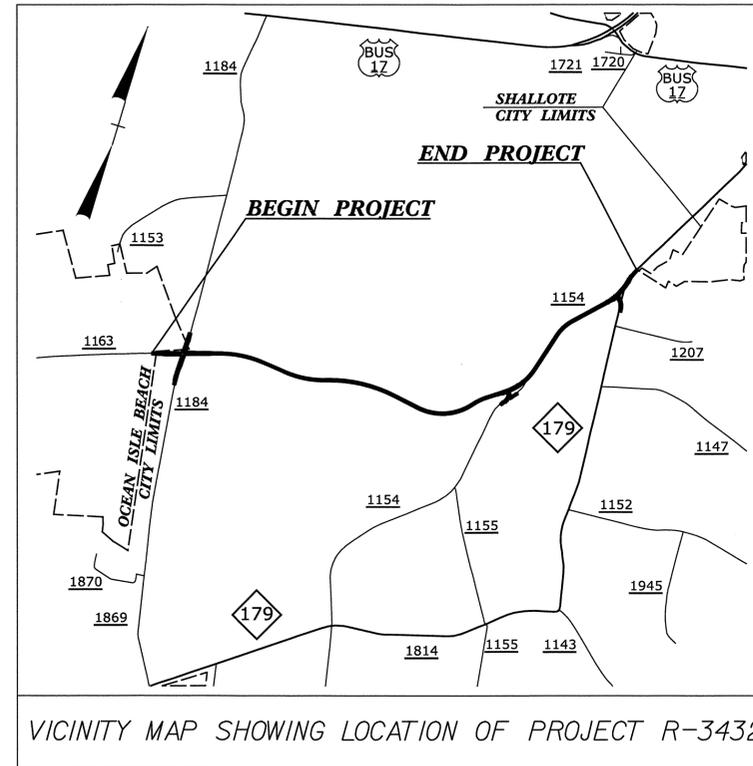


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

BRUNSWICK COUNTY



INDEX OF SHEETS

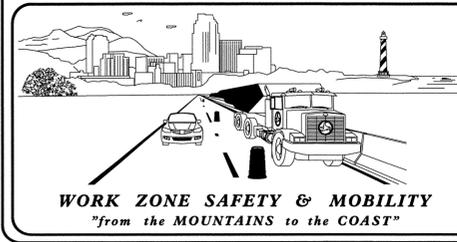
SHEET NO.	TITLE
TMP-1	INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND & TEMPORARY PAVEMENT MARKING SCHEDULE
TMP-1B	TRANSPORTATION OPERATIONS PLAN
TMP-2	SIGN DESIGNS
TMP-3 & 3A	PHASING
TMP-4 & 8	PHASE I DETAILS
TMP-9 THRU 12	PHASE I DETOURS
TMP-13 THRU 16	PHASE II DETAILS
TMP-17	PHASE II DETOUR
TMP-18 & 19	PHASE III DETAILS

SHEET NO.
TMP-1

TIP PROJECT: R-3432

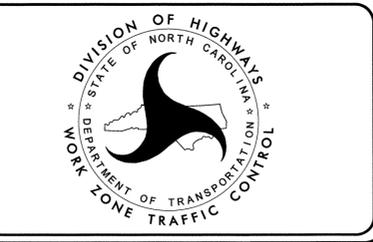
TIP PROJECT: R-3432

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

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
J. S. KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
D. A. PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER
D. RICHARDSON TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: *Michael T. Rzepka*
DATE: 9-3-13

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
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
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
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.
- WORK AREA
- CONTINUING CONSTRUCTION
- REMOVAL

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 MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

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

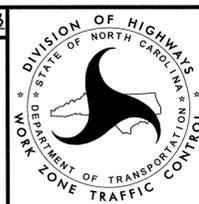
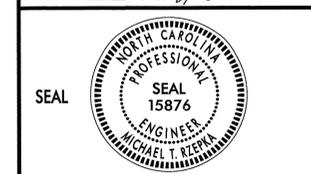
PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
PAINT (4")	
PA	WHITE EDGELINE
PB	YELLOW EDGELINE
PD	9 FT.-3 FT./SP WHITE SKIP
PE	WHITE SOLID LANE LINE
PI	DOUBLE YELLOW CENTERLINE
P8	2 FT.-6 FT./SP WHITE MINI SKIP
PAINT (8")	
PN	WHITE GORELINE
PO	WHITE DIAGONAL
PP	YELLOW DIAGONAL
PAINT (12")	
P10	3 FT.-3 FT./SP WHITE MINISKIP
PAINT (24")	
P2	WHITE STOP BAR
PAINT SYMBOL	
QA	LEFT TURN ARROW
QB	RIGHT TURN ARROW
QC	STRAIGHT ARROW
QD	COMBO LEFT/STRAIGHT ARROW
QI	ALPHANUMERIC CHARACTER
QN	24" YIELD LINE TRIANGLE
QP	MERGE ARROW
TEMPORARY RAISED MARKERS	
MH	YELLOW & YELLOW
MI	CRYSTAL & RED

APPROVED: *Michael R. Zepka* DATE: 9-3-13



ROADWAY STANDARD DRAWINGS,
LEGEND &
TEMPORARY PAVEMENT
MARKING SCHEDULE

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 UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 179 OLD GEORGETOWN RD. OCEAN ISLE RD.	MONDAY-FRIDAY, 7:00AM-9:00AM 4:00PM-6:00PM

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

ROAD NAME

NC 179
OLD GEORGETOWN RD.
OCEAN ISLE RD.

HOLIDAY

1. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00AM FRIDAY TO 6:00PM TUESDAY.
2. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00AM THE DAY BEFORE INDEPENDENCE DAY AND 6:00PM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00PM THE TUESDAY AFTER INDEPENDENCE DAY.

3. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00AM FRIDAY AND 6:00PM TUESDAY.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) 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.
- D) 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.
- E) 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.
- F) 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.
- G) 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.
- H) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON ALL ROADS.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 200 FEET IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- N) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

- S) 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.
- T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- V) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION

LOCAL NOTES

- 1) WEDGE UP TO, BUT NOT INCLUDING, THE FINAL IWQ LAYERS OF SURFACE COURSE AT THE FOLLOWING LOCATIONS:

(OLD GEORGETOWN ROAD) -L- STA 13+07± TO EXISTING OCEAN ISLE ROAD (HALE SWAMP ROAD/BRICK LANDING ROAD) -L- STA 149+00± TO STA 161+00± (OCEAN ISLE ROAD) -Y10- STA 15+00± TO STA 33+88±

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Florence & Hutchinson

APPROVED: <i>Michael J. Rydzka</i> DATE: 9-3-13 	TRANSPORTATION OPERATIONS PLAN 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE: NONE</td> <td rowspan="5" style="text-align: center;">REVISIONS</td> </tr> <tr> <td>DATE: SEPT '13</td> </tr> <tr> <td>DWG. BY: ACP</td> </tr> <tr> <td>DESIGN BY: TAG</td> </tr> <tr> <td>REVIEWED BY: MTR</td> </tr> </table>	SCALE: NONE	REVISIONS	DATE: SEPT '13	DWG. BY: ACP	DESIGN BY: TAG	REVIEWED BY: MTR
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PHASING



PROJ. REFERENCE NO.	SHEET NO.
R-3432	TMP-3

PHASE I

- NOTES: - IN PHASING BELOW "RSD" REFERS TO NCDOT ROADWAY STANDARD DRAWING.
 - MAINTAIN EXISTING TRAFFIC PATTERNS IN PHASE I.
 - IN PHASE I AND PHASE II, CONSTRUCT PROPOSED UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, UNLESS OTHERWISE NOTED.

STEP 1

INSTALL ADVANCE WARNING SIGNS ON OLD GEORGETOWN ROAD, HALE SWAMP ROAD, OCEAN ISLE BEACH ROAD AND NC 179 (BRICK LANDING ROAD) (SEE ROADWAY STANDARD DRAWING NUMBER 1101.01).

STEP 2

USING RSD 1101.02 (SHEET 1 OF 15), BEGIN UTILITY AND DRAINAGE CONSTRUCTION EXCEPT FOR PIPES TO BE INSTALLED IN STEPS 3A, 3B, 3C & 3D.

USING RSD 1101.02 (SHEET 1 OF 15), BEGIN PROPOSED WEDGING & WIDENING OF EXISTING ROADWAY AT THE FOLLOWING LOCATIONS (SEE LOCAL NOTE 1)(SEE SHEETS TMP-4 & 6 THRU 8):

- OLD GEORGETOWN ROAD -L- STA 13+07 TO OCEAN ISLE BEACH ROAD (LEFT & RIGHT)
- OCEAN ISLE BEACH ROAD -Y10- STA 15+00 TO STA 33+88 (LEFT & RIGHT)
- HALE SWAMP ROAD -L- STA 121+50± TO BRICK LANDING ROAD -L- STA 164+00± (LEFT & RIGHT)
- NC 179 (BRICK LANDING ROAD) FROM HALE SWAMP ROAD TO -Y6- STA 15+50± (RIGHT)

USING RSD 1101.02 (SHEET 1 OF 15), BEGIN PROPOSED WIDENING UP TO EDGE AND ELEVATION OF EXISTING ROADWAY ON HALE SWAMP ROAD -Y9- STA 14+50± TO -Y9A- STA 12+70± (RIGHT) (SEE SHEET TMP-5):

- AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE FOLLOWING PROPOSED (SEE SHEETS TMP-4, 5 & 8):
- L- FROM OCEAN ISLE BEACH ROAD TO -L- STA 121+50±
 - Y9- FROM HALE SWAMP ROAD TO -L-
 - Y6- FROM NC 179 (BRICK LANDING ROAD) TO -L-

NOTE: PHASE I, STEPS 3A, 3B, 3C & 3D MAY BE DONE IN ANY ORDER BUT MAY NOT BE DONE AT THE SAME TIME. PHASE I, STEPS 3A, 3B, 3C & 3D MAY BE DONE SIMULTANEOUSLY WITH PHASE I, STEP 2 WORK.

COMPLETE THE WORK REQUIRED IN PHASE I, STEP 3A, IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 3A

- USING RSD 1101.03 (SHEET 1 OF 9), CLOSE OCEAN ISLE BEACH ROAD AT -Y10- STA 29+50± AND DETOUR TRAFFIC (SEE SHEET TMP-9 FOR DETOUR ROUTE).
- REMOVE EXISTING CULVERT AT -Y10- STA 29+60±
- INSTALL 96" PIPE AT -Y10- STA 29+45± (SEE SHEET TMP-4).
- REOPEN OCEAN ISLE BEACH ROAD TO TRAFFIC AND REMOVE DETOUR SIGNS.

COMPLETE THE WORK REQUIRED IN PHASE I, STEP 3B, IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 3B

- USING RSD 1101.03 (SHEET 1 OF 9), CLOSE HALE SWAMP ROAD AT -Y9- STA 12+50± AND DETOUR TRAFFIC (SEE SHEET TMP-10 FOR DETOUR ROUTE).
- INSTALL 30" PIPE AT -Y9- STA 12+50± (SEE SHEET TMP-5).
- REOPEN HALE SWAMP ROAD TO TRAFFIC AND COVER/REMOVE DETOUR SIGNS.

COMPLETE THE WORK REQUIRED IN PHASE I, STEP 3C, IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 3C

- USING RSD 1101.03 (SHEET 1 OF 9), CLOSE HALE SWAMP ROAD AT -L- STA 138+00± AND DETOUR TRAFFIC (SEE SHEET TMP-11 FOR DETOUR ROUTE).
- INSTALL 72" PIPE AT -L- STA 138+00± (SEE SHEET TMP-7).
- REOPEN HALE SWAMP ROAD TO TRAFFIC AND REMOVE DETOUR SIGNS.

COMPLETE THE WORK REQUIRED IN PHASE I, STEP 3D, IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 3D

- USING RSD 1101.03 (SHEET 1 OF 9), CLOSE NC 179 AT -L- STA 159+25± AND DETOUR TRAFFIC (SEE SHEET TMP-12 FOR DETOUR ROUTE).
- INSTALL 54" PIPE AT -L- STA 159+25± (SEE SHEET TMP-8).
- REOPEN NC 179 TO TRAFFIC AND REMOVE DETOUR SIGNS.

STEP 4

COMPLETE CONSTRUCTION BEGUN IN STEP 2:

- L- STA 13+07 TO OCEAN ISLE BEACH ROAD
- Y10- STA 15+00 TO STA 33+88
- L- FROM OCEAN ISLE BEACH ROAD TO -L- STA 24+00±
- L- STA 121+50± TO STA 164+00±
- Y6- FROM NC 179 (BRICK LANDING ROAD) TO -L- NC 179 (BRICK LANDING RD.) FROM HALE SWAMP RD. TO -Y6- STA 15+50± (WIDENING RIGHT)

PHASE II

STEP 1

USING RSD 1101.02 (SHEET 1 OF 15), COMPLETE THE FOLLOWING (SEE SHEETS TMP-15 & 16):

- REMOVE CONFLICTING MARKINGS AND PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN FROM -L- STA 121+50± TO STA 149+00± AND FROM -L- STA 161+00± TO STA 164+00± AND -Y6-
- PLACE A LAYER OF SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN FROM -L- STA 149+00± TO STA 161+00± AND -Y6-
- SHIFT TRAFFIC TO TEMPORARY PATTERN SHOWN AT -L-/-Y6- ROUNDABOUT

NOTE: PHASE II, STEP 2 MAY BE DONE SIMULTANEOUSLY WITH PHASE II, STEP 3 WORK.

COMPLETE THE WORK REQUIRED IN PHASE II, STEP 2, IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 2

- USING RSD 1101.02 (SHEET 1 OF 9), CLOSE OLD GEORGETOWN ROAD (-L-) AND OCEAN ISLE ROAD (-Y10-) AT THE INTERSECTION OF -L-/-Y10- AND DETOUR TRAFFIC (SEE SHEET TMP-17 DETOUR ROUTE)
- AWAY FROM TRAFFIC CONSTRUCT ROUNDABOUT CENTER, REMAINING ROUNDABOUT APRON AND REMAINING MONOLITHIC ISLANDS. PLACE A LAYER OF SURFACE COURSE. (SEE SHEET TMP-13)
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- STA 13+07 TO OCEAN ISLE ROAD AND -Y10- STA 15+00 TO STA 33+88 AND OPEN TRAFFIC TO TEMPORARY PATTERN SHOWN ON SHEET TMP-14.

STEP 3

USING RSD 1101.02 (SHEET 1 OF 15), CONSTRUCT PROPOSED AT THE FOLLOWING LOCATIONS (SEE SHEET TMP-16):

- ROUNDABOUT CENTER ON -Y6-
- REMAINING MONOLITHIC ISLANDS AT -L-/-Y6- ROUNDABOUT (EXCEPT REMAINING ISLAND ON -Y6- STA 12+00± TO STA 13+90±)
- WIDENING FROM -Y6- STA 12+00± TO STA 15+50± (LEFT)

COMPLETE CONSTRUCTION OF PROPOSED BEGUN IN PHASE I, STEP 2:

- L- STA 24+00± TO STA 121+50±
- Y9- FROM HALE SWAMP ROAD TO -L-
- Y9- STA 14+50± TO -Y9A- STA 12+70± (WIDENING RIGHT)

COMPLETE UTILITY AND DRAINAGE CONSTRUCTION BEGUN IN PHASE I, STEP 2.

APPROVED: <i>Michael T. Rzesutka</i> DATE: 10-23-13		PHASING	
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	DATE: SEPT '13		
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PHASE III

STEP 1

AWAY FROM TRAFFIC, PLACE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS FROM -L- STA 24+00± TO STA 114+00± (SEE FINAL PAVEMENT MARKING PLANS FOR MARKING LOCATIONS).

USING RSD 1101.02 (SHEET 1 OF 15), PLACE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS ON -L- STA 13+07± TO STA 24+00± AND ON -Y10- STA 15+00± TO STA 33+88±. KEEP CLOSED THE ACCESS TO NEW LOCATION (EAST LEG) -L- STA 24+00± TO STA 121+50± (SEE FINAL PAVEMENT MARKING PLANS FOR MARKING LOCATIONS).

COMPLETE THE WORK REQUIRED IN PHASE III, STEP 2, IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 2

- USING RSD 1101.03 (SHEET 1 OF 15), CLOSE HALE SWAMP ROAD AT -Y9- TIE AND DETOUR TRAFFIC (SEE SHEET TMP-10 FOR DETOUR ROUTE).
- CONSTRUCT TIE FROM -Y9- AND -Y9A- TO EXISTING HALE SWAMP ROAD.
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y9- & -Y9A- AND TIE TO EXISTING HALE SWAMP ROAD AND -L-. PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- STA 114+00± TO 121+50± AND TIE TO EXISTING HALE SWAMP ROAD.
- OPEN EAST LEG OF -L-/-Y10- ROUNDABOUT, -L- STA 24+00± TO STA 121+50±, -Y9- & -Y9A- AND SHIFT TRAFFIC TO FINAL PATTERN (SEE SHEET TMP-18).
- REMOVE DETOUR SIGNS.

STEP 3

USING RSD 1101.03 (SHEET 1 OF 15), WEDGE AND CONSTRUCT PROPOSED WIDENING FROM -Y9- STA 14+50± TO -Y9A- STA 12+70± (LEFT) (SEE SHEET TMP-18).

USING RSD 1101.03 (SHEET 1 OF 15), PERFORM THE FOLLOWING (SEE SHEET TMP-19):

- REMOVE CONFLICTING MARKINGS AND PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AND SHIFT NORTHBOUND -Y6- TRAFFIC TO PROPOSED INSIDE LANE.
- CONSTRUCT REMAINING PROPOSED MONOLITHIC ISLAND FROM -Y6- STA 12+00± TO STA 13+90±

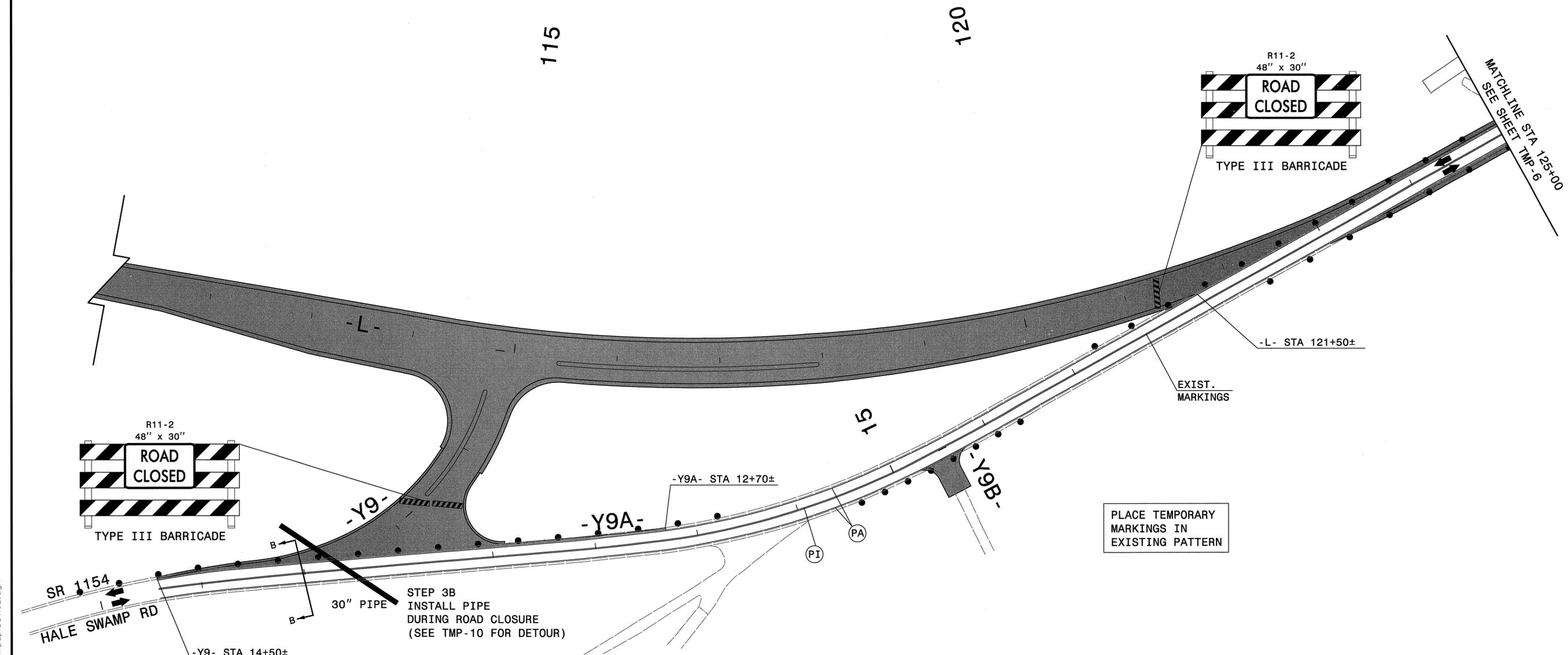
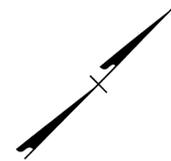
STEP 4

USING RSD 1101.02 (SHEET 1 OF 15), COMPLETE THE FOLLOWING ON -L- STA 114+00± TO STA 164+00±, -Y9-, -Y9A- AND -Y6-:

- PLACE FINAL LAYER OF SURFACE COURSE
- PLACE FINAL PAVEMENT MARKINGS AND MARKERS
- SHIFT TRAFFIC TO FINAL PATTERN ON -L-, -Y9-, -Y9A- AND -Y6-

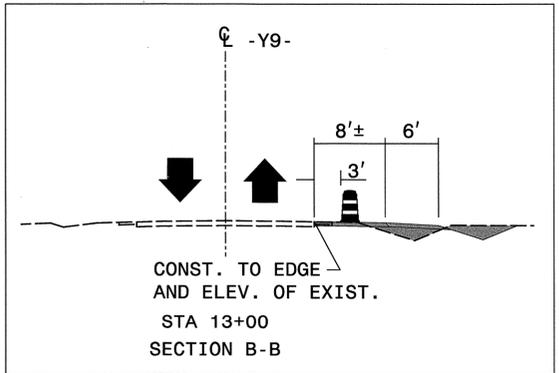
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APPROVED: <i>Michael R. Rydzko</i> DATE: 10-23-13		PHASING	
SEAL 	SCALE: NONE		REVISIONS
	DATE: SEPT '13		
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	DESIGN BY: TAG		
REVIEWED BY: MTR			CADD FILE



PLACE TEMPORARY MARKINGS IN EXISTING PATTERN

STEP 3B
INSTALL PIPE
DURING ROAD CLOSURE
(SEE TMP-10 FOR DETOUR)

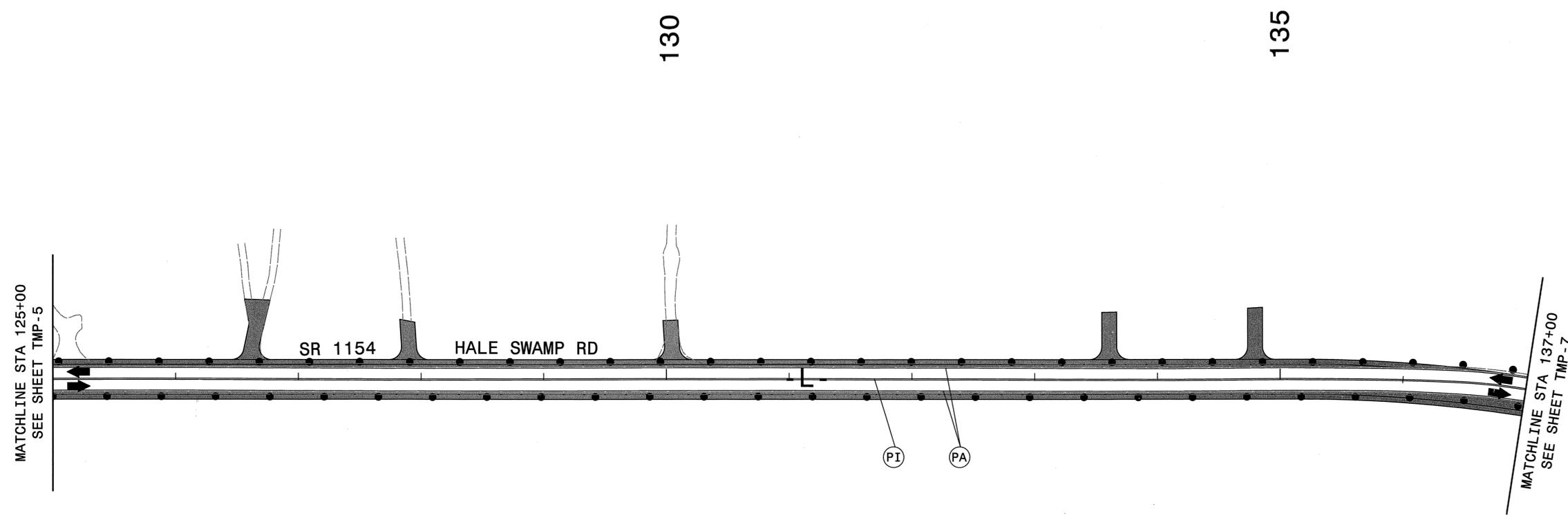


APPROVED: *Michael T. Serna* DATE: 9-3-13



PHASE I DETAIL							
-L- / -Y9- INTERSECTION							
SCALE: NONE							
DATE: SEPT '13							
DWG. BY: ACP							
DESIGN BY: TAG							
REVIEWED BY: MTR	<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS					
REVISIONS							

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Florence & Hutcheson



PLACE TEMPORARY MARKINGS IN EXISTING PATTERN

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 Florence & Hutchinson

APPROVED: *Michael T. Zepka* DATE: 9-3-13



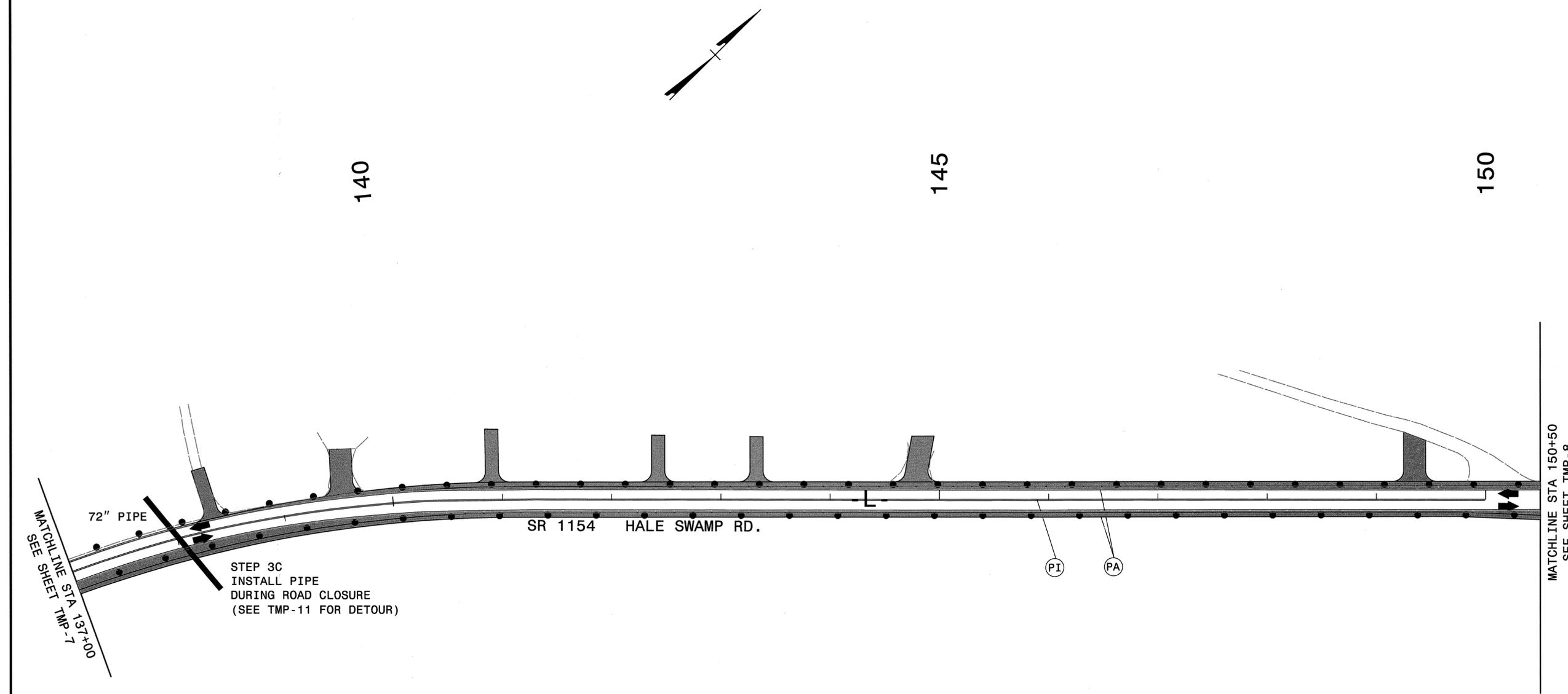
PHASE I DETAIL

SCALE: NONE
 DATE: SEPT '13
 DWG. BY: ACP
 DESIGN BY: TAG
 REVIEWED BY: MTR



REVISIONS	

CARD FILE



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Florence & Hutchinson

PLACE TEMPORARY
MARKINGS IN
EXISTING PATTERN

APPROVED: *Michael Ryzak* DATE: 9-3-13

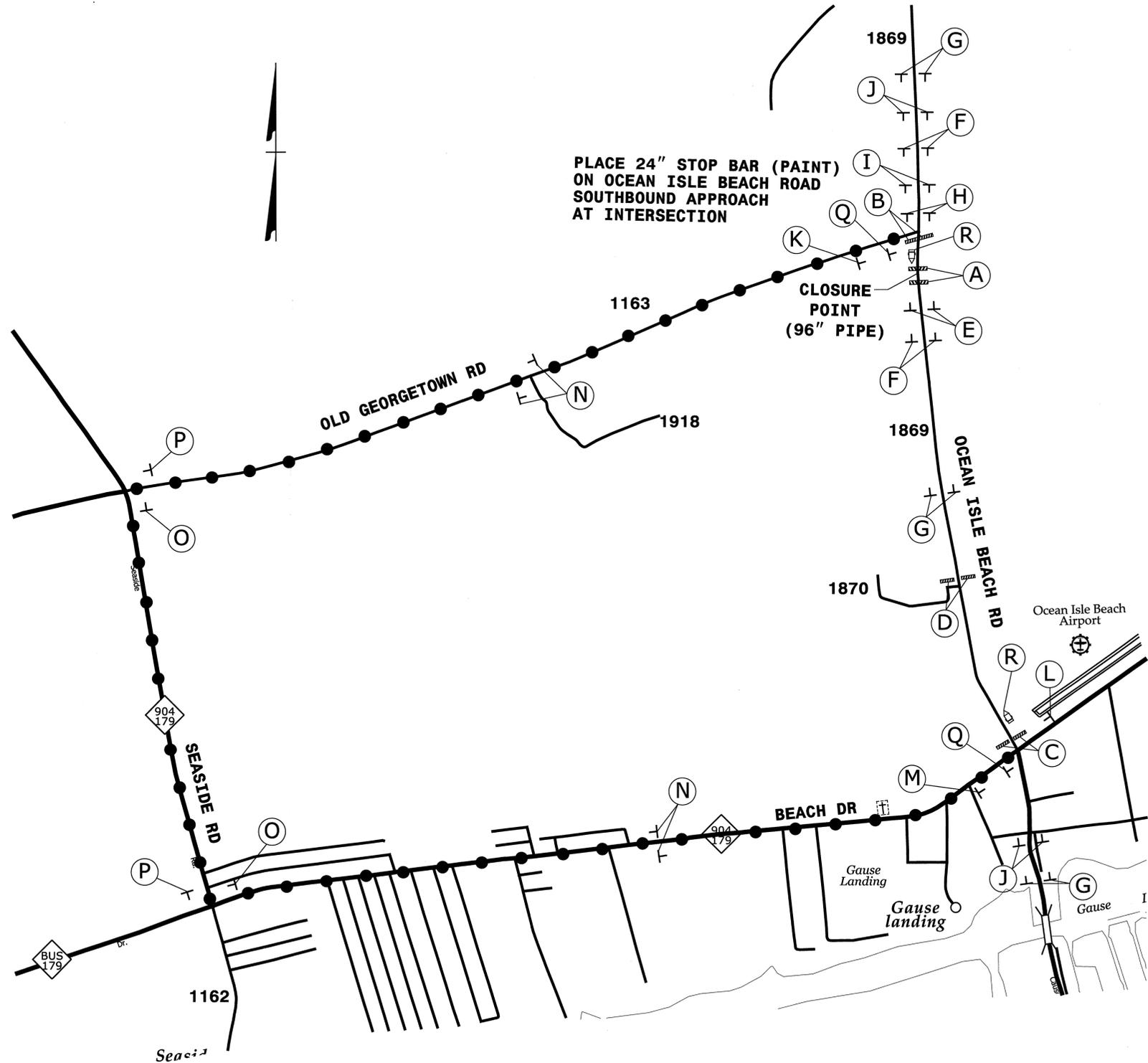


PHASE I DETAIL

SCALE: NONE
DATE: SEPT '13
DWG. BY: ACP
DESIGN BY: TAG
REVIEWED BY: MTR



REVISIONS	



PLACE 24" STOP BAR (PAINT)
ON OCEAN ISLE BEACH ROAD
SOUTHBOUND APPROACH
AT INTERSECTION

CLOSURE POINT
(96" PIPE)

TYPE III BARRICADE(S)

A R11-2 48" x 30" ROAD CLOSED

B R11-2 48" x 30" ROAD CLOSED

C R11-3 60" x 30" ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY

D R11-4 60" x 30" ROAD CLOSED TO THRU TRAFFIC

E W20-3 48" X 48" ROAD CLOSED 500 FT

F W20-3 48" X 48" ROAD CLOSED 1000 FT

G W20-3 48" X 48" ROAD CLOSED AHEAD

H R1-1 36" X 36" STOP

I W3-1A 48" X 48" (Arrow pointing up)

J W20-2 48" X 48" DETOUR AHEAD

K W20-3 48" X 48" ROAD CLOSED

L W20-3 48" X 48" ROAD CLOSED AHEAD

M W20-3 48" X 48" ROAD CLOSED AHEAD

N Ocean Isle Beach Road 42" X 30" DETOUR (Arrow pointing up)

O M4-8 24" X 12" M6-1 21" X 15" NEXT RIGHT

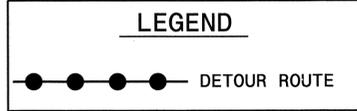
P M4-8 24" X 12" M6-1 21" X 15" NEXT LEFT

Q M4-8A 24" X 18" END DETOUR

R MESSAGE AS SHOWN OR AS DIRECTED BY THE ENGINEER

ACTIVATE CMS 14 DAYS PRIOR TO CLOSING ROAD	
MESSAGE NO. 1	MESSAGE NO. 2
OCEAN I. BEACH RD TO CLOSE	(DATE) TO (DATE)
CHANGEABLE MESSAGE SIGN	

SEE TMP-2 FOR SIGN DESIGN



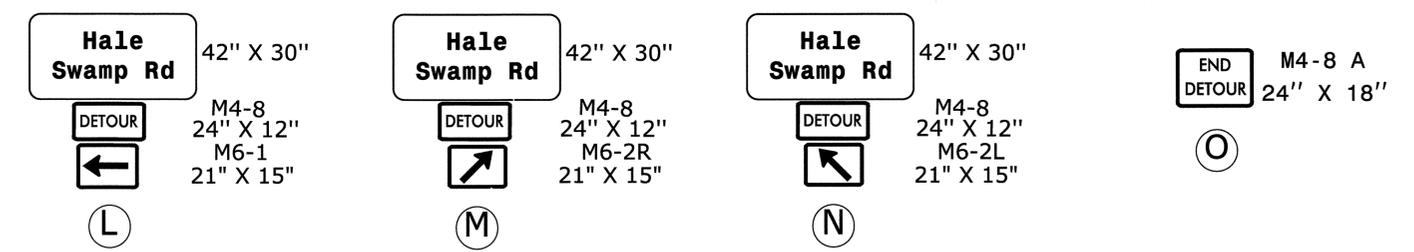
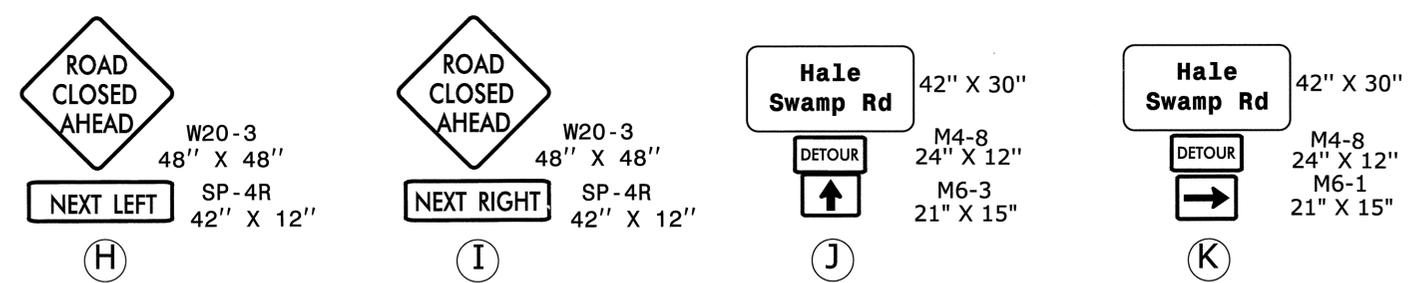
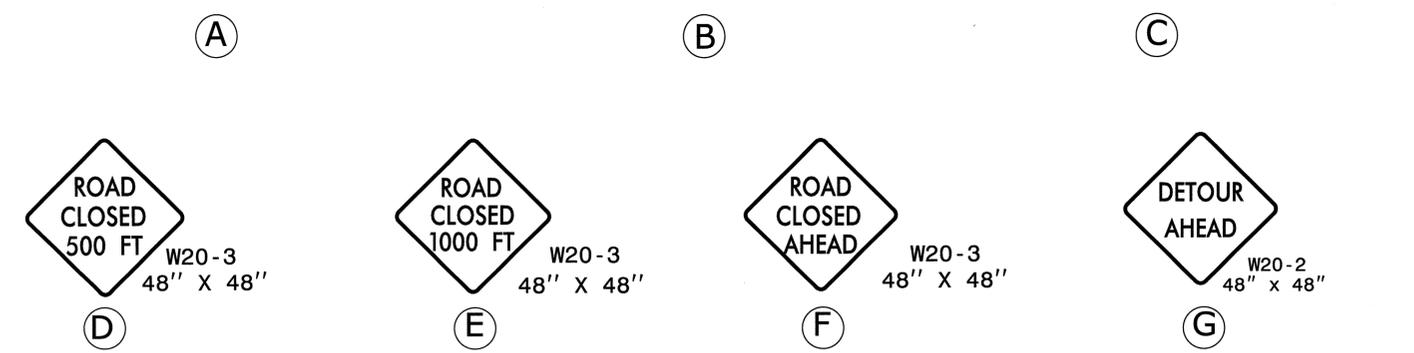
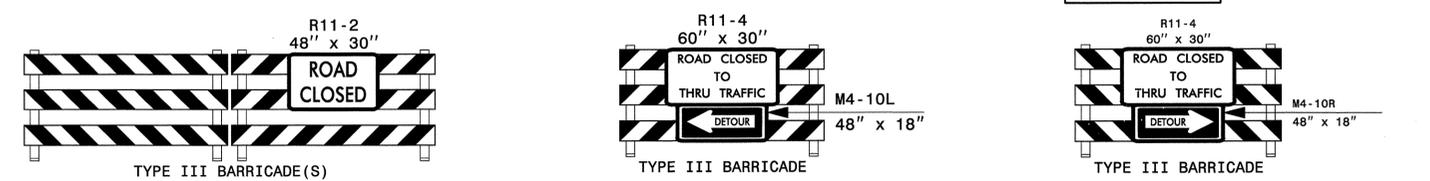
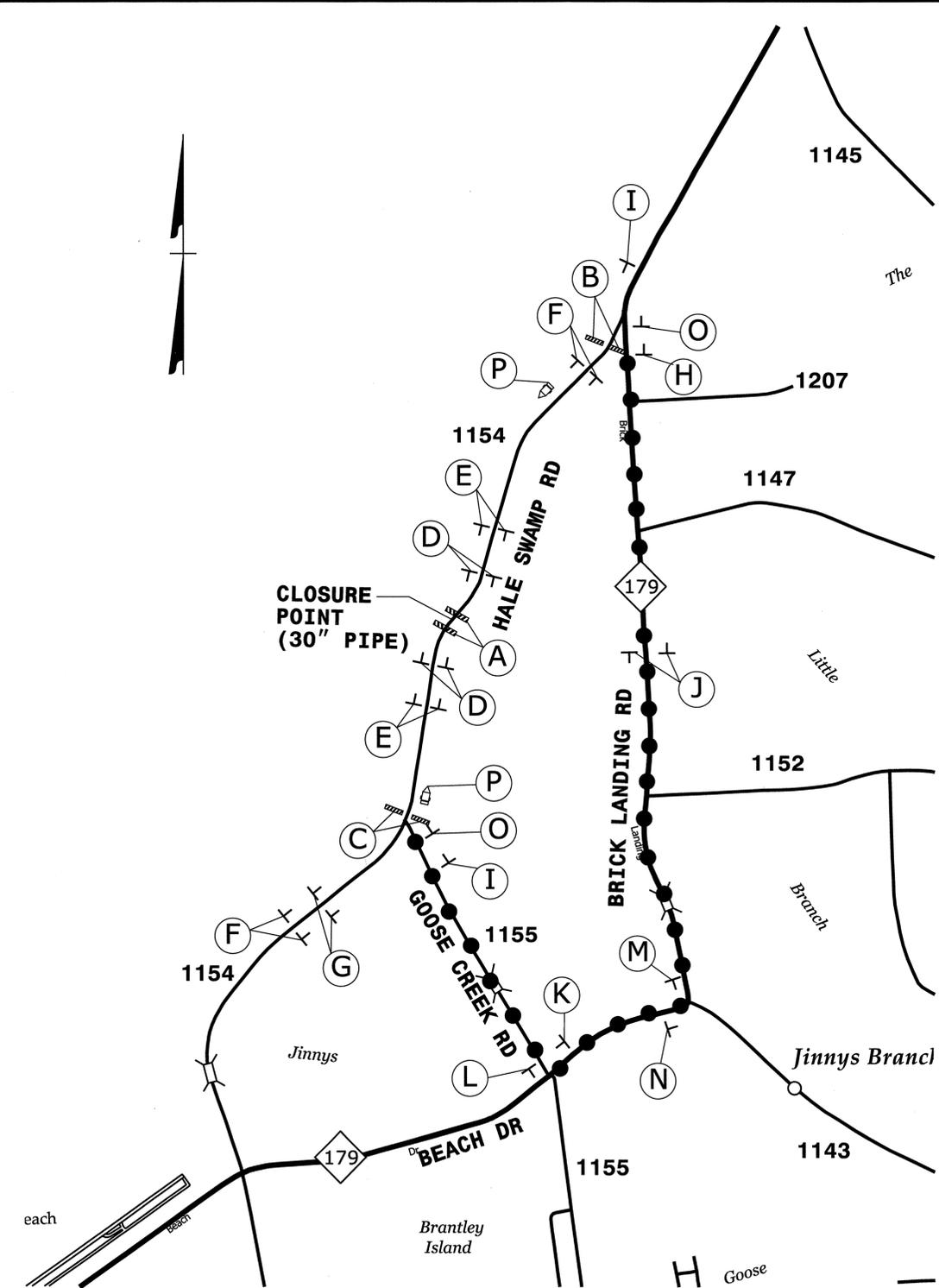
APPROVED: *Michael T. Rzepka* DATE: 9-3-13

SEAL

DETOUR FOR OCEAN ISLE BEACH ROAD CLOSURE

SCALE: NONE	REVISIONS
DATE: SEPT '13	
DWG. BY: ACP	
DESIGN BY: TAG	
REVIEWED BY: MTR	

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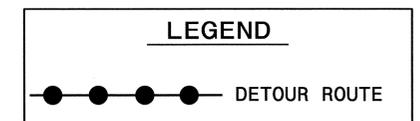
ACTIVATE CMS 14 DAYS PRIOR TO CLOSING ROAD

MESSAGE NO. 1	MESSAGE NO. 2
HALE SWAMP RD TO CLOSE	(DATE) TO (DATE)

CHANGEABLE MESSAGE SIGN

(P) MESSAGE AS SHOWN OR AS DIRECTED BY THE ENGINEER

SEE TMP-2 FOR SIGN DESIGNS



NOTE: THE DETOUR SIGNING IS IDENTICAL FOR THE ROUTE SHOWN ON BOTH TMP-10 AND TMP-11 WITH THE EXCEPTION OF SIGN ASSEMBLIES D, E AND F. PAYMENT FOR RELOCATING THESE SIGNS WILL BE MADE UNDER WORKZONE SIGNS (STATIONARY). COVER ALL DETOUR SIGNS WHEN NOT IN USE.

APPROVED: *Michael T. Kierka* DATE: 9-3-13

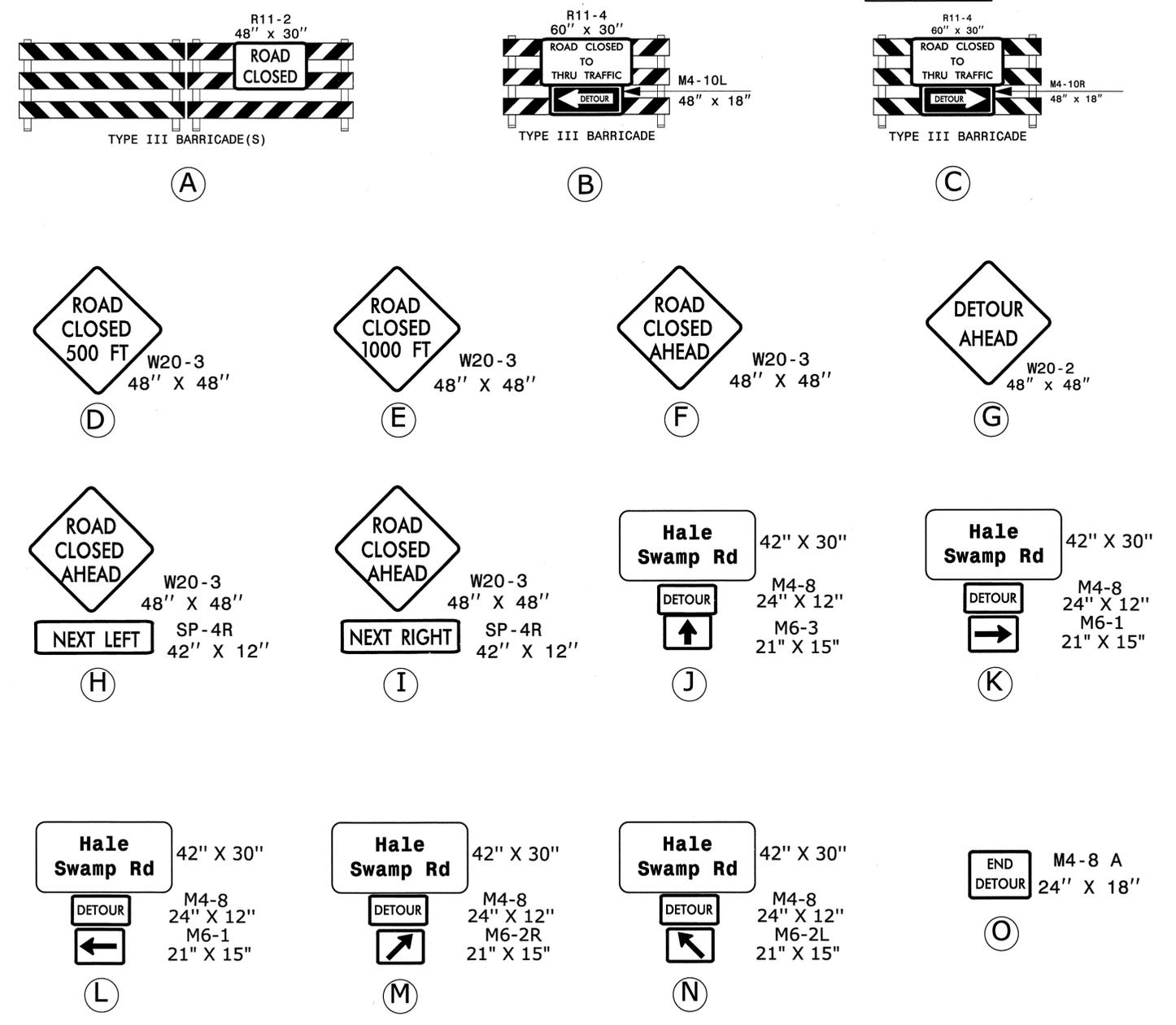
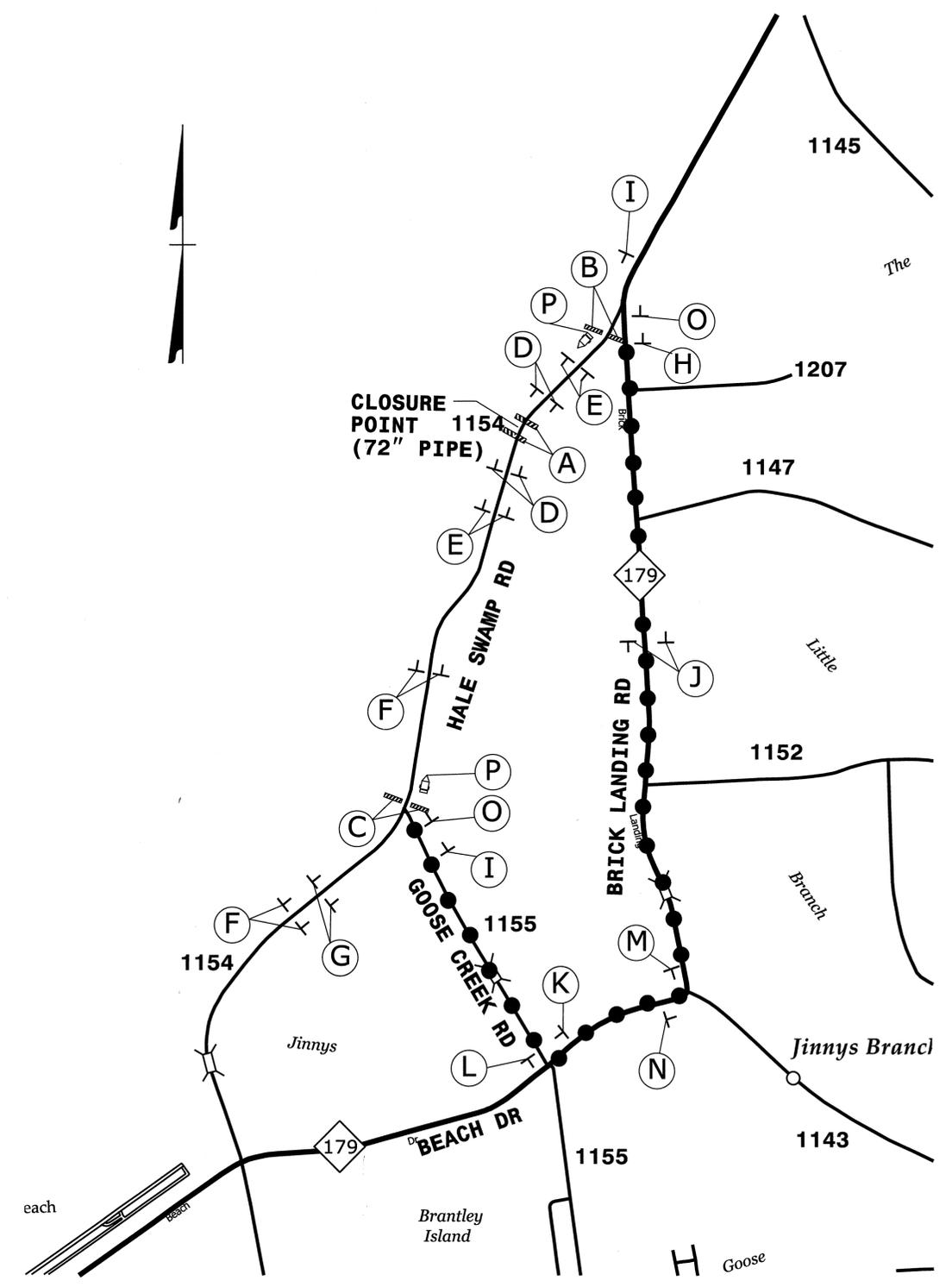
SEAL: MICHAEL T. KIERKA, ENGINEER, SEAL 15876

SCALE: NONE
 DATE: SEPT '13
 DWG. BY: ACP
 DESIGN BY: TAG
 REVIEWED BY: MTR

DETOUR FOR HALE SWAMP ROAD (30" PIPE) CLOSURE

REVISIONS	

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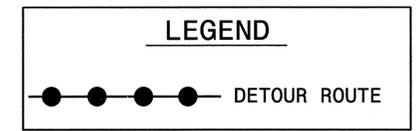
ACTIVATE CMS 14 DAYS PRIOR TO CLOSING ROAD

MESSAGE NO. 1	MESSAGE NO. 2
HALE SWAMP RD TO CLOSE	(DATE) TO (DATE)

CHANGEABLE MESSAGE SIGN

(P) MESSAGE AS SHOWN OR AS DIRECTED BY THE ENGINEER

SEE TMP-2 FOR SIGN DESIGNS



NOTE: THE DETOUR SIGNING IS IDENTICAL FOR THE ROUTE SHOWN ON BOTH TMP-10 AND TMP-11 WITH THE EXCEPTION OF SIGN ASSEMBLIES D, E AND F. PAYMENT FOR RELOCATING THESE SIGNS WILL BE MADE UNDER WORKZONE SIGNS (STATIONARY). COVER ALL DETOUR SIGNS WHEN NOT IN USE.

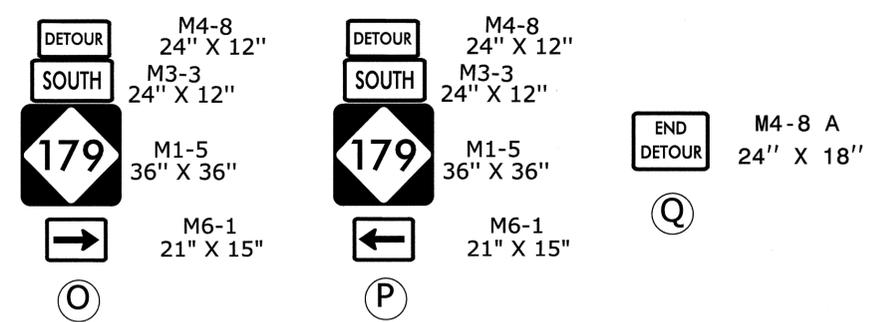
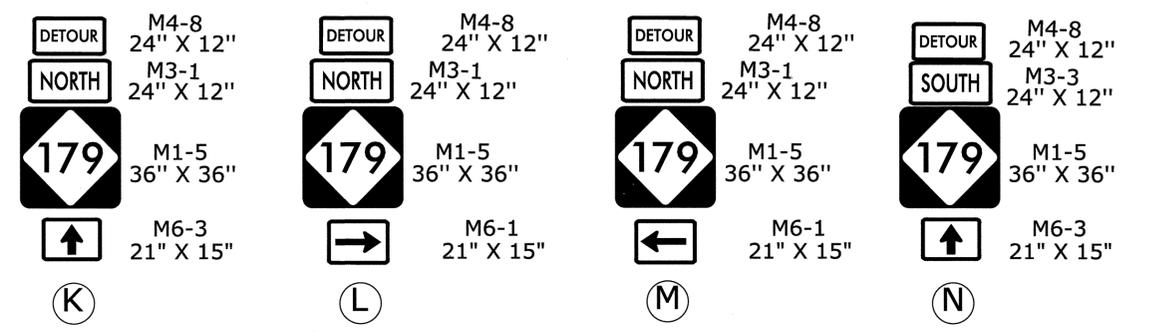
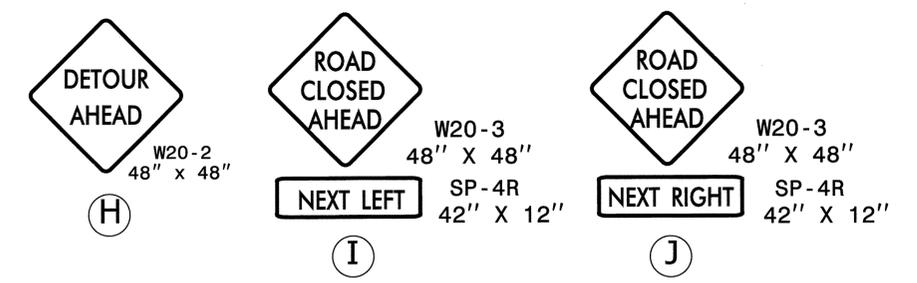
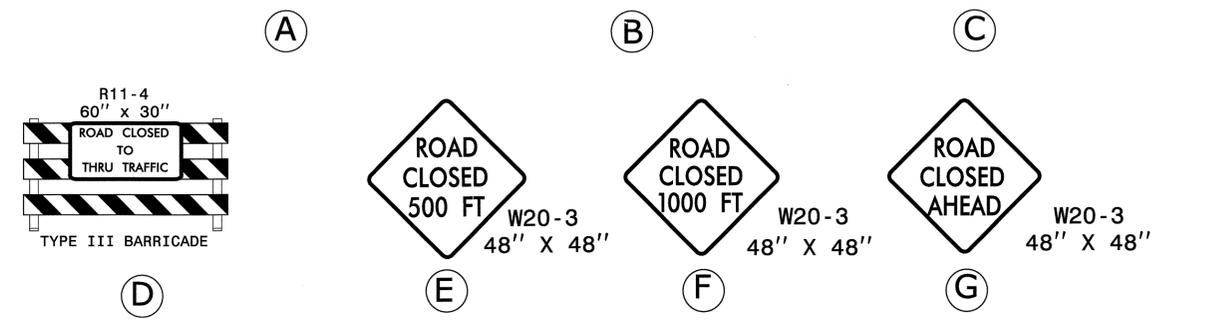
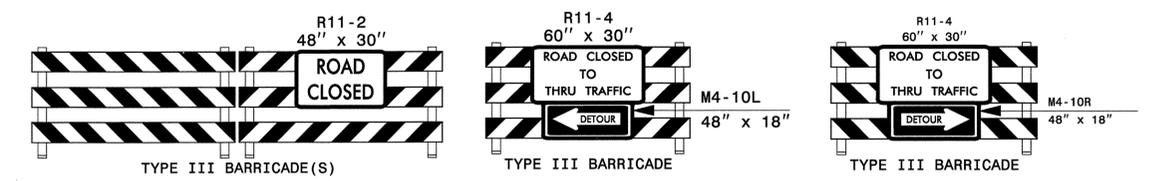
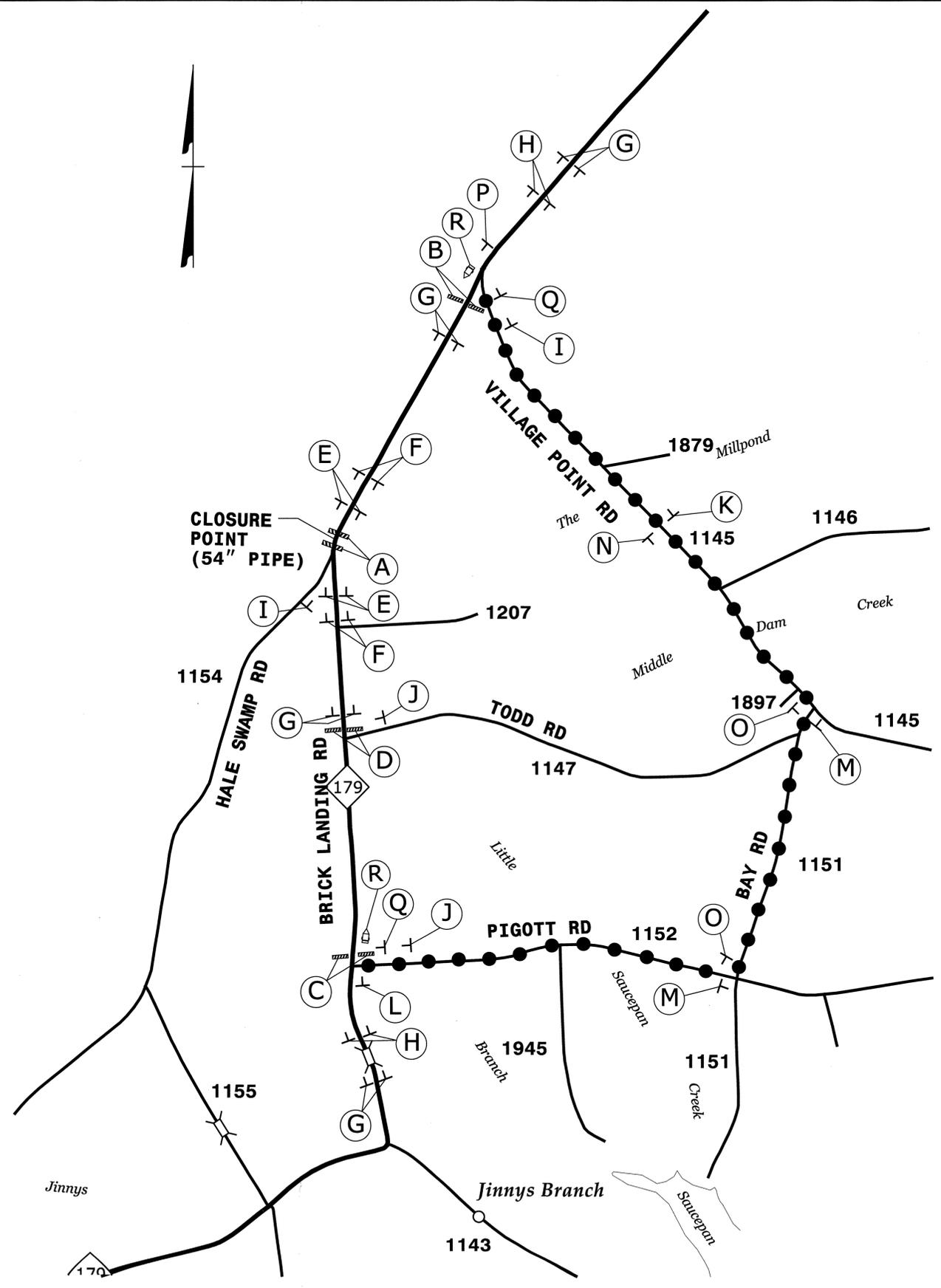
APPROVED: *Michael R. Rygoke* DATE: 9-3-13

SEAL:

DETOUR FOR HALE SWAMP ROAD (72" PIPE) CLOSURE

SCALE: NONE	REVISIONS
DATE: SEPT '13	
DWG. BY: ACP	
DESIGN BY: TAG	
REVIEWED BY: MTR	

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 Florence & Hutchison

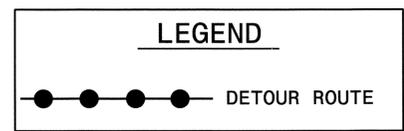


ACTIVATE CMS 14 DAYS PRIOR TO CLOSING ROAD

MESSAGE NO. 1	MESSAGE NO. 2
NC 179 TO CLOSE	(DATE) TO (DATE)

CHANGEABLE MESSAGE SIGN

(R) MESSAGE AS SHOWN OR AS DIRECTED BY THE ENGINEER



APPROVED: *Michael T. Ryzko* DATE: 9-3-13

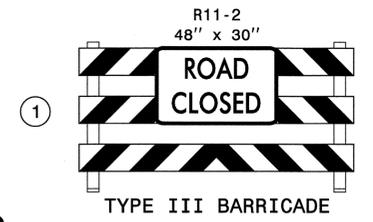
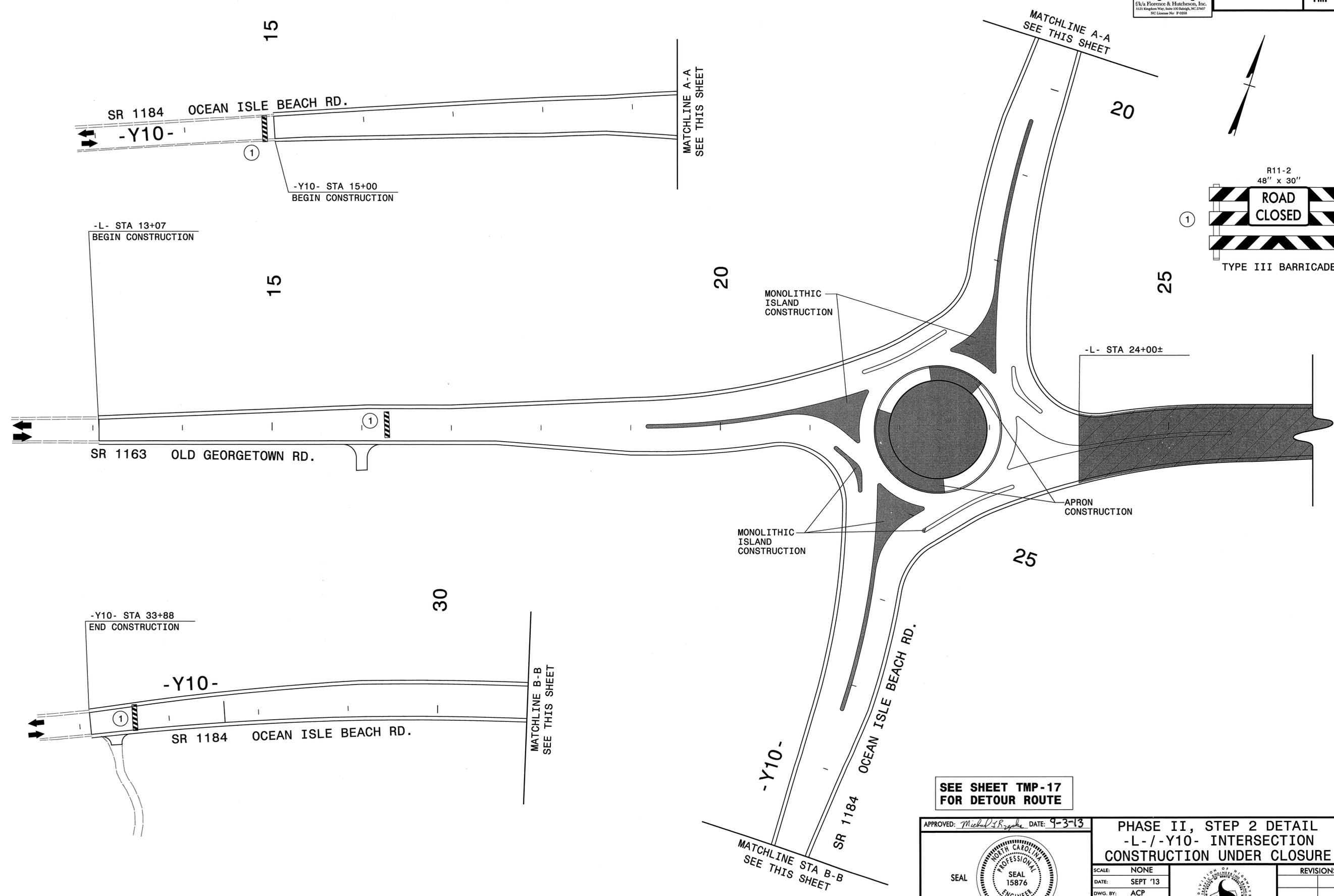
SEAL: 

DETOUR FOR NC 179 (BRICK LANDING RD.) CLOSURE

SCALE: NONE	REVISIONS
DATE: SEPT '13	
DWG. BY: ACP	
DESIGN BY: TAG	
REVIEWED BY: MTR	

CAUTION FILE

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 Florence & Hutcheson



SEE SHEET TMP-17
FOR DETOUR ROUTE

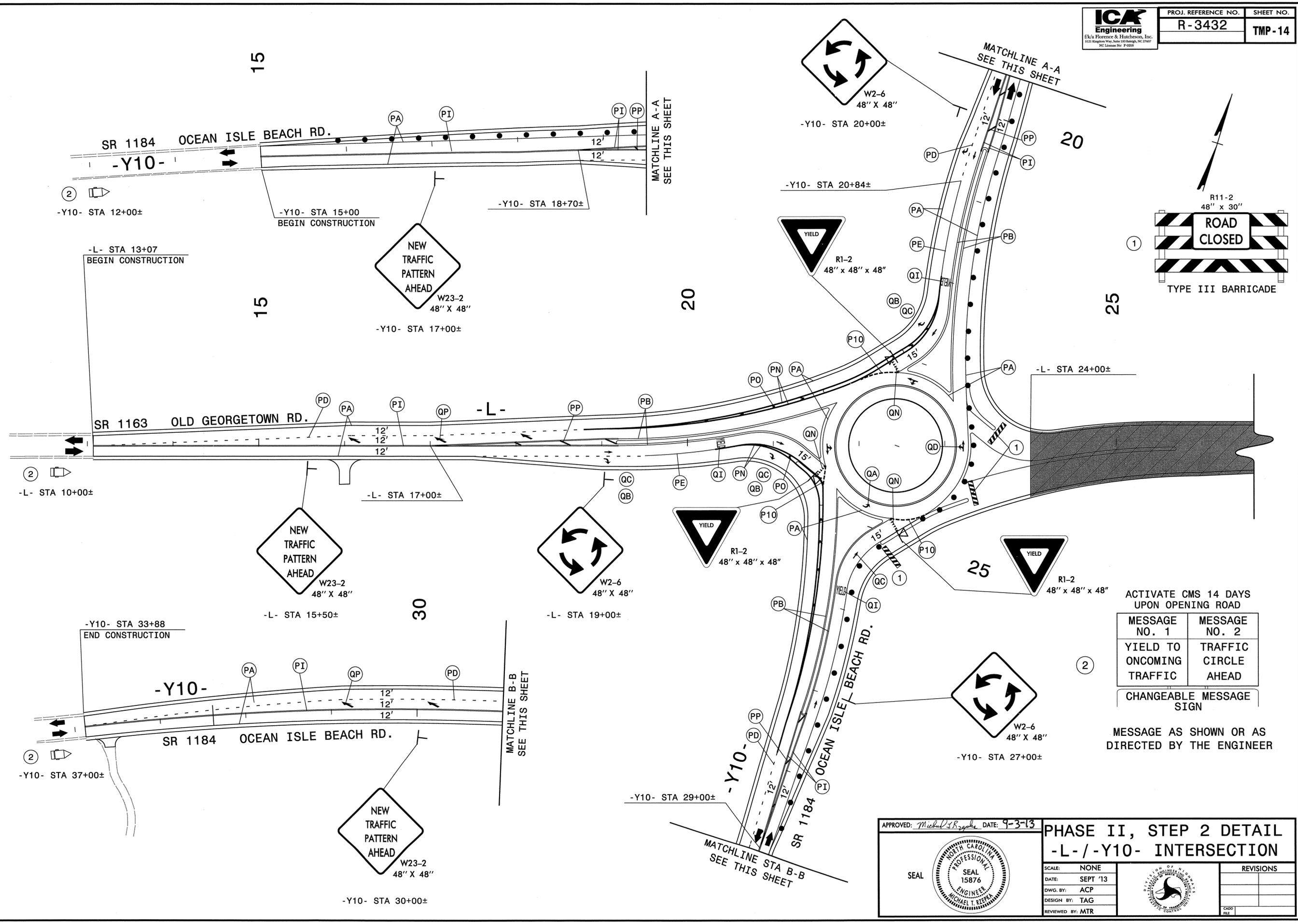
APPROVED: *Michael T. Rzepka* DATE: 9-3-13



PHASE II, STEP 2 DETAIL
-L-/-Y10- INTERSECTION
CONSTRUCTION UNDER CLOSURE

SCALE: NONE		REVISIONS
DATE: SEPT '13		
DWG. BY: ACP		
DESIGN BY: TAG		
REVIEWED BY: MTR		

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 Florence & Hutchinson



ACTIVATE CMS 14 DAYS UPON OPENING ROAD

MESSAGE NO. 1	MESSAGE NO. 2
YIELD TO ONCOMING TRAFFIC	TRAFFIC CIRCLE AHEAD

CHANGEABLE MESSAGE SIGN

MESSAGE AS SHOWN OR AS DIRECTED BY THE ENGINEER

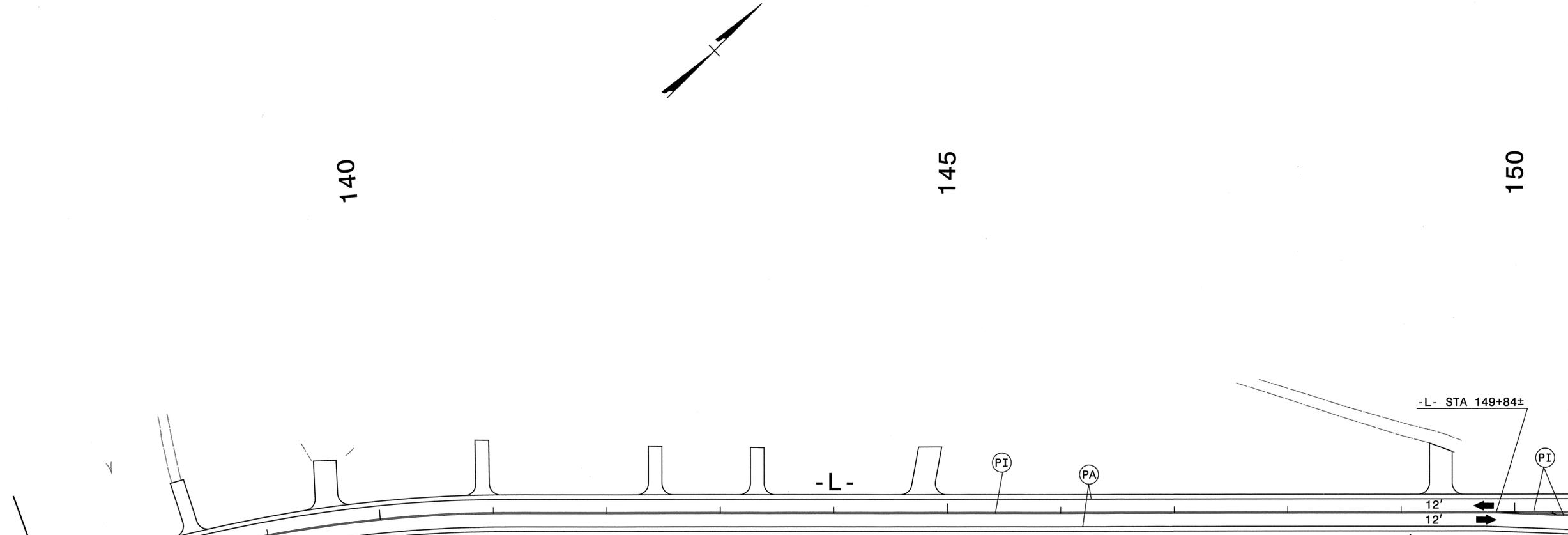
APPROVED: *Michael S. Reynolds* DATE: 9-3-13



PHASE II, STEP 2 DETAIL
-L-/-Y10- INTERSECTION

SCALE: NONE		REVISIONS
DATE: SEPT '13		
DWG. BY: ACP		
DESIGN BY: TAG		
REVIEWED BY: MTR		

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 Florence & Hutchinson



ACTIVATE CMS 14 DAYS
UPON OPENING ROAD

MESSAGE NO. 1	MESSAGE NO. 2
YIELD TO ONCOMING TRAFFIC	TRAFFIC CIRCLE AHEAD

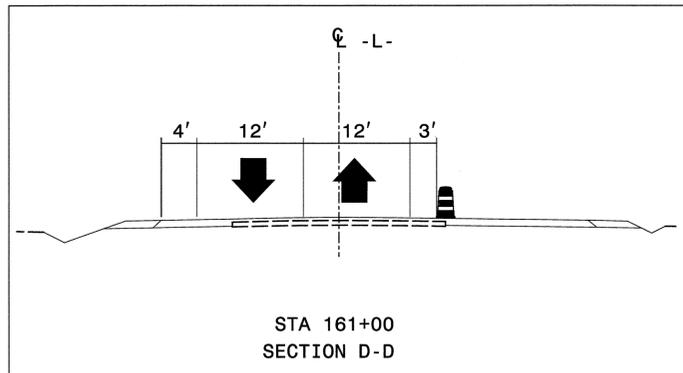
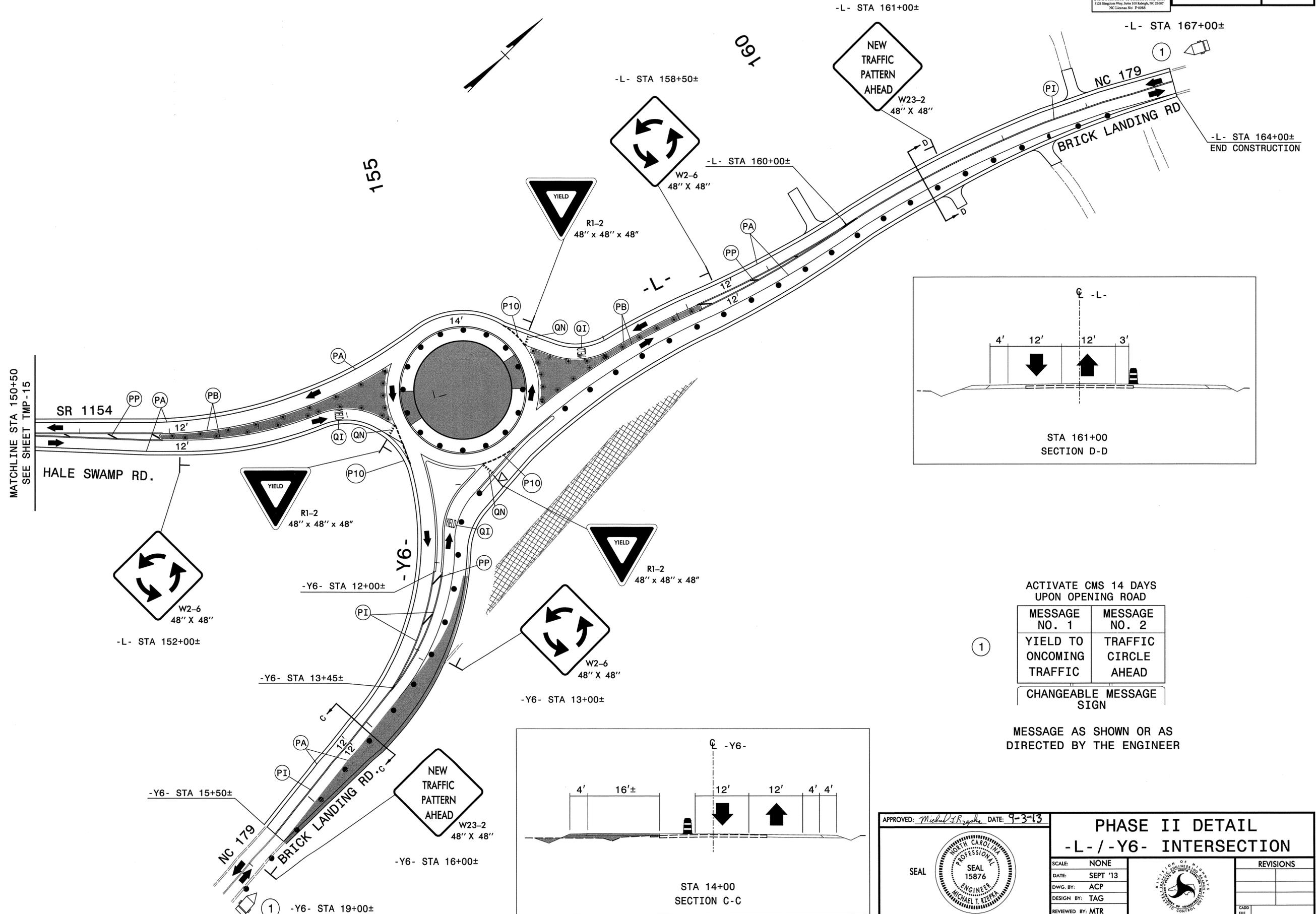
CHANGEABLE MESSAGE SIGN

MESSAGE AS SHOWN OR AS DIRECTED BY THE ENGINEER

MATCHLINE STA 150+50
SEE SHEET TMP-16

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Florence & Hitchcock

APPROVED: <i>Michael T. Zepka</i> DATE: 9-3-13	PHASE II DETAIL	
SEAL		
	SCALE: NONE	
	DATE: SEPT '13	
	DWG. BY: ACP	
	DESIGN BY: TAG	
	REVIEWED BY: MTR	
		REVISIONS
		CADD FILE

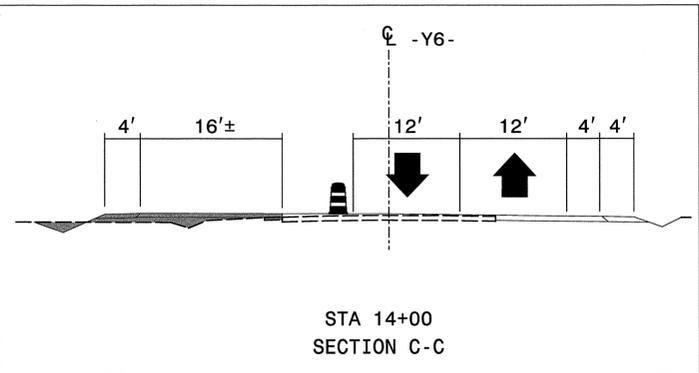


ACTIVATE CMS 14 DAYS
UPON OPENING ROAD

MESSAGE NO. 1	MESSAGE NO. 2
YIELD TO ONCOMING TRAFFIC	TRAFFIC CIRCLE AHEAD

CHANGEABLE MESSAGE SIGN

MESSAGE AS SHOWN OR AS DIRECTED BY THE ENGINEER



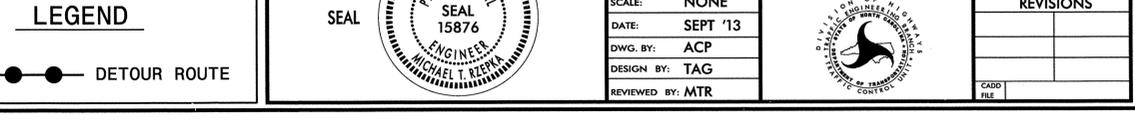
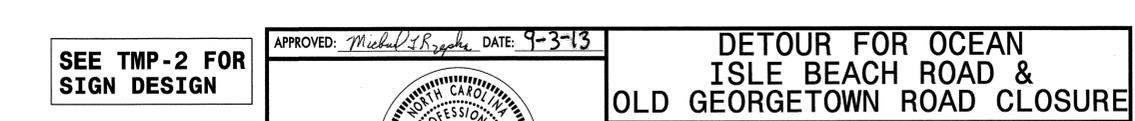
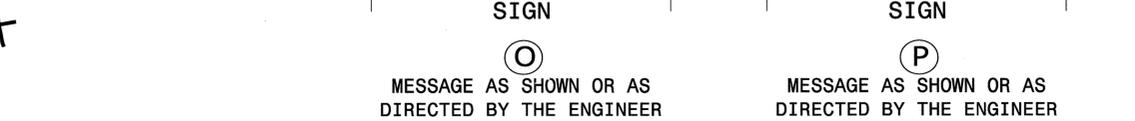
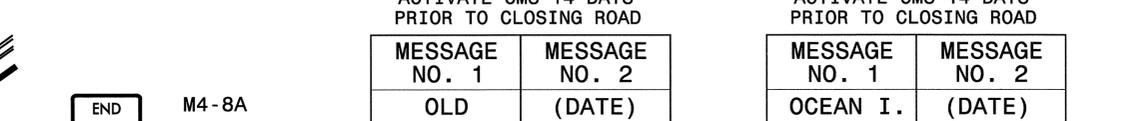
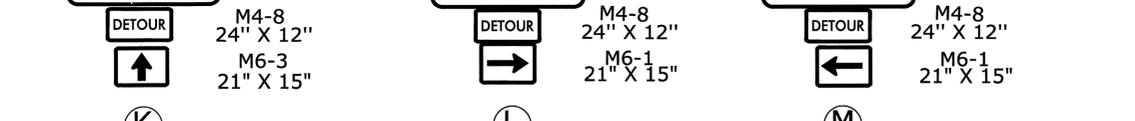
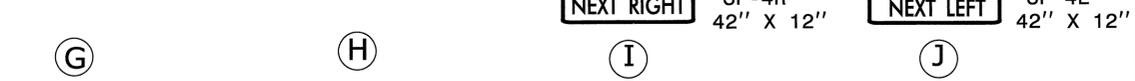
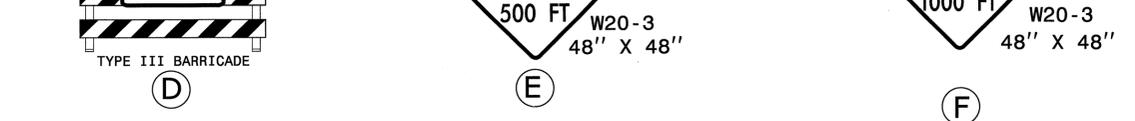
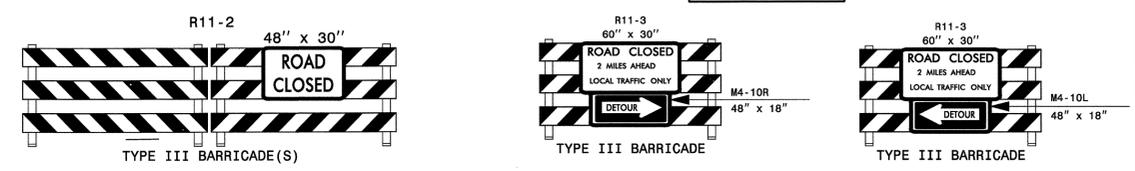
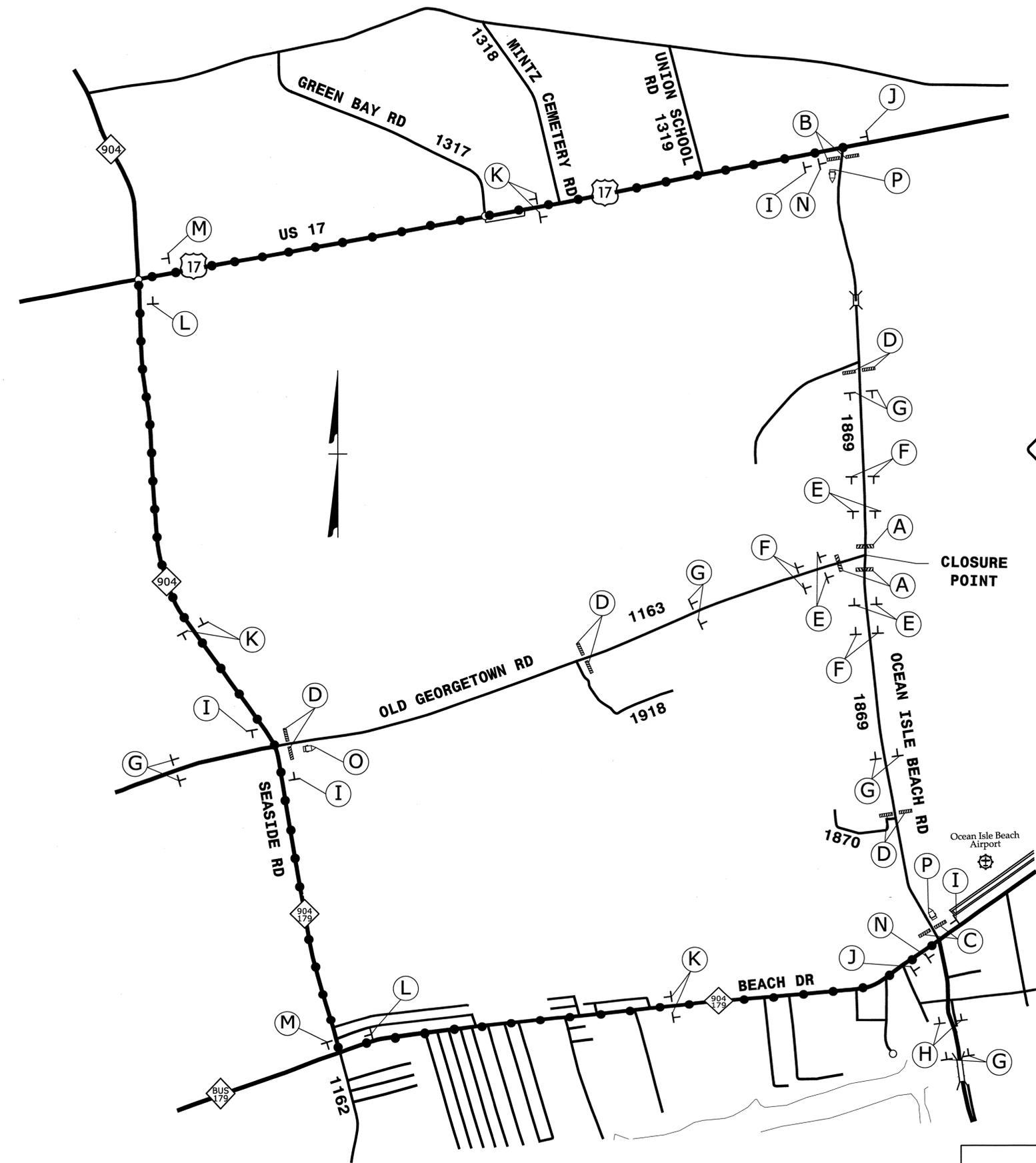
APPROVED: *Michael T. Rzepka* DATE: 9-3-13



PHASE II DETAIL
-L- / -Y6- INTERSECTION

SCALE: NONE		REVISIONS
DATE: SEPT '13		
DWG. BY: ACP		
DESIGN BY: TAG		
REVIEWED BY: MTR		

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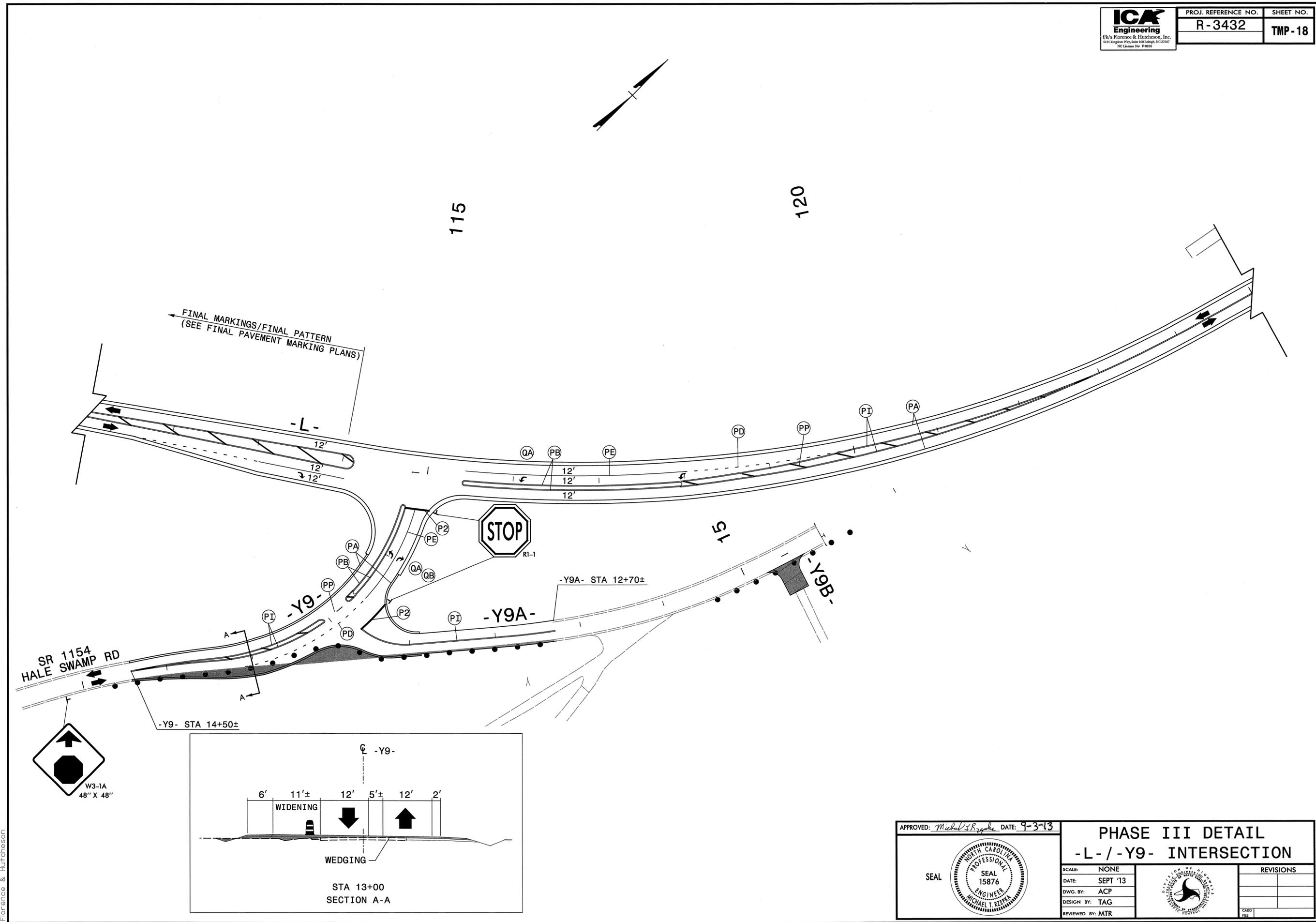
LEGEND
 ●●●●● DETOUR ROUTE

APPROVED: *Michael T. Rzepka* DATE: 9-3-13
 SEAL
 PROFESSIONAL ENGINEER
 SEAL 15876
 MICHAEL T. RZEPKA

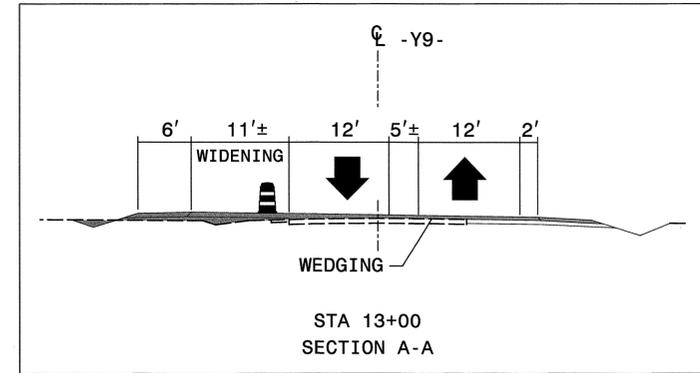
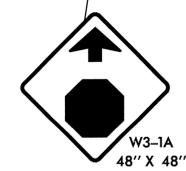
DETOUR FOR OCEAN ISLE BEACH ROAD & OLD GEORGETOWN ROAD CLOSURE
 SCALE: NONE
 DATE: SEPT '13
 DWG. BY: ACP
 DESIGN BY: TAG
 REVIEWED BY: MTR

REVISIONS	

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 Florence & Hutcheson



SR 1154
HALE SWAMP RD



APPROVED: *Michael T. Rzepka* DATE: 9-3-13



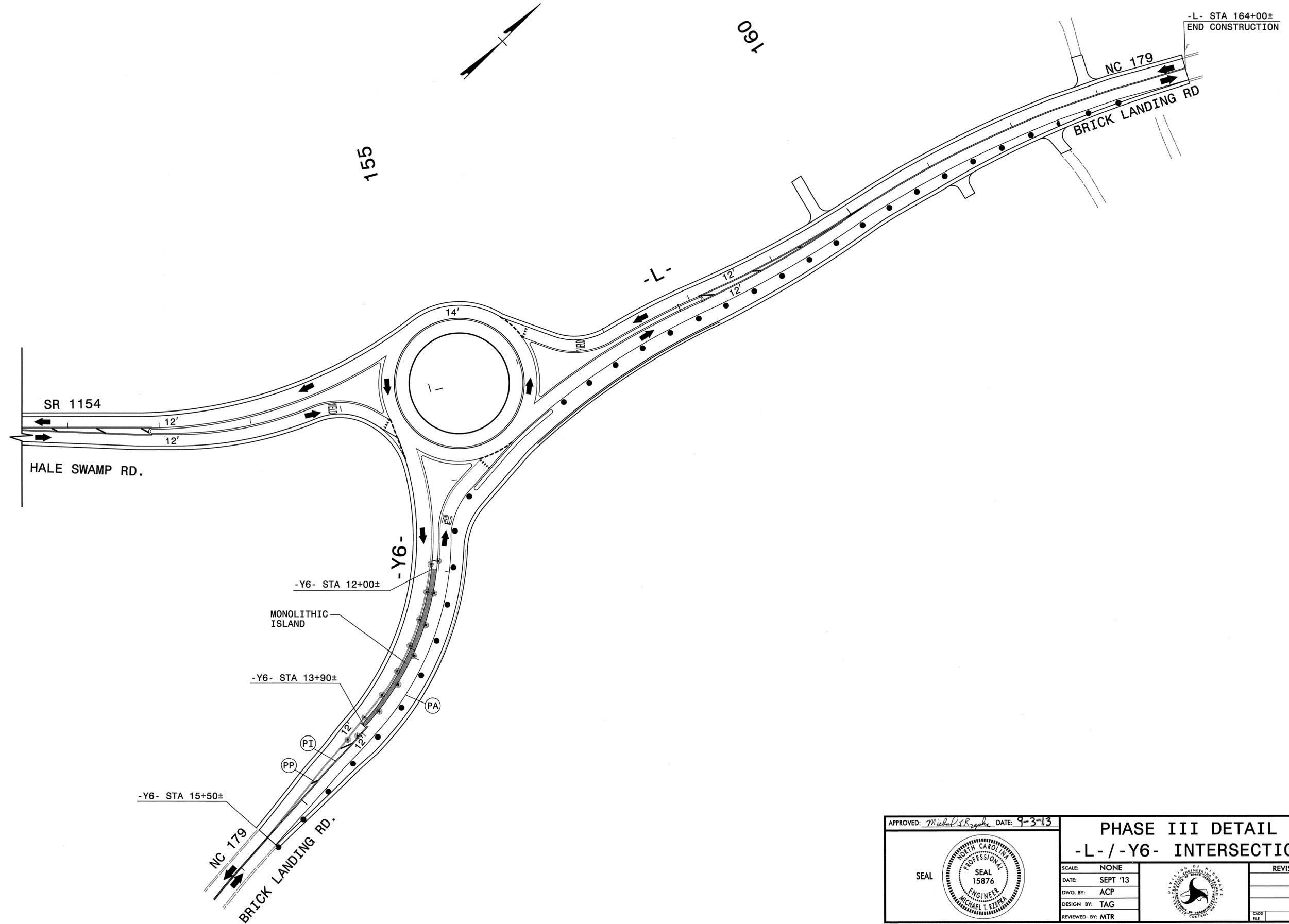
PHASE III DETAIL
-L- / -Y9- INTERSECTION

SCALE: NONE
DATE: SEPT '13
DWG. BY: ACP
DESIGN BY: TAG
REVIEWED BY: MTR



REVISIONS	

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Florence & Hutchinson



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 Florence & Hutchinson

APPROVED: <i>Michael T. Reppka</i> DATE: 9-3-13	PHASE III DETAIL -L- / -Y6- INTERSECTION					
SCALE: NONE		REVISIONS				
DATE: SEPT '13						
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ADD						
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