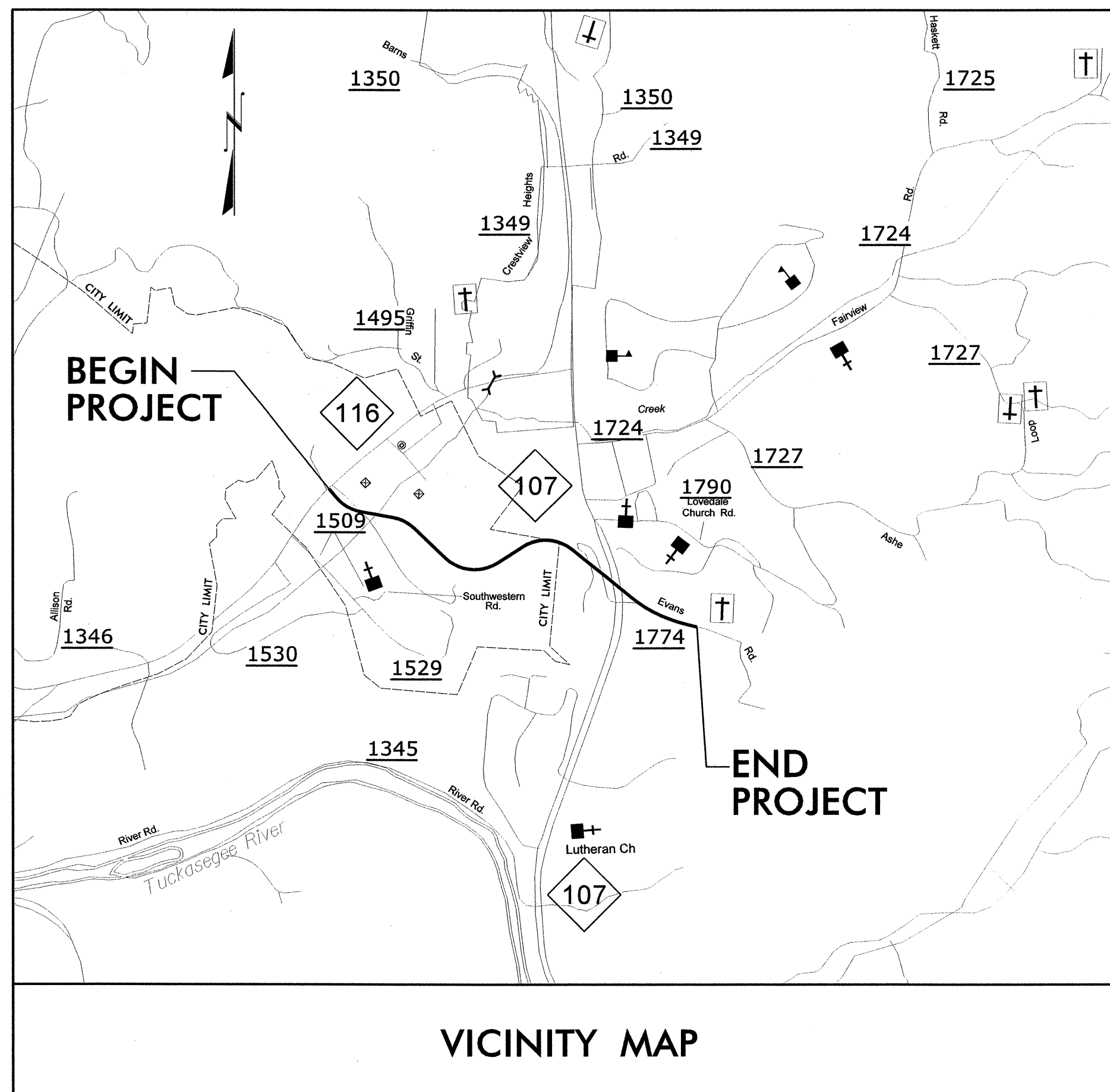
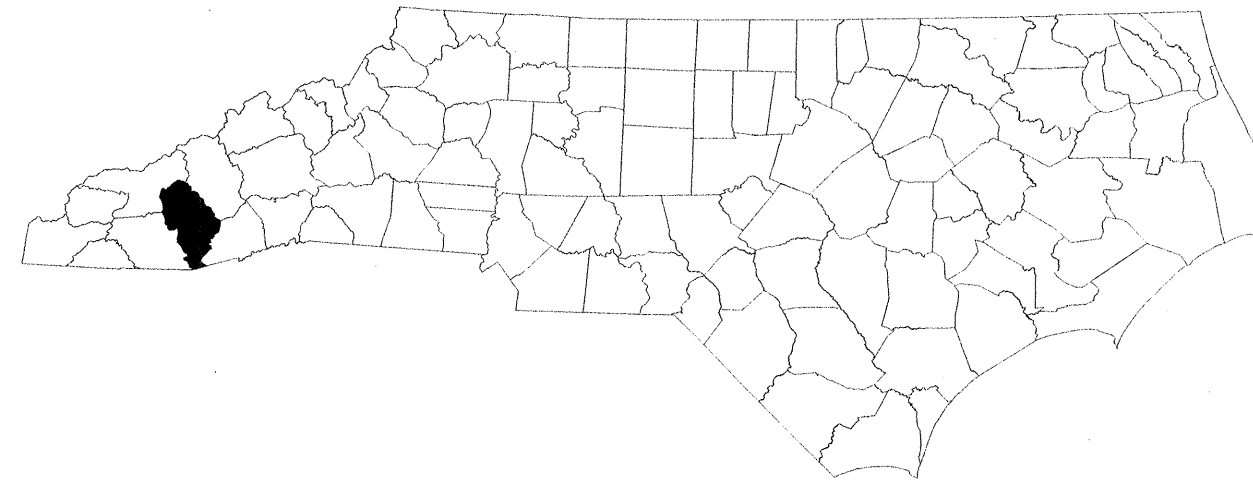


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

JACKSON COUNTY



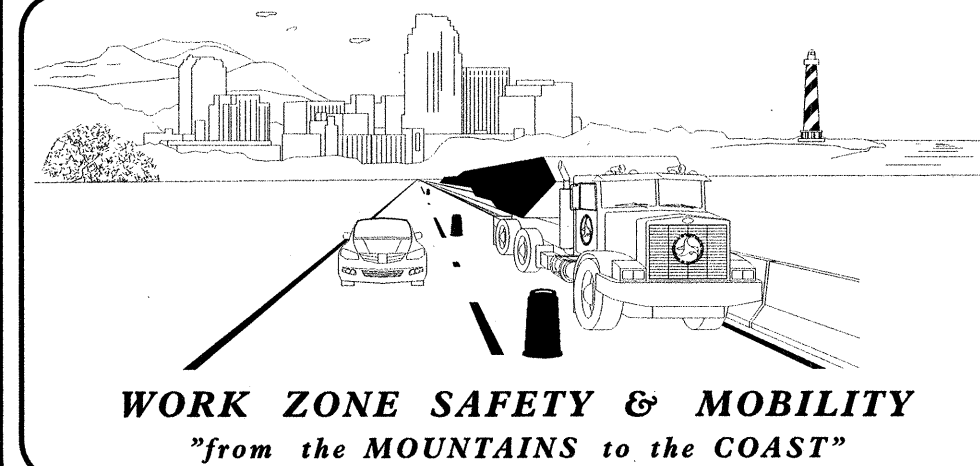
VICINITY MAP

INDEX OF SHEETS

SHEET NO.	TITLE
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TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES AND LOCAL NOTES)
TMP-2	TRAFFIC CONTROL PHASING
TMP-2A	TEMPORARY SHORING NOTES
TMP-2B	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
TMP-2C	SPECIAL SIGN DESIGNS
TMP-3	PHASE I - OVERVIEW
TMP-3A THRU TMP-3D	PHASE I - STEP 2
TMP-3E	PHASE I - STEP 3
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TMP-4D	PHASE I - STEP 5C PHASE II - STEPS 2,3,4
TMP-4E THRU TMP-4F	PHASE II - STEP 2

SHEET NO.
TMP-1

TIP PROJECT: R-5000



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

J. S. BOURNE, PE STATE TRAFFIC MANAGEMENT ENGINEER
G. L. GETTIER, PE TRAFFIC CONTROL PROJECT ENGINEER
J. W. GILSTRAP TRAFFIC CONTROL PROJECT DESIGN ENGINEER
TRAFFIC CONTROL DESIGN ENGINEER

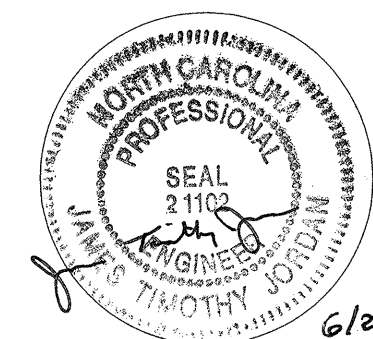
PLANS PREPARED FOR NCDOT BY:

J. T. JORDAN, PE PROJECT ENGINEER
A. D. SARVIS, PE DESIGN ENGINEER
M. A. BALLARD DESIGN TECHNICIAN

Hatch Mott MacDonald
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Fayetteville, NC 27526
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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	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 & OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
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.
- WORK AREA
- REMOVAL
- CONTINUOUS CONSTRUCTION
- USER DEFINED (IF NEEDED)

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

- PA PAINT WHITE EDGELINE (4")
- PB PAINT YELLOW EDGELINE (4")
- PC PAINT 10 FT. WHITE SKIP (4")
- PD PAINT 2 FT. WHITE MINISKIP (4")
- PE PAINT WHITE SOLID LANE LINE (4")
- PI PAINT YELLOW DOUBLE CENTER (4")
- PP PAINT YELLOW DIAGONAL (8")
- P8 PAINT 2 FT.-6 FT./SP WHITE MINISKIP (4")
- QA PAINT LEFT TURN ARROW
- QH PAINT HANDICAP PARKING

TEMPORARY RAISED PAVEMENT MARKERS

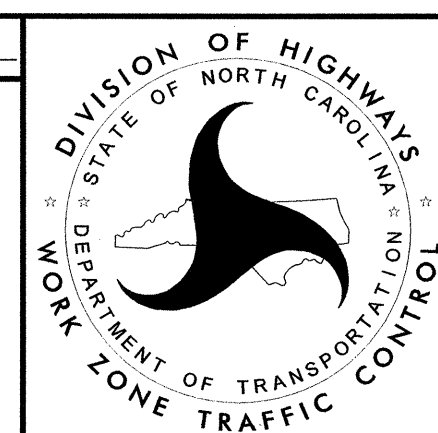
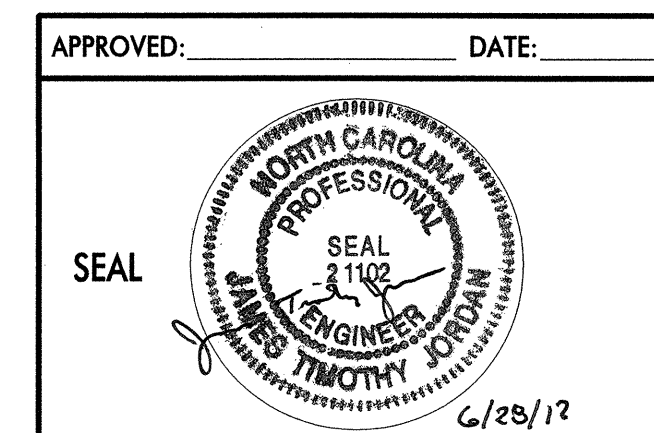
- MH YELLOW & YELLOW

PLANS PREPARED BY:

**Hatch Mott
MacDonald**

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**ROADWAY STANDARD
DRAWINGS & LEGEND**

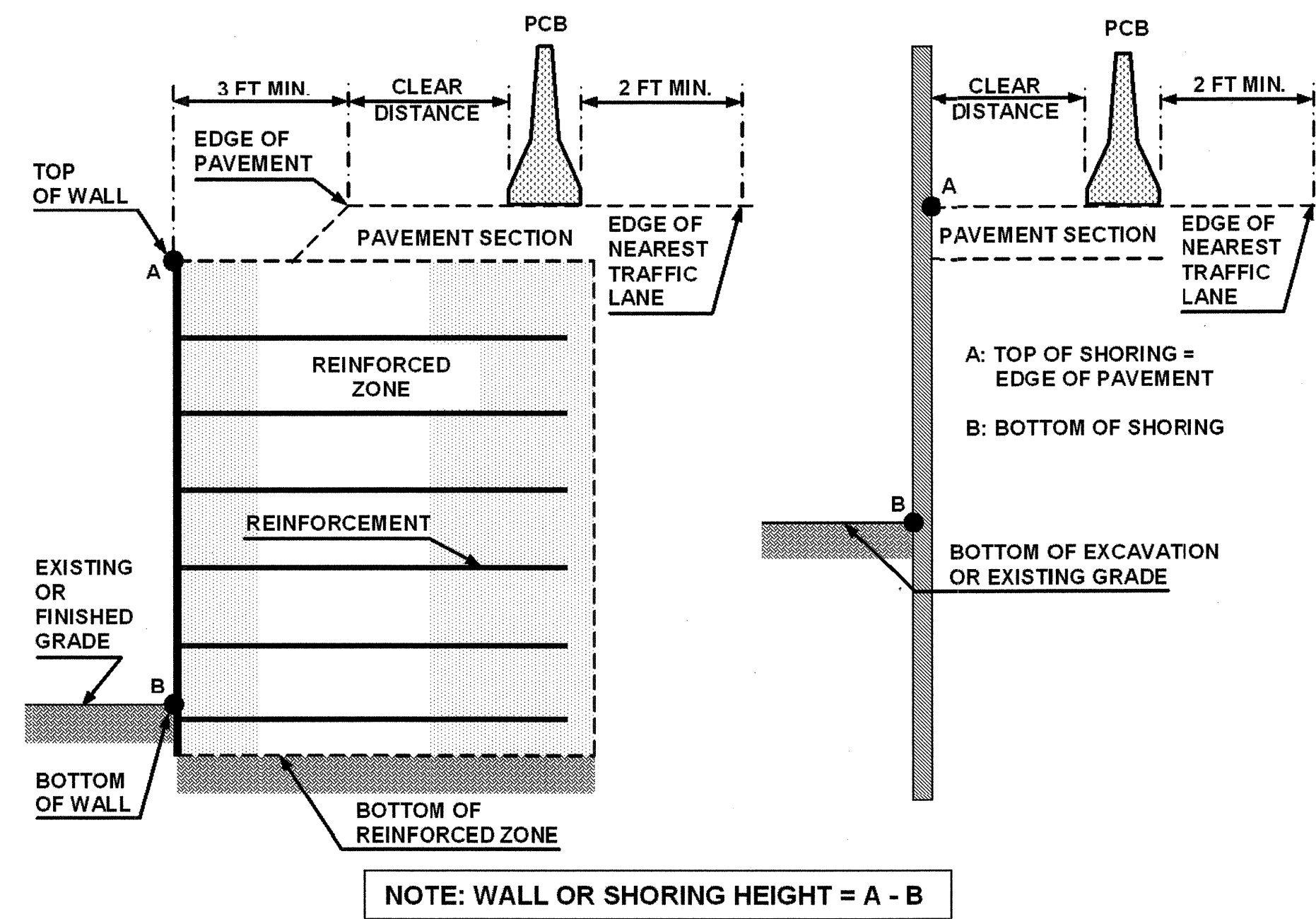


FIGURE A

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.

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	
Anchored PCB	Asphalt	All Offsets	24 for All Design Speeds					
		Concrete (including bridge approach slabs)	All Offsets	12 for All Design Speeds				

* See Figure Below

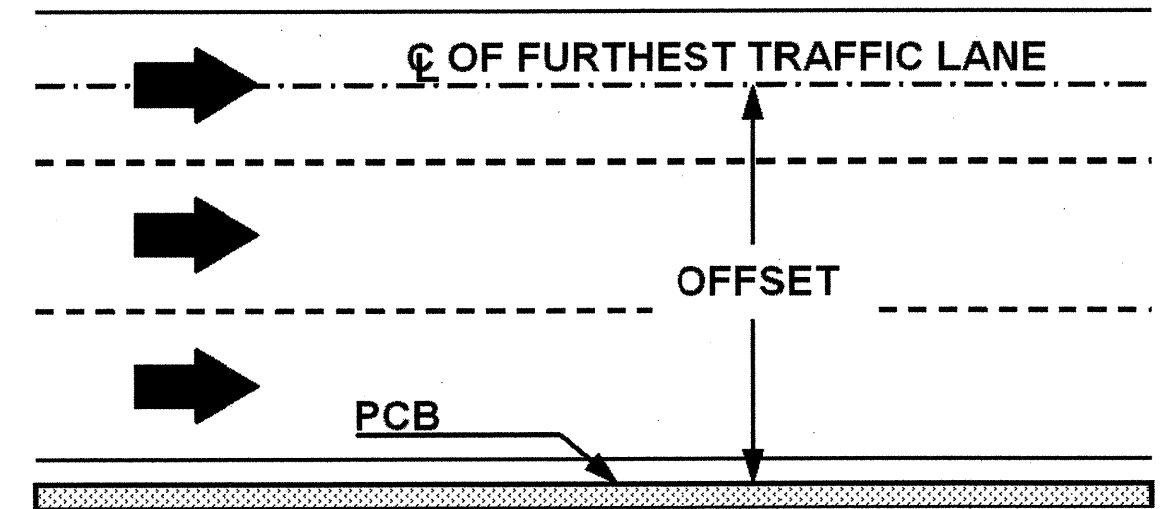
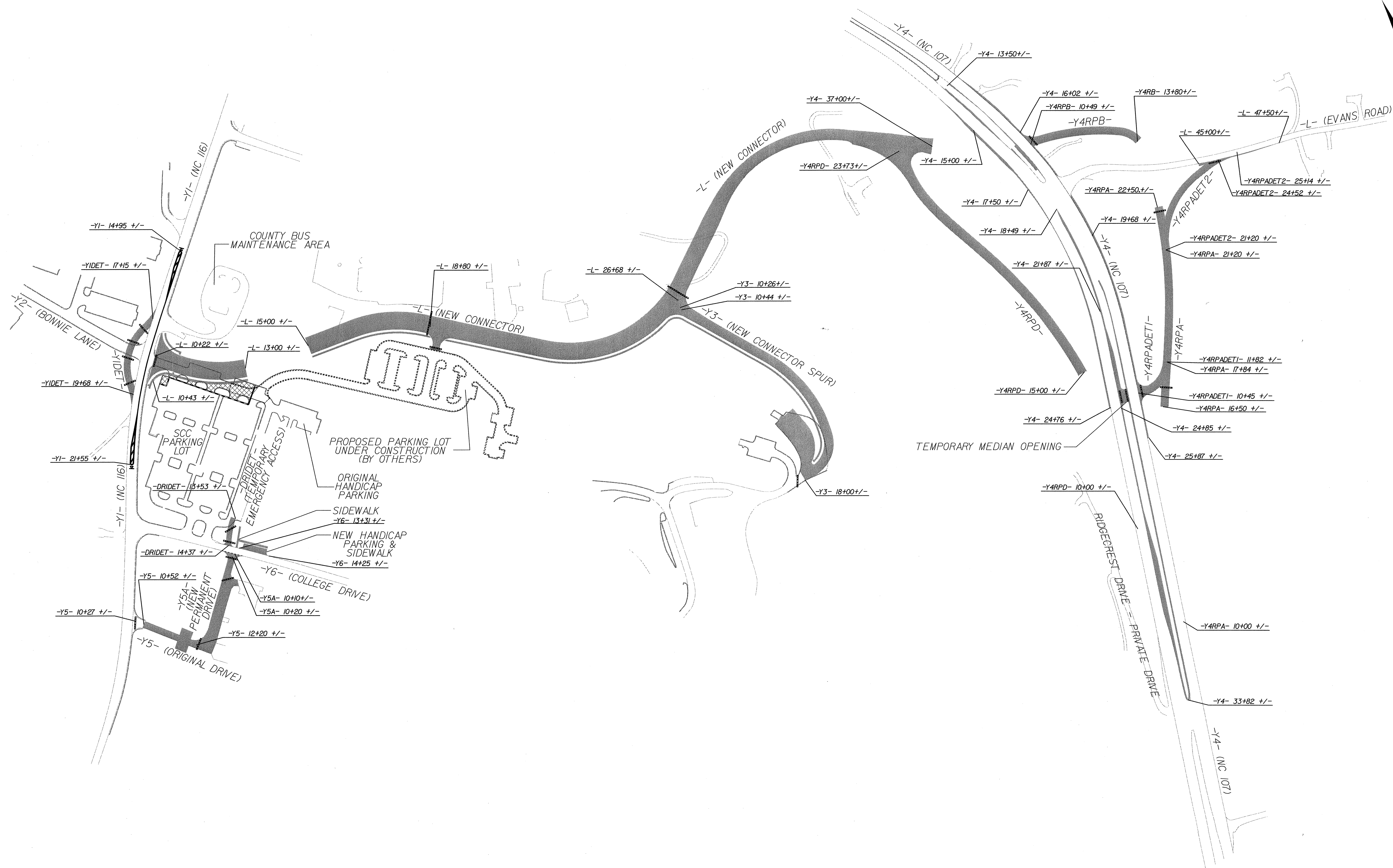


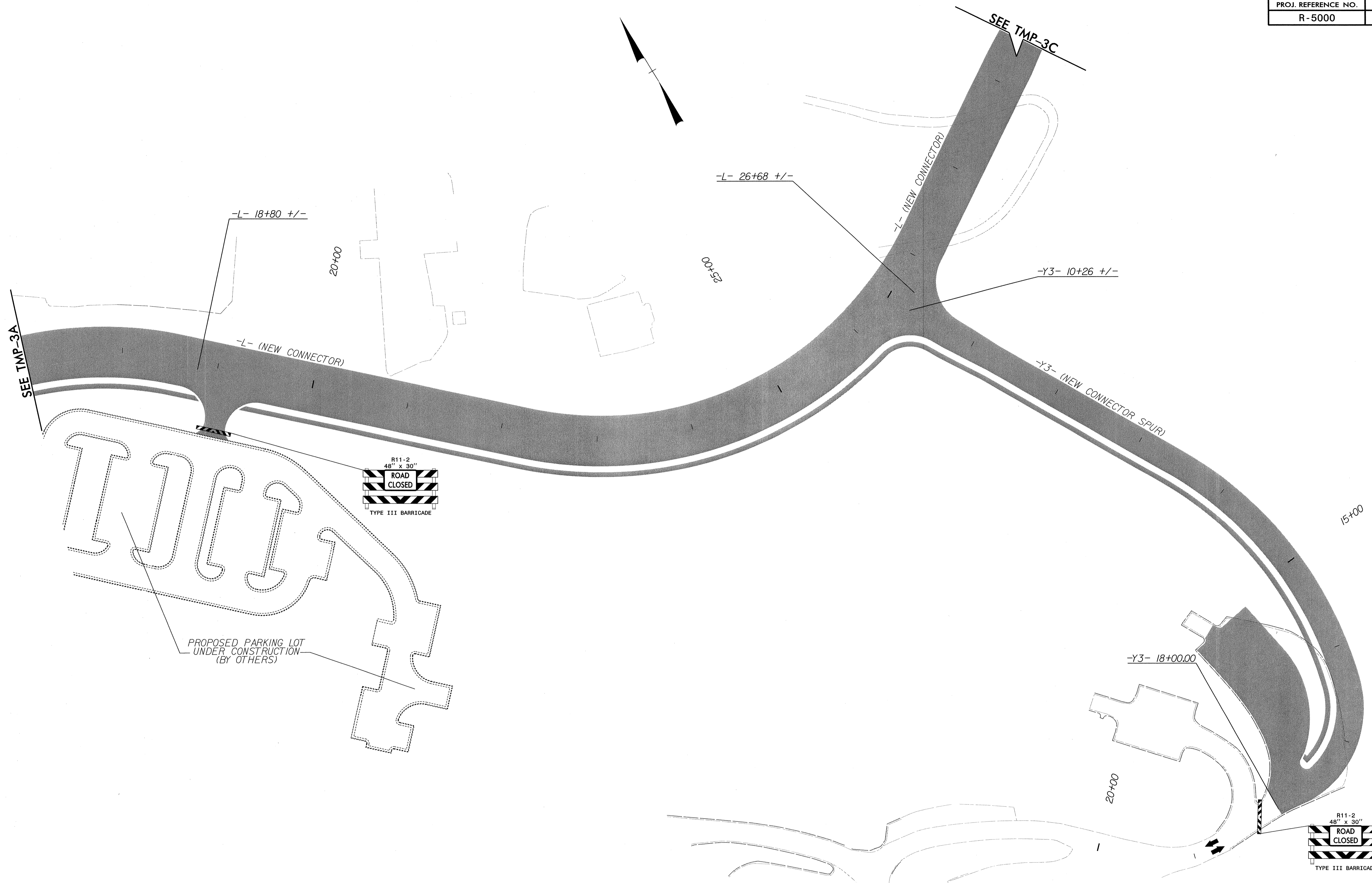
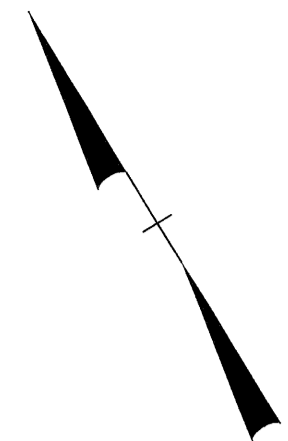
FIGURE B

 Hatch Mott MacDonald PO Box 700 Raleigh-Virginia, NC 27526 (919) 552-2253 (919) 552-2254 (Fax) www.hatchmott.com LICENSE NO. F-0669	APPROVED: _____ DATE: _____ SEAL 8/23/12	 DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
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SEAL	6/28/12			



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	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

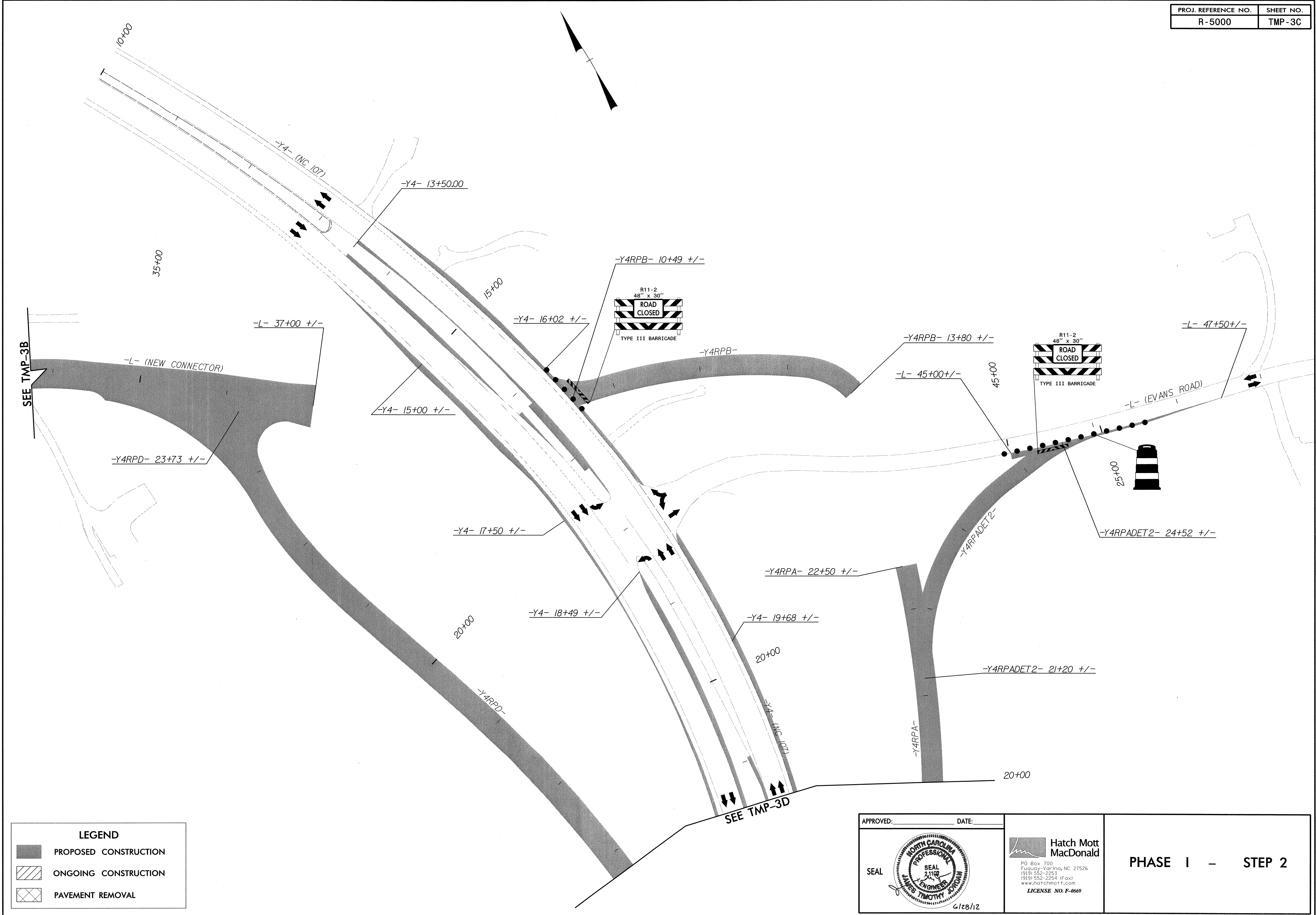
APPROVED:

DATE: 6/28/12

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PHASE I - STEP 2

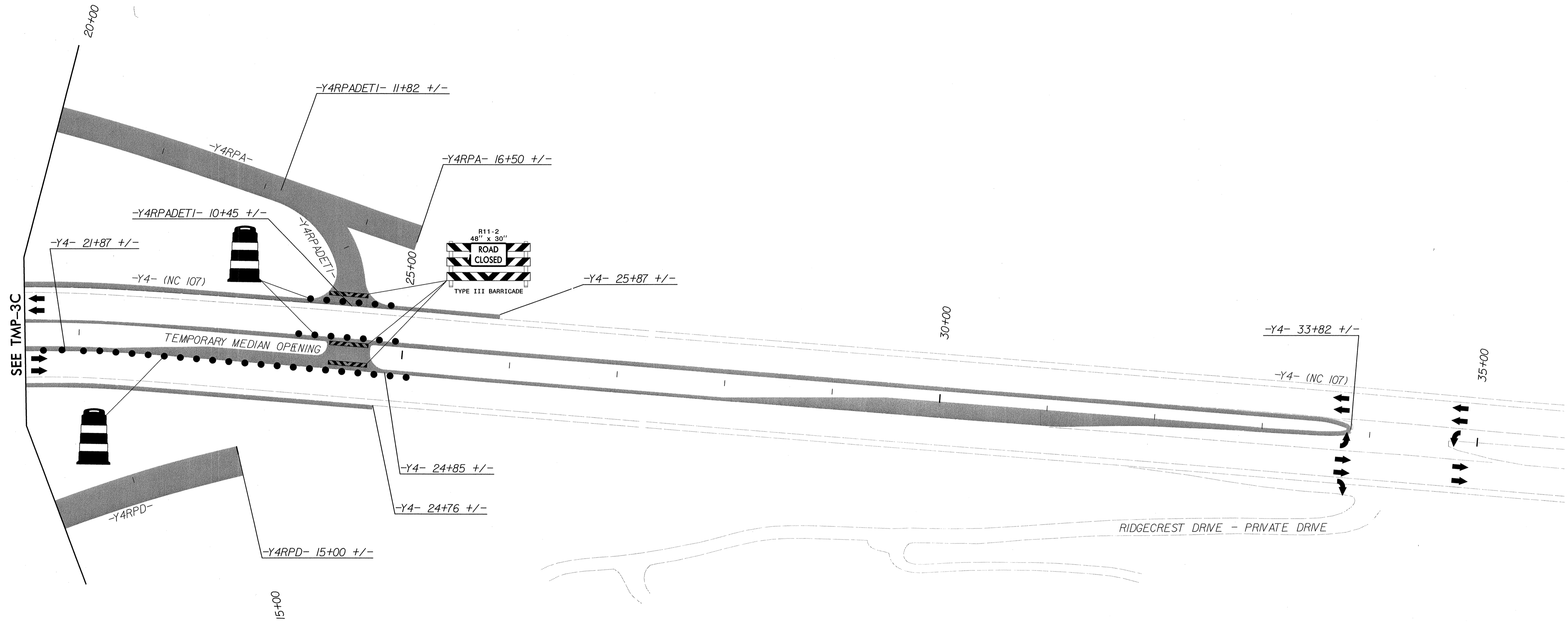
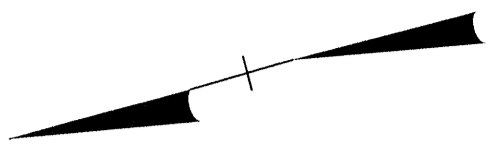
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<p>6/28/12</p>			

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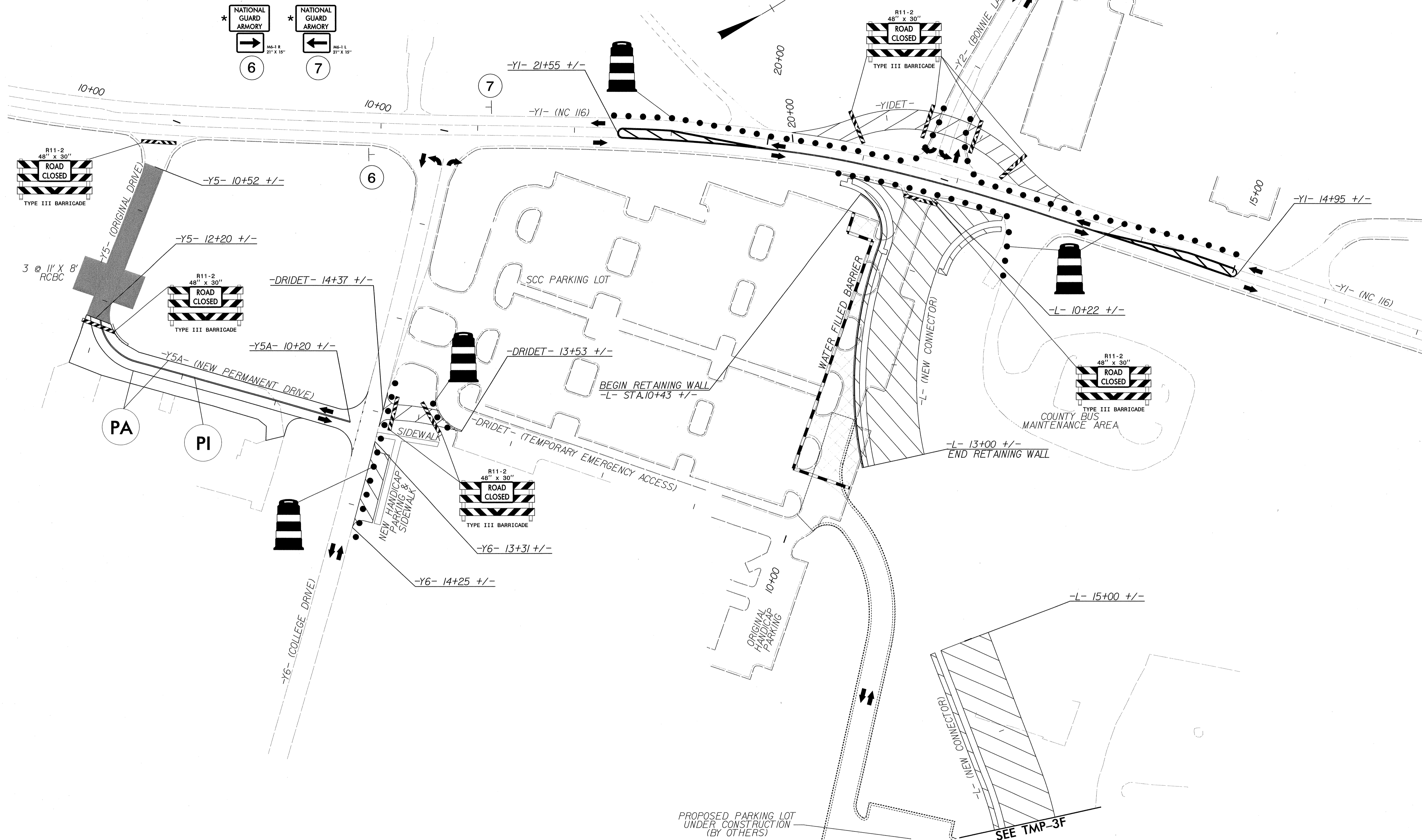
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PHASE I - STEP 2

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*SEE SHEET TMP-2C FOR SPECIAL SIGN DESIGNS



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APPROVED: _____ DATE: _____

SEAL

6/28/12

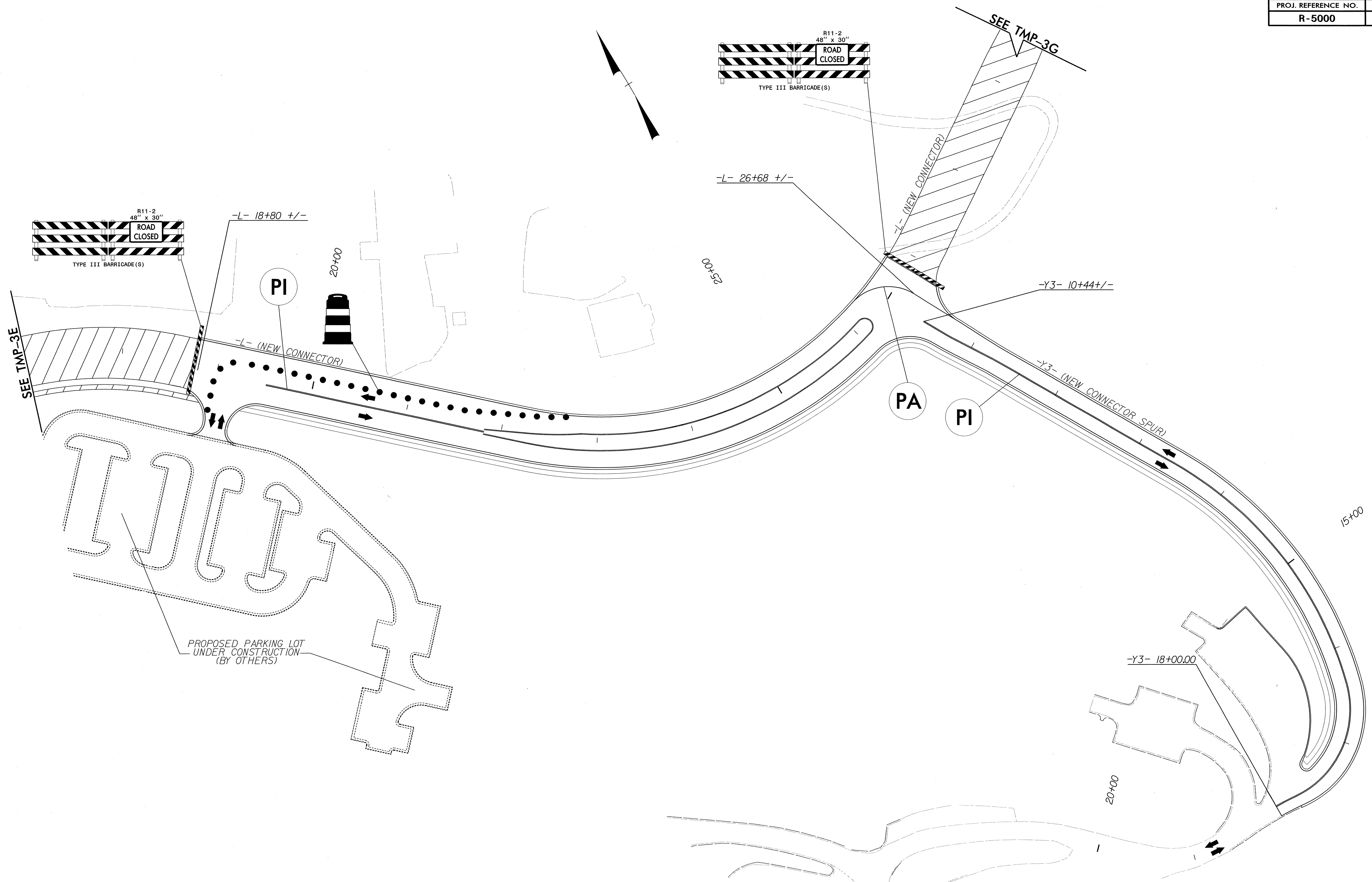
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PHASE I - STEP 3

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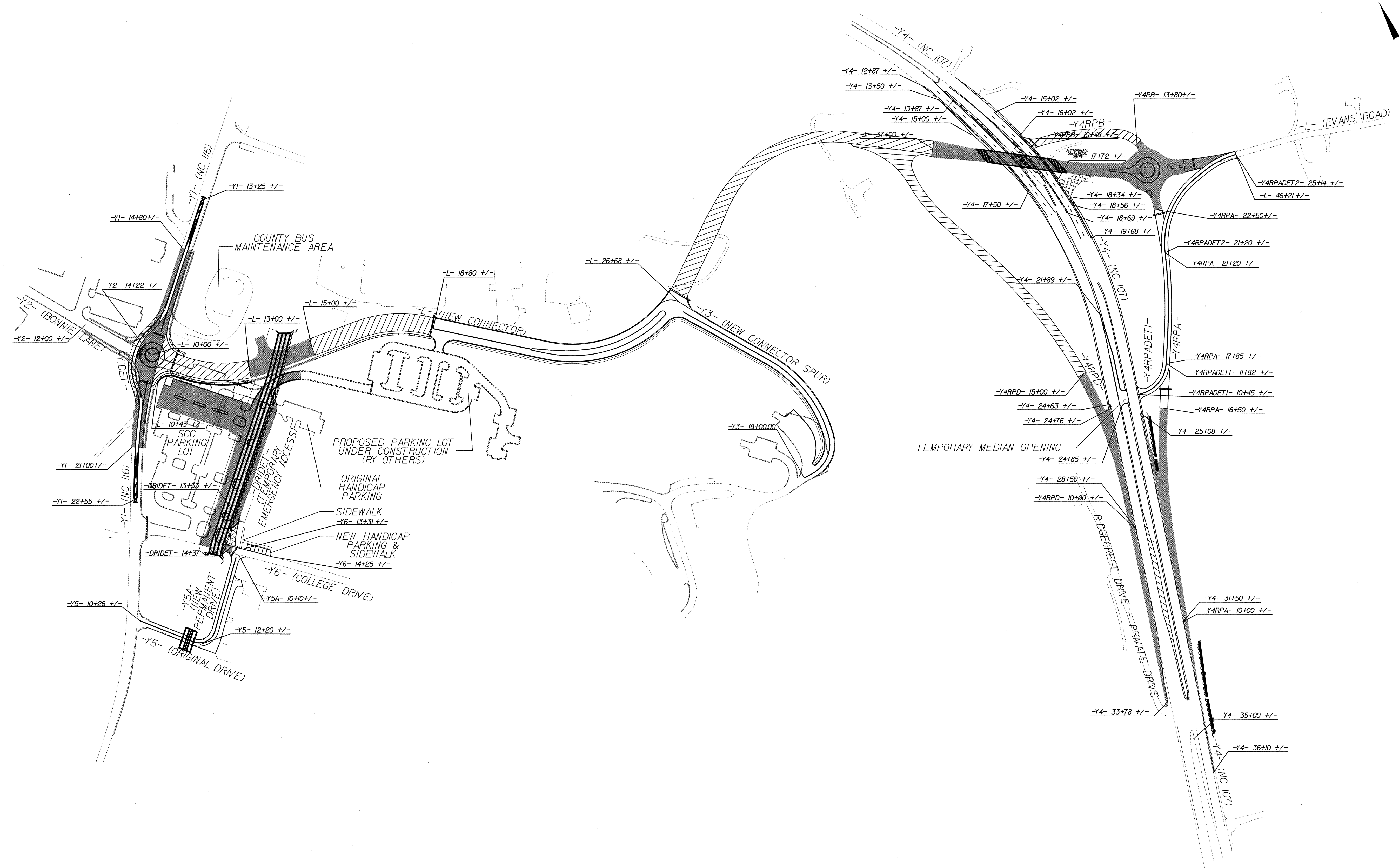
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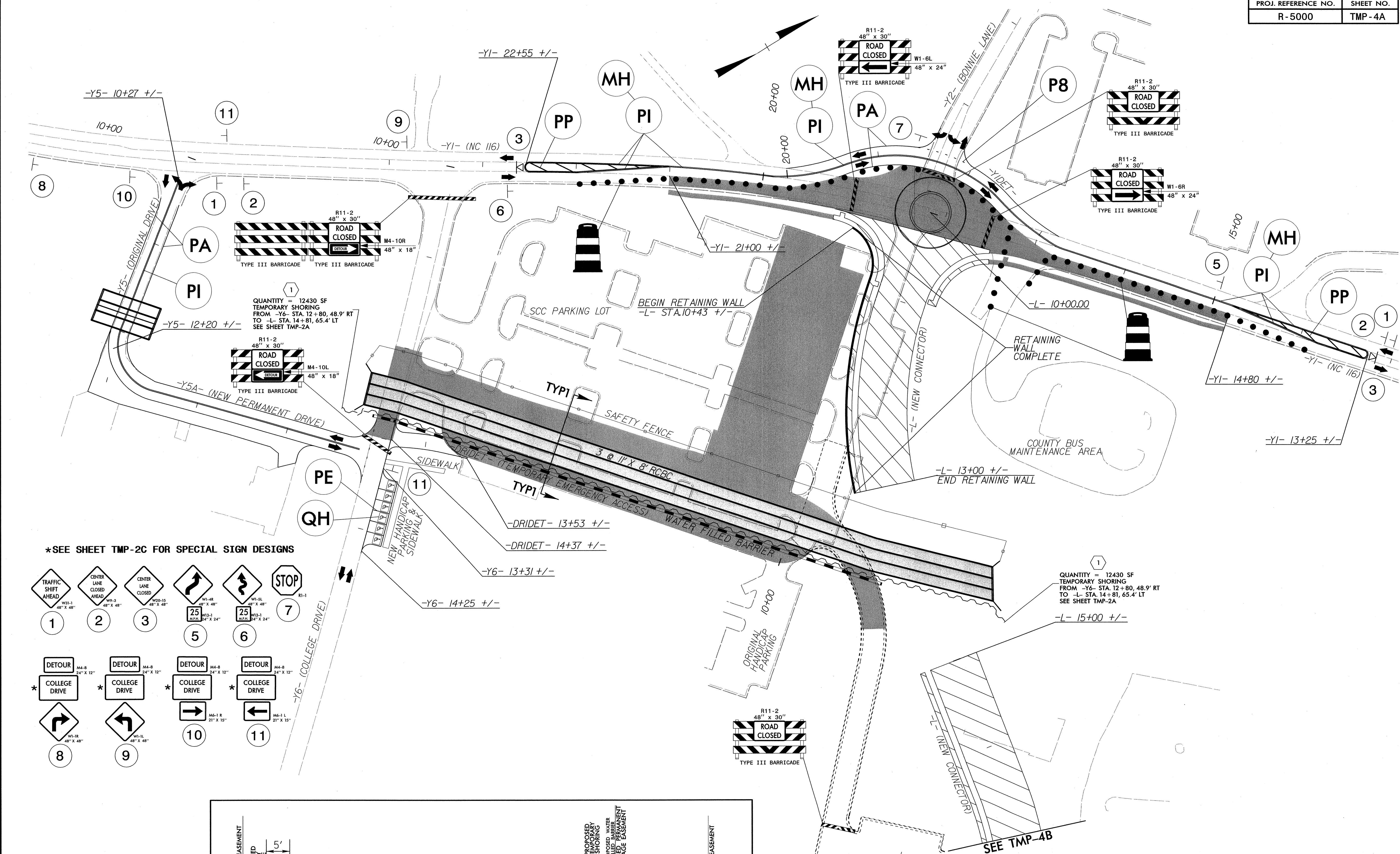
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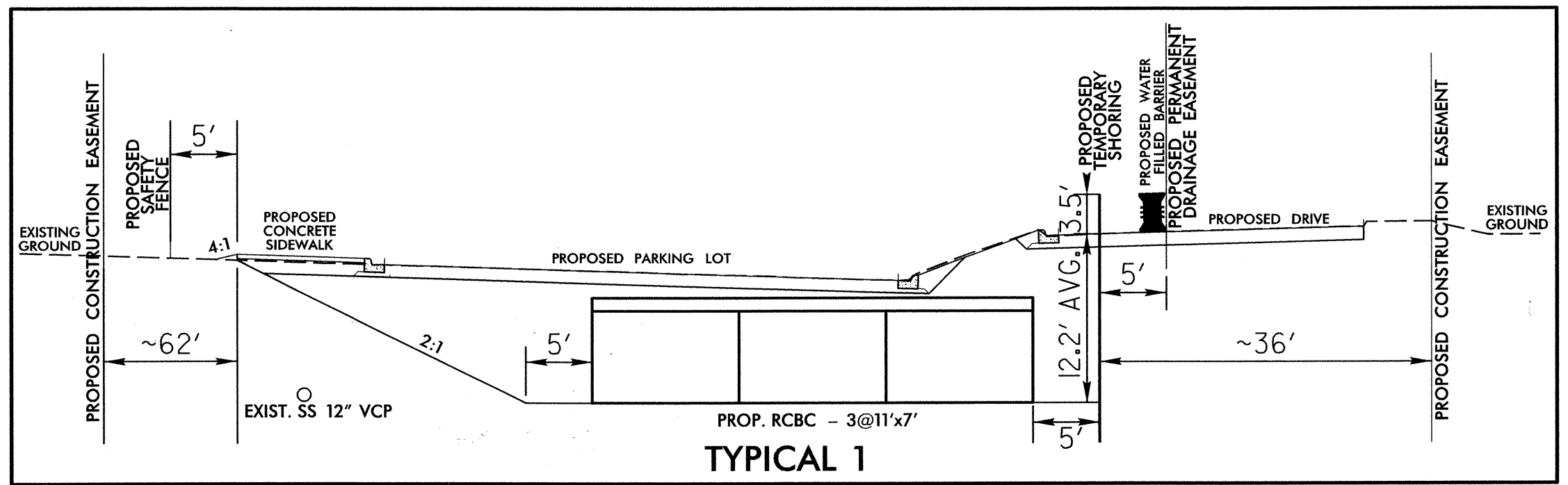
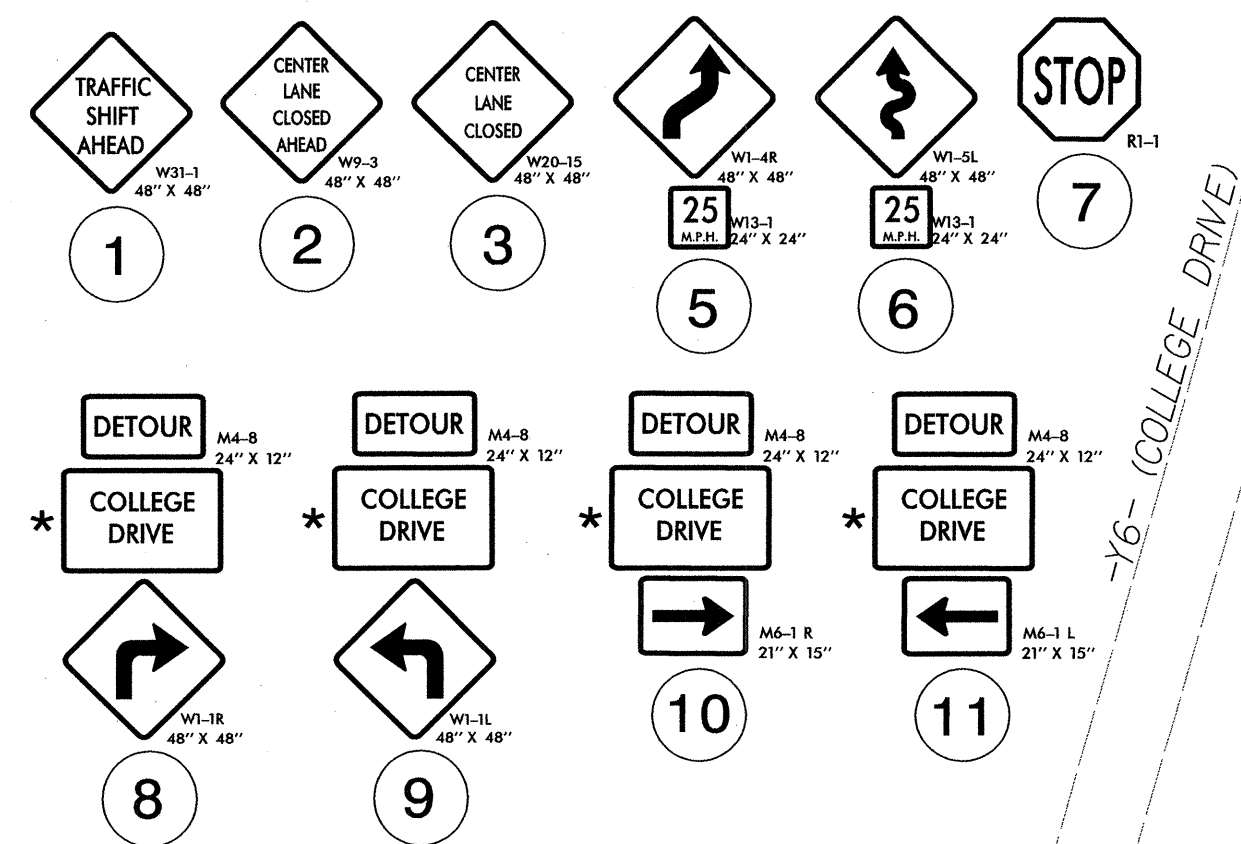


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 SEAL 6/28/12			



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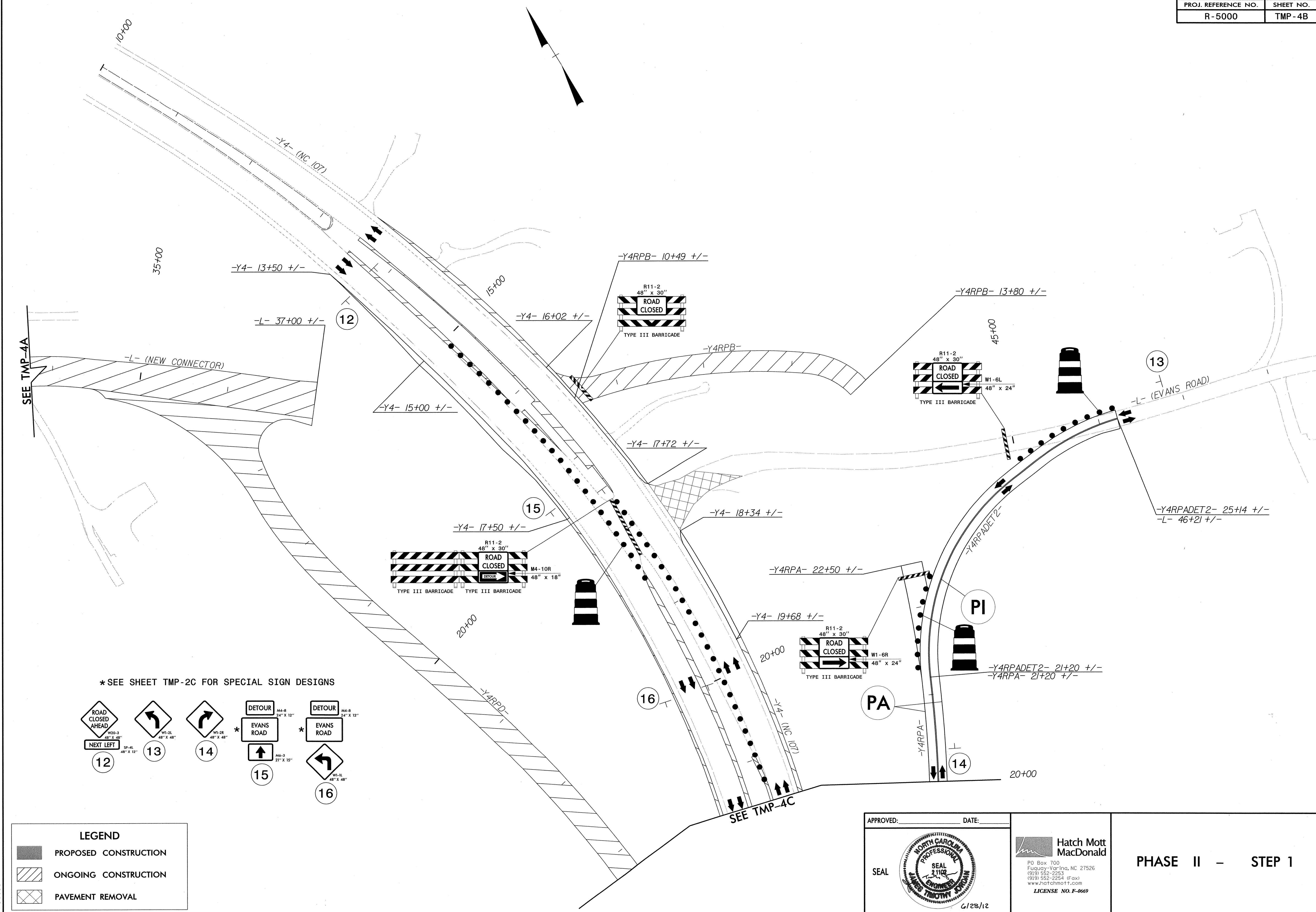
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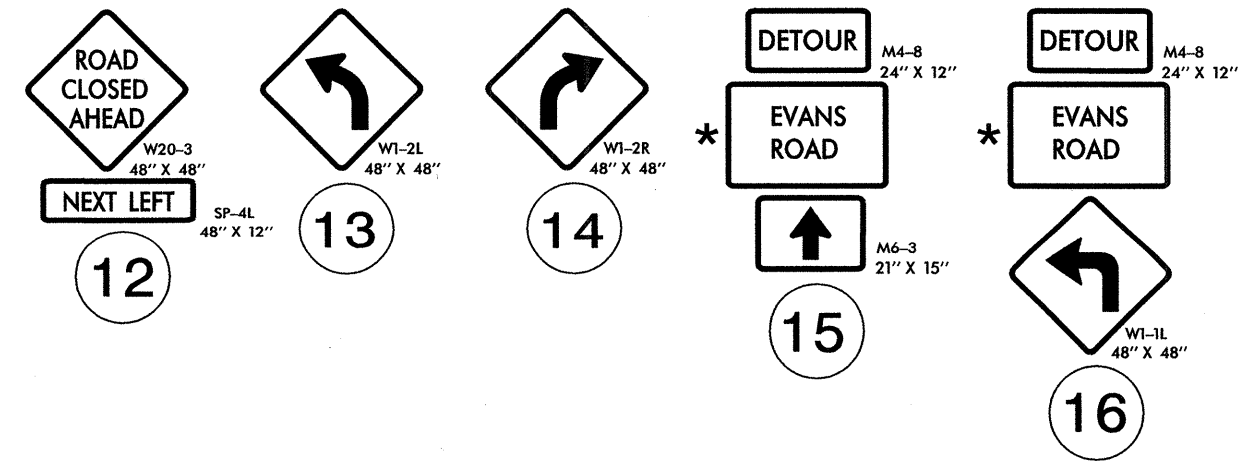
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PHASE I - STEPS 4, 5A & 5B
PHASE II - STEPS 1 & 2

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*SEE SHEET TMP-2C FOR SPECIAL SIGN DESIGNS



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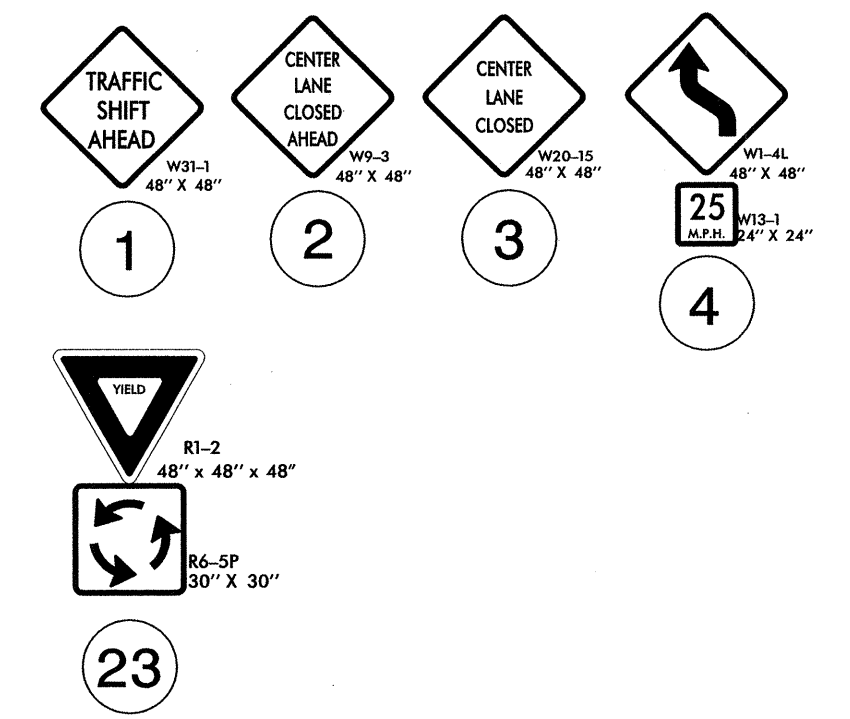
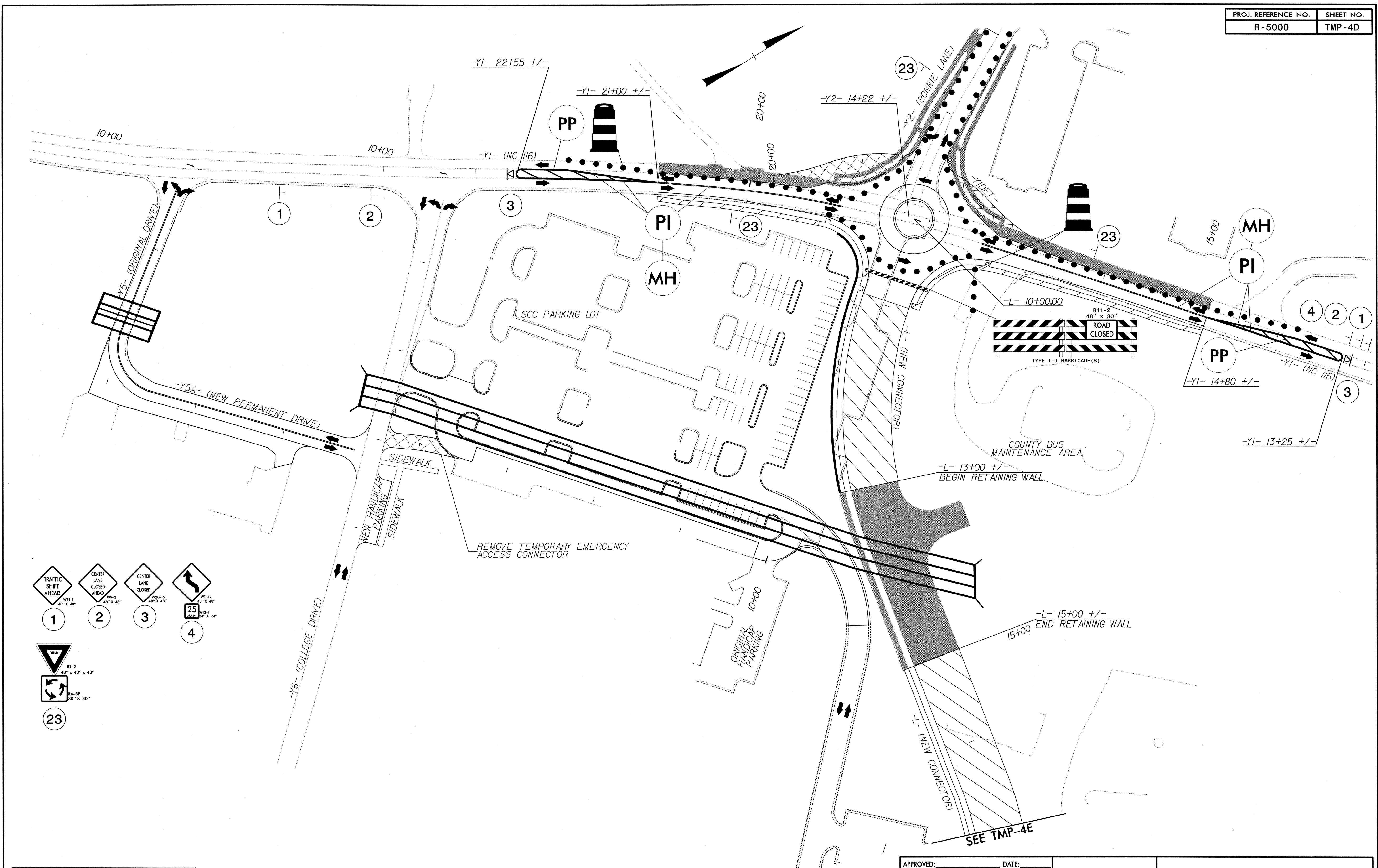
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PHASE II - STEP 1

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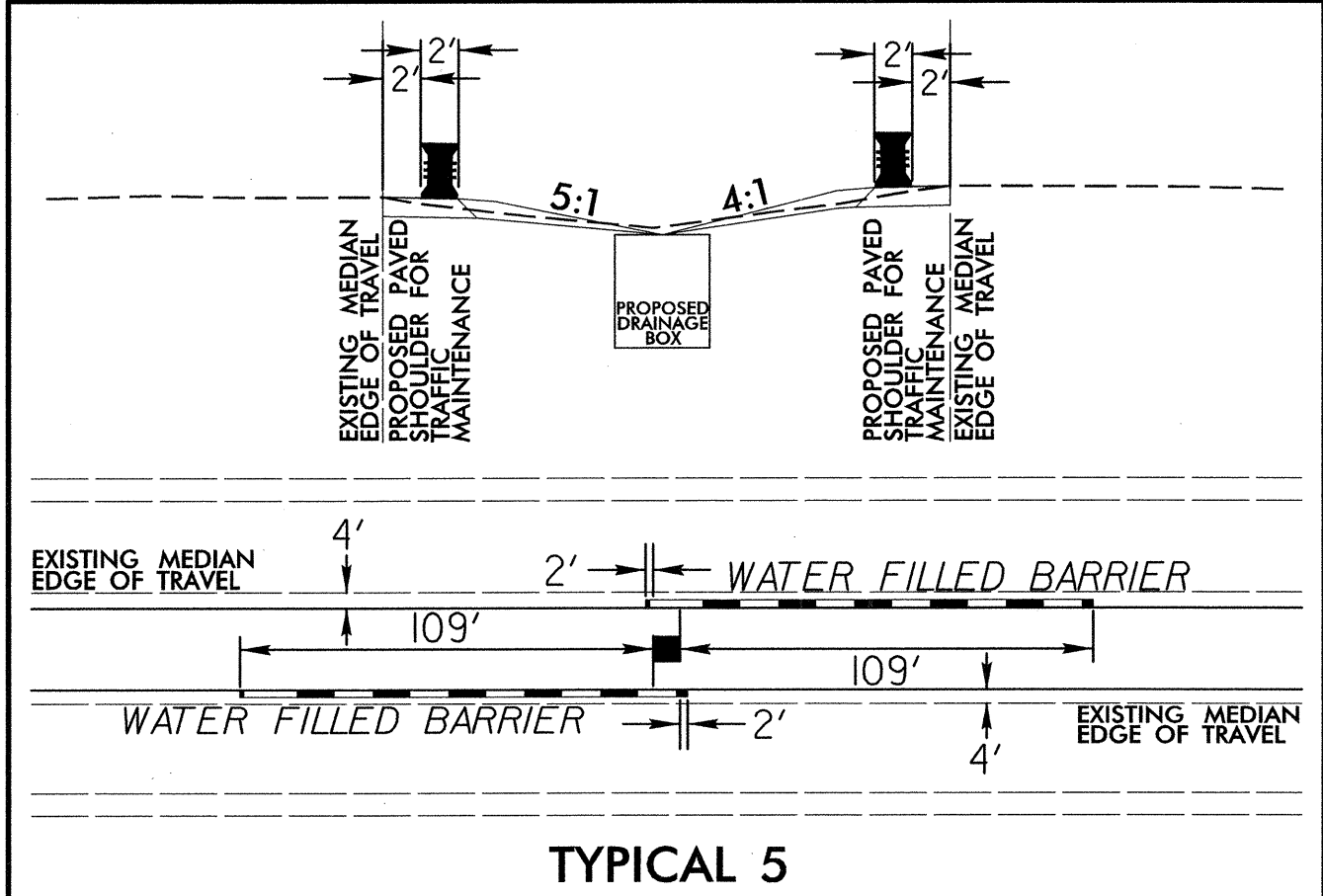
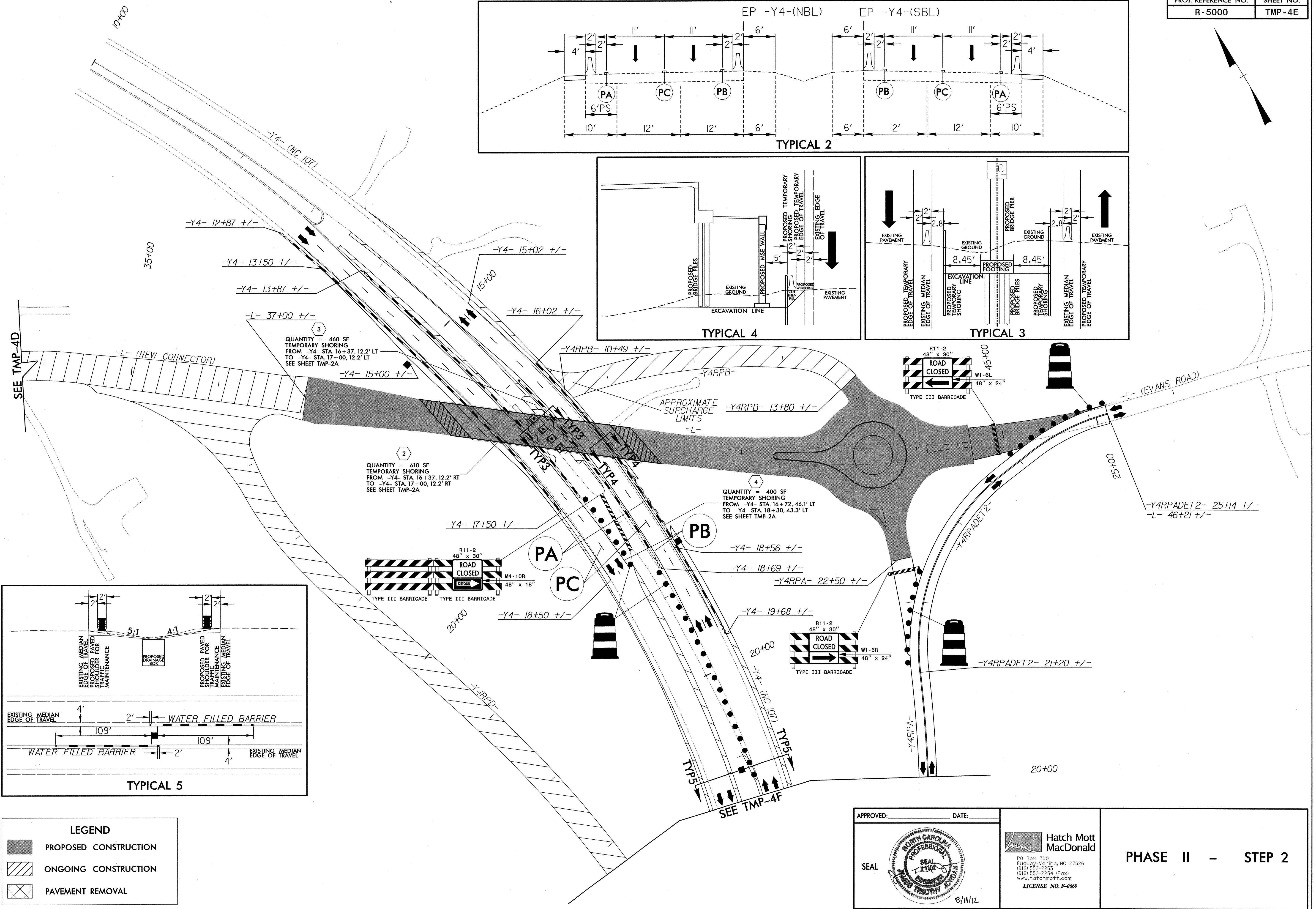
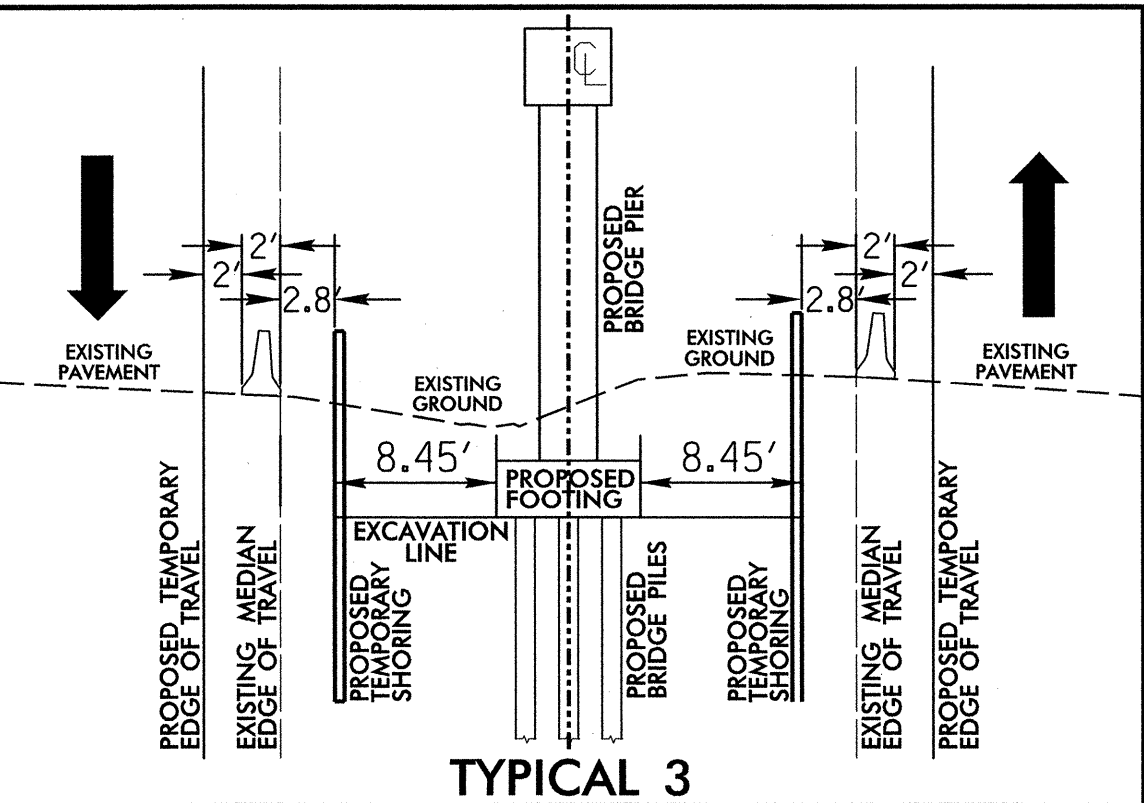
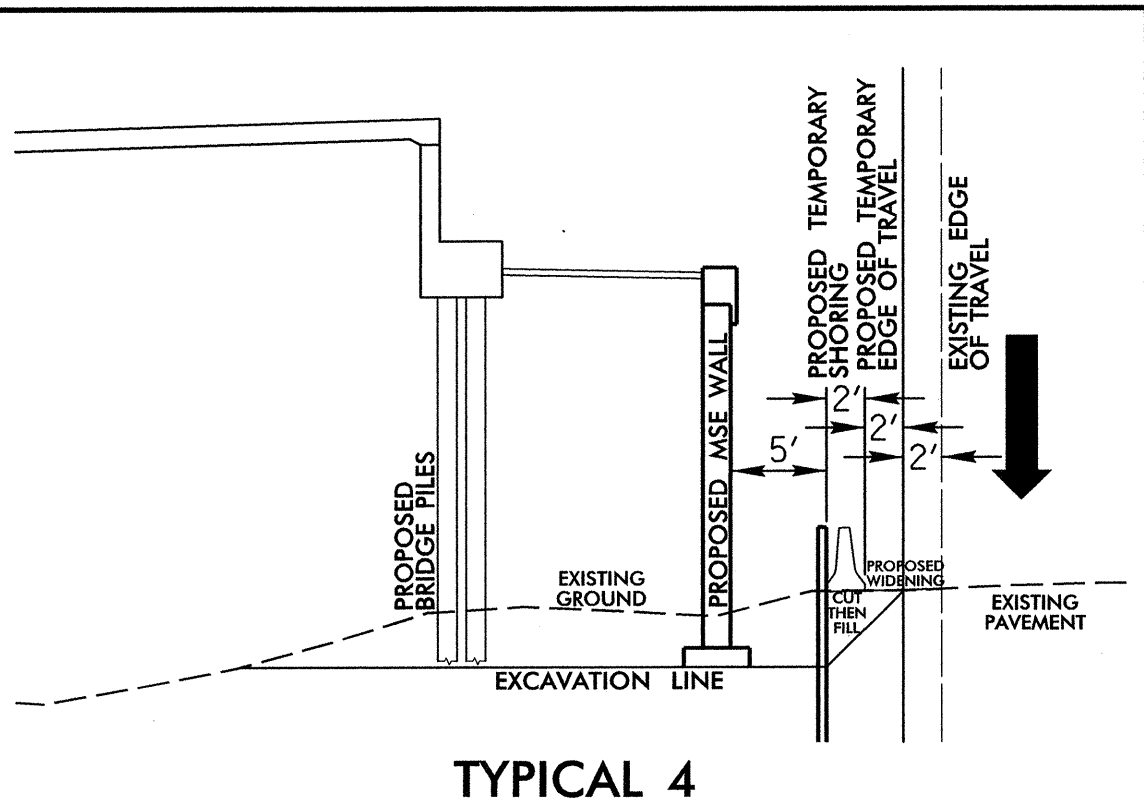
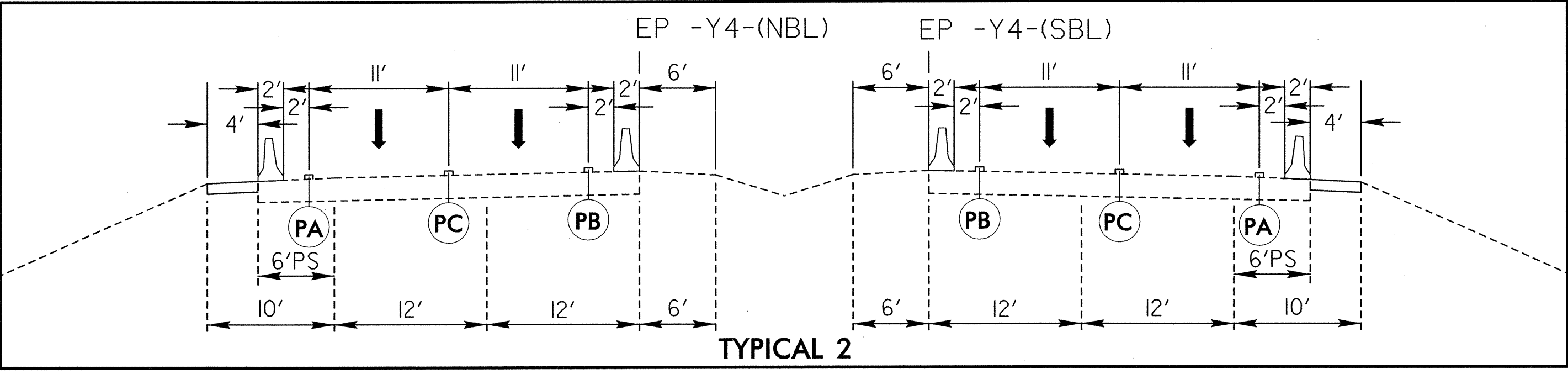
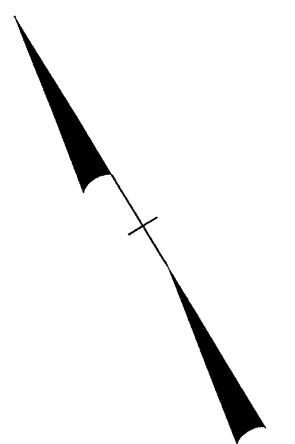
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PHASE I - STEP 5C
PHASE II - STEPS 2,3,4

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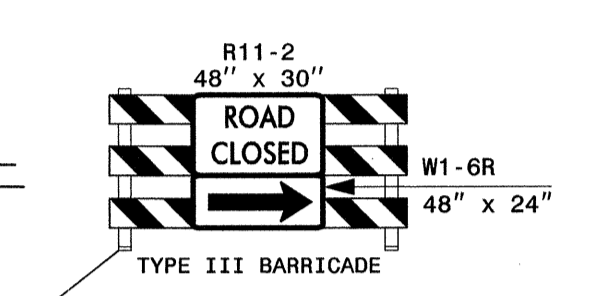
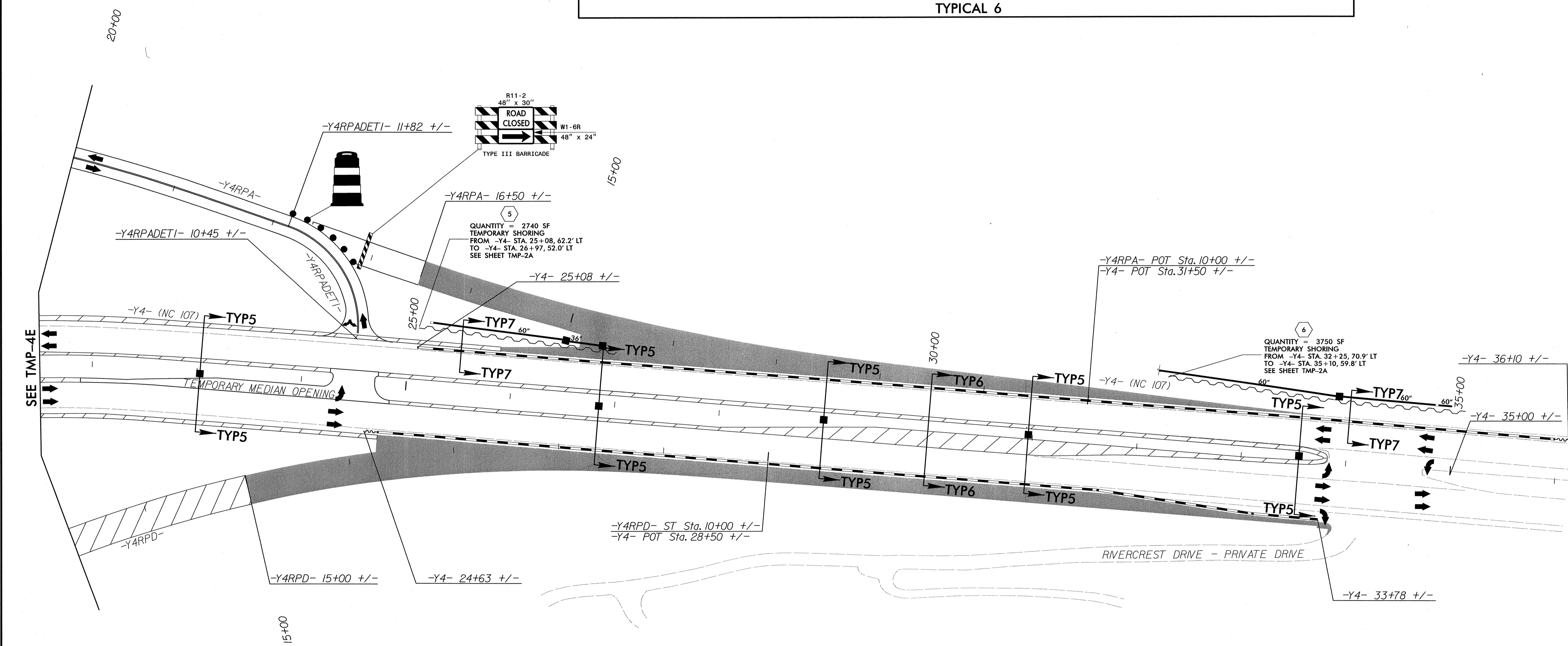
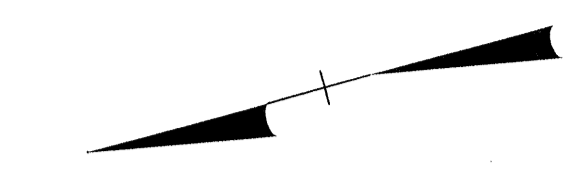
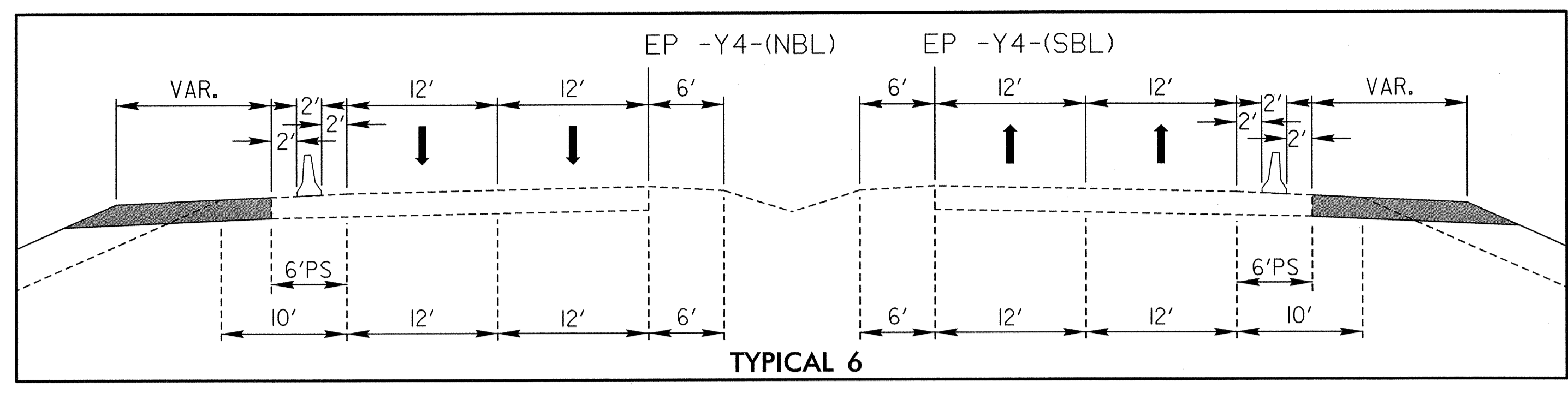
LEGEND	
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	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL

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PHASE II - STEP 2

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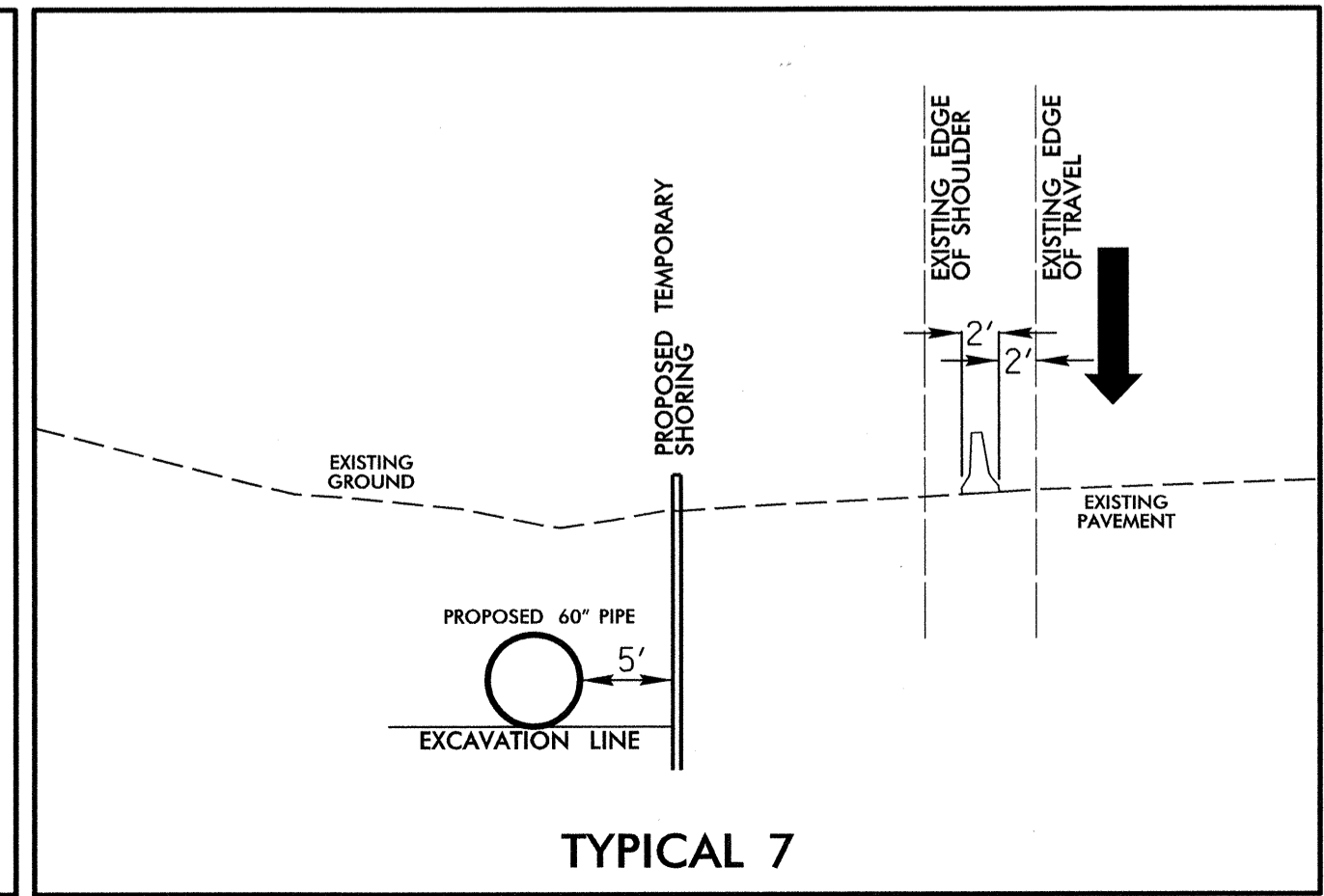
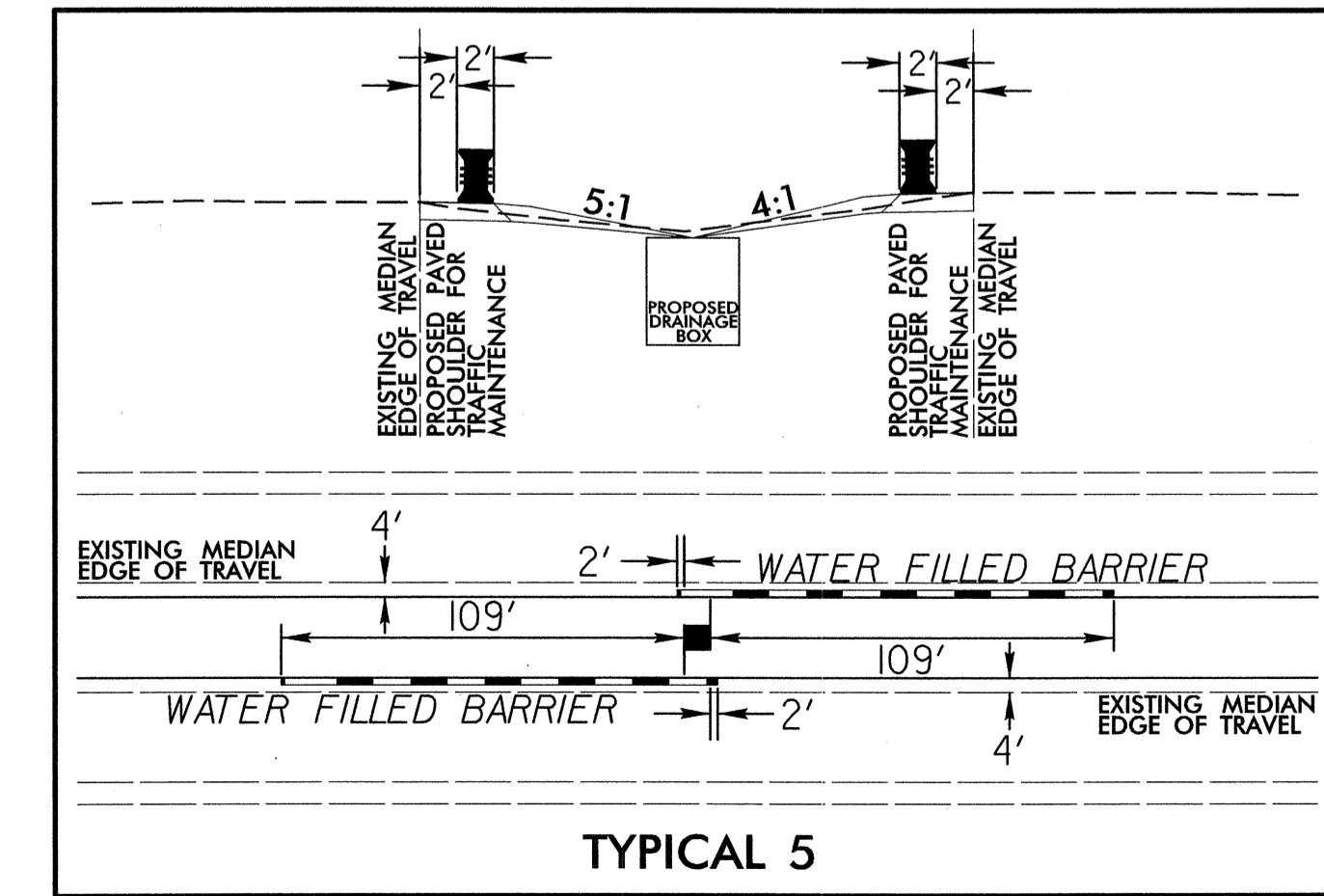


QUANTITY = 2740 SF
 TEMPORARY SHORING
 FROM -Y4- STA. 25+08, 62.2' LT
 TO -Y4- STA. 26+97, 52.0' LT
 SEE SHEET TMP-2A

QUANTITY = 3750 SF
 TEMPORARY SHORING
 FROM -Y4- STA. 32+25, 70.9' LT
 TO -Y4- STA. 35+10, 59.8' LT
 SEE SHEET TMP-2A

LEGEND

	PROPOSED CONSTRUCTION
	ONGOING CONSTRUCTION
	PAVEMENT REMOVAL



APPROVED: _____ DATE: _____

Hatch Mott MacDonald
 P.O. Box 700
 Fuquay-Varina, NC 27526
 (919) 552-2253
 (919) 552-2254 (fax)
 www.hatchmott.com
 LICENSE NO. F-0669

PHASE II - STEP 2

1:30:58 PM
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 5/15/16