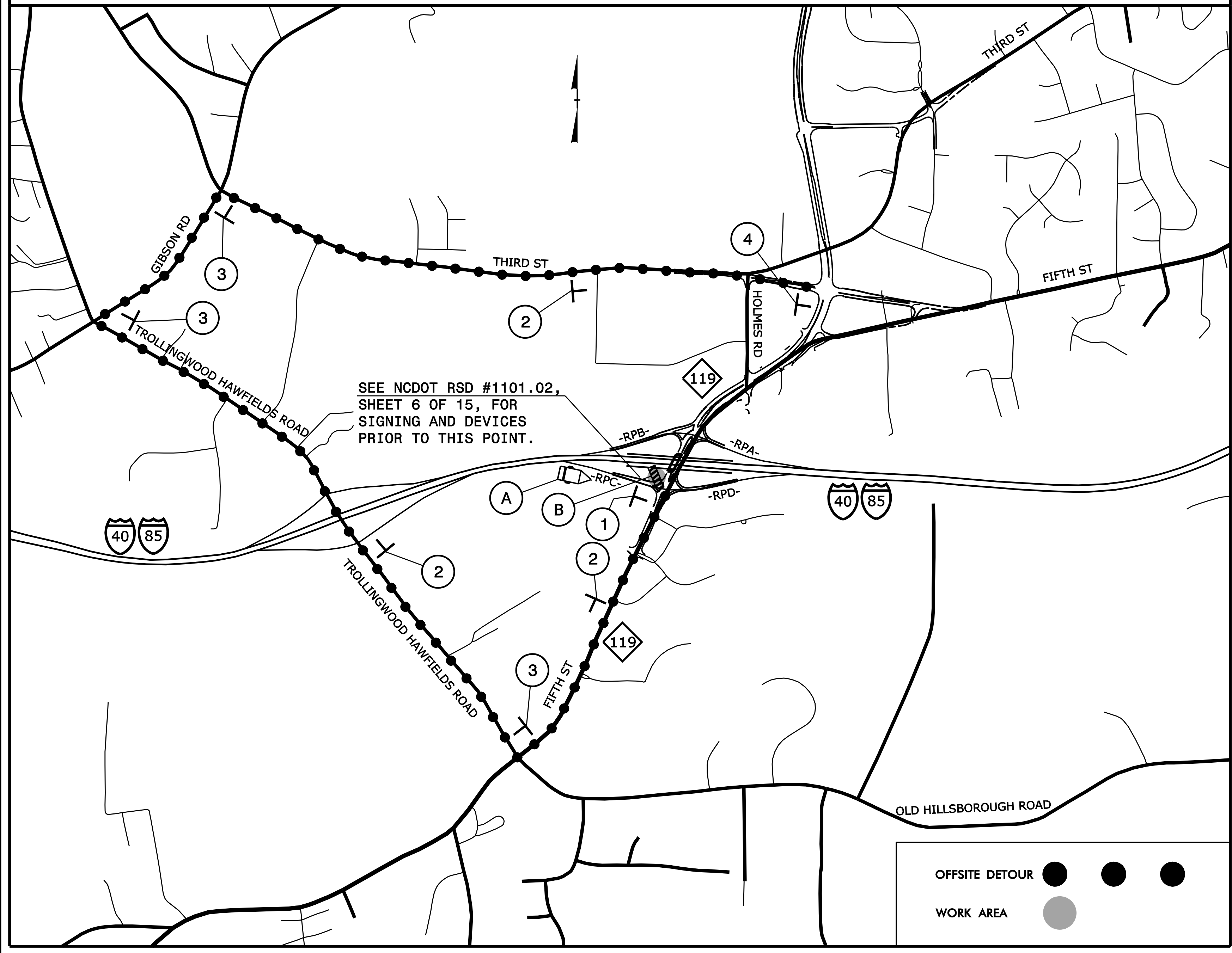
SEAL

WORK ZONE TRAFFIC CONTROL

TRANSPORTATION MANAGEMENT PLAN

OFF SITE DETOUR ROUTES

DETOUR ROUTE FOR LEFT TURN MOVEMENT FROM -RPC- TO -L-



DETOUR ROUTE FOR WORK ITEMS REQUIRING CLOSURE OF THE -RPC- LEFT TURN LANE

PLAN PREPARED IN THE OFFICE OF:

PROGRESSIVE DESIGN GROUP, INC.

ENGINEERS • CONSULTANTS

APPROVED: *[Signature]* DATE: 3/9/2017

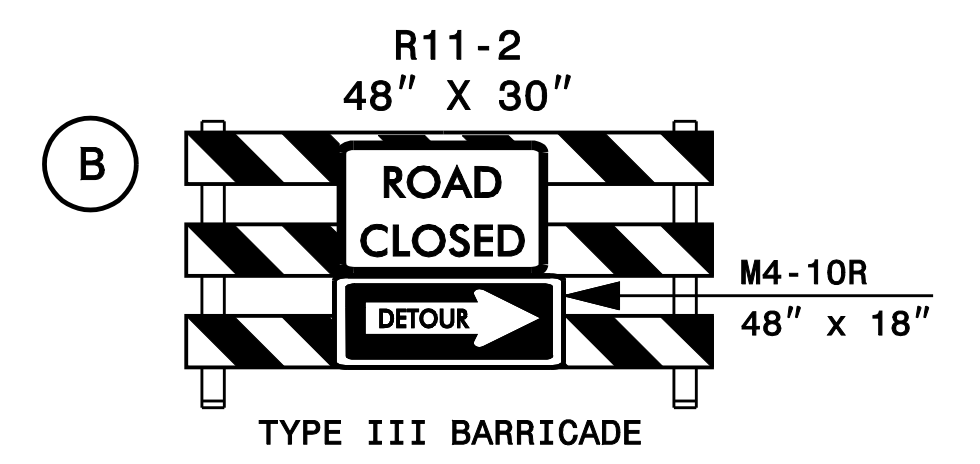
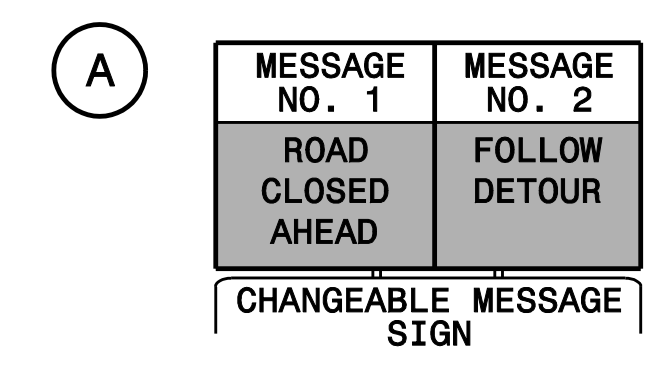
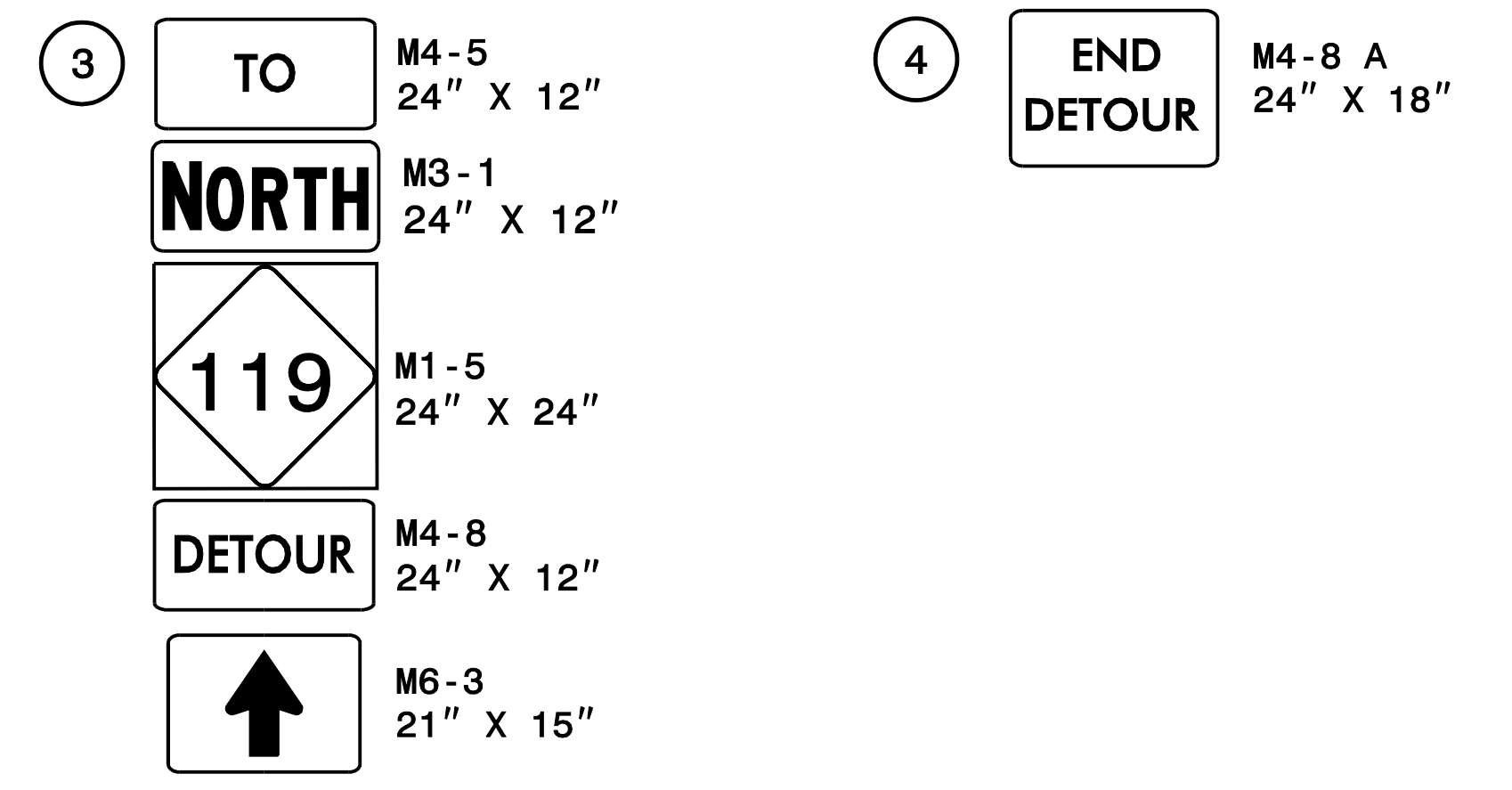
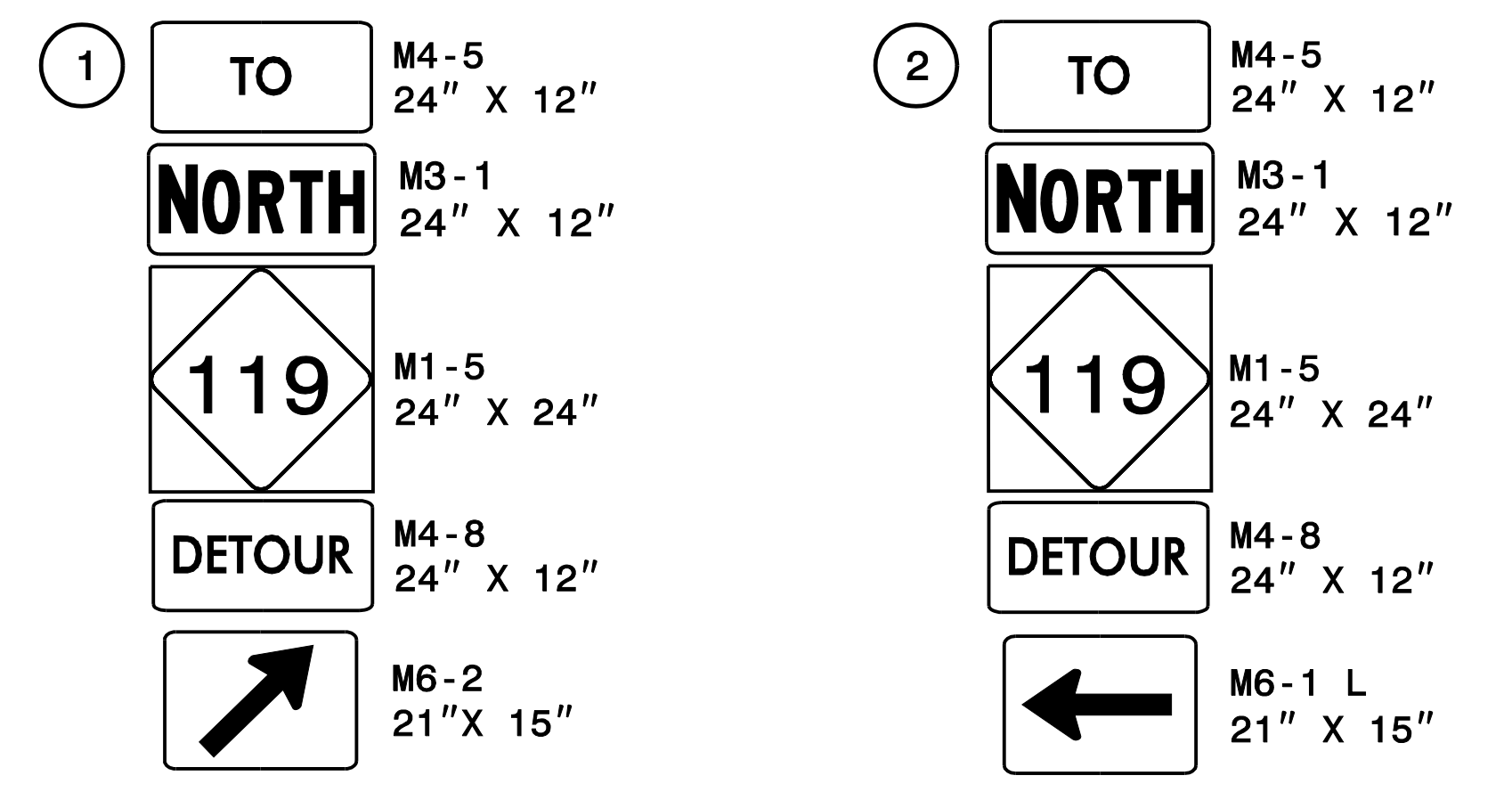
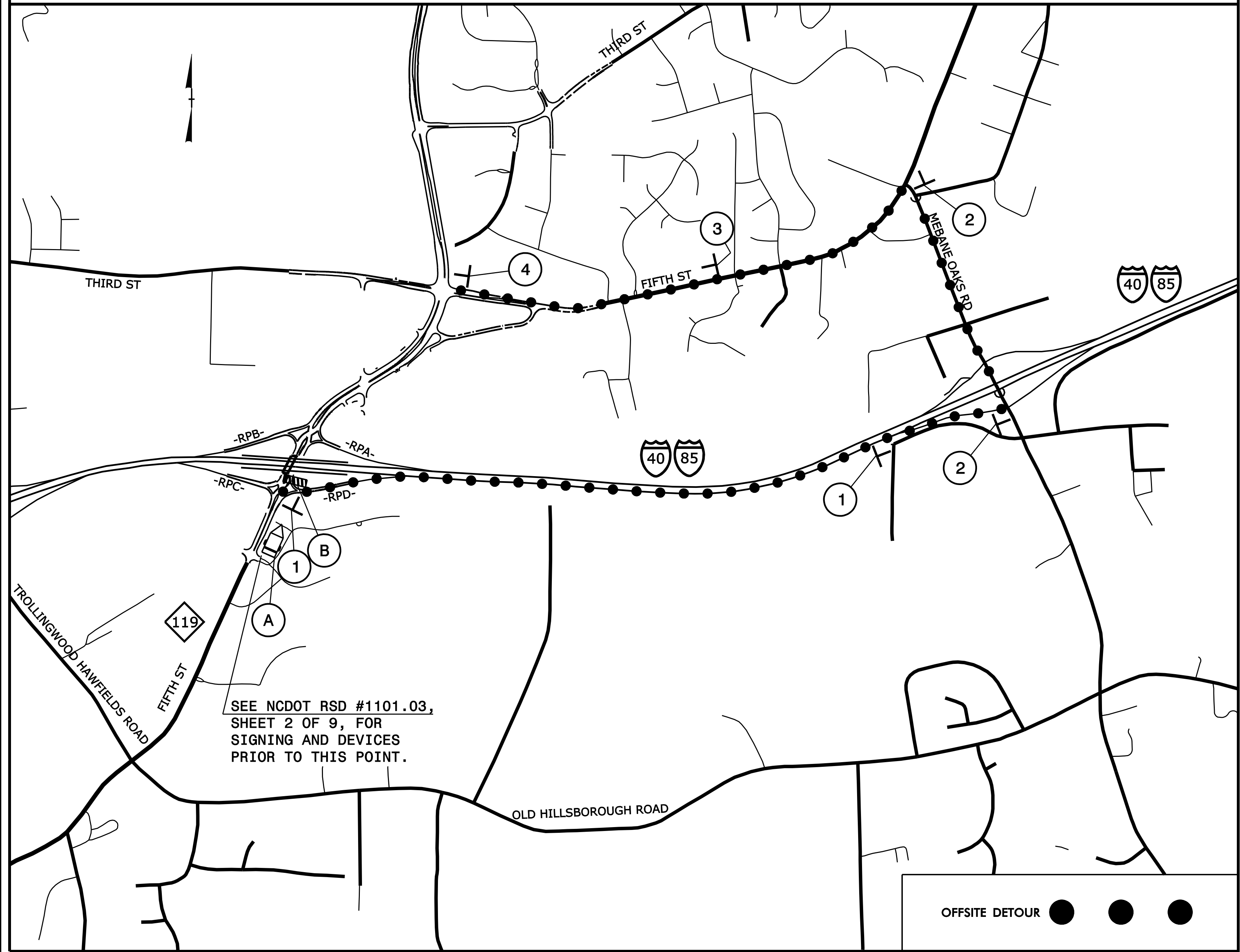
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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

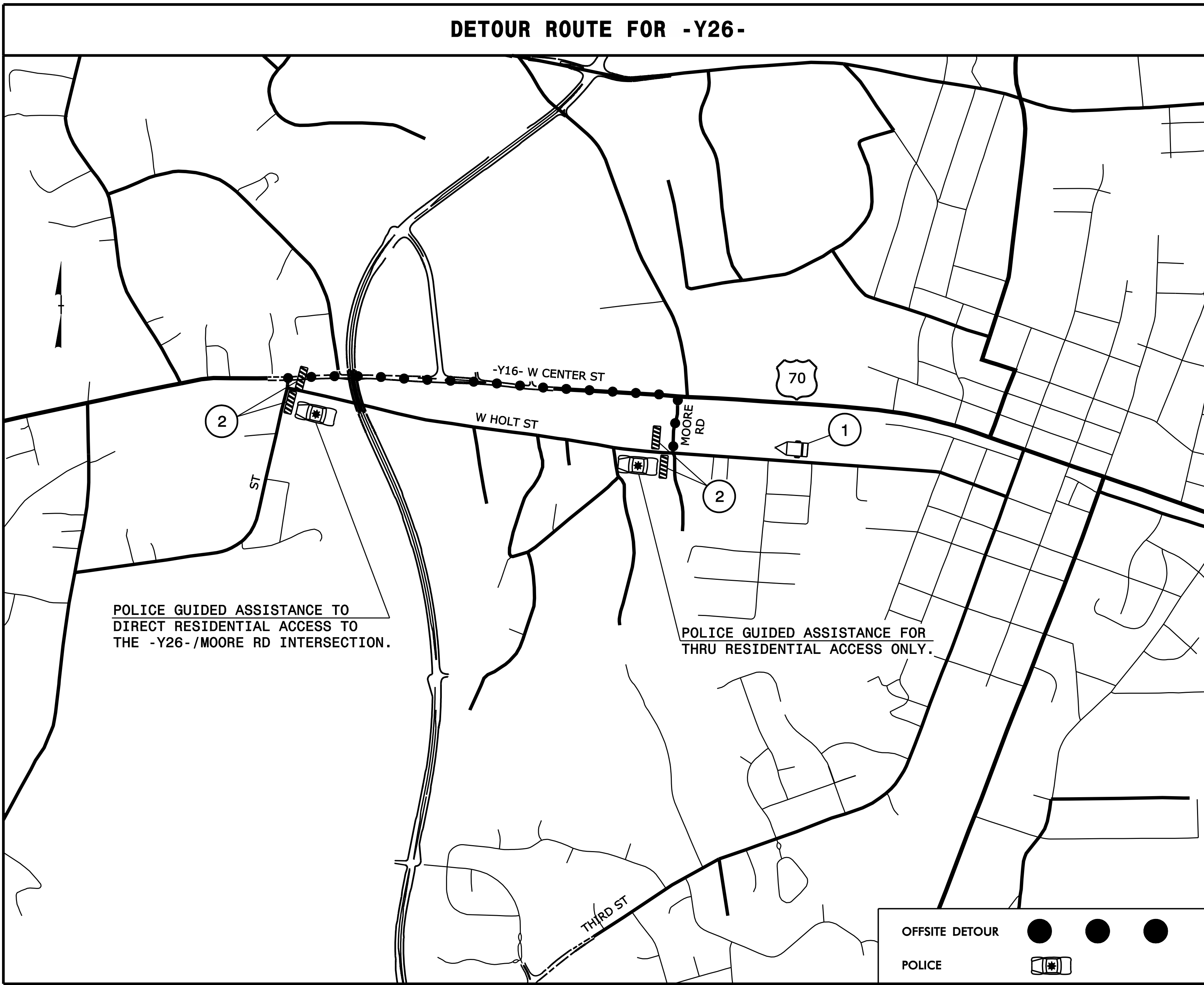
**TRANSPORTATION MANAGEMENT PLAN
OFF SITE DETOUR ROUTES**

DETOUR ROUTE FOR NB -L- OVER I-85 MOVEMENT



DETOUR ROUTE FOR WORK ITEMS REQUIRING CLOSURE OF NORTHBOUND -L- OVER I-85

<p>PLAN PREPARED IN THE OFFICE OF:</p> <p align="center">PROGRESSIVE DESIGN GROUP, INC.</p> <p align="center">ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>[Signature]</i> DATE: 3/9/2017</p> <p align="center">SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN OFF SITE DETOUR ROUTES</p>
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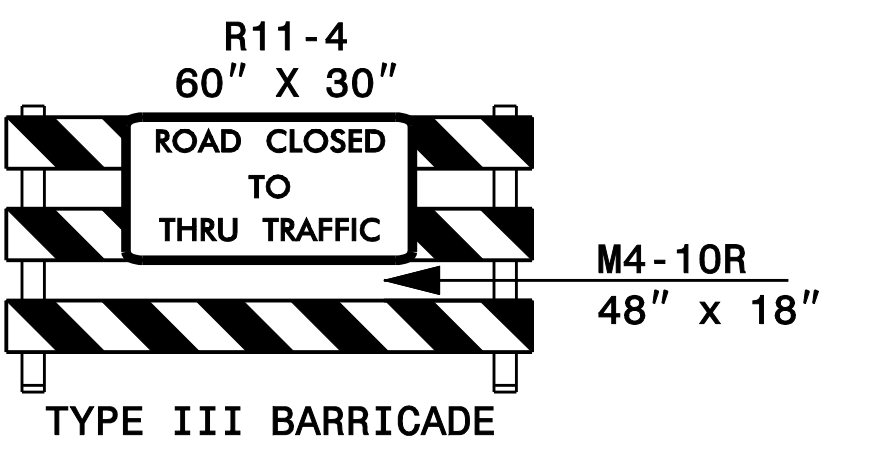


1

MESSAGE NO. 1 ROAD CLOSED AHEAD	MESSAGE NO. 2 FOLLOW DETOUR
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CHANGEABLE MESSAGE SIGN

2



DETOUR ROUTE FOR WORK ITEMS REQUIRING CLOSURE OF -Y26-

PLAN PREPARED IN THE OFFICE OF:

PROGRESSIVE
DESIGN GROUP, INC.

ENGINEERS • CONSULTANTS

APPROVED: *John Gray* DATE: 3/9/2017

SEAL

**TRANSPORTATION
MANAGEMENT PLAN
OFF SITE DETOUR ROUTES**

COMPLETE THE WORK REQUIRED OF PLACING -L-, -Y2-, -Y3-, -Y5A- AND -Y5B- TRAFFIC IN THE DIVERGING DIAMOND INTERCHANGE PATTERN SHOWN ON SHEETS TMP-28 THRU TMP-32 AS DESCRIBED IN STEPS 4 AND 5 OF PHASE II BEGINNING ON THE DATE THAT THE WORK REQUIRED OF PHASE I, STEP 1 IS BEGUN. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

COMPLETE THE WORK REQUIRED OF PLACING -L-, -Y6-, -Y6A-, -Y7-, -Y7A-, -Y7B- AND -DWY3- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-34 THRU TMP-44 AS DESCRIBED IN STEPS 6A AND 6B OF PHASE II IN 550 DAYS BEGINNING ON THE DATE THAT THE WORK REQUIRED OF PHASE I STEP 1 IS BEGUN. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

NOTE: THERE ARE WORK ITEMS DESCRIBED WITHIN THIS WRITTEN PHASING THAT ARE NOT REQUIRED TO BE COMPLETED IN ORDER TO PLACE TRAFFIC IN THE PATTERNS SPECIFIED IN THE 2 INTERMEDIATE CONTRACT TIMES LISTED ABOVE. IN SUCH CASES, THE CONTRACTOR MAY ELECT TO SHIFT THESE WORK ITEMS TO A LATER PHASE OR STEP IN ORDER TO MEET THE TIME REQUIREMENTS SPECIFIED WITHIN THE 2 INTERMEDIATE CONTRACT TIMES LISTED ABOVE.

PHASE I

STEP 1: INSTALL ADVANCE WORK ZONE WARNING SIGNS ON ALL ROADWAYS WITHIN THE PROJECT LIMITS ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.01.

COMPLETE THE WORK REQUIRED OF PHASE I, STEP 2A THRU STEP 2F IN 60 CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 4 OF 15, COMPLETE THE FOLLOWING:

- MILL THE RUMBLE STRIPS OFF OF THE EXISTING I-85 NORTHBOUND AND SOUTHBOUND OUTSIDE SHOULDER IN THE LOCATIONS WHERE THE NEW TEMPORARY PAVEMENT MARKINGS WILL BE TRAVERSING ONTO THE SHOULDER AS SHOWN ON SHEETS TMP-4, TMP-12, AND TMP-13. REPLACE THE MILLED SECTIONS OF ROADWAY WITH SURFACE COURSE AS SHOWN IN THE ROADWAY DESIGN PLAN TYPICALS.
- THE PLACEMENT OF THE PATTERN MASKING AND THE WZ PERFORMANCE PAVEMENT MARKINGS AND MARKERS ON NORTHBOUND AND SOUTHBOUND I-85 AND PLACE NORTHBOUND AND SOUTHBOUND I-85 TRAFFIC INTO THE PATTERNS SHOWN ON SHEETS TMP-4, TMP-12 AND TMP-13.
- INSTALL TEMPORARY CRASH CUSHIONS, PORTABLE CONCRETE BARRIER, AND DRUMS ON NORTHBOUND AND SOUTHBOUND I-85 IN THE LOCATIONS SHOWN ON SHEETS TMP-4, TMP-12 AND TMP-13.
- CONSTRUCT THE CENTER SUPPORT FOR THE PROPOSED -L- BRIDGE OVER I-85 AND REPLACE ANY PERMANENT MEDIAN BARRIER ALONG I-85 THAT WAS REMOVED FOR THE CENTER SUPPORT CONSTRUCTION.
- REMOVE THE PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS LOCATED IN THE MEDIAN OF NORTHBOUND AND SOUTHBOUND I-85. PLACE THE PATTERN MASKING AND THE WZ PERFORMANCE PAVEMENT MARKINGS AND MARKERS ON NORTHBOUND AND SOUTHBOUND I-85 BACK TO THE ORIGINAL PATTERN AND PLACE NORTHBOUND AND SOUTHBOUND I-85 TRAFFIC BACK TO THE ORIGINAL PATTERN.
- RELOCATE THE PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS LOCATED ON THE OUTSIDE SHOULDER OF NORTHBOUND AND SOUTHBOUND I-85 TO 2' OFF OF THE OUTSIDE EDGE LINE. ENSURE THE APPROACH ENDS OF THE PORTABLE CONCRETE BARRIER HAVE AN 8' OFFSET WITH A 15:1 FLARE RATE. SEE SHEETS TMP-12 AND TMP-13 FOR FLARE RATE.

STEP 3: BEGIN CONSTRUCTION ON THE FOLLOWING: (USE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15 WHEN CONSTRUCTION OPERATIONS MEET THE CRITERIA DESCRIBED IN GENERAL NOTE H ON SHEET TMP-1B)

- L-: INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ALONG THE WESTERN SIDE OF -L- IN THE LOCATIONS SHOWN ON SHEETS TMP-4, TMP-12 AND TMPXSC-I-1 AND BEGIN CONSTRUCTION ON THE REMAINING COMPONENTS OF THE PROPOSED -L- BRIDGE OVER I-85. IN THE LOCATIONS SHOWN ON SHEETS TMP-4, TMP-5, TMP-7, TMP-8, TMP-9, TMP-10, TMP-12, TMP-13, TMP-16, TMP-18, TMPXSC-I-1 AND TMPXSC-I-3. INSTALL TEMPORARY GUARDRAIL ALONG THE SOUTH SIDE OF -Y26- IN THE LOCATIONS SHOWN ON SHEET TMP-16 AND BEGIN CONSTRUCTION ON THE PROPOSED -L- BRIDGES OVER -Y26- IN THE LOCATIONS SHOWN ON SHEET TMP-16. SEE TMP-2M FOR OFFSITE DETOUR.

PHASING

STEP 3: (CONTINUED)

- L-: TEMPORARY PAVEMENT ALIGNMENT AT THIRD STREET IN THE LOCATIONS SHOWN ON SHEET TMP-5. THE VERTICAL GRADE ON THE TEMPORARY ALIGNMENT SHOULD TRANSITION FROM THE PROPOSED -L- ELEVATION AT STA. 56+00+/- DOWN TO THE EXISTING THIRD STREET ELEVATION AT STA. 57+75+/- AND THEN FROM THE EXISTING -L- ELEVATION AT STA. 58+25+/- BACK UP TO THE PROPOSED -L- ELEVATION AT STA. 60+00+/-.
- RPB-: IN THE LOCATIONS SHOWN ON SHEET TMP-4, TMP-12 AND TMPXSC-I-2.
- RPC-: IN THE LOCATIONS SHOWN ON SHEET TMP-4, TMP-12 AND TMPXSC-I-2.
- RPD-: IN THE LOCATIONS SHOWN ON SHEET TMP-4, TMP-12, TMP-13 AND TMPXSC-I-2.
- Y5A-: IN THE LOCATIONS SHOWN ON SHEET TMP-5.
- Y5C-: WEDGE EXISTING -Y5C- UP TO THE PROPOSED -Y7- ELEVATION IN CONJUNCTION WITH THE WEDGING OPERATION FOR -Y7- IN THE LOCATIONS SHOWN ON SHEET TMP-5 AND TMP-14. UPON COMPLETION OF THE WEDGING OPERATION, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y5C- IN THE PATTERN SHOWN ON SHEET TMP-14.
- Y6-: IN THE LOCATIONS SHOWN ON SHEETS TMP-5, TMP-6 AND TMPXSC-I-4. WEDGE EXISTING -Y6- UP TO THE PROPOSED -Y6- ELEVATION IN THE LOCATIONS SHOWN ON SHEETS TMP-6 PRIOR TO BEGINNING WIDENING CONSTRUCTION ALONG -Y6- IN THIS AREA.
- Y6A-: IN THE LOCATIONS SHOWN ON SHEETS TMP-6 AND TMPXSC-I-4. WEDGE EXISTING -Y6- UP TO THE PROPOSED -Y6A- ELEVATION IN THE LOCATIONS SHOWN ON SHEETS TMP-6 PRIOR TO BEGINNING WIDENING CONSTRUCTION ALONG -Y6A- IN THIS AREA.
- Y7-: IN THE LOCATIONS SHOWN ON SHEET TMP-5. WEDGE EXISTING -Y7- UP TO THE PROPOSED -Y7- ELEVATION IN CONJUNCTION WITH THE WEDGING OPERATION FOR -Y5C- IN THE LOCATIONS SHOWN ON SHEETS TMP-5 AND TMPXSC-I-3. UPON COMPLETION OF THE WEDGING OPERATION, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y7- IN THE PATTERN SHOWN ON SHEET TMP-14 AND BEGIN CONSTRUCTION ON THE PROPOSED -Y7- LEFT SIDE WIDENING IN THE LOCATIONS SHOWN ON SHEETS TMP-5, TMP-14 AND TMPXSC-I-3.
- Y7A-: IN THE LOCATIONS SHOWN ON SHEET TMP-7 AND TMP-15 FROM THE -L- INTERSECTION TO STA. 21+60+/-, FROM STA. 22+75+/- TO STA. 24+70+/- AND FROM STA. 25+50+/- TO STA. 34+00+/- INCLUDING THE TEMPORARY PAVEMENT WIDENING ADJACENT TO PROPOSED -Y7A- IN THE LOCATIONS SHOWN ON SHEETS TMP-7, TMP-15 AND TMPXSC-I-5. THE TEMPORARY PAVEMENT WIDENING SHOULD MATCH THE ELEVATION AND CROSS SLOPE OF PROPOSED -Y7A- AS SHOWN ON SHEET TMPXSC-I-5. SEE PHASE I, STEP 4A THROUGH 4E FOR DETAILED CONSTRUCTION PROCEDURE FOR -Y7A- AND -Y7ADET-.
- Y7B-: FROM THE -Y7A- INTERSECTION TO STA. 16+05+/- AS SHOWN ON SHEETS TMP-7 AND TMP-15.
- Y13-: IN THE LOCATIONS SHOWN IN THE ROADWAY DESIGN PLANS.
- Y26-: IN THE LOCATIONS SHOWN ON SHEET TMP-9.
- DWY2-: IN THE LOCATIONS SHOWN ON SHEETS TMP-5.
- DWY3-: IN THE LOCATIONS SHOWN ON SHEETS TMP-8.
- TEMPORARY TRAFFIC SIGNALS AT THE -L-/-Y2- INTERSECTION, THE -L-/-RPC- INTERSECTION AND THE -L-/-RPB- INTERSECTION FOR THE UPCOMING PHASE II TRAFFIC SHIFTS SHOWN ON SHEETS TMP-23 AND TMP-24.

STEP 4A: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL THE PORTIONS OF THE PROPOSED STORM WATER NETWORKS INCLUDING TEMPORARY EXTENSIONS AND TEMPORARY DRAINAGE DITCHES FOR -Y7A- AND -Y8- AS SHOWN ON SHEET TMP-15. CONSTRUCT PROPOSED -Y7ADET- IN THE LOCATIONS SHOWN ON SHEETS TMP-7 AND TMP-15. PERFORM WEDGING OPERATIONS ALONG EXISTING -Y7B- IN CONJUNCTION WITH THE CONSTRUCTION OF PROPOSED -Y7ADET-. THE -Y7B- WEDGING OPERATION SHOULD MATCH THE PROPOSED ELEVATION AND PROPOSED CROSS SLOPES OF -Y7ADET- IN THE LOCATIONS SHOWN ON SHEETS TMP-7 AND TMP-15.

STEP 4B: CONSTRUCT THE REMAINDER OF PROPOSED -Y7A- FROM STA. 21+60+/- TO STA. 22+75+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON SHEETS TMP-7 AND TMP-15. THE PROPOSED -Y7A- GRADE AND PROPOSED -Y7A- CROSS SLOPES AT STA. 23+50+/- SHOULD MATCH UP TO THE -Y7B- WEDGING OPERATION DESCRIBED ABOVE IN STEP 4A.

COMPLETE THE WORK REQUIRED OF PHASE I, STEP 4C THRU STEP 4G IN 60 CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 4C: INSTALL OFF SITE DETOUR SIGNS FOR -Y8- AS SHOWN ON SHEET TMP-2F AND ROADWAY STANDARD DRAWING NO. 1101.03 SHEETS 1 AND 2 OF 9 AND CLOSE -Y8- TO THROUGH TRAFFIC

STEP 4D: CONSTRUCT PROPOSED -Y8- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM THE -Y7A- INTERSECTION TO STA. 15+95+/- AS SHOWN ON SHEET TMP-19.

STEP 4E: INSTALL AND COVER OFF SITE DETOUR SIGNING FOR THE CLOSURE OF -Y9- AS SHOWN ON SHEET TMP-2G AND ROADWAY STANDARD DRAWING NO. 1101.03 SHEET 2 OF 9.

AWAY FROM TRAFFIC, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -Y7A- FOR THE UPCOMING TRAFFIC SHIFTS ON -Y7A- AS SHOWN ON SHEETS TMP-20 AND TMP-21.

COMPLETE THE WORK REQUIRED OF PHASE I, STEPS 4F THRU 4G IN 59 CONSECUTIVE HOURS BEGINNING AT 7:00PM ON A FRIDAY AND COMPLETING BY 6:00AM THE FOLLOWING MONDAY. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 4F: UNCOVER THE OFF SITE DETOUR SIGNING FOR -Y9- AND CLOSE -Y9- TO THRU TRAFFIC. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, PLACE -Y7A- TRAFFIC IN A ONE LANE TWO WAY PATTERN ON THE NEW PROPOSED -Y7A- ALIGNMENT. USE DRUMS (SPACED WITH A CLEAR WIDTH OPENING OF 20'+/-) TO CHANNELIZE THE ONE LANE TWO WAY TRAFFIC ON THE NEW -Y7A- ALIGNMENT. COMPLETE THE REMAINING COMPONENTS OF THE PROPOSED STORM WATER NETWORKS SHOWN ON SHEET TMP-20 ON -Y7A- AND -Y9- AND CONSTRUCT PROPOSED -Y9- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM THE PROPOSED -Y7A- INTERSECTION TO STA. 12+55+/- -Y9- AS SHOWN ON SHEET TMP-20.

STEP 4G: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ALONG -Y7A-, -Y7B-, -Y8-, AND -Y9- IN THE LOCATIONS SHOWN ON SHEETS TMP-20 AND TMP-21. PLACE -Y7A-, -Y7B-, -Y8-, AND -Y9- TRAFFIC IN THE PATTERNS SHOWN ON SHEETS TMP-20 AND TMP-21. COVER OR REMOVE THE ROAD CLOSURE AND OFFSITE DETOUR SIGNING FOR -Y9-.

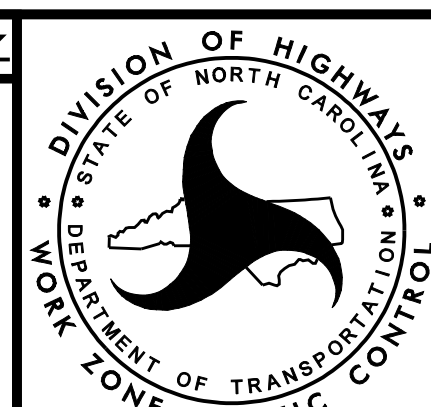
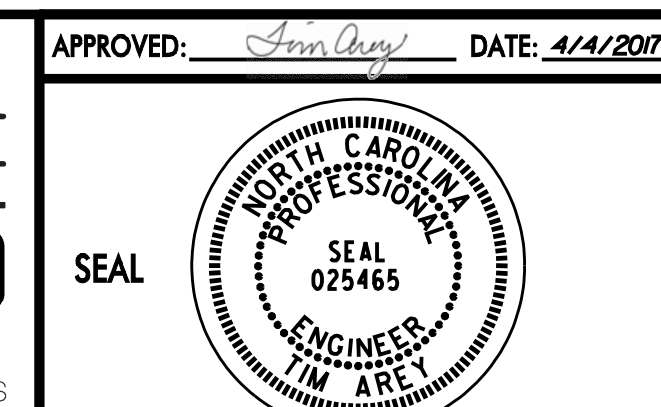
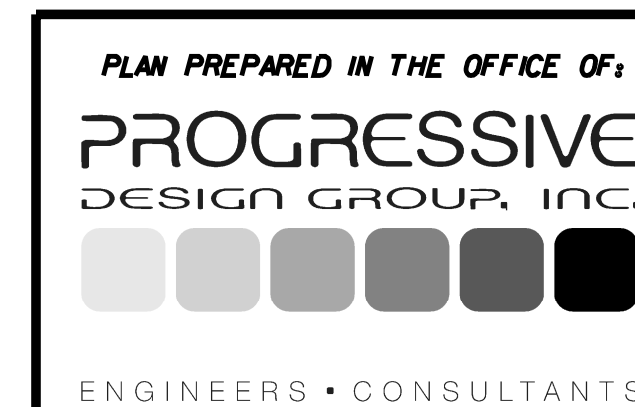
STEP 5: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, BEGIN CONSTRUCTION ON THE REMAINING SECTIONS OF PROPOSED -Y7A- AND -Y9- AS SHOWN ON SHEETS TMP-20 AND TMP-21.

STEP 6A: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON EXISTING -Y16- AND -Y17- IN THE LOCATIONS SHOWN ON SHEETS TMP-9, TMP-16, TMP-17, TMPXSC-I-6 AND TMPXSC-I-7.

STEP 6B: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ON -Y16- IN THE LOCATIONS SHOWN ON SHEETS TMP-9, TMP-17 AND TMPXSC-I-7 AND WEDGE EXISTING -Y16- UP TO THE PROPOSED ELEVATION IN THE LOCATIONS SHOWN ON SHEETS TMP-9, TMP-17 AND TMPXSC-I-7. REPLACE PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH WEDGING OPERATION.

STEP 6C: INSTALL TEMPORARY SHORING ALONG PROPOSED -Y16- IN THE LOCATIONS SHOWN ON SHEETS TMP-9, TMP-17 AND TMPXSC-I-7 AND BEGIN CONSTRUCTION ON PROPOSED -Y16-, -Y16RPA-, -Y17- AND -Y18- IN THE LOCATIONS SHOWN ON SHEETS TMP-9, TMP-16, TMP-17, TMPXSC-I-6 AND TMPXSC-I-7.

STEP 7: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, BEGIN CONSTRUCTION ON PROPOSED -Y20- AND THE -Y20- TEMPORARY PAVEMENT ALIGNMENT IN THE LOCATIONS SHOWN ON SHEETS TMP-10, TMP-18 AND TMPXSC-I-8.



TRANSPORTATION
MANAGEMENT PLAN
WRITTEN PHASING

PHASING

STEP 8A: CONSTRUCT PROPOSED -Y10- AND -Y11- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE LOCATIONS SHOWN ON SHEET TMP-11. AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y10- AND -Y11- IN THE PATTERNS SHOWN ON SHEET TMP-22.

STEP 8B: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL THE REMAINING TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS FOR THE -Y10- AND -Y11- TRAFFIC SHIFTS SHOWN ON SHEET TMP-22 AND SHIFT -Y10- AND -Y11- TRAFFIC TO THE PATTERNS SHOWN ON SHEET TMP-22. CONSTRUCT THE PROPOSED 'T' BULB OUT ON EXISTING CORRIGIDOR RD IN THE LOCATION SHOWN ON SHEET TMP-22.

PHASE II

STEP 1A: COMPLETE CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ON THE SECTIONS OF -L-, -RPB-, -RPC-, AND -RPD- THAT WILL BE REQUIRED FOR THE TRAFFIC SHIFT SHOWN ON SHEETS TMP-23, TMP-24 AND TMP-25 THRU TMP-27. AWAY FROM TRAFFIC, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON THE -L- LINE AND ALL AFFECTED -Y- LINES FOR THE UPCOMING TRAFFIC SHIFTS ON -L-, -Y2-, -Y3-, -Y5A- AND -Y5B- SHOWN ON SHEETS TMP-23, TMP-24 AND TMP-25 THRU TMP-27.

STEP 1B: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL THE REMAINING PAVEMENT MARKINGS ON THE -L- LINE AND ALL AFFECTED -Y- LINES FOR THE -L-, -Y2-, -Y3-, -Y5A- AND -Y5B- TRAFFIC SHIFTS SHOWN ON SHEETS TMP-23, TMP-24 AND TMP-25 THRU TMP-27. ACTIVATE THE TEMPORARY TRAFFIC SIGNALS AT THE -L-/-Y2- INTERSECTION, THE -L-/-RPC- INTERSECTION AND THE -L-/-RPB- INTERSECTION AND SHIFT -L-, -Y2-, -Y3-, ALL RAMPS, -Y5A- AND -Y5B- TRAFFIC TO THE PATTERN SHOWN ON SHEETS TMP-23, TMP-24 AND TMP-25 THRU TMP-27.

STEP 2: CONSTRUCT ALL ROADWAY IMPROVEMENTS FROM SHEETS TMP-23 THRU TMP-27 REQUIRED TO SHIFT -L- TRAFFIC INTO THE PROPOSED DIVERGING DIAMOND INTERCHANGE PATTERN SHOWN ON SHEETS TMP-28 THRU TMP-33 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. COMPLETE THE INSTALLATION OF ALL PROPOSED FINAL TRAFFIC SIGNALS AT THE -L-/-Y2- INTERSECTION, THE -L-/-RPC- INTERSECTION AND THE -L-/-RPB- INTERSECTION. WEDGE EXISTING -RPA- UP TO THE PROPOSED ELEVATION PRIOR TO BEGINNING CONSTRUCTION ON -L- IN THE SAME VICINITY AS -RPA-. (USE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15 WHEN CONSTRUCTION OPERATIONS MEET THE CRITERIA DESCRIBED IN GENERAL NOTE H ON SHEET TMP-1B)

STEP 3: AWAY FROM TRAFFIC, INSTALL AS MANY OF THE PAVEMENT MARKINGS AS POSSIBLE DESCRIBED ON SHEET TMP-30.

COMPLETE THE WORK REQUIRED OF PHASE II, STEPS 4 AND 5 IN 57 CONSECUTIVE HOURS BEGINNING AT 9:00PM ON A FRIDAY AND COMPLETING BY 6:00AM THE FOLLOWING MONDAY. -RPA-, -RPB-, -RPC- AND -RPD- MAY BE CLOSED TO TRAFFIC DURING THIS INTERMEDIATE CONTRACT TIME ONLY BETWEEN THE HOURS OF 9:00PM SATURDAY TO 10:00AM SUNDAY. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 4: PLACE -L- AND ALL FOUR RAMPS INTO THE TRAFFIC PATTERN SHOWN ON SHEET TMP-30 BY FOLLOWING THE GUIDANCE DESCRIBED ON SHEET TMP-30. COMPLETE ANY REMAINING CONSTRUCTION ALONG -L-, -Y2-, -Y3-, -RPA-, -RPB-, -RPC- AND -RPD- FOR THE PROPOSED DIVERGING DIAMOND INTERCHANGE SHOWN ON SHEETS TMP-28 THRU TMP-33. COMPLETE ANY REMAINING CONSTRUCTION ALONG THE PROPOSED RAMPS BY USING RAMP CLOSURES. USE THE APPLICABLE RAMP CLOSURE OFF SITE DETOUR SHOWN ON SHEETS TMP-2B THRU TMP-2E FOR RAMP CLOSURE OPERATIONS.

STEP 5: PLACE ANY REMAINING PAVEMENT MARKINGS AND MARKERS ALONG -L-, -Y2-, -Y3-, -RPA-, -RPB-, -RPC- AND -RPD- IN THE PATTERNS SHOWN ON SHEETS TMP-28 THRU TMP-33, ACTIVATE TEMPORARY TRAFFIC SIGNALS AT THE -L-/-Y2-, -L-/-RPA-, AND -L-/-RPC- INTERSECTIONS AND PLACE -L-, -Y2-, -Y3-, -RPA-, -RPB-, -RPC- AND -RPD- TRAFFIC IN THE DIVERGING DIAMOND INTERCHANGE TRAFFIC PATTERN SHOWN ON SHEETS TMP-28 THRU TMP-33.

STEP 6A: COMPLETE CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ON THE SECTIONS OF -L-, -Y6-, -Y6A-, -Y7-, -Y7A-, -Y7B- AND -DWY3- THAT WILL BE REQUIRED FOR THE TRAFFIC SHIFT SHOWN ON SHEETS TMP-34 THRU TMP-44. AWAY FROM TRAFFIC, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON THE -L- LINE AND ALL AFFECTED -Y- LINES FOR THE UPCOMING TRAFFIC SHIFTS ONTO -L-, -Y6-, -Y7- AND -Y7A- SHOWN ON SHEETS TMP-34 THRU TMP-44.

STEP 6B: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL THE REMAINING PAVEMENT MARKINGS ON THE -L- LINE AND ALL AFFECTED -Y- LINES FOR THE -L-, -Y6-, -Y7- AND -Y7A- TRAFFIC SHIFTS SHOWN ON SHEETS TMP-34 THRU TMP-44, ACTIVATE THE TEMPORARY TRAFFIC SIGNALS AT THE -L-/-Y7- INTERSECTION AND THE -Y5C-/-Y7- INTERSECTION AND SHIFT -L-, -Y6-, -Y6A-, -Y7-, -Y7A-, -Y7B- AND -DWY3- TRAFFIC TO THE PATTERN SHOWN ON SHEETS TMP-34 THRU TMP-44.

STEP 6C: BEGIN CONSTRUCTION ON THE SECTIONS OF ROADWAYS SHOWN ON SHEETS TMP-34, TMP-36, TMP-37 TMP-38, TMP-39, TMP-40, TMP-41, TMP-44 AND TMPXSC-IIB-1 AND ALL PROPOSED FINAL TRAFFIC SIGNAL INSTALLATIONS.

STEP 7A: COMPLETE CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ON THE SECTIONS OF -Y16-, -Y17- AND -Y18- THAT WILL BE REQUIRED FOR THE TRAFFIC SHIFT SHOWN ON SHEETS TMP-45, TMP-47 AND TMP-48. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ON -Y16- IN THE LOCATIONS SHOWN ON SHEET TMP-48 AND TMPXSC-IIC-2. INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y16-, -Y17- AND -Y18- IN THE LOCATIONS SHOWN ON SHEETS TMP-45, TMP-47 AND TMP-48 AND SHIFT -Y16-, -Y17- AND -Y18- TRAFFIC TO THE PATTERN SHOWN ON SHEETS TMP-45, TMP-47 AND TMP-48.

STEP 7B: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ON -Y16- IN THE LOCATIONS SHOWN ON SHEETS TMP-47 AND TMPXSC-IIC-1 AND BEGIN CONSTRUCTION ON REMAINING SECTIONS OF THE PROPOSED -L- BRIDGES OVER -Y16- AND THE REMAINING SECTIONS OF -Y16- AS SHOWN ON SHEETS TMP-45, TMP-47, TMP-48 TMPXSC-IIC-1 AND TMPXSC-IIC-2. PLACE -Y16- TRAFFIC ON THE OFFSITE DETOUR ROUTE SHOWN ON SHEET TMP-2H DURING GIRDER HANGING OPERATIONS FOR THE PROPOSED -L- BRIDGE OVER -Y16-.

STEP 7C: COMPLETE CONSTRUCTION OF THE PROPOSED -L- BRIDGE OVER -Y26-. COMPLETE CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ON -Y26-. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y26- AND SHIFT -Y26- TRAFFIC TO THE PATTERN SHOWN ON SHEETS TMP-45 AND TMP-47. SIMULTANEOUSLY CLOSE THE RXR CROSSING FROM -Y16- TO -Y26-.

STEP 8A: COMPLETE CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ON THE SECTIONS OF -Y20- AND THE -Y20- TEMPORARY PAVEMENT ALIGNMENT THAT WILL BE REQUIRED FOR THE TRAFFIC SHIFT SHOWN ON SHEETS TMP-46, TMP-49 AND TMP-50. AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y20- AND THE -Y20- TEMPORARY PAVEMENT ALIGNMENT FOR THE UPCOMING TRAFFIC SHIFT SHOWN ON SHEETS TMP-46, TMP-49 AND TMP-50.

STEP 8B: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL THE REMAINING TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS FOR THE -Y20- TRAFFIC SHIFT SHOWN ON SHEETS TMP-46, TMP-49 AND TMP-50 AND SHIFT -Y20- TRAFFIC TO THE PATTERNS SHOWN ON SHEETS TMP-46, TMP-49 AND TMP-50.

STEP 8C: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, BEGIN CONSTRUCTION ON THE SECTIONS OF PROPOSED -Y20- SHOWN ON SHEETS TMP-46, TMP-49, TMP-50 AND TMPXSC-IIC-3.

PHASE III

STEP 1A: COMPLETE CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ON THE SECTIONS OF -L- AND -Y6A- THAT WILL BE REQUIRED FOR THE TRAFFIC SHIFTS SHOWN ON SHEETS TMP-51 THRU TMP-54. INSTALL THE PROPOSED TEMPORARY TRAFFIC SIGNAL AT THE -L-/-Y5A- INTERSECTION. AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- AND -Y6A- FOR THE UPCOMING TRAFFIC SHIFTS SHOWN ON SHEETS TMP-51 THRU TMP-54.

STEP 1B: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL THE REMAINING TEMPORARY PAINT PAVEMENT MARKINGS ON -L-, -Y5A- AND -Y6A- AS SHOWN ON SHEETS TMP-51 THRU TMP-54 AND SHIFT -L-, -Y5A- AND -Y6A- TRAFFIC TO THE PATTERNS SHOWN ON SHEETS TMP-51 THRU TMP-54.

STEP 1C: BEGIN CONSTRUCTION ON -L- IN THE LOCATIONS SHOWN ON SHEETS TMP-51 AND TMP-52.

COMPLETE THE WORK REQUIRED OF PHASE III, STEP 1D IN 7 CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 1D: CLOSE -Y6A- USING TYPE III BARRICADES IN THE LOCATIONS SHOWN ON SHEETS TMP-52 AND TMP-53 AND INSTALL THE PROPOSED 42" RCP AT STA. 17+20+/- AND COMPLETE CONSTRUCTION ON -Y6A- FROM STA. 13+30+/- -Y6A- TO STA. 18+00+/- -Y6A- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON SHEETS TMP-52 AND TMP-53. INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -Y6A- IN THE LOCATIONS SHOWN ON SHEETS TMP-52 AND TMP-53 AND REOPEN -Y6A- TO THRU TRAFFIC.

STEP 2A: COMPLETE CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ON THE SECTIONS OF -L-, -Y19- AND -Y20- THAT WILL BE REQUIRED FOR THE TRAFFIC SHIFT SHOWN ON SHEETS TMP-55 AND TMP-56. AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L-, -Y19- AND -Y20- FOR THE UPCOMING TRAFFIC SHIFTS SHOWN ON SHEETS TMP-55 AND TMP-56.

STEP 2B: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, INSTALL THE REMAINING TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS FOR THE -L-, -Y19- AND -Y20- TRAFFIC SHIFTS SHOWN ON SHEETS TMP-55 AND TMP-56 AND SHIFT -L-, -Y19- AND -Y20- TRAFFIC TO THE PATTERNS SHOWN ON SHEETS TMP-55 AND TMP-56.

STEP 2C: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, BEGIN CONSTRUCTION ON -Y20- IN THE LOCATIONS SHOWN ON SHEETS TMP-55, TMP-56 AND TMPXSC-III-1.

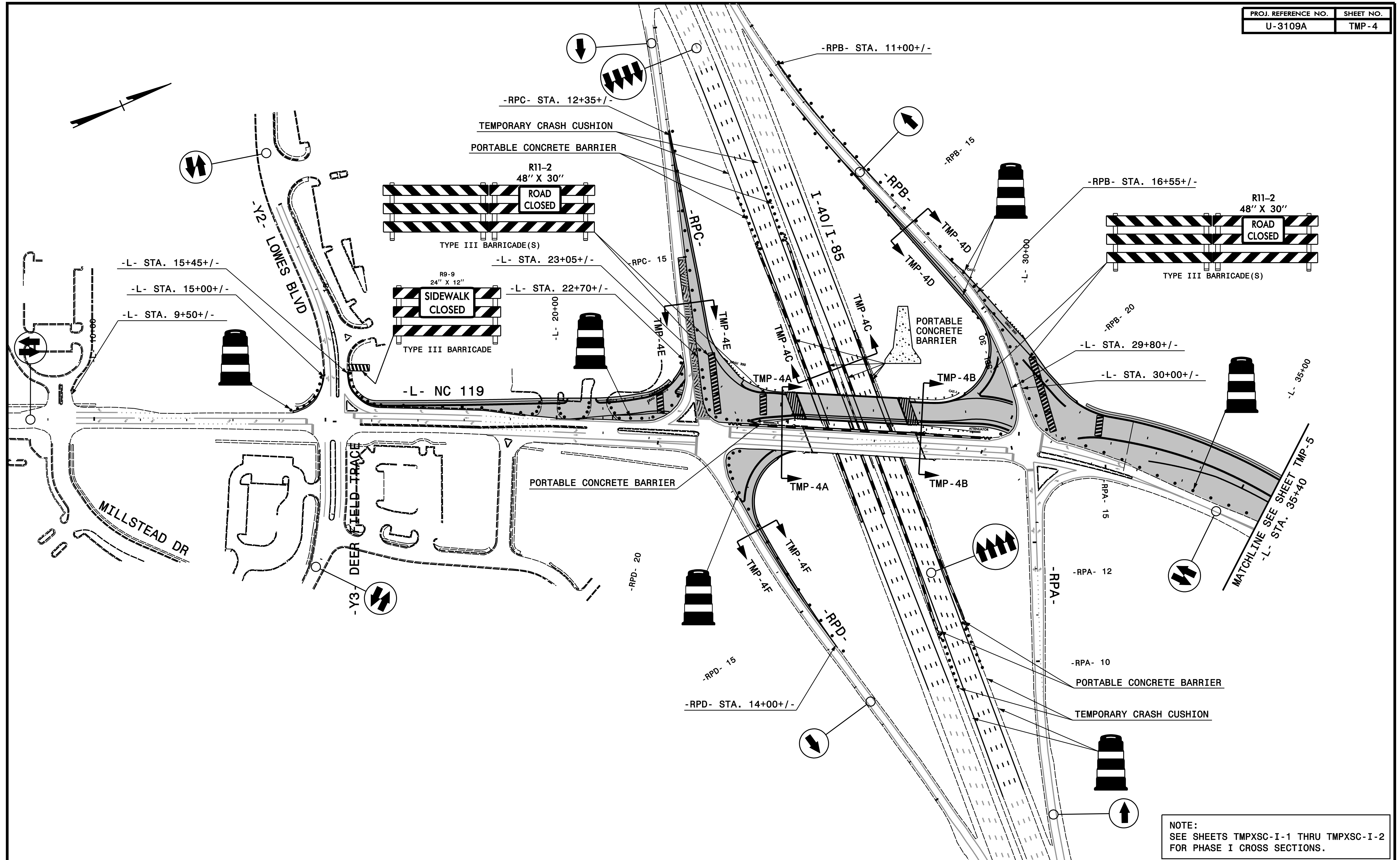
STEP 3: COMPLETE CONSTRUCTION ON ALL REMAINING ROADWAYS WITHIN THE PROJECT LIMITS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND ALL FINAL TRAFFIC SIGNAL INSTALLATIONS.

AWAY FROM TRAFFIC, PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS ON THE RIGHT SIDE OF -L- FROM STA. 55+00+/- -L- TO STA. 71+00+/- -L- AND ON BOTH SIDES OF -L- FROM STA. 73+00+/- -L- TO STA. 188+00+/- -L-.

INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS IN THE FINAL TRAFFIC PATTERN ON -L- FROM THE -Y5A- INTERSECTION THRU THE -Y7- INTERSECTION AND ON -Y20-. ADJUST THE -Y- LINE STOP BAR LOCATIONS TO MATCH THE REVISED -L- LINE MARKINGS AND PLACE ALL TRAFFIC IN THE FINAL PATTERN. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OR 3 OF 15, PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS ON ALL ROADWAYS THROUGHOUT THE PROJECT LIMITS AND PLACE ALL TRAFFIC IN THE FINAL TRAFFIC PATTERN.

STEP 4: REMOVE ALL TRAFFIC CONTROL DEVICES.

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NOTE:
SEE SHEETS TMPXSC-I-1 THRU TMPXSC-I-2
FOR PHASE I CROSS SECTIONS.

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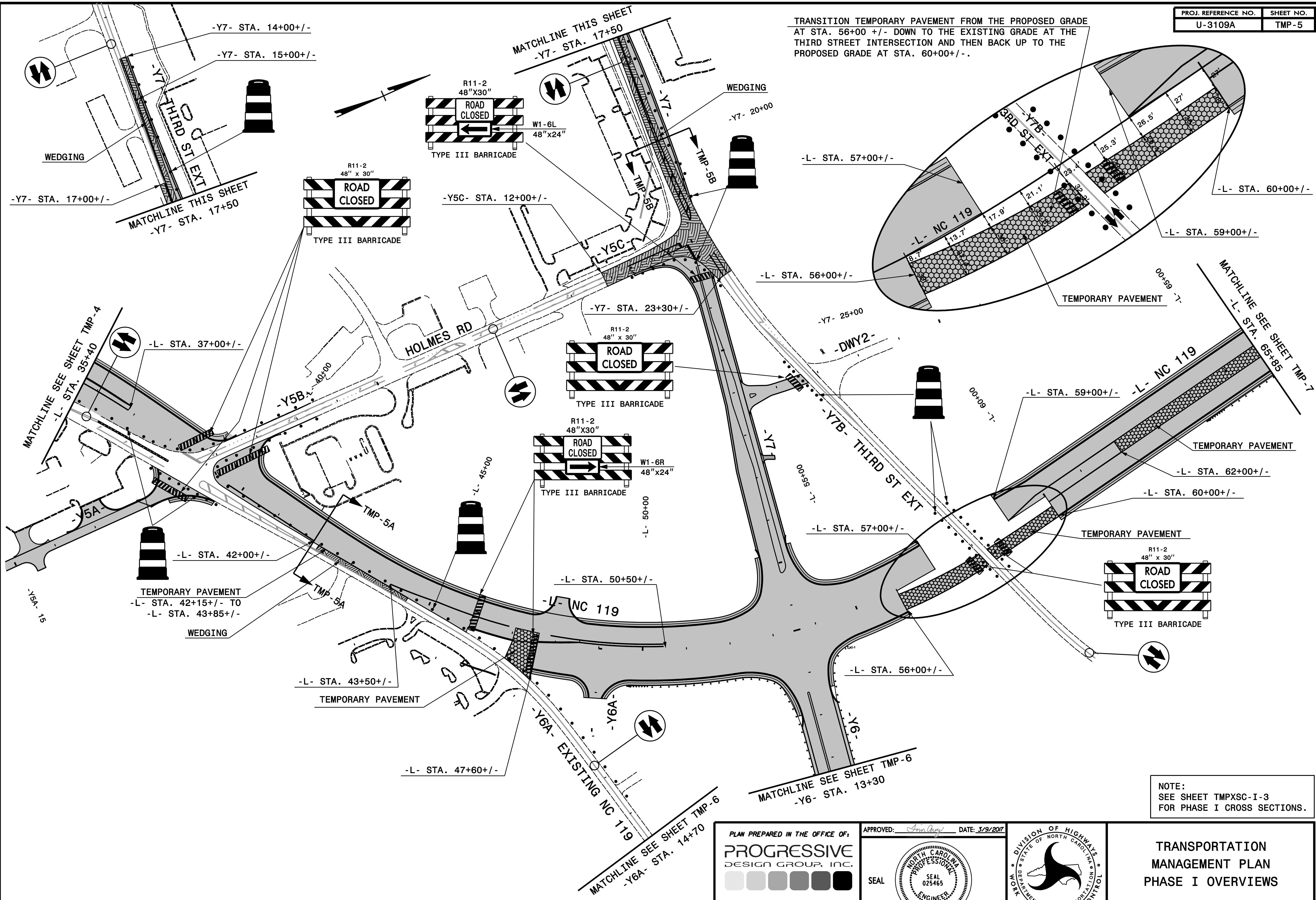
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PHASE I OVERVIEWS**



TRANSITION TEMPORARY PAVEMENT FROM THE PROPOSED GRADE AT STA. 56+00 +/- DOWN TO THE EXISTING GRADE AT THE THIRD STREET INTERSECTION AND THEN BACK UP TO THE PROPOSED GRADE AT STA. 60+00+/-.

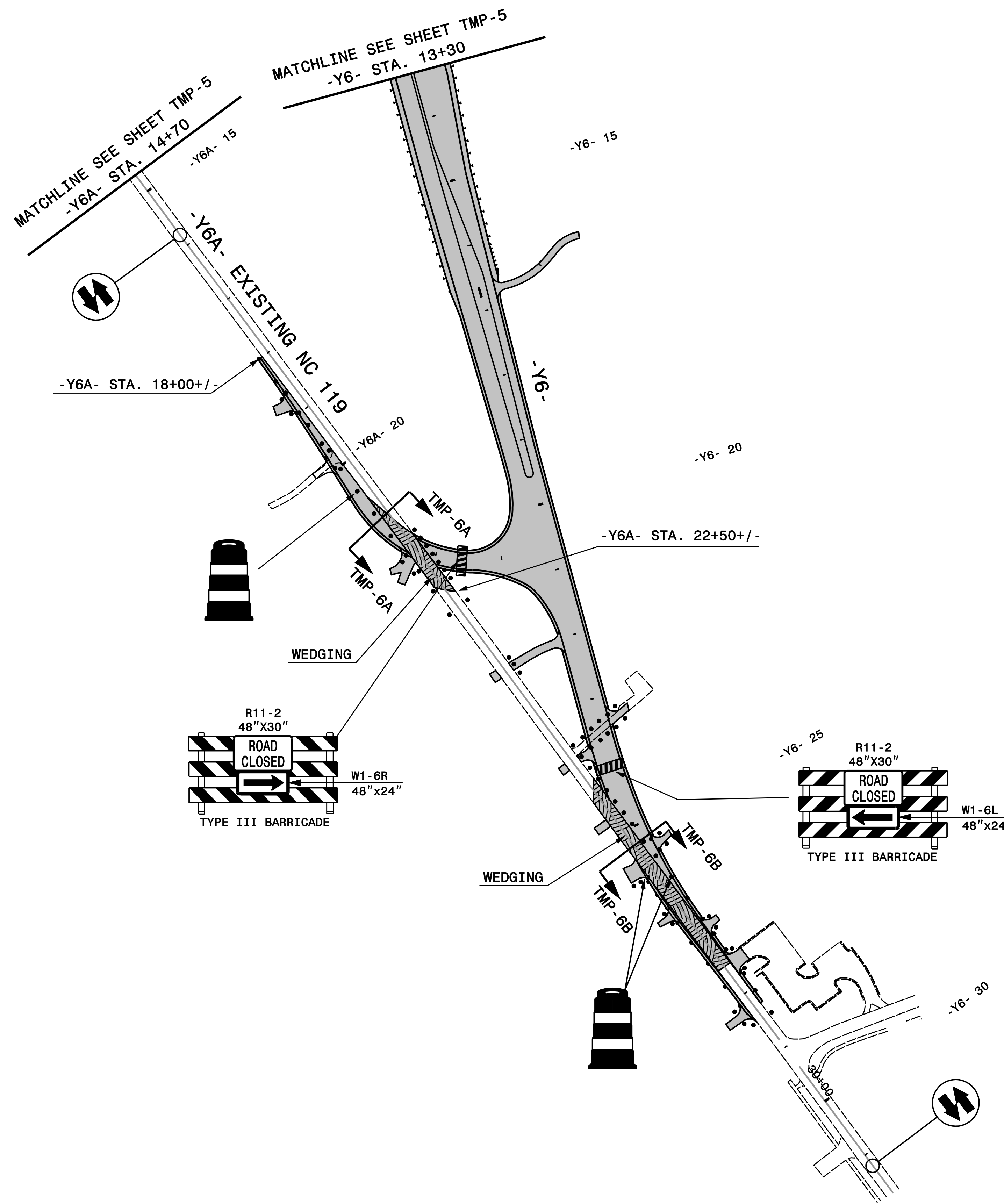
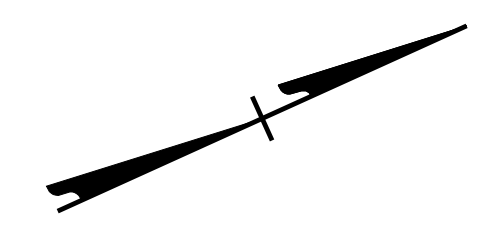
NOTE:
SEE SHEET TMPXSC-I-3
FOR PHASE I CROSS SECTIONS.

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**TRANSPORTATION MANAGEMENT PLAN
PHASE I OVERVIEWS**



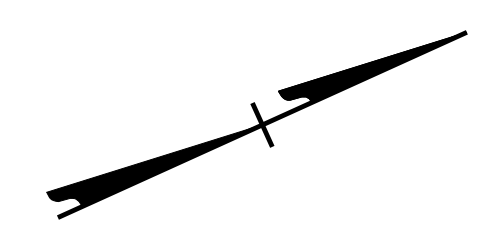
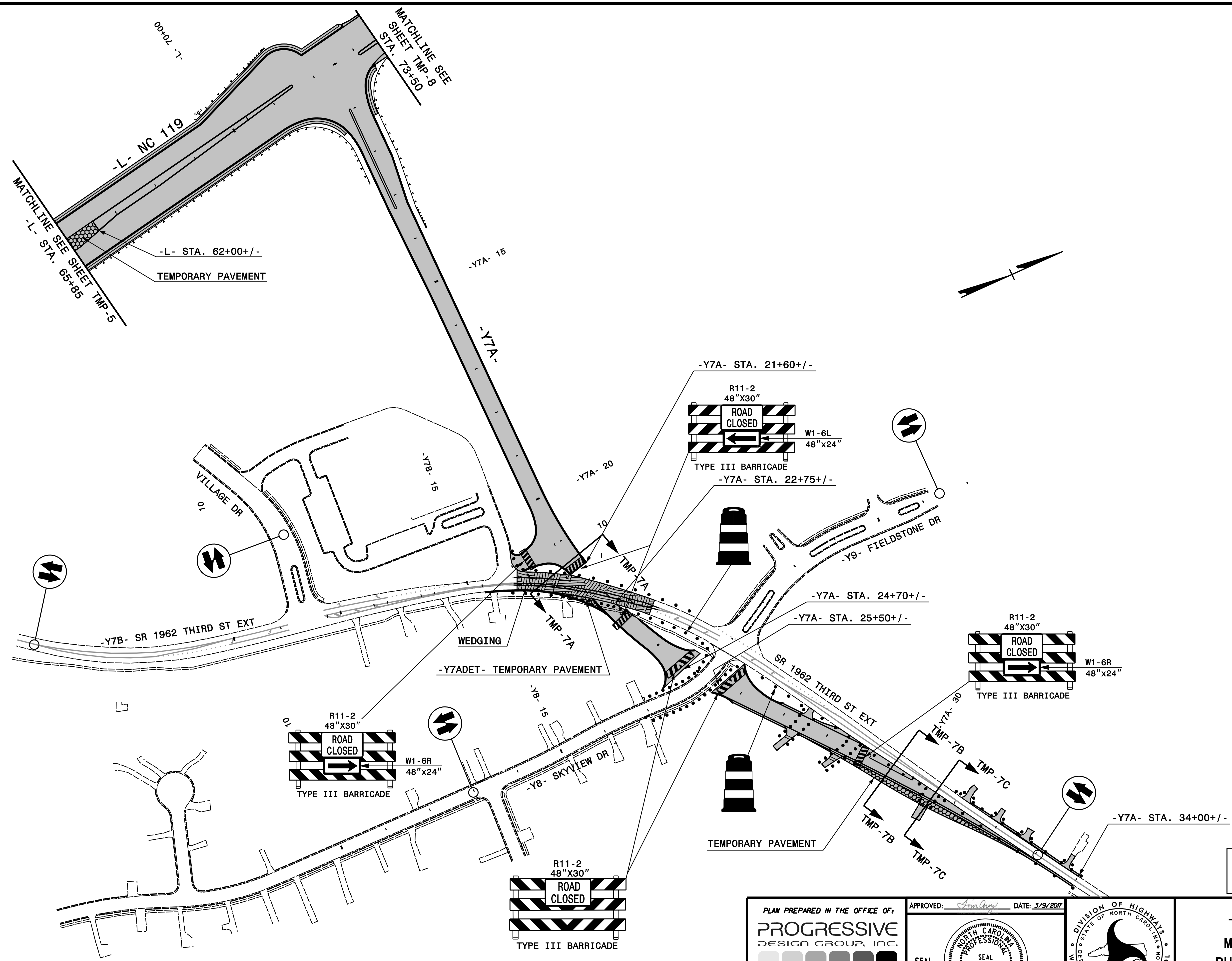
NOTE:
SEE SHEET TMPXSC-I-4
FOR PHASE I CROSS SECTIONS.

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NOTE:
SEE SHEET TMPXSC-I-5
FOR PHASE I CROSS SECTIONS.

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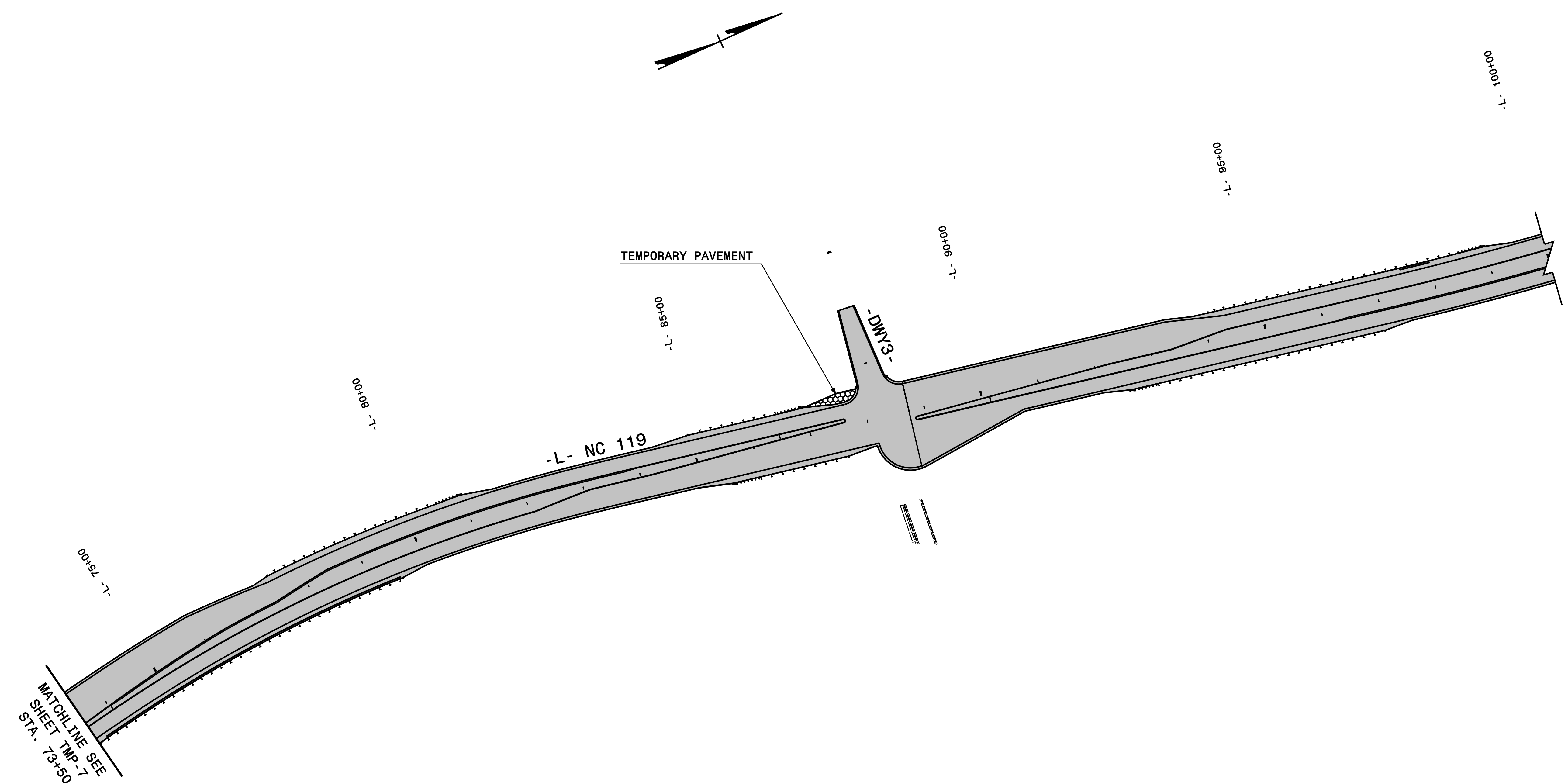
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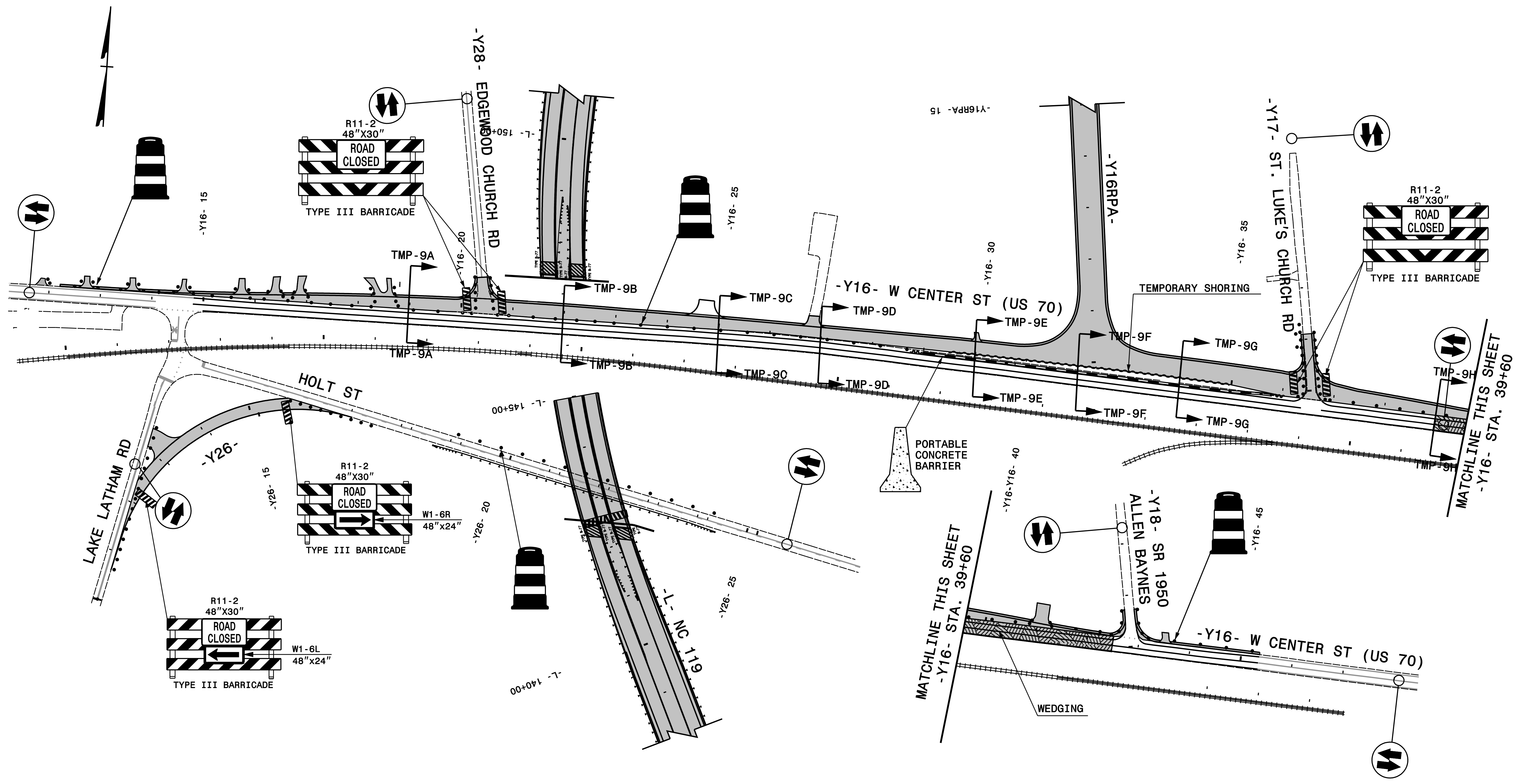


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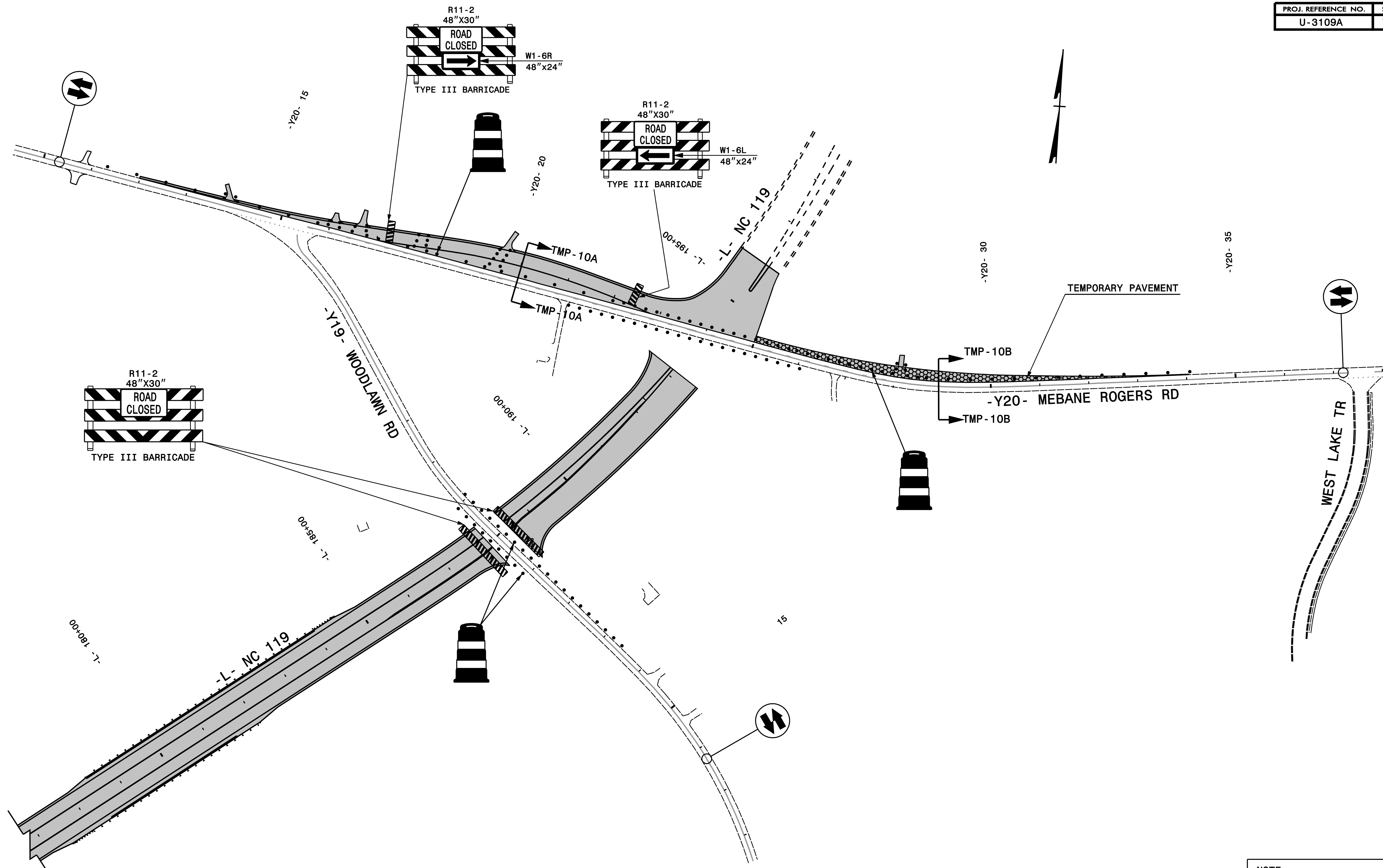
NOTE:
SEE SHEETS TMPXSC-I-6 THRU TMPXSC-I-7
FOR PHASE I CROSS SECTIONS.

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NOTE:
SEE SHEET TMPXSC-I-8
FOR PHASE I CROSS SECTIONS.

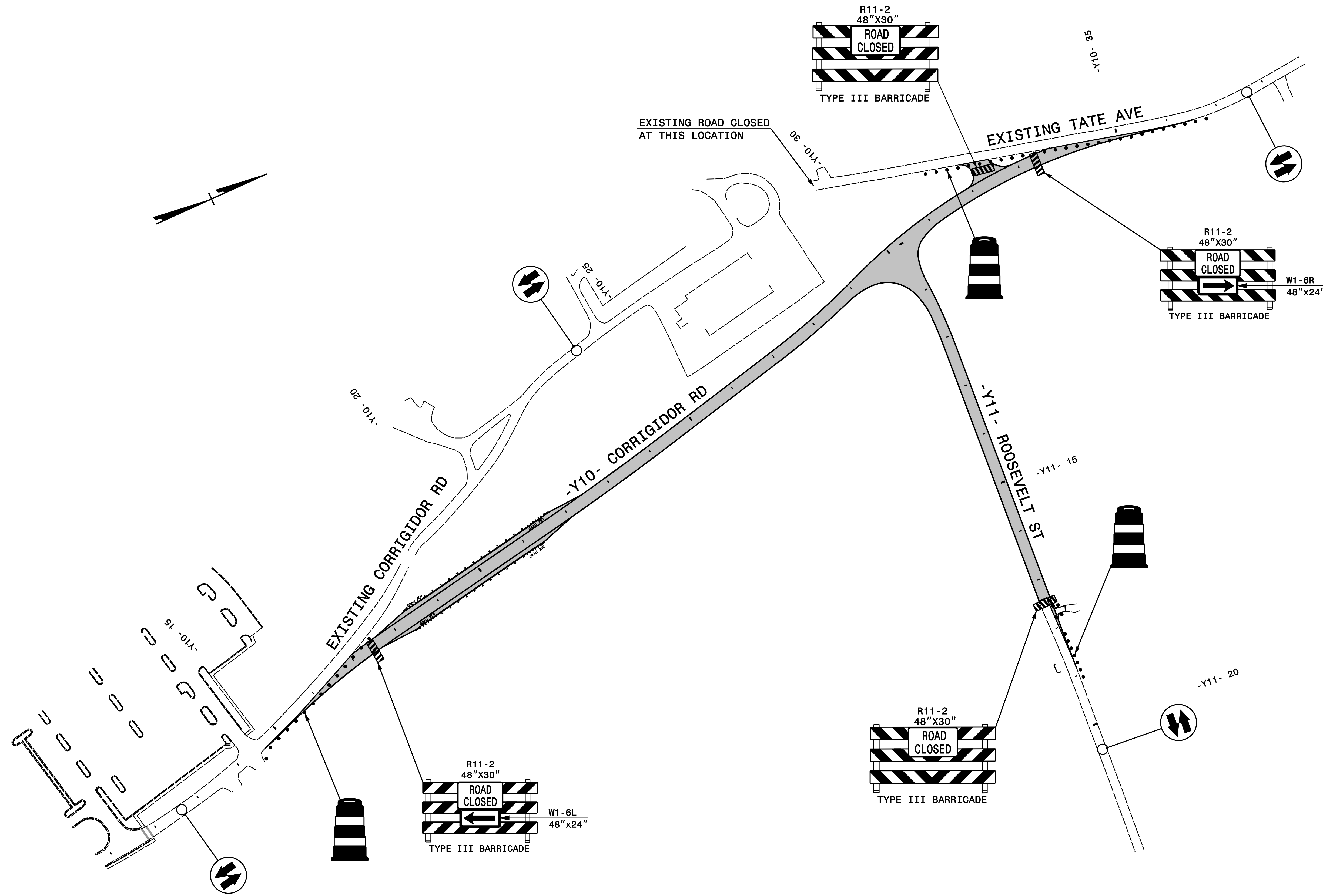
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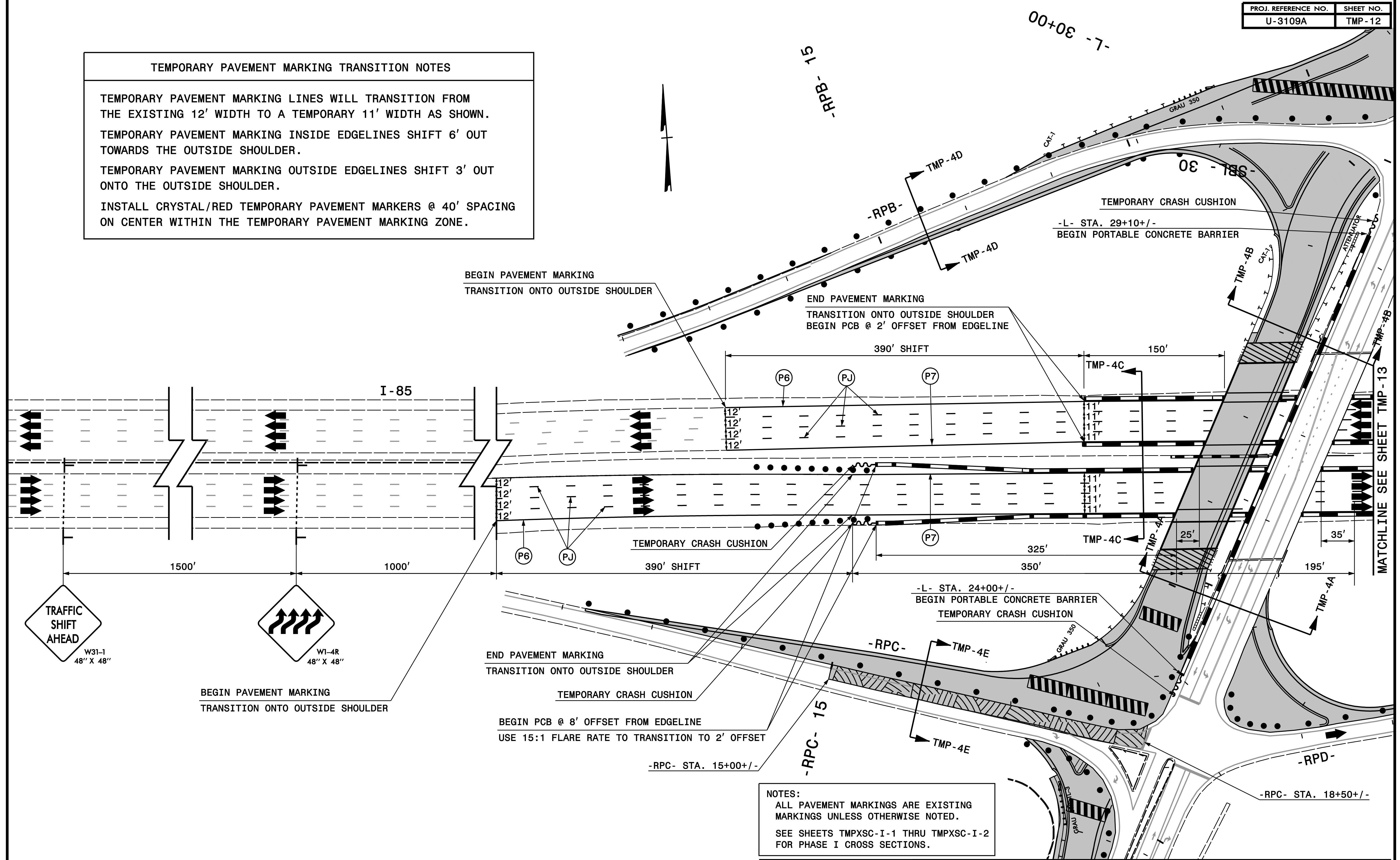
TEMPORARY PAVEMENT MARKING TRANSITION NOTES

TEMPORARY PAVEMENT MARKING LINES WILL TRANSITION FROM THE EXISTING 12' WIDTH TO A TEMPORARY 11' WIDTH AS SHOWN.

TEMPORARY PAVEMENT MARKING INSIDE EDGELINES SHIFT 6' OUT TOWARDS THE OUTSIDE SHOULDER.

TEMPORARY PAVEMENT MARKING OUTSIDE EDGELINES SHIFT 3' OUT ONTO THE OUTSIDE SHOULDER.

INSTALL CRYSTAL/RED TEMPORARY PAVEMENT MARKERS @ 40' SPACING ON CENTER WITHIN THE TEMPORARY PAVEMENT MARKING ZONE.



NOTES:
 ALL PAVEMENT MARKINGS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED.
 SEE SHEETS TMPXSC-I-1 THRU TMPXSC-I-2 FOR PHASE I CROSS SECTIONS.

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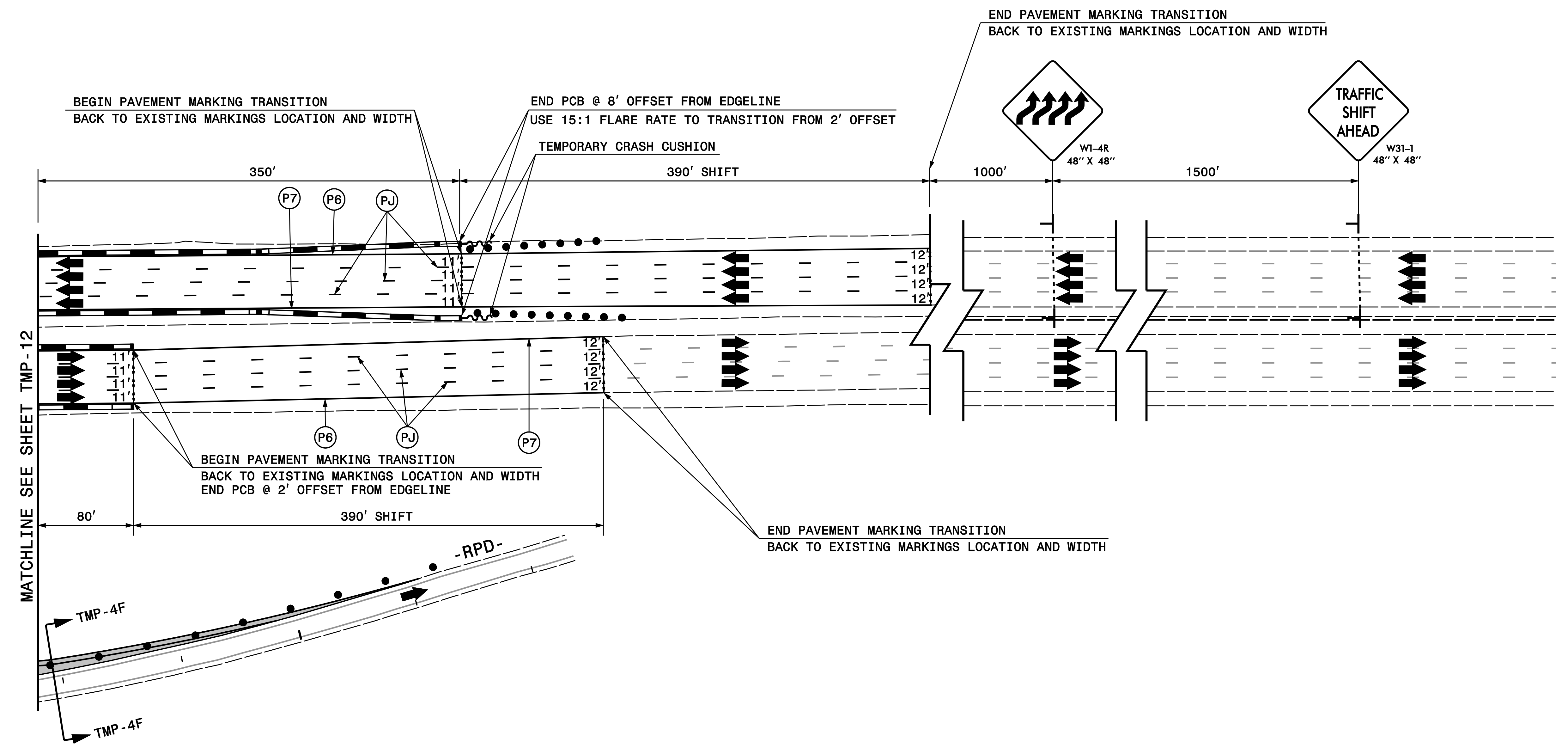
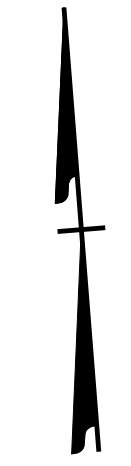
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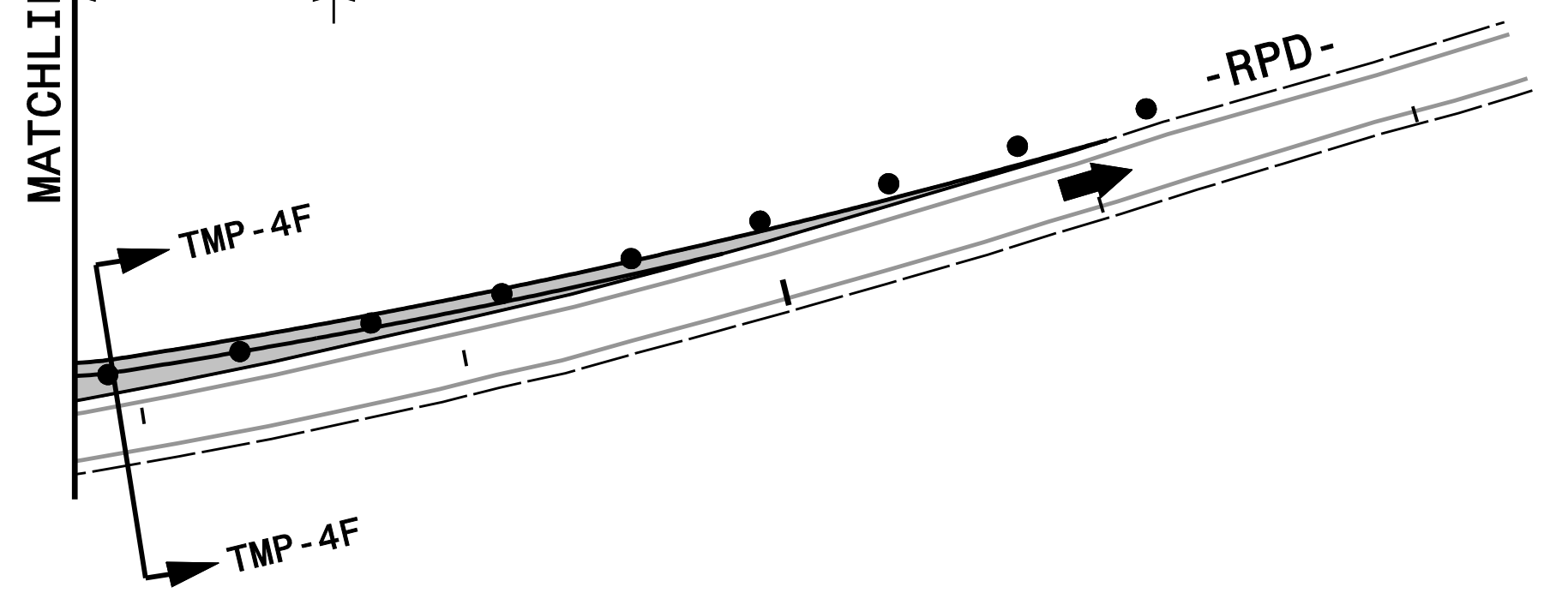
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 MANAGEMENT PLAN
 PHASE I DETAILS**

MATCHLINE SEE SHEET TMP-13



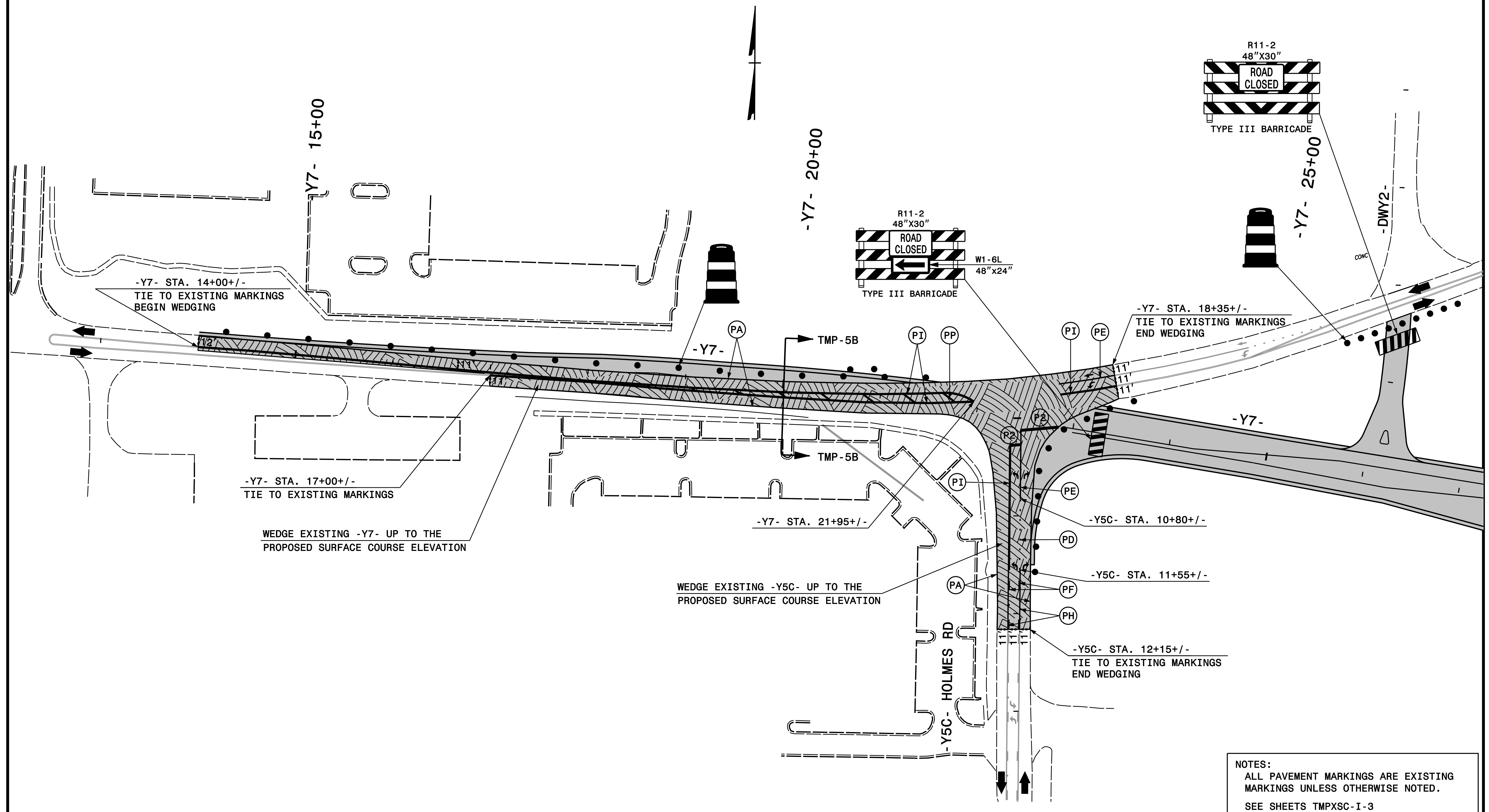
MATCHLINE SEE SHEET TMP-12



-RPD- 15

NOTES:
 ALL PAVEMENT MARKINGS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED.
 SEE SHEETS TMPXSC-I-1 THRU TMPXSC-I-9 FOR PHASE I CROSS SECTIONS.

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NOTES:
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 SEE SHEETS TMPXSC-I-3 FOR PHASE I CROSS SECTIONS.

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**TRANSPORTATION MANAGEMENT PLAN
 PHASE I DETAILS**

EXTEND PROPOSED 15" RCP WITH TEMPORARY 15" RCP. GRADE TEMPORARY OPEN CHANNEL TO DRAIN TO THE EXISTING DROP INLET LEFT OF STA. 25+75+/- -Y7A-. DO NOT INSTALL THE PROPOSED CATCH BASIN AT STA. 20+75+/- -Y7A- OR THE PROPOSED CURB AND GUTTER ALONG LEFT SIDE OF -Y7A- FROM 25+75+/- -Y7A- FORWARD UNTIL LATER PHASE

TEMPORARY 15" RCP EXTENSION
TEMPORARY OPEN CHANNEL
-Y7A- STA. 21+60+/-

EXTEND PROPOSED 15" RCP WITH TEMPORARY 15" RCP ON BOTH ENDS. GRADE TEMPORARY OPEN CHANNEL TO DRAIN TO THE EXISTING DROP INLET LEFT OF STA. 25+50+/- -Y7A-.

TEMPORARY OPEN CHANNEL
-Y7A- STA. 23+50+/-

CONSTRUCT A TEMPORARY OPEN CHANNEL FROM THE 15" RCP TO THE EXISTING DROP INLET AS SHOWN

-Y7A- STA. 25+50+/-
INSTALL A TEMPORARY 15" RCP INLET PIPE INTO THE PROPOSED CATCH BASIN.
-Y7A- STA. 28+10+/-
TIE TO EXISTING MARKINGS

INSTALL PROPOSED 42" RCP TO THE CENTERLINE OF EXISTING -Y7A- EASTBOUND TRAVEL LANE

-Y7A- STA. 30+60+/-
TIE TO EXISTING MARKINGS

-Y7A- STA. 34+00+/-

-Y7A- STA. 33+00+/-
END TEMPORARY PAVEMENT WIDENING

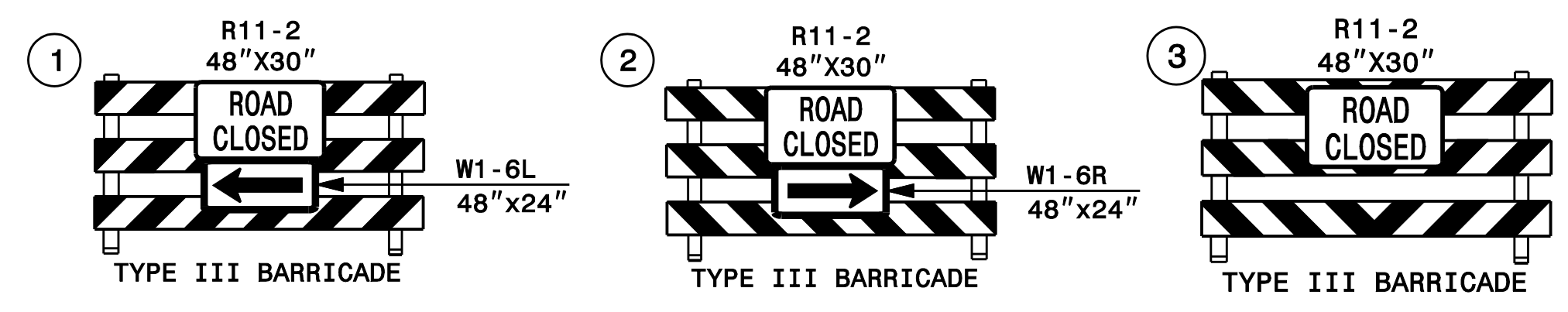
TEMPORARY 15" RCP EXTENSION
INSTALL THE PROPOSED 15" RCP TO THE LOCATIONS SHOWN

-Y7A- STA. 27+50+/-
BEGIN TEMPORARY PAVEMENT WIDENING WIDEN THE RIGHT SIDE OF PROPOSED -Y7A- WITH TEMPORARY PAVEMENT AT THE SAME ELEVATION AND THE SAME CROSS SLOPE AS PROPOSED -Y7A-.

WEDGE IN THE SUPER ELEVATION FOR THE PROPOSED -Y7ADET- ALIGNMENT. REPLACE THE EXISTING PAVEMENT MARKINGS WITH TEMPORARY PAINT PAVEMENT MARKINGS BY THE END OF EACH CONSTRUCTION PERIOD

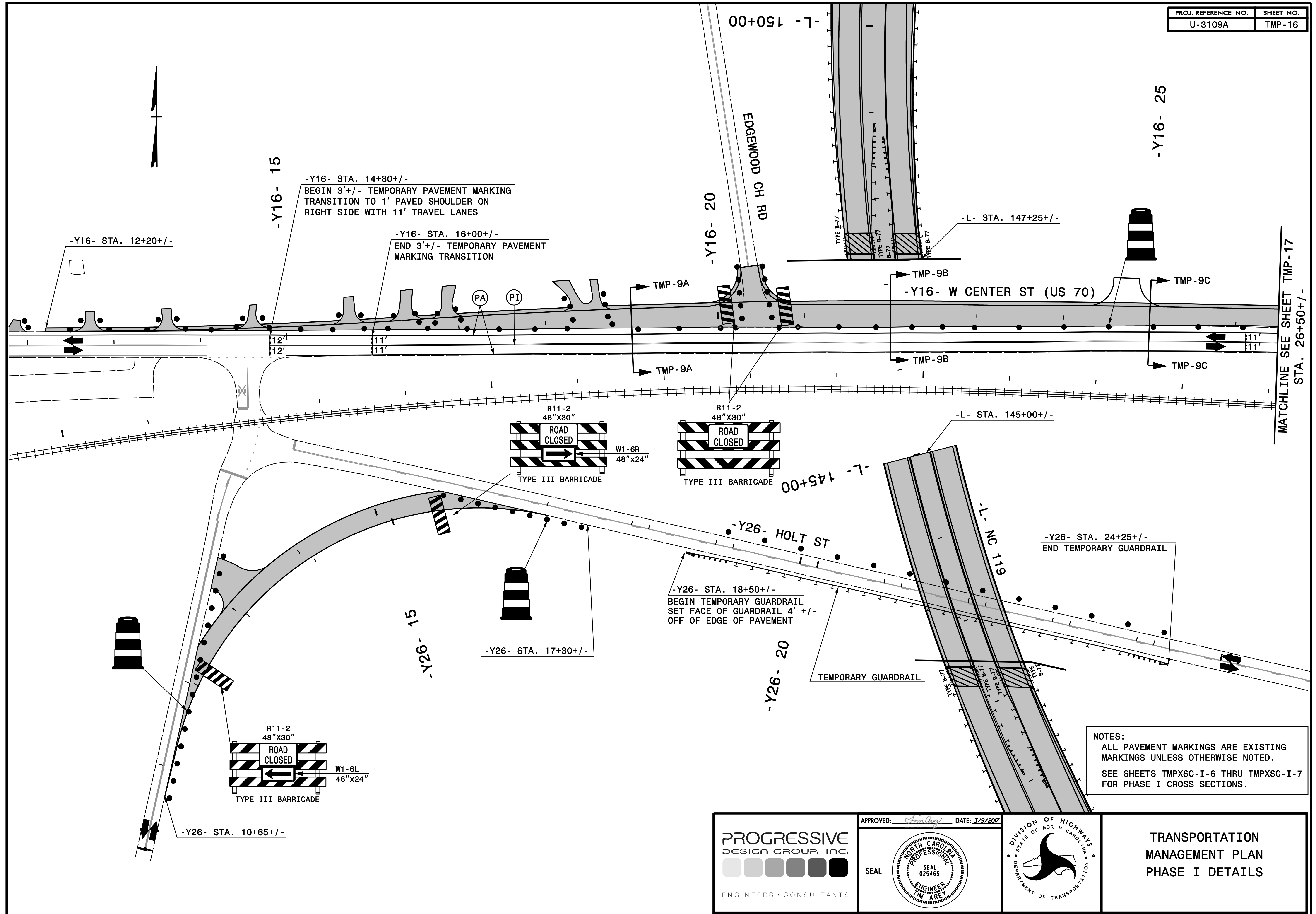
INSTALL A SHORT SECTION OF THE PROPOSED 15" RCP FROM THE PROPOSED DROP INLET AND TEMPORARILY PLUG.

EXTEND EXISTING 36" RCP WITH TEMPORARY 36" RCP



NOTES:
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 SEE SHEETS TMPXSC-I-6 THRU TMPXSC-I-7 FOR PHASE I CROSS SECTIONS.

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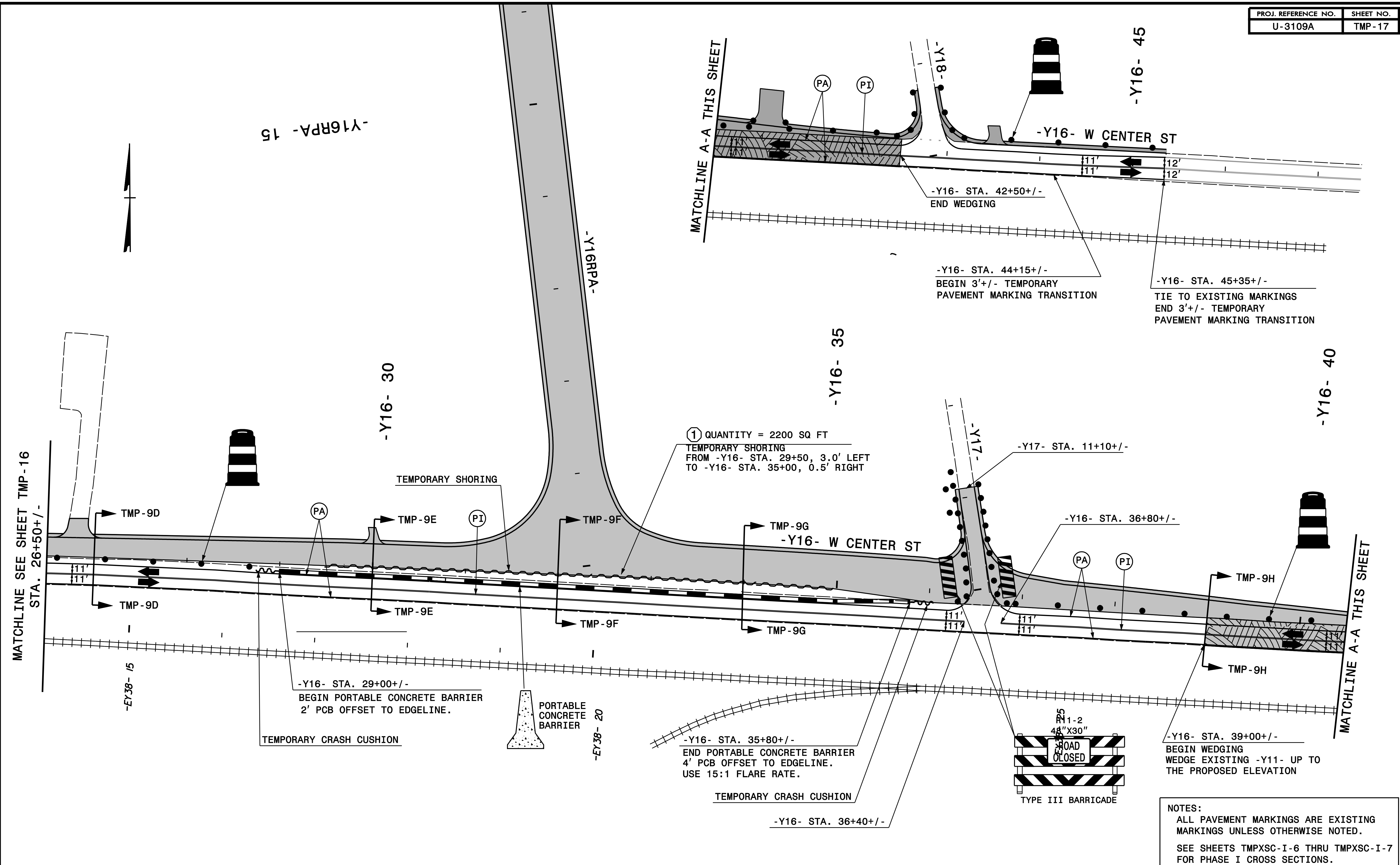
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 SEE SHEETS TMPXSC-I-6 THRU TMPXSC-I-7 FOR PHASE I CROSS SECTIONS.

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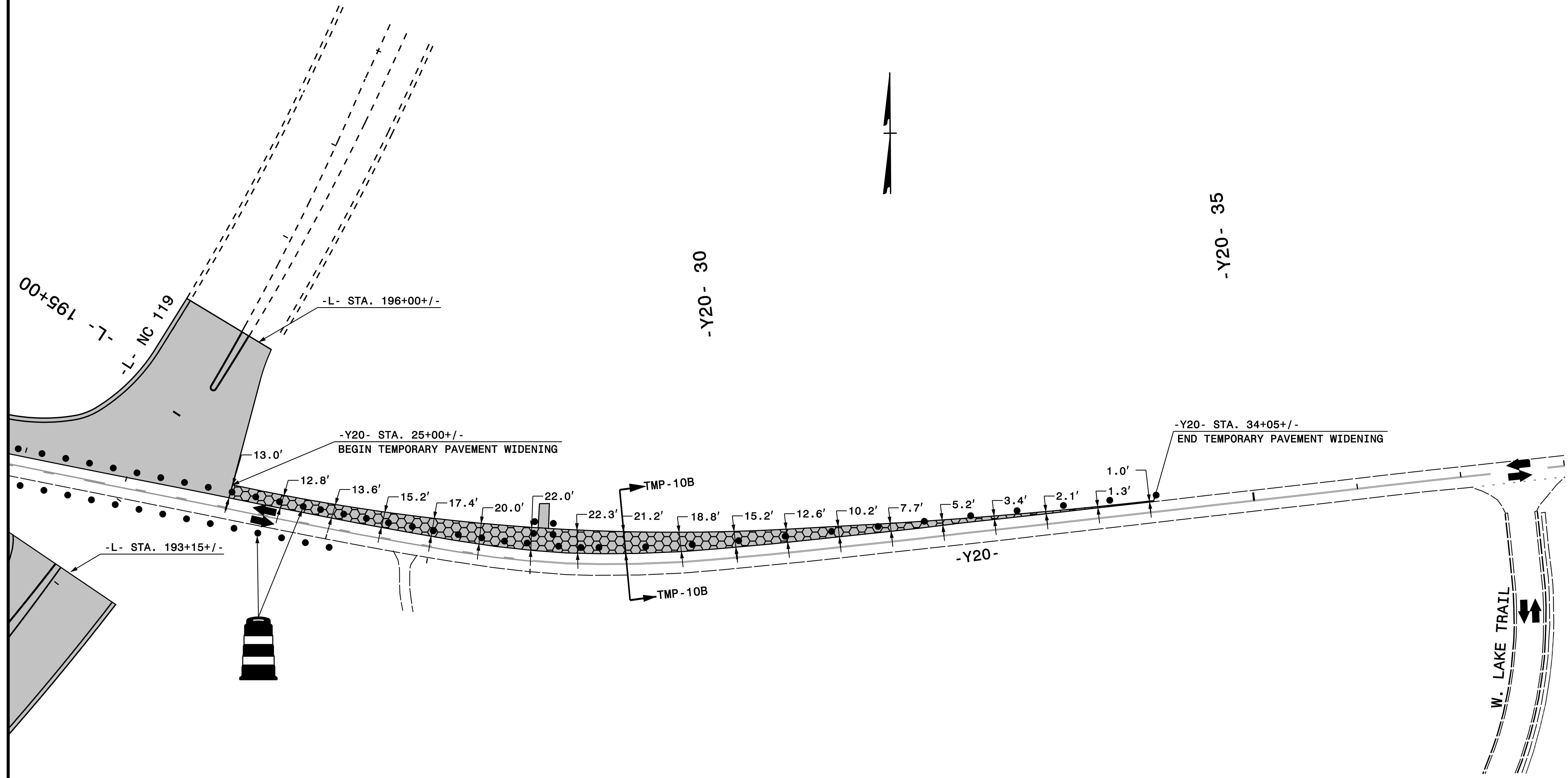
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NOTES:
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 MARKINGS UNLESS OTHERWISE NOTED.
 SEE SHEETS TMPXSC-I-8
 FOR PHASE I CROSS SECTIONS.

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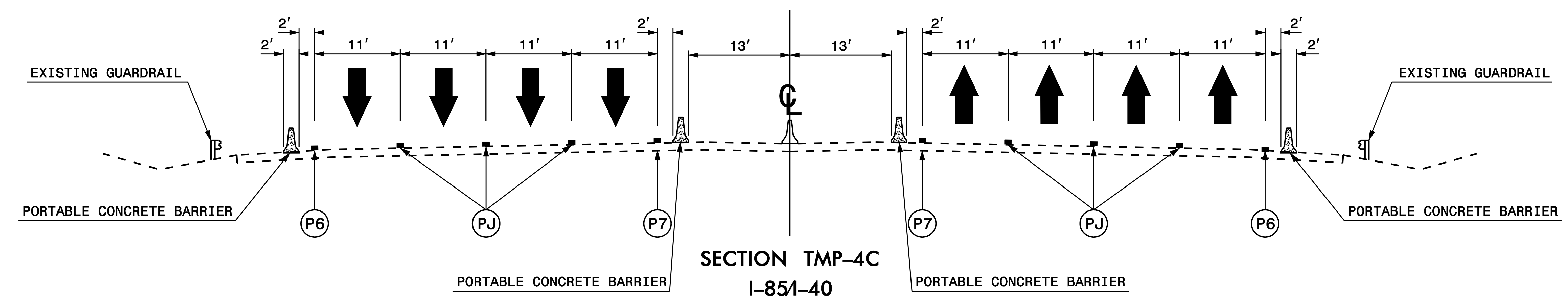
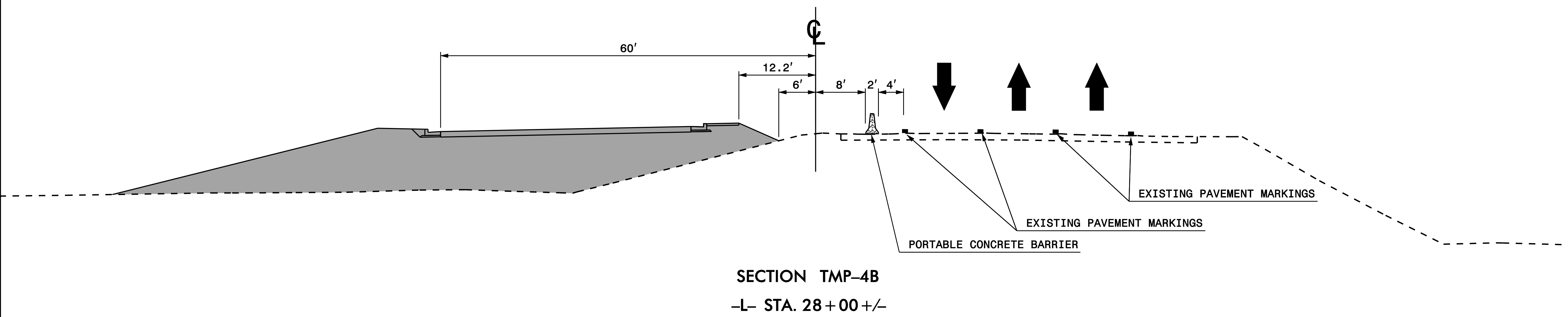
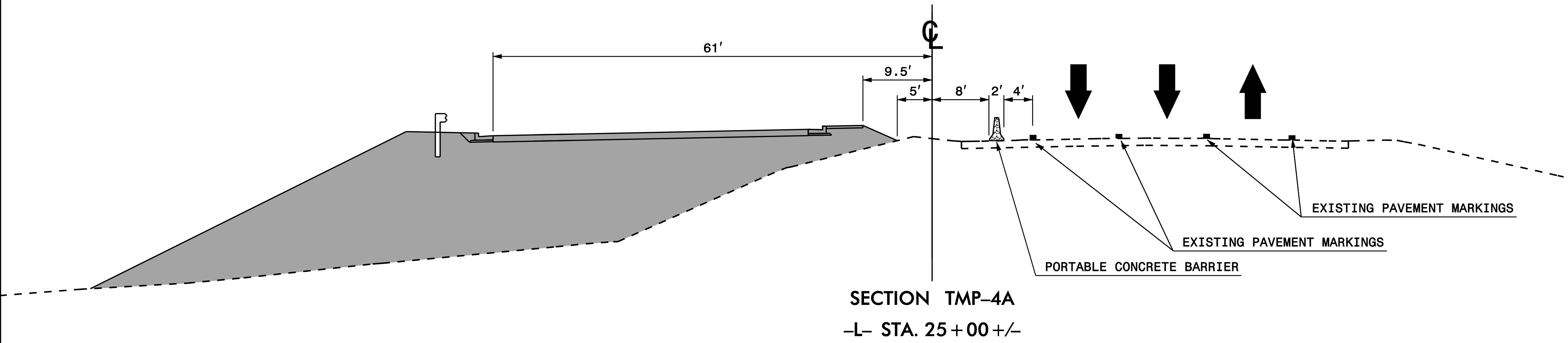
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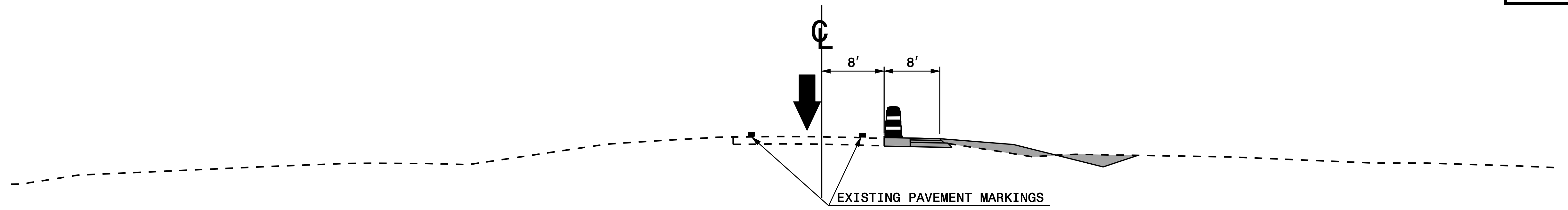
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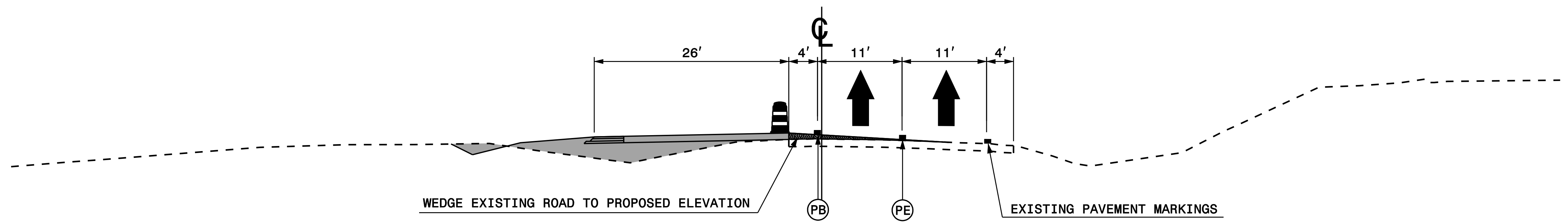
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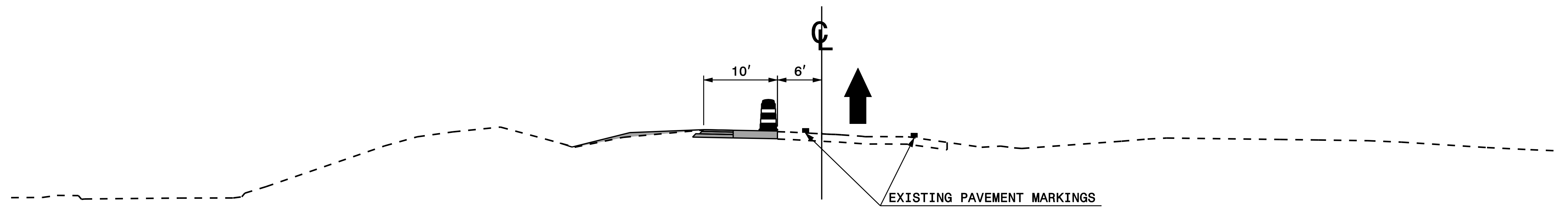
<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>[Signature]</i> DATE: 3/9/2017</p> <p>SEAL</p> <p>NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465 TAM ARE</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN CROSS SECTIONS PHASE I</p>
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SECTION TMP-4D
-RPB- STA. 15 + 50 +/-

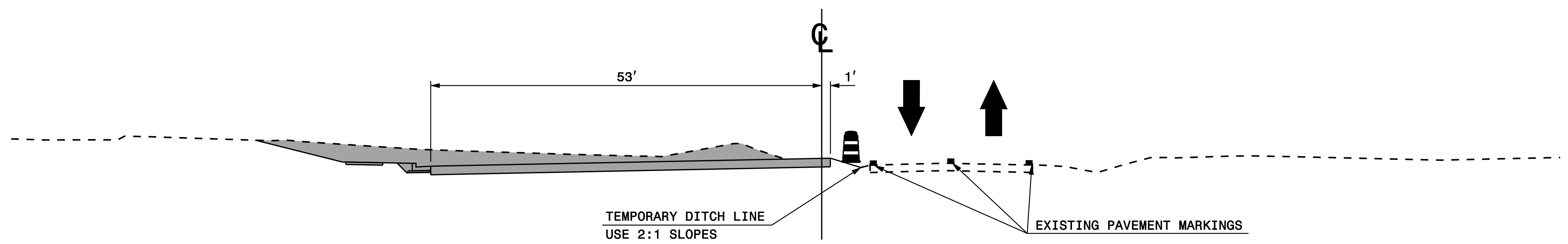


SECTION TMP-4E
-RPC- STA. 16 + 00 +/-



SECTION TMP-4F
-RPD- STA. 17 + 00 +/-

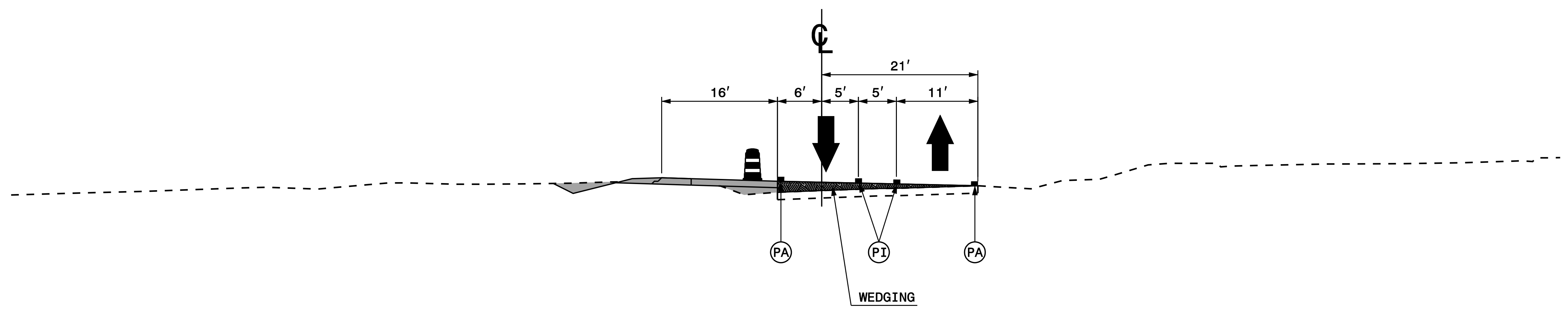
<p>PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Jan Gray</i> DATE: 3/9/2017</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN CROSS SECTIONS PHASE I</p>
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TEMPORARY DITCH LINE
USE 2:1 SLOPES

EXISTING PAVEMENT MARKINGS

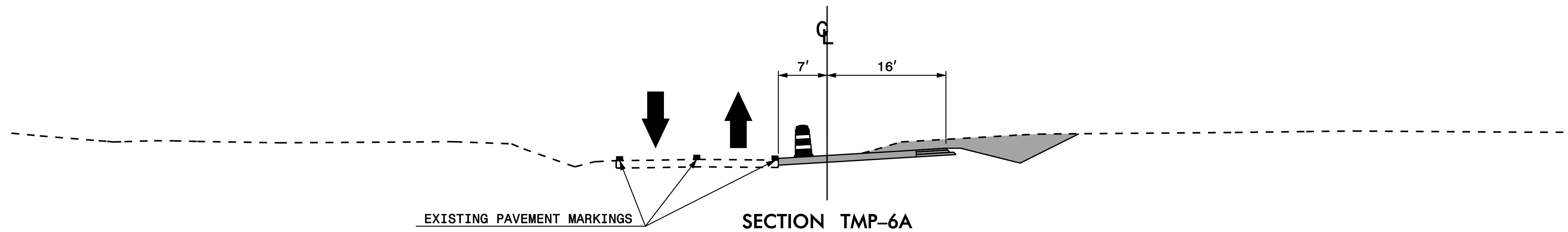
SECTION TMP-5A
-L- STA. 42 + 00 +/-



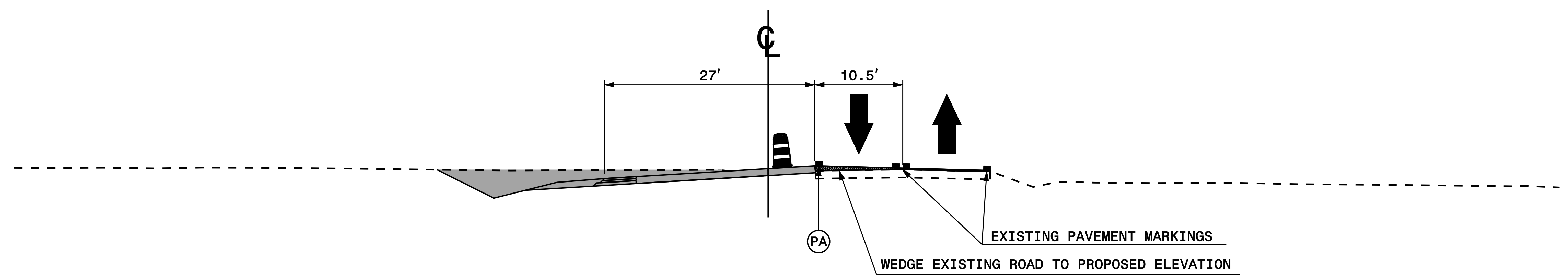
WEDGING

SECTION TMP-5B
-Y7- STA. 20 + 00 +/-



<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>[Signature]</i> DATE: 3/9/2017</p> <p>SEAL</p> <p>NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465 TAM ARE</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN CROSS SECTIONS PHASE I</p>
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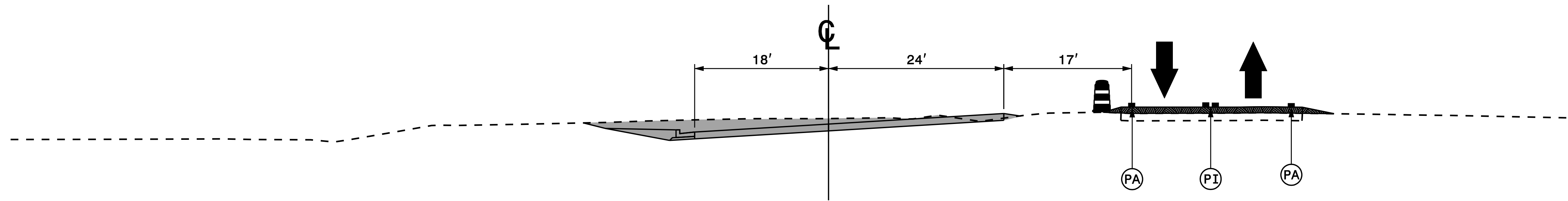


SECTION TMP-6A
-Y6A- STA. 21+00+/-

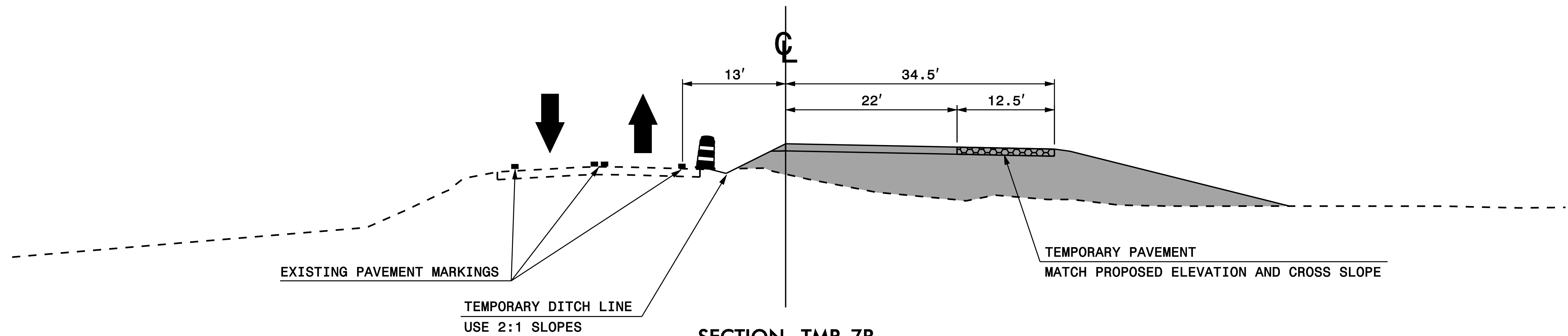


SECTION TMP-6B
-Y6- STA. 25+00+/-

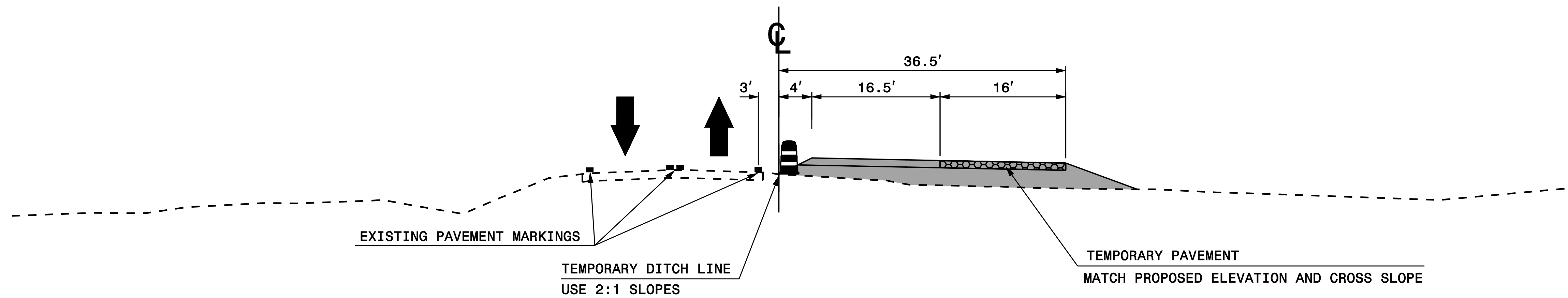
<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Jim Gray</i> DATE: 3/9/2017</p> <p>SEAL</p> 		<p>TRANSPORTATION MANAGEMENT PLAN CROSS SECTIONS PHASE I</p>
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SECTION TMP-7A
-Y7A- STA. 21+50+/-



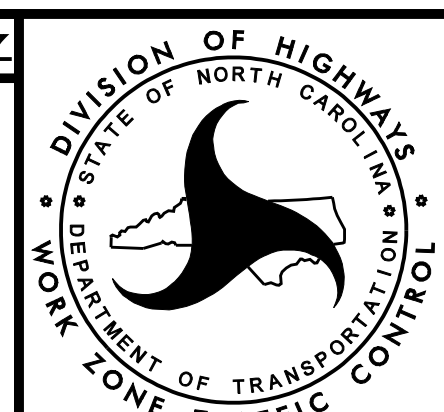
SECTION TMP-7B
-Y7A- STA. 29+50+/-



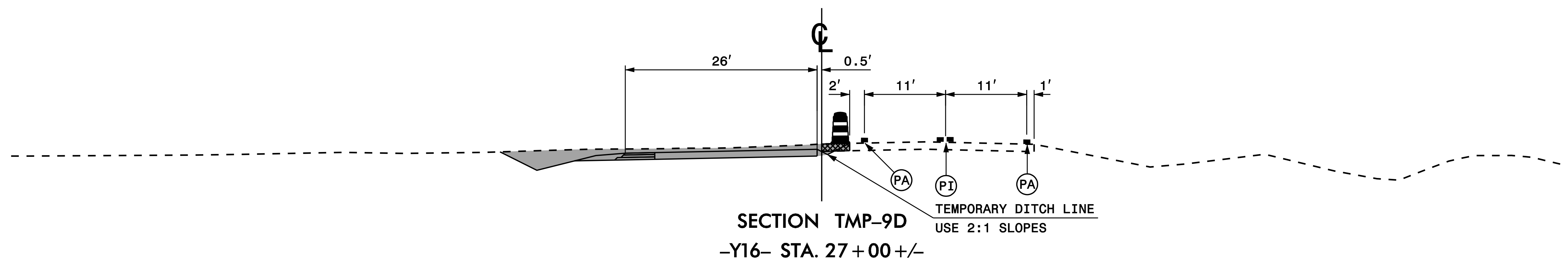
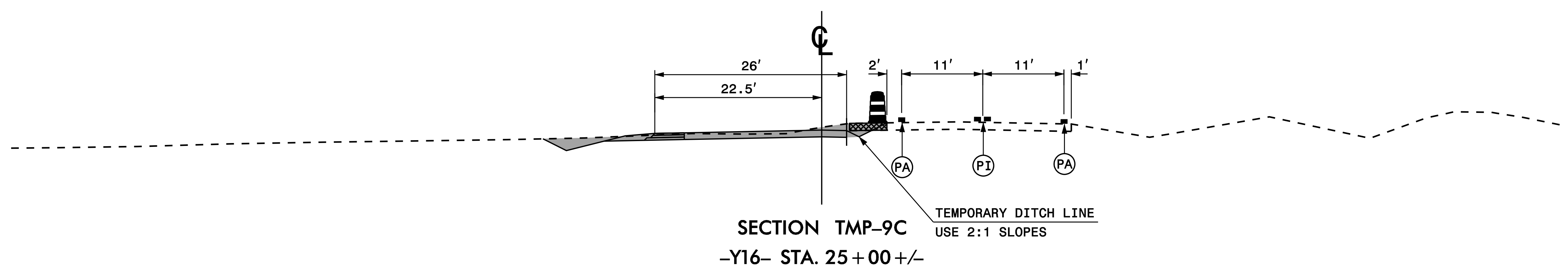
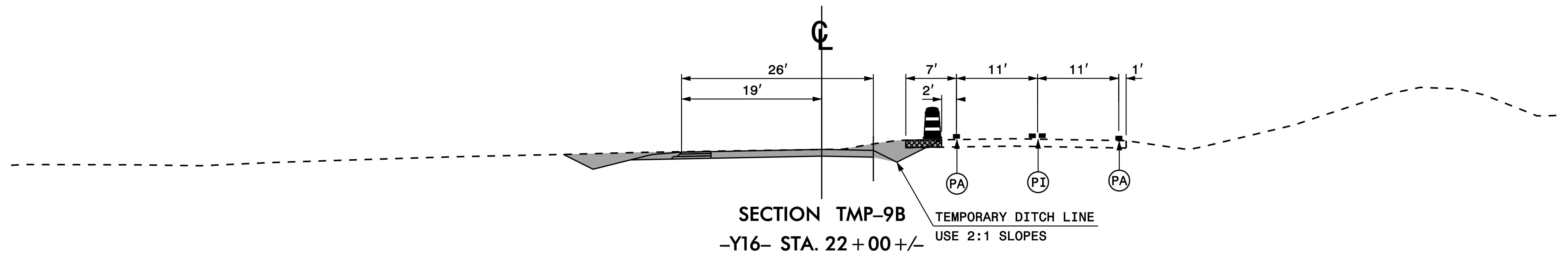
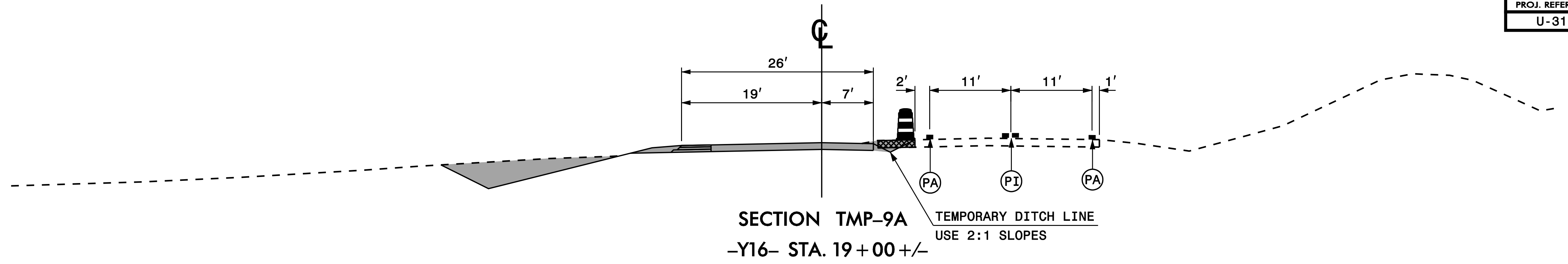
SECTION TMP-7C
-Y7A- STA. 30+50+/-

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DESIGN GROUP, INC.
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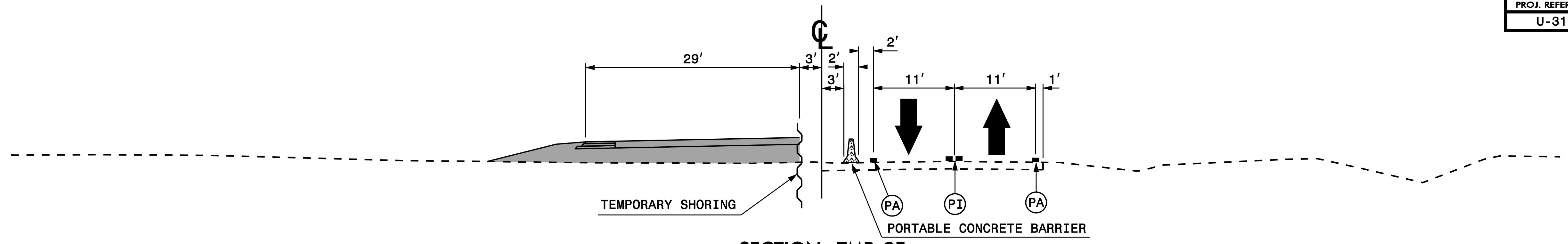
APPROVED: *Ann Gray* DATE: 3/9/2017
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465 TAM ARE



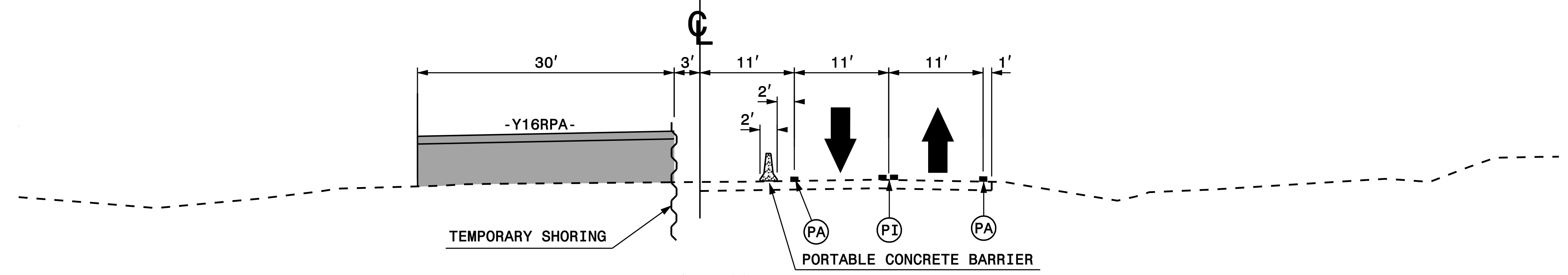
TRANSPORTATION
MANAGEMENT PLAN
CROSS SECTIONS
PHASE I



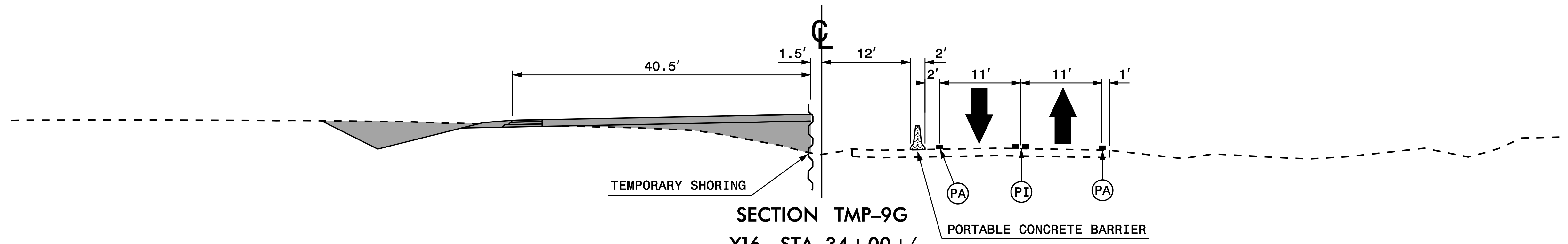
<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Jan Day</i> DATE: 3/9/2017</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN CROSS SECTIONS PHASE I</p>
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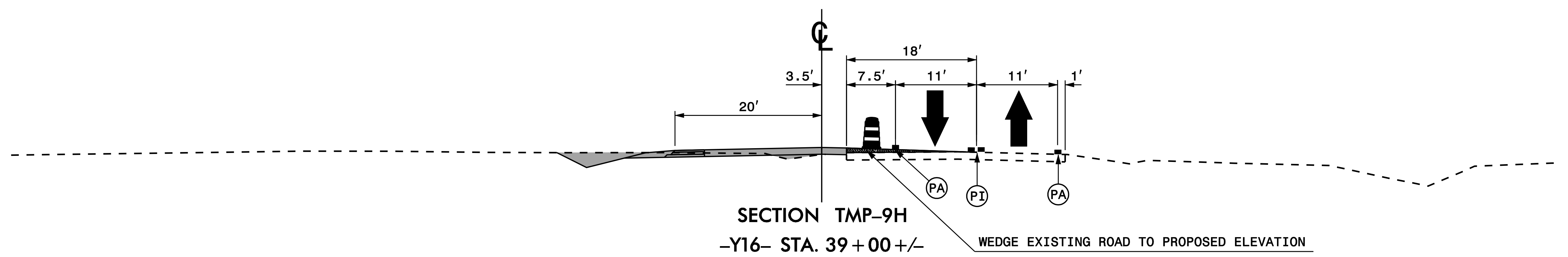
SECTION TMP-9E
-Y16- STA. 30+00+/-





SECTION TMP-9F
-Y16- STA. 32+00+/-

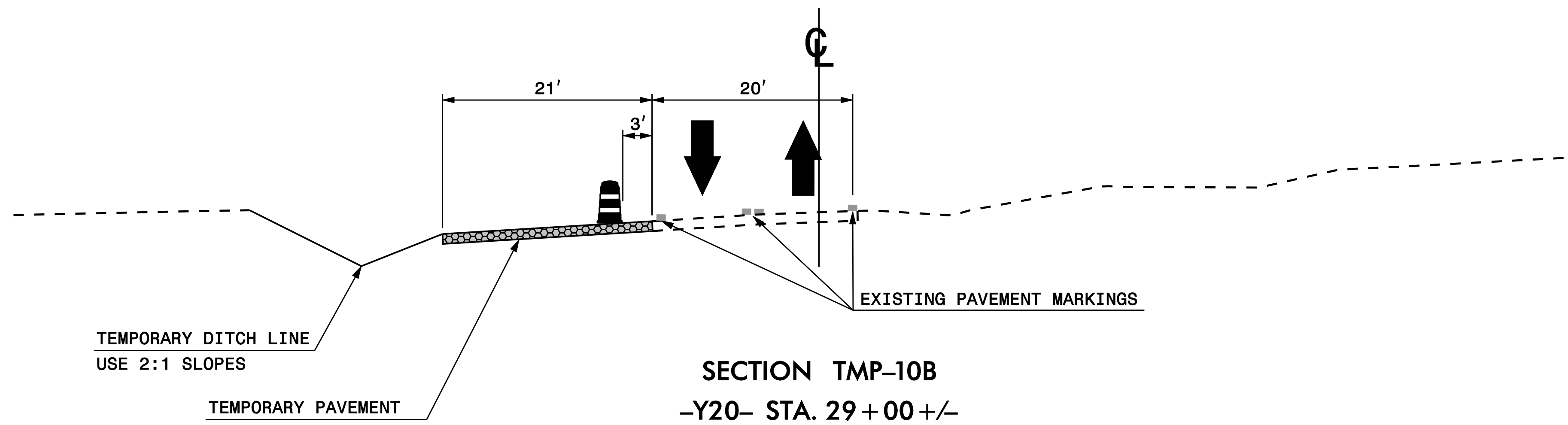
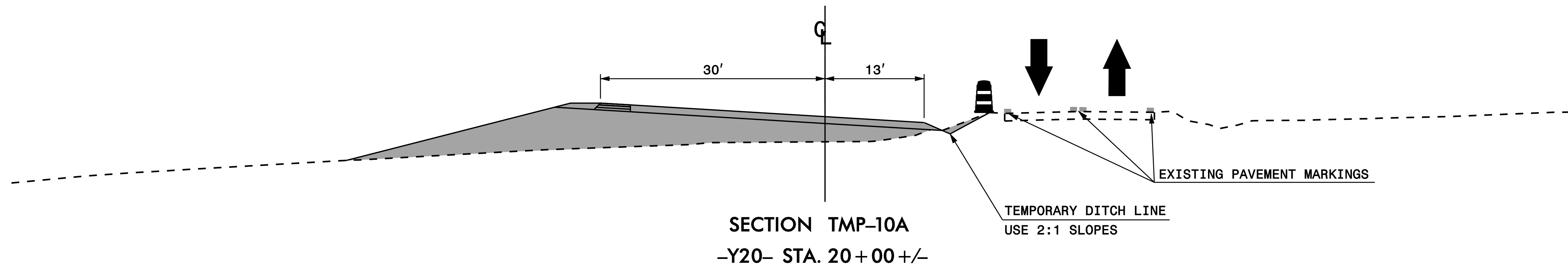


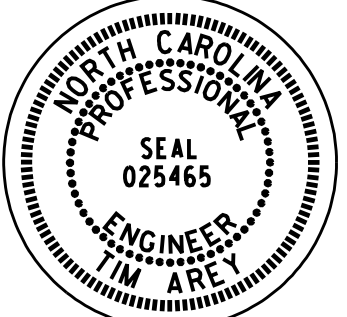

SECTION TMP-9G
-Y16- STA. 34+00+/-

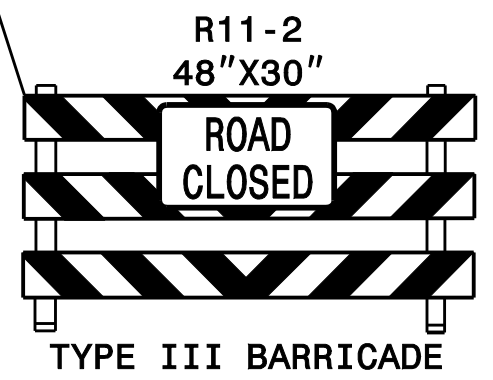
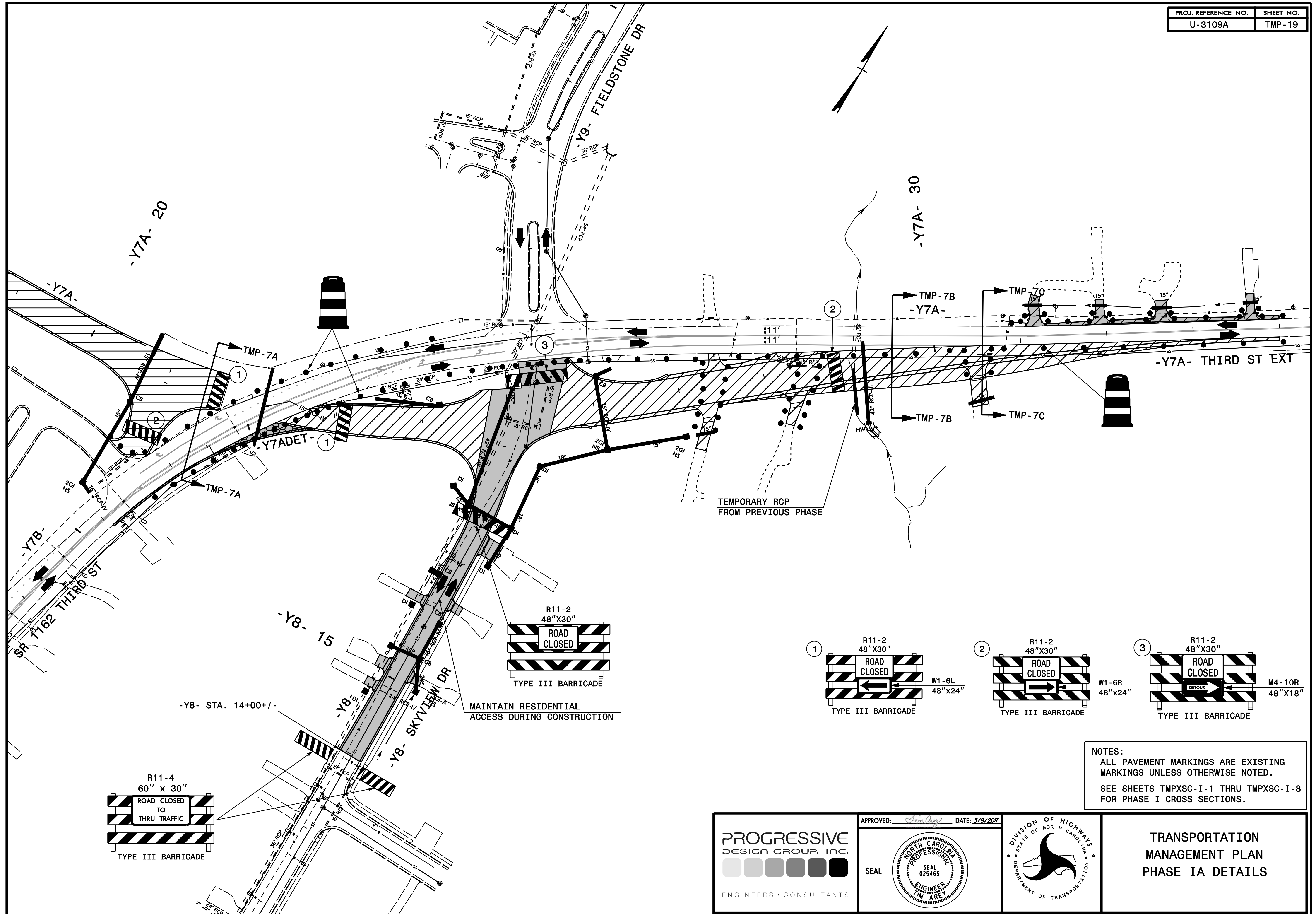


SECTION TMP-9H
-Y16- STA. 39+00+/-

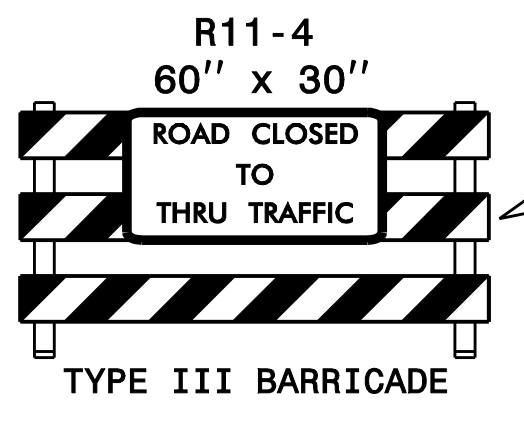
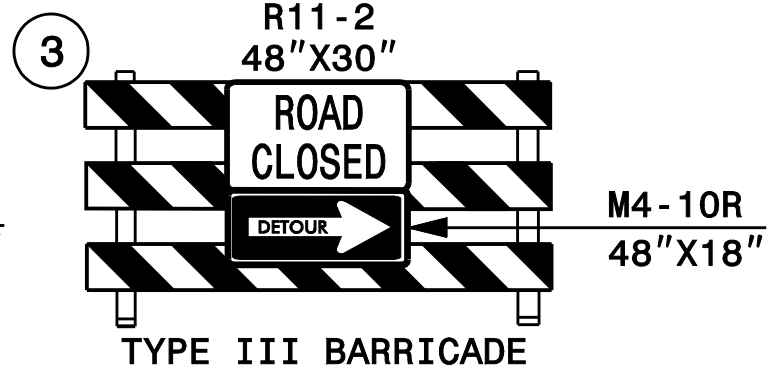
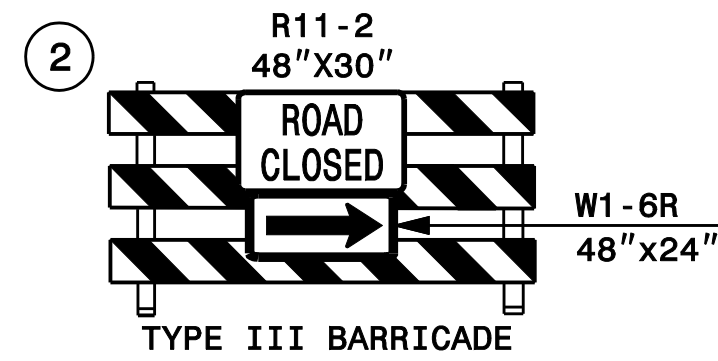
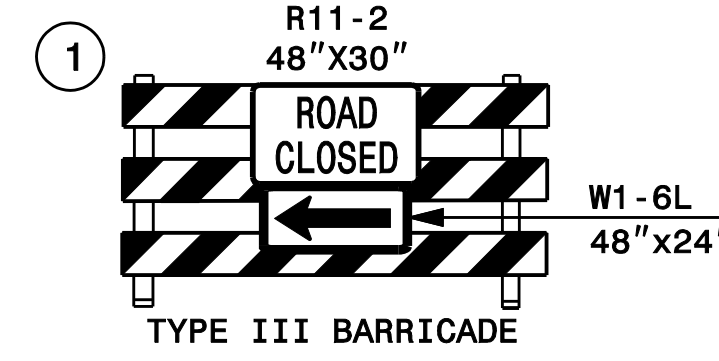
<p>PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>[Signature]</i> DATE: 3/9/2017</p> <p>SEAL</p> 		<p>TRANSPORTATION MANAGEMENT PLAN CROSS SECTIONS PHASE I</p>
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<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: _____ DATE: 3/9/2017</p> <p>SEAL</p> 		<p>TRANSPORTATION MANAGEMENT PLAN CROSS SECTIONS PHASE I</p>
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MAINTAIN RESIDENTIAL
ACCESS DURING CONSTRUCTION



NOTES:
ALL PAVEMENT MARKINGS ARE EXISTING
MARKINGS UNLESS OTHERWISE NOTED.
SEE SHEETS TMPXSC-I-1 THRU TMPXSC-I-8
FOR PHASE I CROSS SECTIONS.

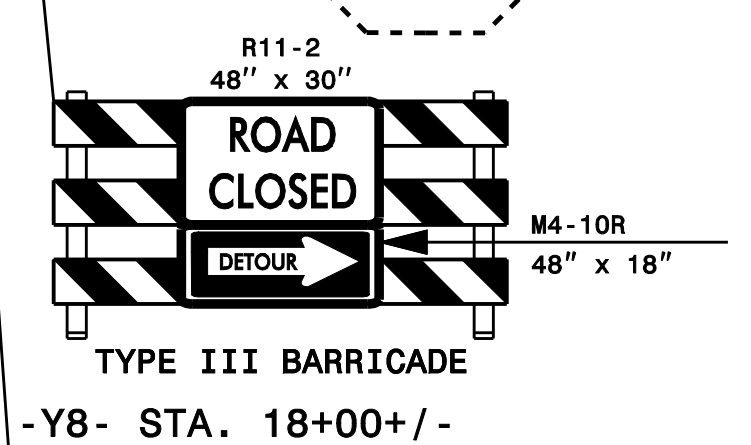
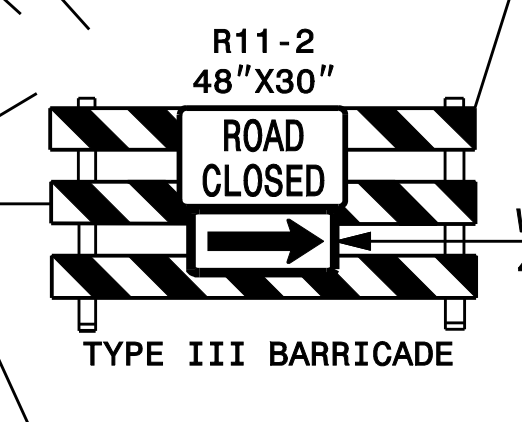
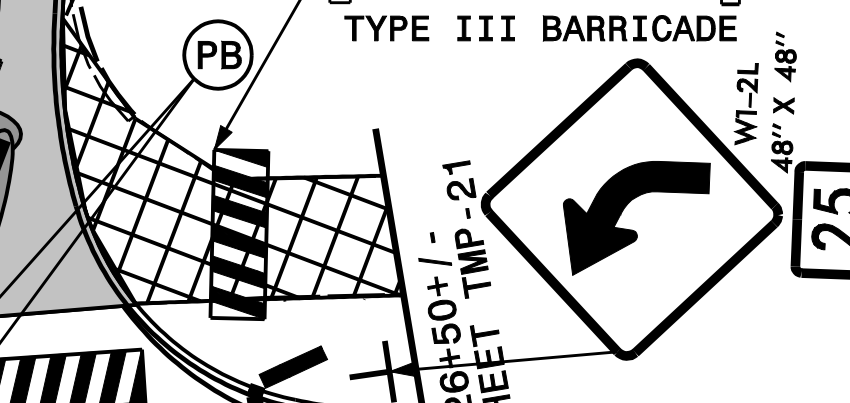
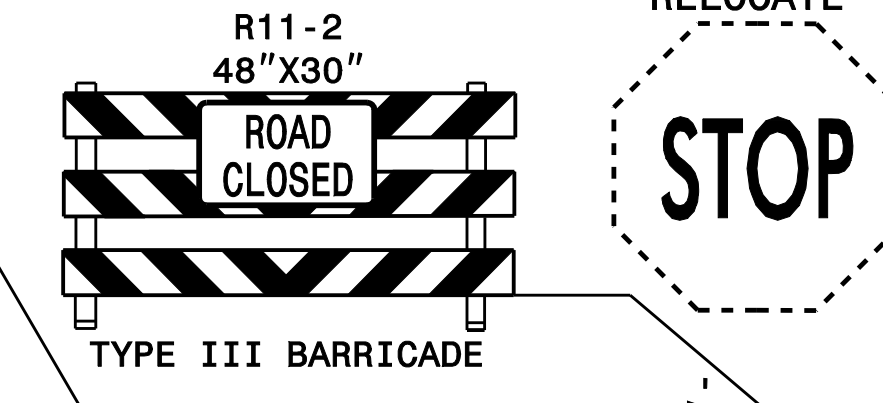
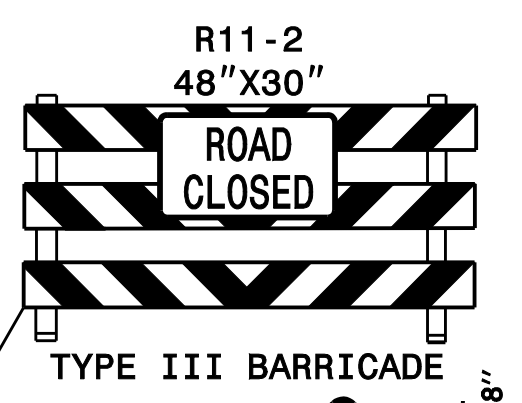
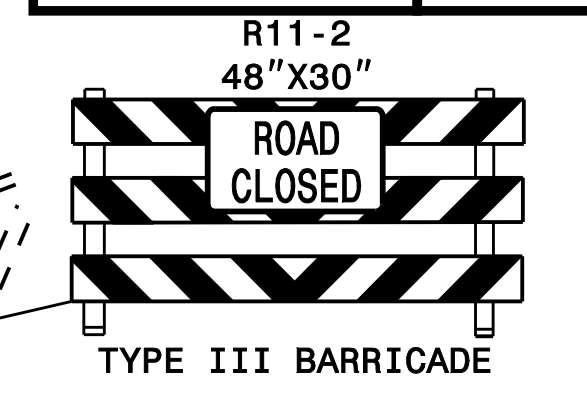
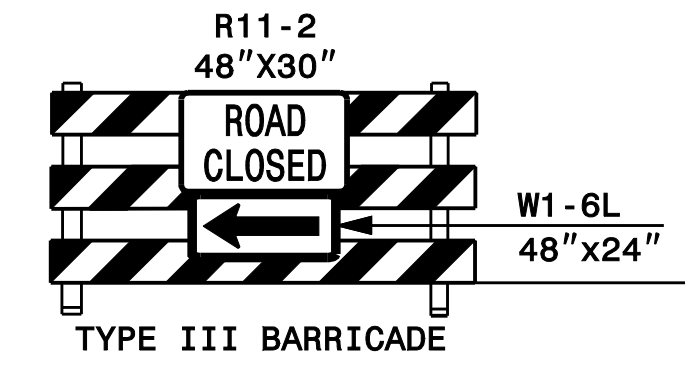
PROGRESSIVE
DESIGN GROUP, INC.
ENGINEERS • CONSULTANTS

APPROVED: *[Signature]* DATE: 3/9/2017
SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
025465
M. ARE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

**TRANSPORTATION
MANAGEMENT PLAN
PHASE IA DETAILS**

INSTALL REMAINING COMPONENTS OF THE PROPOSED STORM WATER NETWORK. REMOVE EXISTING COMPONENTS ON THE STORM WATER NETWORK AS SHOWN IN THE STORM WATER PLANS AND CONSTRUCT THE PROPOSED SECTION OF -Y9- SHOWN. REFER TO THE -Y9- OFFSITE DETOUR SHOWN ON SHEET TMP-2G.



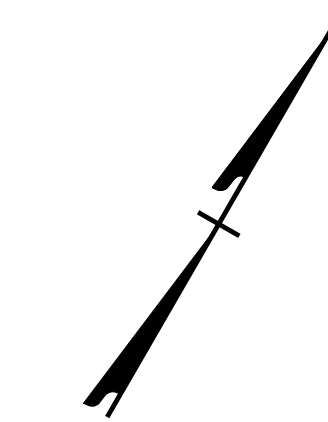
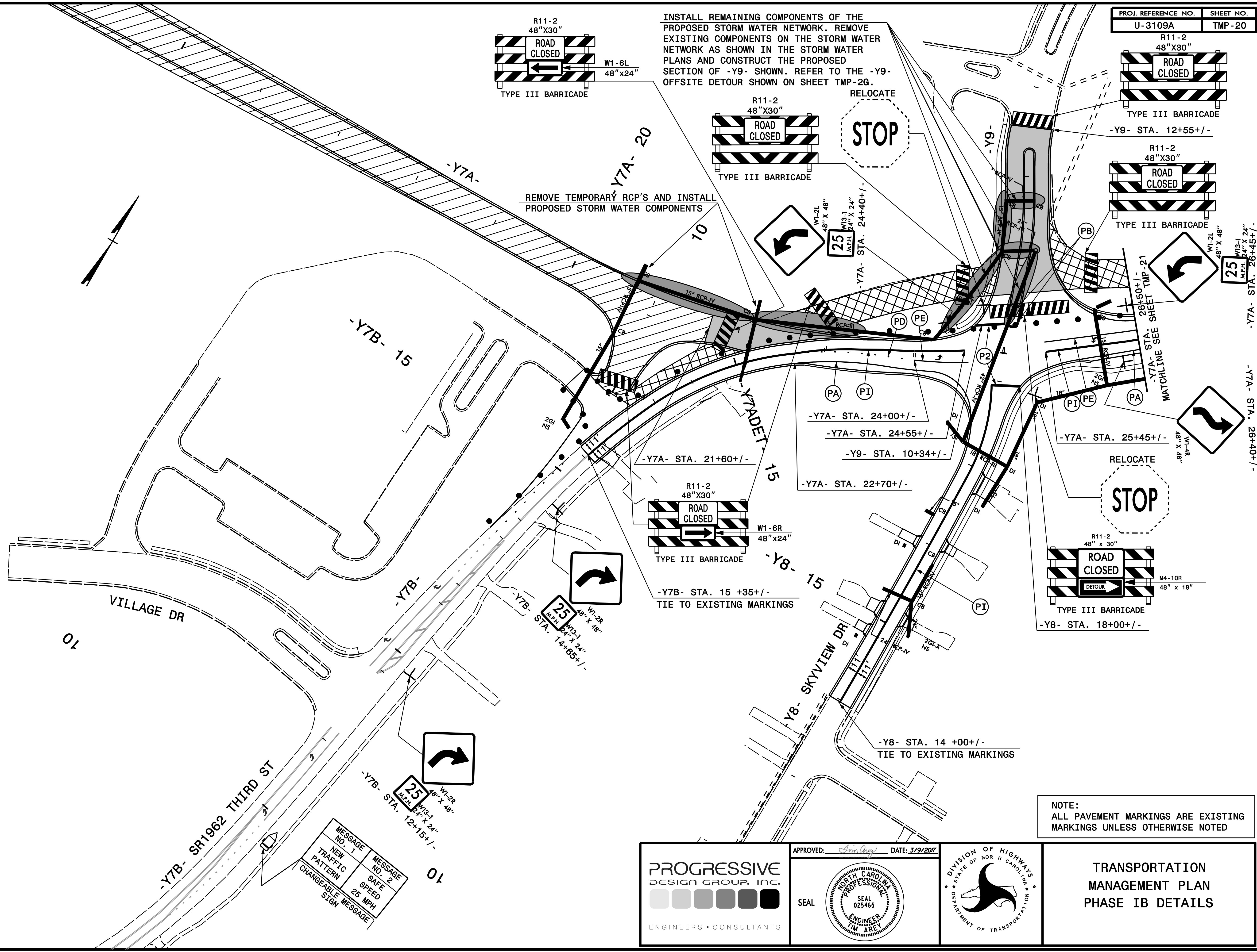
-Y7B- STA. 15 +35+/-
TIE TO EXISTING MARKINGS

-Y7A- STA. 21+60+/-

-Y7A- STA. 24+00+/-
-Y7A- STA. 24+55+/-
-Y7A- STA. 22+70+/-
-Y9- STA. 10+34+/-

-Y7A- STA. 25+45+/-

-Y8- STA. 14 +00+/-
TIE TO EXISTING MARKINGS



MESSAGE NO. 1
NEW TRAFFIC PATTERN
CHANGEABLE MESSAGE SIGN

MESSAGE NO. 2
SAFE SPEED
25 MPH

NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED

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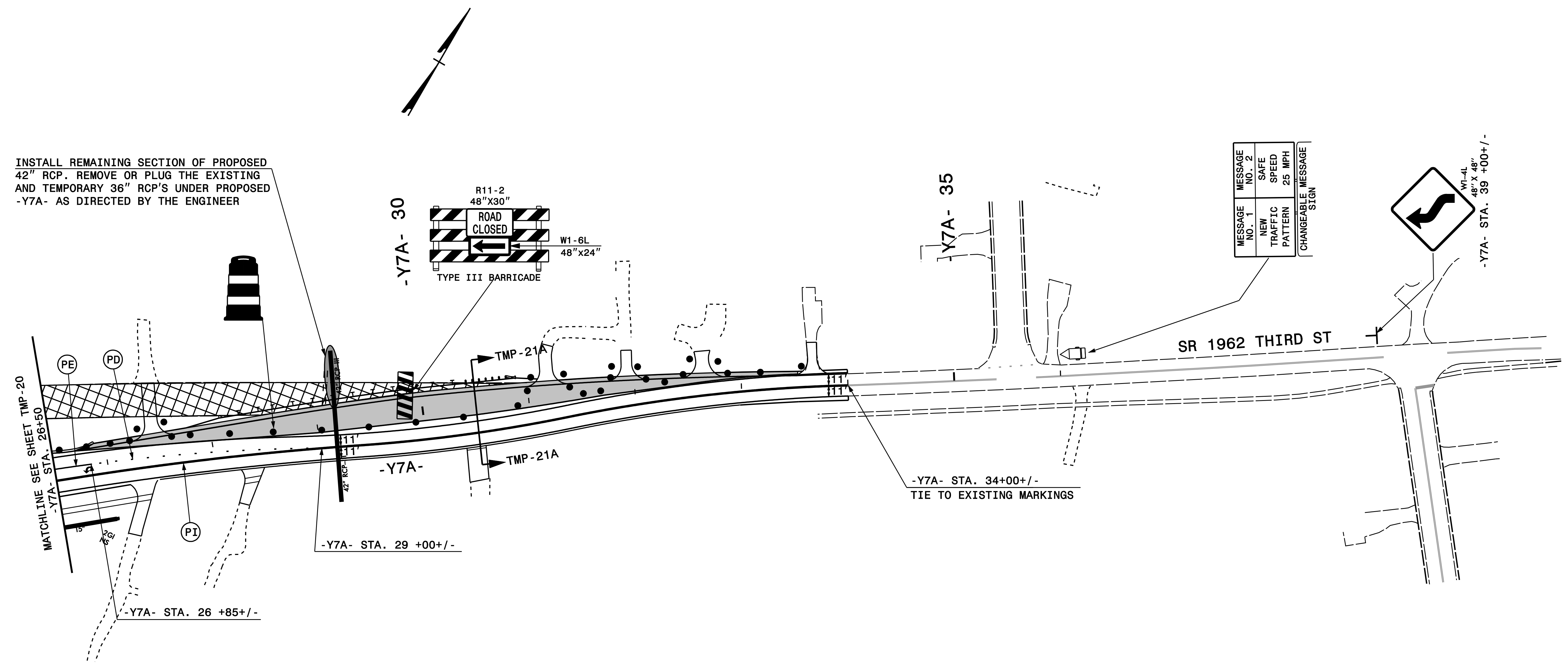
APPROVED: *[Signature]* DATE: 3/9/2017

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SEAL 025465
M. ARE

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION MANAGEMENT PLAN
PHASE 1B DETAILS

INSTALL REMAINING SECTION OF PROPOSED 42" RCP. REMOVE OR PLUG THE EXISTING AND TEMPORARY 36" RCP'S UNDER PROPOSED -Y7A- AS DIRECTED BY THE ENGINEER



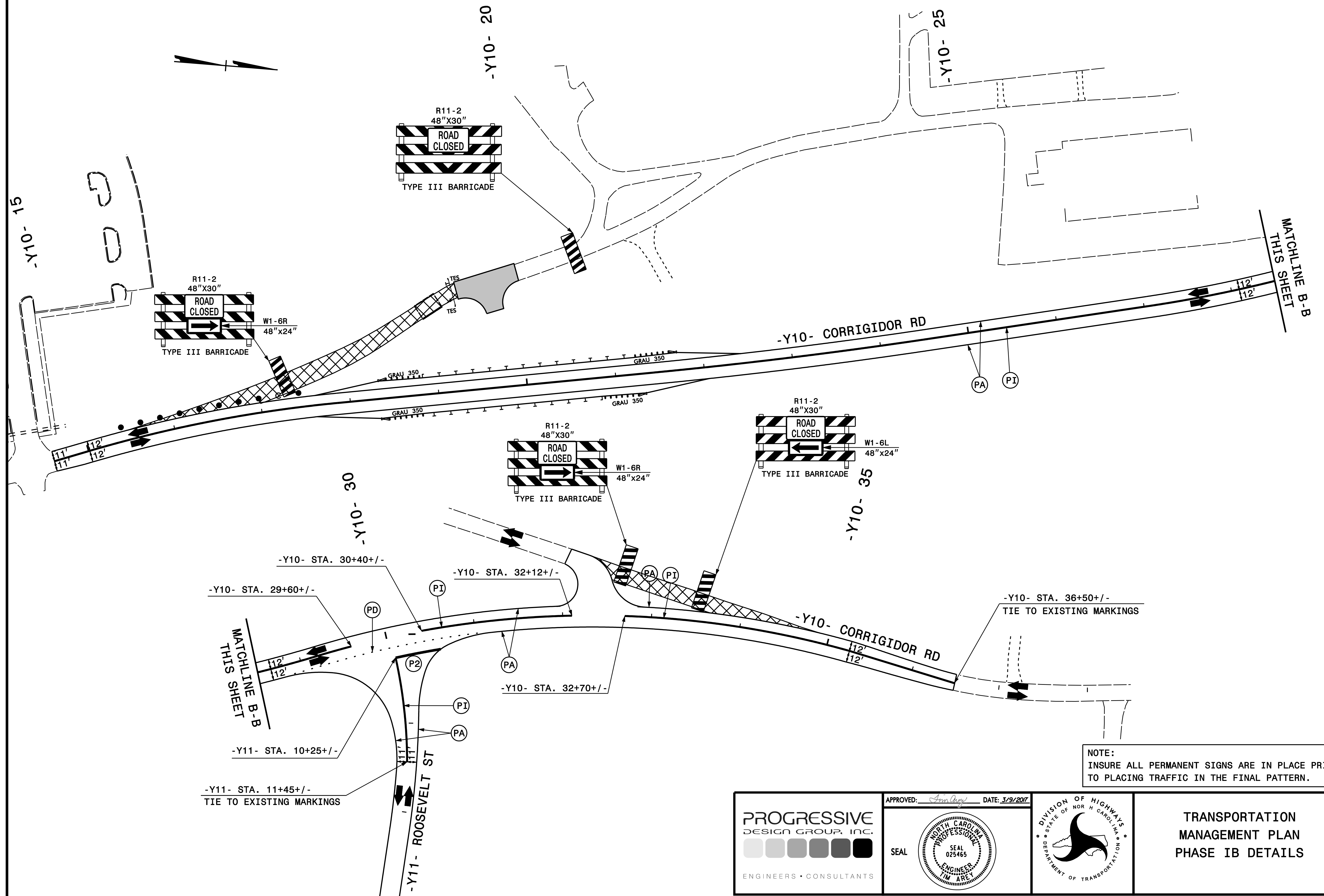
NOTES:
 ALL PAVEMENT MARKINGS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED.
 SEE SHEET TMPXSC-IB-1 FOR PHASE IB CROSS SECTIONS.

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DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION

TRANSPORTATION
 MANAGEMENT PLAN
 PHASE IB DETAILS



NOTE:
INSURE ALL PERMANENT SIGNS ARE IN PLACE PRIOR
TO PLACING TRAFFIC IN THE FINAL PATTERN.

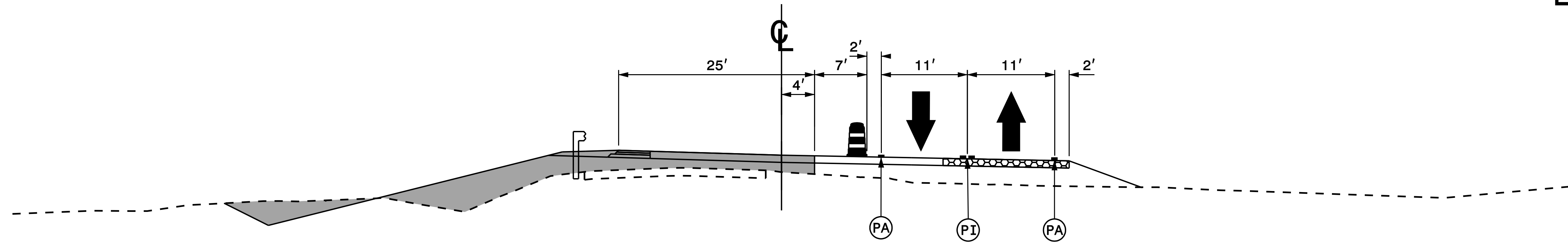
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DESIGN GROUP, INC.
ENGINEERS • CONSULTANTS

APPROVED: *[Signature]* DATE: 3/9/2017

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SEAL 025465
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

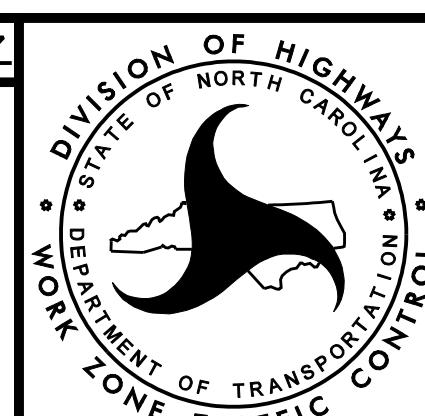
TRANSPORTATION
MANAGEMENT PLAN
PHASE IB DETAILS



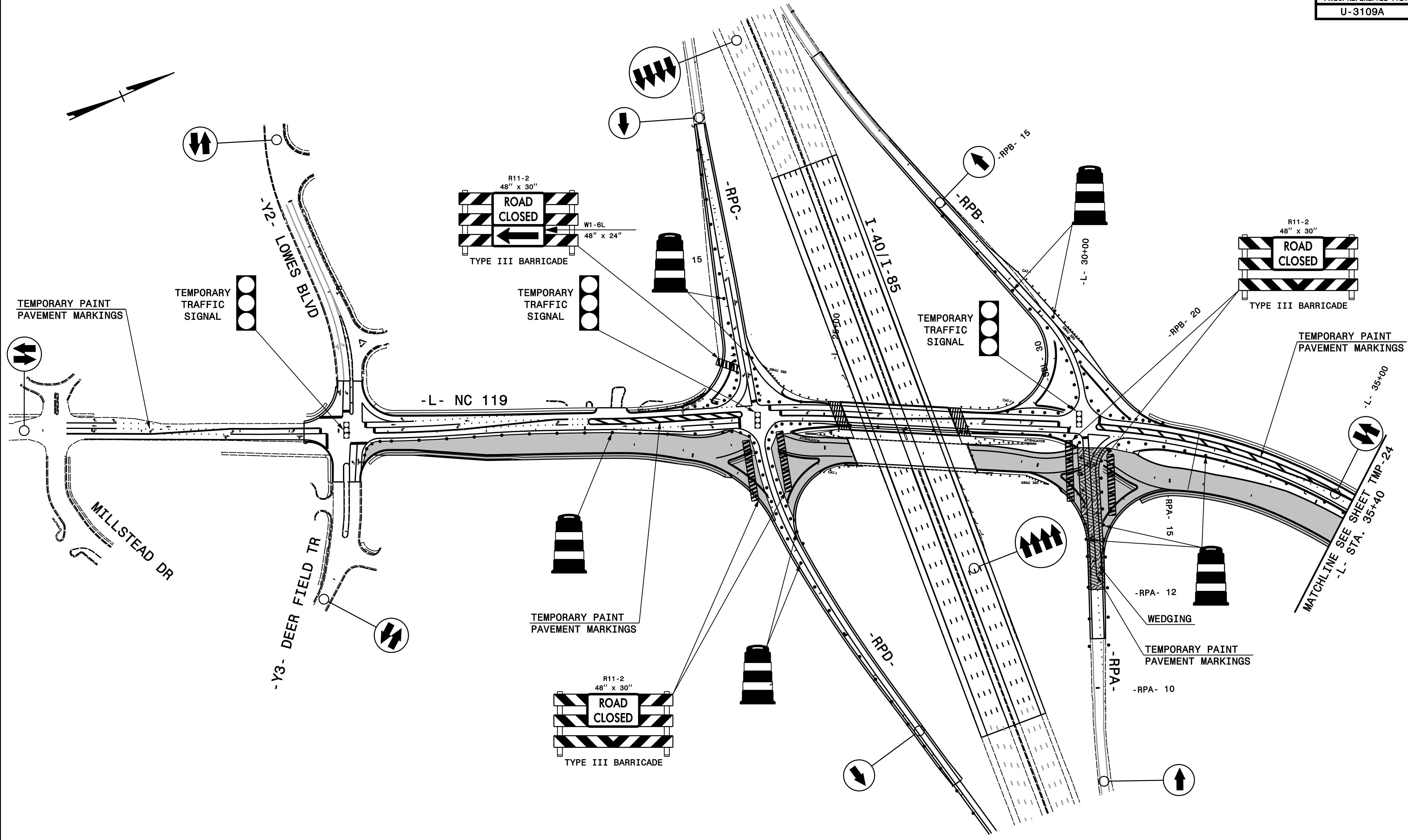
SECTION TMP-21A
 -Y7A- STA. 30+50 +/-

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 ENGINEERS • CONSULTANTS

APPROVED: *[Signature]* DATE: 3/9/2017
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 NORTH CAROLINA
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 ENGINEER
 SEAL 025465
 TM ARE



TRANSPORTATION
 MANAGEMENT PLAN
 CROSS SECTIONS
 PHASE IB

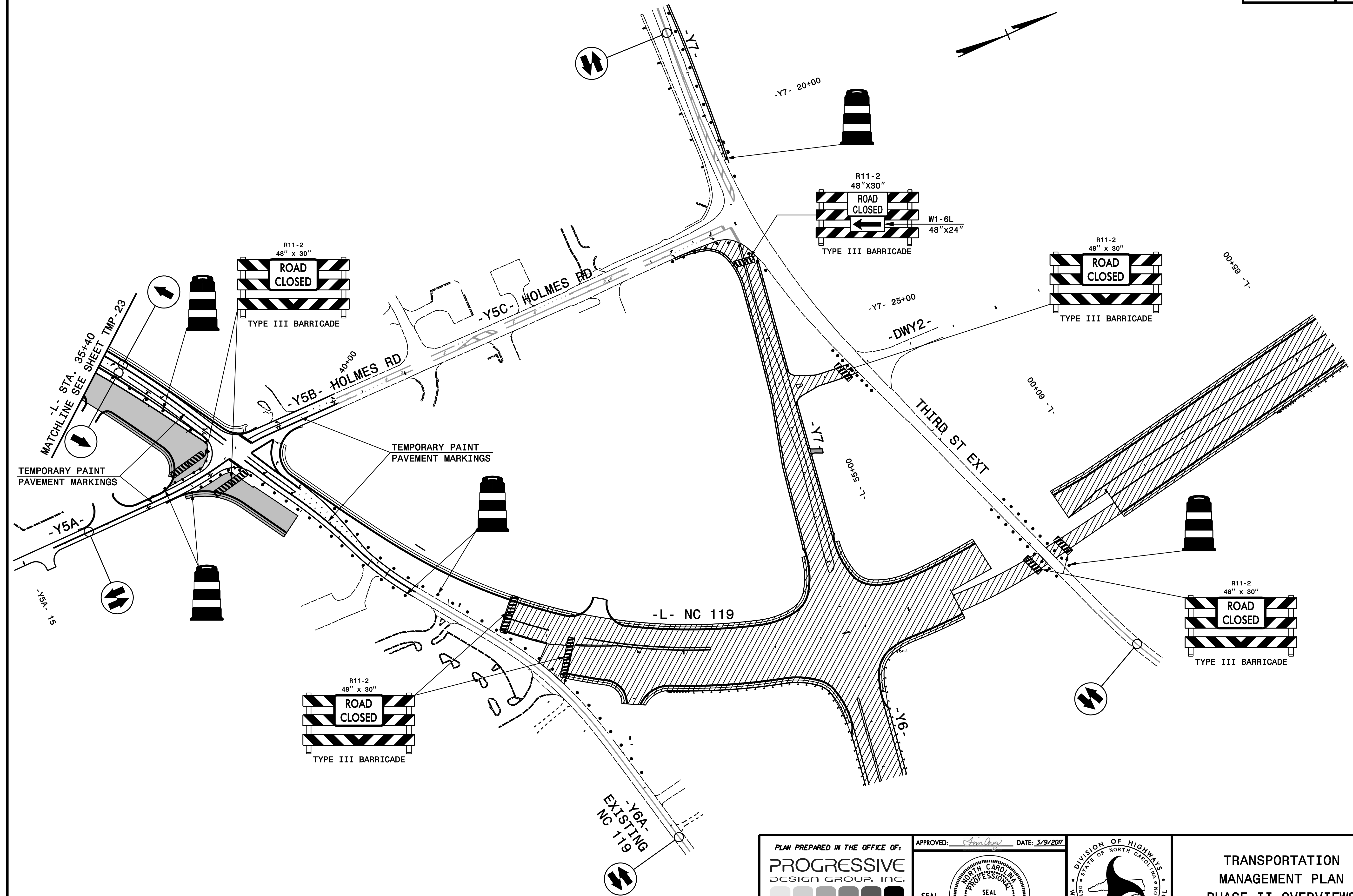


PLAN PREPARED IN THE OFFICE OF:
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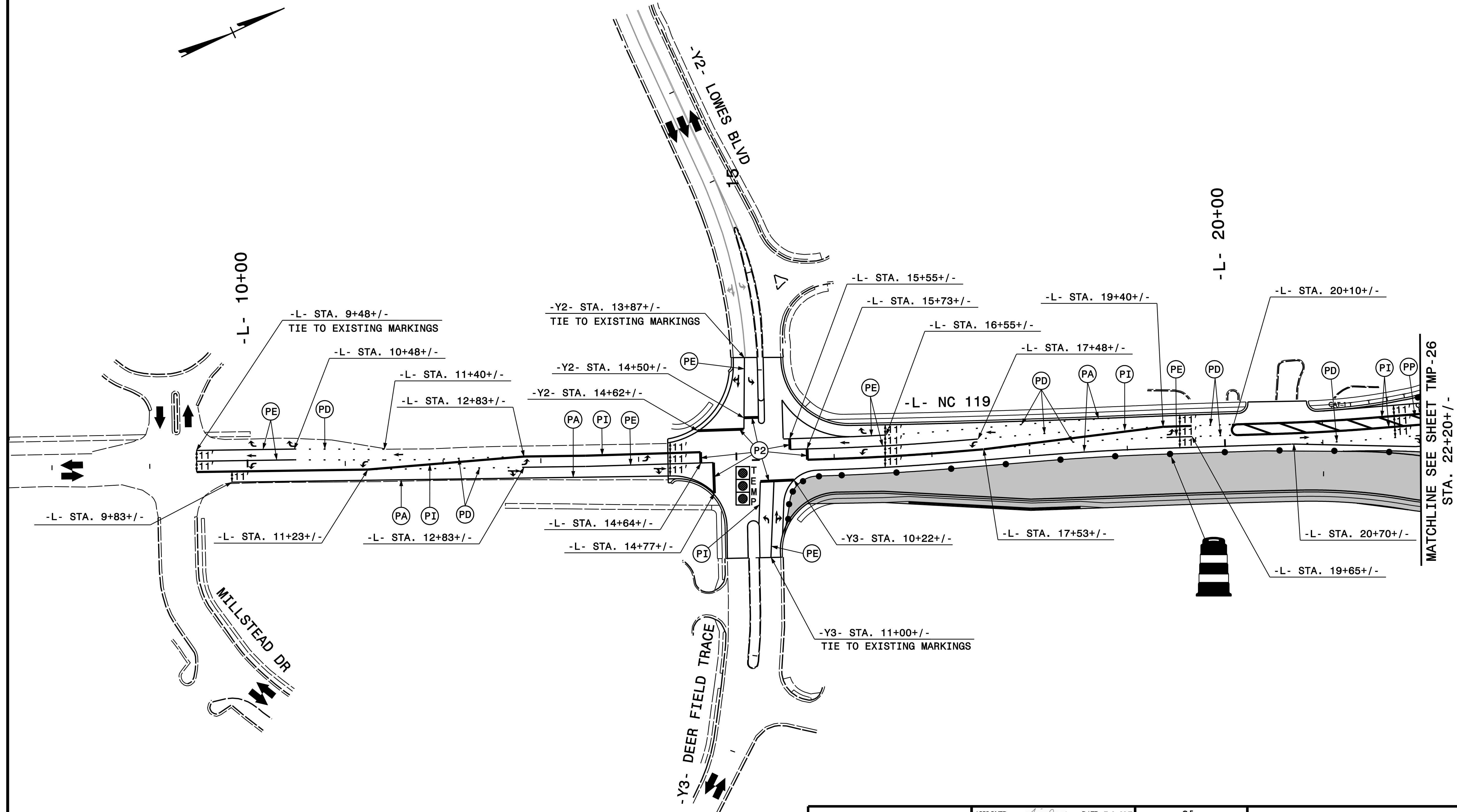
APPROVED: *Jan Day* DATE: 3/9/2017
 SEAL
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 SEAL 025465
 I.M. ARE



**TRANSPORTATION
 MANAGEMENT PLAN
 PHASE II OVERVIEWS**



<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Jan Gray</i> DATE: 3/9/2017</p> <p>SEAL</p>		<p align="center">TRANSPORTATION MANAGEMENT PLAN PHASE II OVERVIEWS</p>
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PROGRESSIVE
DESIGN GROUP, INC.
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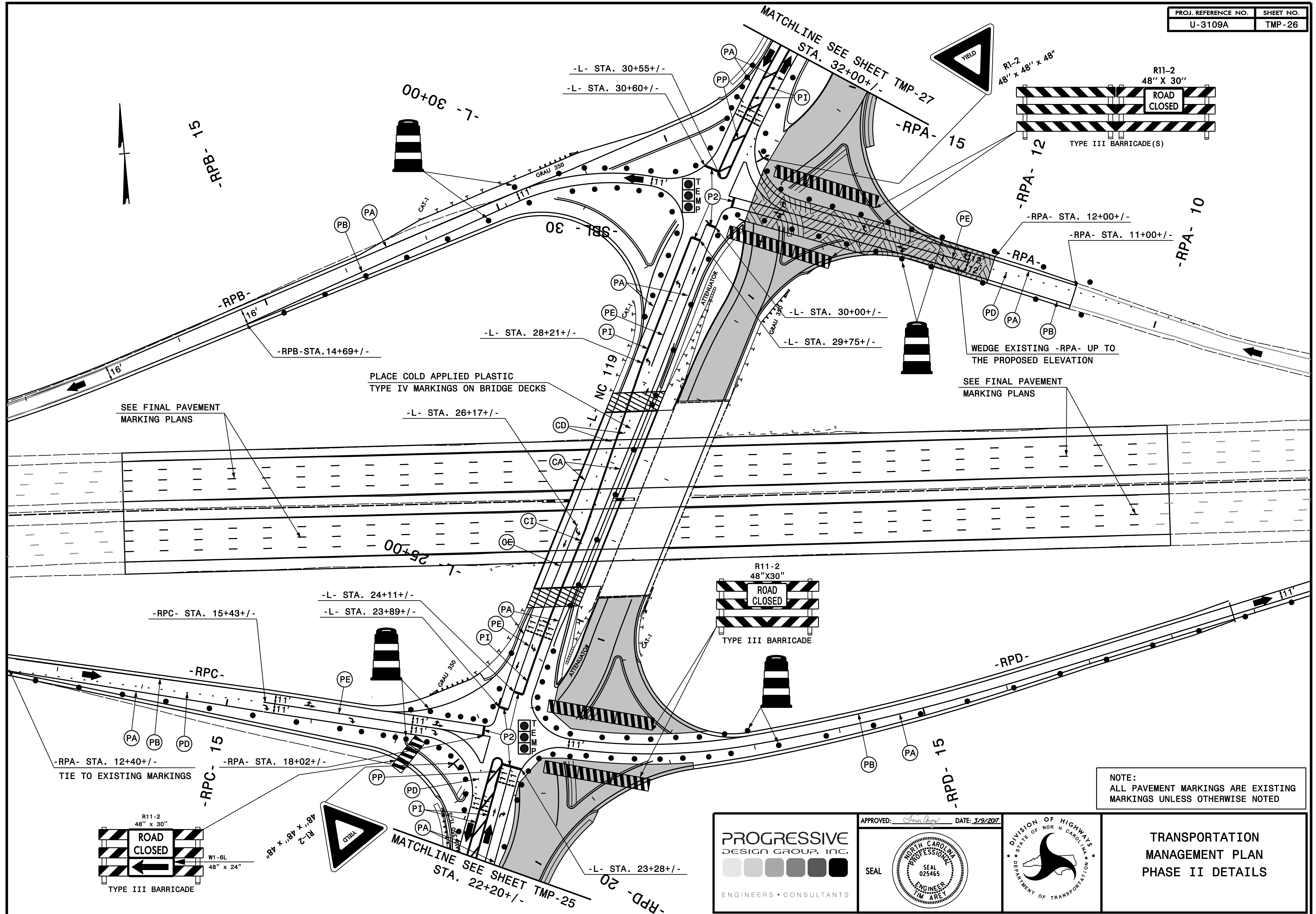
APPROVED: *Jan Quigley* DATE: 3/9/2017

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465 TAM ARE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION
MANAGEMENT PLAN
PHASE II DETAILS

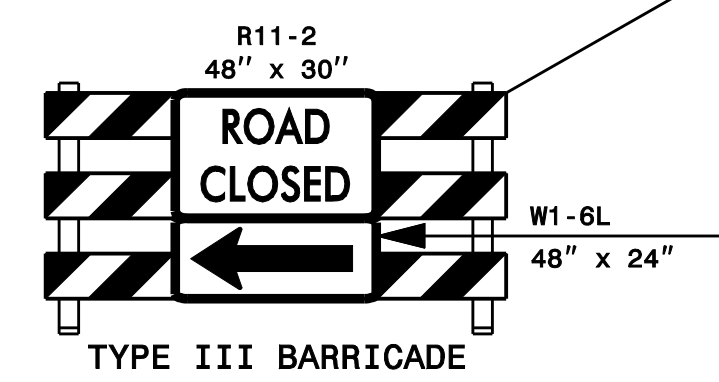


SEE FINAL PAVEMENT MARKING PLANS

PLACE COLD APPLIED PLASTIC TYPE IV MARKINGS ON BRIDGE DECKS

SEE FINAL PAVEMENT MARKING PLANS

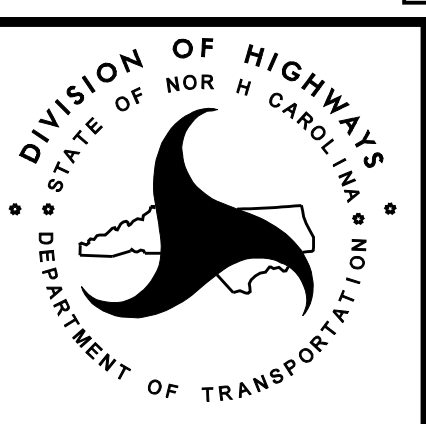
NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED



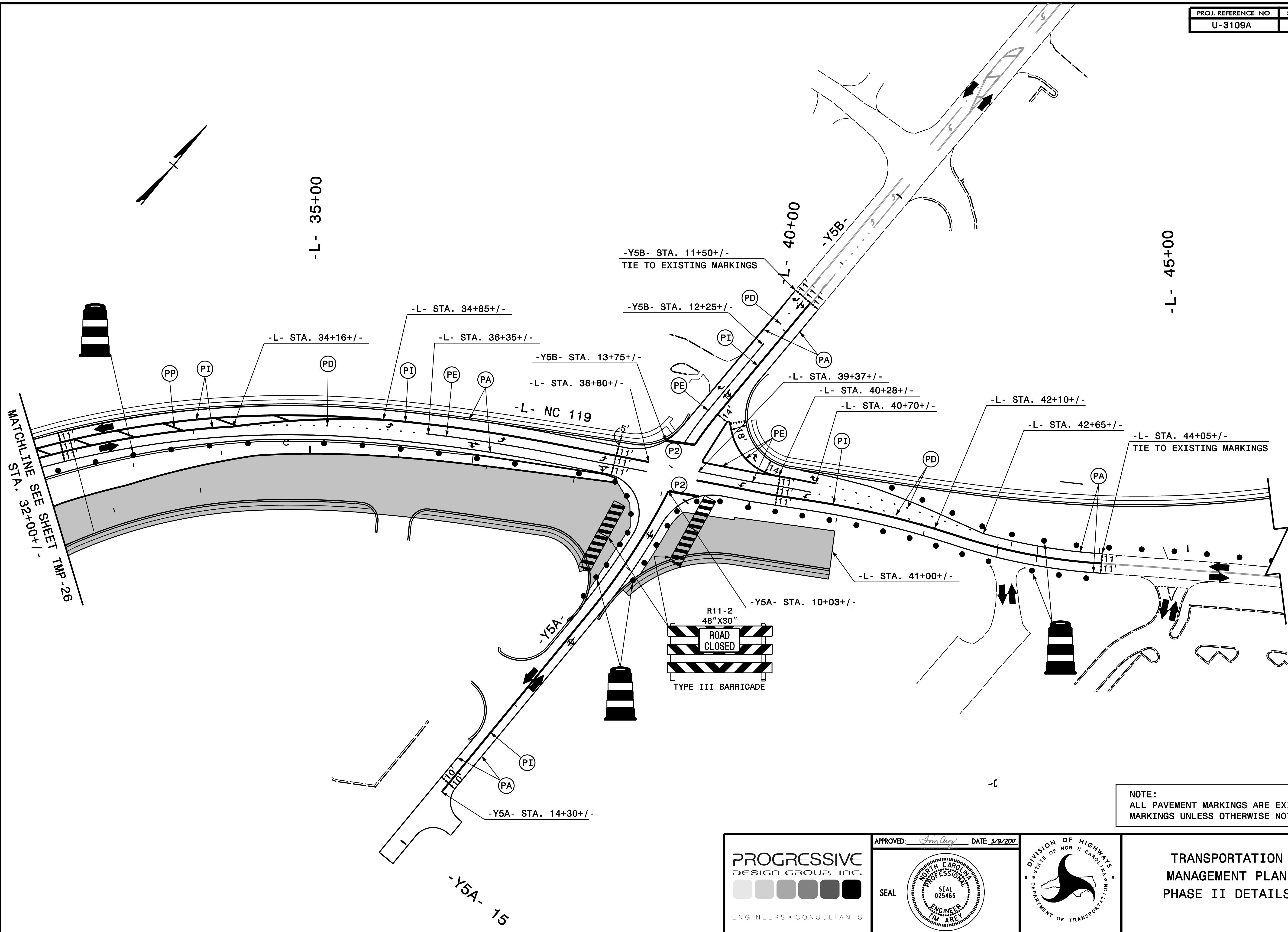
PROGRESSIVE DESIGN GROUP, INC.
ENGINEERS • CONSULTANTS

APPROVED: *[Signature]* DATE: 3/29/2017

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
TM ARE
SEAL 025465



**TRANSPORTATION MANAGEMENT PLAN
PHASE II DETAILS**



NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING
MARKINGS UNLESS OTHERWISE NOTED

PROGRESSIVE
DESIGN GROUP, INC.
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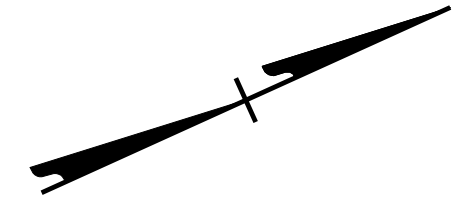
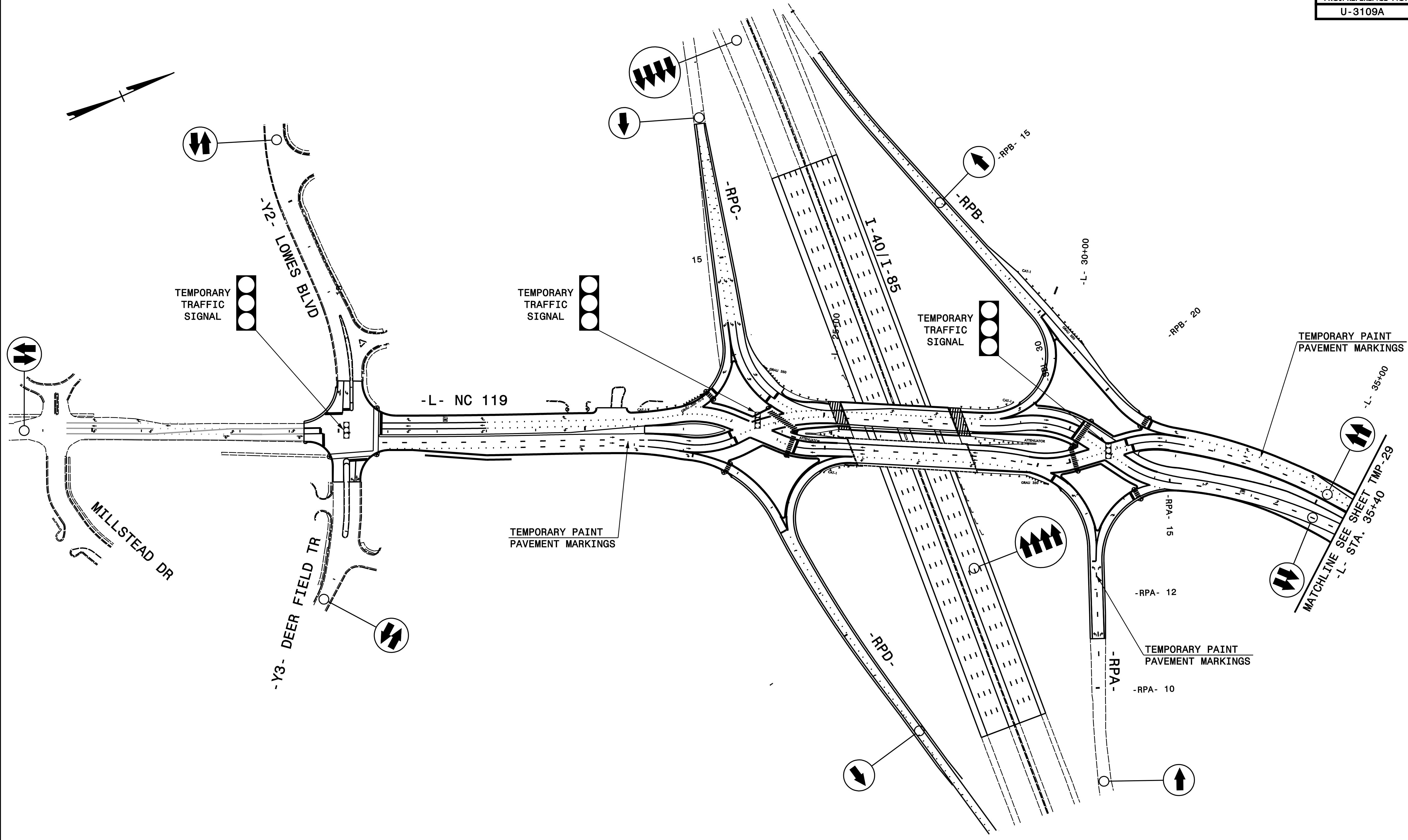
APPROVED: *John Gray* DATE: 3/9/2017

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION
MANAGEMENT PLAN
PHASE II DETAILS

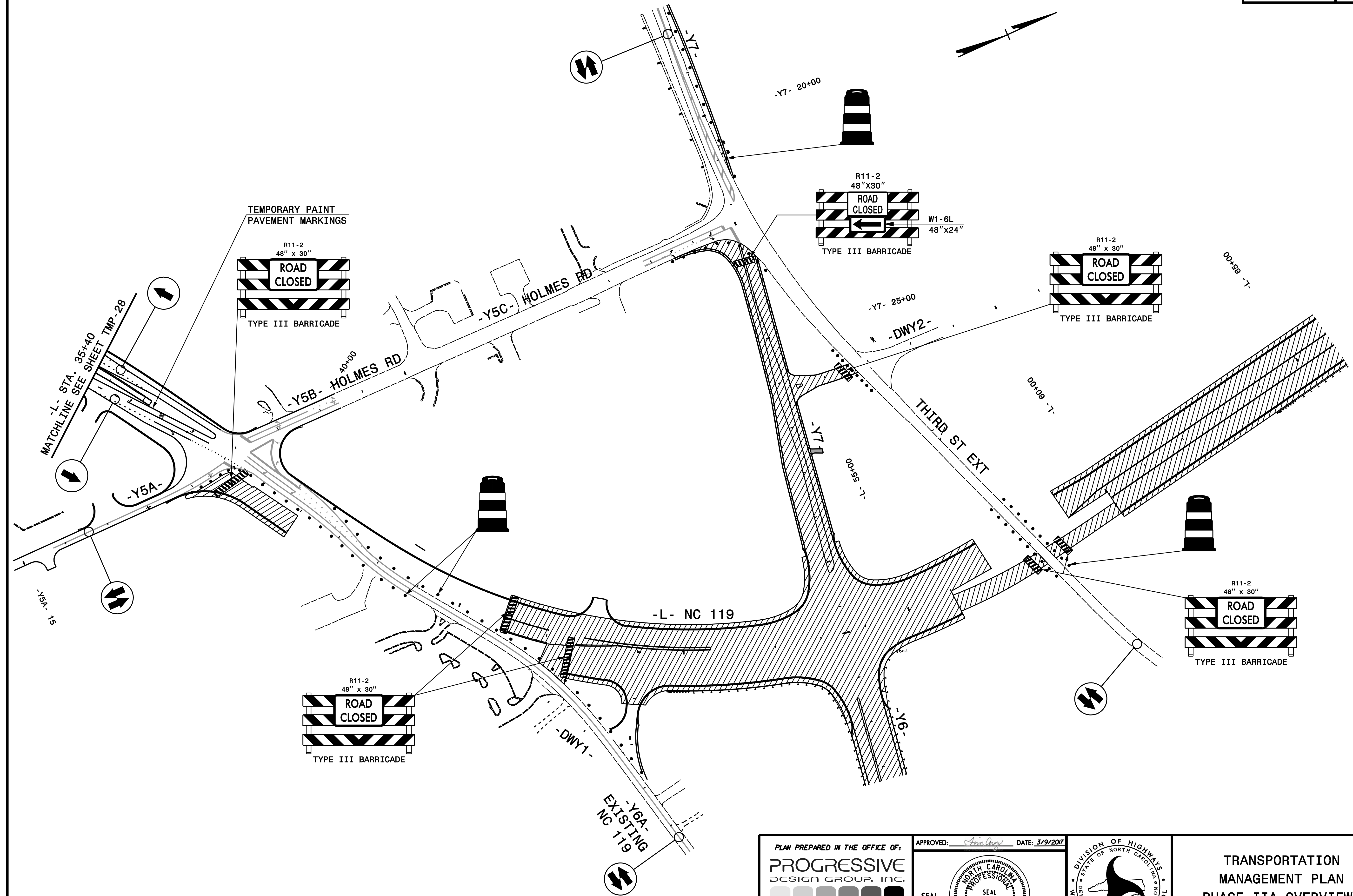


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APPROVED: *[Signature]* DATE: 3/9/2017
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 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 SEAL 025465
 TAM ARE

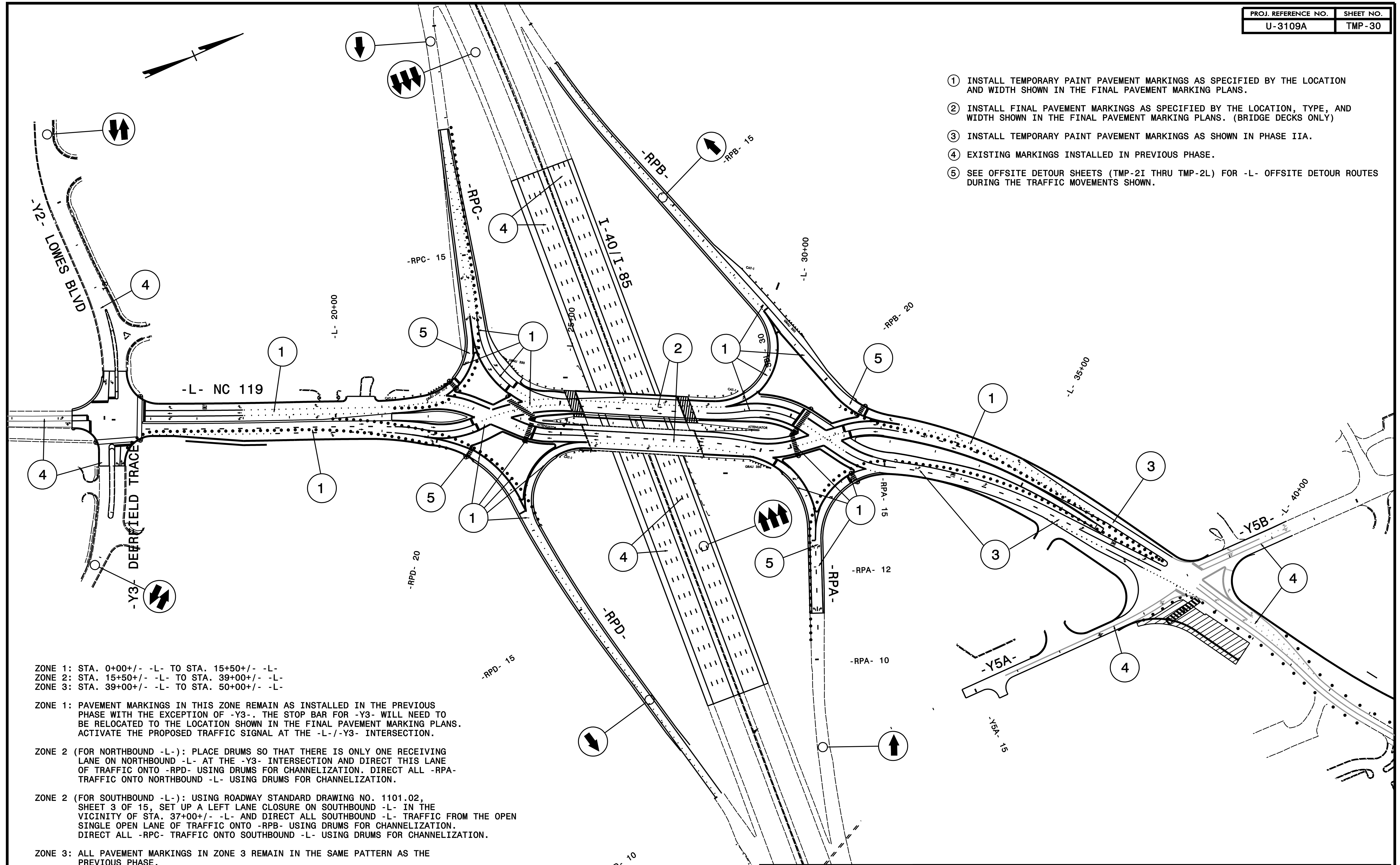


**TRANSPORTATION
 MANAGEMENT PLAN
 PHASE IIA OVERVIEWS**



<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>[Signature]</i> DATE: 3/9/2017</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE IIA OVERVIEWS</p>
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- ① INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AS SPECIFIED BY THE LOCATION AND WIDTH SHOWN IN THE FINAL PAVEMENT MARKING PLANS.
- ② INSTALL FINAL PAVEMENT MARKINGS AS SPECIFIED BY THE LOCATION, TYPE, AND WIDTH SHOWN IN THE FINAL PAVEMENT MARKING PLANS. (BRIDGE DECKS ONLY)
- ③ INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AS SHOWN IN PHASE IIA.
- ④ EXISTING MARKINGS INSTALLED IN PREVIOUS PHASE.
- ⑤ SEE OFFSITE DETOUR SHEETS (TMP-2I THRU TMP-2L) FOR -L- OFFSITE DETOUR ROUTES DURING THE TRAFFIC MOVEMENTS SHOWN.



ZONE 1: STA. 0+00+/- -L- TO STA. 15+50+/- -L-
 ZONE 2: STA. 15+50+/- -L- TO STA. 39+00+/- -L-
 ZONE 3: STA. 39+00+/- -L- TO STA. 50+00+/- -L-

ZONE 1: PAVEMENT MARKINGS IN THIS ZONE REMAIN AS INSTALLED IN THE PREVIOUS PHASE WITH THE EXCEPTION OF -Y3-. THE STOP BAR FOR -Y3- WILL NEED TO BE RELOCATED TO THE LOCATION SHOWN IN THE FINAL PAVEMENT MARKING PLANS. ACTIVATE THE PROPOSED TRAFFIC SIGNAL AT THE -L-/-Y3- INTERSECTION.

ZONE 2 (FOR NORTHBOUND -L-): PLACE DRUMS SO THAT THERE IS ONLY ONE RECEIVING LANE ON NORTHBOUND -L- AT THE -Y3- INTERSECTION AND DIRECT THIS LANE OF TRAFFIC ONTO -RPD- USING DRUMS FOR CHANNELIZATION. DIRECT ALL -RPA- TRAFFIC ONTO NORTHBOUND -L- USING DRUMS FOR CHANNELIZATION.

ZONE 2 (FOR SOUTHBOUND -L-): USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 15, SET UP A LEFT LANE CLOSURE ON SOUTHBOUND -L- IN THE VICINITY OF STA. 37+00+/- -L- AND DIRECT ALL SOUTHBOUND -L- TRAFFIC FROM THE OPEN SINGLE OPEN LANE OF TRAFFIC ONTO -RPB- USING DRUMS FOR CHANNELIZATION. DIRECT ALL -RPC- TRAFFIC ONTO SOUTHBOUND -L- USING DRUMS FOR CHANNELIZATION.

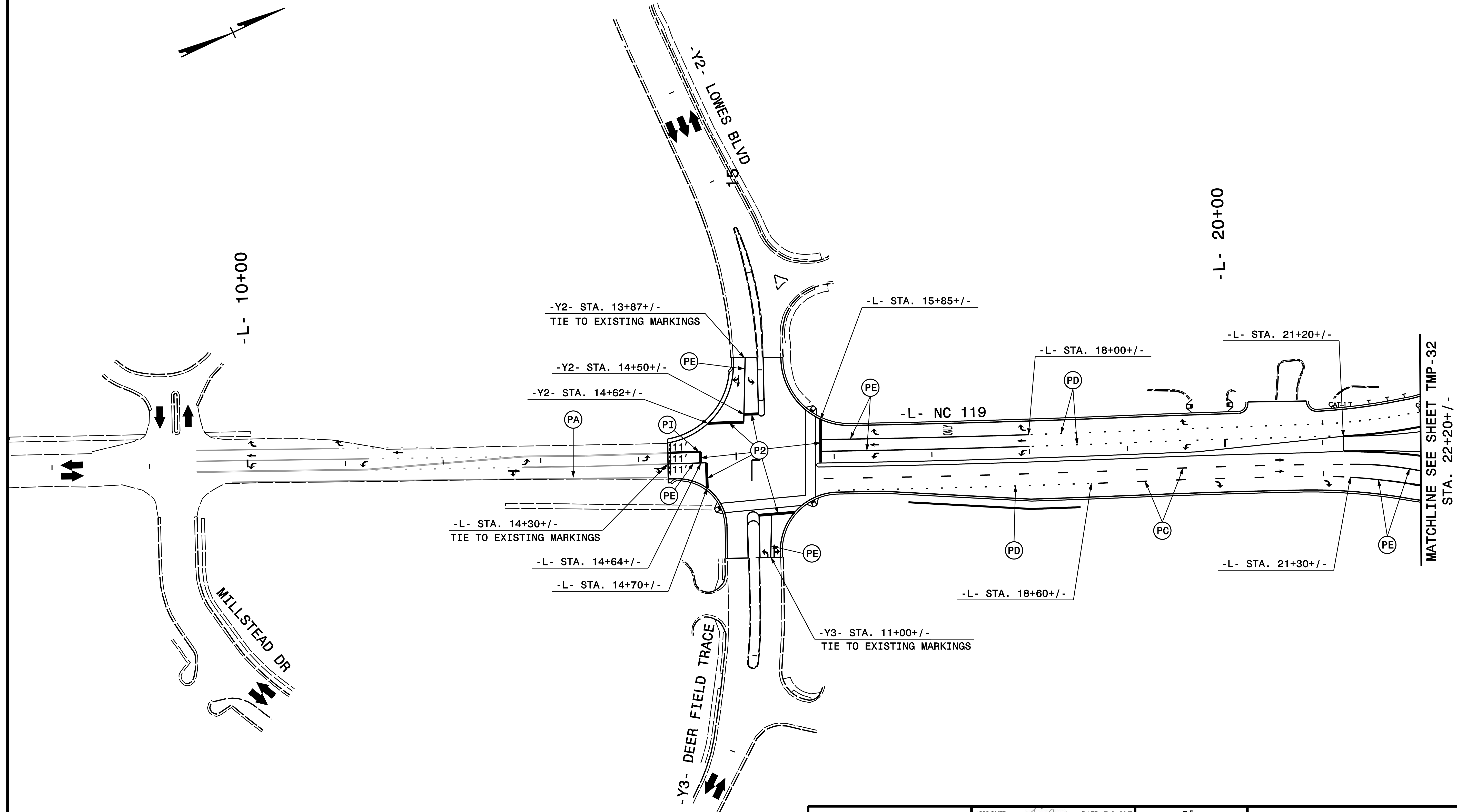
ZONE 3: ALL PAVEMENT MARKINGS IN ZONE 3 REMAIN IN THE SAME PATTERN AS THE PREVIOUS PHASE.

ALL RAMPS: PLACE ALL PAVEMENT MARKINGS ON ALL RAMPS ACCORDING TO THE LAYOUT SPECIFIED IN THE FINAL PAVEMENT MARKING PLANS.

PLAN PREPARED IN THE OFFICE OF:
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APPROVED: *Jan Day* DATE: 3/9/2017
 SEAL

**TRANSPORTATION
 MANAGEMENT PLAN
 PHASE IIA OVERVIEW**

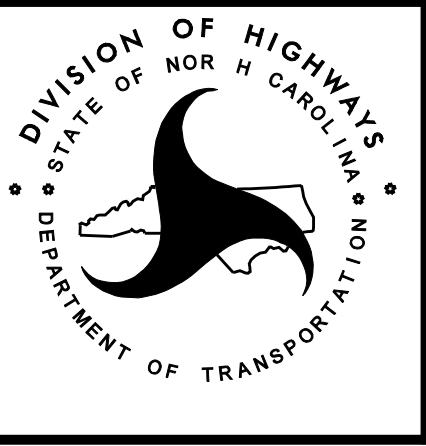


PROGRESSIVE
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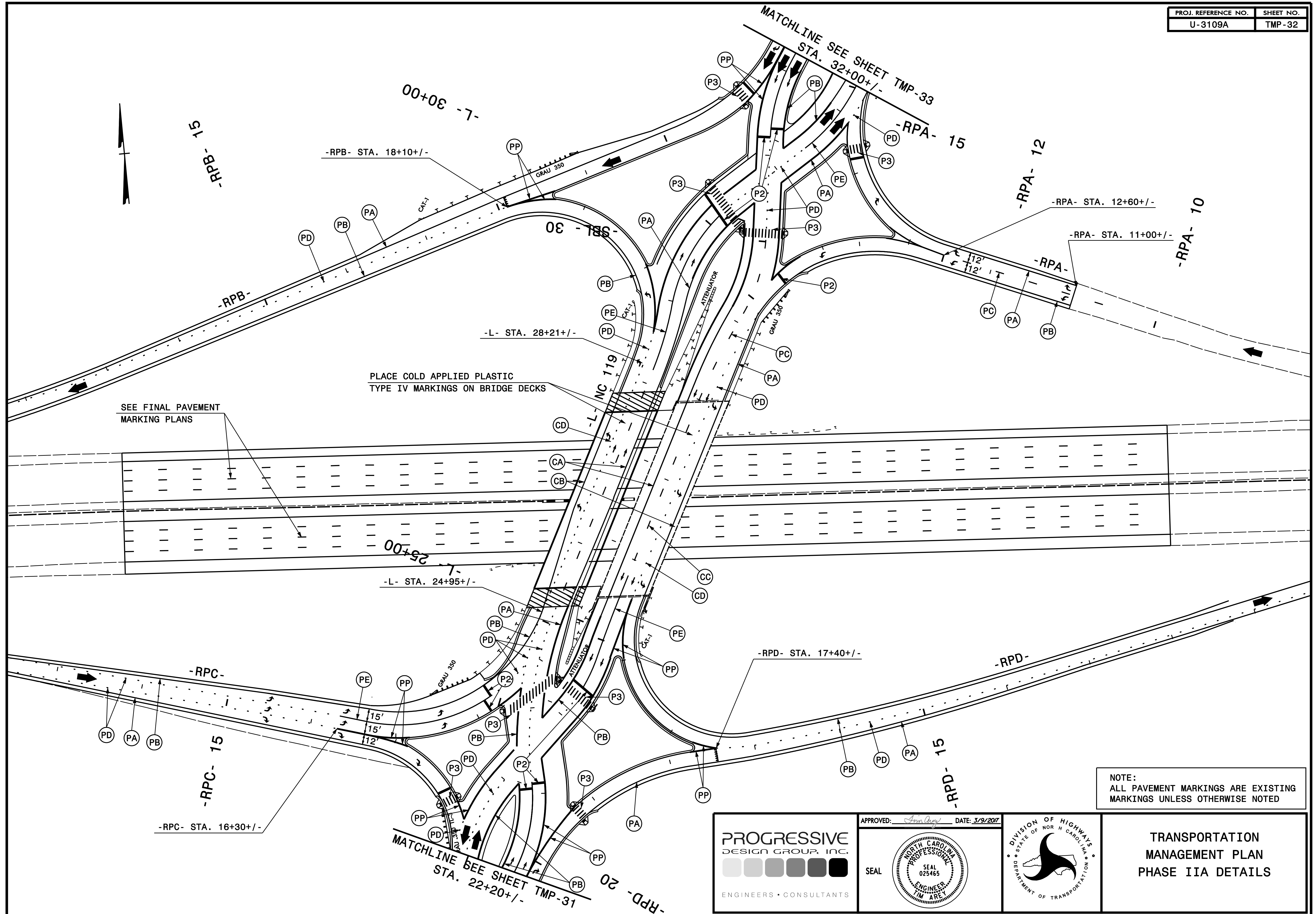
APPROVED: *Jan Gray* DATE: 3/9/2017

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465



TRANSPORTATION
MANAGEMENT PLAN
PHASE IIA DETAILS

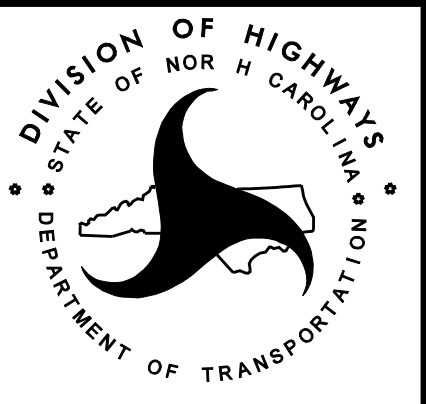


NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING
MARKINGS UNLESS OTHERWISE NOTED

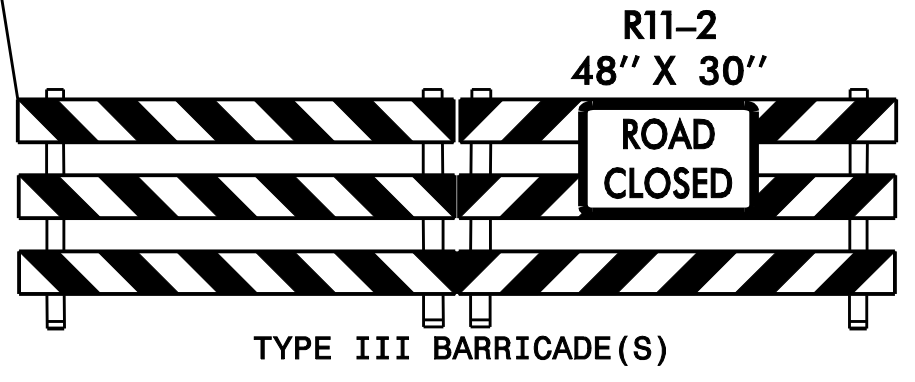
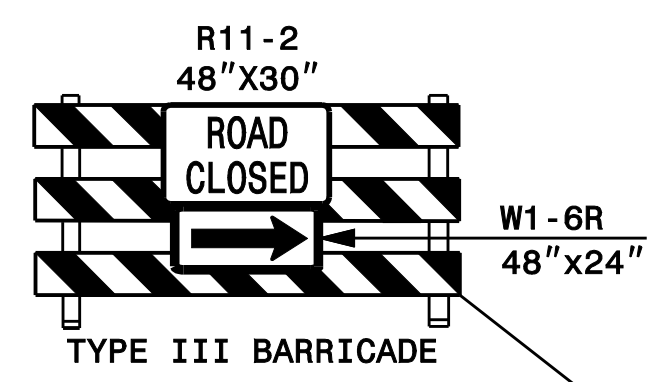
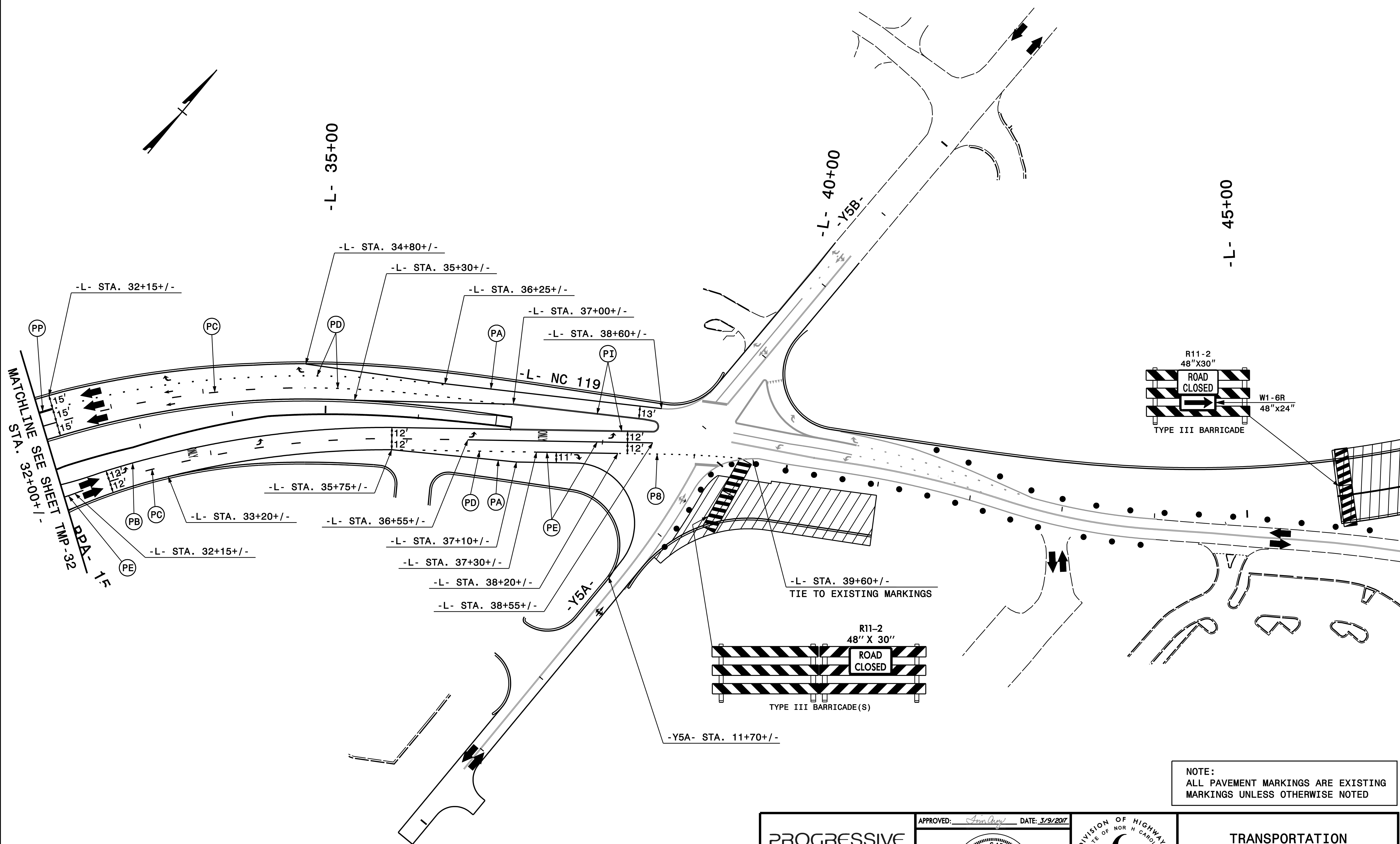
PROGRESSIVE
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APPROVED: *[Signature]* DATE: 3/9/2017

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**TRANSPORTATION
MANAGEMENT PLAN
PHASE IIA DETAILS**

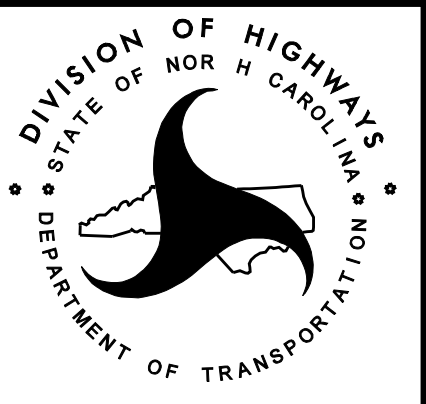


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APPROVED: *Ann Gray* DATE: 3/9/2017

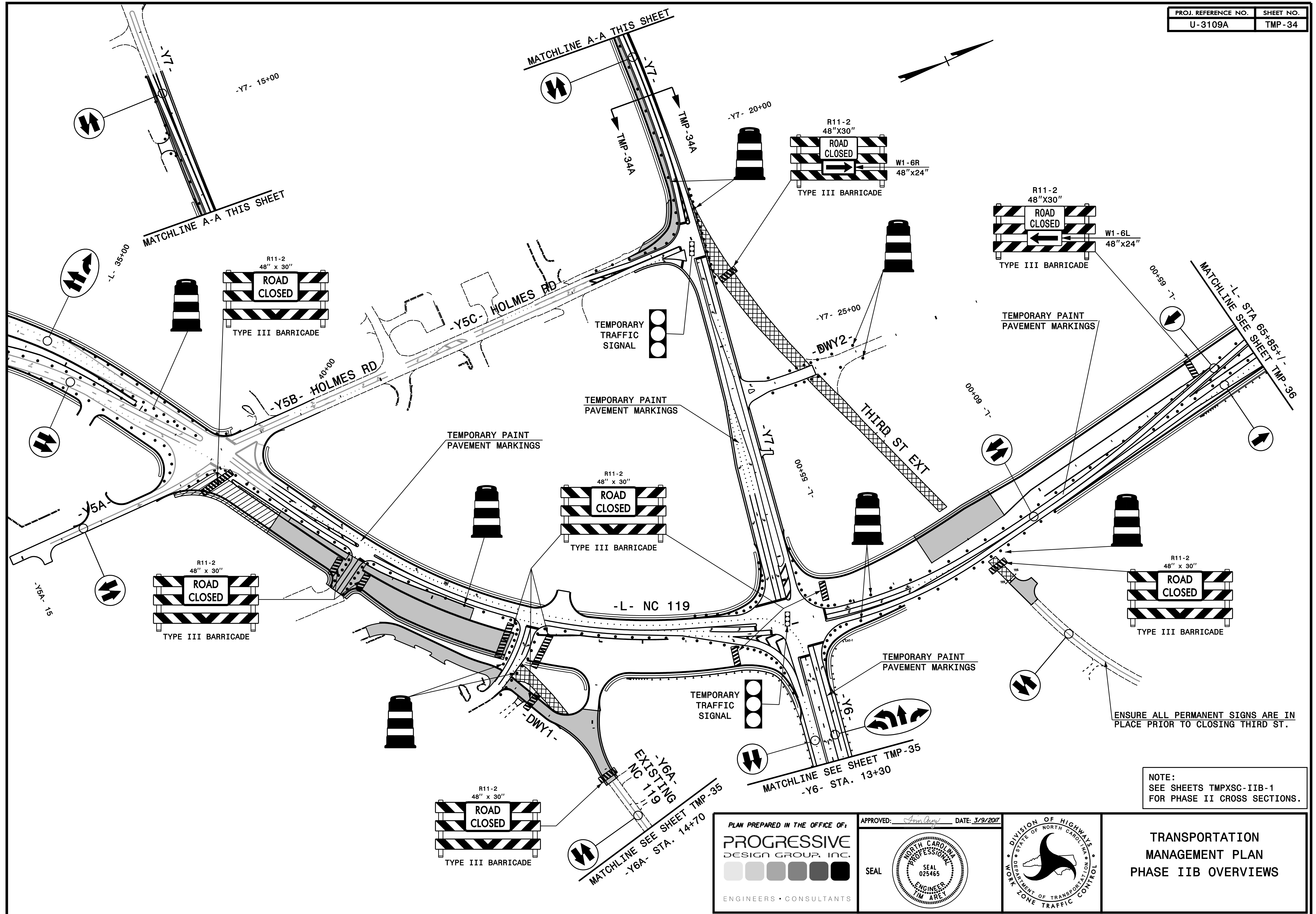
SEAL



**TRANSPORTATION
MANAGEMENT PLAN
PHASE IIA DETAILS**

MATCHLINE SEE SHEET TMP-32
STA. 32+00+/-

-Y5A- 15



ENSURE ALL PERMANENT SIGNS ARE IN PLACE PRIOR TO CLOSING THIRD ST.

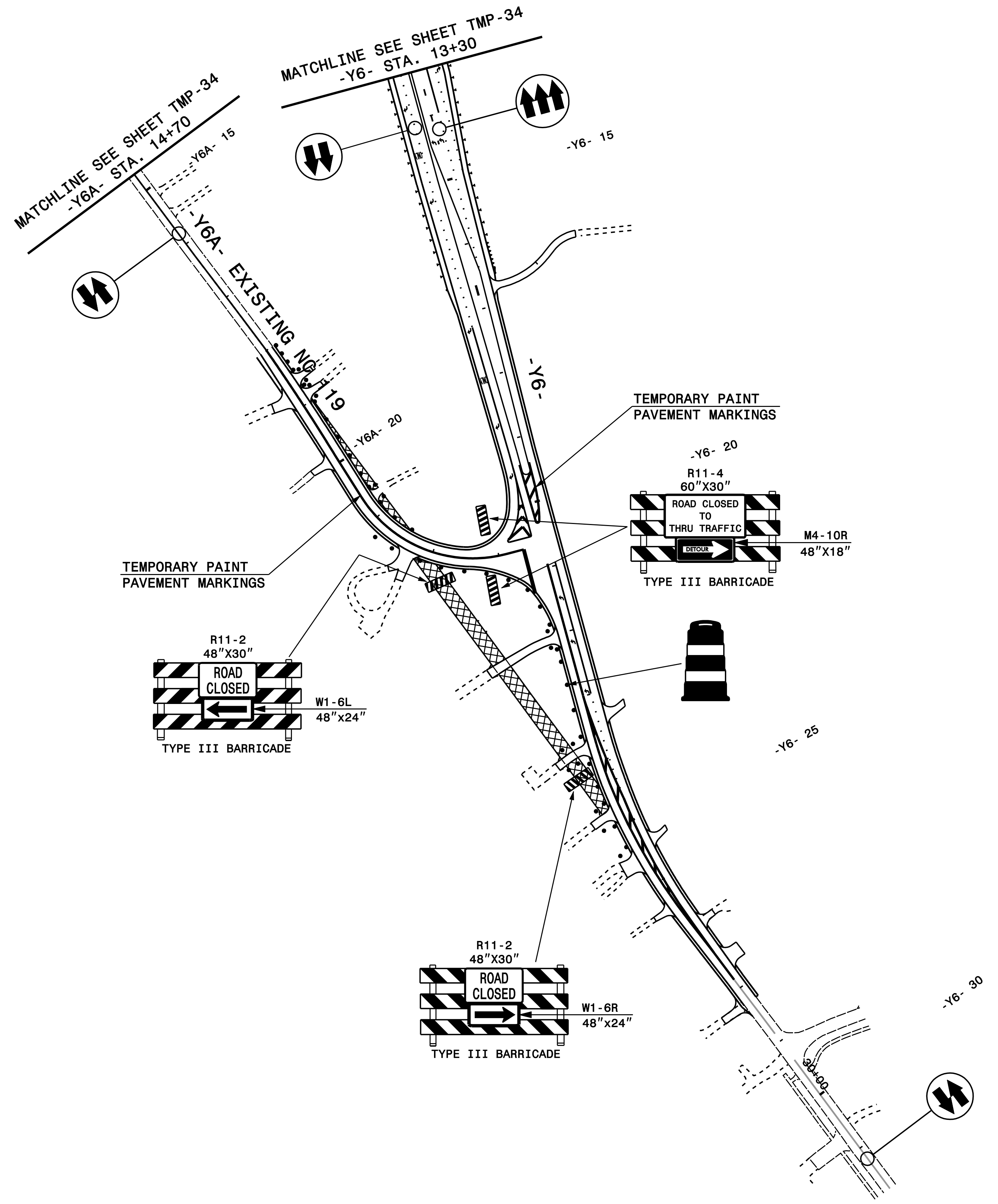
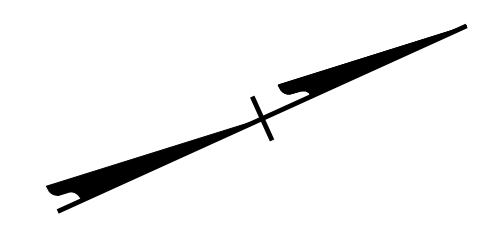
NOTE:
SEE SHEETS TMPXSC-IIB-1
FOR PHASE II CROSS SECTIONS.

PLAN PREPARED IN THE OFFICE OF:
PROGRESSIVE DESIGN GROUP, INC.
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APPROVED: *[Signature]* DATE: 3/9/2017
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NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 025465
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

**TRANSPORTATION MANAGEMENT PLAN
PHASE IIB OVERVIEWS**

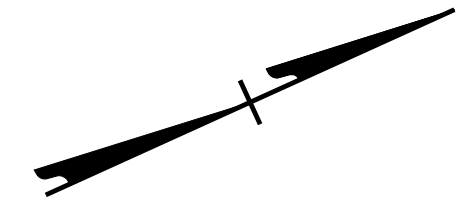
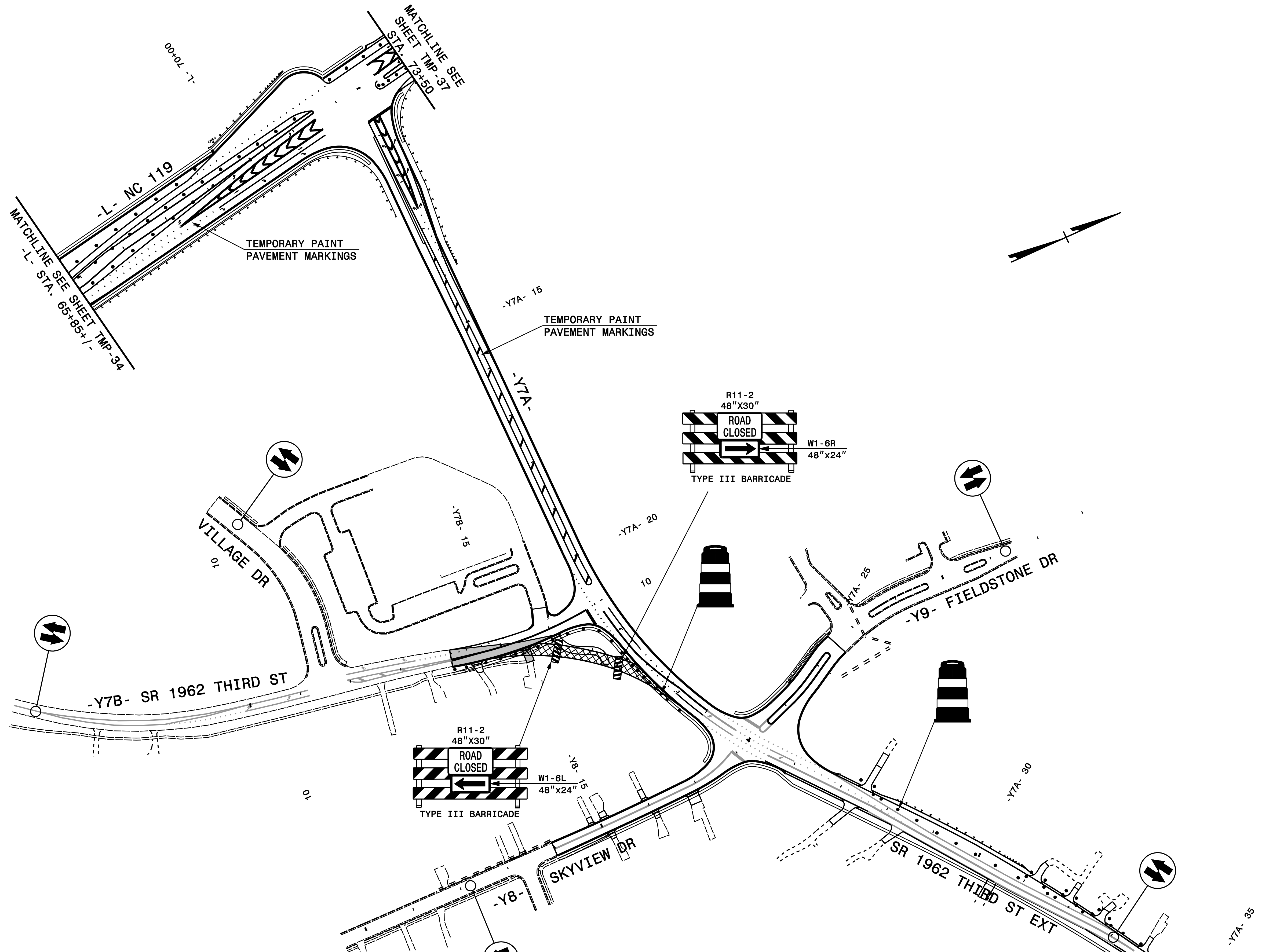


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**TRANSPORTATION
 MANAGEMENT PLAN
 PHASE IIB OVERVIEWS**



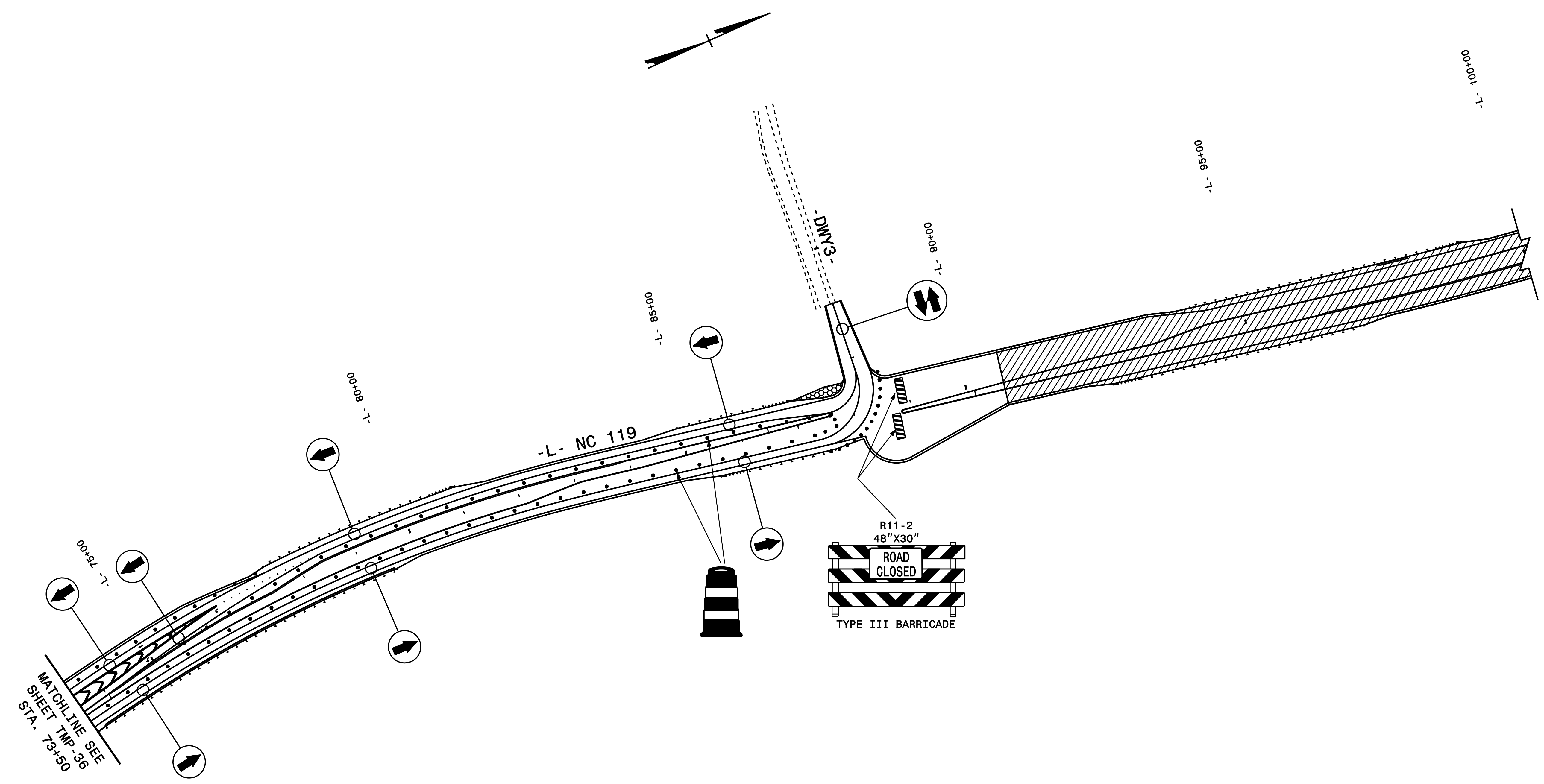
PLAN PREPARED IN THE OFFICE OF:
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TRANSPORTATION MANAGEMENT PLAN
PHASE IIB OVERVIEWS

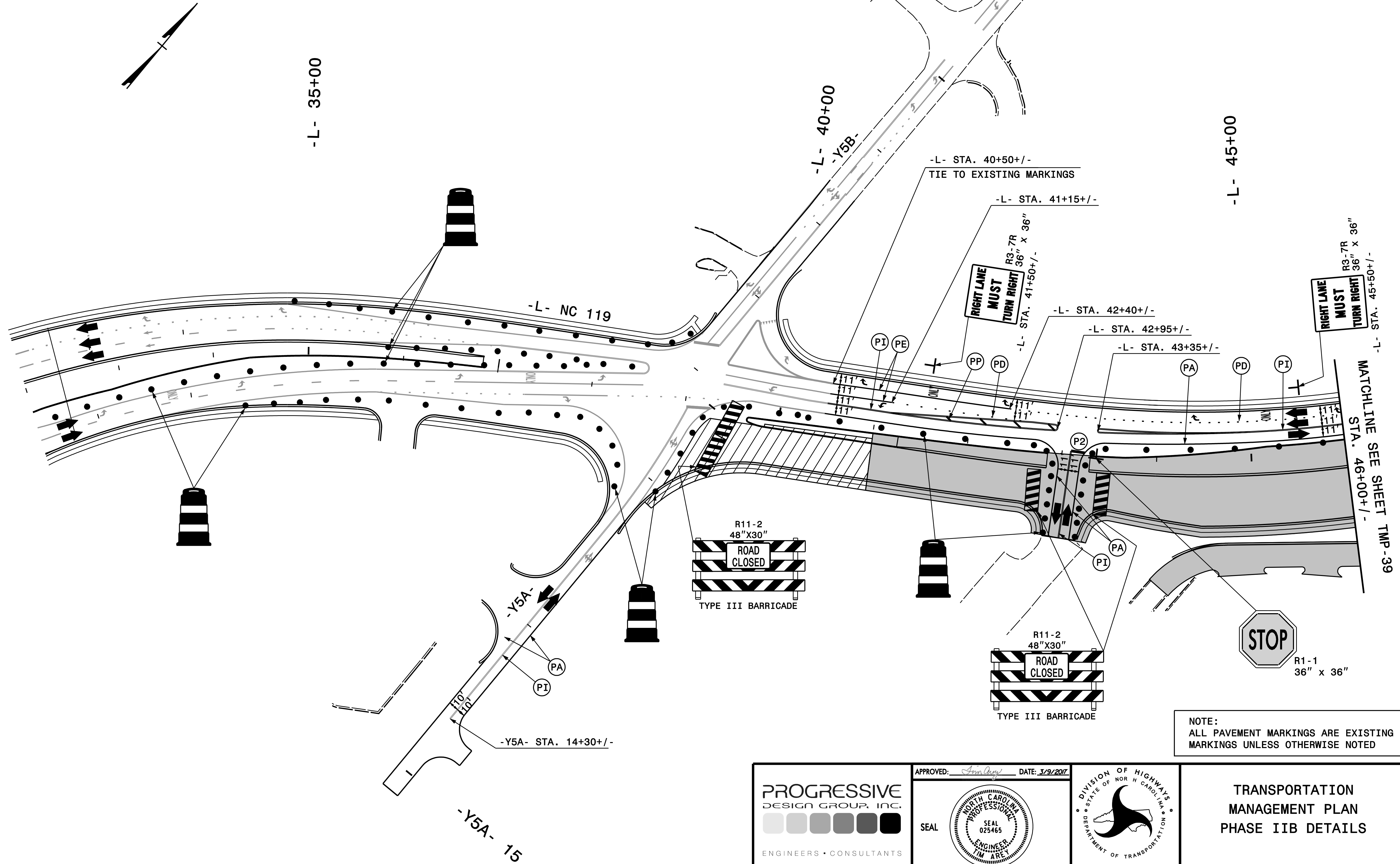


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TRANSPORTATION
 MANAGEMENT PLAN
 PHASE IIB OVERVIEWS



NOTE:
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MARKINGS UNLESS OTHERWISE NOTED

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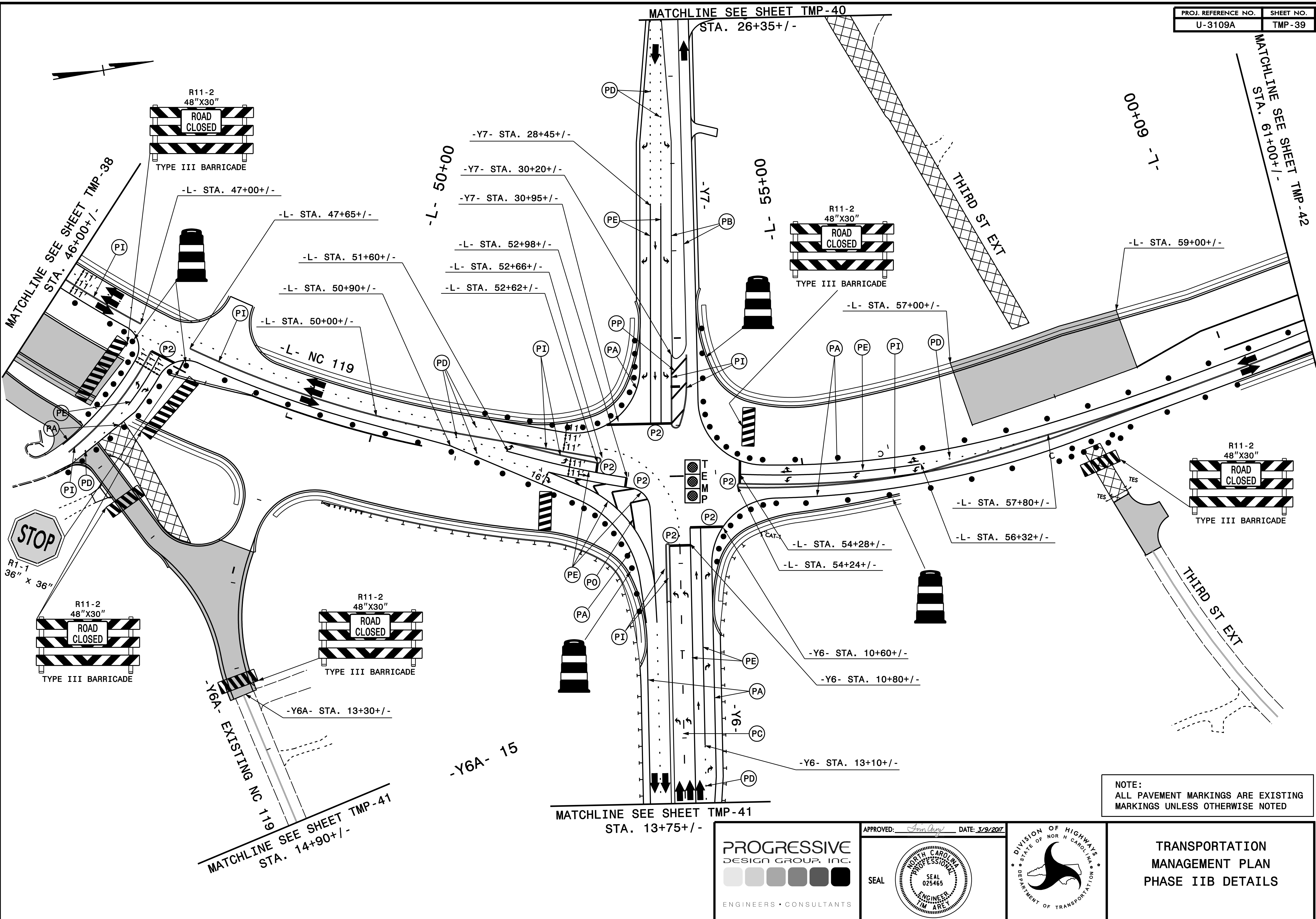
APPROVED: *[Signature]* DATE: 3/9/2017

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

**TRANSPORTATION
MANAGEMENT PLAN
PHASE IIB DETAILS**



NOTE:
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MARKINGS UNLESS OTHERWISE NOTED

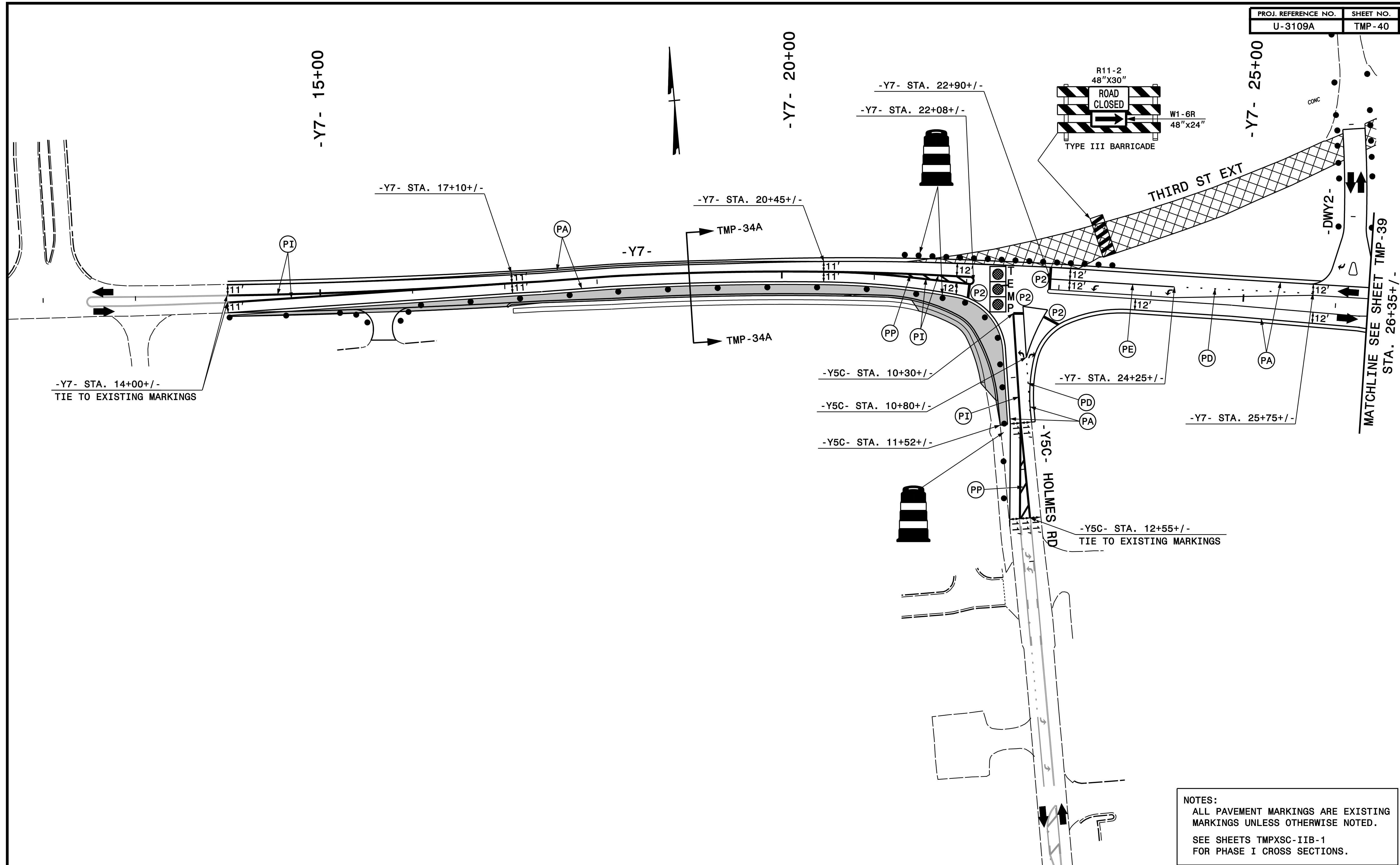
PROGRESSIVE
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APPROVED: *[Signature]* DATE: 3/9/2017

SEAL

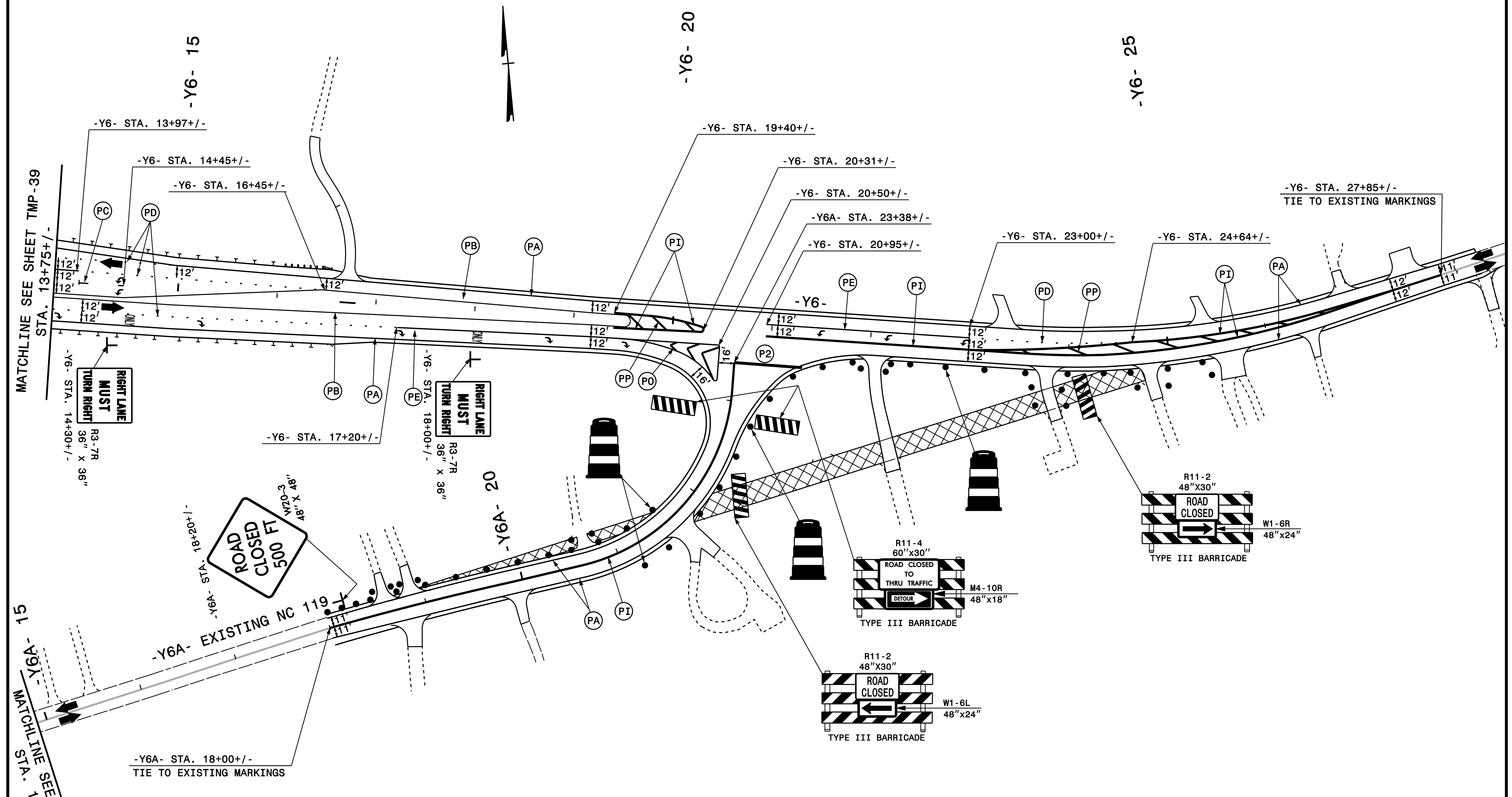


**TRANSPORTATION
MANAGEMENT PLAN
PHASE IIB DETAILS**



NOTES:
 ALL PAVEMENT MARKINGS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED.
 SEE SHEETS TMPXSC-IIB-1 FOR PHASE I CROSS SECTIONS.

	APPROVED: <i>[Signature]</i> DATE: 3/9/2017 		TRANSPORTATION MANAGEMENT PLAN PHASE IIB DETAILS
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NOTE:
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MARKINGS UNLESS OTHERWISE NOTED

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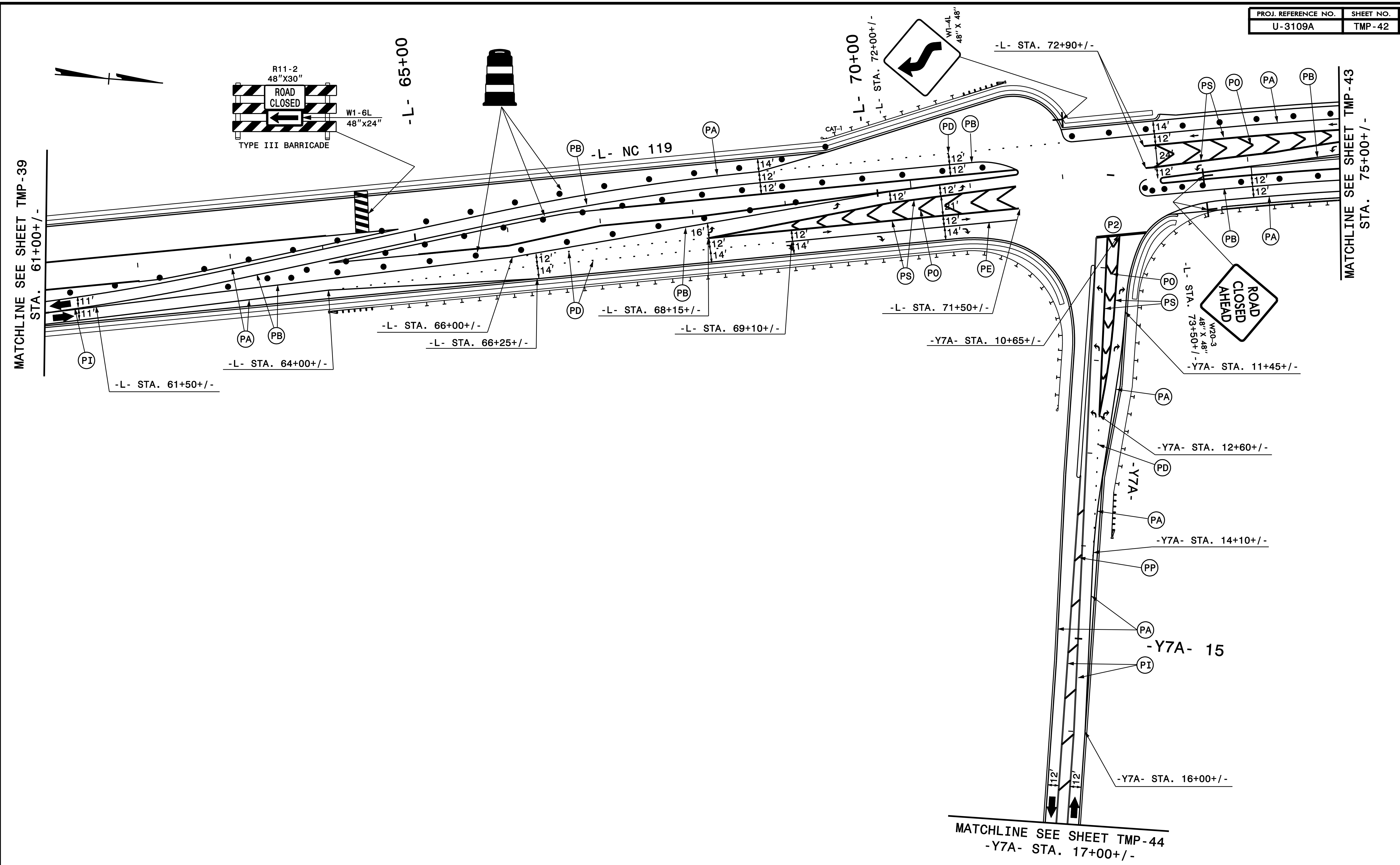
APPROVED: *[Signature]* DATE: 3/9/2017

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ENGINEER
SEAL
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DEPARTMENT OF TRANSPORTATION

TRANSPORTATION
MANAGEMENT PLAN
PHASE IIB DETAILS



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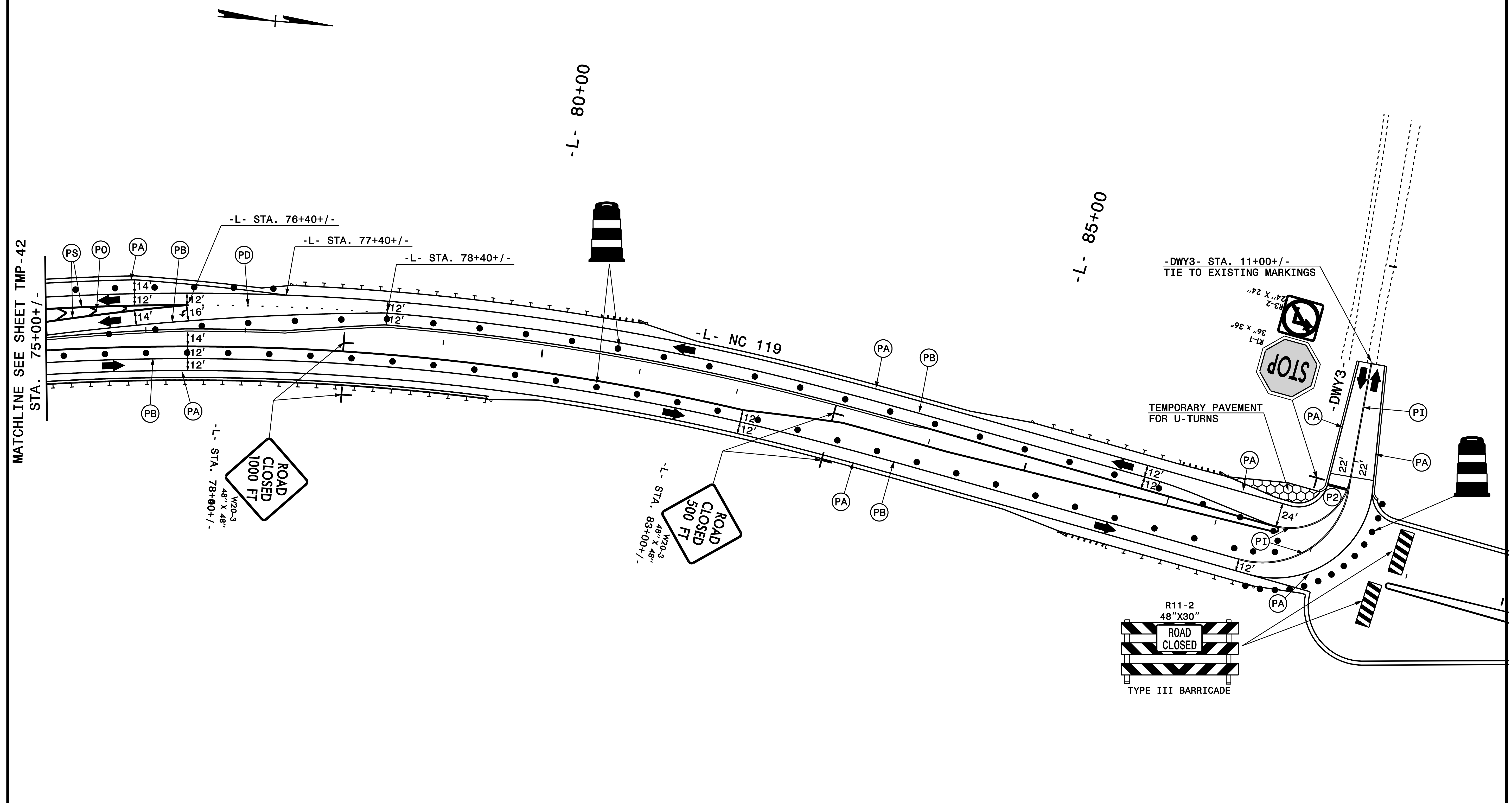
APPROVED: *[Signature]* DATE: 3/9/2017

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DEPARTMENT OF TRANSPORTATION

TRANSPORTATION
MANAGEMENT PLAN
PHASE IIB DETAILS

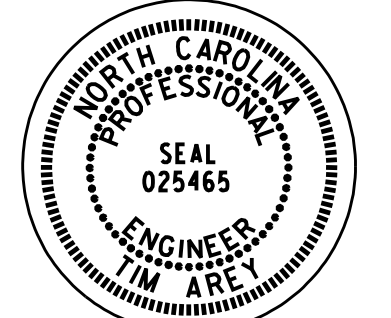
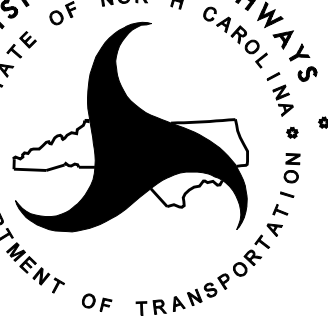


MATCHLINE SEE SHEET TMP-42
STA. 75+00+/-

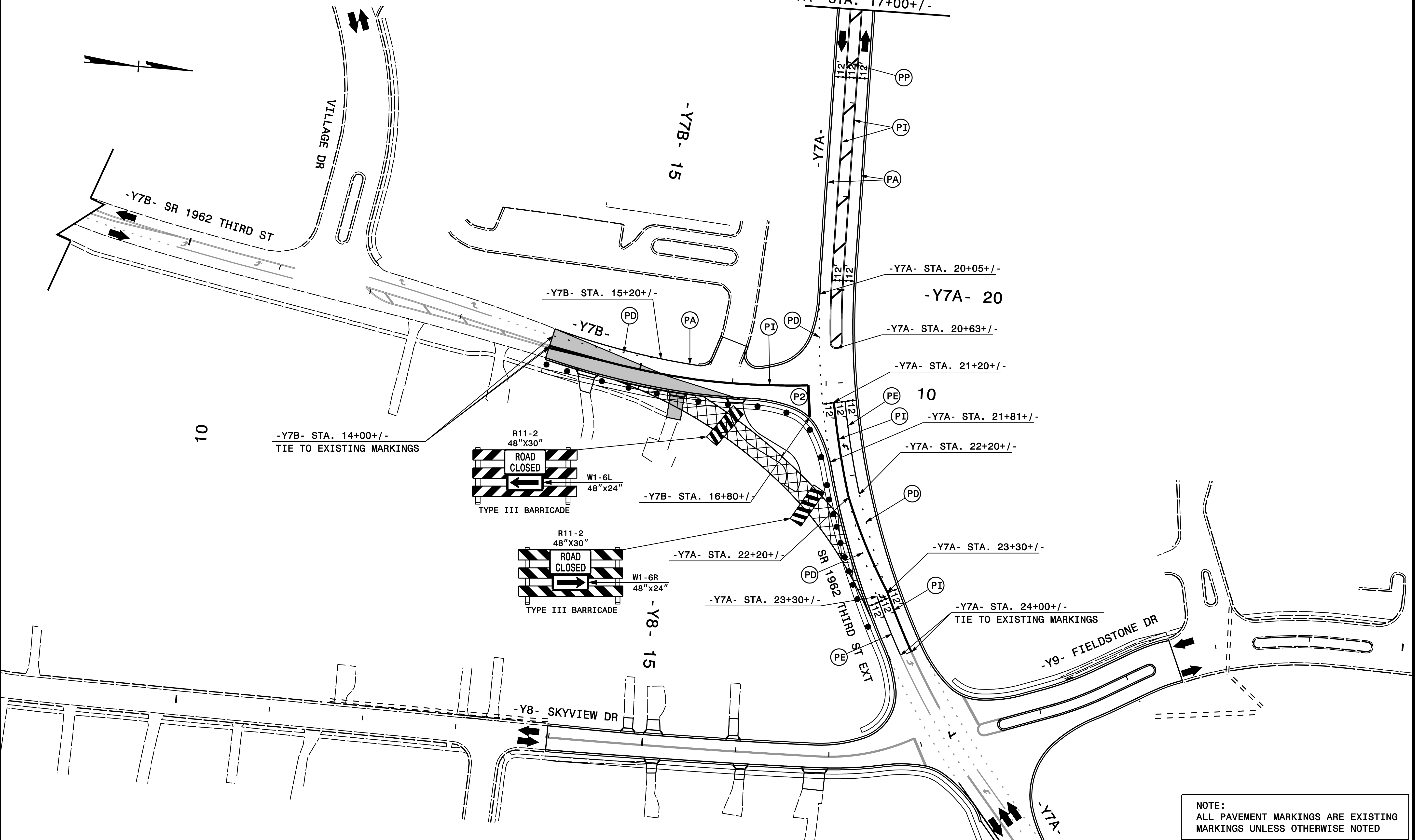
ROAD
CLOSED
1000 FT

ROAD
CLOSED
500 FT

R11-2
48" X 30"
ROAD
CLOSED
TYPE III BARRICADE

<p>PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>[Signature]</i> DATE: 3/9/2017</p> <p>SEAL</p> 		<p>TRANSPORTATION MANAGEMENT PLAN PHASE IIB DETAILS</p>
------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------	-----------------------------------------------------------------

MATCHLINE SEE SHEET TMP-42
-Y7A- STA. 17+00+/-



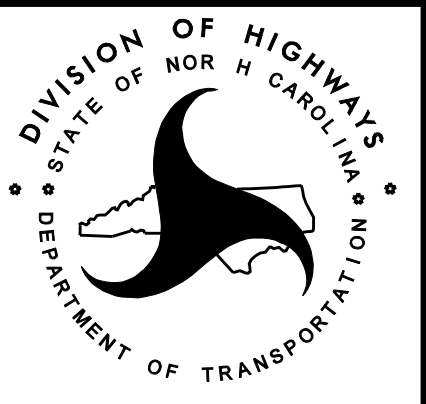
NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING
MARKINGS UNLESS OTHERWISE NOTED

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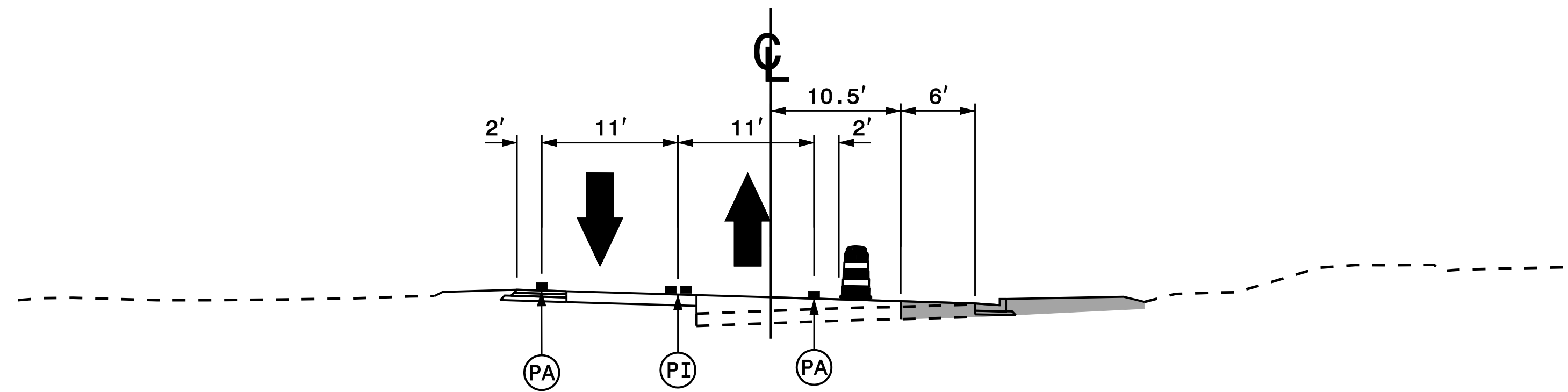
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**TRANSPORTATION
MANAGEMENT PLAN
PHASE IIB DETAILS**



SECTION TMP-34A
 -Y7- STA. 19+00 +/-

PLAN PREPARED IN THE OFFICE OF:

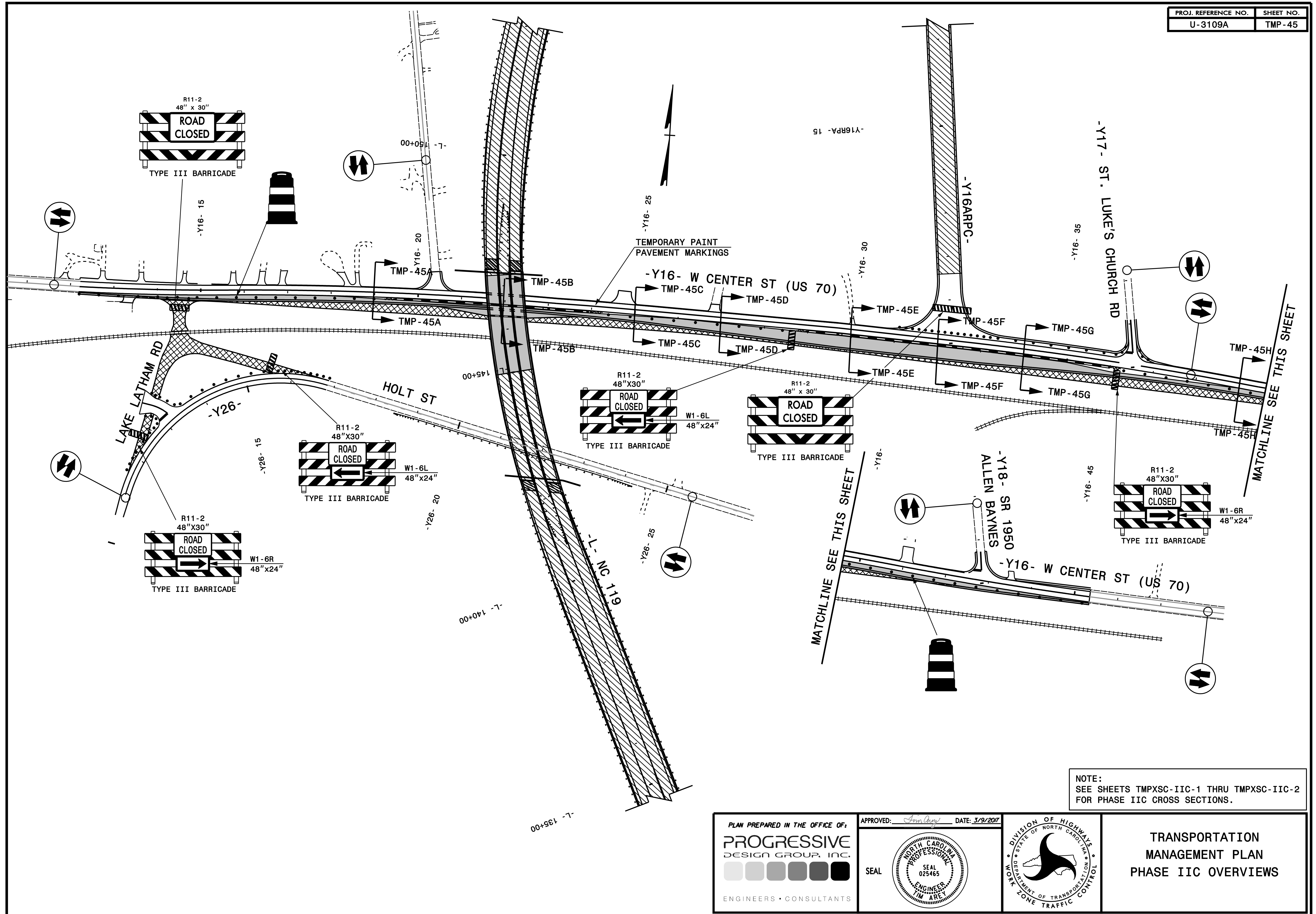
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 DESIGN GROUP, INC.

ENGINEERS • CONSULTANTS

APPROVED: *Jim Gray* DATE: 3/9/2017

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TRANSPORTATION
 MANAGEMENT PLAN
 CROSS SECTIONS
 PHASE IIB



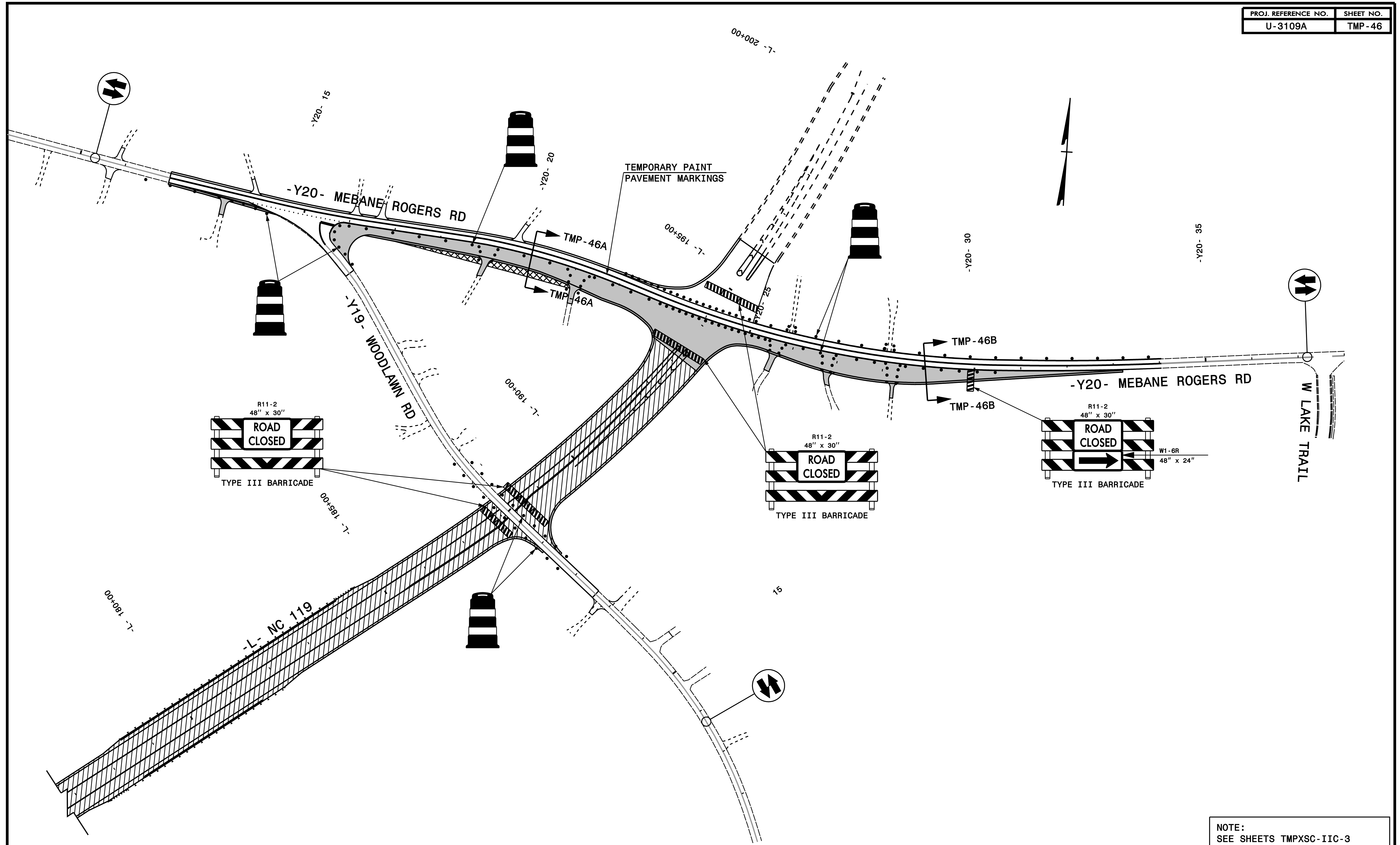
NOTE:
SEE SHEETS TMPXSC-IIC-1 THRU TMPXSC-IIC-2
FOR PHASE IIC CROSS SECTIONS.

PLAN PREPARED IN THE OFFICE OF:
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

TRANSPORTATION
MANAGEMENT PLAN
PHASE IIC OVERVIEWS



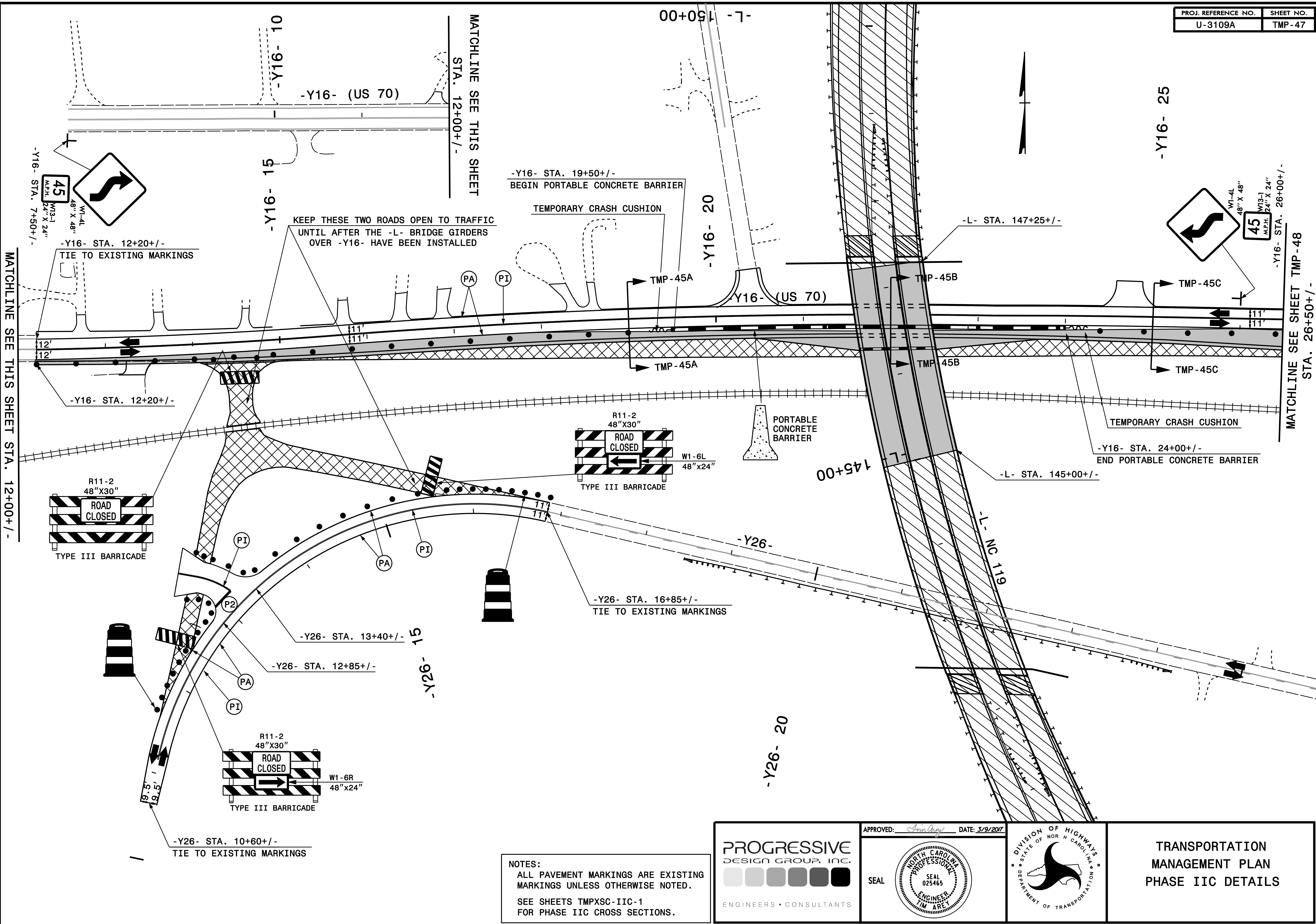
NOTE:
SEE SHEETS TMPXSC-IIC-3
FOR PHASE IIC CROSS SECTIONS.

PLAN PREPARED IN THE OFFICE OF:
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**TRANSPORTATION
MANAGEMENT PLAN
PHASE IIC OVERVIEWS**



MATCHLINE SEE THIS SHEET STA. 12+00+/-

MATCHLINE SEE SHEET TMP-48 STA. 26+50+/-

NOTES:
 ALL PAVEMENT MARKINGS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED.
 SEE SHEETS TMPXSC-IIC-1 FOR PHASE IIC CROSS SECTIONS.

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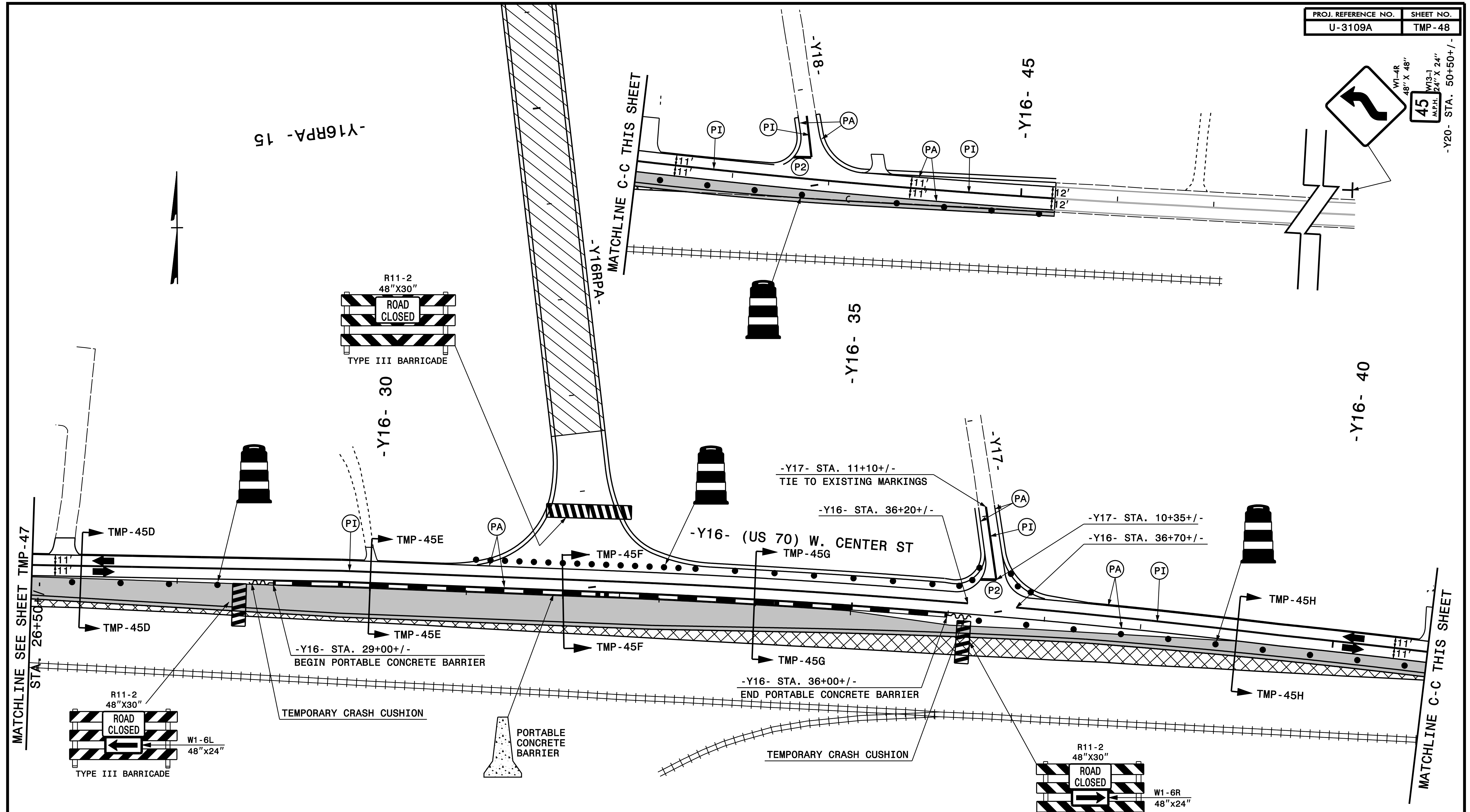
APPROVED: *[Signature]* DATE: 3/9/2017

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 DEPARTMENT OF TRANSPORTATION

TRANSPORTATION MANAGEMENT PLAN
PHASE IIC DETAILS



NOTES:
 ALL PAVEMENT MARKINGS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED.
 SEE SHEETS TMPXSC-IIC-1 THRU TMPXSC-IIC-2 FOR PHASE IIC CROSS SECTIONS.

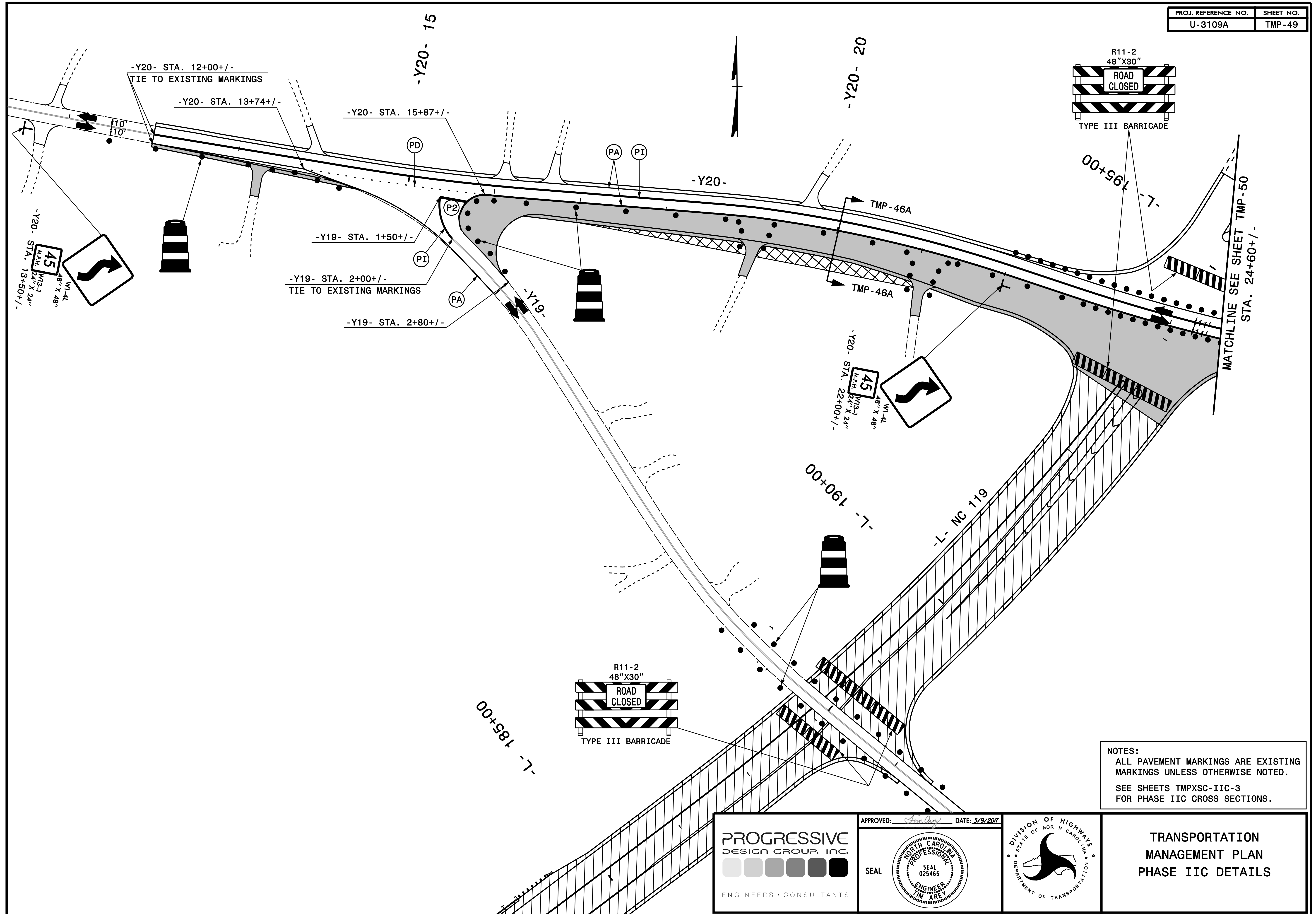
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 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 025465

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION

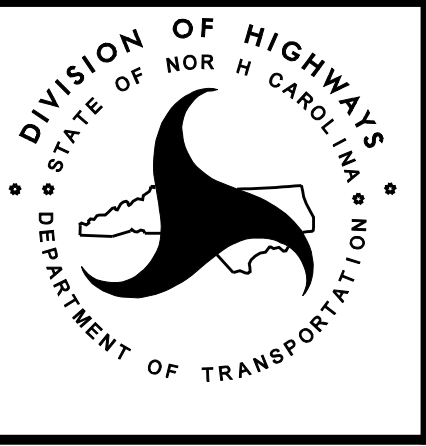
TRANSPORTATION
 MANAGEMENT PLAN
 PHASE IIC DETAILS



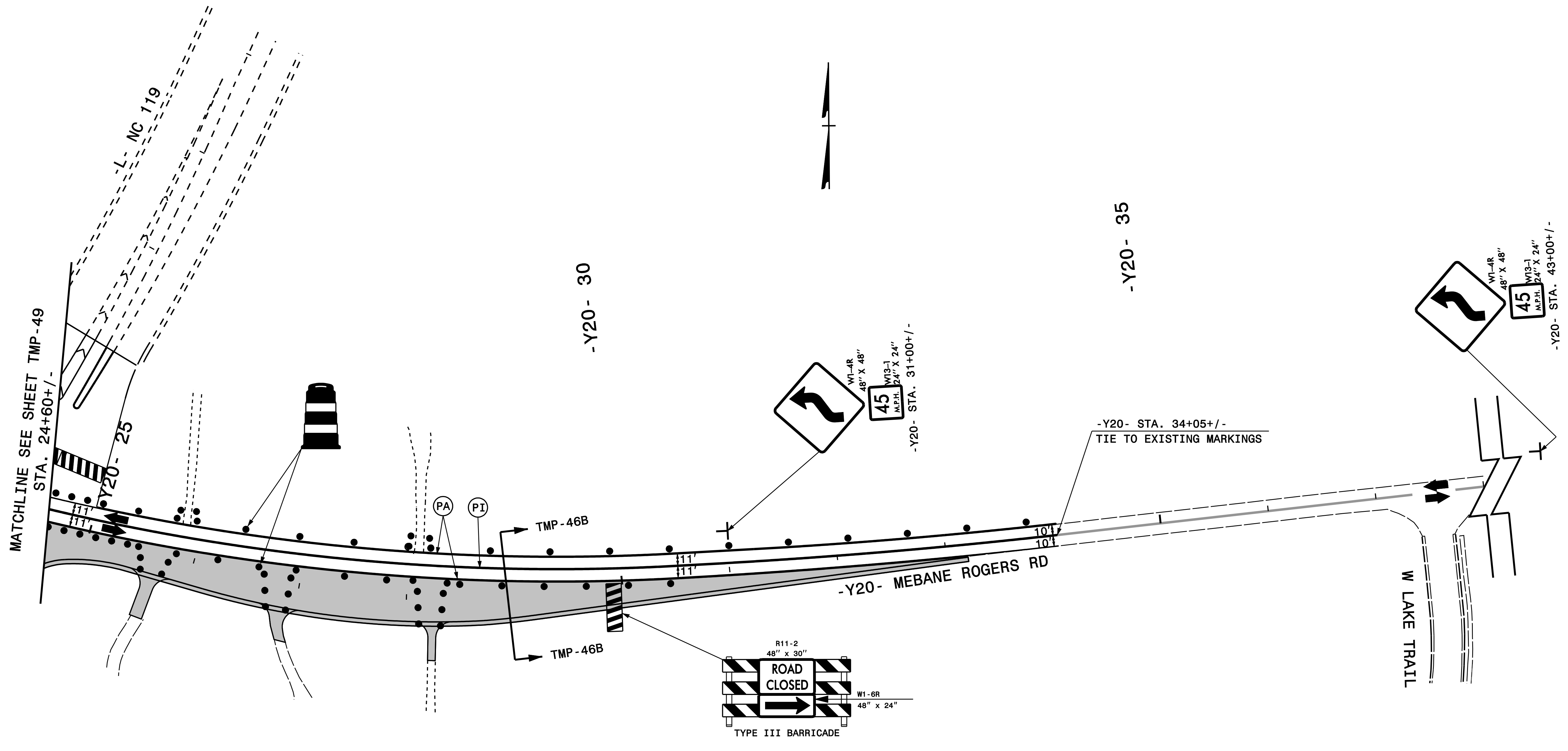
NOTES:
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 SEE SHEETS TMPXSC-IIC-3 FOR PHASE IIC CROSS SECTIONS.

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TRANSPORTATION MANAGEMENT PLAN
PHASE IIC DETAILS



NOTE:
SEE SHEET TMPXSC-IIC-3
FOR PHASE IIC CROSS SECTIONS.

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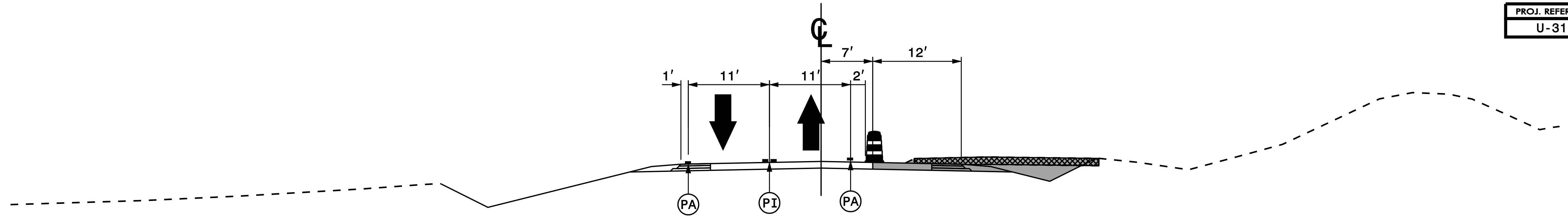
APPROVED: *[Signature]* DATE: 3/9/2017

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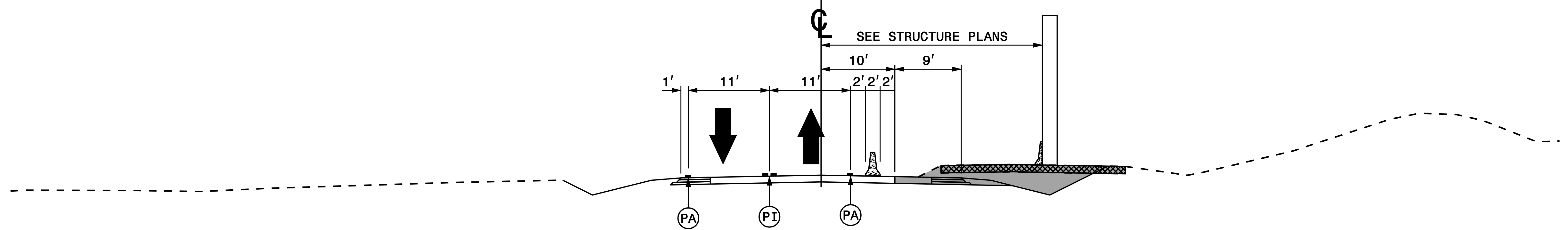
NORTH CAROLINA
PROFESSIONAL
ENGINEER
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

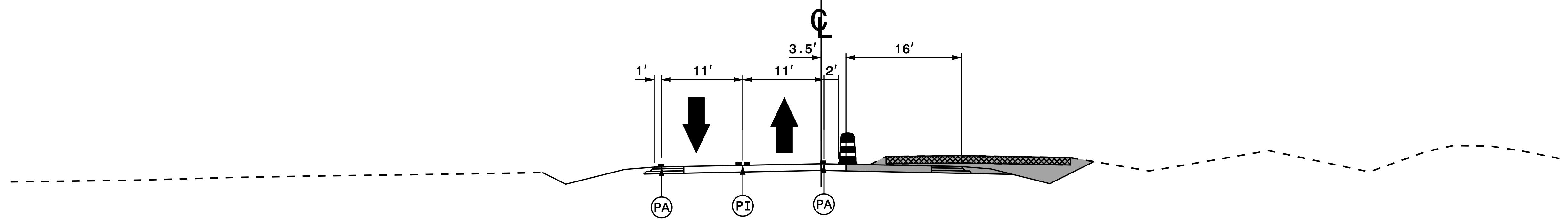
TRANSPORTATION
MANAGEMENT PLAN
PHASE IIC DETAILS



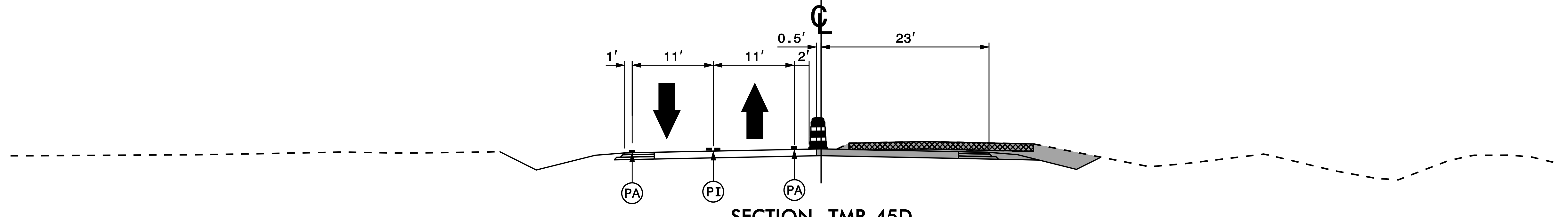
SECTION TMP-45A
-Y16- STA. 19+00 +/-



SECTION TMP-45B
-Y16- STA. 22+00 +/-



SECTION TMP-45C
-Y16- STA. 25+00 +/-



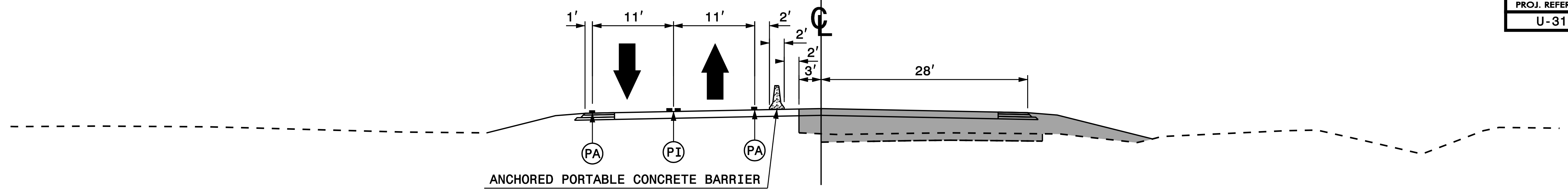
SECTION TMP-45D
-Y16- STA. 27+00 +/-

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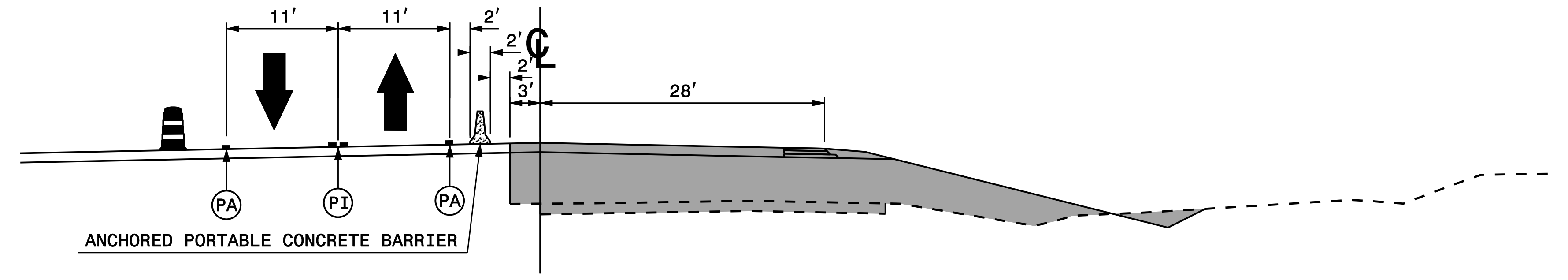
APPROVED: *Tommy* DATE: 3/9/2017

SEAL

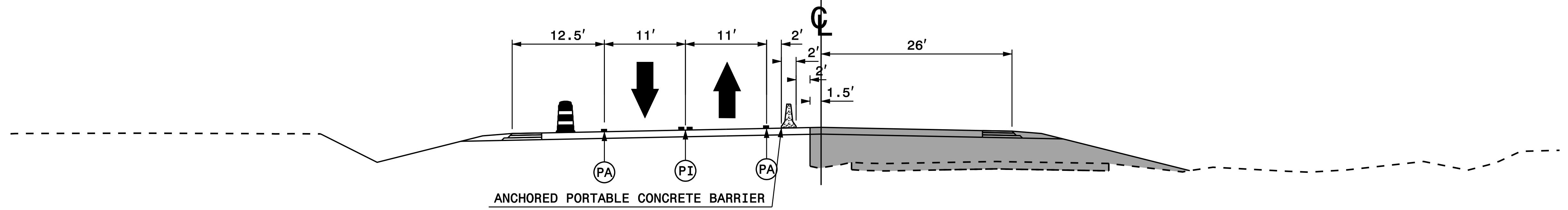
TRANSPORTATION
MANAGEMENT PLAN
CROSS SECTIONS
PHASE IIC



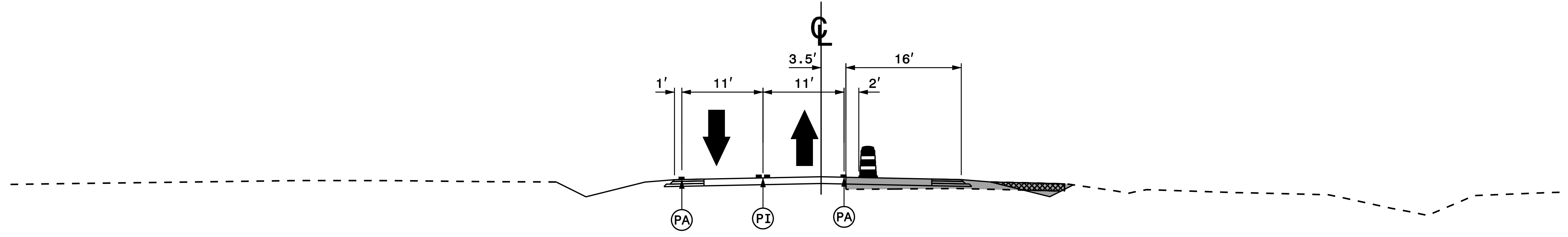
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-Y16- STA. 30+00 +/-



SECTION TMP-45F
-Y16- STA. 32+00 +/-



SECTION TMP-45G
-Y16- STA. 34+00 +/-



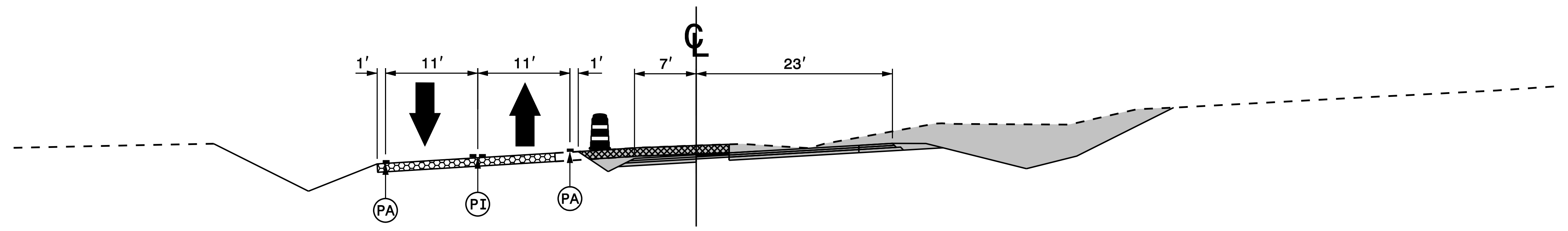
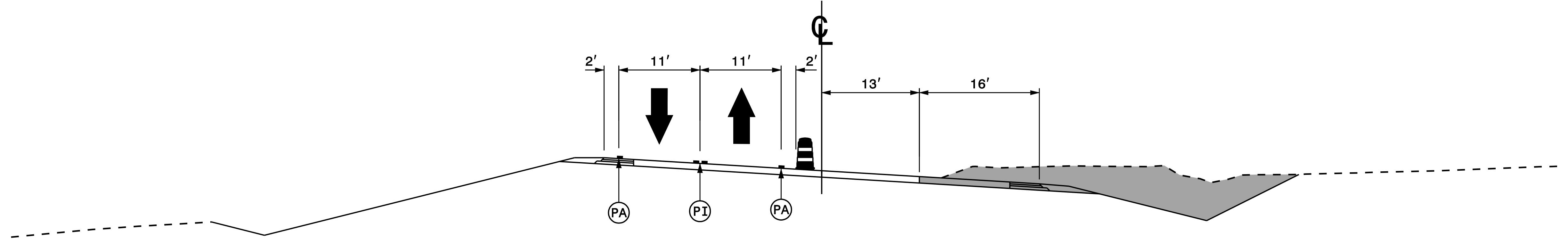
SECTION TMP-45H
-Y16- STA. 39+00 +/-

PLAN PREPARED IN THE OFFICE OF:
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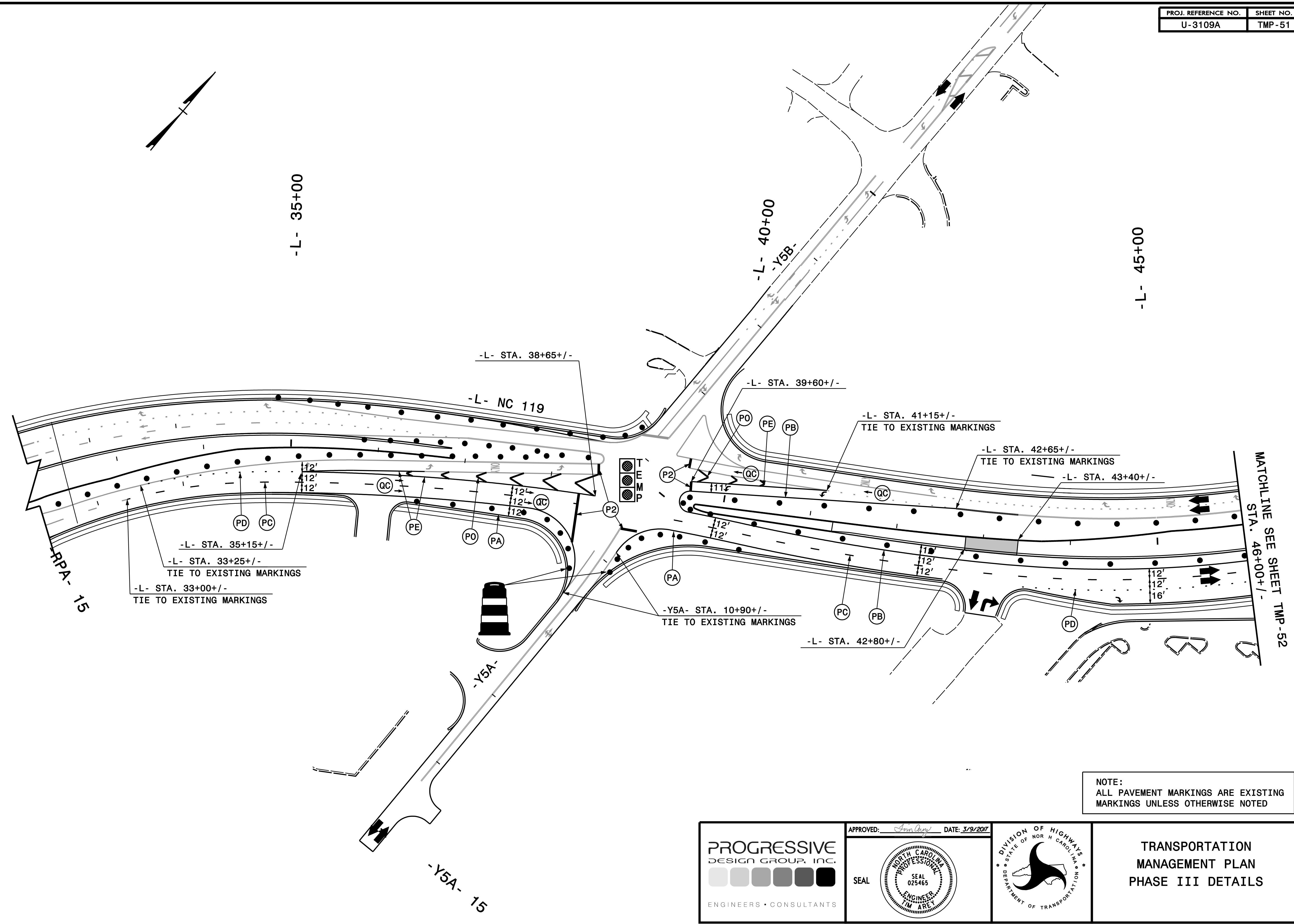
APPROVED: *Ann Gray* DATE: 3/9/2017

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TRANSPORTATION
MANAGEMENT PLAN
CROSS SECTIONS
PHASE IIC



<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Jim Gray</i> DATE: 3/9/2017</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN CROSS SECTIONS PHASE IIC</p>
------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------	--	----------------------------------------------------------------------------



-L- STA. 35+15+/-
 -L- STA. 33+25+/-
 TIE TO EXISTING MARKINGS
 -L- STA. 33+00+/-
 TIE TO EXISTING MARKINGS

-L- STA. 38+65+/-

-L- NC 119

-L- 40+00
 -Y5B-

-L- STA. 39+60+/-

-L- STA. 41+15+/-
 TIE TO EXISTING MARKINGS

-L- STA. 42+65+/-
 TIE TO EXISTING MARKINGS

-L- STA. 43+40+/-

-Y5A- STA. 10+90+/-
 TIE TO EXISTING MARKINGS

-L- STA. 42+80+/-

MATCHLINE SEE SHEET TMP-52
 STA. 46+00+/-

NOTE:
 ALL PAVEMENT MARKINGS ARE EXISTING
 MARKINGS UNLESS OTHERWISE NOTED

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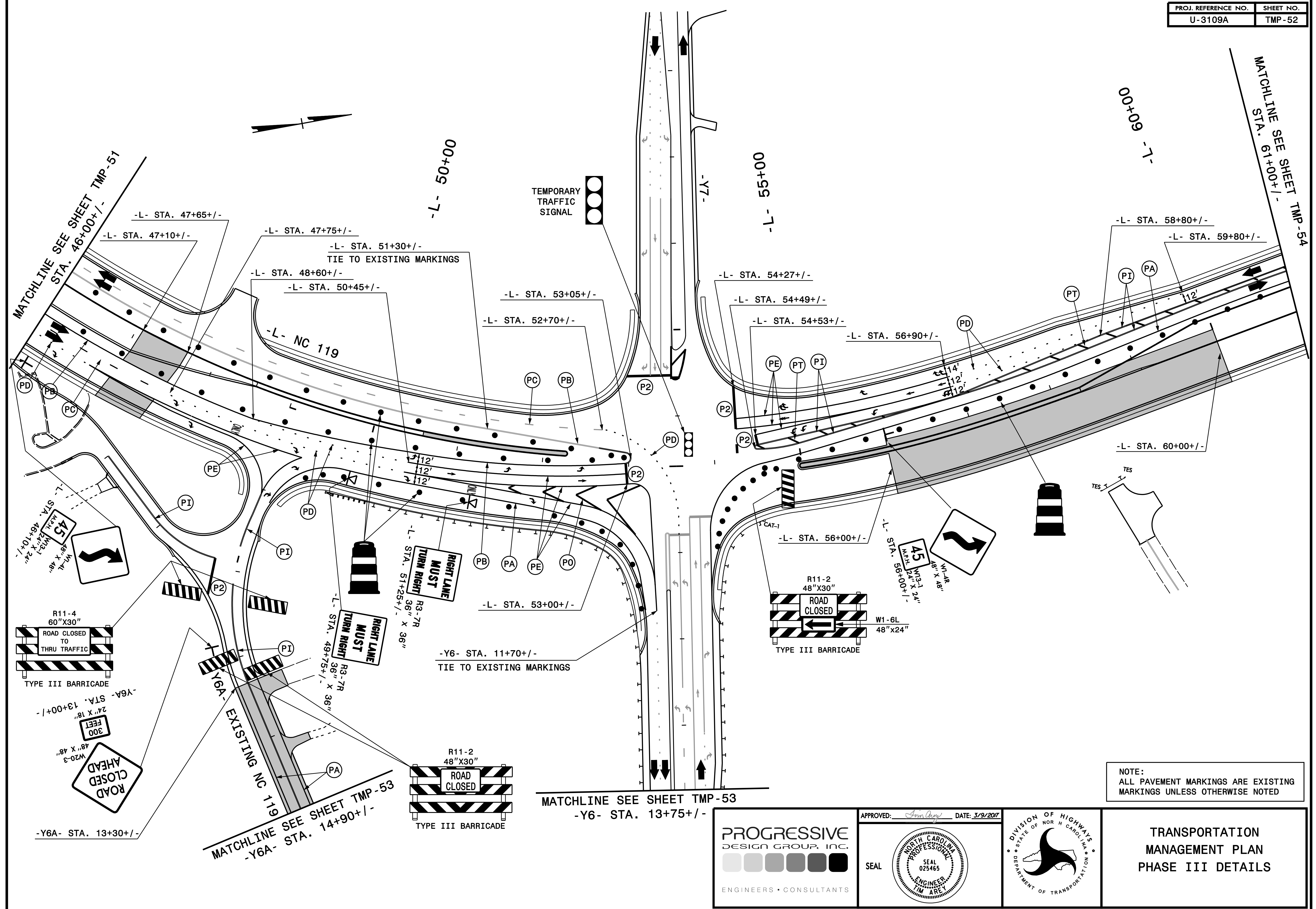
APPROVED: *[Signature]* DATE: 3/9/2017

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 SEAL
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TRANSPORTATION
 MANAGEMENT PLAN
 PHASE III DETAILS



NOTE:
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DESIGN GROUP, INC.
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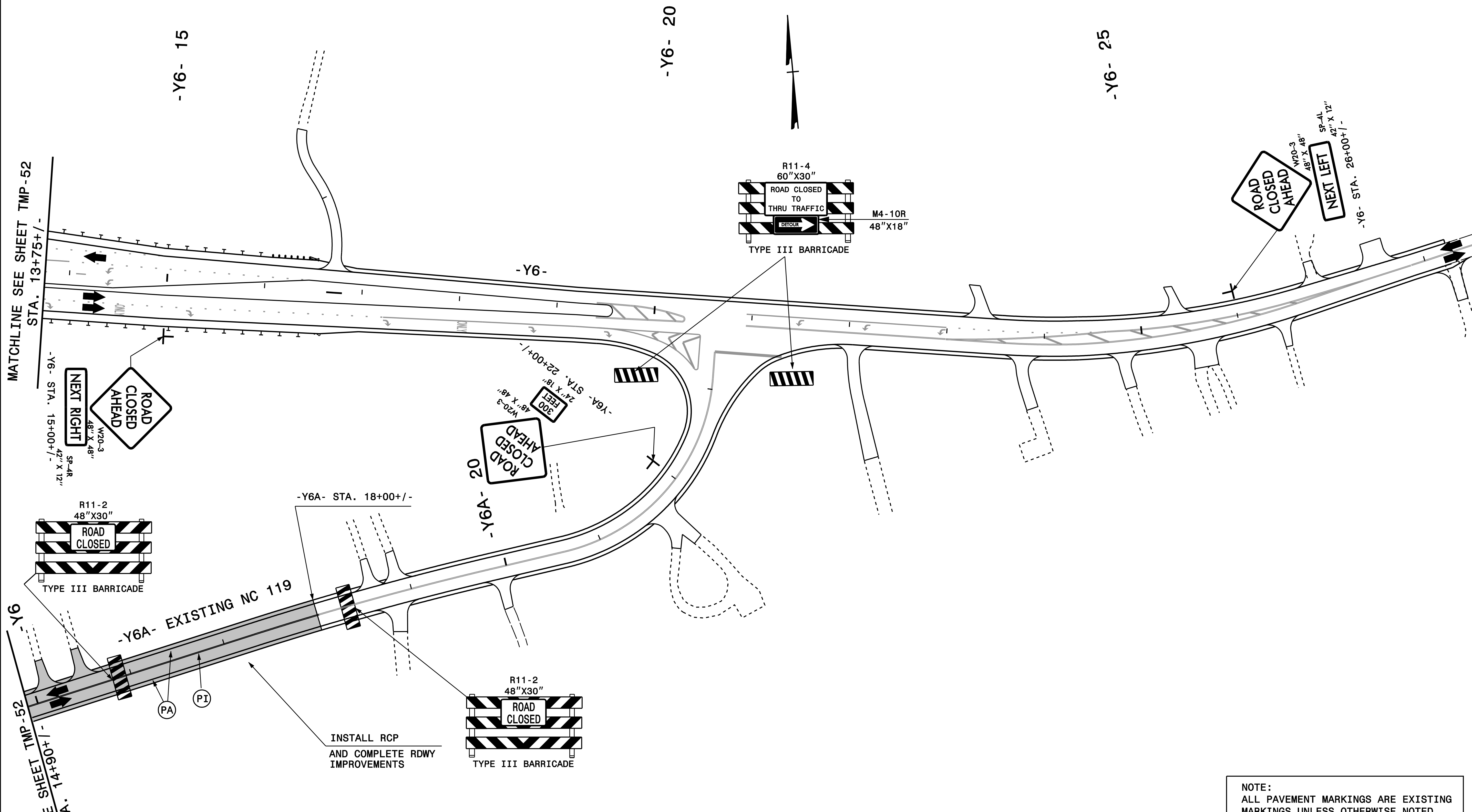
APPROVED: *Jan Day* DATE: 3/9/2017

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PROFESSIONAL
ENGINEER
TM ARE
SEAL
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

**TRANSPORTATION
MANAGEMENT PLAN
PHASE III DETAILS**



NOTE:
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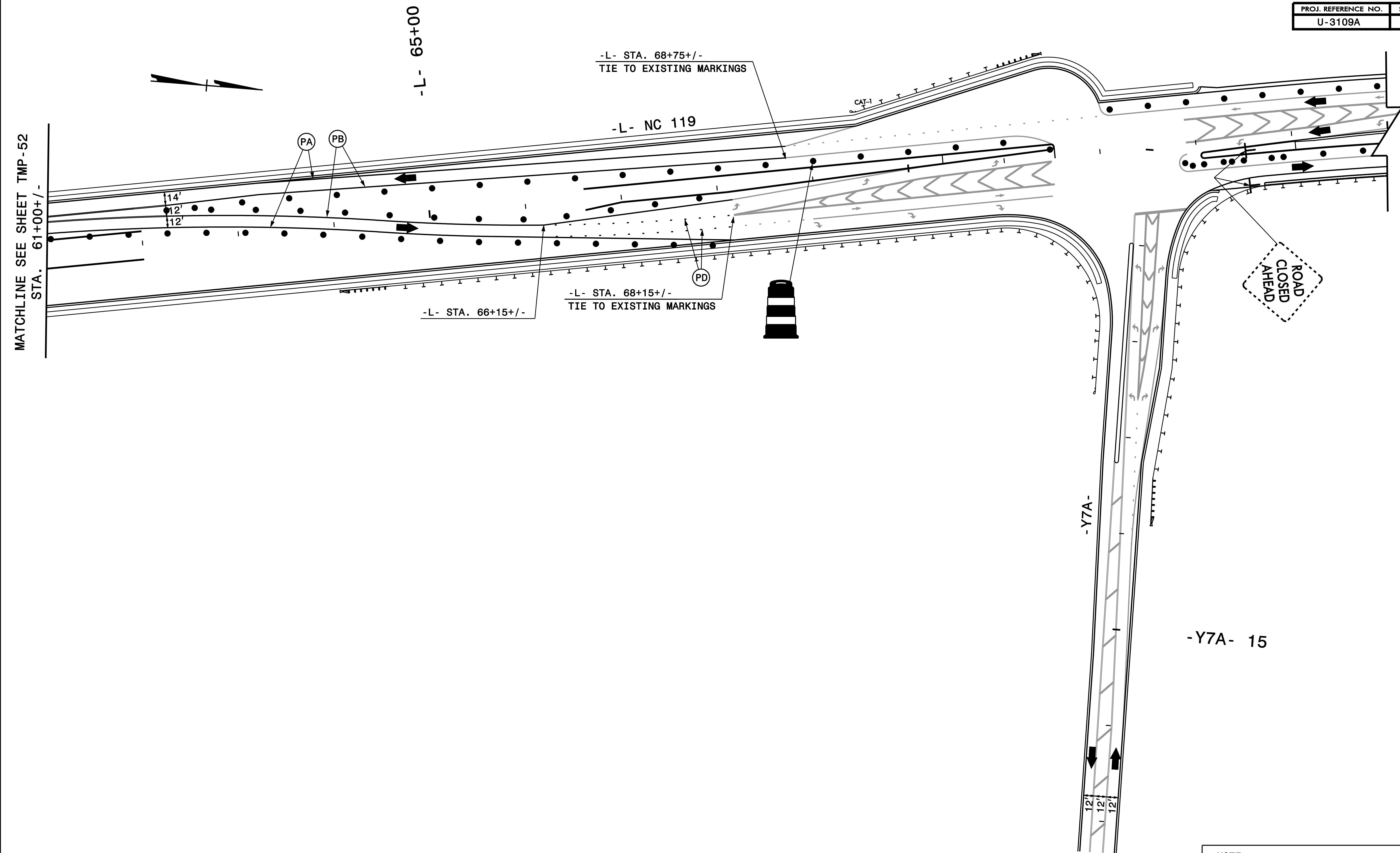
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APPROVED: *Ann Gray* DATE: 3/9/2017

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**TRANSPORTATION
MANAGEMENT PLAN
PHASE III DETAILS**



MATCHLINE SEE SHEET TMP-52
STA. 61+00+/-

-L- 65+00

-L- STA. 68+75+/-
TIE TO EXISTING MARKINGS

-L- NC 119

-L- STA. 68+15+/-
TIE TO EXISTING MARKINGS

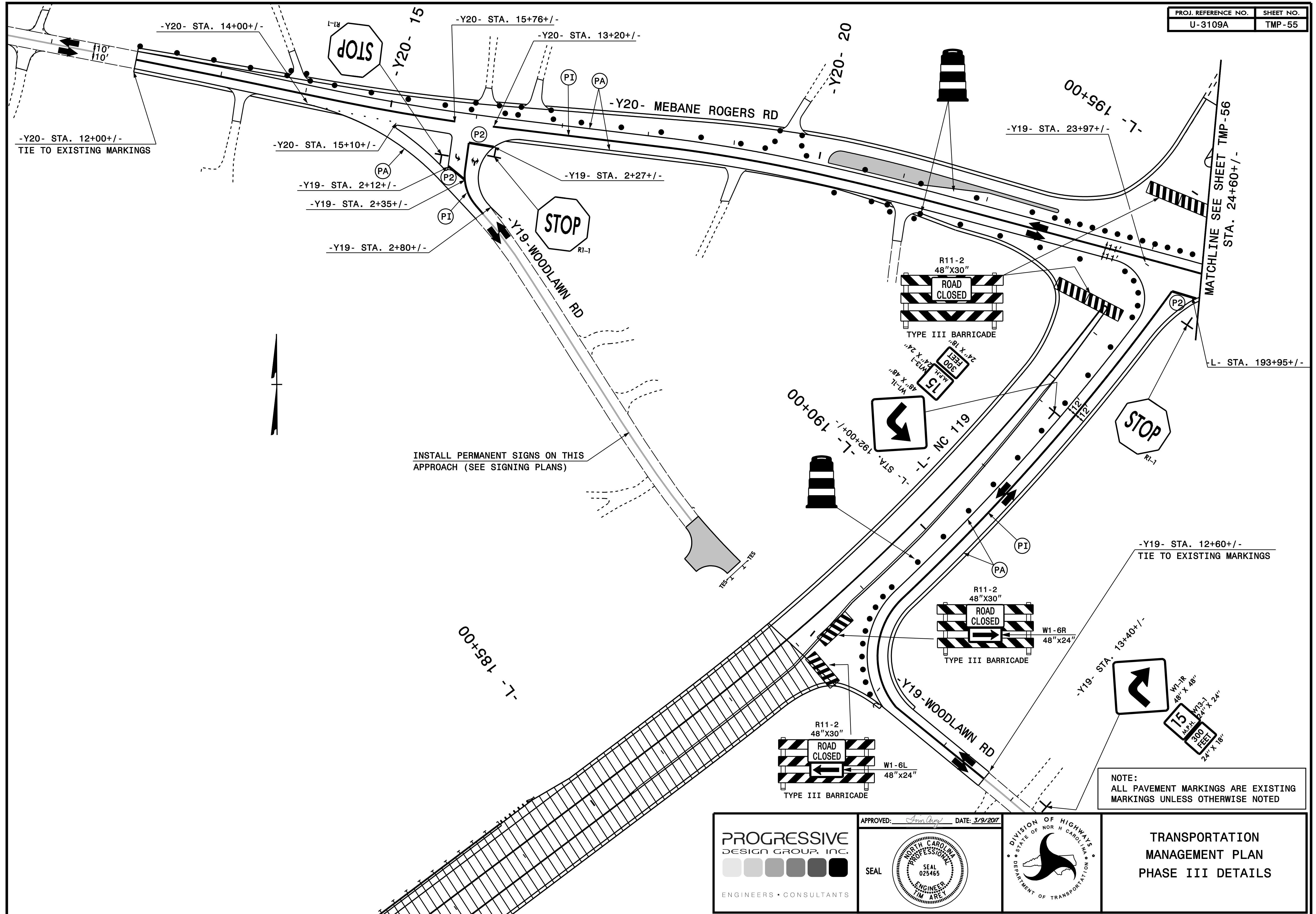
-L- STA. 66+15+/-

ROAD
CLOSED
AHEAD

-Y7A- 15

NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING
MARKINGS UNLESS OTHERWISE NOTED

	<p>APPROVED: <i>[Signature]</i> DATE: 3/9/2017</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE III DETAILS</p>
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INSTALL PERMANENT SIGNS ON THIS APPROACH (SEE SIGNING PLANS)

NOTE:
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PROGRESSIVE
DESIGN GROUP, INC.
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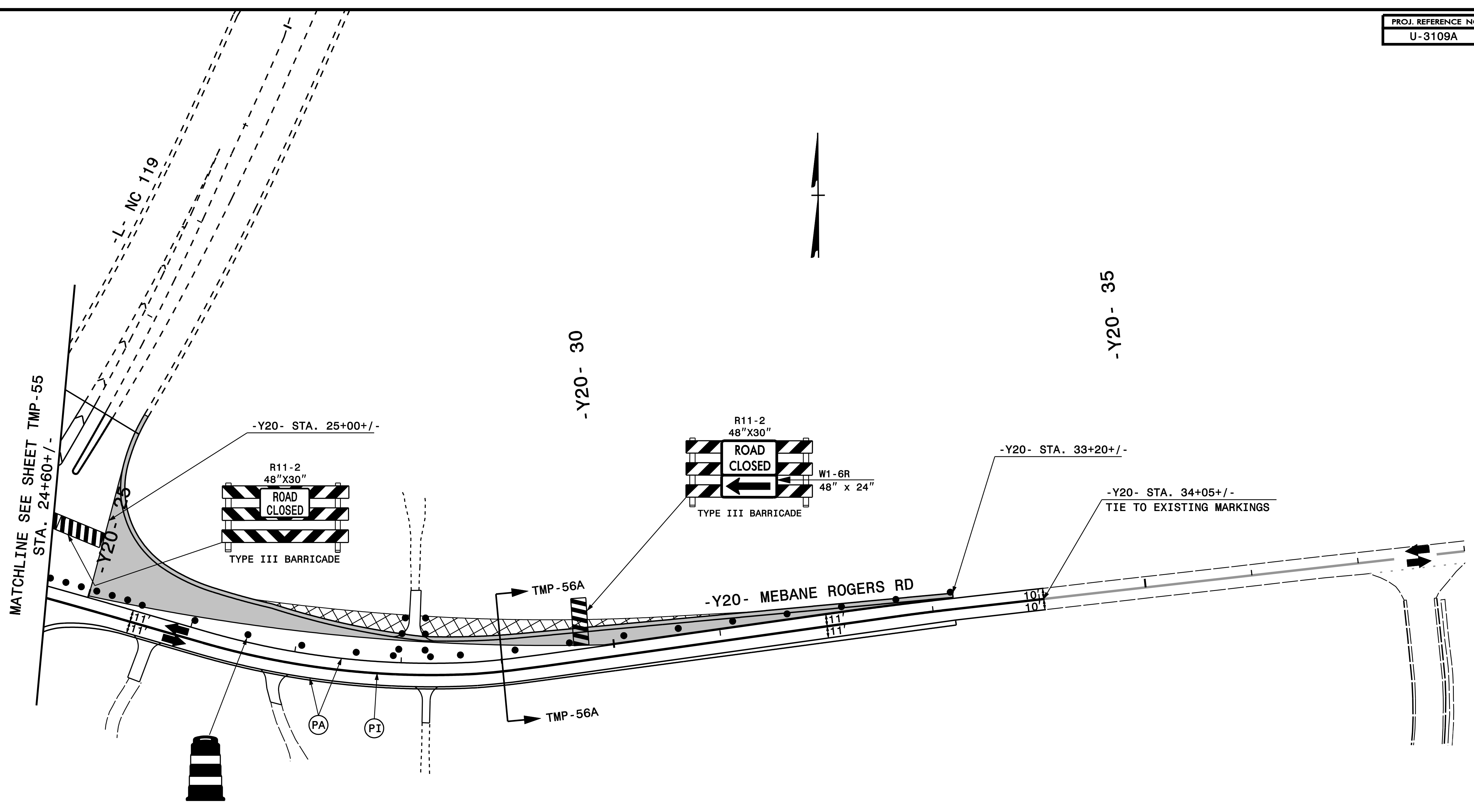
APPROVED: *[Signature]* DATE: 3/9/2017

SEAL

PROFESSIONAL ENGINEER
SEAL 025465
M. ARE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION MANAGEMENT PLAN
PHASE III DETAILS



MATCHLINE SEE SHEET TMP-55
STA. 24+60+/-

-Y20- STA. 25+00+/-

-Y20- 30

-Y20- 35

R11-2
48"x30"
ROAD
CLOSED
TYPE III BARRICADE

R11-2
48"x30"
ROAD
CLOSED
W1-6R
48" x 24"
TYPE III BARRICADE

-Y20- STA. 33+20+/-

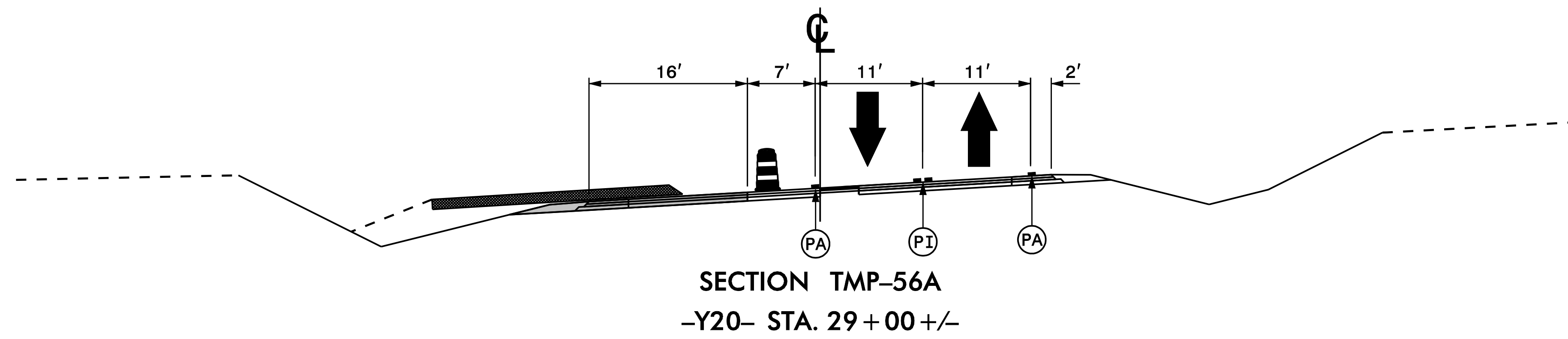
-Y20- STA. 34+05+/-
TIE TO EXISTING MARKINGS

TMP-56A

-Y20- MEBANE ROGERS RD

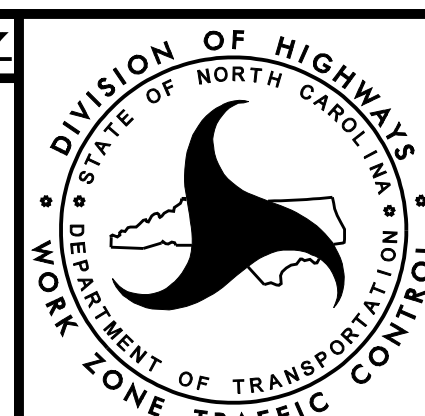
NOTES:
ALL PAVEMENT MARKINGS ARE EXISTING
MARKINGS UNLESS OTHERWISE NOTED.
SEE SHEET TMPXSC-III-1
FOR PHASE III CROSS SECTIONS.

	<p>APPROVED: <i>[Signature]</i> DATE: 3/9/2017</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE III DETAILS</p>
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PLAN PREPARED IN THE OFFICE OF:
PROGRESSIVE
 DESIGN GROUP, INC.
 ENGINEERS • CONSULTANTS

APPROVED: *Ann Gray* DATE: 3/9/2017
 SEAL



TRANSPORTATION
 MANAGEMENT PLAN
 CROSS SECTIONS
 PHASE III