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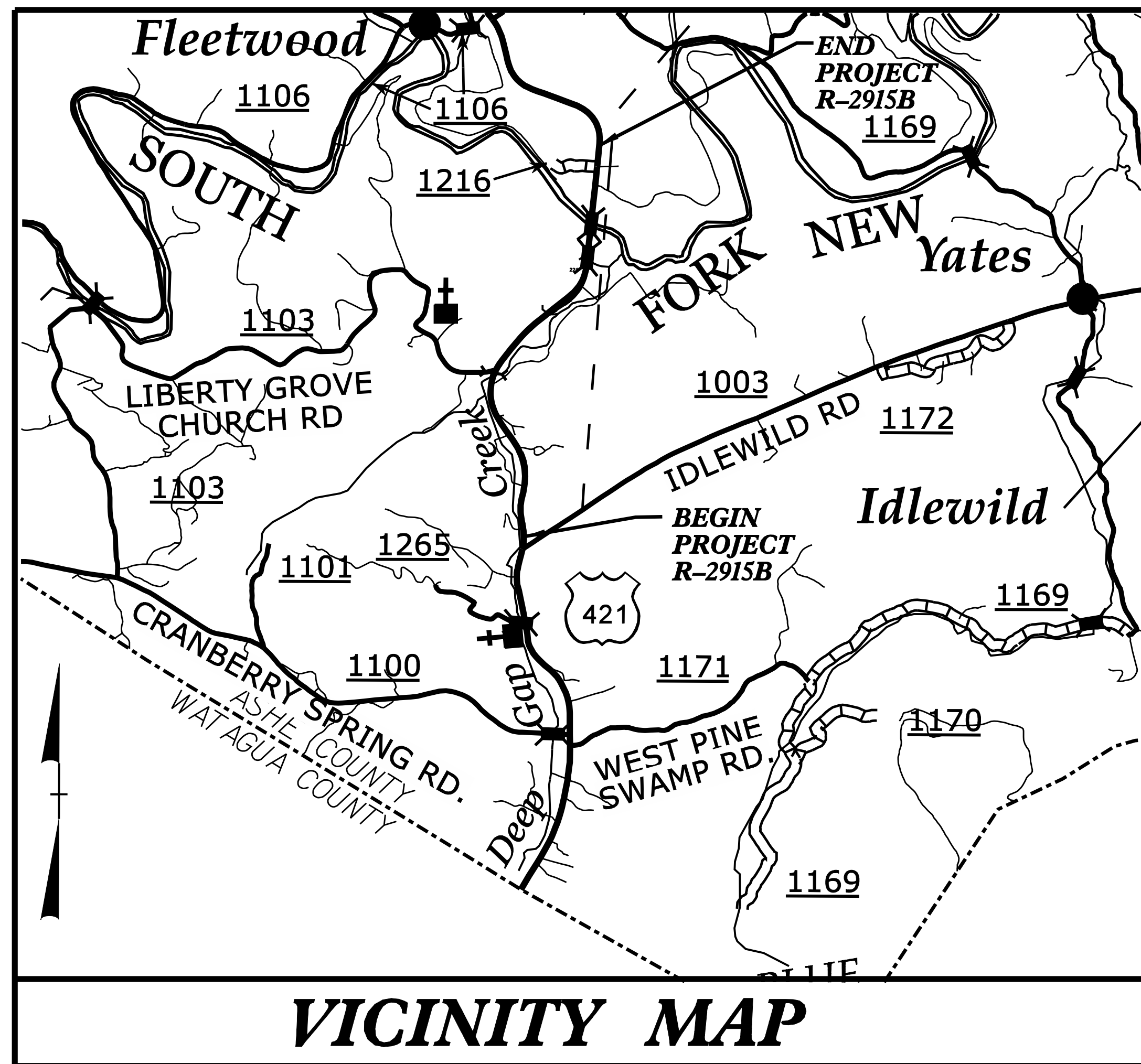
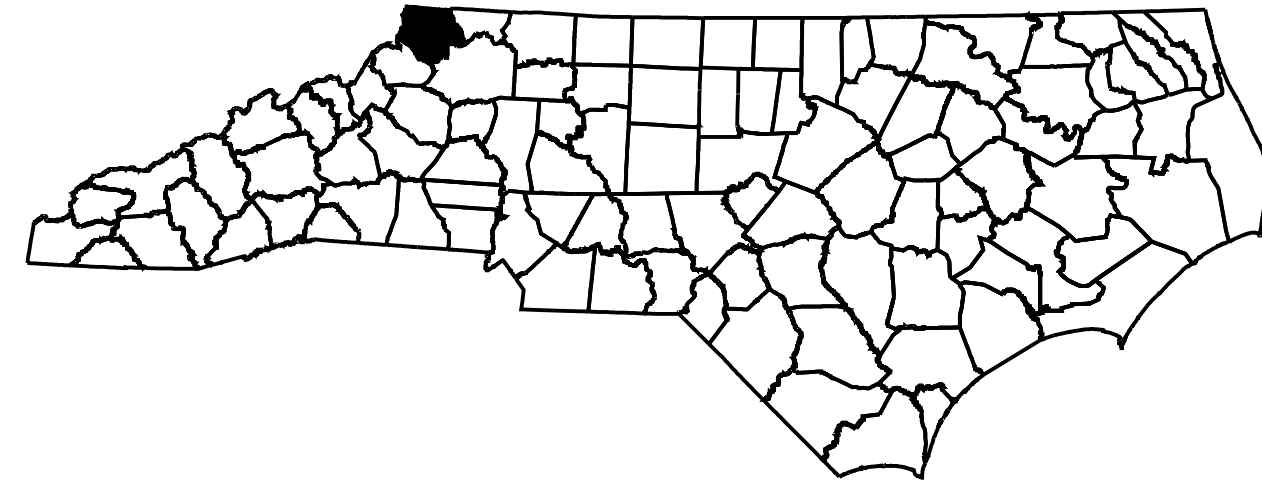
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

ASHE COUNTY



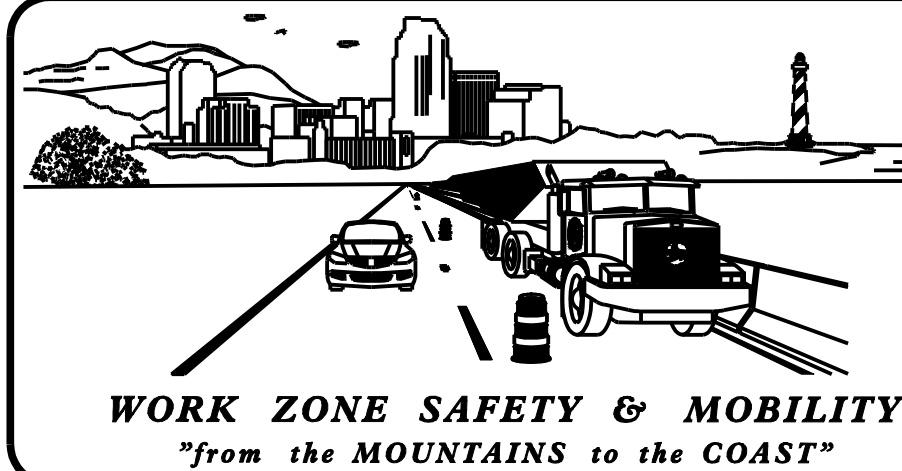
VICINITY MAP

INDEX OF SHEETS	
<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES AND LOCAL NOTES)
TMP-2	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
TMP-2A	TEMPORARY SHORING DATA
TMP-2B	OFF SITE DETOUR ROUTE
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-04 THRU TMP-13	TEMPORARY TRAFFIC CONTROL PHASE I DETAILS
TMP-14 THRU TMP-22	TEMPORARY TRAFFIC CONTROL PHASE II DETAILS

SHEET NO.
TMP-1

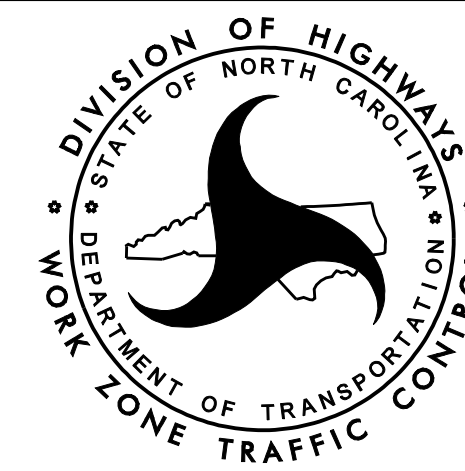
R-2915B

TIP PROJECT:



N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
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TRAFFIC CONTROL DESIGN ENGINEER



Prepared In the Office of:

PROGRESSIVE DESIGN GROUP, INC.

ENGINEERS • CONSULTANTS

APPROVED: *Tommy*
DATE: 5/7/2015

SEAL

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
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
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
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

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
- INCIDENTAL STONE
- 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 SOLID EDGE LINE
- PI YELLOW DOUBLE CENTER

PAVEMENT MARKINGS PAINT (24")

- P2 WHITE STOPBAR

COLD APPLIED PLASTIC (TYPE IV) 4"

- CA WHITE SOLID EDGE LINE
- CI YELLOW DOUBLE CENTER

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: DATE: 5/7/2015 		ROADWAY STANDARD DRAWINGS & LEGEND
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MANAGEMENT STRATEGIES

THIS PROJECT WILL BE CONSTRUCTED USING A STAGED CONSTRUCTION PROCESS WITH US 221 TRAFFIC BEING MAINTAINED ON THE EXISTING ROADWAY UNTIL PROPOSED NORTHBOUND US 221 IS CONSTRUCTED. TEMPORARY SHORING WILL BE REQUIRED IN ORDER TO FACILITATE CONSTRUCTION OF SOME OF THE PROPOSED BRIDGES AND CULVERTS ALONG NORTHBOUND US 221 AND TEMPORARY LANE CLOSURES WILL BE UTILIZED DURING TIE IN AND WEDGING OPERATIONS. AN OFF SITE DETOUR FOR -Y10- WILL BE UTILIZED DURING CONSTRUCTION OF THE PROPOSED -Y10- TIE IN TO US 221.

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>
-L- (US 221)	MONDAY-FRIDAY 6:00AM-8:00AM, 4:00PM-6:00PM SATURDAY 10:00AM-6:00PM

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

<u>ROAD NAME</u>
-L- (US 221)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 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 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- FOR CHRISTMAS IN JULY OCCURRING AT WEST JEFFERSON BETWEEN 24 HOURS BEFORE THE START AND 24 HOURS AFTER THE END OF CHRISTMAS IN JULY.
- FOR MARTIN LUTHER KING, JR. HOLIDAY BETWEEN THE HOURS OF 4:00 P.M. AND 8:00 A.M. TUESDAY.
- ALL WEEKENDS IN OCTOBER, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. SUNDAY.
- FOR BLUE RIDGE BRUTAL BIKE RACE EVENTS BETWEEN 24 HOURS BEFORE THE START AND 24 HOURS AFTER THE END OF THE BLUE RIDGE BRUTAL BIKE RACE EVENTS.
- FOR BLOOD, SWEAT & GEARS BIKE RACE EVENTS BETWEEN 24 HOURS BEFORE THE START AND 24 HOURS AFTER THE END OF THE BLOOD, SWEAT & GEARS BIKE RACE EVENTS.
- FOR BLUE RIDGE RELAYS RACE EVENTS BETWEEN 24 HOURS BEFORE THE START AND 24 HOURS AFTER THE END OF THE BLUE RIDGE RELAYS RACE EVENTS.

- C) DO NOT STOP TRAFFIC AS FOLLOWS:
- | <u>ROAD NAME</u> | <u>DAY AND TIME RESTRICTIONS</u> | <u>DURATION AND OPERATION</u> |
|------------------|---|--|
| -L- (US 221) | MONDAY THRU FRIDAY
6:00AM-8:00AM, 4:00PM-6:00PM
SATURDAY 10:00AM-6:00PM | 15 MINUTES
FOR TRAFFIC OPERATIONS
AND BLASTING OPERATIONS. |

- D) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS:
- | <u>ROAD NAME</u> | <u>DAY AND TIME RESTRICTIONS</u> |
|------------------|---|
| -L- (US 221) | MONDAY-FRIDAY 6:00AM-8:00AM, 4:00PM-6:00PM
SATURDAY 10:00AM-6:00PM |

- 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 CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- J) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- K) DO NOT INSTALL MORE THAN ONE SIMULTANEOUS LANE CLOSURE IN ANY ONE DIRECTION ON -L- (US 221).

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) 500 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 MANAGEMENT PLANS. PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC MANAGEMENT PLANS.
- 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) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

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


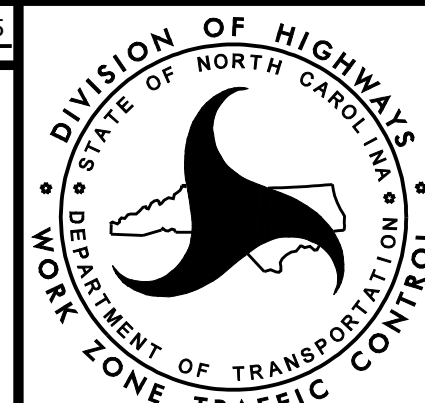
- W) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
ALL ROADS	PAINT	TEMPORARY RAISED
STRUCTURES	COLD APPLIED PLASTIC TYPE IV	TEMPORARY RAISED

- X) 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.
- Y) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- Z) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- AA) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

- AA) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 300 FT AND 150 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: <i>Tommy</i> DATE: 7/16/2015 SEAL 		TRANSPORTATION MANAGEMENT PLAN GENERAL NOTES
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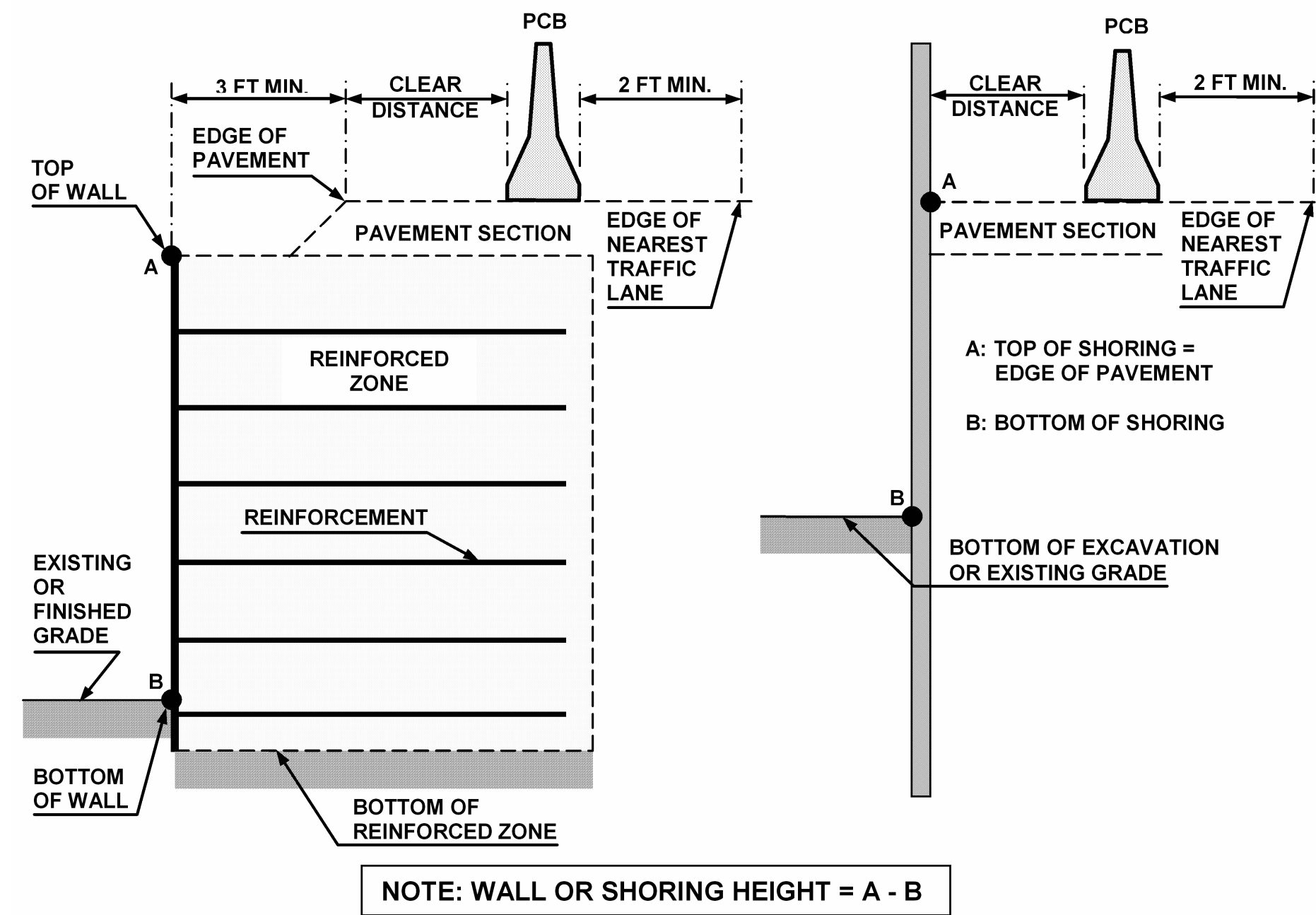


FIGURE A

NOTES

- 1- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.
- 2- REFER TO THE "TEMPORARY SHORING" PROJECT SPECIAL PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).
- 3- 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).
- 4- 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.
- 5- 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.
- 6- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.
- 7- PCB REQUIREMENTS FOR TEMPORARY WALLS APPLY TO TEMPORARY MECHANICALLY STABILIZED EARTH (MSE) WALLS AND TEMPORARY SOIL NAIL WALLS.
- 8- 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.
- 9- 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.
- 10- 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

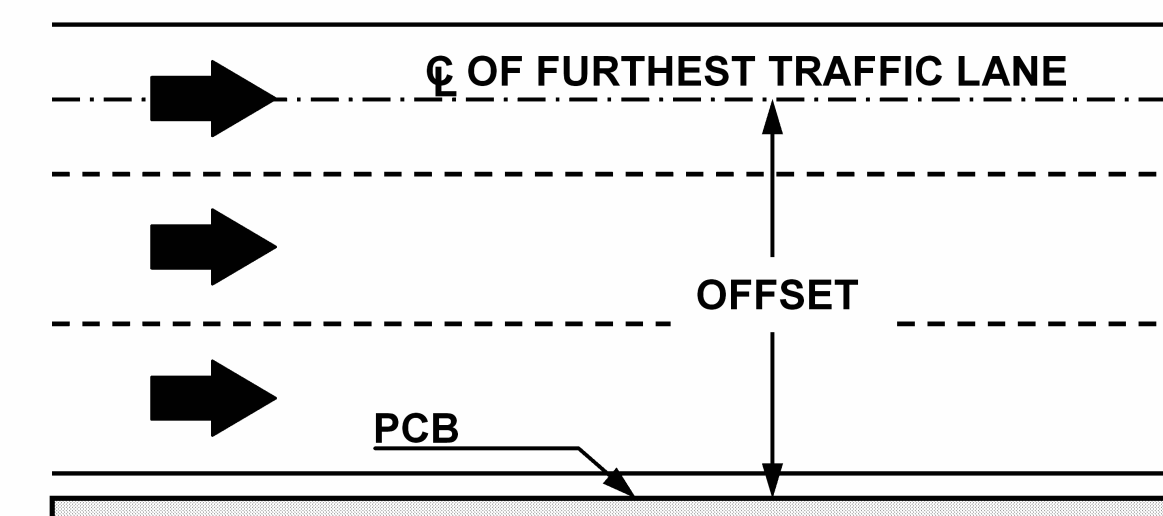


FIGURE B

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: <i>Jim Are</i> DATE: 5/7/2015 SEAL 		TRANSPORTATION MANAGEMENT PLAN PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
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SHORING LOCATION NO. 1

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

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

DESIGN TEMPORARY SHORING FROM STATION -L- 161+10±0.5' (LT), TO STATION -L- 162+10±0.5' (LT), FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 LB/CF
 FRICTION ANGLE (ϕ) = 30 DEGREES
 COHESION (c) = 0 LB/SF
 GROUNDWATER ELEVATION = 2890 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- 161+10±0.5' (LT), TO STATION -L- 162+10±0.5' (LT). THE INFORMATION PROVIDED FOR TEMPORARY SHORING 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 -L- 161+10±0.5' (LT), TO STATION -L- 162+10±0.5' (LT). SEE STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

SHORING LOCATION NO. 2

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

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


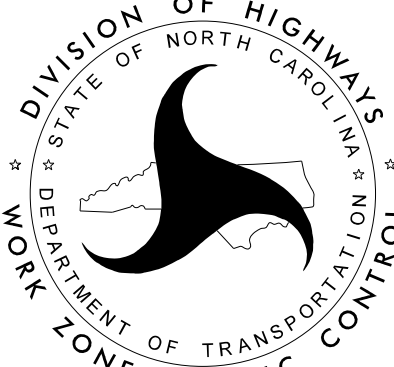
DESIGN TEMPORARY SHORING FROM STATION -L- 217+25±4.5' (RT), TO STATION -L- 217+75±4.5' (RT), FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 LB/CF
 FRICTION ANGLE (ϕ) = 30 DEGREES
 COHESION (c) = 0 LB/SF
 GROUNDWATER ELEVATION = 2858 FT

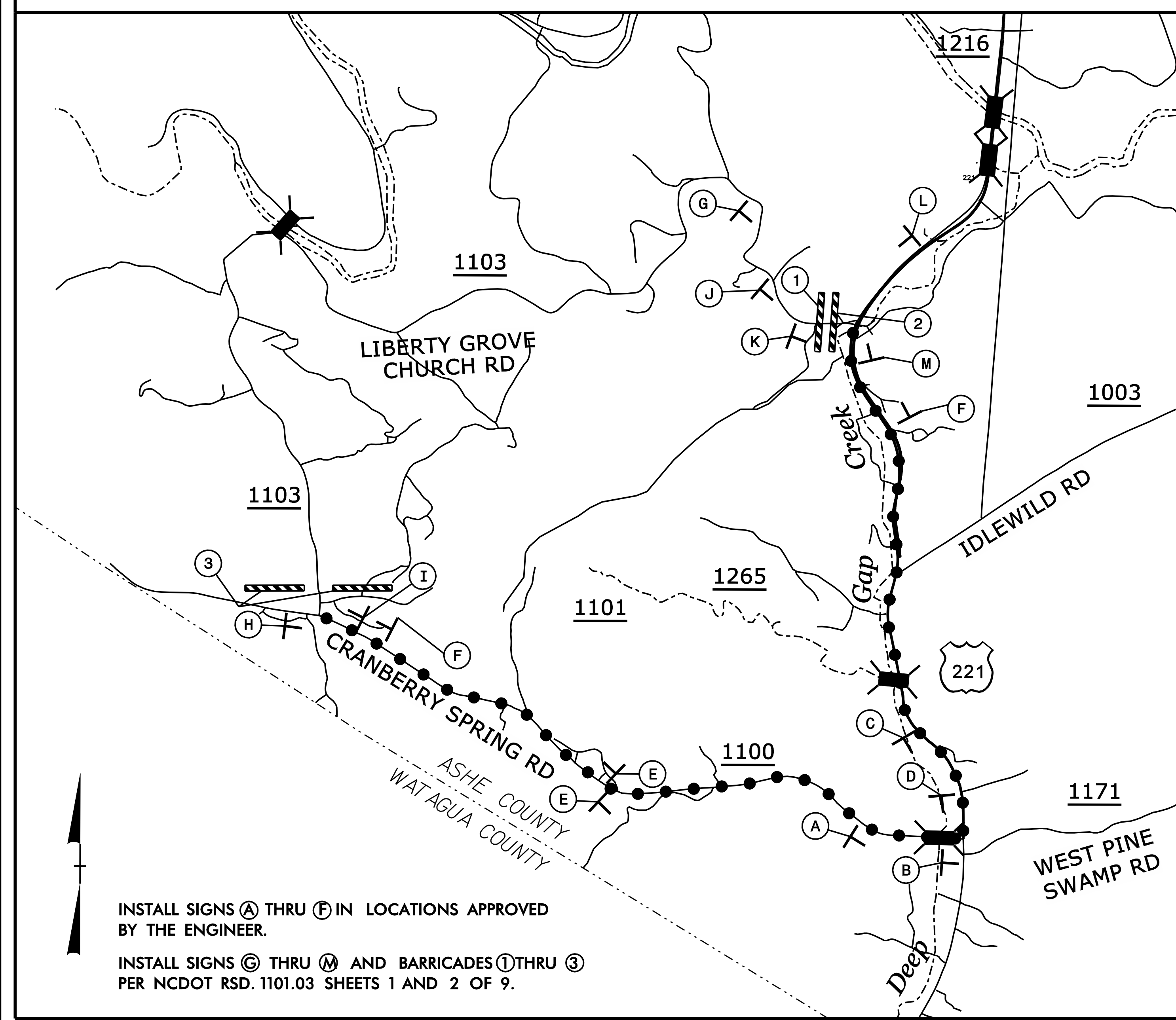
LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- 217+25±4.5' (RT), TO STATION -L- 217+75±4.5' (RT). THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 217+25±4.5' (RT), TO STATION -L- 217+75±4.5' (RT). SEE STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

6/16/2015 P:\TIP\Projects-R\2915B\TrafficControl\TCP\NR-2915B_TC_TMP-2A.dgn User:idsfouhko

APPROVED: <i>Michael H. Stephens</i> <small>C447682092914CC</small> DATE: 6/16/2015 		TEMPORARY SHORING NOTES
--	---	-------------------------

-Y10- CLOSURE AT -L-



INSTALL SIGNS (A) THRU (F) IN LOCATIONS APPROVED BY THE ENGINEER.
 INSTALL SIGNS (G) THRU (M) AND BARRICADES (1) THRU (3) PER NCDOT RSD. 1101.03 SHEETS 1 AND 2 OF 9.

SIGN NUMBER: -
 TYPE: -
 QUANTITY: 8
 SIGN WIDTH: 4'-0"
 HEIGHT: 1'-6"
 TOTAL AREA: 6.0 Sq.Ft.

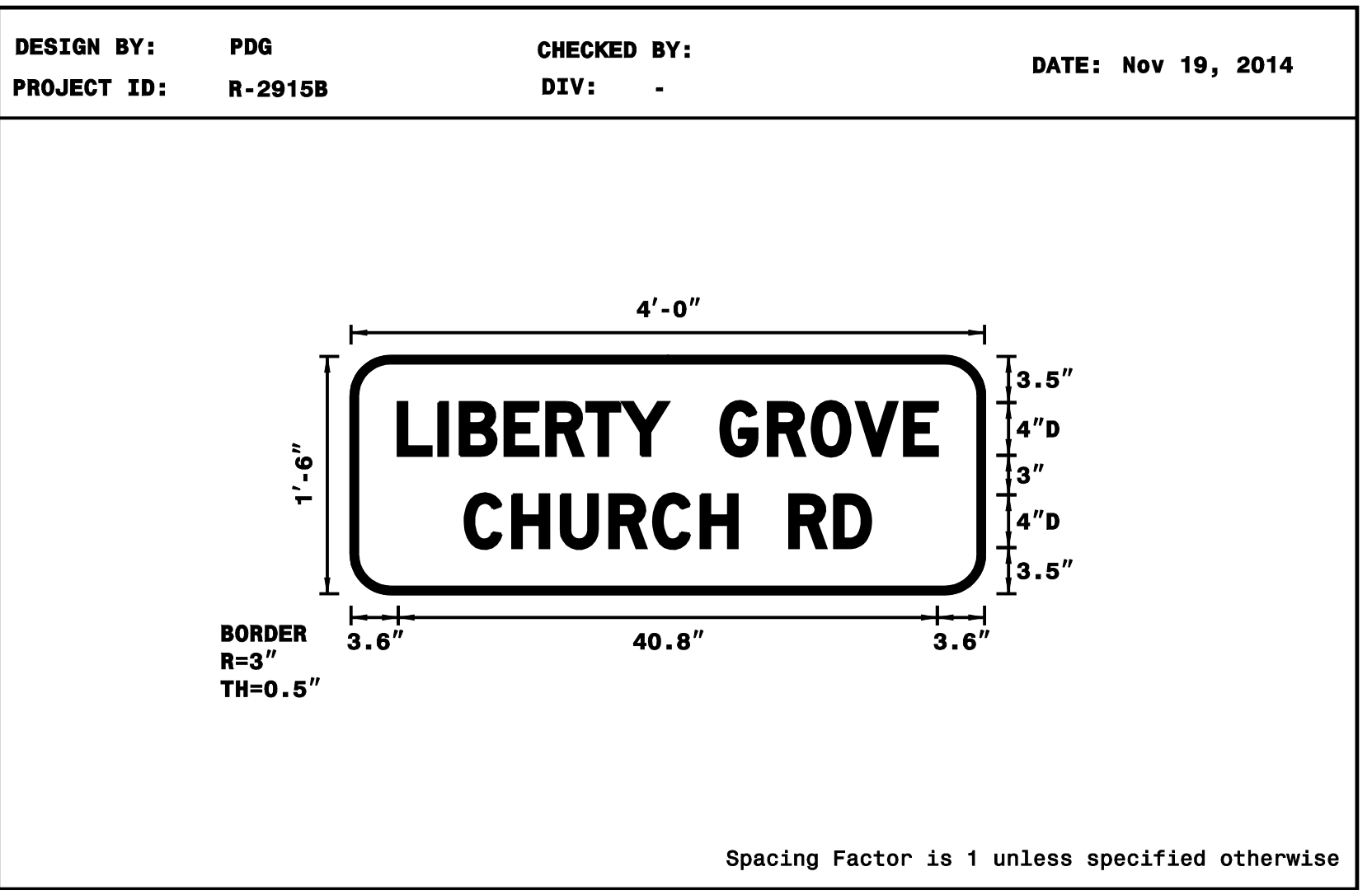
BACKG COLOR: Color 159
 COPY COLOR: White

SYMBOL	X	Y	WID	HT

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.5"
 RADII: 3"

NO. Z BARS: -
 LENGTH: -

MAT'L: 0.125" (3.2 mm) ALUMINUM



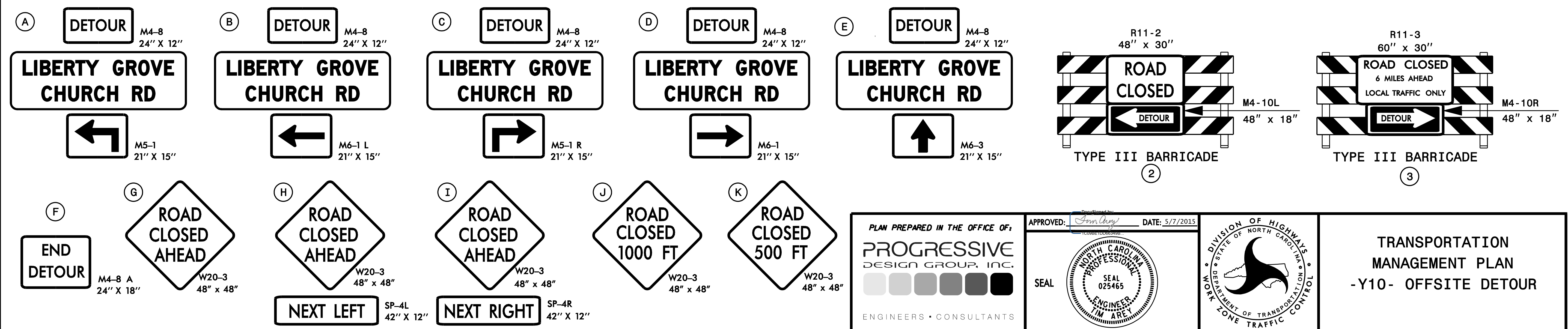
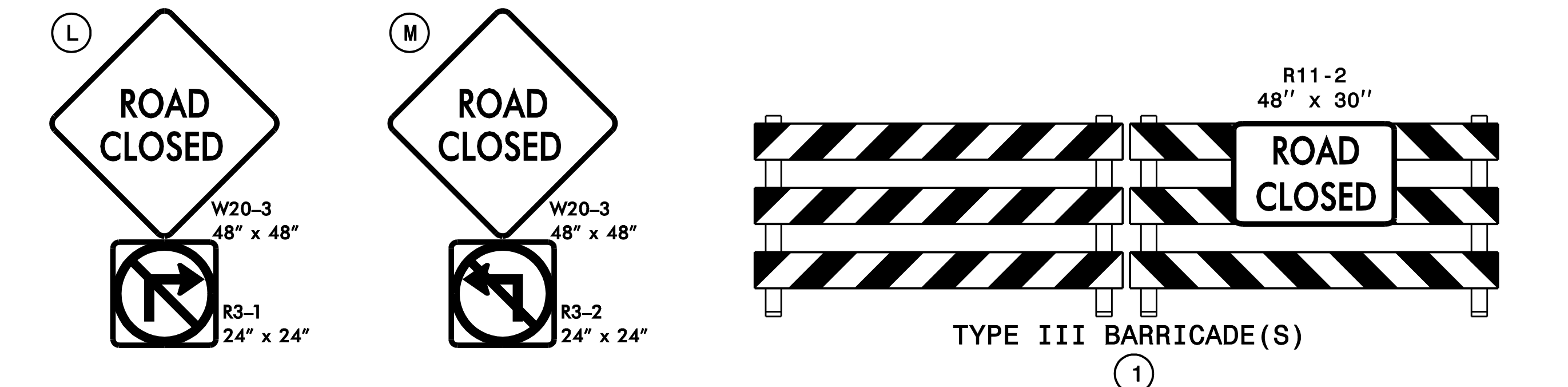
- USE NOTES:
- Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
 - Background shall be Grade A reflective sheeting.
 - Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
 - Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter	L	I	B	E	R	T	Y	G	R	O	V	E	Series/Size
Text Length	3.6	6.7	8.3	11.7	14.8	17.9	20.6	24	28	31.6	34.9	38.3	D 2000
Text Length	8.6	12.2	15.9	19.6	22.9	26.5	29.2	33.2	36.6				D 2000
Text Length													30.7

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



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

APPROVED: [Signature] DATE: 5/7/2015

SEAL: [Professional Engineer Seal]

SEAL: [Professional Engineer Seal]

TRANSPORTATION MANAGEMENT PLAN
 -Y10- OFFSITE DETOUR

PHASING

PROJ. REFERENCE NO.	SHEET NO.
R-2915B	TMP-3

MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION. COORDINATE WITH PROPERTY OWNERS AS NEEDED DURING DRIVEWAY CONSTRUCTION.

PHASE I

- STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADWAYS AS SHOWN ON ROADWAY STANDARD DRAWING NO. 1101.01.
- STEP 2: BEGIN CONSTRUCTION ON THE FOLLOWING AWAY FROM TRAFFIC UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:
- -L-, -DET-: NORTHBOUND IN THE LOCATIONS SHOWN ON SHEETS TMP-04 THRU TMP-11. NOTE THAT AN EQUALITY OF -L- TO -DET- TAKES PLACE AT STA. 251+72.02 -L-.
 - -L-: NORTHBOUND BRIDGE AT STA. 199+00+/- AS SHOWN ON SHEET TMP-07.
 - -L-: TEMPORARY MEDIAN DRIVEWAY CONNECTIONS AS SHOWN ON SHEETS TMP-06 THRU TMP-09.
 - -DR1- AND -DR2-: AS SHOWN ON SHEET TMP-04.
 - -Y10-: IN THE LOCATIONS SHOWN ON SHEET TMP-07.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, AS NEEDED, INSTALL THE FOLLOWING:

- TEMPORARY GUARDRAIL ALONG -L- NORTHBOUND AND SOUTHBOUND IN THE LOCATIONS SHOWN ON SHEETS TMP-04 AND TMP-08.
- TEMPORARY SHORING AT LOCATIONS #1 AND #2 AS SHOWN ON SHEETS TMP-04 AND TMP-08.
- PROPOSED CULVERTS AT STA. 161+50+/- -L- AND STA. 217+50+/- -L- AS SHOWN ON SHEETS TMP-04 AND TMP-08.
- PROPOSED -L- NORTHBOUND BRIDGES AT STA. 235+00+/- -L- AND STA. 242+00+/- -L- AS SHOWN ON SHEETS TMP-09 AND TMP-10.
- THE PORTION OF THE PROPOSED CROSS PIPES THAT ARE LOCATED UNDER EXISTING -L- AT STA. 166+00+/- -L- AND STA. 174+00+/- -L- BY A TRENCHLESS INSTALLATION METHOD. SEE SHEETS TMP-04 AND TMP-05. INSTALL THE REMAINING PORTIONS OF THESE CROSS PIPES BY OPEN CUTTING. ENSURE THAT ALL EXISTING, TEMPORARY AND PROPOSED DITCH ELEVATIONS BETWEEN EXISTING -L- AND PROPOSED -L- ARE GRADED TO DRAIN FOR THE CONSTRUCTION CONDITIONS.
- -L-: TEMPORARY PAVEMENT ALIGNMENT IN THE LOCATIONS SHOWN ON SHEETS TMP-04 AND TMP-05.

CONSTRUCT THE FOLLOWING AWAY FROM TRAFFIC UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:

- -Y9-: IN THE LOCATIONS SHOWN ON SHEET TMP-05.
- -DR3-: IN THE LOCATIONS SHOWN ON SHEET TMP-06.

STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, COMPLETE THE FOLLOWING:

- INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- FROM STA. 165+00+/- -L- TO STA. 172+85+/- -L- AND PLACE EXISTING -L- TRAFFIC ONTO THE TEMPORARY PAVEMENT ALIGNMENT AS SHOWN ON SHEET TMP-12. BEGIN CONSTRUCTION ON PROPOSED -L- NORTHBOUND IN THE LOCATIONS SHOWN ON SHEET TMP-12.
- WEDGE UP EXISTING -L- TO THE PROPOSED -L- ELEVATION MINUS THE FINAL LAYER OF SURFACE COURSE IN THE LOCATIONS SHOWN ON SHEETS TMP-10 AND TMP-11. REPLACE EXISTING PAVEMENT MARKINGS BY THE END OF EACH DAY.
- CONSTRUCT PROPOSED -Y13- AND -Y13A- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE LOCATIONS SHOWN ON SHEET TMP-11 BY WORKING IN A CONTINUOUS MANNER. MAINTAIN ACCESS ON -Y13- AND -Y13A- WITH INCIDENTAL STONE BY THE END OF EACH DAY DURING THE CONSTRUCTION PROCESS.

COMPLETE CONSTRUCTION ON PROPOSED -L- NORTHBOUND FROM STA. 173+60+/- -L- TO STA. 175+10+/- -L-, INSTALL TEMPORARY PAVEMENT MARKINGS ON PROPOSED -Y9- AND OPEN -PROPOSED -Y9- TO TRAFFIC AS SHOWN ON SHEET TMP-12.

COMPLETE CONSTRUCTION ON PROPOSED -L- NORTHBOUND FROM STA. 187+90+/- -L- TO STA. 188+55+/- -L- AND OPEN -PROPOSED -DR3- TO TRAFFIC AS SHOWN ON SHEET TMP-13. BEGIN CONSTRUCTION ON PROPOSED -L- NORTHBOUND IN THE LOCATIONS SHOWN ON SHEET TMP-13.

PHASE II

STEP 1: COMPLETE CONSTRUCTION ON PROPOSED -L- NORTHBOUND UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PROPOSED -L- NORTHBOUND BRIDGES REQUIRED TO SHIFT TRAFFIC TO THE PATTERN SHOWN ON SHEETS TMP-14 THRU TMP-21.

AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON PROPOSED -L- NORTHBOUND IN THE PATTERNS SHOWN ON SHEETS TMP-14 THRU TMP-21.

COMPLETE CONSTRUCTION ON -Y10- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE LOCATIONS SHOWN ON SHEET TMP-07. INSTALL AND COVER OFFSITE DETOUR SIGNING FOR THE -Y10- OFFSITE DETOUR AS SHOWN ON SHEET TMP-2B.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE II, STEP 2 AND STEP 3 IN 7 CONSECUTIVE DAYS.

STEP 2: UNCOVER THE OFFSITE DETOUR SIGNS FOR -Y10-, INSTALL THE REMAINING ROAD CLOSURE TRAFFIC CONTROL DEVICES SHOWN ON SHEET TMP-2B AND PLACE -Y10- TRAFFIC ON THE OFFSITE DETOUR SHOWN ON SHEET TMP-2B. COMPLETE CONSTRUCTION ON -Y10- FROM STA. 12+75+/- TO STA. 15+70+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, ADJUST STOP BAR PAVEMENT MARKINGS ON SR 1003 (IDLEWILD RD), -Y9-, -Y13- AND -Y13A- TO THE LOCATIONS SHOWN ON SHEETS TMP-14, TMP-15 AND TMP-21.

INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON THE REMAINING SECTIONS (TIE-IN AREAS AT NORTHERN AND SOUTHERN PROJECT LIMITS) OF PROPOSED -L- NORTHBOUND IN THE PATTERNS SHOWN ON SHEETS TMP-14 AND TMP-21 AND PLACE -L- TRAFFIC INTO THE PATTERN SHOWN ON SHEETS TMP-14 THRU TMP-21.

INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y10- IN THE LOCATIONS SHOWN ON SHEET TMP-17 AND OPEN -Y10- TO TRAFFIC.

STEP 4: BEGIN CONSTRUCTION ON THE FOLLOWING AWAY FROM TRAFFIC:

- -L-: SOUTHBOUND IN THE LOCATIONS SHOWN ON SHEETS TMP-14 THRU TMP-21.
- -L-: SOUTHBOUND BRIDGES AT STA. 199+00+/- AND STA. 242+00+/- AS SHOWN ON SHEETS TMP-17 AND TMP-20.

WORKING IN A CONTINUOUS MANNER, CONSTRUCT PROPOSED -Y11- AND -Y12- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE LOCATIONS SHOWN ON SHEETS TMP-18 AND TMP-19. MAINTAIN TRAFFIC ON THESE TWO -Y-LINES WITH INCIDENTAL STONE BY THE END OF EACH CONSTRUCTION PERIOD. INSTALL TEMPORARY PAVEMENT MARKINGS ON -Y11- AND -Y12- IN THE LOCATIONS SHOWN ON SHEET TMP-22 AND PLACE -Y11- AND -Y12- TRAFFIC INTO THE PATTERN SHOWN ON SHEET TMP-22.

PHASE III

STEP 1: COMPLETE CONSTRUCTION ON PROPOSED -L- SOUTHBOUND UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PROPOSED -L- SOUTHBOUND BRIDGES.

AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON PROPOSED -L- SOUTHBOUND IN THE FINAL TRAFFIC PATTERN AS SHOWN IN THE FINAL PAVEMENT MARKING PLANS.


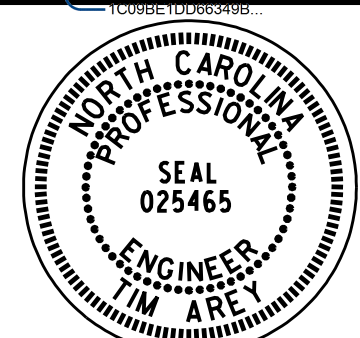
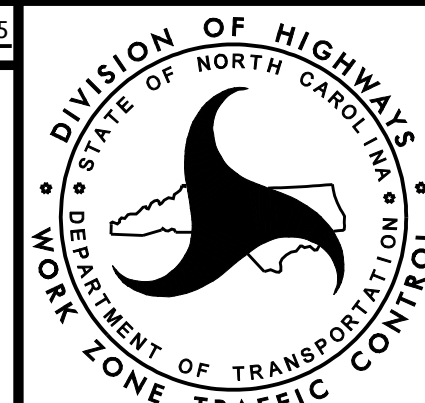
STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 15, ADJUST STOP BAR PAVEMENT MARKINGS ON -Y10-, -Y11-, -Y12- AND -Y13- TO THE FINAL LOCATION AS SHOWN IN THE PAVEMENT MARKING PLANS.

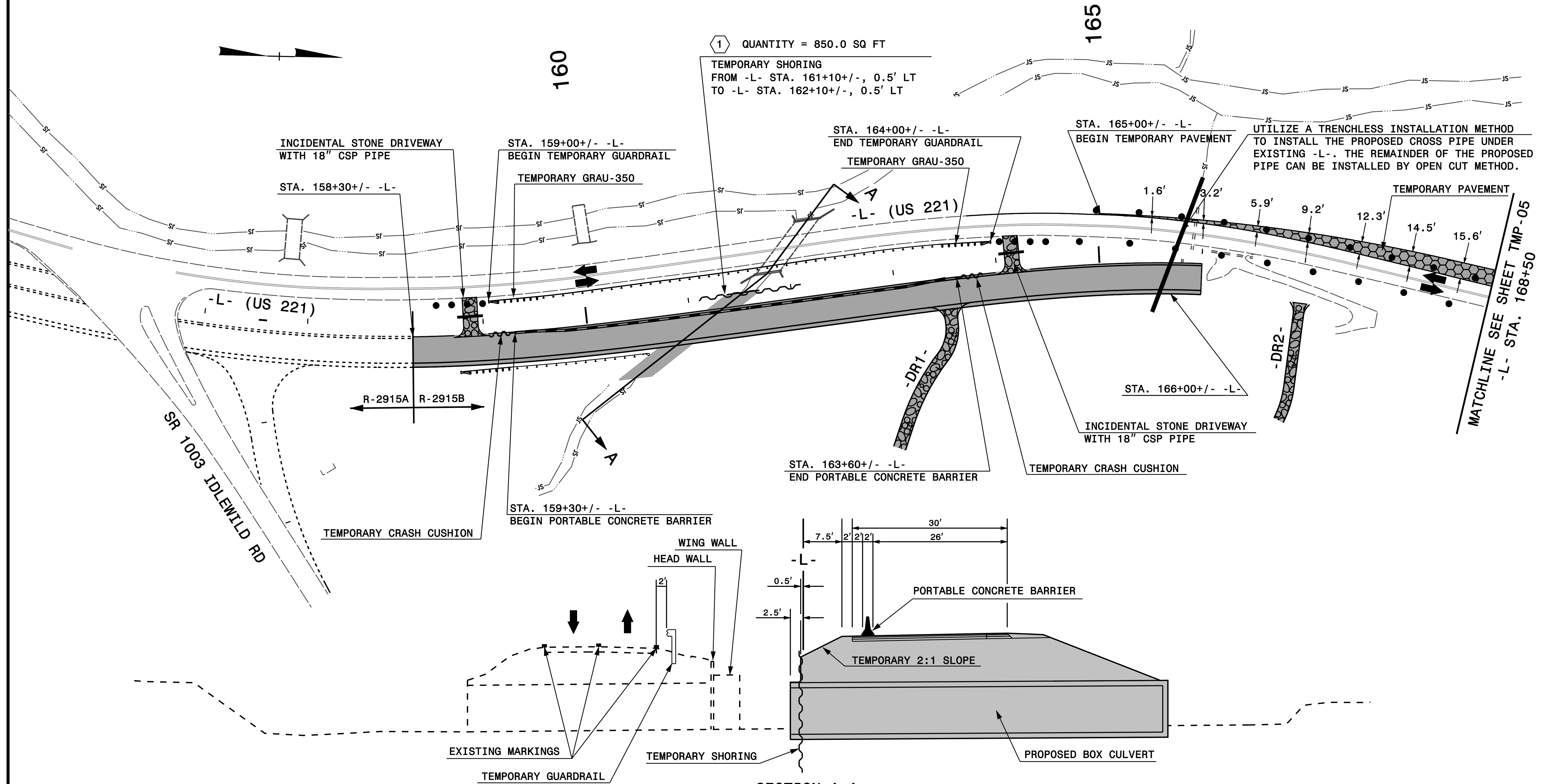
INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON THE REMAINING SECTIONS (TIE-IN AREAS AT NORTHERN AND SOUTHERN PROJECT LIMITS) OF PROPOSED -L- SOUTHBOUND IN THE PATTERNS SHOWN ON THE FINAL PAVEMENT MARKING PLANS AND SHIFT -L- SOUTHBOUND, -Y10-, -Y11-, -Y12- AND -Y13- INTO THE PROPOSED OUTSIDE LANE OF -L- SOUTHBOUND. UTILIZE DRUMS TO KEEP THE PROPOSED -L- SOUTHBOUND INSIDE LANE CLOSED TO TRAFFIC. ALSO UTILIZE DRUMS TO KEEP THE INSIDE LANE OF -L- NORTHBOUND CLOSED TO TRAFFIC. THERE SHOULD BE ONE LANE OPEN ON THE PROPOSED OUTSIDE LANE IN EACH DIRECTION. CONSTRUCT REMAINING IMPROVEMENTS (INCLUDING MONOLITHIC ISLANDS NOT PREVIOUSLY CONSTRUCTED) IN THE MEDIAN OF -L- WITH -L- TRAFFIC IN THE OUTSIDE LANE IN EACH DIRECTION.

STEP 3: COMPLETE THE FOLLOWING USING ROADWAY STANDARD DRAWING 1101.02, SHEETS 1 AND 3 OF 15:

- PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS (SEE FINAL PAVEMENT MARKING PLANS) AND MARKERS ON PROPOSED -L- NORTHBOUND AND ALL -Y- LINES RIGHT OF -L- AND SWITCH -L- NORTHBOUND TRAFFIC INTO THE FINAL PATTERN.
- PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS (SEE FINAL PAVEMENT MARKING PLANS) AND MARKERS ON PROPOSED -L- SOUTHBOUND AND ALL -Y- LINES LEFT OF -L-.

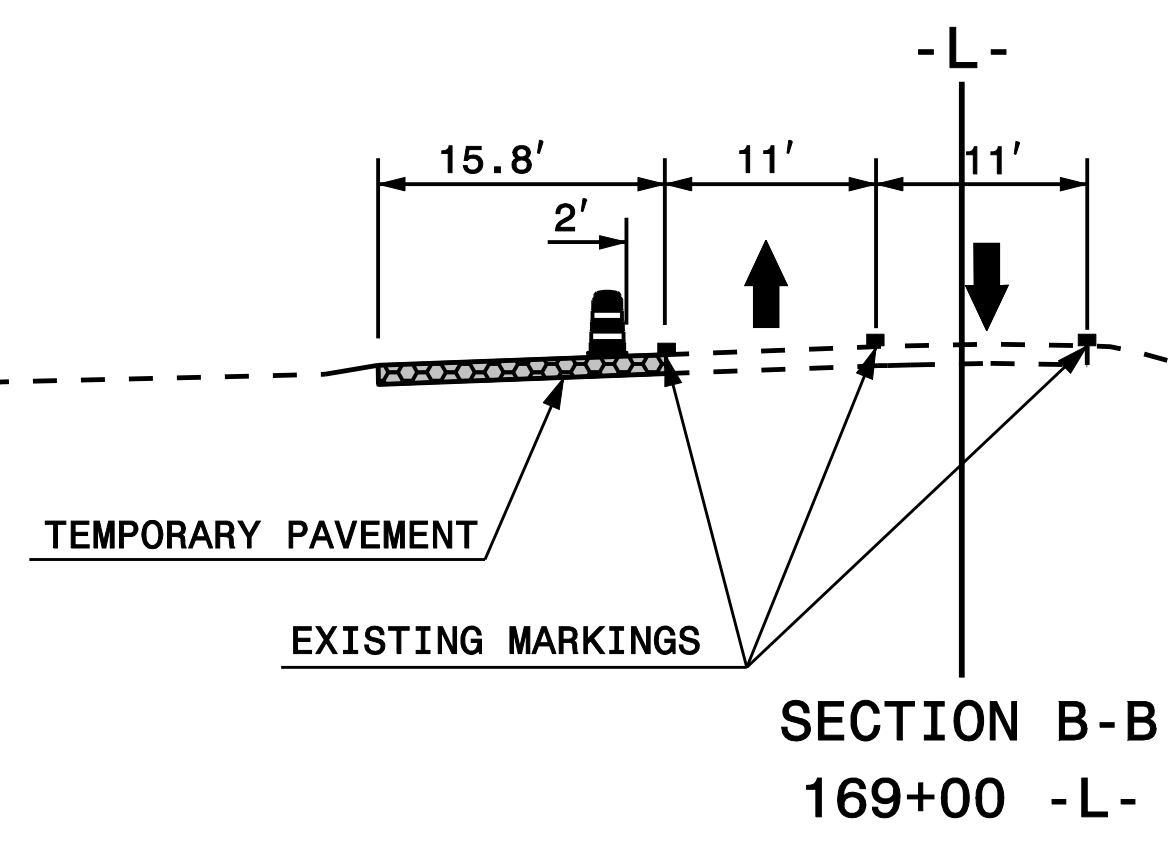
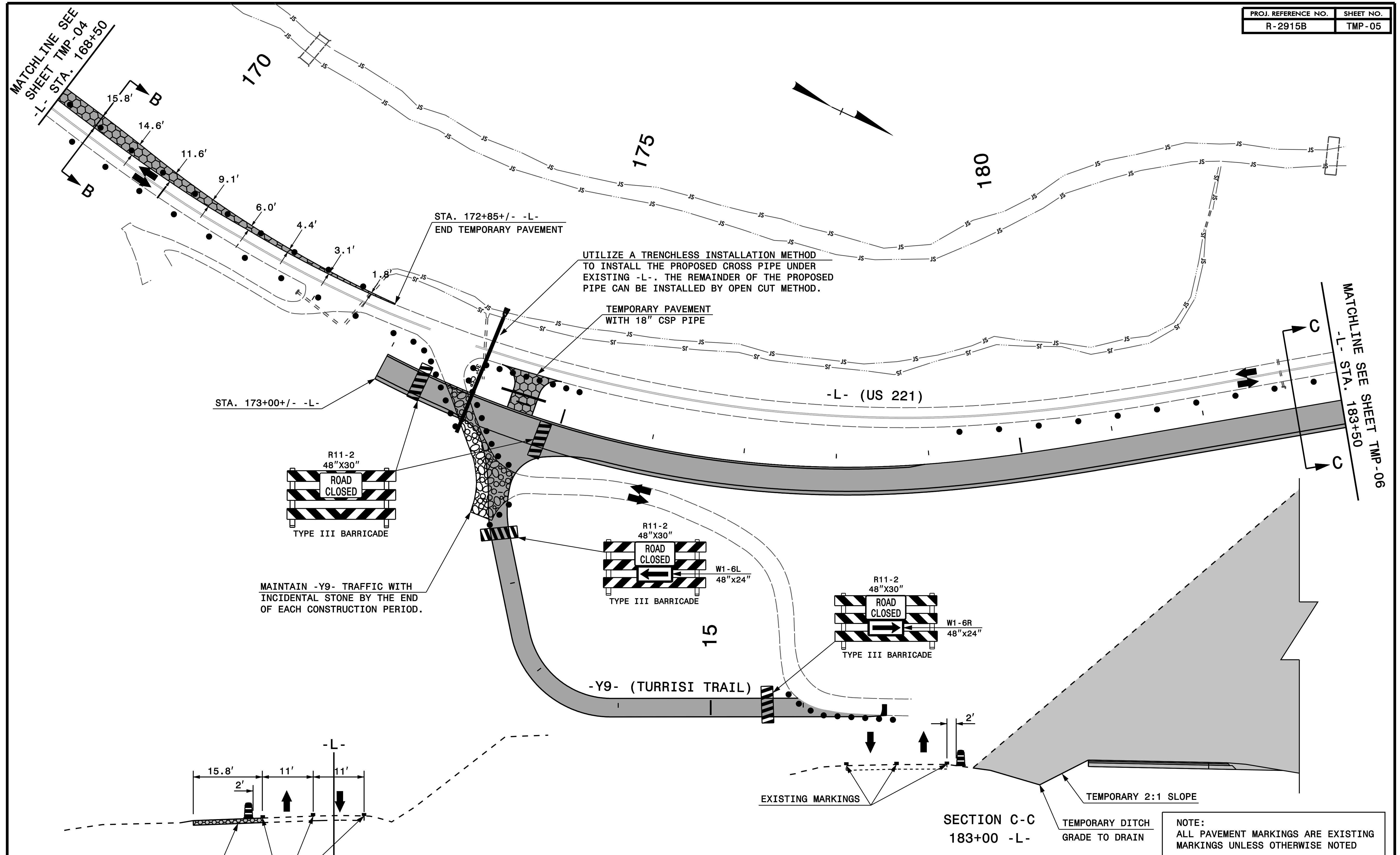
STEP 4: REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

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	SEAL			

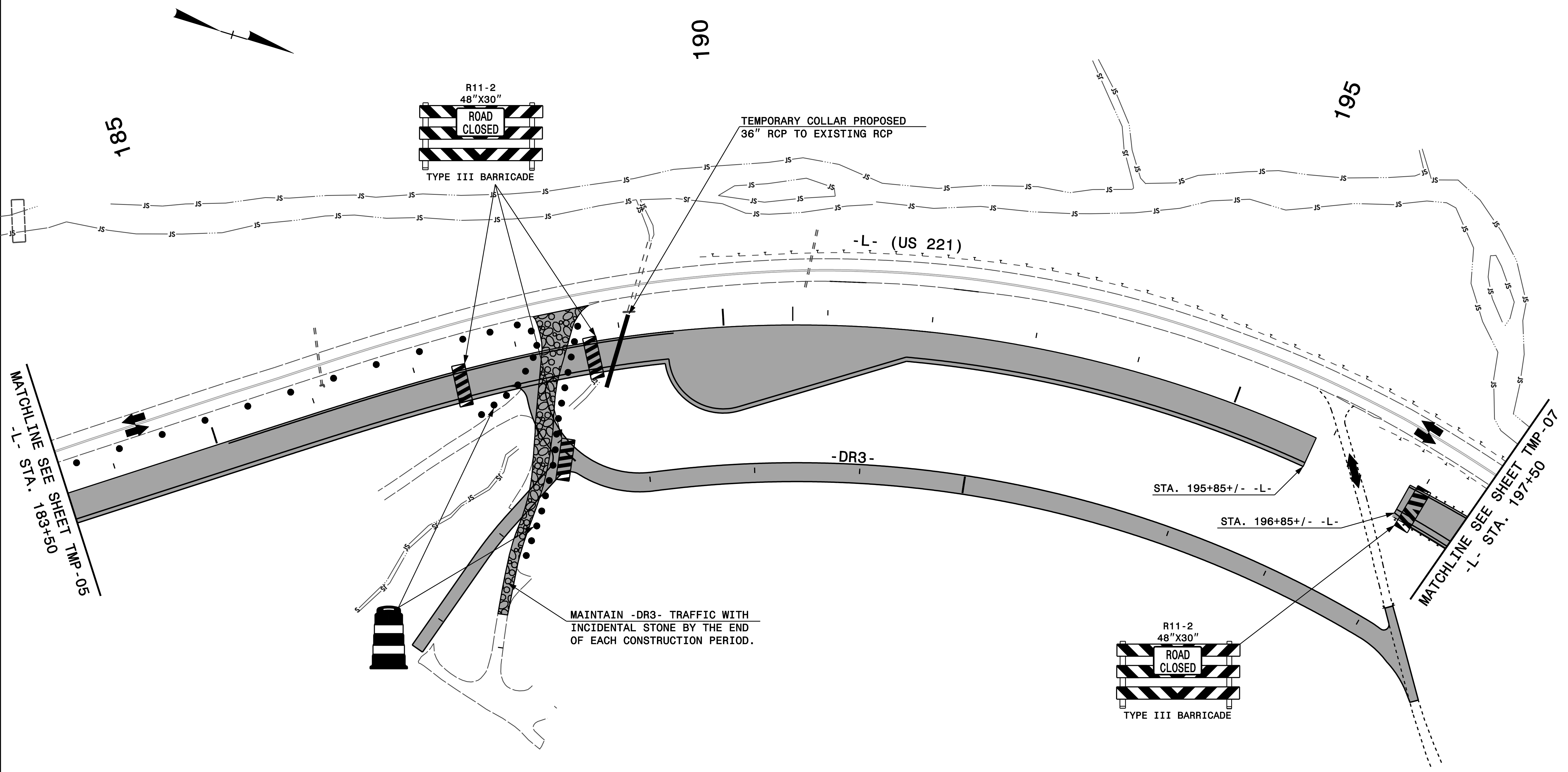


NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: <i>[Signature]</i> DATE: 7/22/2015	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS
	SEAL 		



PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: <i>Tommy</i> DATE: 7/22/2015	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS
	SEAL 		



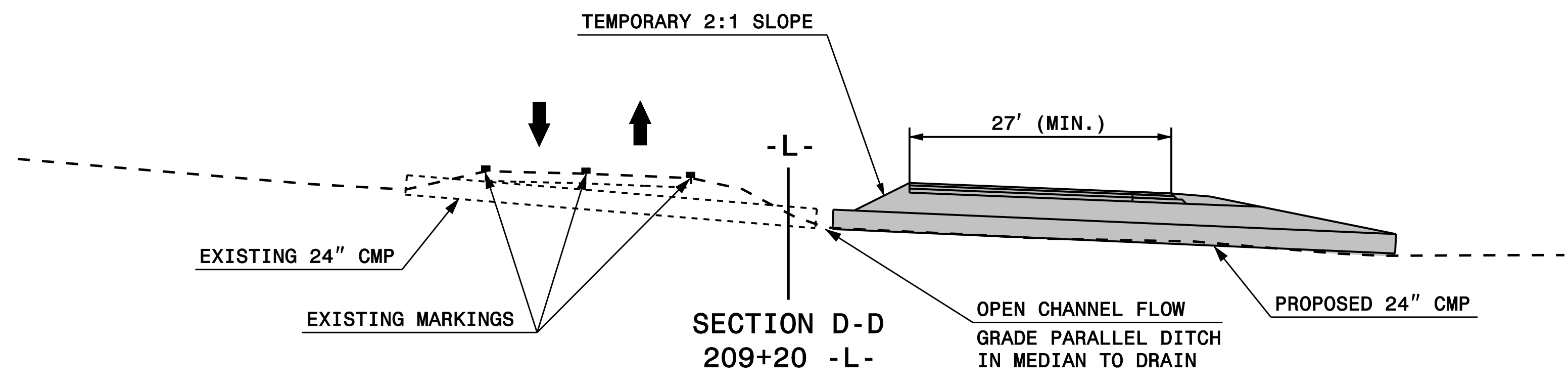
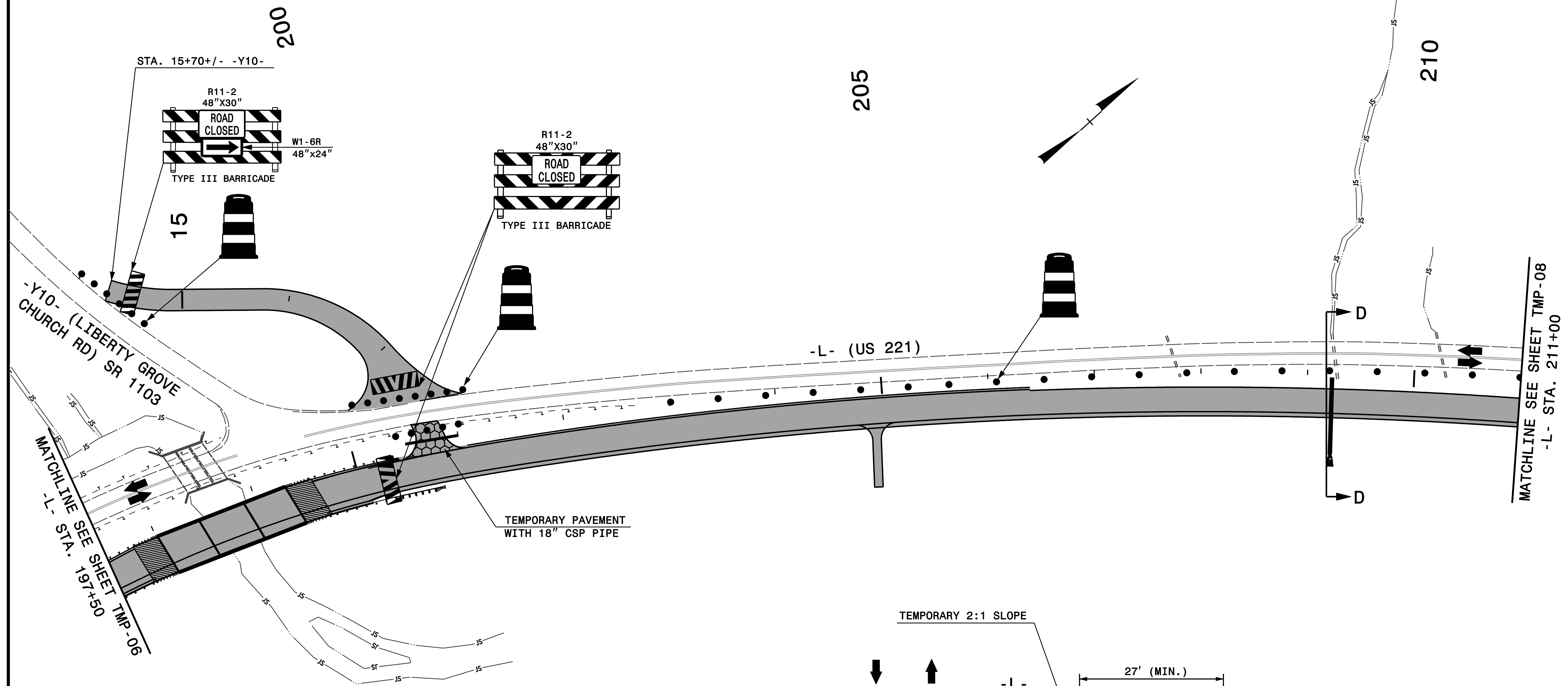
MATCHLINE SEE SHEET TMP-05
-L- STA. 183+50

MATCHLINE SEE SHEET TMP-07
-L- STA. 197+50

MAINTAIN -DR3- TRAFFIC WITH INCIDENTAL STONE BY THE END OF EACH CONSTRUCTION PERIOD.

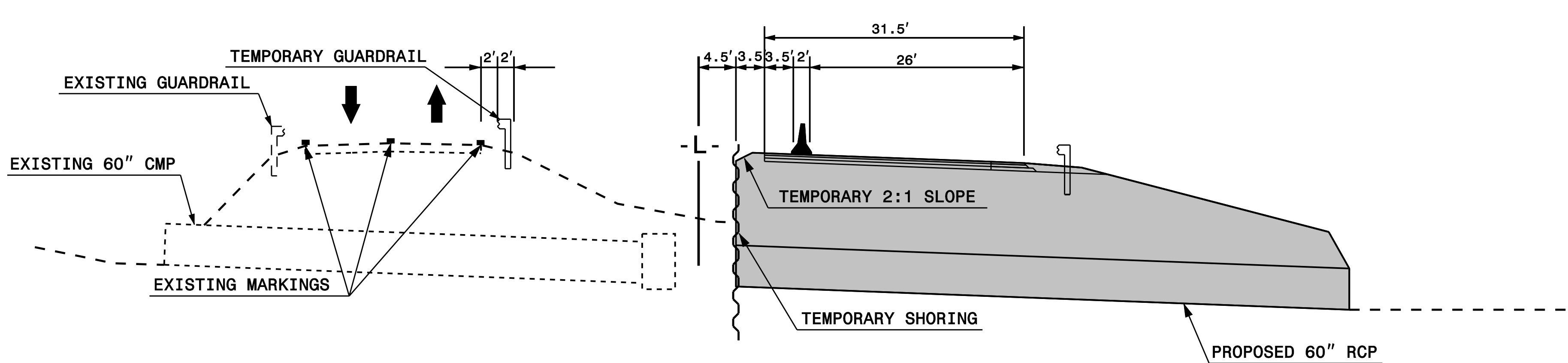
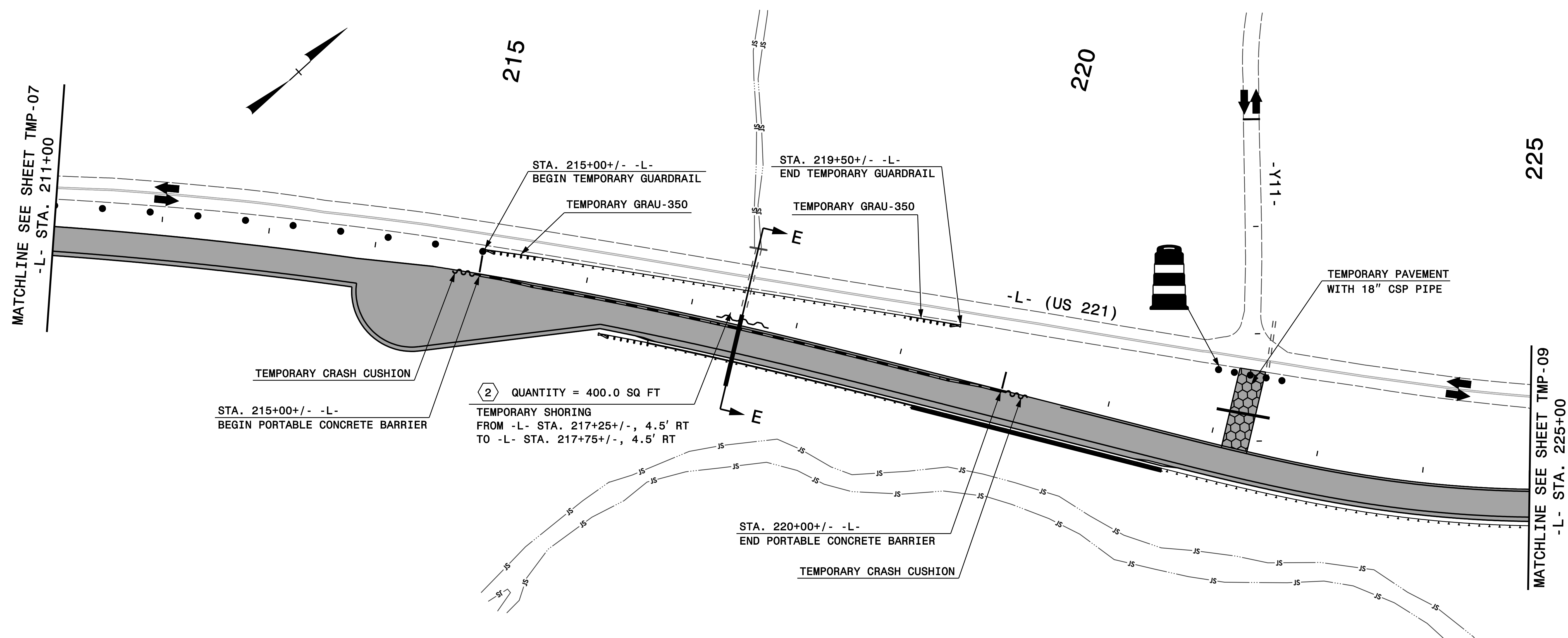
NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED

<p>PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>[Signature]</i> DATE: 7/22/2015 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465 TIM ARE</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS</p>
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NOTE:
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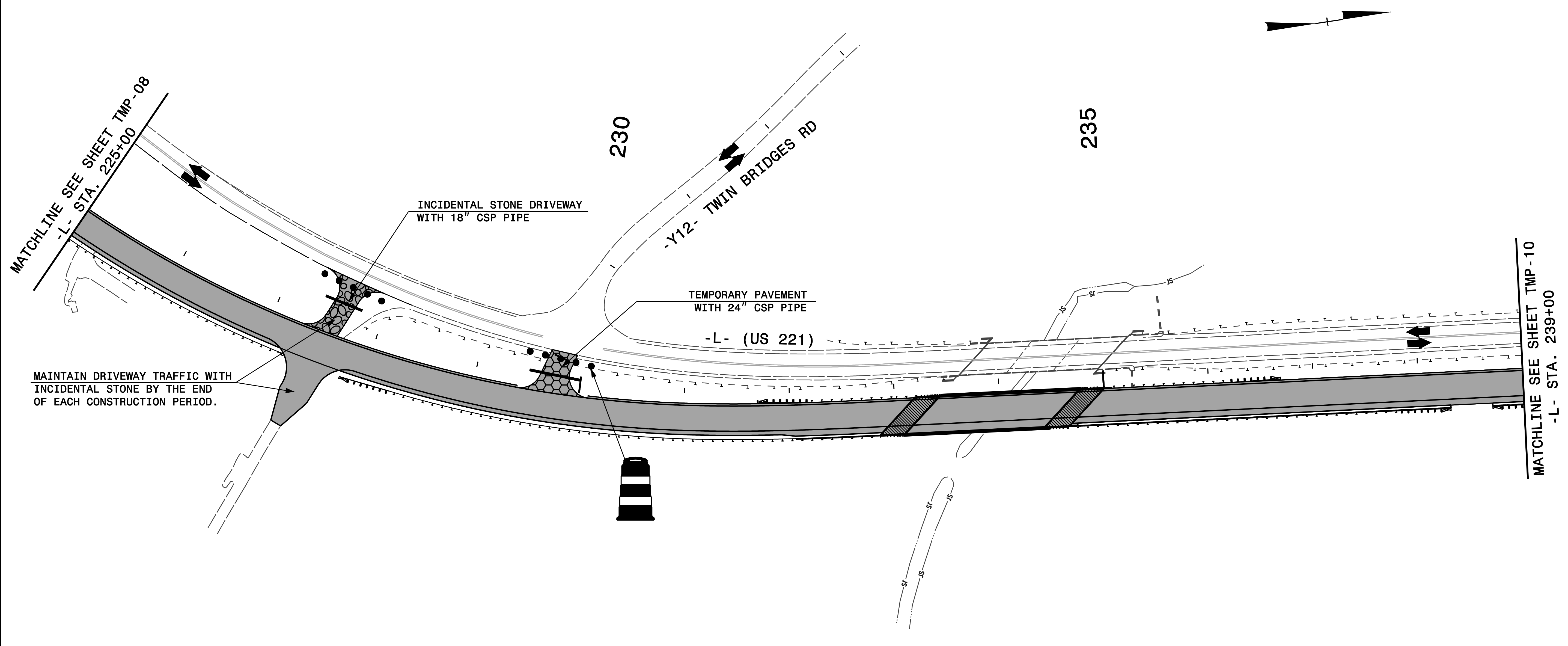
<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tommy</i> DATE: 5/29/2015</p> <p>SEAL</p> <p>NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465 TIM ARE</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS</p>
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SECTION E-E
217+50 -L-

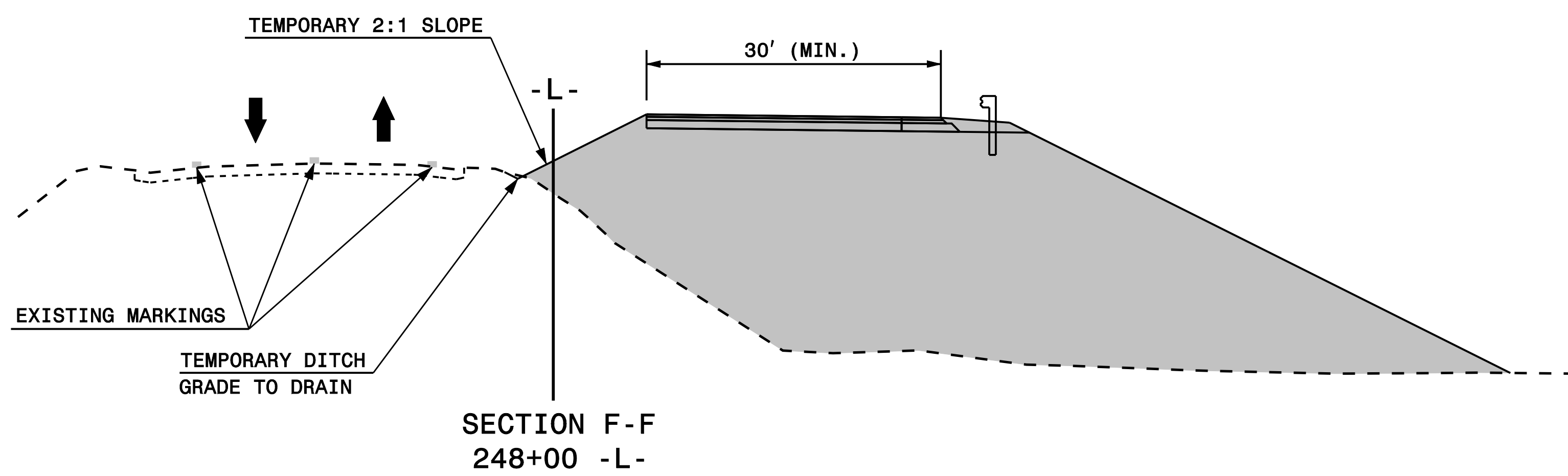
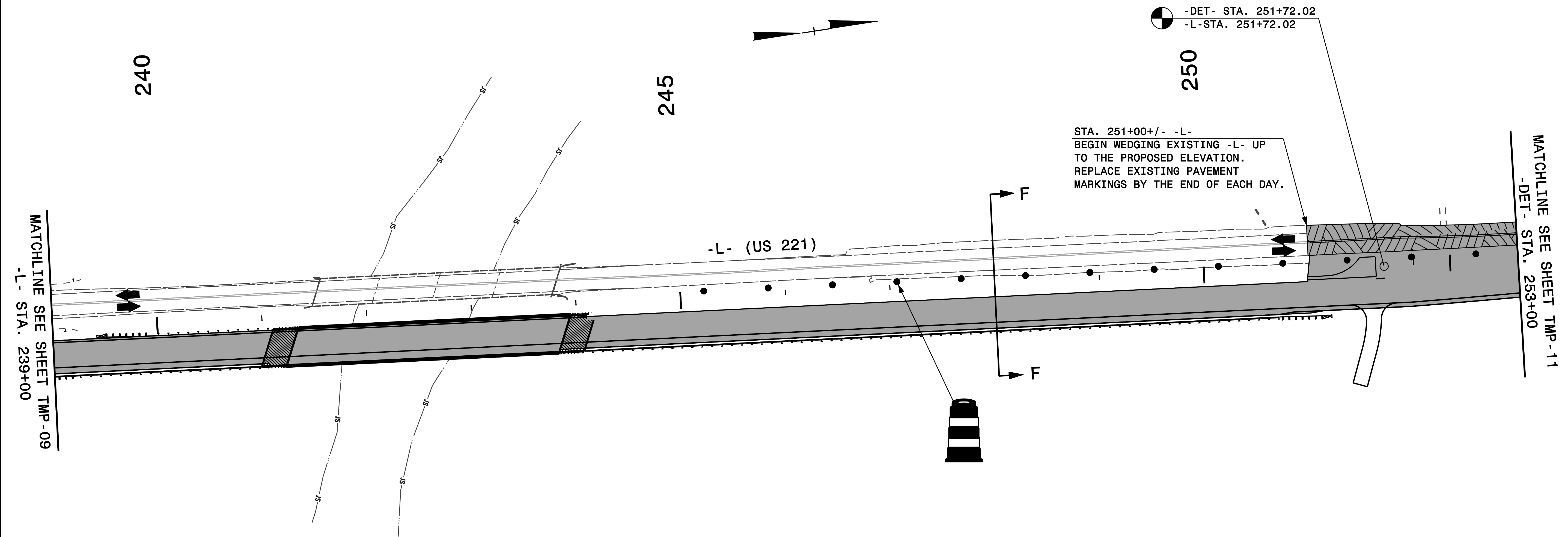
NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING
MARKINGS UNLESS OTHERWISE NOTED

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: <i>[Signature]</i> DATE: 5/29/2015	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS
	SEAL 		



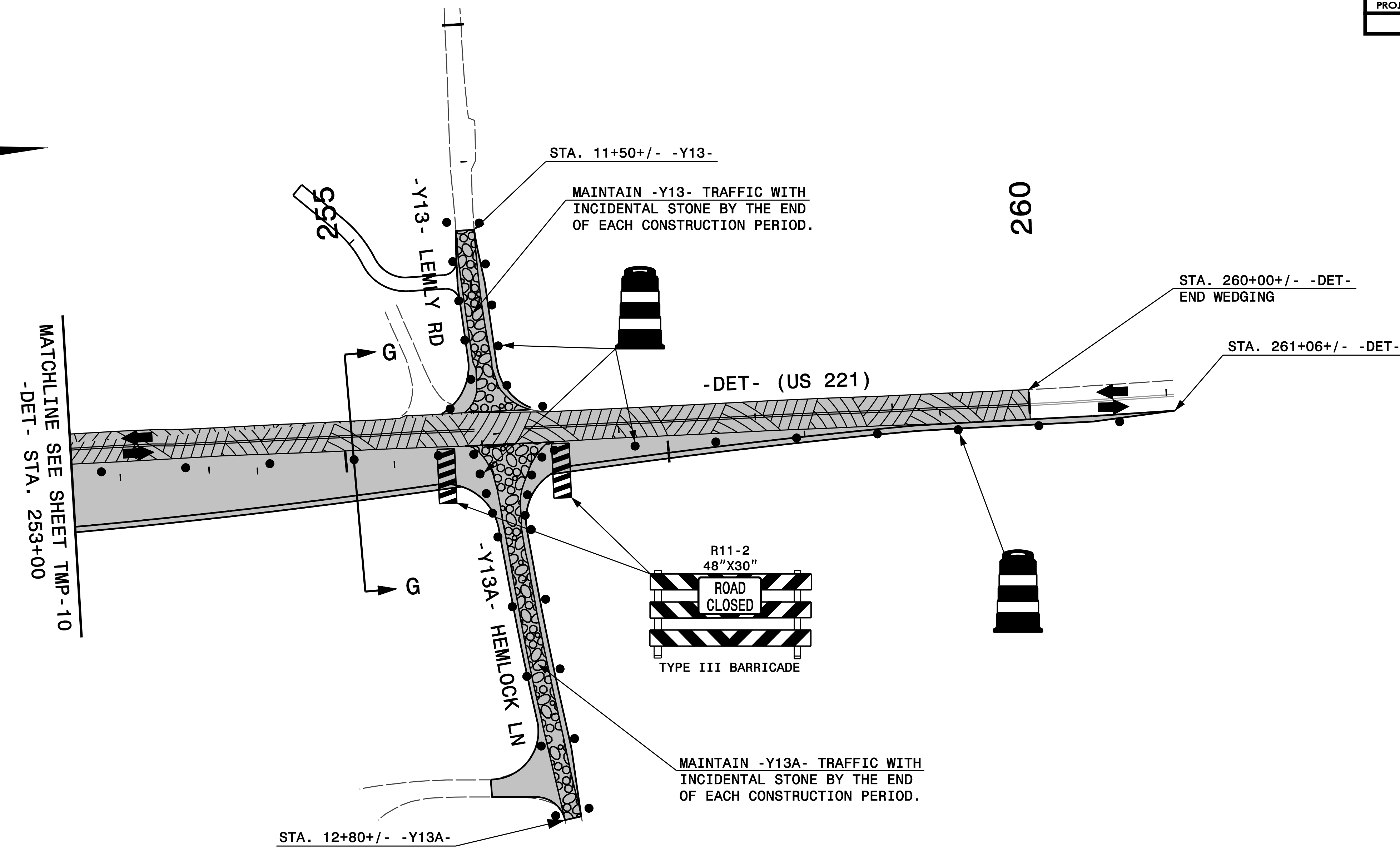
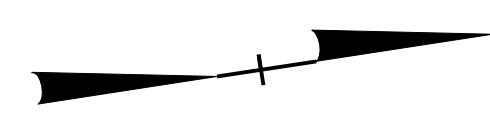
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<p>PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tommy</i> DATE: 5/29/2015 SEAL </p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS</p>
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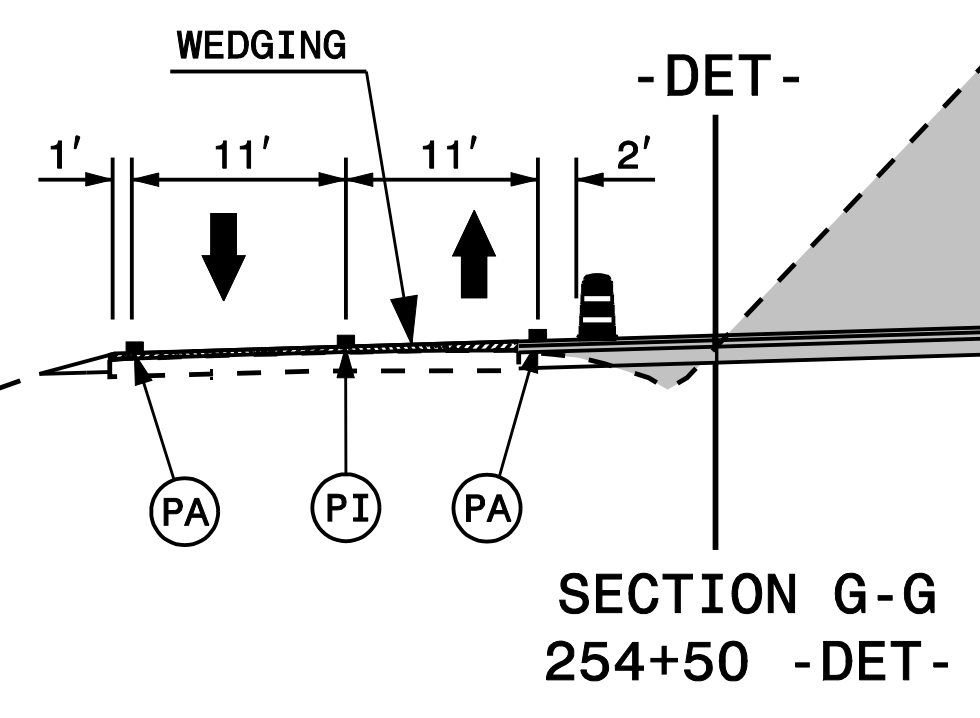
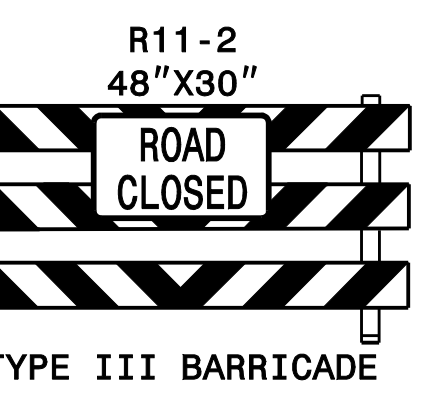


NOTE:
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MARKINGS UNLESS OTHERWISE NOTED

<p>PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tommy</i> DATE: 5/29/2015</p> <p>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465 TIM ARE</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS</p>
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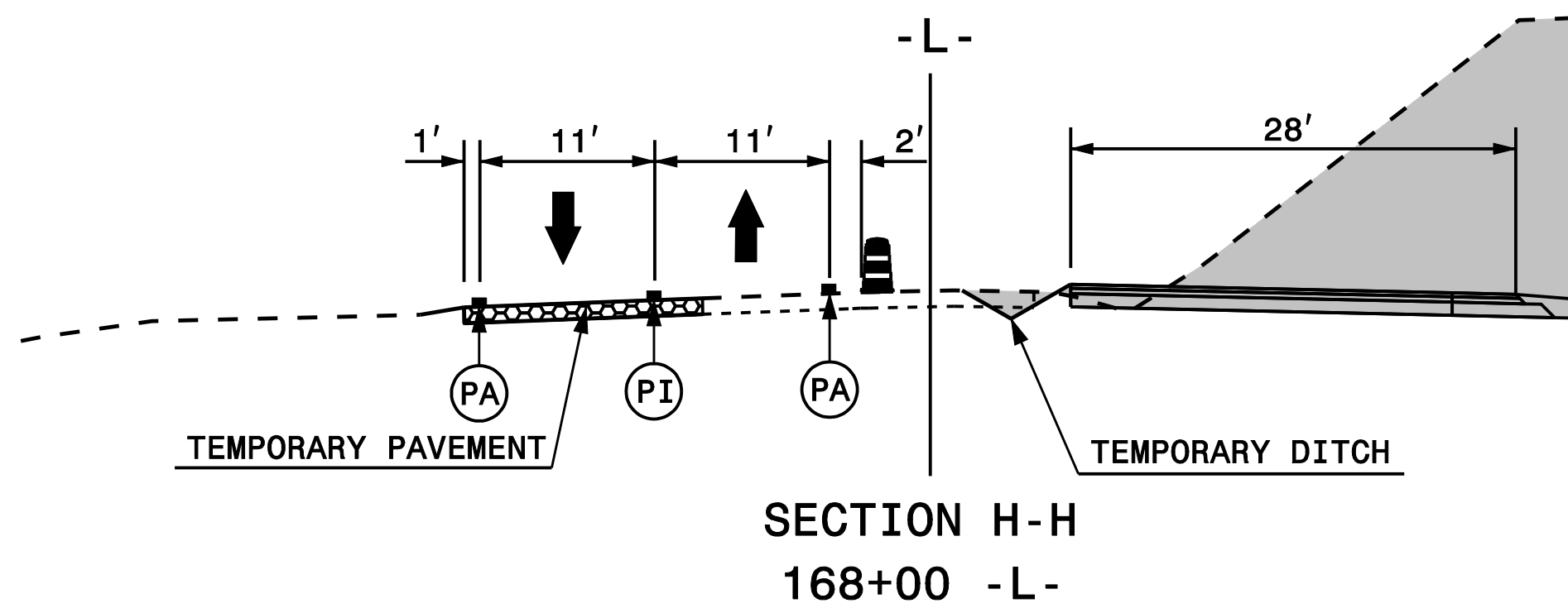
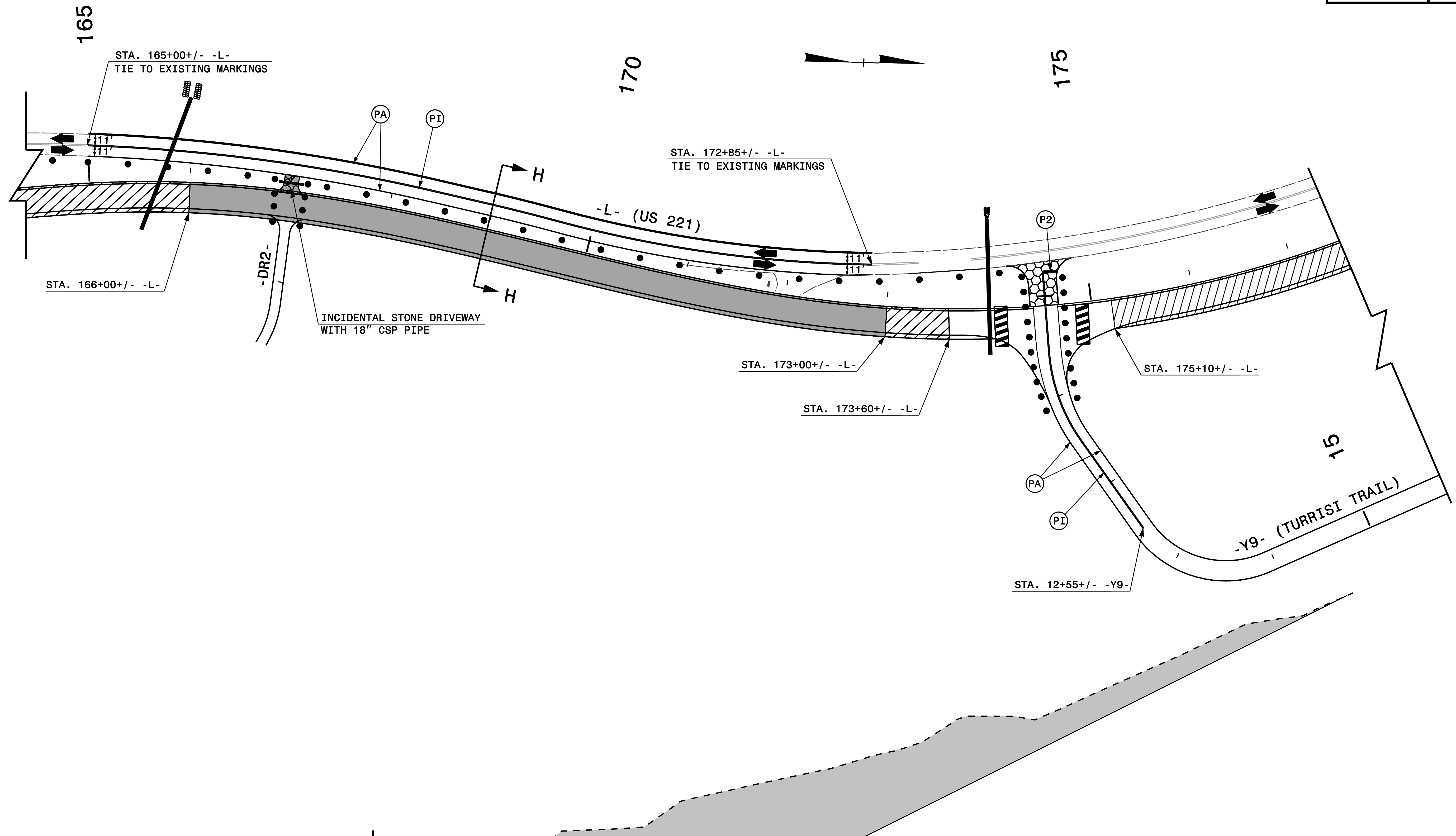


MATCHLINE SEE SHEET TMP-10
-DET- STA. 253+00



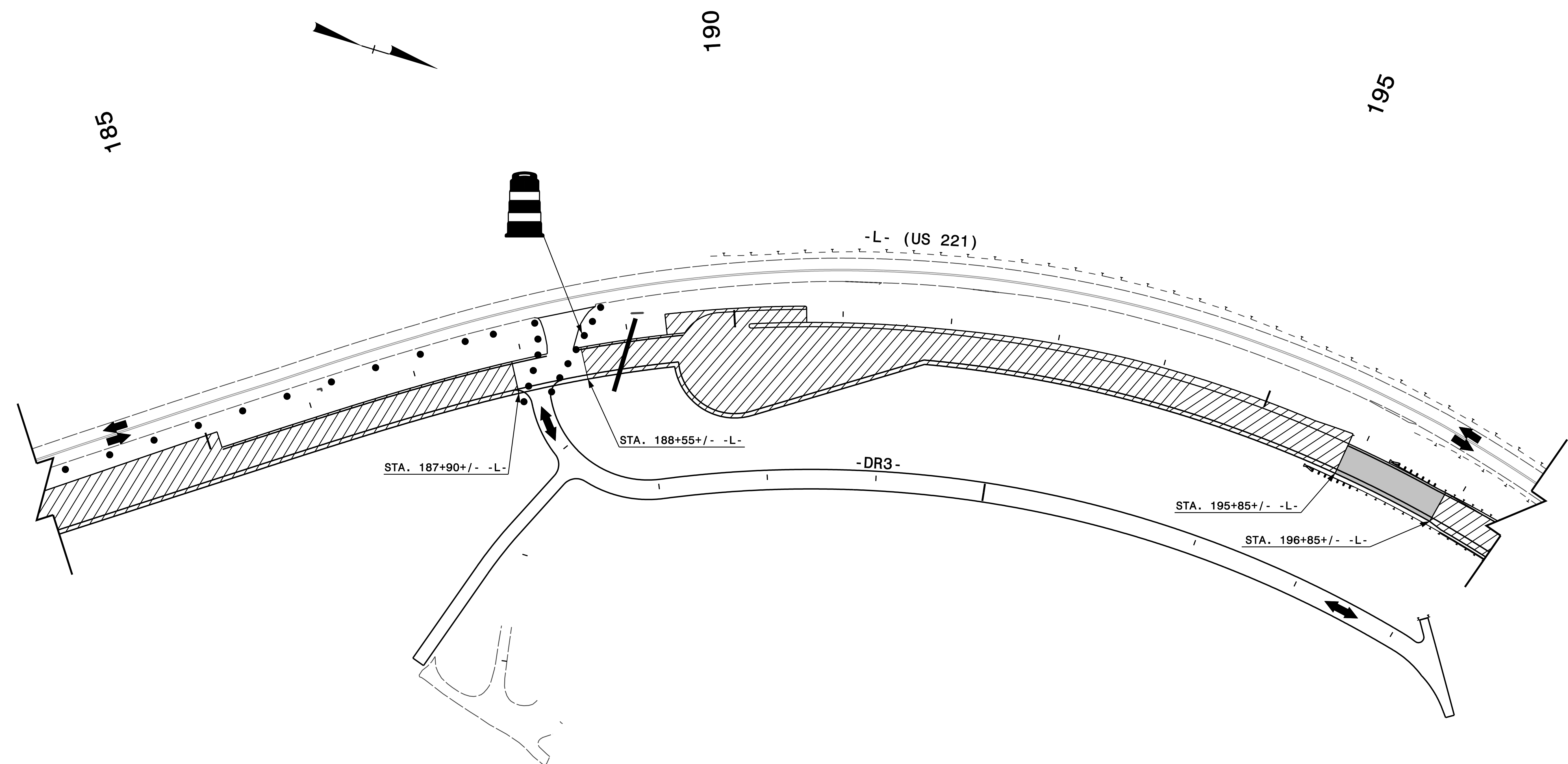
NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING
MARKINGS UNLESS OTHERWISE NOTED

<p>PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Jan Gray</i> DATE: 5/7/2015 SEAL </p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS</p>
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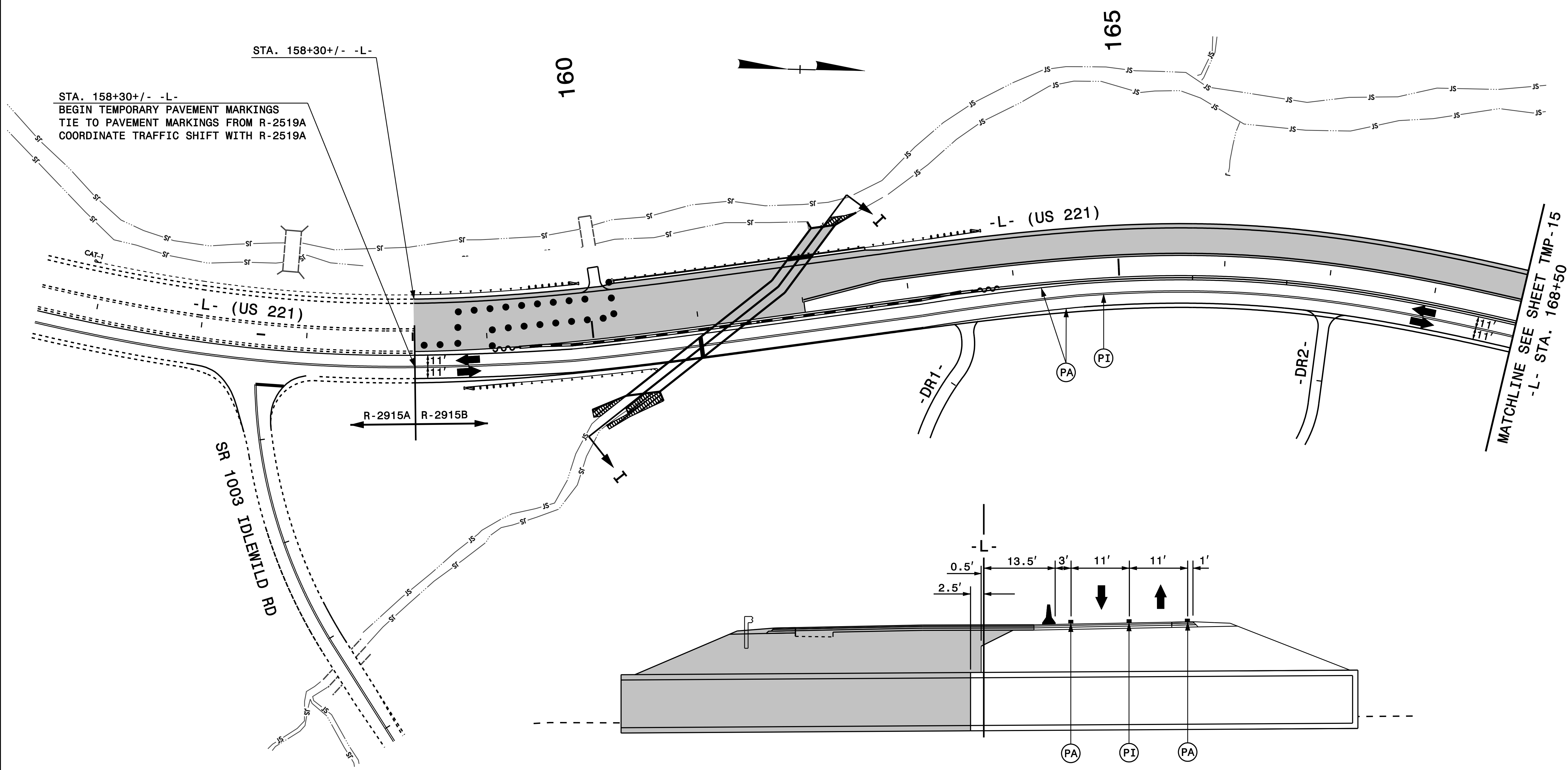
NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING
MARKINGS UNLESS OTHERWISE NOTED

PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS	APPROVED: <i>[Signature]</i> DATE: 5/29/2015	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS
	SEAL 		



NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING
MARKINGS UNLESS OTHERWISE NOTED

<p>PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>[Signature]</i> DATE: 5/7/2013 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465 TIM ARE</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN PHASE I DETAILS</p>
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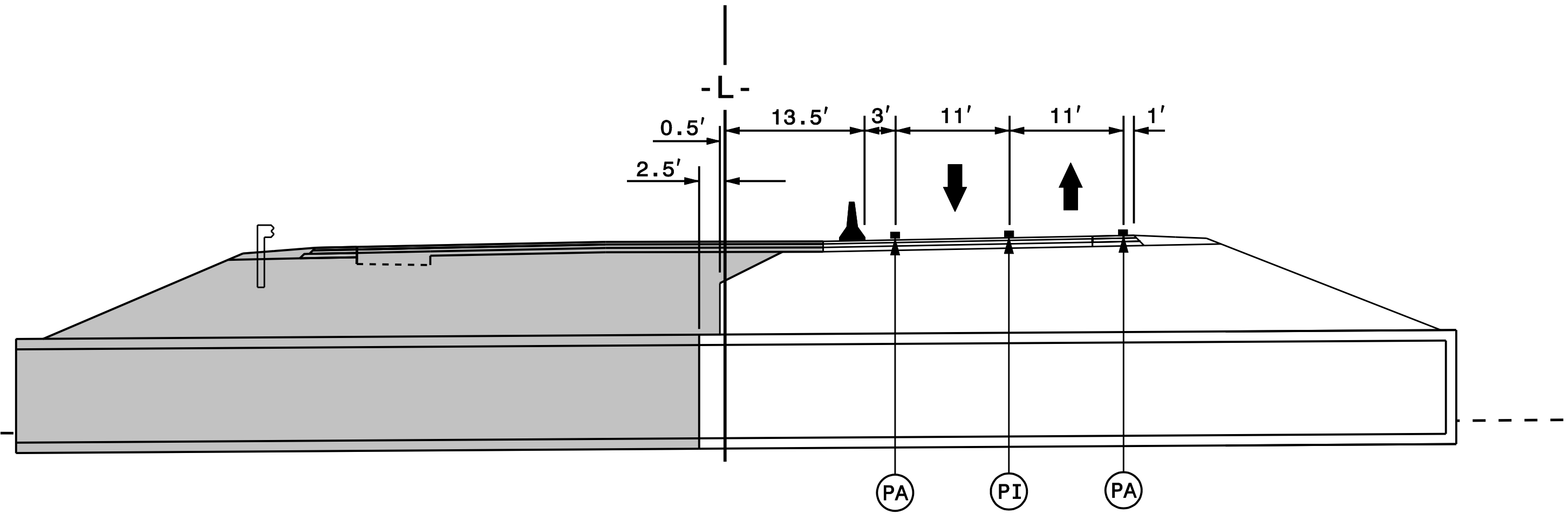
STA. 158+30+/- -L-
 BEGIN TEMPORARY PAVEMENT MARKINGS
 TIE TO PAVEMENT MARKINGS FROM R-2519A
 COORDINATE TRAFFIC SHIFT WITH R-2519A

R-2915A R-2915B

SR 1003 IDLEWILD RD

-L- (US 221)

MATCHLINE SEE SHEET TMP-15
 -L- STA. 168+50



SECTION I-I
 161+50+/- -L-

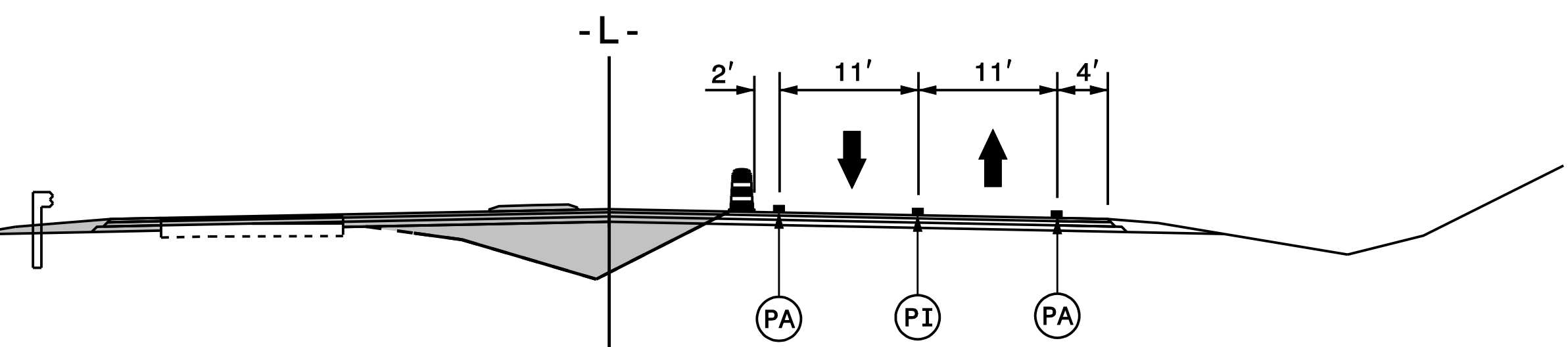
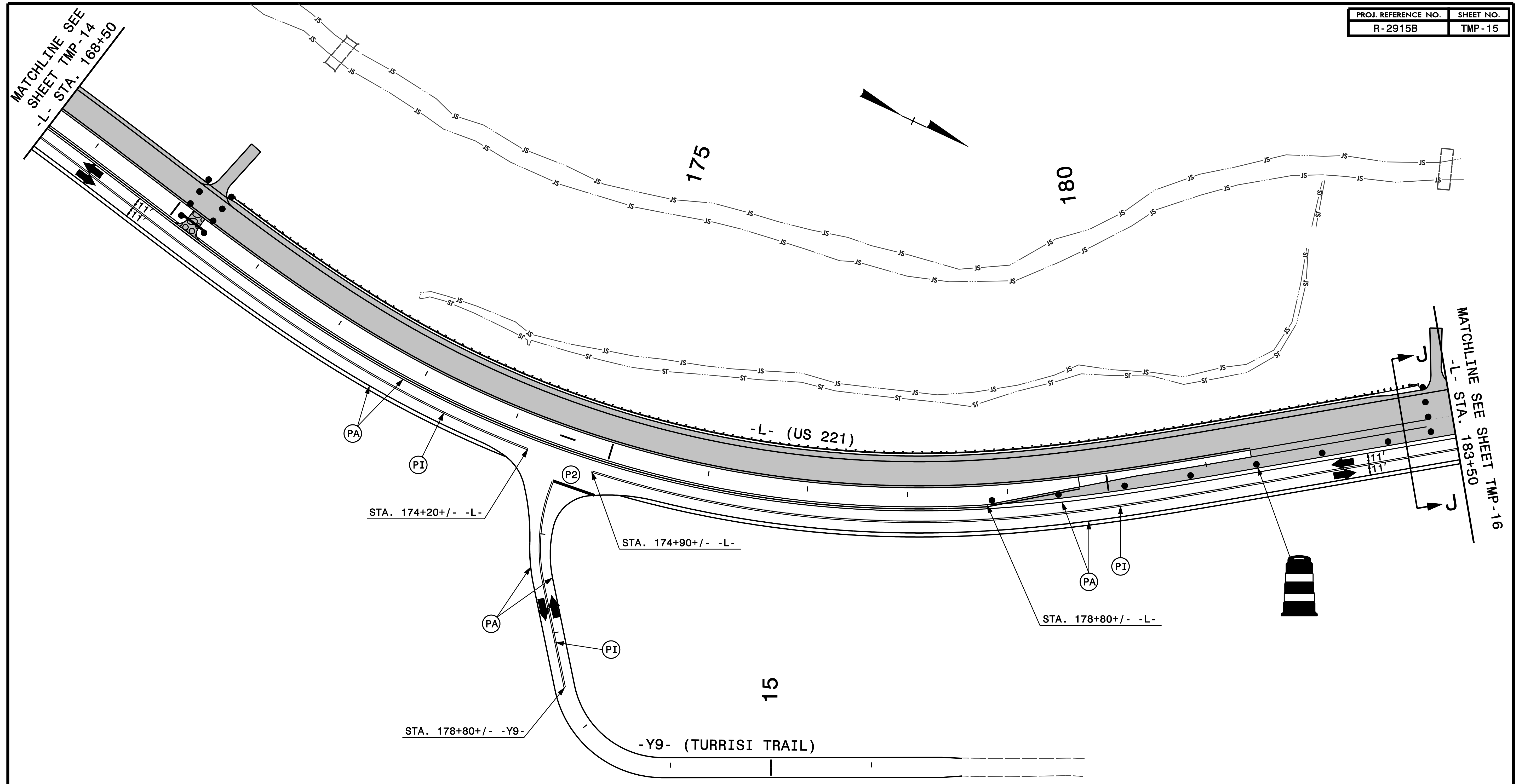
NOTE:
 ALL PAVEMENT MARKINGS ARE EXISTING
 MARKINGS UNLESS OTHERWISE NOTED

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

APPROVED: *[Signature]* DATE: 5/7/2015
 SEAL
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 SEAL 025465
 TIM ARE

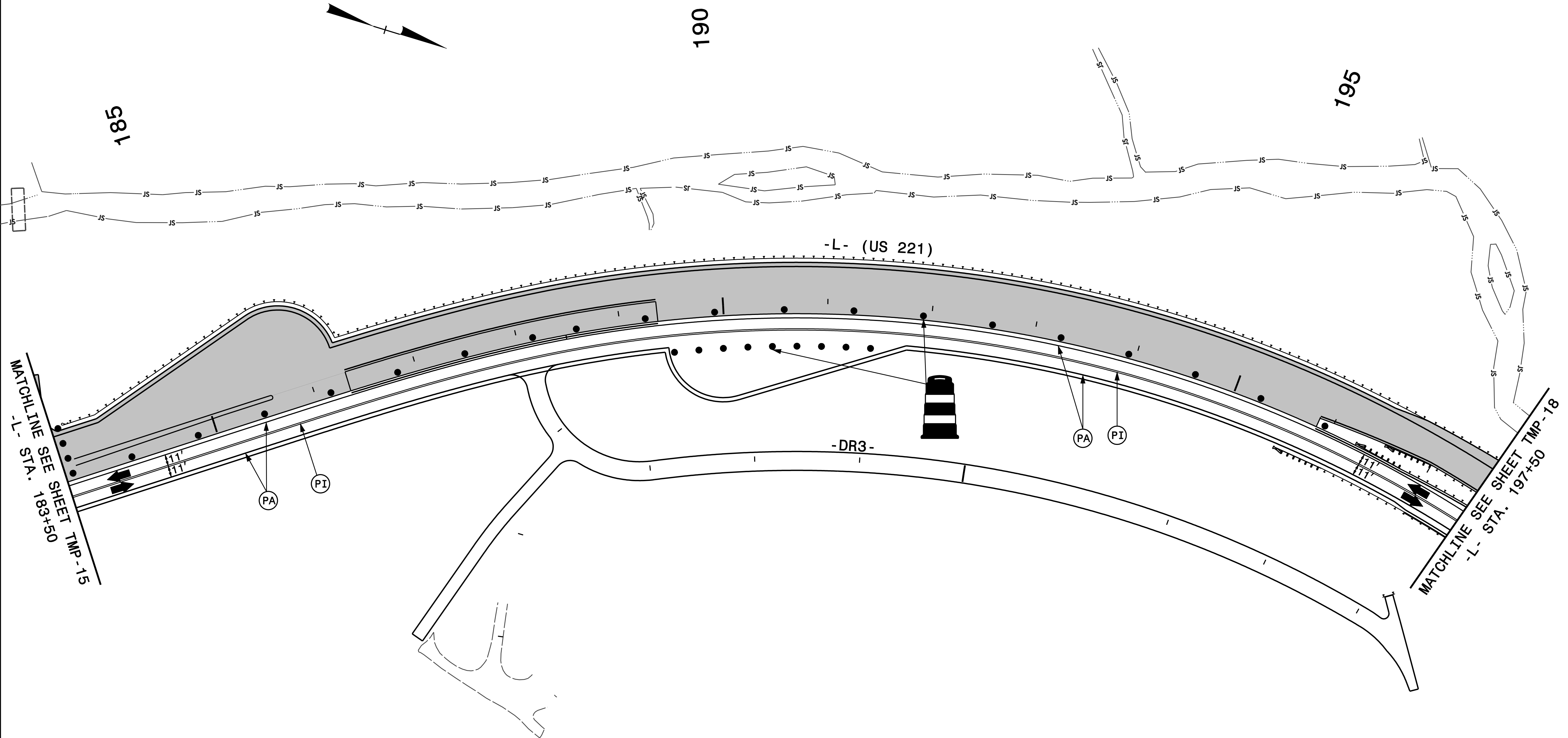
DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

TRANSPORTATION
 MANAGEMENT PLAN
 PHASE II DETAILS

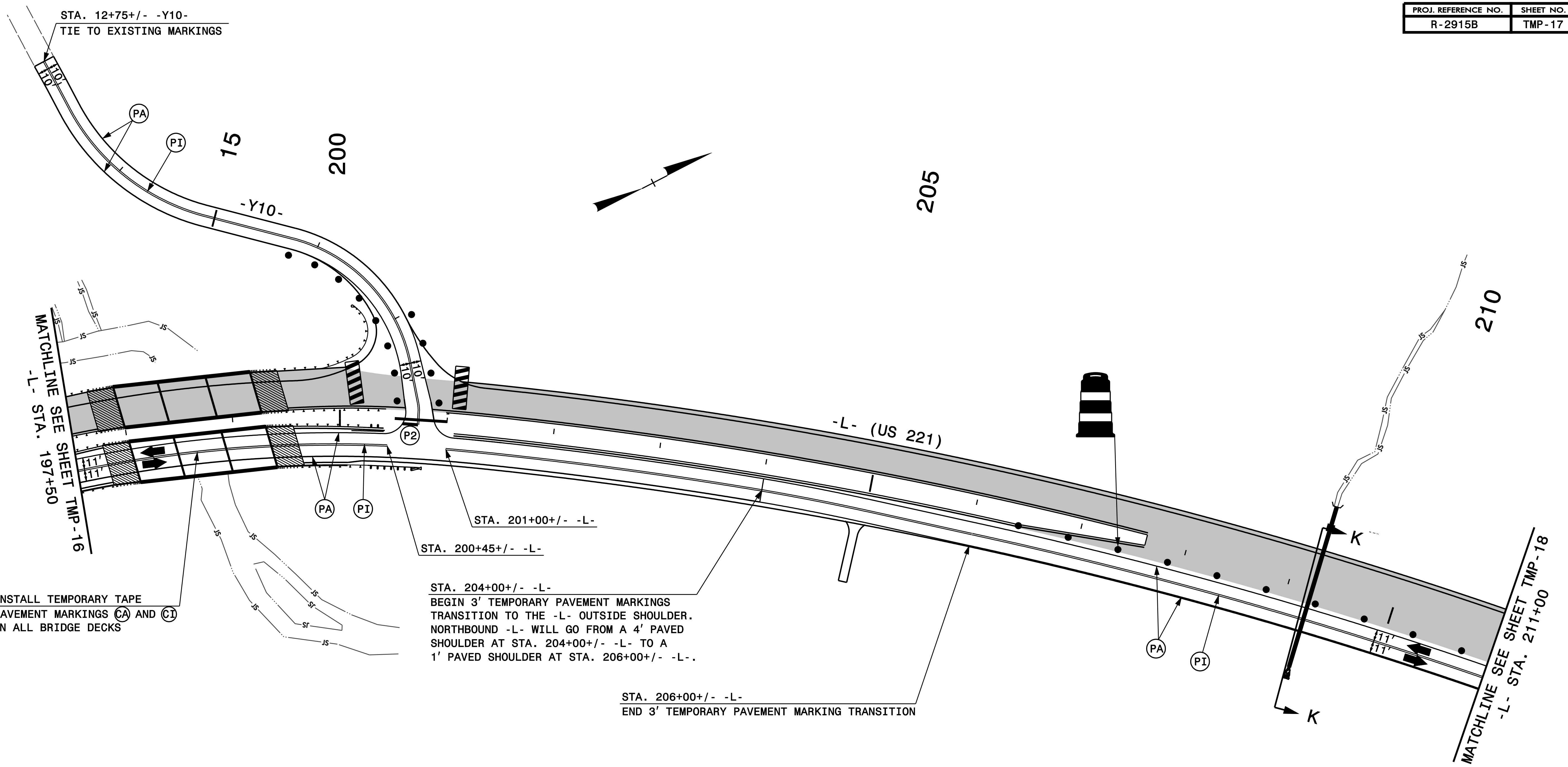


SECTION J-J
183+00 -L-

<p>PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tommy</i> DATE: 5/7/2015 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER TIM ARE</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN PHASE II DETAILS</p>
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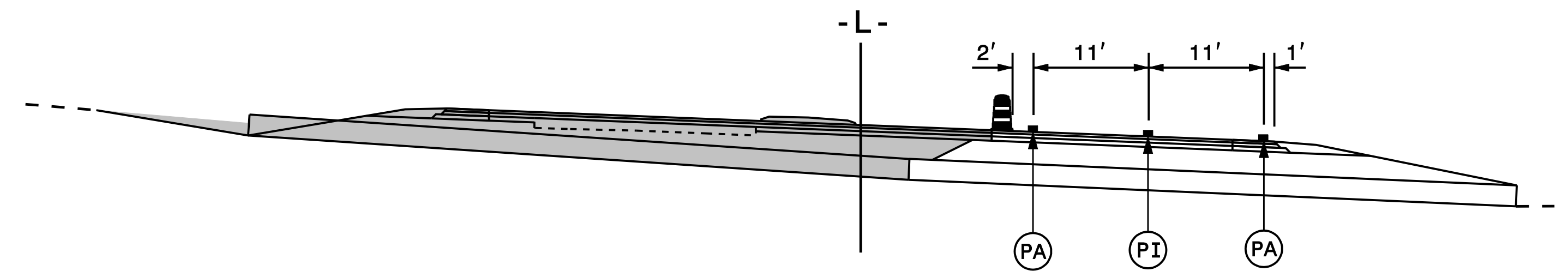
<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>[Signature]</i> DATE: 9/7/2015</p> <p>SEAL</p>		<p>TRANSPORTATION MANAGEMENT PLAN PHASE II DETAILS</p>
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INSTALL TEMPORARY TAPE PAVEMENT MARKINGS (CA) AND (CI) ON ALL BRIDGE DECKS

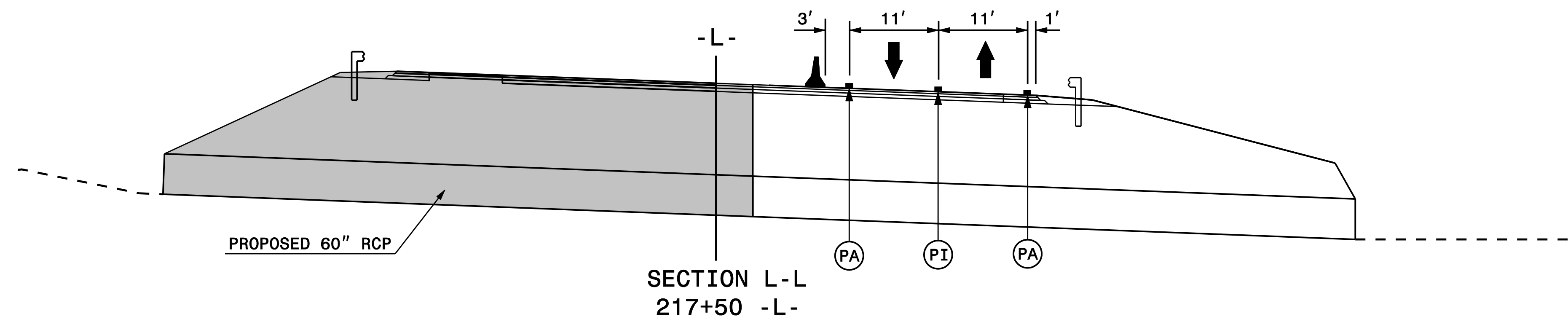
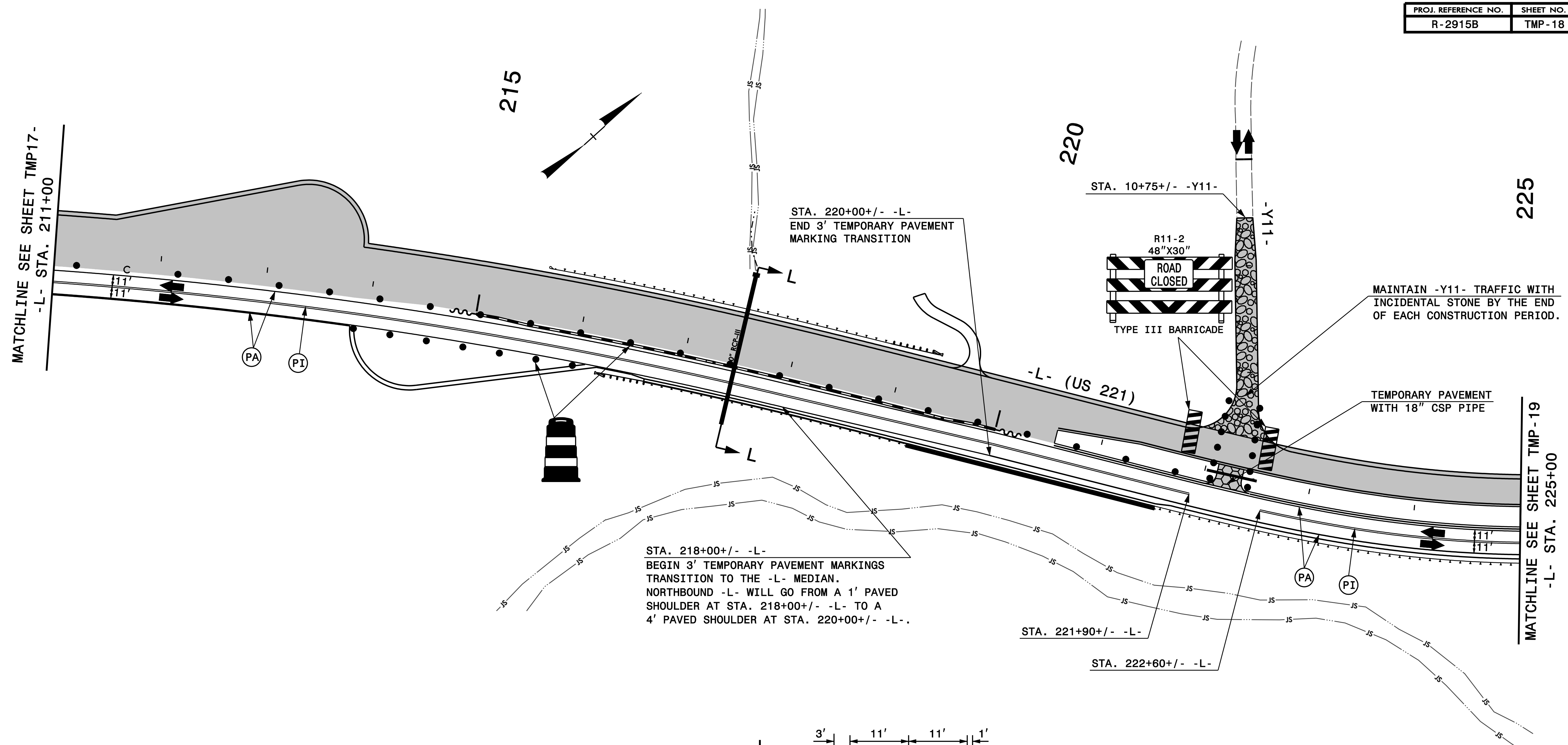
STA. 204+00 +/- -L-
BEGIN 3' TEMPORARY PAVEMENT MARKINGS TRANSITION TO THE -L- OUTSIDE SHOULDER. NORTHBOUND -L- WILL GO FROM A 4' PAVED SHOULDER AT STA. 204+00 +/- -L- TO A 1' PAVED SHOULDER AT STA. 206+00 +/- -L-.

STA. 206+00 +/- -L-
END 3' TEMPORARY PAVEMENT MARKING TRANSITION

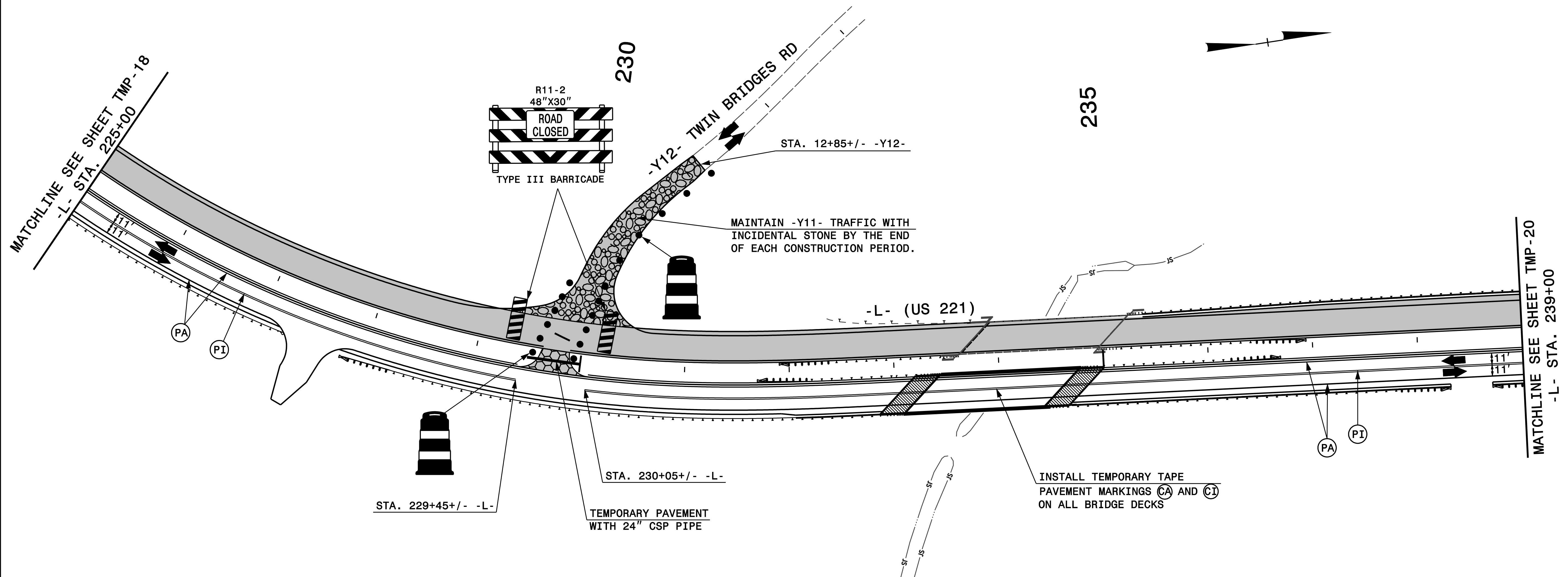


SECTION K-K
209+25 -L-

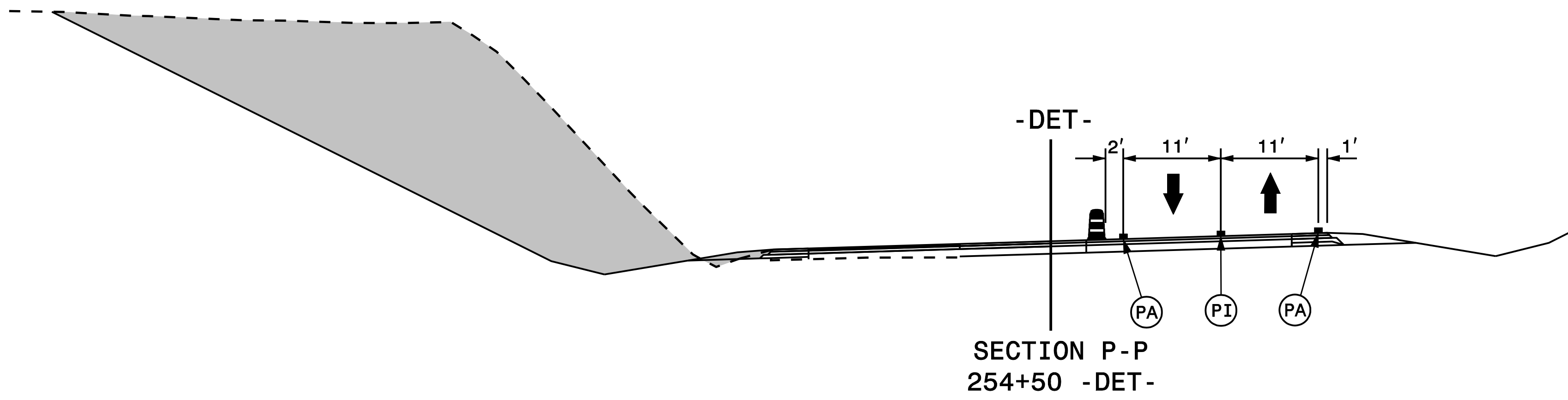
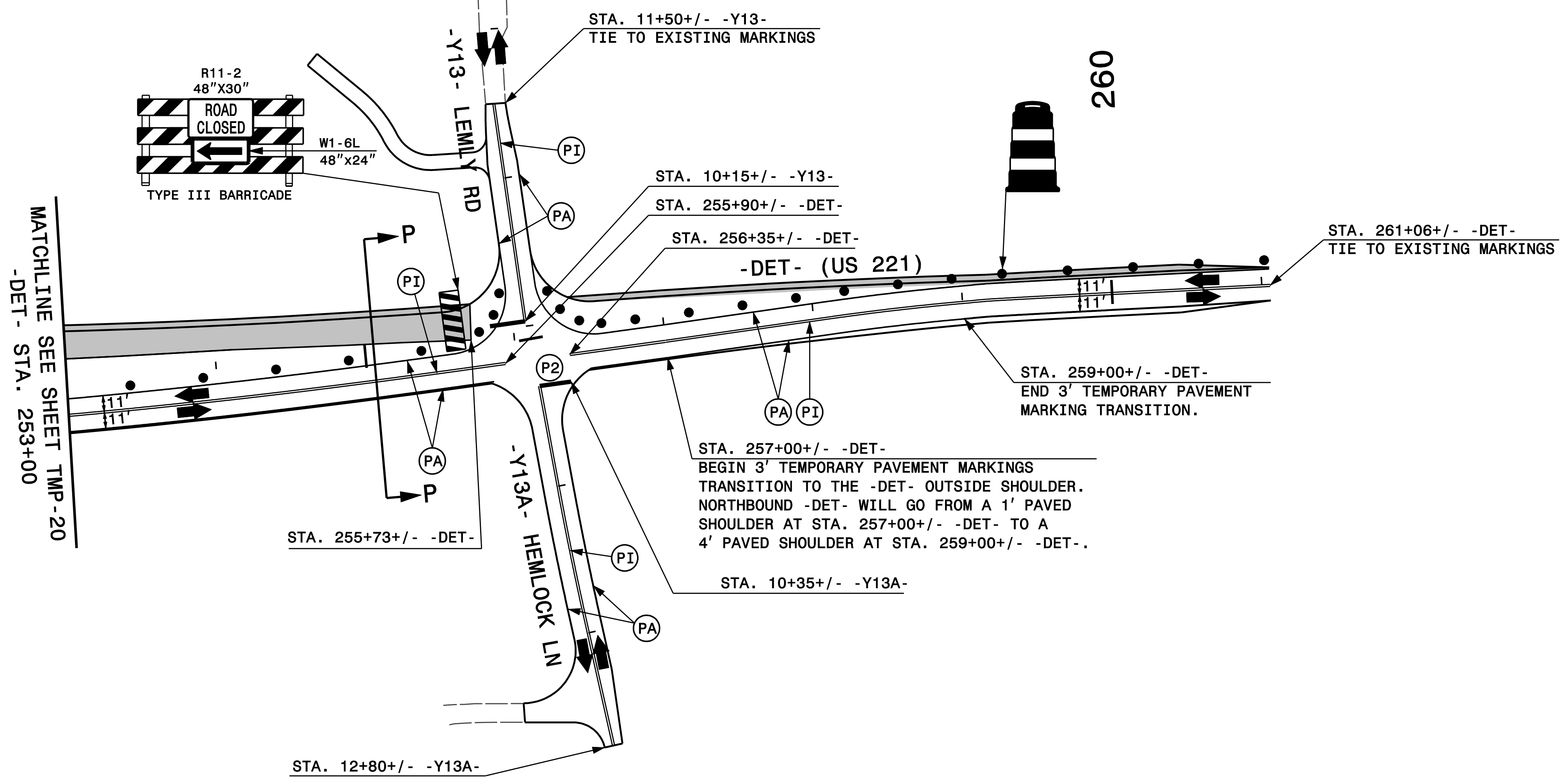
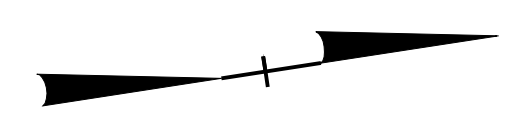
<p>PLAN PREPARED IN THE OFFICE OF: PROGRESSIVE DESIGN GROUP, INC. ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>Tommy</i> DATE: 5/7/2015 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER TIM ARE</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN PHASE II DETAILS</p>
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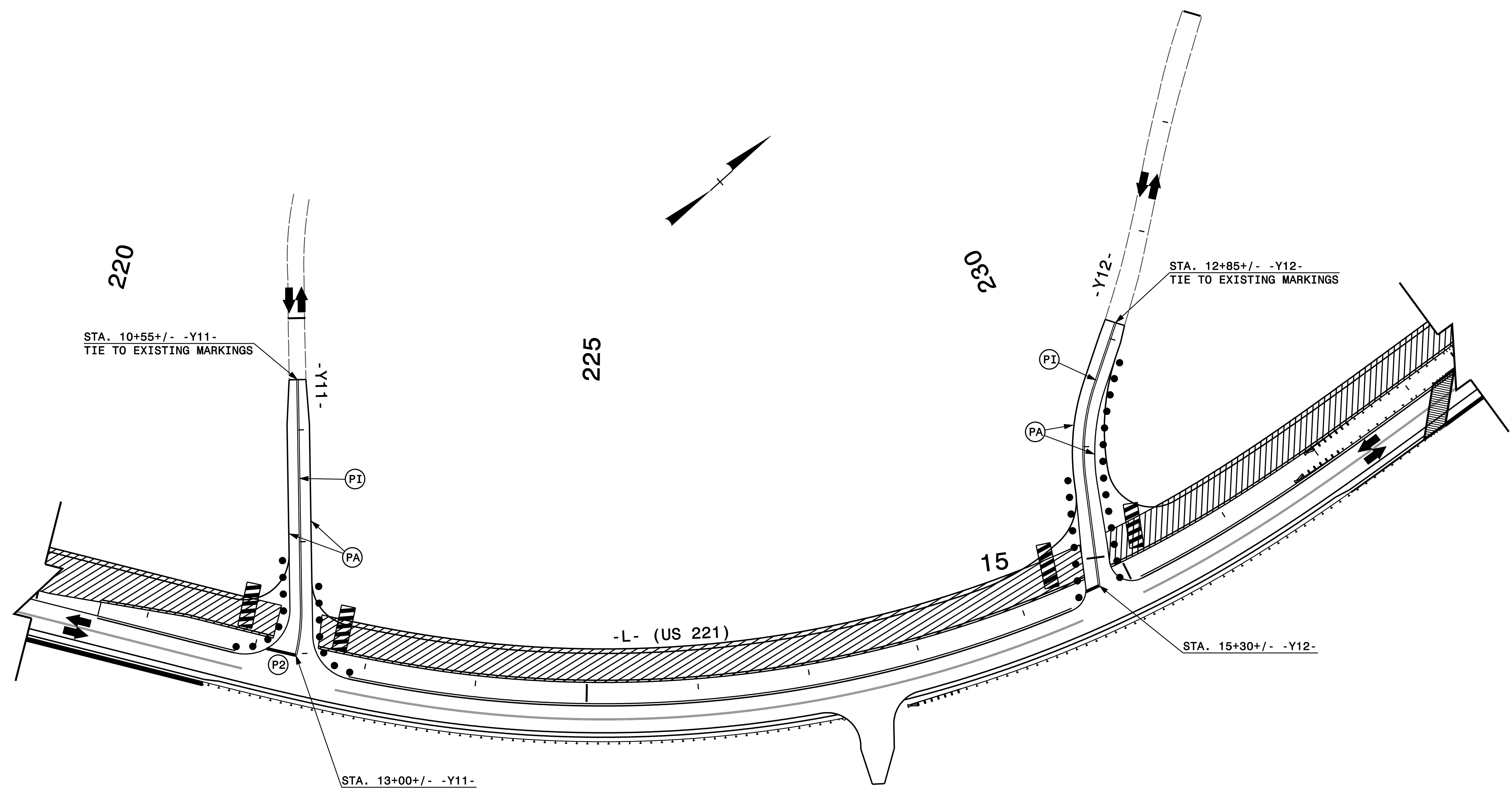
<p>PLAN PREPARED IN THE OFFICE OF:</p> <p>PROGRESSIVE DESIGN GROUP, INC.</p> <p>ENGINEERS • CONSULTANTS</p>	<p>APPROVED: <i>[Signature]</i> DATE: 5/7/2015</p> <p>SEAL</p> <p>NORTH CAROLINA PROFESSIONAL ENGINEER</p> <p>SEAL 025465</p> <p>TIM ARE</p>	<p>DIVISION OF HIGHWAYS</p> <p>STATE OF NORTH CAROLINA</p> <p>DEPARTMENT OF TRANSPORTATION</p> <p>WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN</p> <p>PHASE II DETAILS</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: <i>Tommy</i> DATE: 5/7/2013</p> <p>SEAL</p> <p>NORTH CAROLINA PROFESSIONAL ENGINEER TIM ARE</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN PHASE II DETAILS</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: <i>Tommy</i> DATE: 5/7/2015</p> <p>SEAL</p> <p>NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025465 TIM ARE</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>TRANSPORTATION MANAGEMENT PLAN PHASE II DETAILS</p>
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NOTE:
ALL PAVEMENT MARKINGS ARE EXISTING
MARKINGS UNLESS OTHERWISE NOTED

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