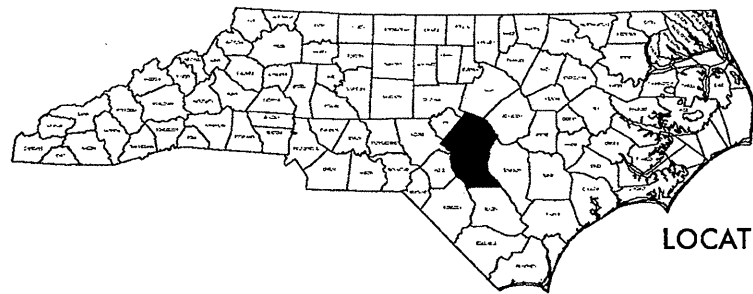


PROJECT: 17BP.6.P.5 & 17BP.6.P.6

CONTRACT NO: C203267



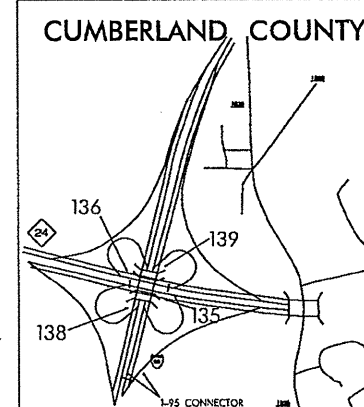
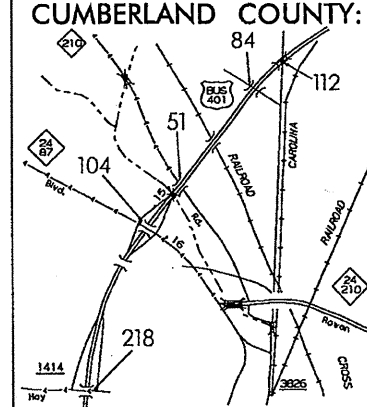
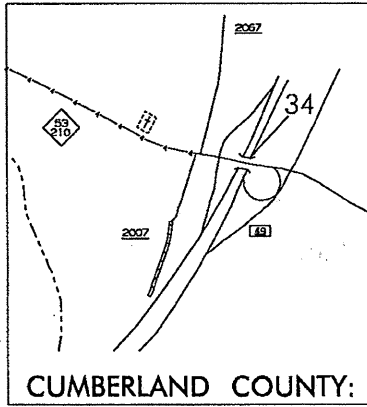
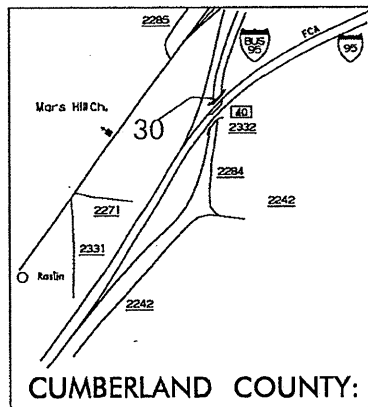
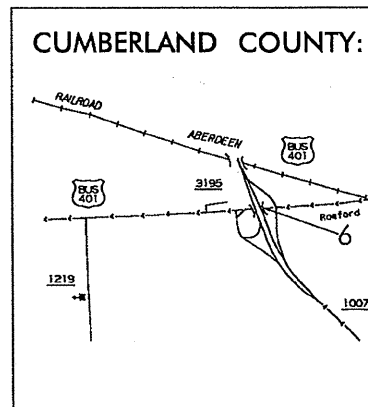
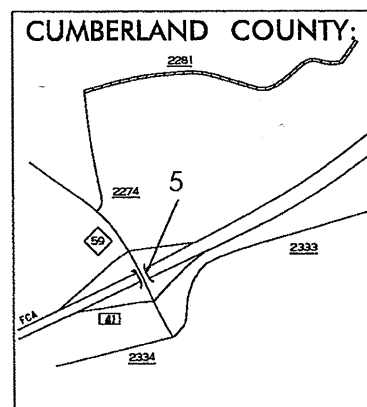
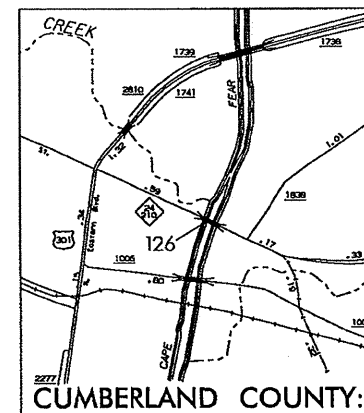
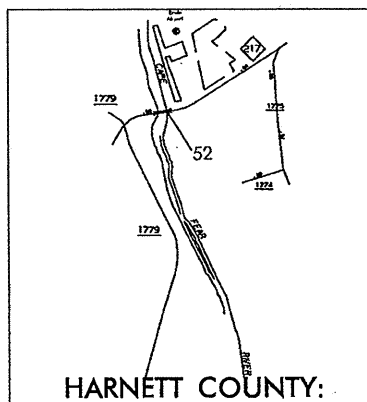
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CUMBERLAND AND HARNETT COUNTIES

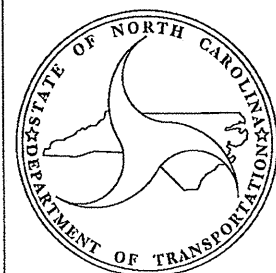
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.6.P.5 / 17BP.6.P.6	1	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.6.P.5	N/A	PE	
17BP.6.P.5	N/A	CONSTR	
17BP.6.P.6	N/A	PE	
17BP.6.P.6	N/A	CONSTR	

LOCATION: CUMBERLAND COUNTY:
 BRIDGE #5 ON NC 59 (CHICKEN FOOT RD.) OVER I-95
 BRIDGE #6 ON SR 1007 (ALL-AMERICAN FWY.) OVER US 401 BUS. (RAEFORD RD.)
 BRIDGE #30 ON I-95 SBL OVER I-95 LOOP NBL AND SR 2284
 BRIDGE #34 ON NC 53 / NC 210 (CEDAR CREEK RD.) OVER I-95
 BRIDGE #51 ON US 401 BUS. OVER NC 210 (MURCHISON RD.)
 BRIDGE #84 ON US 401 BUS. OVER CUMBERLAND ST.
 BRIDGE #104 ON NC 24 (BRAGG BLVD.) OVER US 401 BUS.
 BRIDGE #112 ON US 401 BUS. OVER HILLSBORO ST.
 BRIDGE #126 ON NC 24 / NC 210 (GROVE ST.) OVER CAPE FEAR RIVER
 BRIDGE #135 ON NC 24 EBL OVER I-95
 BRIDGE #136 ON NC 24 WBL OVER I-95
 BRIDGE #138 ON NC 24 EBL CONN. OVER I-95
 BRIDGE #139 ON NC 24 WBL CONN. OVER I-95
 BRIDGE #218 ON SR 1404 (HAY ST.) OVER US 401 BUS.

HARNETT COUNTY:
 BRIDGE #52 ON NC 217 OVER CAPE FEAR RIVER



TYPE OF WORK: BRIDGE PRESERVATION - CLEANING & PAINTING OF EXISTING BRIDGE STRUCTURES



DESIGN DATA	
HARNETT	CUMBERLAND
#52 ADT 2011 = 4800	#5 ADT 2011 = 16000
	#6 ADT 2004 = 51000
	#30 ADT 2011 = 16500
	#34 ADT 2011 = 12000
	#51 ADT 2009 = 20000
	#84 ADT 2009 = 20000
	#104 ADT 2010 = 21000
	#112 ADT 2010 = 22000
	#126 ADT 2010 = 22000
	#135 ADT 2008 = 6500
	#136 ADT 2010 = 6500
	#138 ADT 2010 = 6500
	#139 ADT 2010 = 6500
	#218 ADT 2010 = 25000

PROJECT LENGTH	
HARNETT	CUMBERLAND
BRIDGE #52 = .13 MILES	BRIDGE #5 = .05 MILES
	BRIDGE #6 = .04 MILES
	BRIDGE #30 = .08 MILES
	BRIDGE #34 = .06 MILES
	BRIDGE #51 = .03 MILES
	BRIDGE #84 = .03 MILES
	BRIDGE #104 = .03 MILES
	BRIDGE #112 = .03 MILES
	BRIDGE #126 = .12 MILES
	BRIDGE #135 = .08 MILES
	BRIDGE #136 = .08 MILES
	BRIDGE #138 = .08 MILES
	BRIDGE #139 = .08 MILES
	BRIDGE #218 = .03 MILES

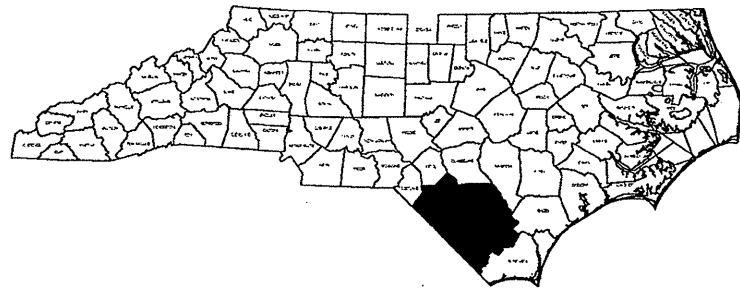
Prepared In the Office of:
STRUCTURES MANAGEMENT UNIT
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 2012 STANDARD SPECIFICATIONS

LETTING DATE:
 JUNE 18, 2013

RICK NELSON, PE
 PROJECT ENGINEER

FARZIN ASEFNIA P.E.
 PROJECT DESIGN ENGINEER

CONTRACT NO: C203267 PROJECT: 17BP.6.P.5 & 17BP.6.P.6



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BLADEN, COLUMBUS
AND ROBESON
COUNTIES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.6.P.5 / 17BP.6.P.6	1A	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.6.P.5	N/A	PE	
17BP.6.P.5	N/A	CONSTR	
17BP.6.P.6	N/A	PE	
17BP.6.P.6	N/A	CONSTR	

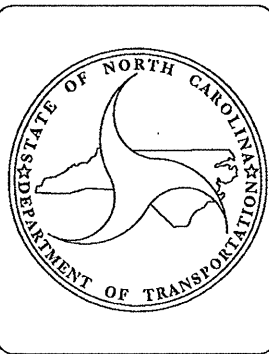
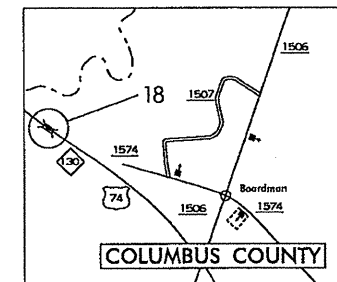
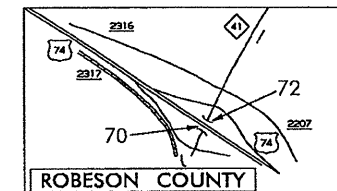
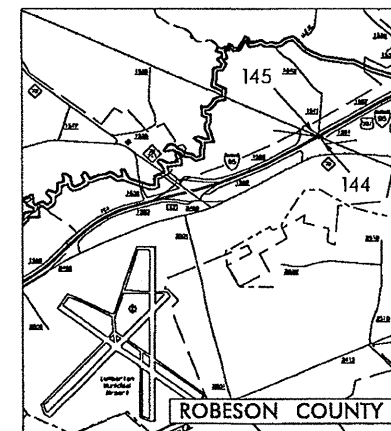
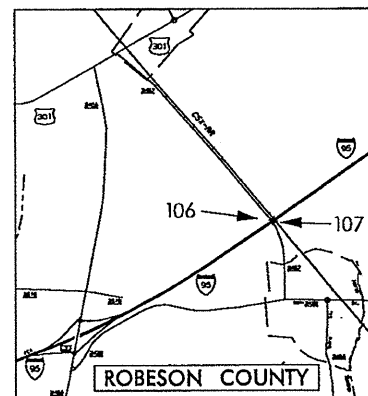
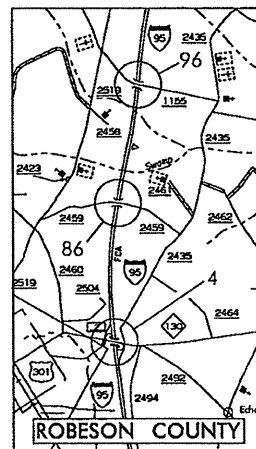
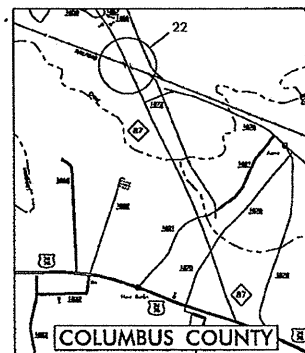
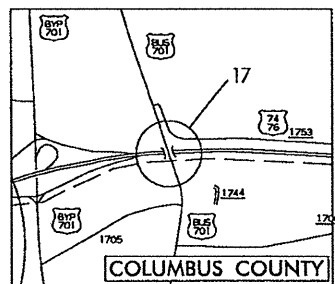
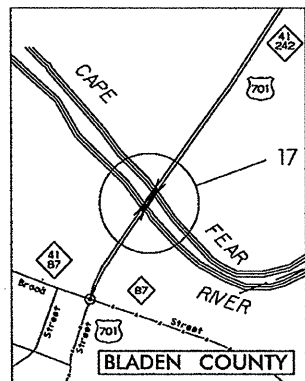
LOCATION: BLADEN COUNTY:
 BRIDGE #17 ON US 701/NC 41 OVER CAPE FEAR RIVER

COLUMBUS COUNTY:
 BRIDGE #17 ON US 701 BUS OVER US 74 BYPASS /US 76 BYPASS
 BRIDGE #18 ON US 74 WBL OVER LUMBER RIVER OVERFLOW
 BRIDGE #22 ON NC 87 OVER CSX-RR

ROBESON COUNTY:
 BRIDGE #4 ON NC 130 OVER I-95
 BRIDGE #70 ON US 74 EBL OVER NC 41
 BRIDGE #72 ON US 74 WBL OVER NC 41
 BRIDGE #86 ON SR 2459 OVER I-95
 BRIDGE #96 ON SR 1155 OVER I-95
 BRIDGE #106 ON I-95 NBL OVER SR 2457
 BRIDGE #107 ON I-95 SBL OVER SR 2457
 BRIDGE #144 ON I-95 NBL OVER SR 1541/CSX-RR
 BRIDGE #145 ON I-95 SBL OVER SR 1541/CSX-RR



TYPE OF WORK: BRIDGE PRESERVATION - CLEANING & PAINTING OF EXISTING BRIDGE STRUCTURES



DESIGN DATA			
BLADEN		ROBESON	
#17 ADT 2011 =	6500	#4 ADT 2009 =	3600
		#70 ADT 2011 =	4500
COLUMBUS		#72 ADT 2011 =	4500
#17 ADT 2011 =	4000	#86 ADT 2009 =	580
#18 ADT 2009 =	6500	#96 ADT 2009 =	680
#22 ADT 2007 =	10000	#106 ADT 2009 =	16000
		#107 ADT 2008 =	16000
		#144 ADT 2010 =	27000
		#145 ADT 2010 =	27000

PROJECT LENGTH			
BLADEN		ROBESON	
BRIDGE #17 =	.223 MILES	BRIDGE #4 =	.047 MILES
		BRIDGE #70 =	.029 MILES
COLUMBUS		BRIDGE #72 =	.029 MILES
BRIDGE #17 =	.048 MILES	BRIDGE #86 =	.050 MILES
BRIDGE #18 =	.026 MILES	BRIDGE #96 =	.050 MILES
BRIDGE #22 =	.037 MILES	BRIDGE #106 =	.043 MILES
		BRIDGE #107 =	.040 MILES
		BRIDGE #144 =	.044 MILES
		BRIDGE #145 =	.044 MILES

Prepared in the Office of:

STRUCTURES MANAGEMENT UNIT

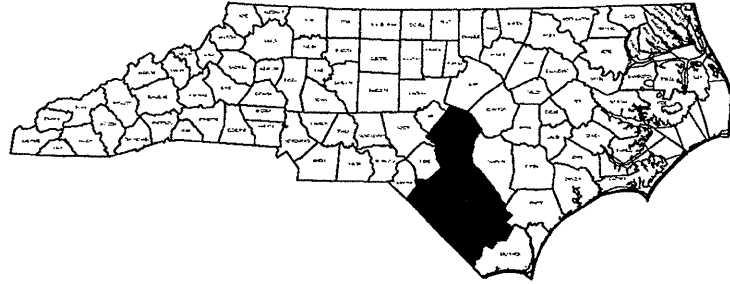
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2012 STANDARD SPECIFICATIONS

LETTING DATE: JUNE 18, 2013	RICK NELSON, PE <small>PROJECT ENGINEER</small>
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FARZIN ASEFNIA P.E.
PROJECT DESIGN ENGINEER

CONTRACT NO: C203267 PROJECT: 17BP.6.P.5 & 17BP.6.P.6



STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

**BLADEN, COLUMBUS, CUMBERLAND,
 HARNETT AND ROBESON
 COUNTIES**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.6.P.5 / 17BP.6.P.6	1B	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.6.P.5	N/A	PE	
17BP.6.P.5	N/A	CONSTR	
17BP.6.P.6	N/A	PE	
17BP.6.P.6	N/A	CONSTR	

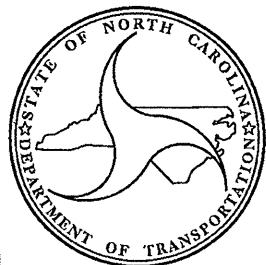
LOCATION: CUMBERLAND COUNTY:
 BRIDGE #5 ON NC 59 (CHICKEN FOOT RD.) OVER I-95
 BRIDGE #6 ON SR 1007 (ALL-AMERICAN FWY.) OVER US 401 BUS. (RAEFORD RD.)
 BRIDGE #30 ON I-95 SBL OVER I-95 LOOP NBL AND SR 2284
 BRIDGE #34 ON NC 53 / NC 210 (CEDAR CREEK RD.) OVER I-95
 BRIDGE #51 ON US 401 BUS. OVER NC 210 (MURCHISON RD.)
 BRIDGE #84 ON US 401 BUS. OVER CUMBERLAND ST.
 BRIDGE #104 ON NC 24 (BRAGG BLVD.) OVER US 401 BUS.
 BRIDGE #112 ON US 401 BUS. OVER HILLSBORO ST.
 BRIDGE #126 ON NC 24 / NC 210 (GROVE ST.) OVER CAPE FEAR RIVER
 BRIDGE #135 ON NC 24 EBL OVER I-95
 BRIDGE #136 ON NC 24 WBL OVER I-95
 BRIDGE #138 ON NC 24 EBL CONN. OVER I-95
 BRIDGE #139 ON NC 24 WBL CONN. OVER I-95
 BRIDGE #218 ON SR 1404 (HAY ST.) OVER US 401 BUS.
HARNETT COUNTY:
 BRIDGE #52 ON NC 217 OVER CAPE FEAR RIVER

BLADEN COUNTY:
 BRIDGE #17 ON US 701 / NC 41 OVER CAPE FEAR RIVER
COLUMBUS COUNTY:
 BRIDGE #17 ON US 701 BUS OVER US 74 BYPASS / US 76 BYPASS
 BRIDGE #18 ON US 74 WBL OVER LUMBER RIVER OVERFLOW
 BRIDGE #22 ON NC 87 OVER CSX-RR
ROBESON COUNTY:
 BRIDGE #4 ON NC 130 OVER I-95
 BRIDGE #70 ON US 74 EBL OVER NC 41
 BRIDGE #72 ON US 74 WBL OVER NC 41
 BRIDGE #86 ON SR 2459 OVER I-95
 BRIDGE #96 ON SR 1155 OVER I-95
 BRIDGE #106 ON I-95 NBL OVER SR 2457
 BRIDGE #107 ON I-95 SBL OVER SR 2457
 BRIDGE #144 ON I-95 NBL OVER SR 1541 / CSX-RR
 BRIDGE #145 ON I-95 SBL OVER SR 1541 / CSX-RR

TYPE OF WORK: BRIDGE PRESERVATION- CLEANING & PAINTING OF EXISTING BRIDGE STRUCTURES

INDEX OF SHEETS

<u>SHT#</u>	<u>DESCRIPTION</u>	<u>SHT#</u>	<u>DESCRIPTION</u>
1-1A	COMBINED TITLE SHEETS	TMP-1 THRU TMP-11A	TRAFFIC MANAGEMENT PLANS (17BP.6.P.5)
1B	INDEX OF SHEETS	4	TITLE SHEET (17BP.6.P.6)
1C	COMBINED TOTAL BILL OF MATERIAL	TMP-1 THRU TMP-7	TRAFFIC MANAGEMENT PLANS (17BP.6.P.6)
2	SUMMARY OF QUANTITIES	5	STRUCTURAL STEEL REPAIR
3	TITLE SHEET (17BP.6.P.5)		



Prepared in the Office of:
STRUCTURES MANAGEMENT UNIT
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 2012 STANDARD SPECIFICATIONS

LETTING DATE: JUNE 18, 2013	RICK NELSON, PE <small>PROJECT ENGINEER</small>
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FARZIN ASEFNIA P.E.
PROJECT DESIGN ENGINEER

TOTAL BILL OF MATERIAL

COUNTY	BRIDGE NO.	17BP.6.P.5				COUNTY	BRIDGE NO.	17BP.6.P.6				
		PAINTING CONTAINMENT BRIDGE #___	CLEANING & REPAINTING BRIDGE #___	PAINTING EXIST. WEATHERING STEEL STRUCTURE BRIDGE #___	EPOXY COATING			PAINTING CONTAINMENT BRIDGE #___	CLEANING & REPAINTING BRIDGE #___	GIRDER REPAIR*	BRIDGE JACKING*	EPOXY COATING
		LUMP SUM	LUMP SUM	LUMP SUM	SO. FT.			LUMP SUM	LUMP SUM	LBS.	EACH	SO. FT.
CUMBERLAND	5	LUMP SUM	---	LUMP SUM	567	BLADEN	17	LUMP SUM	LUMP SUM	---	---	1481
	6	LUMP SUM	LUMP SUM	---	1155	COLUMBUS	17	LUMP SUM	LUMP SUM	---	---	452
	30	LUMP SUM	---	LUMP SUM	964		18	LUMP SUM	LUMP SUM	---	---	413
	34	LUMP SUM	---	LUMP SUM	1183		22	LUMP SUM	LUMP SUM	---	---	492
	51	LUMP SUM	LUMP SUM	---	1220	ROBESON	4	LUMP SUM	LUMP SUM	---	---	1104
	84	LUMP SUM	LUMP SUM	---	977		70	LUMP SUM	LUMP SUM	---	---	598
	104	LUMP SUM	LUMP SUM	---	876		72	LUMP SUM	LUMP SUM	---	---	500
	112	LUMP SUM	LUMP SUM	---	1300		86	LUMP SUM	LUMP SUM	---	---	482
	126	LUMP SUM	LUMP SUM	---	1544		96	LUMP SUM	LUMP SUM	---	---	479
	135	LUMP SUM	---	LUMP SUM	623		106	LUMP SUM	LUMP SUM	---	---	571
	136	LUMP SUM	---	LUMP SUM	623		107	LUMP SUM	LUMP SUM	---	---	571
	138	LUMP SUM	---	LUMP SUM	590		144	LUMP SUM	LUMP SUM	---	---	534
	139	LUMP SUM	---	LUMP SUM	590		145	LUMP SUM	LUMP SUM	---	---	534
	218	LUMP SUM	LUMP SUM	---	670	TOTAL		---	---	5,300	12	8211
HARNETT	52	LUMP SUM	LUMP SUM	---	744							
TOTAL		---	---	---	13626							

* FOR INFORMATION ONLY. ACTUAL QUANTITY WILL BE DETERMINED IN THE FIELD.

PROJECT NO. 17BP.6.P.5 & 17BP.6.P.6
 BLADEN, HARNETT, ROBESON,
 COUNTIES: COLUMBUS, CUMBERLAND
 BRIDGE NO. _____



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**COMBINED
 TOTAL BILL
 OF MATERIAL**

REVISIONS						SHEET NO. 1C
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS
2			4			

DRAWN BY : J. YANNACCONE DATE : 04/13
 CHECKED BY : F. ASEFNIA DATE : 04/13

SUMMARY OF QUANTITIES - 17BP.6.P.5/17BP.6.P.6

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C203267

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
4400000000-E	1110	512	SF	WORK ZONE SIGNS (STATIONARY)
4405000000-E	1110	1,302	SF	WORK ZONE SIGNS (PORTABLE)
4410000000-E	1110	26	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
4415000000-N	1115	4	EA	FLASHING ARROW BOARD
4420000000-N	1120	4	EA	PORTABLE CHANGEABLE MESSAGE SIGN
4430000000-N	1130	950	EA	DRUMS
4435000000-N	1135	50	EA	CONES
4445000000-E	1145	48	LF	BARRICADES (TYPE III)
4450000000-N	1150	896	HR	FLAGGER
4480000000-N	1165	2	EA	TMA
4510000000-N	SP	672	HR	LAW ENFORCEMENT
8296000000-N	442	Lump Sum		POLLUTION CONTROL
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #104 CUMBERLAND
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #106 ROBESON
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #107 ROBESON
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #112 CUMBERLAND
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #126 CUMBERLAND
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #144 ROBESON
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #145 ROBESON
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #17 BLADEN

ItemNumber	Sec #	Quantity	Unit	Description
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #17 COLUMBUS
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #18 COLUMBUS
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #218 CUMBERLAND
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #22 COLUMBUS
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #4 ROBESON
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #51 CUMBERLAND
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #52 HARNETT
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #6 CUMBERLAND
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #70 ROBESON
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #72 ROBESON
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #84 CUMBERLAND
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #86 ROBESON
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM CLEANING & REPAINTING BRIDGE #96 ROBESON
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #104 CUMBERLAND
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #106 ROBESON

SUMMARY OF QUANTITIES - 17BP.6.P.5/17BP.6.P.6

ItemNumber	Sec #	Quantity	Unit	Description
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #107 ROBESON
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #112 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #126 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #135 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #136 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #138 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #139 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #144 ROBESON
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #145 ROBESON
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #17 BLADEN
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #17 COLUMBUS
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #18 COLUMBUS
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #218 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #22 COLUMBUS
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #30 CUMBERLAND

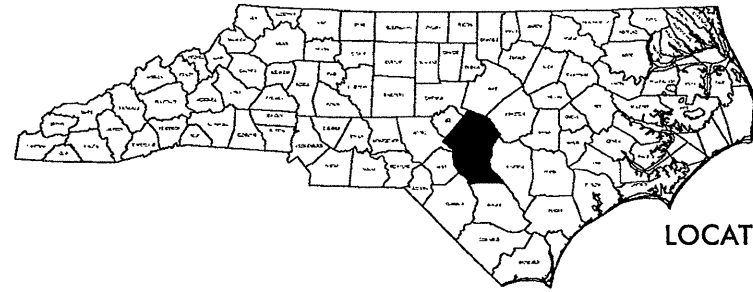
ItemNumber	Sec #	Quantity	Unit	Description
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #34 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #4 ROBESON
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #5 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #51 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #52 HARNETT
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #6 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #70 ROBESON
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #72 ROBESON
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #84 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #86 ROBESON
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING CONTAINMENT BRIDGE #96 ROBESON
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING EXIST. WEATHERING STEEL STRUCTURE OF BRIDGE #135 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING EXIST. WEATHERING STEEL STRUCTURE OF BRIDGE #136 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING EXIST. WEATHERING STEEL STRUCTURE OF BRIDGE #138 CUMBERLAND

SUMMARY OF QUANTITIES - 17BP.6.P.5/17BP.6.P.6

ItemNumber	Sec #	Quantity	Unit	Description
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING EXIST. WEATHERING STEEL STRUCTURE OF BRIDGE #139 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING EXIST. WEATHERING STEEL STRUCTURE OF BRIDGE #30 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING EXIST. WEATHERING STEEL STRUCTURE OF BRIDGE #34 CUMBERLAND
886000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PAINTING EXIST. WEATHERING STEEL STRUCTURE OF BRIDGE #5 CUMBERLAND
888900000-E	SP	5,300	LB	GENERIC STRUCTURE ITEM GIRDER REPAIR
889200000-E	SP	21,837	SF	GENERIC STRUCTURE ITEM EPOXY COATING
889700000-N	SP	12	EA	GENERIC STRUCTURE ITEM BRIDGE JACKING

PROJECT: 17BP.6.P.5

CONTRACT NO: C203267



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

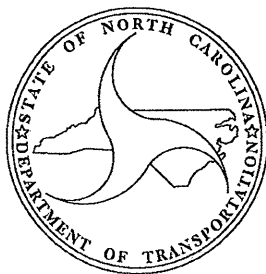
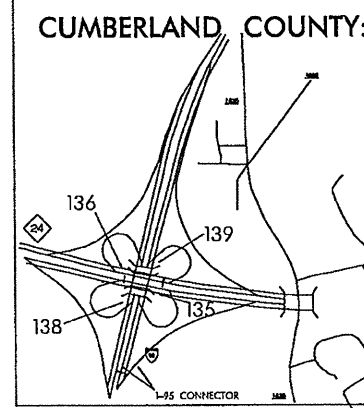
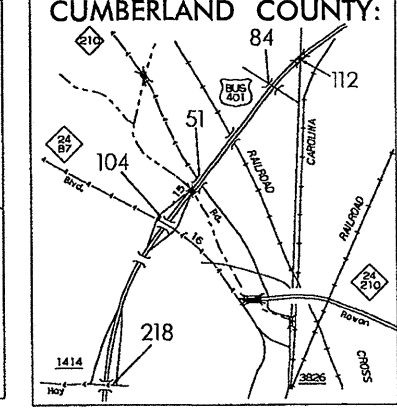
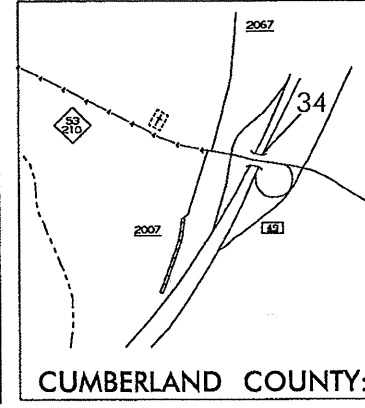
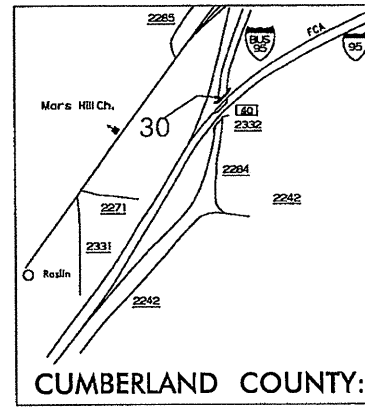
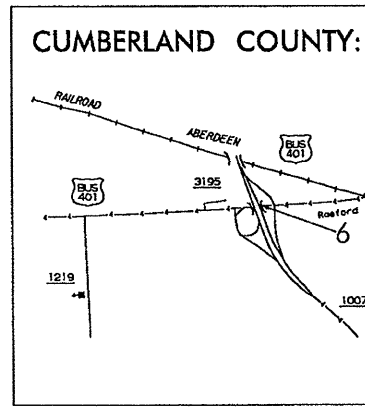
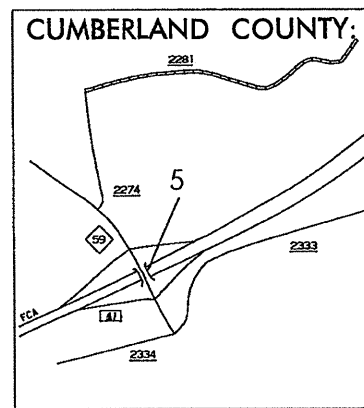
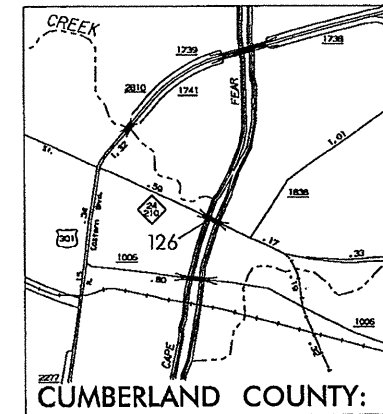
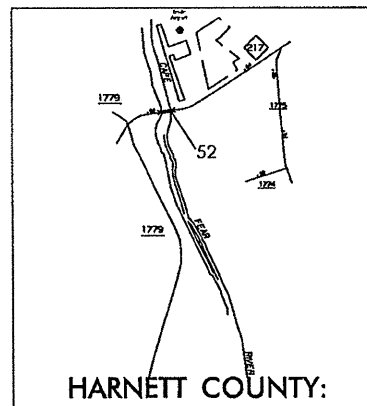
CUMBERLAND AND HARNETT COUNTIES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.6.P.5	3	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.6.P.5	N/A	PE	
17BP.6.P.5	N/A	CONSTR	

LOCATION: CUMBERLAND COUNTY:
 BRIDGE #5 ON NC 59 (CHICKEN FOOT RD.) OVER I-95
 BRIDGE #6 ON SR 1007 (ALL-AMERICAN FWY.) OVER US 401 BUS. (RAEFORD RD.)
 BRIDGE #30 ON I-95 SBL OVER I-95 LOOP NBL AND SR 2284
 BRIDGE #34 ON NC 53 /NC 210 (CEDAR CREEK RD.) OVER I-95
 BRIDGE #51 ON US 401 BUS. OVER NC 210 (MURCHISON RD.)
 BRIDGE #84 ON US 401 BUS. OVER CUMBERLAND ST.
 BRIDGE #104 ON NC 24 (BRAGG BLVD.) OVER US 401 BUS.
 BRIDGE #112 ON US 401 BUS. OVER HILLSBORO ST.
 BRIDGE #126 ON NC 24 /NC 210 (GROVE ST.) OVER CAPE FEAR RIVER
 BRIDGE #135 ON NC 24 EBL OVER I-95
 BRIDGE #136 ON NC 24 WBL OVER I-95
 BRIDGE #138 ON NC 24 EBL CONN. OVER I-95
 BRIDGE #139 ON NC 24 WBL CONN. OVER I-95
 BRIDGE #218 ON SR 1404 (HAY ST.) OVER US 401 BUS.

HARNETT COUNTY:
 BRIDGE #52 ON NC 217 OVER CAPE FEAR RIVER

TYPE OF WORK: BRIDGE PRESERVATION - CLEANING & PAINTING OF EXISTING BRIDGE STRUCTURES



DESIGN DATA	
HARNETT	CUMBERLAND
#52 ADT 2011 = 4800	#5 ADT 2011 = 16000
	#6 ADT 2004 = 51000
	#30 ADT 2011 = 16500
	#34 ADT 2011 = 12000
	#51 ADT 2009 = 20000
	#84 ADT 2009 = 20000
	#104 ADT 2010 = 21000
	#112 ADT 2010 = 22000
	#126 ADT 2010 = 22000
	#135 ADT 2008 = 6500
	#136 ADT 2010 = 6500
	#138 ADT 2010 = 6500
	#139 ADT 2010 = 6500
	#218 ADT 2010 = 25000

PROJECT LENGTH	
HARNETT	CUMBERLAND
BRIDGE #52 = .13 MILES	BRIDGE #5 = .05 MILES
	BRIDGE #6 = .04 MILES
	BRIDGE #30 = .08 MILES
	BRIDGE #34 = .06 MILES
	BRIDGE #51 = .03 MILES
	BRIDGE #84 = .03 MILES
	BRIDGE #104 = .03 MILES
	BRIDGE #112 = .03 MILES
	BRIDGE #126 = .12 MILES
	BRIDGE #135 = .08 MILES
	BRIDGE #136 = .08 MILES
	BRIDGE #138 = .08 MILES
	BRIDGE #139 = .08 MILES
	BRIDGE #218 = .03 MILES

Prepared in the Office of:
STRUCTURES MANAGEMENT UNIT
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2012 STANDARD SPECIFICATIONS

LETTING DATE:
 JUNE 18, 2013

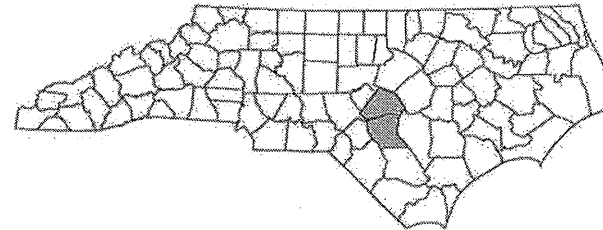
RICK NELSON, PE
 PROJECT ENGINEER

FARZIN ASEFNIA P.E.
 PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

**CUMBERLAND AND HARNETT COUNTIES
DIVISION 6**



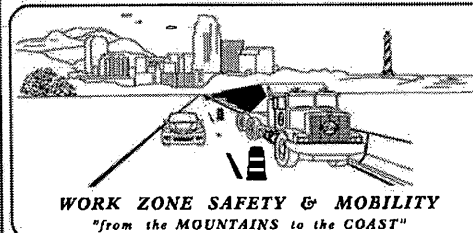
BRIDGE PAINTING

CUMBERLAND COUNTY

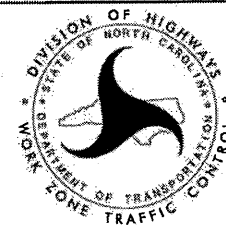
- BRIDGE #5 – NC 59 over I-95**
- BRIDGE #6 – SR 1007 over US 401 Business (Raeford Rd)**
- BRIDGE #30 – I-95 South over I-95 North Loop/SR 2284**
- BRIDGE #34 – NC 53/NC 210 over I-95**
- BRIDGE #51 – US 401 Business over NC 210**
- BRIDGE #84 – US 401 Business over Cumberland St**
- BRIDGE #104 – NC 24/NC 210/Grove St over US 401 Business**
- BRIDGE #112 – US 401 Business over Hillsboro St**
- BRIDGE #126 – NC 24 over Cape Fear River**
- BRIDGE #135 – NC 24 East over I-95**
- BRIDGE #136 – NC 24 West over I-95**
- BRIDGE #138 – NC 24 East Connector over I-95**
- BRIDGE #139 – NC 24 West Connector over I-95**
- BRIDGE #218 – SR 1404 (Hay St) over US 401 Business/NC 87**

HARNETT COUNTY

- BRIDGE #52 – NC 217 over Cape Fear River**



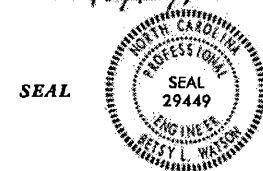
PLAN PREPARED FOR NCDOT BRIDGE MANAGEMENT UNIT
RALEIGH, NC



PLAN PREPARED BY:
Stantec Consulting Services Inc.
801 Jones Franklin Road-Suite 300
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Tel. 919.851.6866
Fax. 919.851.7024
www.stantec.com

BETSY L. WATSON, P.E. *TRAFFIC ENGINEER*
GEORGE KARAGEORGE *SR. TRANSPORTATION DESIGNER*

APPROVED: *Betsy L. Watson*
DATE: 12/19/12



INDEX OF SHEETS



















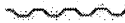









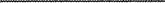






SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LEGEND AND LIST OF ROADWAY STANDARD DRAWINGS
TMP-2	GENERAL NOTES
TMP-3	PHASING
TMP-4	CUMBERLAND CO. BRIDGE #6 US 401 BUS/RAEFORD RD INSIDE LANES WORK AREA
TMP-4A	CUMBERLAND CO. BRIDGE #6 US 401 BUS/RAEFORD RD RIGHT LANE WORK AREA
TMP-5	CUMBERLAND CO. BRIDGE #34 I-95 NBL RIGHT LANE WORK AREA
TMP-6	CUMBERLAND CO. BRIDGE #51 NC 210 (MURCHISON BLVD) LEFT AND RIGHT LANE WORK AREAS
TMP-7	CUMBERLAND CO. BRIDGE #84 CUMBERLAND ST FLAGGING OPERATION
TMP-8	CUMBERLAND CO. BRIDGE #104 US 401 BUS NBL CENTER AND RIGHT LANE WORK AREAS
TMP-8A	CUMBERLAND CO. BRIDGE #104 US 401 BUS SBL LEFT AND RIGHT LANE WORK AREAS
TMP-9	CUMBERLAND CO. BRIDGE #126 NC 24/NC 210/GROVE ST RIGHT LANE WORK AREA
TMP-10	CUMBERLAND CO. BRIDGES #135, #136, #138, #139 I-95 NBL ENTRANCE RAMP RIGHT LANE WORK AREA
TMP-11, 11A	CUMBERLAND CO. BRIDGE #218 US 401 BUS LEFT AND RIGHT LANE WORK AREAS

TRAFFIC MANAGEMENT STRATEGY

BRIDGE PAINTING OPERATIONS WILL BE ACCOMPLISHED USING TIME RESTRICTED LANE CLOSURES. REFER TO SHEET TMP-3 FOR PHASING.

WBS 17BP.6.P.5

LEGEND

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  WORK AREA
-  PAVEMENT REMOVAL
-  NORTH ARROW
-  TYPE III BARRICADE
-  CONE
-  DRUM
-  SKINNY DRUM
-  TUBULAR MARKER
-  CHANGEABLE MESSAGE SIGN (CMS)
-  FLAGGER
-  AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)
-  FLASHING ARROW BOARD (TYPE C)
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  PORTABLE CONCRETE BARRIER (PCB)
-  TEMPORARY CRASH CUSHION
-  TEMPORARY SHORING
-  WORK ZONE SIGN-PORTABLE
-  WORK ZONE SIGN-STATIONARY
-  WORK ZONE SIGN-STATIONARY OR PORTABLE
- SIGNALS**
-  EXISTING
-  PROPOSED
-  TEMPORARY
- PAVEMENT MARKINGS**
-  EXISTING PAVEMENT MARKING (GRAY)
-  SKIP LINES
-  MINI-SKIP LINES
-  SOLID LINES
- PAVEMENT MARKING SYMBOLS**
-  PAVEMENT MARKING SYMBOLS
-  EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)
-  PAVEMENT MARKING ALPHANUMERIC CHARACTERS
- PAVEMENT MARKERS**
-  CRYSTAL / CRYSTAL
-  CRYSTAL / RED
-  YELLOW / YELLOW

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

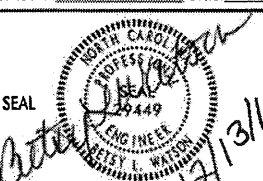

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION

12/13/2012 11:13:11 AM C:\Users\harnett\Documents\TrafficControl\WBS 17BP.6.P.5 Cumberland Harnett Printing\TCP\Plan Sheets\17BP.6.P.5-TC-TMP-01A-RDWAYSTDLEGEND.dgn



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Fax. (919) 851-7024
www.stantec.com
License No. F-0672

APPROVED: _____ DATE: _____

LEGEND
&
ROADWAY STANDARD DRAWINGS

GENERAL NOTES

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

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.

LANE CLOSURE TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW A LANE OF TRAFFIC DURING THE FOLLOWING TIME RESTRICTIONS:

ROAD NAME	COUNTY	BRIDGE NUMBER
I-95	CUMBERLAND	5
I-95	CUMBERLAND	34
I-95	CUMBERLAND	135/136/138/139
I-95	CUMBERLAND	30

DAY AND TIME RESTRICTIONS

6:00 A.M.-7:00 P.M. MONDAY THRU THURSDAY
6:00 A.M. FRIDAY - 7:00 P.M. SUNDAY

ROAD NAME	COUNTY	BRIDGE NUMBER
US 401 BUSINESS	CUMBERLAND	6
US 301	CUMBERLAND	30
US 401 BUSINESS	CUMBERLAND	104
US 401 BUSINESS	CUMBERLAND	218

DAY AND TIME RESTRICTIONS

6:00 A.M.-7:00 P.M. MONDAY THRU SUNDAY (EVERY DAY)

ROAD NAME	COUNTY	BRIDGE NUMBER
NC 210 (MURCHISON BLVD)	CUMBERLAND	51
NC 217	HARNETT	52
CUMBERLAND ST	CUMBERLAND	84
HILLSBORO ST	CUMBERLAND	112
NC 24/NC 210/GROVE ST	CUMBERLAND	126

DAY AND TIME RESTRICTIONS

6:00 A.M.-9:00 A.M. MONDAY THRU FRIDAY
4:00 P.M.-7:00 P.M. MONDAY THRU FRIDAY

B) DO NOT CLOSE OR NARROW A LANE OF TRAFFIC, DETAIN AND/OR ALTER THE TRAFFIC FLOW ON OR DURING HOLIDAYS, HOLIDAY WEEKENDS, OR ANY OTHER TIME WHEN TRAFFIC IS UNUSUALLY HEAVY, INCLUDING THE FOLLOWING SCHEDULES:

ROAD NAME

ALL ROADS

HOLIDAY & HOLIDAY WEEKEND LANE CLOSURE TIME RESTRICTIONS

- 1) FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2) FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- 3) FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 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 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- 6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
 - 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
 - 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- C) DO NOT CLOSE OR NARROW TRAVEL LANES DURING SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

I-95

- 1) FOR THE BIKE WEEK SPECIAL EVENTS AT MYRTLE BEACH AND DAYTONA 500, BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE THE EVENT AND 7:00 P.M. THE TUESDAY AFTER THE EVENT.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) LANE CLOSURES ARE REQUIRED WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN ANY PORTION OF A TRAVEL LANE. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) INSTALL ALL LANE CLOSURES ACCORDING TO THE PLANS, ROADWAY STANDARD DRAWINGS (1101.02), OR AS DIRECTED BY THE ENGINEER.
- 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. COVER OR LAY DOWN SIGNS, AND TURN OFF ARROW BOARDS AND MESSAGE SIGNS.
- G) INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- H) 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.
- I) 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 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- J) 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 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- K) UNLESS OTHERWISE SHOWN IN THE PLANS, PLACE ARROW BOARDS ON THE ROADWAY SHOULDER. IF SHOULDERS DO NOT EXIST, PLACE ARROW BOARDS WITHIN THE MERGE TAPER BEHIND THE CHANNELIZING DEVICES OF THE LANE CLOSURE. IF NEEDED, EXTEND LANE CLOSURES TO PROVIDE STOPPING SIGHT DISTANCE TO THE ARROW BOARD (REFER TO ROADWAY STANDARD DRAWING 1101.11 SHEET 2).

- L) PLACE LANE CLOSURE DRUMS IN TAPERS AT A MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT (MPH). ALONG BUFFER SPACES AND WORK AREAS SPACE DRUMS AT A MAXIMUM SPACING EQUAL IN FEET TO TWICE THE POSTED SPEED LIMIT (MPH). IN ALL CASES, CHANNELIZING DEVICES ARE TO BE SPACED IN SUCH A MANNER AS TO POSITIVELY ACHIEVE THE INTENDED VISUAL CHANNELIZATION. CHANNELIZING DEVICES SHOULD BE LATERALLY OFFSET 3 FT INSIDE THE CLOSED LANE AS ROOM PERMITS.
- M) WHENEVER TAPERS ARE TO BE USED IN CLOSE PROXIMITY TO AN INTERCHANGE RAMP, CROSSROADS, CURVES, OR OTHER INFLUENCING FACTORS, THE LENGTH OF STANDARD TAPERS MAY BE ADJUSTED.


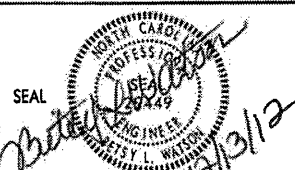

MISCELLANEOUS

- N) USE LAW ENFORCEMENT TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS SHOWN IN THE PLAN OR AS DIRECTED BY THE ENGINEER. LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE AND MAY BE REVISED AS THE OFFICER OR THE ENGINEER DEEM NECESSARY.
- O) ALL DIMENSIONS AND STATIONS IN THE TRAFFIC MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- P) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.
- Q) CHANGEABLE MESSAGE SIGN MESSAGES SHOWN ARE EXAMPLES. OTHER MESSAGES MAY BE USED AS CONDITIONS WARRANT. ALL MESSAGES AND LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO INCORPORATING.
- R) DO NOT PERFORM WORK FROM THE ROADWAY ON TOP OF ANY BRIDGE, EXCEPT CUMBERLAND 126 AND HARNETT 52, UNLESS SPECIFICALLY ALLOWED IN THE PLAN OR BY THE ENGINEER.

TRAFFIC SIGNALS

- S) IF TRAFFIC SIGNALS ARE TO BE PLACED IN FLASH MODE COORDINATE WITH LAW ENFORCEMENT AND CONTACT FAYETTEVILLE TRAFFIC SERVICES AT 910-433-1660 IN ADVANCE.

12/13/2012 J:\TrafficControl\WBS 17BP.6.P.5 Cumberland Harnett Painting\TDP\Plan Sheets\17BP.6.P.5.TC.TMP.02 - GENERAL NOTES.dgn

 <p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672</p>	<p>APPROVED: _____ DATE: _____</p> <p style="text-align: center;">SEAL</p> 		<h2 style="font-size: 24px; margin: 0;">GENERAL NOTES</h2>
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PHASING

USE THE FOLLOWING TRAFFIC CONTROL METHODS DURING BRIDGE PAINTING:

CUMBERLAND COUNTY

BRIDGE #5 - NC 59 OVER I-95 (PAINT BEAM ENDS)
USE LEFT AND RIGHT LANE CLOSURES ON I-95 PER ROADWAY STANDARD DRAWING 1101.02 SHEET 4. FOR LANE CLOSURE SWITCH ON I-95, SEE ROADWAY STANDARD DRAWING 1101.02 SHEET 5.

BRIDGE #6 - SR 1007 OVER US 401 BUSINESS (RAEFORD RD) (PAINT STR. STEEL)
USE LANE CLOSURES PER SHEETS TMP-4 AND TMP-4A.

BRIDGE #30 - I-95 SOUTH OVER I-95 NORTH LOOP/SR 2284 (PAINT BEAM ENDS)
USE LEFT AND RIGHT LANE CLOSURES ON I-95 BYPASS PER ROADWAY STANDARD DRAWING 1101.02 SHEET 3. FOR LANE CLOSURE SWITCH ON I-95 BYPASS, SEE ROADWAY STANDARD DRAWING 1101.02 SHEET 5.

USE FLAGGING OPERATION ON US 301 SERVICE ROAD PER ROADWAY STANDARD DRAWING 1101.02 SHEET 1.

BRIDGE #34 - NC 53/NC 210 OVER I-95 (PAINT BEAM ENDS)
USE RIGHT LANE CLOSURE WITH SWITCH ON I-95 NBL PER SHEET TMP-5.

USE LEFT AND RIGHT LANE CLOSURES ON I-95 PER ROADWAY STANDARD DRAWING 1101.02 SHEET 4. FOR LANE CLOSURE SWITCH ON I-95 SBL, SEE ROADWAY STANDARD DRAWING 1101.02 SHEET 5.

BRIDGE #51 - US 401 BUSINESS OVER NC 210 (PAINT STR. STEEL)
USE LANE CLOSURES PER SHEET TMP-6.

BRIDGE #84 - US 401 BUSINESS OVER CUMBERLAND ST (PAINT STR. STEEL)
USE LANE CLOSURES PER SHEET TMP-7.

BRIDGE #104 - NC 24 OVER US 401 BUSINESS (PAINT STR. STEEL)
USE RIGHT LANE CLOSURE ON US 401 BUS NBL PER SHEET TMP-8. USE LEFT LANE CLOSURE ON US 401 BUS NBL PER ROADWAY STANDARD DRAWING 1101.02 SHEET 4.

USE LANE CLOSURES ON US 401 BUS SBL PER SHEET TMP-8A.

BRIDGE #112 - US 401 BUSINESS OVER HILLSBORO ST (PAINT STR. STEEL)
USE FLAGGING OPERATION ON HILLSBORO STREET PER ROADWAY STANDARD DRAWING 1101.02 SHEET 1.

BRIDGE #126 - NC 24 OVER CAPE FEAR RIVER (PAINT STR. STEEL)
USE RIGHT LANE CLOSURE PER SHEET TMP-9.

BRIDGES #135, 136, 138 AND 139 - NC 24 EAST OVER I-95 (PAINT BEAM ENDS)
I-95 NB AND I-95 SB, IF NEEDED: USE LEFT LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02 SHEET 4.

I-95 NB COLLECTOR/DISTRIBUTOR: USE RIGHT LANE CLOSURE PER SHEET TMP-10.


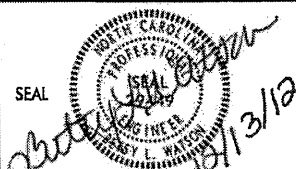
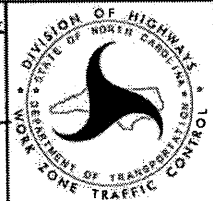
I-95 SB COLLECTOR/DISTRIBUTOR: USE RIGHT LANE CLOSURE PER SHEET TMP-10.

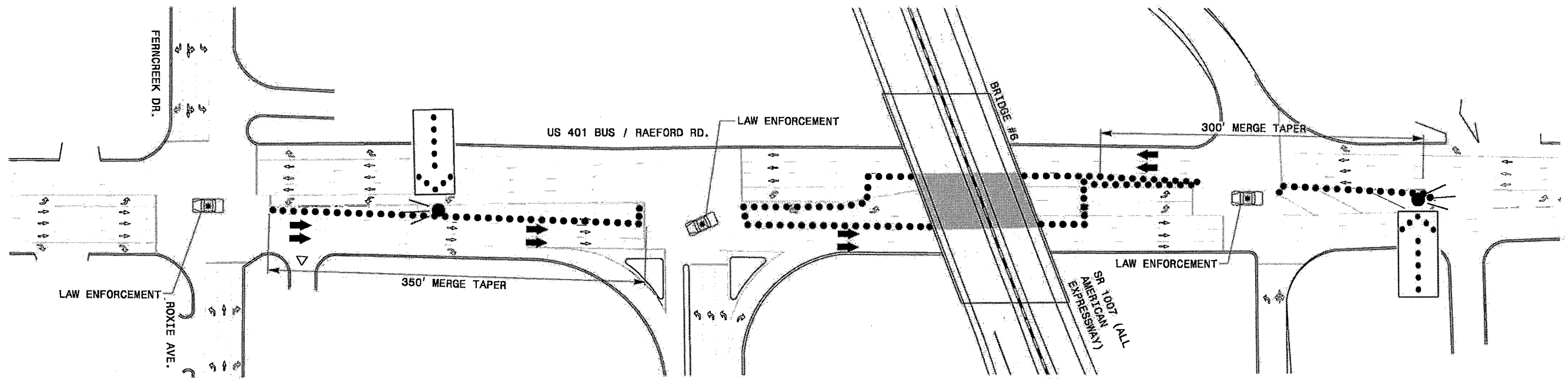
BRIDGE #218 - SR 1404 (HAY ST) OVER US 401 BUSINESS/NC 87 (PAINT STR. STEEL)
USE LANE CLOSURES PER SHEET TMP-11 AND TMP-11A.

HARNETT COUNTY

BRIDGE #52 - NC 217 OVER CAPE FEAR RIVER (PAINT STR. STEEL)
USE FLAGGING OPERATION ON NC 217 PER ROADWAY STANDARD DRAWING 1101.02 SHEET 1.

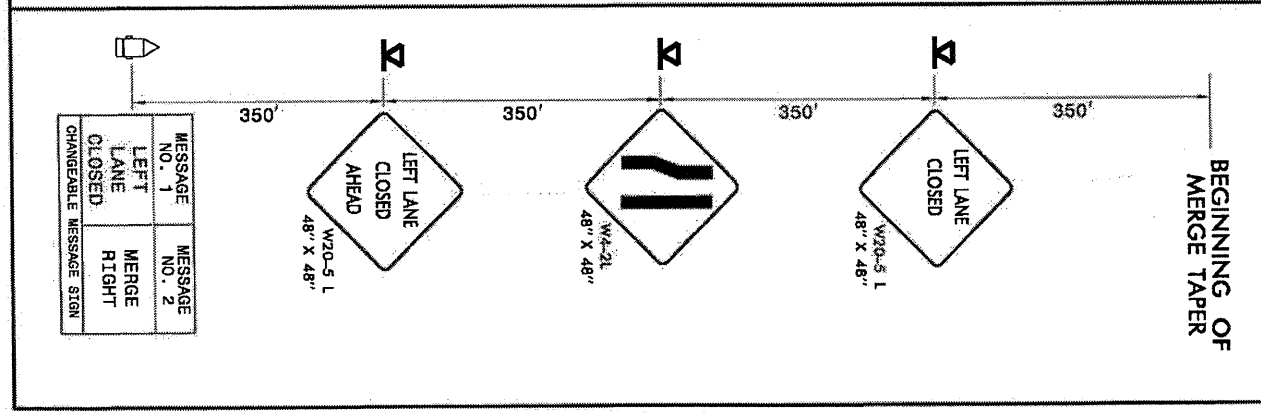
2/13/2012
J:\TrafficControl\WBS 17BP.6.P.5 Cumberland Harnett Painting\TCP\Plan Sheets\17BP.6.P.5.TC.TMP.03.PHASING.dgn
rcullen

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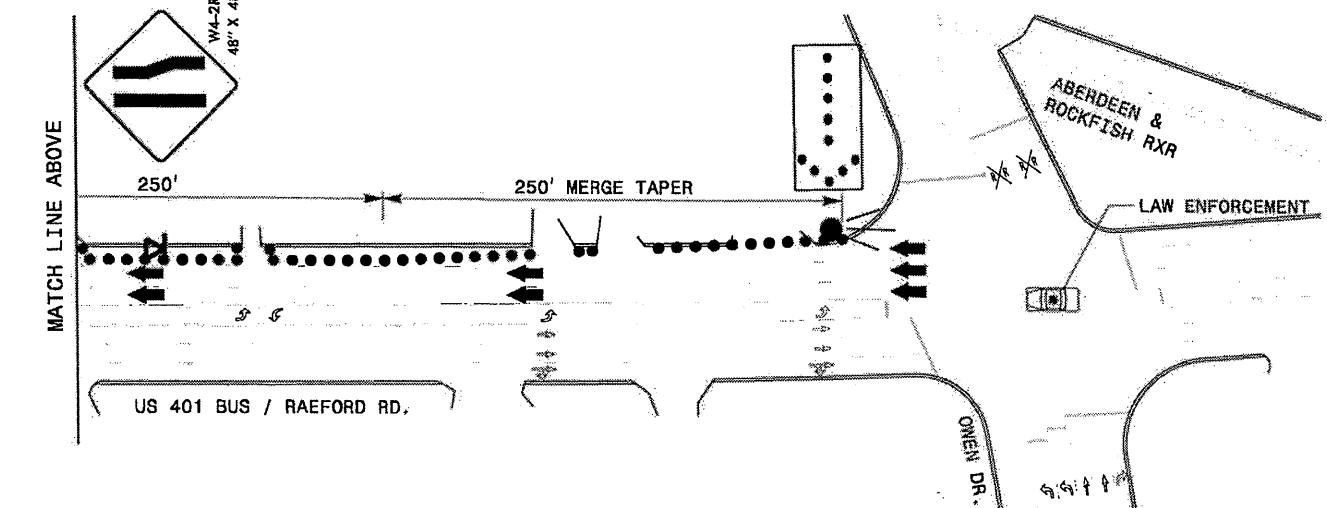
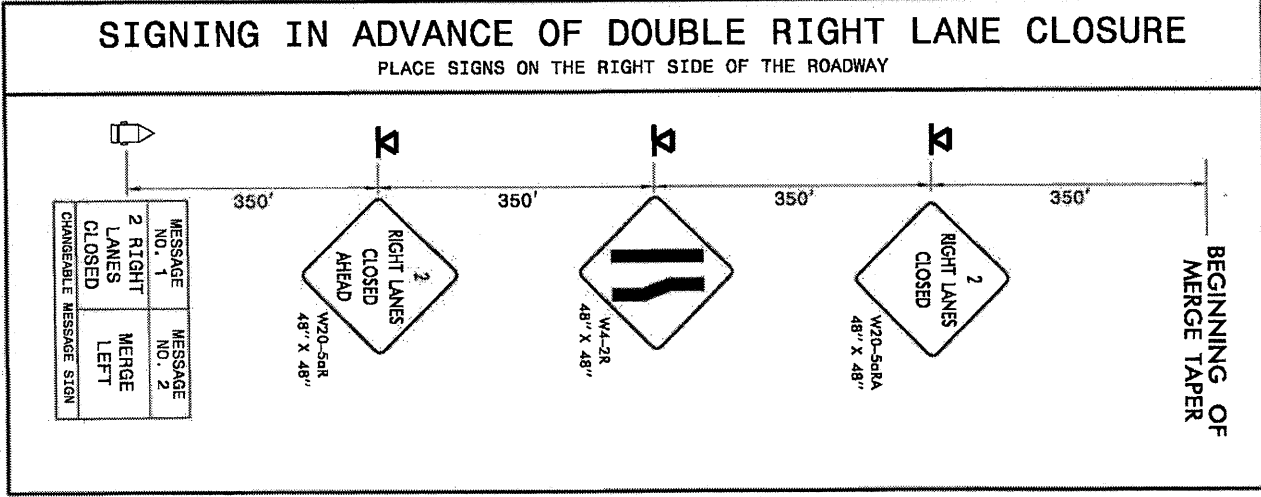
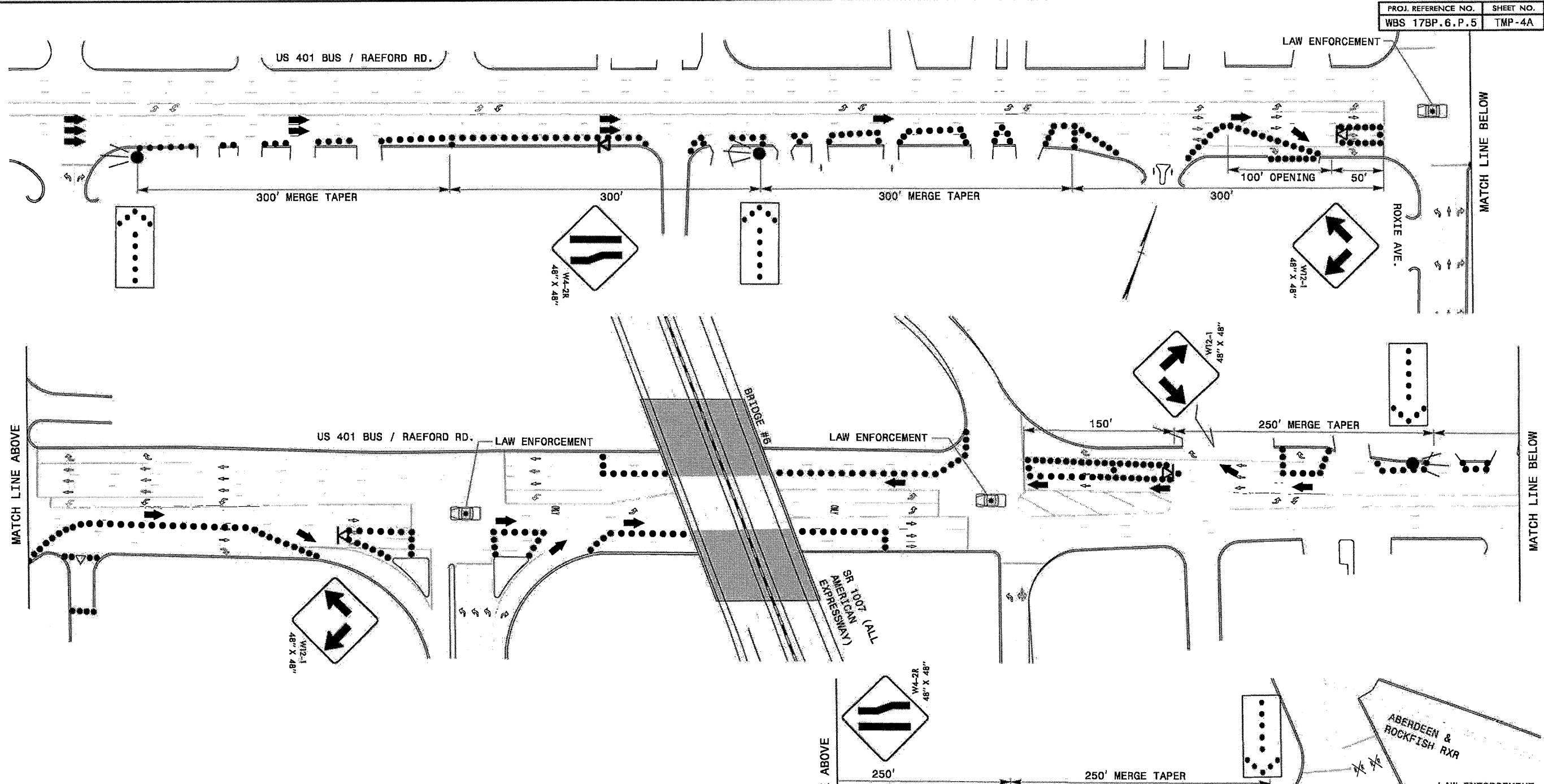
SIGNING IN ADVANCE OF LEFT LANE CLOSURE

PLACE SIGNS ON THE RIGHT SIDE OF THE ROADWAY



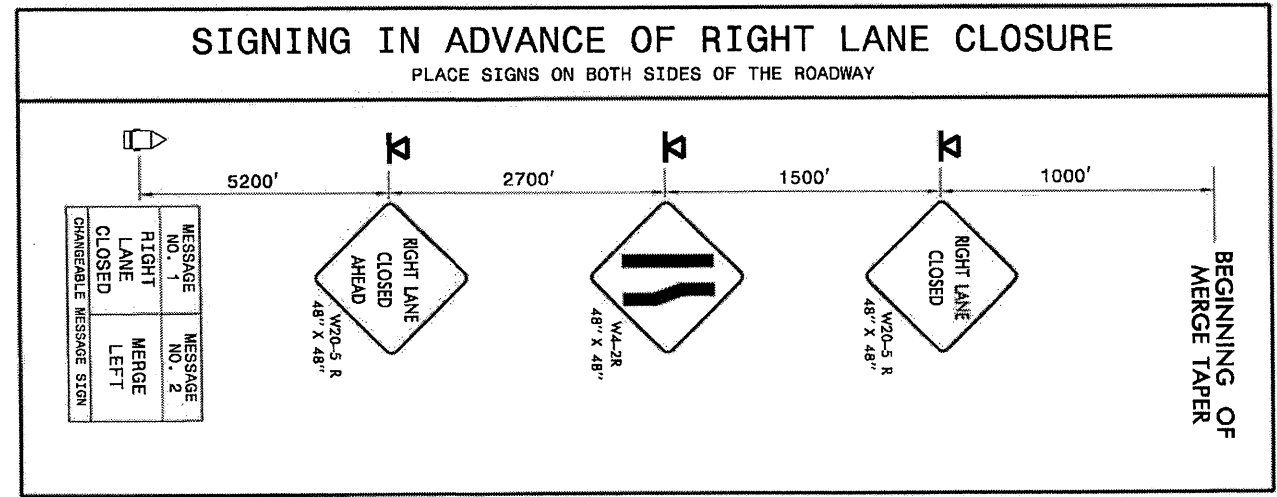
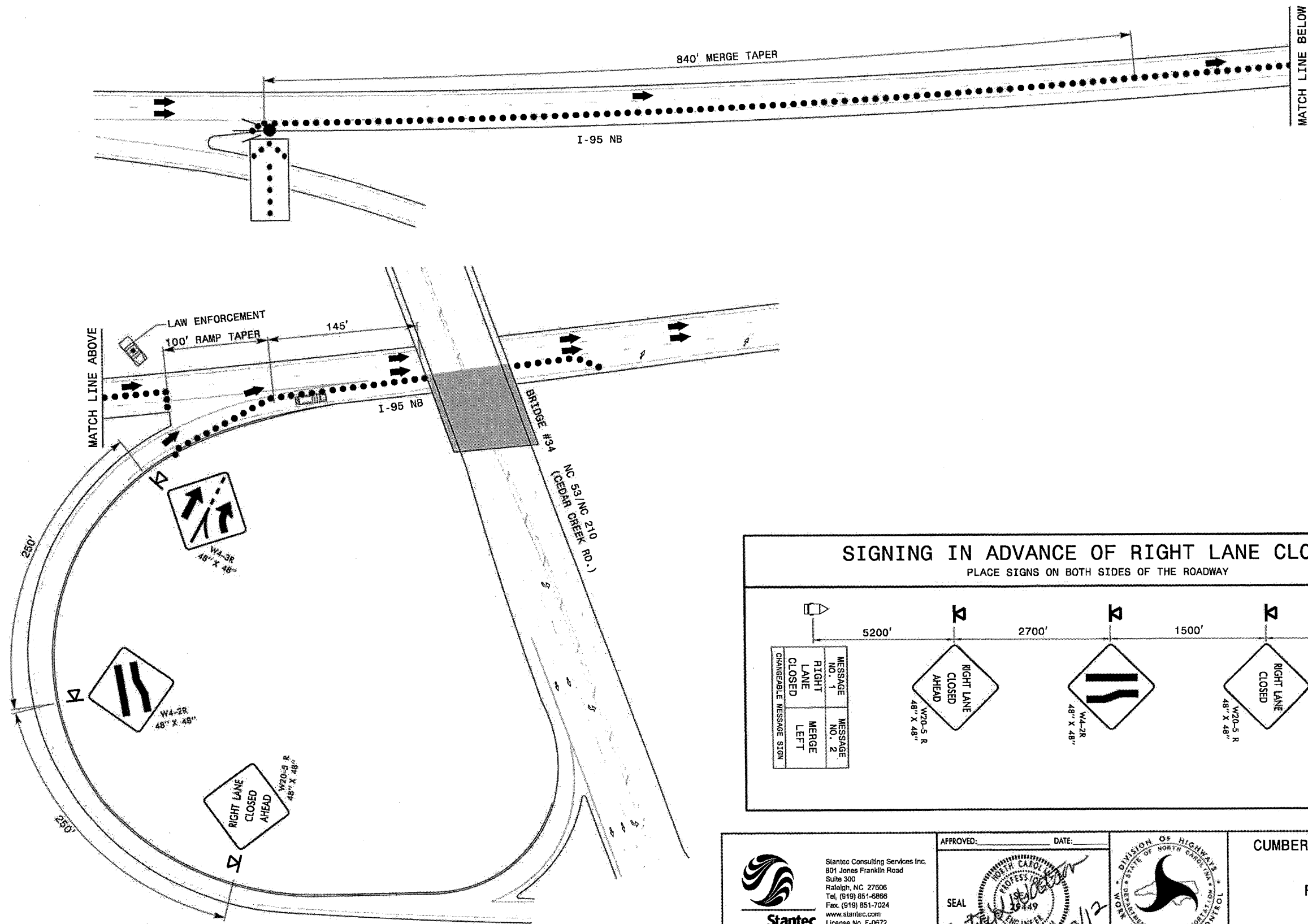
12/13/2012
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 P:\Bullard

<p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6966 Fax. (919) 851-7024 www.stantec.com License No. F-0672</p>	APPROVED: _____ DATE: _____ 		CUMBERLAND BRIDGE #6 US 401 BUS / RAEFORD RD. INSIDE LANES WORK AREA
	SEAL 		



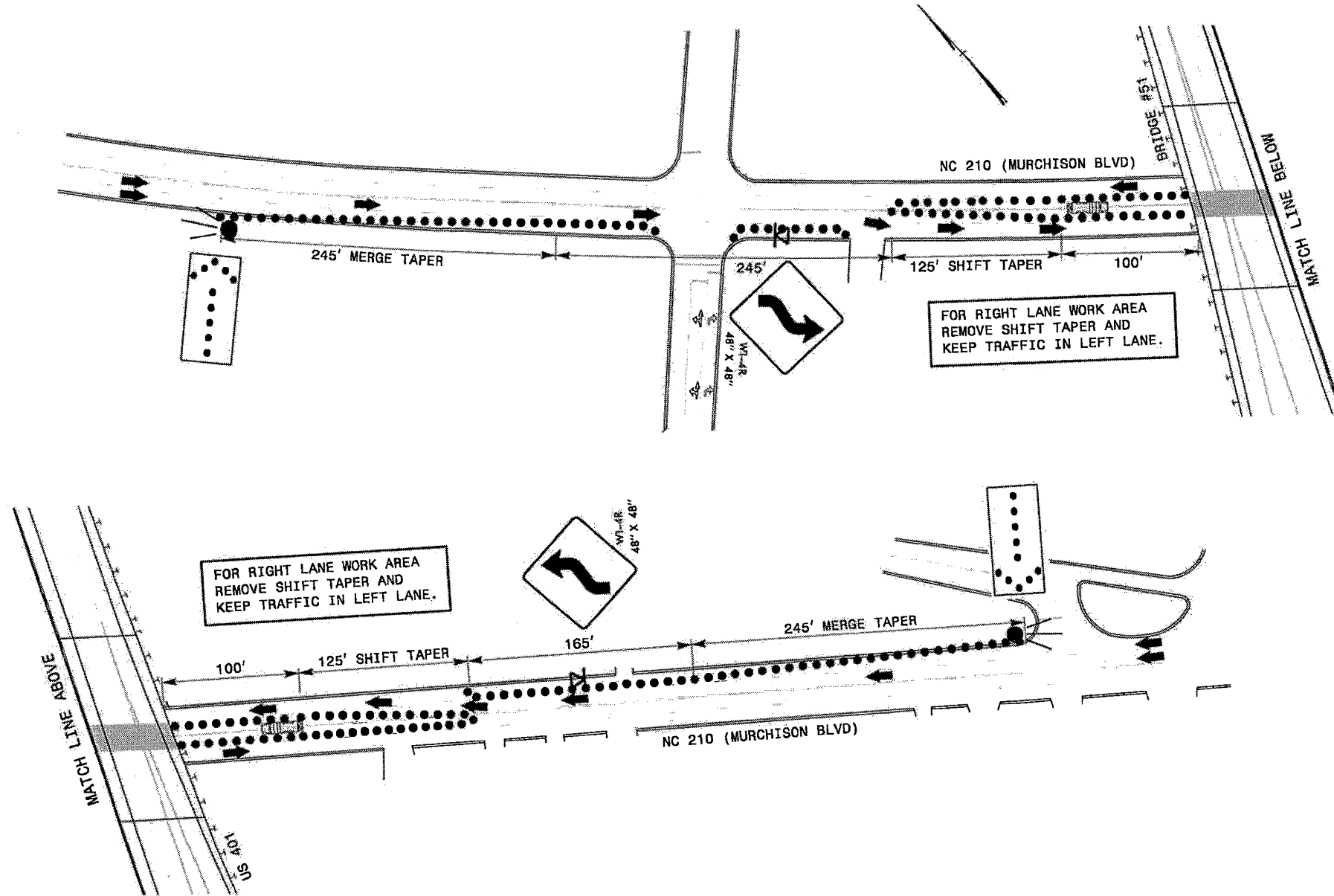
<p>Stantec</p>	Stantec Consulting Services Inc. 601 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-9872	APPROVED: _____ DATE: _____ 	<p>CUMBERLAND BRIDGE #6 US 401 BUS / RAEFORD RD. RIGHT LANE WORK AREA</p>
	1/13/12		

08/11/2012
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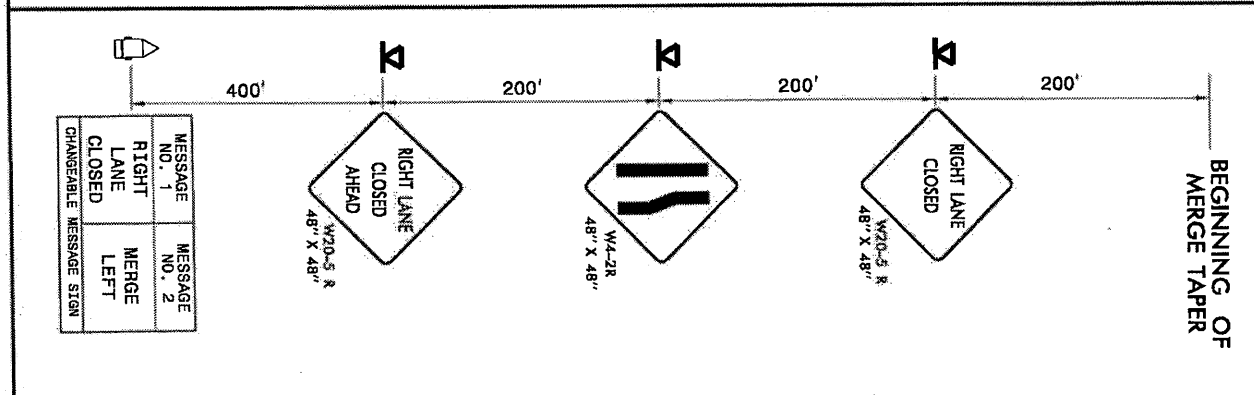
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 rcaulien

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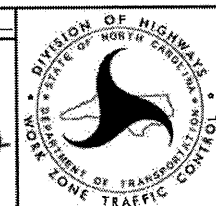
SIGNING IN ADVANCE OF RIGHT LANE CLOSURE

PLACE SIGNS ON THE RIGHT SIDE OF THE ROADWAY

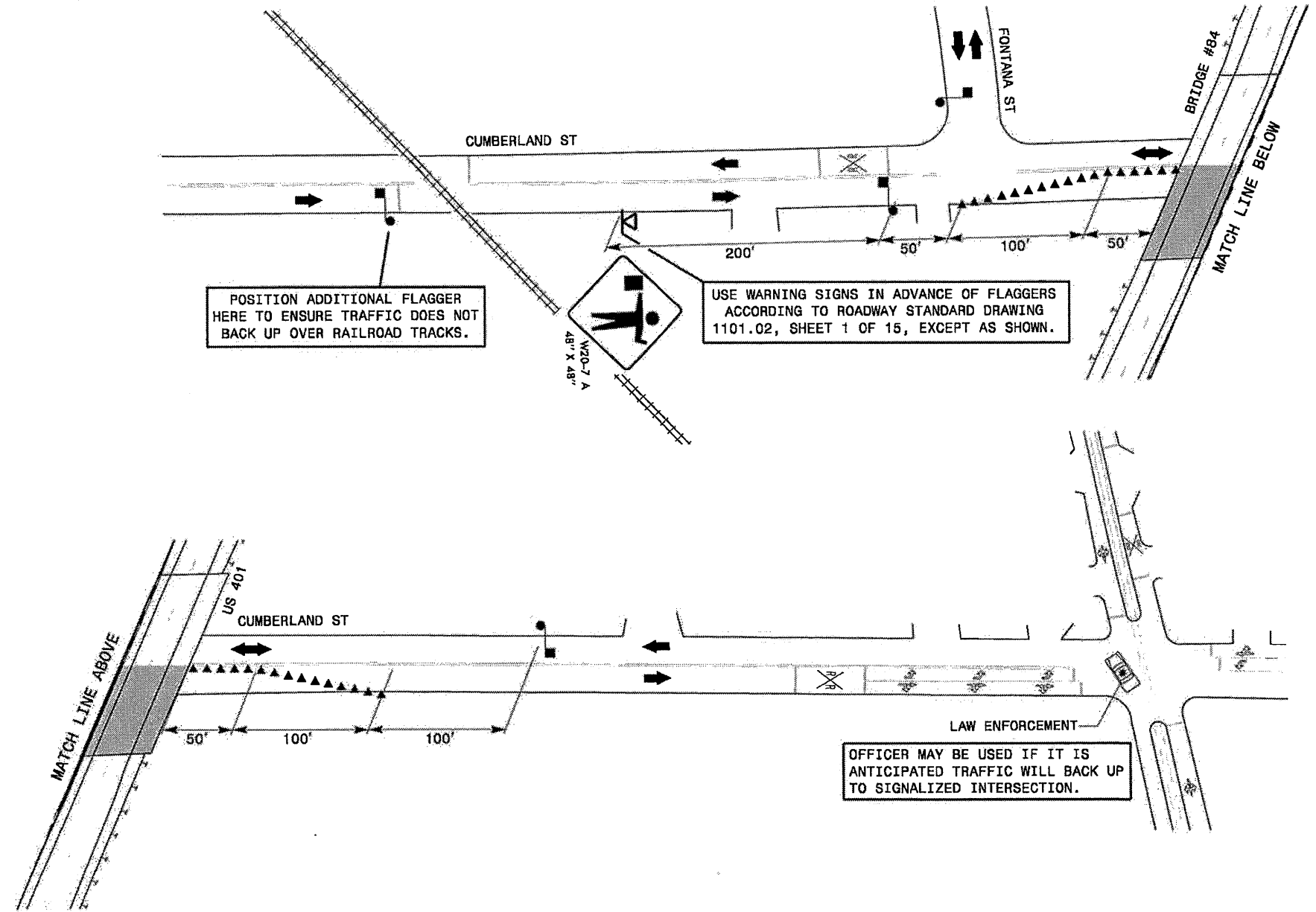


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 License No. F-0672

APPROVED: _____ DATE: _____
 SEAL: _____
 PROFESSIONAL ENGINEER
 L. WATSON
 29449
 12/13/12



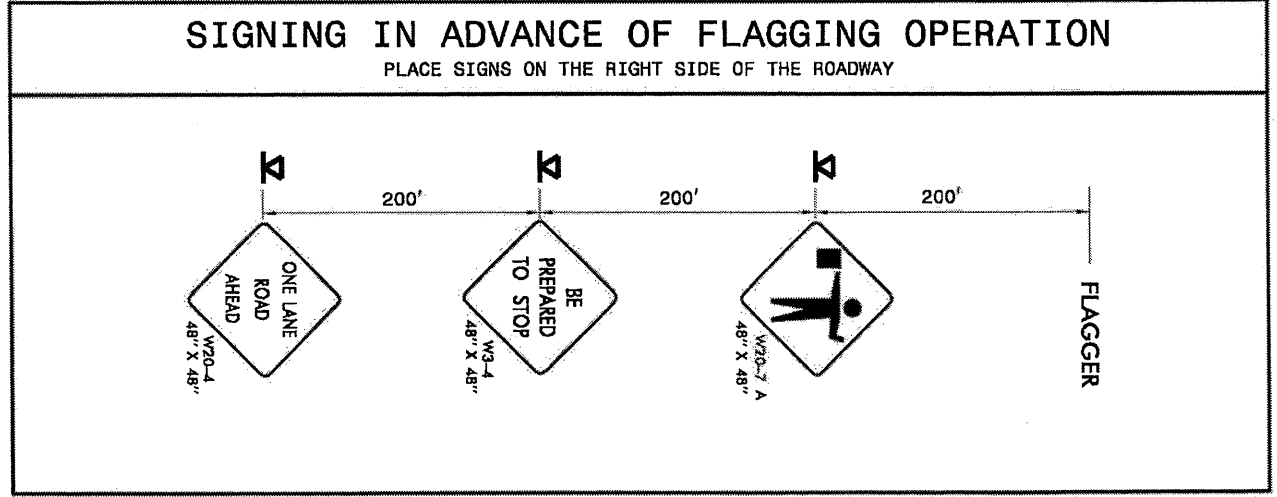
CUMBERLAND BRIDGE #51
 NC 210 (MURCHISON BLVD.)
 LEFT AND RIGHT LANE
 WORK AREAS



POSITION ADDITIONAL FLAGGER HERE TO ENSURE TRAFFIC DOES NOT BACK UP OVER RAILROAD TRACKS.

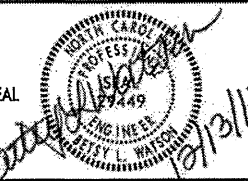
USE WARNING SIGNS IN ADVANCE OF FLAGGERS ACCORDING TO ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 15, EXCEPT AS SHOWN.


OFFICER MAY BE USED IF IT IS ANTICIPATED TRAFFIC WILL BACK UP TO SIGNALIZED INTERSECTION.



12/13/2018
 C:\Users\jgullian\Documents\TrafficControl\WBS 17BP.6.P.5 Cumberland_Hornett\Printing\TCP\Plan Sheets\17BP.6.P.5_TC_TMP_07_CUMBERLAND_84.dgn
 jgullian


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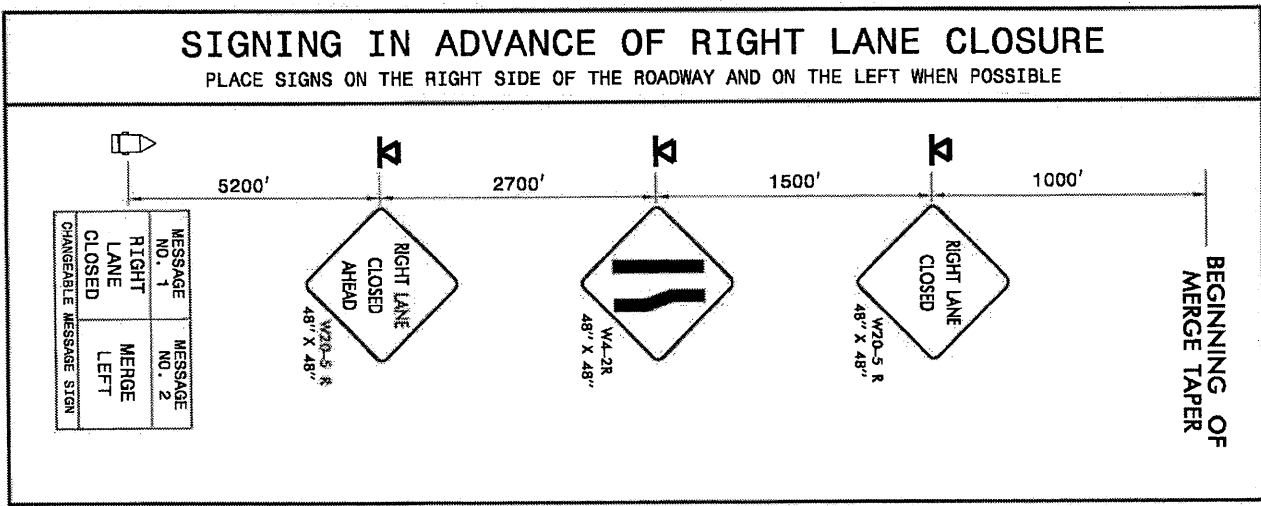
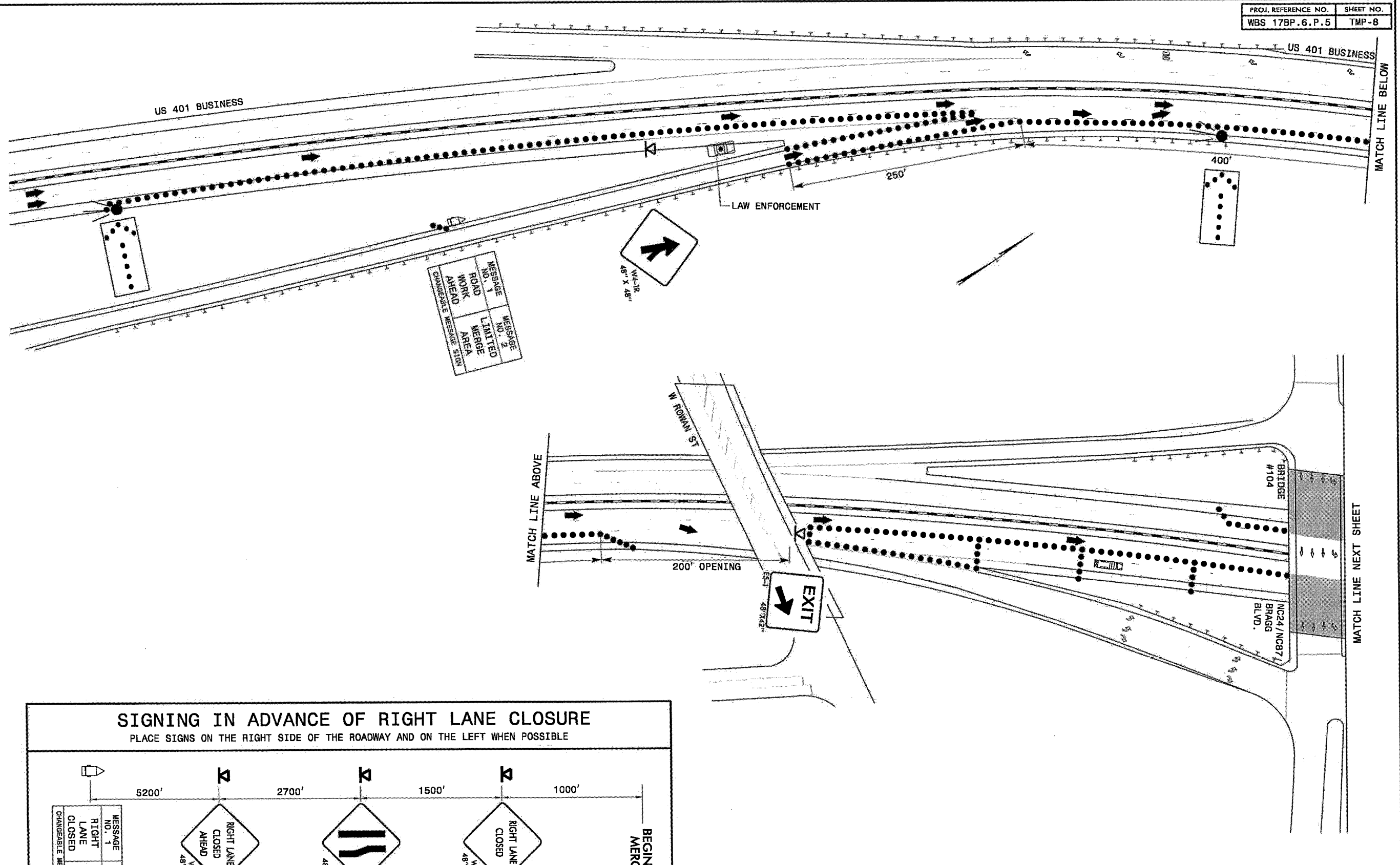
APPROVED: _____ DATE: _____




CUMBERLAND BRIDGE #84

CUMBERLAND ST
FLAGGING OPERATION

I:\Traffic\TrafficControl\WBS 17BP.6.P.5 Cumberlandand Harnett\Printing\TCP\Plan Sheets\17BP.6.P.5.TC.TMP.08_CUMBERLAND_104.dgn

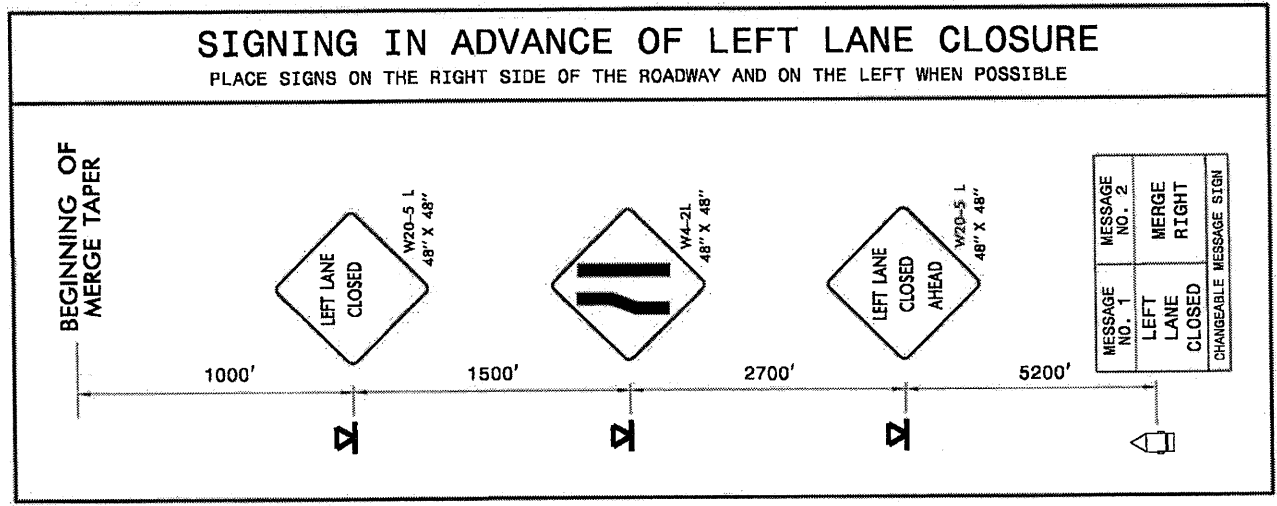
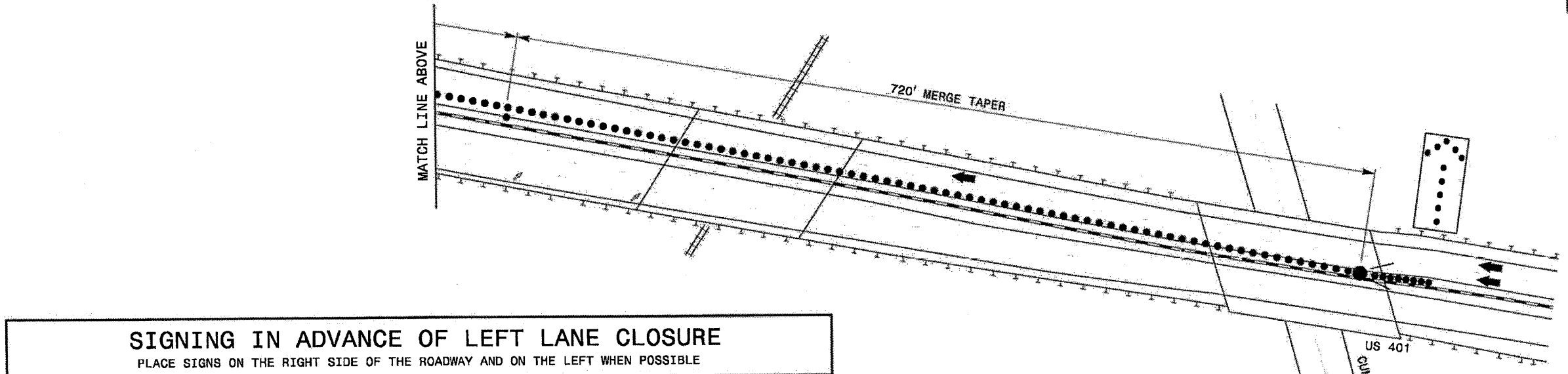
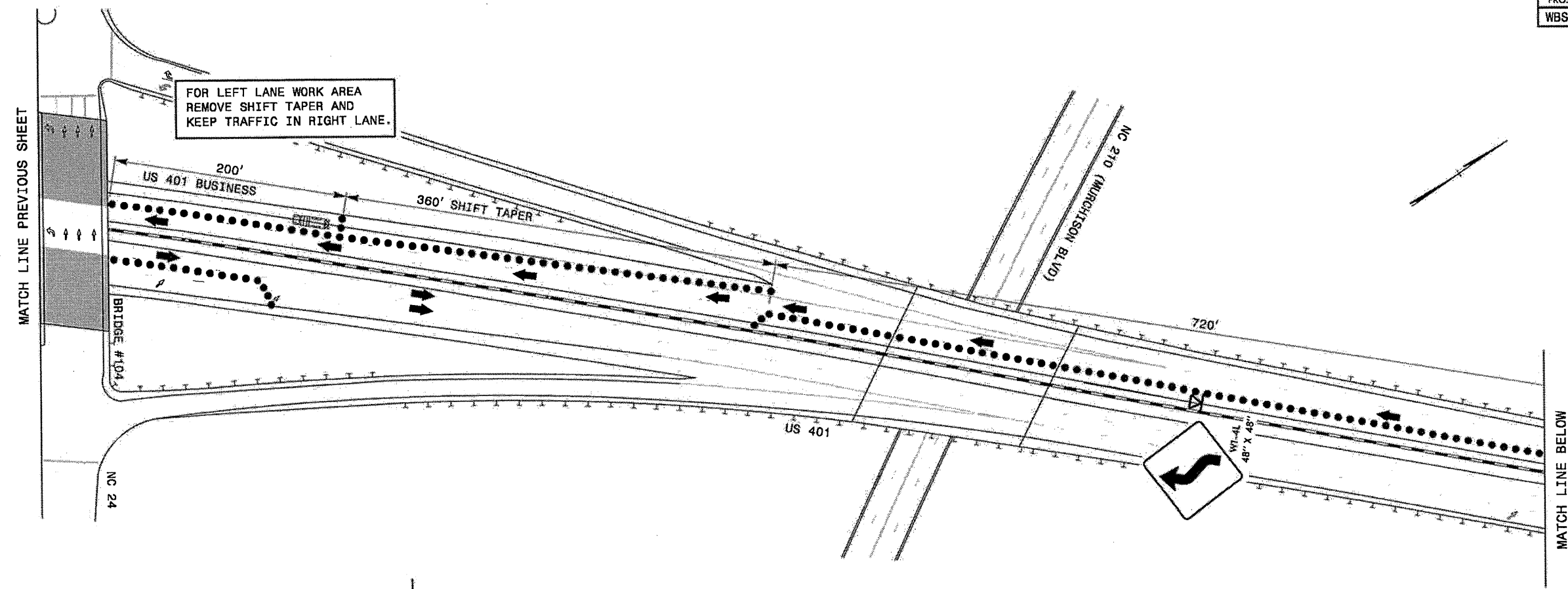


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APPROVED: _____ DATE: _____

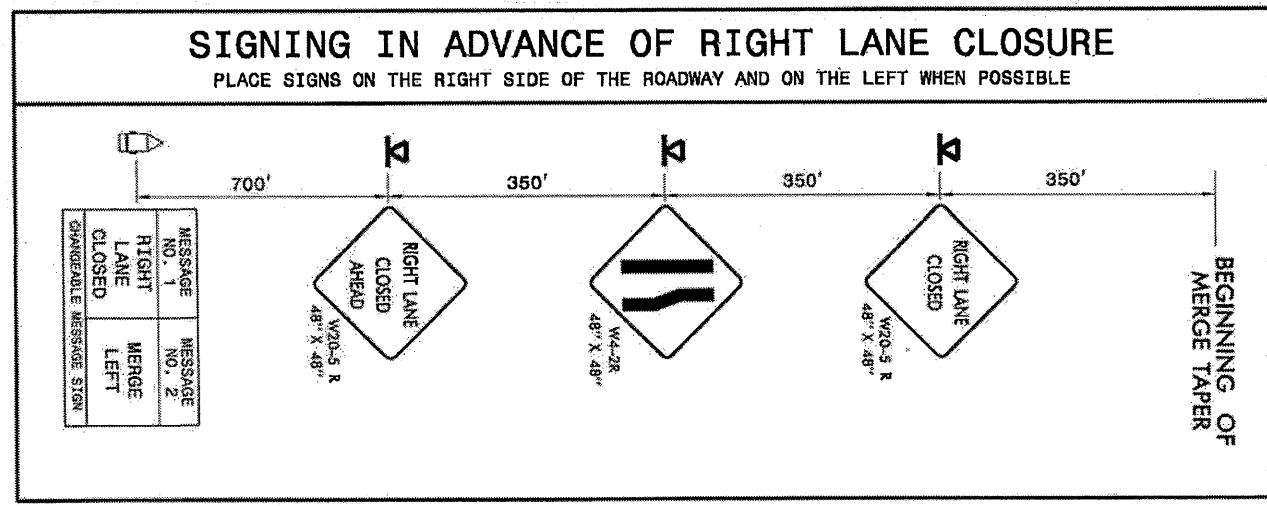
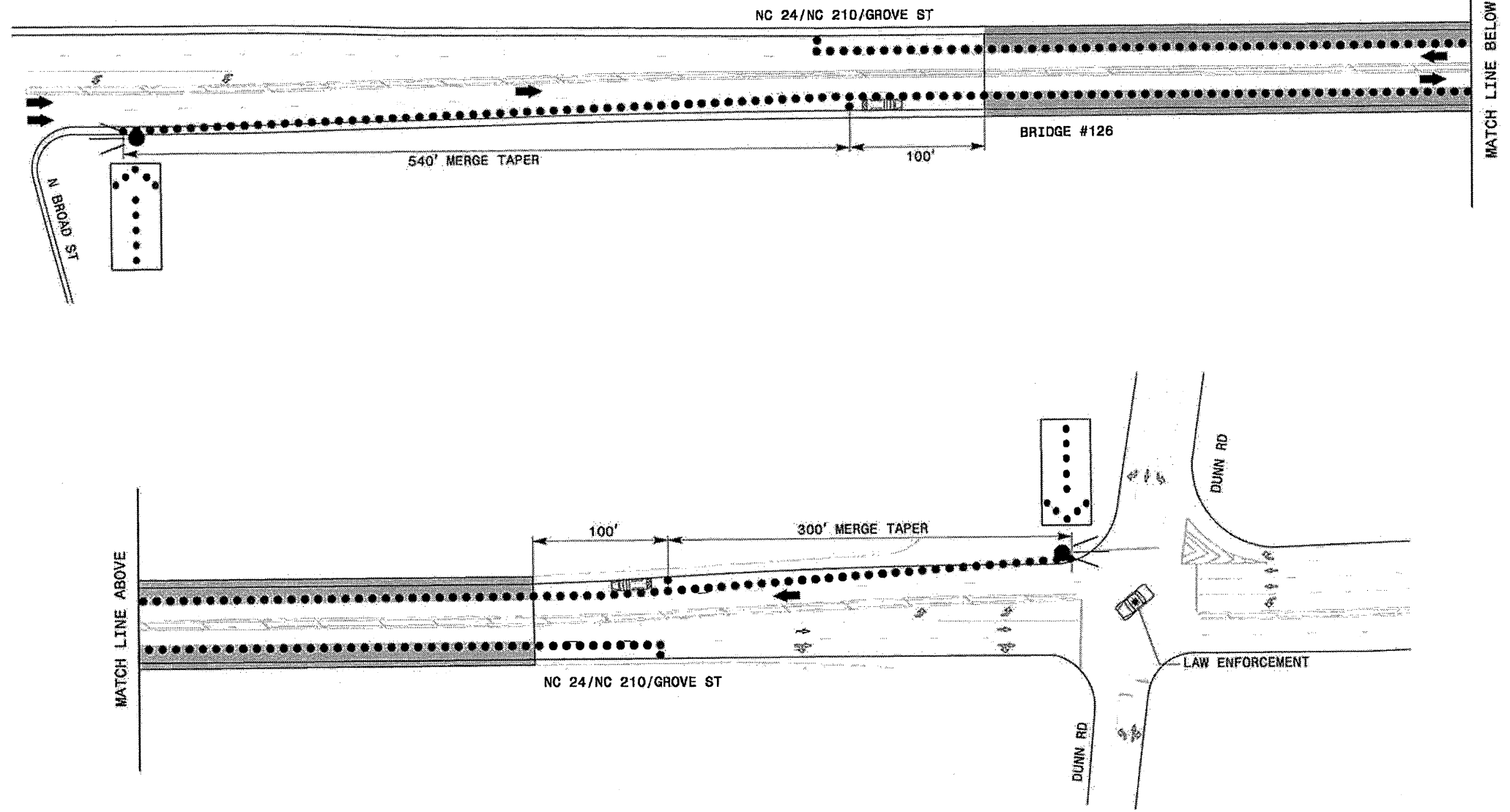
SEAL

CUMBERLAND BRIDGE #104
 US 401 BUSINESS NBL
 CENTER AND RIGHT LANE
 WORK AREAS



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	SEAL			

12/13/2012
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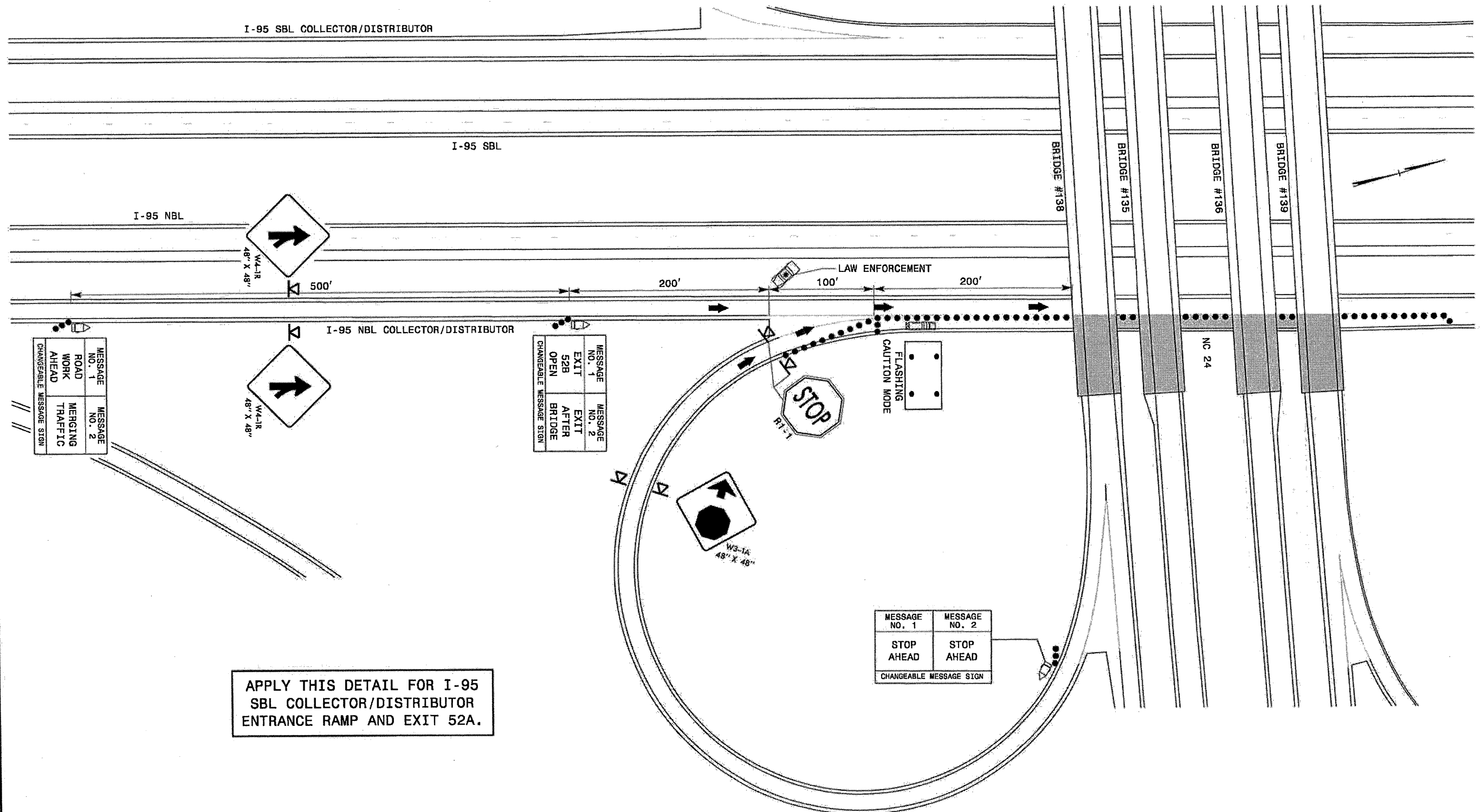


12/13/2012
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 r.bullien

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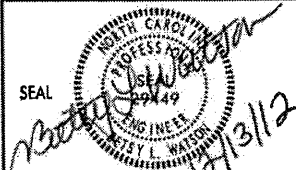

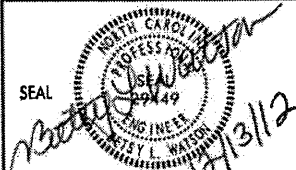
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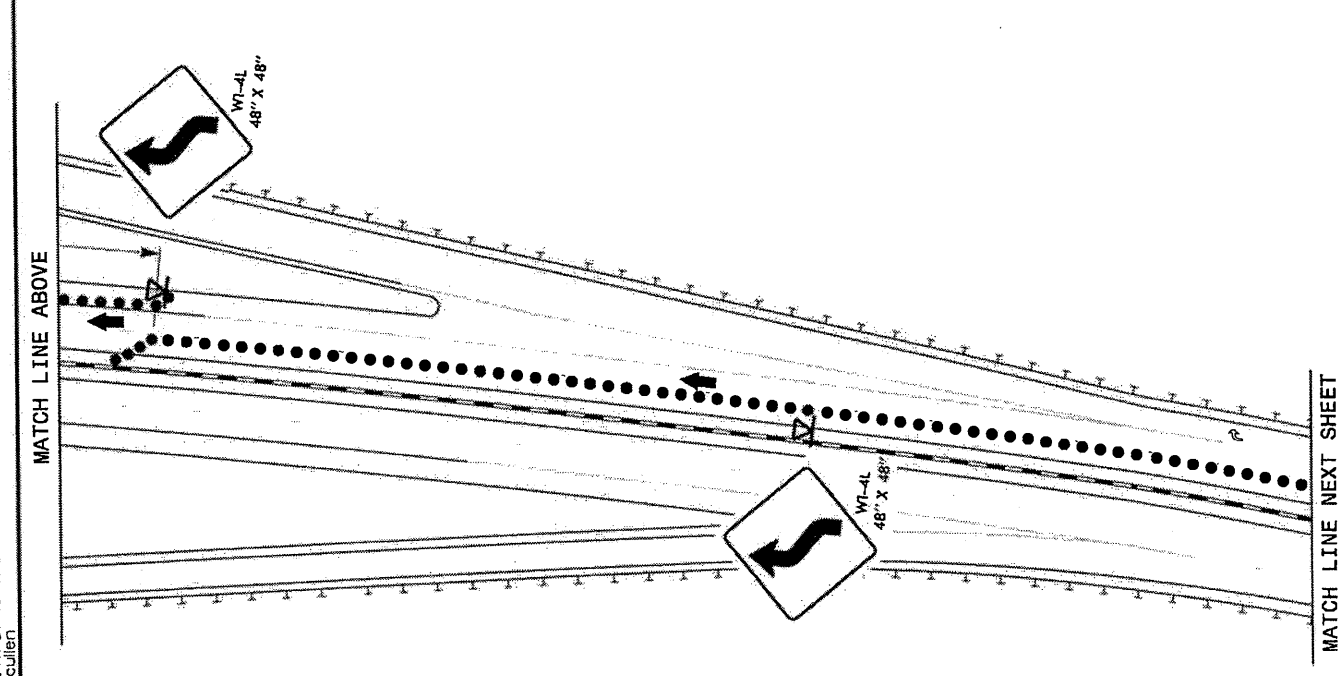
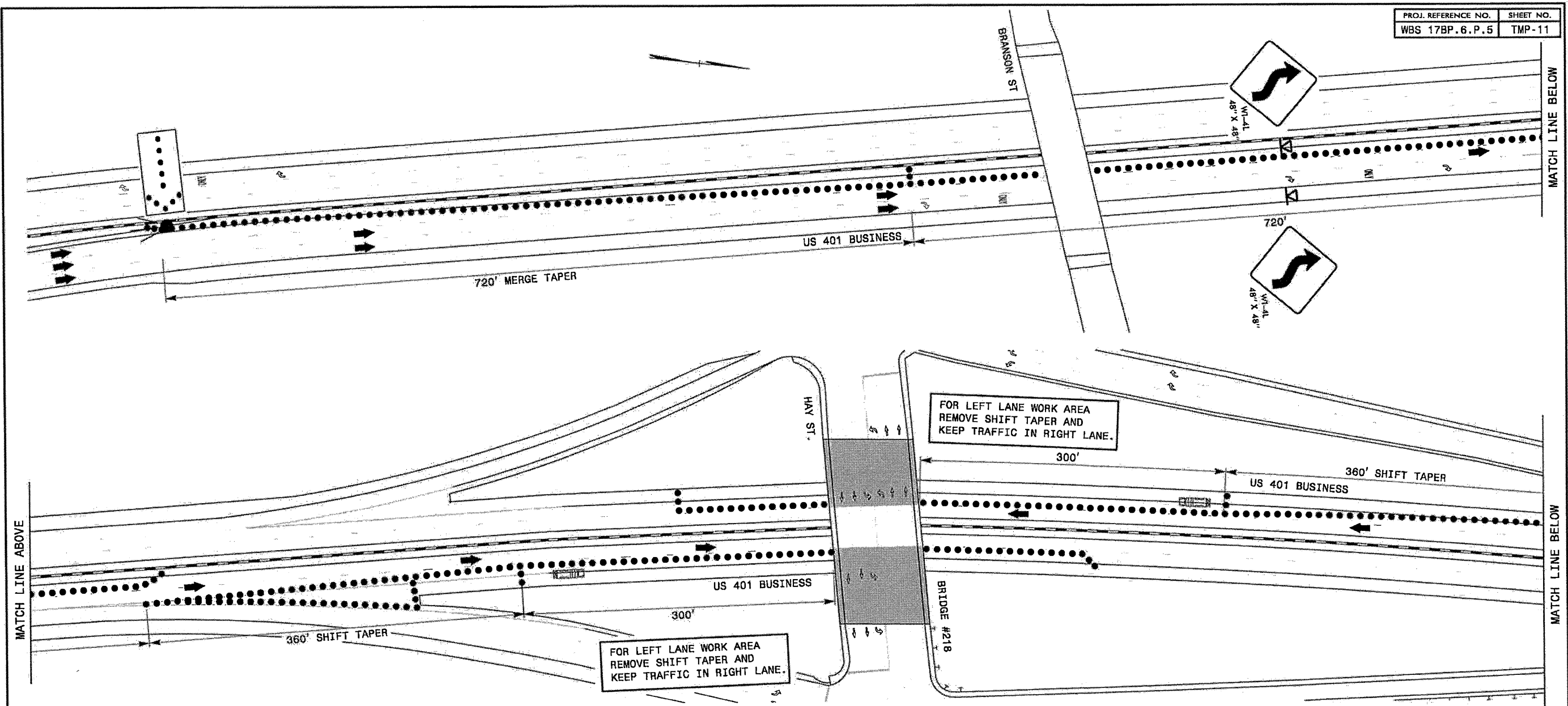
CUMBERLAND BRIDGE #126
NC 24/NC 210/GROVE ST
RIGHT LANE
WORK AREA



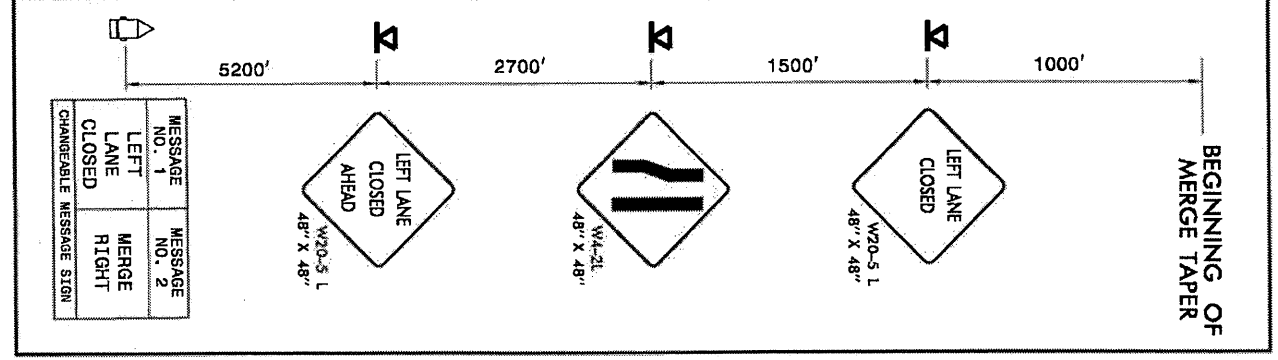
APPLY THIS DETAIL FOR I-95 SBL COLLECTOR/DISTRIBUTOR ENTRANCE RAMP AND EXIT 52A.

12/19/2012 UN:\traffic\TrafficControl\WBS 17BP.6.P.5 Cumberland_Harnett_Painting\TCP\Plan Sheets\17BP.6.P.5.TC_TMP_10_CUMBERLAND_135.dgn

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	SEAL 		



SIGNING IN ADVANCE OF LEFT LANE CLOSURE
 PLACE SIGNS ON THE RIGHT SIDE OF THE ROADWAY AND ON THE LEFT WHEN POSSIBLE



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APPROVED: _____ DATE: _____

SEAL

Robert [Signature]
 12/3/12

NORTH CAROLINA PROFESSIONAL ENGINEER
 REG. NO. 12345
 L. WATSON

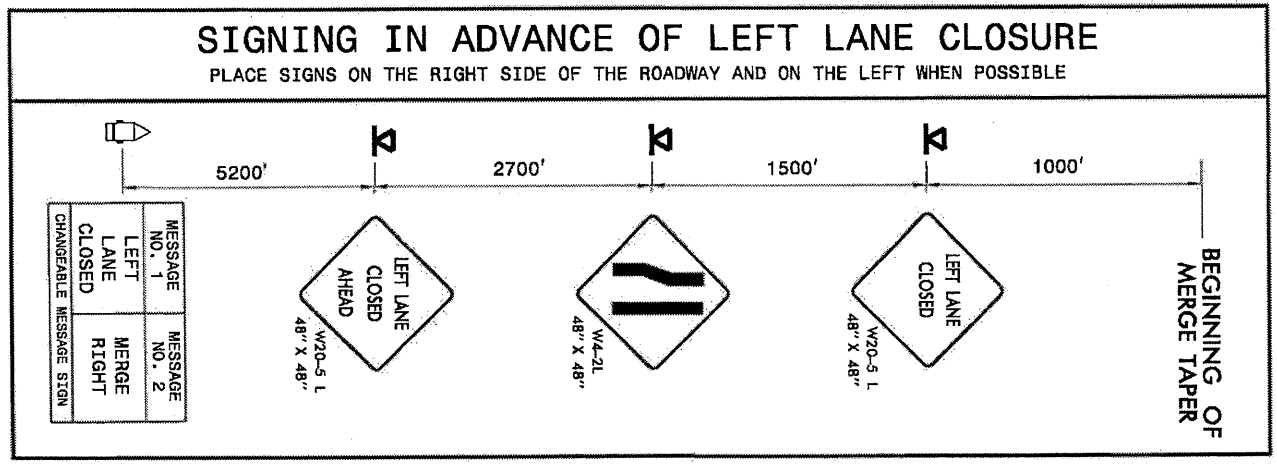
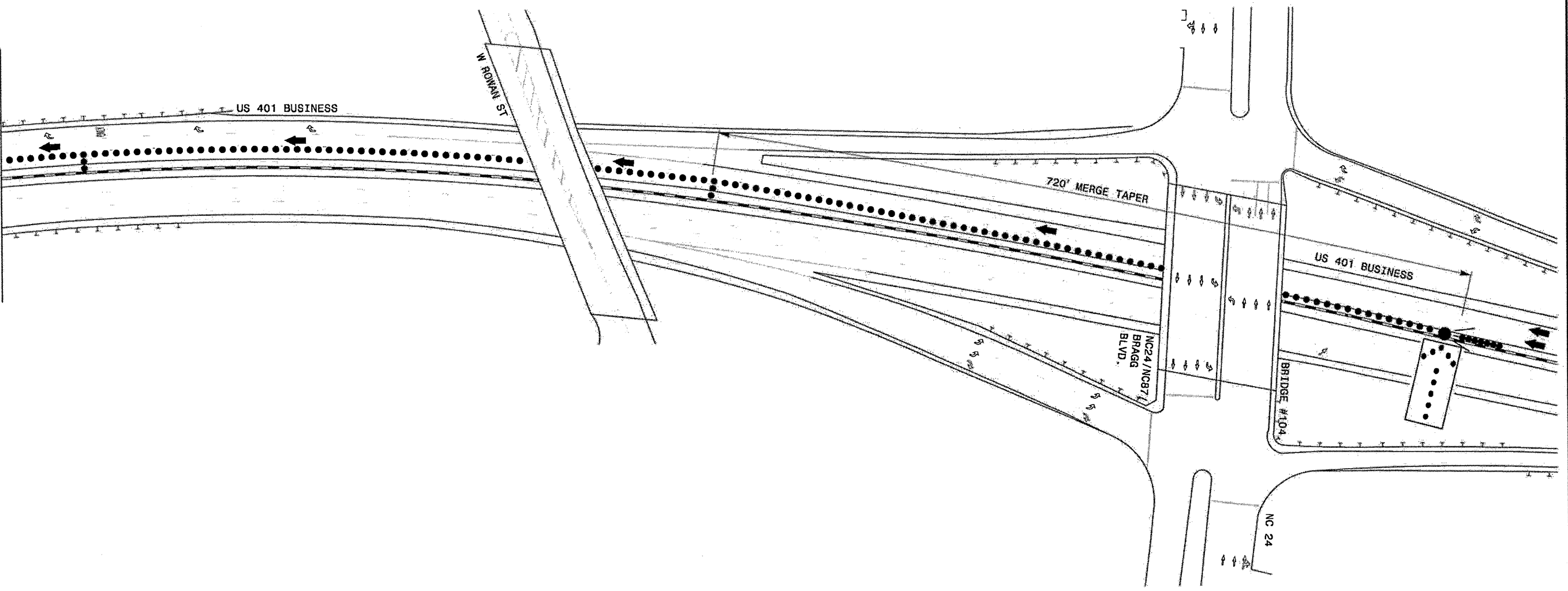
DIVISION OF HIGHWAY & TRANSPORTATION
 STATE OF NORTH CAROLINA
 WORK ZONE TRAFFIC CONTROL

CUMBERLAND BRIDGE #218

US 401 BUSINESS
 LEFT AND RIGHT LANE
 WORK AREAS

12/3/2012
 US 401 Business
 TrafficControl\WBS 17BP.6.P.5 Cumberland Harnett Printing\TCP\Plan Sheets\17BP.6.P.5.TC.TMP.11.CUMBERLAND.218.dgn
 rculien

MATCH LINE PREVIOUS SHEET



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	12/13/2012 LA TrafficControl\WBS 17BP.6.P.5 Cumberland_Hornett_TrafficControl\Plan Sheets\17BP.6.P.5.TC_TMP_11A_CUMBERLAND_218.dgn 12/13/2012			

TIP PROJECT: 17BP.6.P.6

CONTRACT NO: C203267



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
**BLADEN, COLUMBUS
AND ROBESON
COUNTIES**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.6.P.6	4	
STATE PROJECT NO.	F.A.PROJ.NO.	DESCRIPTION	
17BP.6.P.6	N/A	PE	
17BP.6.P.6	N/A	CONSTR	

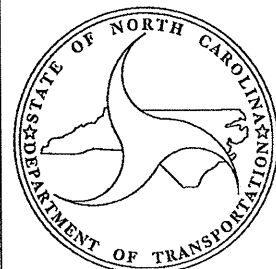
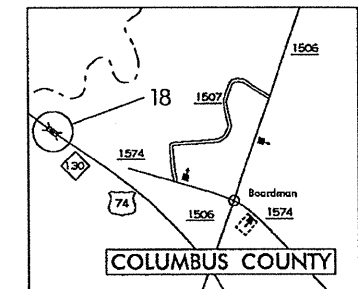
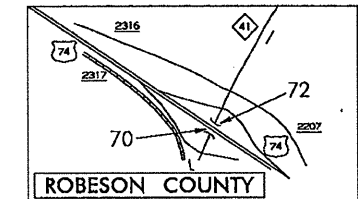
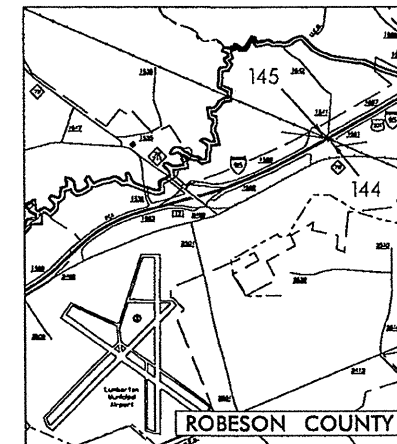
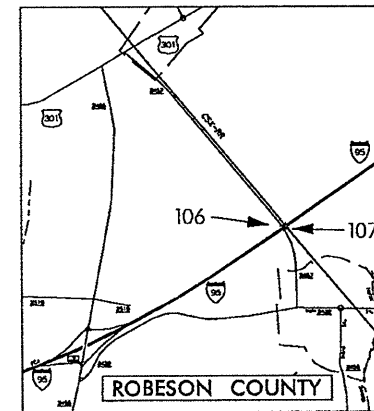
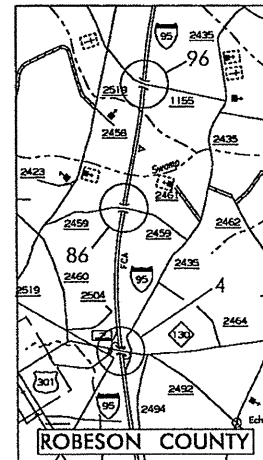
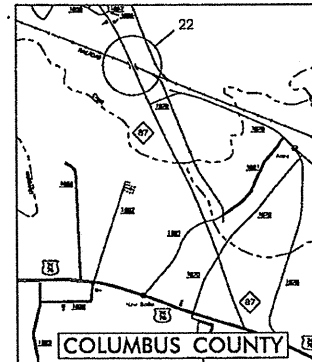
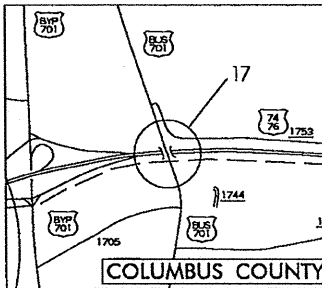
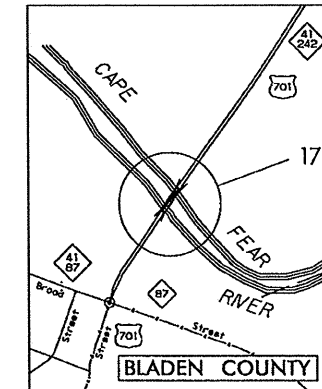
LOCATION: **BLADEN COUNTY:**
BRIDGE #17 ON US 701 /NC 41 OVER CAPE FEAR RIVER

COLUMBUS COUNTY:
BRIDGE #17 ON US 701 BUS OVER US 74 BYPASS /US 76 BYPASS
BRIDGE #18 ON US 74 WBL OVER LUMBER RIVER OVERFLOW
BRIDGE #22 ON NC 87 OVER CSX-RR

ROBESON COUNTY:
BRIDGE #4 ON NC 130 OVER I-95
BRIDGE #70 ON US 74 EBL OVER NC 41
BRIDGE #72 ON US 74 WBL OVER NC 41
BRIDGE #86 ON SR 2459 OVER I-95
BRIDGE #96 ON SR 1155 OVER I-95
BRIDGE #106 ON I-95 NBL OVER SR 2457
BRIDGE #107 ON I-95 SBL OVER SR 2457
BRIDGE #144 ON I-95 NBL OVER SR 1541 /CSX-RR
BRIDGE #145 ON I-95 SBL OVER SR 1541 /CSX-RR



TYPE OF WORK: BRIDGE PRESERVATION- CLEANING & PAINTING OF EXISTING BRIDGE STRUCTURES



DESIGN DATA			
BLADEN		ROBESON	
#17 ADT 2011	= 6500	#4 ADT 2009	= 3600
COLUMBUS		#70 ADT 2011	= 4500
#17 ADT 2011	= 4000	#72 ADT 2011	= 4500
#18 ADT 2009	= 6500	#86 ADT 2009	= 580
#22 ADT 2007	= 10000	#96 ADT 2009	= 680
		#106 ADT 2009	= 16000
		#107 ADT 2008	= 16000
		#144 ADT 2010	= 27000
		#145 ADT 2010	= 27000

PROJECT LENGTH			
BLADEN		ROBESON	
BRIDGE #17	= .223 MILES	BRIDGE #4	= .047 MILES
COLUMBUS		BRIDGE #70	= .029 MILES
BRIDGE #17	= .048 MILES	BRIDGE #72	= .029 MILES
BRIDGE #18	= .026 MILES	BRIDGE #86	= .050 MILES
BRIDGE #22	= .037 MILES	BRIDGE #96	= .050 MILES
		BRIDGE #106	= .043 MILES
		BRIDGE #107	= .040 MILES
		BRIDGE #144	= .044 MILES
		BRIDGE #145	= .044 MILES

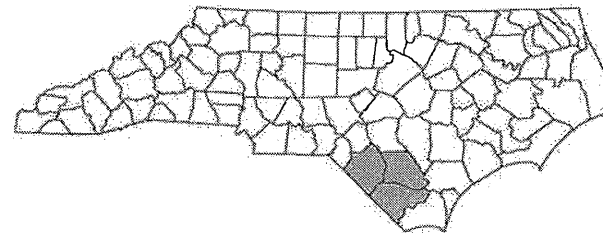
Prepared in the Office of:
STRUCTURES MANAGEMENT UNIT
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2012 STANDARD SPECIFICATIONS	
LETTING DATE: JUNE 18, 2013	RICK NELSON, PE PROJECT ENGINEER

NORTH CAROLINA
PROFESSIONAL ENGINEER
20103
3/25/13
FARZIN ASEFANIA
FARZIN ASEFANIA P.E.
PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN
BLADEN, COLUMBUS, & ROBESON COUNTIES
DIVISION 6



BLADEN COUNTY

BRIDGE #17 - US 701 SBL/NC 41/NC 242 over Cape Fear River

COLUMBUS COUNTY

BRIDGE #17 - US 701 Business over US 74/76

BRIDGE #18 - US 74/NC 130 WBL over Lumber River

BRIDGE #22 - NC 87 over Railroad

ROBESON COUNTY

BRIDGE #4 - NC 130 over I-95

BRIDGE #70 - US 74 EBL over NC 41

BRIDGE #72 - US 74 WBL over NC 41

BRIDGE #86 - SR 2459 (Home Rd) over I-95

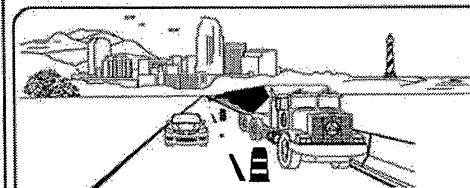
BRIDGE #96 - SR 1155 (Dew Rd) over I-95

BRIDGE #106 - I-95 NBL over SR 2457 (Boyce Rd)

BRIDGE #107 - I-95 SBL over SR 2457 (Boyce Rd)

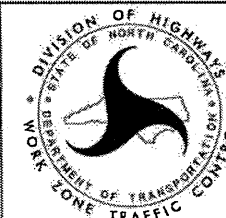
BRIDGE #144 - I-95 NBL over SR 1541 (VFW Rd) and Railroad

BRIDGE #145 - I-95 SBL over SR 1541 (VFW Rd) and Railroad



WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

PLAN PREPARED FOR NCDOT STRUCTURES MANAGEMENT UNIT
RALEIGH, NC



PLAN PREPARED BY:
Stantec Consulting Services Inc.
801 Jones Franklin Road-Suite 300
Raleigh, NC 27606
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www.stantec.com

BETSY L. WATSON, P.E.

TRAFFIC ENGINEER

GEORGE KARAGEORGE

SR. TRANSPORTATION DESIGNER

APPROVED: *Betsy L. Watson*
DATE: 12/13/12

SEAL



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LEGEND AND LIST OF ROADWAY STANDARD DRAWINGS
TMP-2	GENERAL NOTES
TMP-3	VICINITY MAPS & PHASING
TMP-4	ROBESON #4 - I-95 NB RIGHT LANE/RAMP LANE WORK AREA
TMP-4A	ROBESON #4 - I-95 NB DETOUR ROUTE
TMP-5	ROBESON #4 - I-95 SB RIGHT LANE/RAMP LANE WORK AREA
TMP-5A	ROBESON #4 - I-95 SB DETOUR ROUTE
TMP-6	ROBESON #144/145 - FLAGGING OPERATION SR 1541 EASTBOUND WORK AREA
TMP-7	ROBESON #144/145 - FLAGGING OPERATION SR 1541 WESTBOUND WORK AREA




































TRAFFIC MANAGEMENT STRATEGY

PROPOSED BRIDGE PAINTING WILL BE PERFORMED USING DAY AND TIME RESTRICTED LANE CLOSURES, RAMP CLOSURES AND OFF-SITE DETOURS. REFER TO SHEET TMP-3 FOR PHASING.

WBS 17BP.6.P.6

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LEGEND

-  DIRECTION OF TRAFFIC FLOW
 -  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
 -  WORK AREA
 -  PAVEMENT REMOVAL
 -  NORTH ARROW
 -  TYPE III BARRICADE
 -  CONE
 -  DRUM
 -  SKINNY DRUM
 -  TUBULAR MARKER
 -  CHANGEABLE MESSAGE SIGN (CMS)
 -  FLAGGER
 -  AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)
 -  FLASHING ARROW BOARD (TYPE C)
 -  LAW ENFORCEMENT
 -  TRUCK MOUNTED ATTENUATOR (TMA)
 -  PORTABLE CONCRETE BARRIER (PCB)
 -  TEMPORARY CRASH CUSHION
 -  TEMPORARY SHORING
 -  WORK ZONE SIGN-PORTABLE
 -  WORK ZONE SIGN-STATIONARY
 -  WORK ZONE SIGN-STATIONARY OR PORTABLE
- SIGNALS**
-  EXISTING
 -  PROPOSED
 -  TEMPORARY
- PAVEMENT MARKINGS**
-  EXISTING PAVEMENT MARKING (GRAY)
 -  SKIP LINES
 -  MINI-SKIP LINES
 -  SOLID LINES
- PAVEMENT MARKING SYMBOLS**
-  PAVEMENT MARKING SYMBOLS
 -  EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)
 -  ONLY PAVEMENT MARKING ALPHANUMERIC CHARACTERS
- PAVEMENT MARKERS**
-  CRYSTAL/CRYSTAL
 -  CRYSTAL/RED
 -  YELLOW/YELLOW

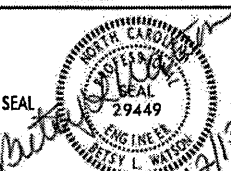
ROADWAY STANDARD DRAWINGS


THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:


STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION

12/13/2012
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APPROVED:  DATE: 12/13/12

SEAL  29449
 P. L. WATSON
 ENGINEER

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

LEGEND
 &
 ROADWAY STANDARD DRAWINGS

GENERAL NOTES

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

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.

LANE CLOSURE TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
<u>BLADEN CO.</u> US 701/NC 41	6:00 A.M. - 7:00 P.M. MONDAY THRU SUNDAY (EVERY DAY)
<u>COLUMBUS CO.</u> US 701 BUSINESS	6:00 A.M. - 9:00 A.M. MONDAY THRU FRIDAY 4:00 P.M. - 7:00 P.M. MONDAY THRU FRIDAY
US 74 NC 87	6:00 A.M. - 7:00 P.M. MONDAY THRU SUNDAY (EVERY DAY)
<u>ROBESON CO.</u>	
I-95	6:00 A.M. - 7:00 P.M. MONDAY THRU THURSDAY 6:00 A.M. - FRIDAY - 7:00 P.M. SUNDAY
NC 41	6:00 A.M. - 7:00 P.M. MONDAY THRU SUNDAY (EVERY DAY)

B) DO NOT CLOSE OR NARROW A LANE OF TRAFFIC, DETAIN AND/OR ALTER THE TRAFFIC FLOW ON OR DURING HOLIDAYS, HOLIDAY WEEKENDS, OR ANY OTHER TIME WHEN TRAFFIC IS UNUSUALLY HEAVY, INCLUDING THE FOLLOWING SCHEDULES:

ROAD NAME
ALL ROADS

HOLIDAY & HOLIDAY WEEKEND LANE CLOSURE TIME RESTRICTIONS

- 1) FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2) FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- 3) FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 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 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- 6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE OR NARROW TRAVEL LANES DURING SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
I-95

- 1) FOR THE BIKE WEEK SPECIAL EVENTS AT MYRTLE BEACH AND DAYTONA 500, BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE THE EVENT AND 7:00 P.M. THE TUESDAY AFTER THE EVENT.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) LANE CLOSURES ARE REQUIRED WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN ANY PORTION OF A TRAVEL LANE. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) 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. COVER OR LAY DOWN SIGNS, AND TURN OFF ARROW BOARDS AND MESSAGE BOARDS.
- F) 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.
- G) 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 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- H) 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 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

ROAD CLOSURES

- I) FURNISH AND INSTALL OFFSITE-DETOUR ROUTE SIGNING AS SHOWN IN THE TRANSPORTATION MANAGEMENT PLAN. COVER OR REMOVE OFFSITE-DETOUR SIGNING WHEN THE DETOUR IS NOT IN OPERATION. ALL DETOUR ROUTES MUST BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTING.
- J) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- K) WHEN CLOSING A ROADWAY OR DRIVEWAY PLACE TYPE III BARRICADES COMPLETELY ACROSS THE ROADWAY OR FROM CURB TO CURB. ATTACH BARRICADE MOUNTED "ROAD CLOSED" SIGN R11-2 AT ALL CLOSURE LOCATIONS. IF LOCAL TRAFFIC IS TO BE MAINTAINED STAGGER THE BARRICADES TO ALLOW ACCESS.
- L) INSTALL SIGNS BEFORE BARRICADES WHEN CLOSING A ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING A ROADWAY TO TRAFFIC. INSTALL/REMOVE ROAD CLOSURE SIGNS AND BARRICADES IN A CONTINUOUS OPERATION AND WITHIN THE SAME CALENDAR DAY.



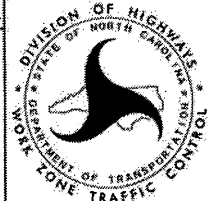
FLAGGER OPERATIONS

- M) DURING FLAGGER OPERATIONS DO NOT STOP TRAFFIC FOR MORE THAN 5 MINUTES AT A TIME.
- N) LOCATE FLAGGER STATIONS SUCH THAT APPROACHING TRAFFIC WILL HAVE SUFFICIENT DISTANCE TO STOP AT THE INTENDED STOPPING POINT. IF NEEDED, EXTEND THE LANE CLOSURE SUCH THAT THE FLAGGER STATION IS POSITIONED BEFORE A HORIZONTAL OR CREST VERTICAL CURVE WHERE ADEQUATE STOPPING SIGHT DISTANCE TO THE FLAGGER IS PROVIDED. REFER TO ROADWAY STANDARD DRAWING 1101.11 SHEET 2.
- O) FLAGGERS SHALL NOT STAND IN THE ROADWAY.
- P) USE FLAGGERS TO CONTROL VEHICLES AT INTERSECTIONS OR RAILROAD GRADE CROSSINGS AFFECTED BY THE LANE CLOSURE. USE FLAGGER SIGN W20-7A IN ADVANCE OF ALL FLAGGER STATIONS. WHEN AN INTERSECTION IS SIGNALIZED HAVE AUTHORIZED PERSONNEL PLACE THE SIGNAL IN FLASH MODE WHEN DIRECTED BY THE ENGINEER.
- Q) PROVIDE ILLUMINATION FOR FLAGGER STATIONS DURING NIGHT HOURS. ILLUMINATION FOR FLAGGER STATIONS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.
- R) PLACE CHANNELIZING DEVICES FOR FLAGGER OPERATION LANE CLOSURES AT A MAXIMUM SPACING OF 20 FEET IN TAPERS AND AT A MAXIMUM SPACING OF 80 FEET ALONG THE BUFFER SPACE AND WORK AREA.
- S) DRUMS OR SKINNY DRUMS MAY BE USED INSTEAD OF CONES AT NO ADDITIONAL COST.
- T) ADVISE RESIDENTS AND BUSINESSES AFFECTED BY THE LANE CLOSURE ABOUT METHODS OF SAFE INGRESS AND EGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT CAR OPERATIONS.

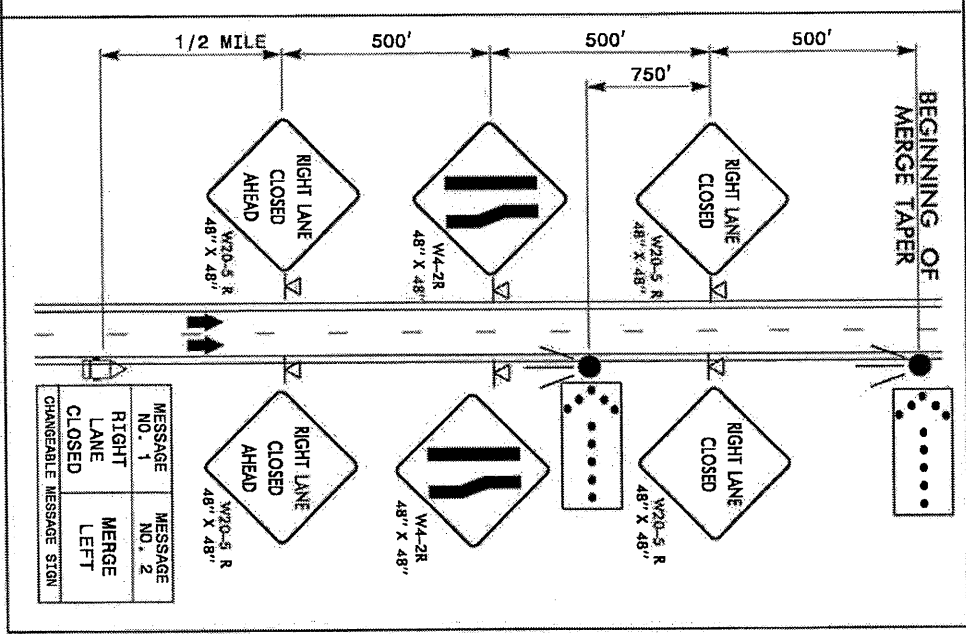
MISCELLANEOUS

- U) ALL DIMENSIONS AND STATIONS IN THE TRANSPORTATION MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- V) PLACE ALL CHANGEABLE MESSAGE SIGNS AS NEEDED IN THE LOCATIONS AND WITH THE WORD MESSAGES AS SHOWN IN THE PLAN OR AS DIRECTED BY THE ENGINEER TO PROVIDE ADVANCE WARNING TO THE PUBLIC DURING CONSTRUCTION.
- W) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.
- X) CHANGEABLE MESSAGE SIGN MESSAGES SHOWN ARE EXAMPLES. OTHER MESSAGES MAY BE USED AS CONDITIONS WARRANT. ALL MESSAGES AND LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO INCORPORATING.
- Y) DO NOT PERFORM WORK FROM THE ROADWAY ON TOP OF ANY BRIDGE, UNLESS SPECIFICALLY ALLOWED IN THE PLAN OR BY THE ENGINEER.

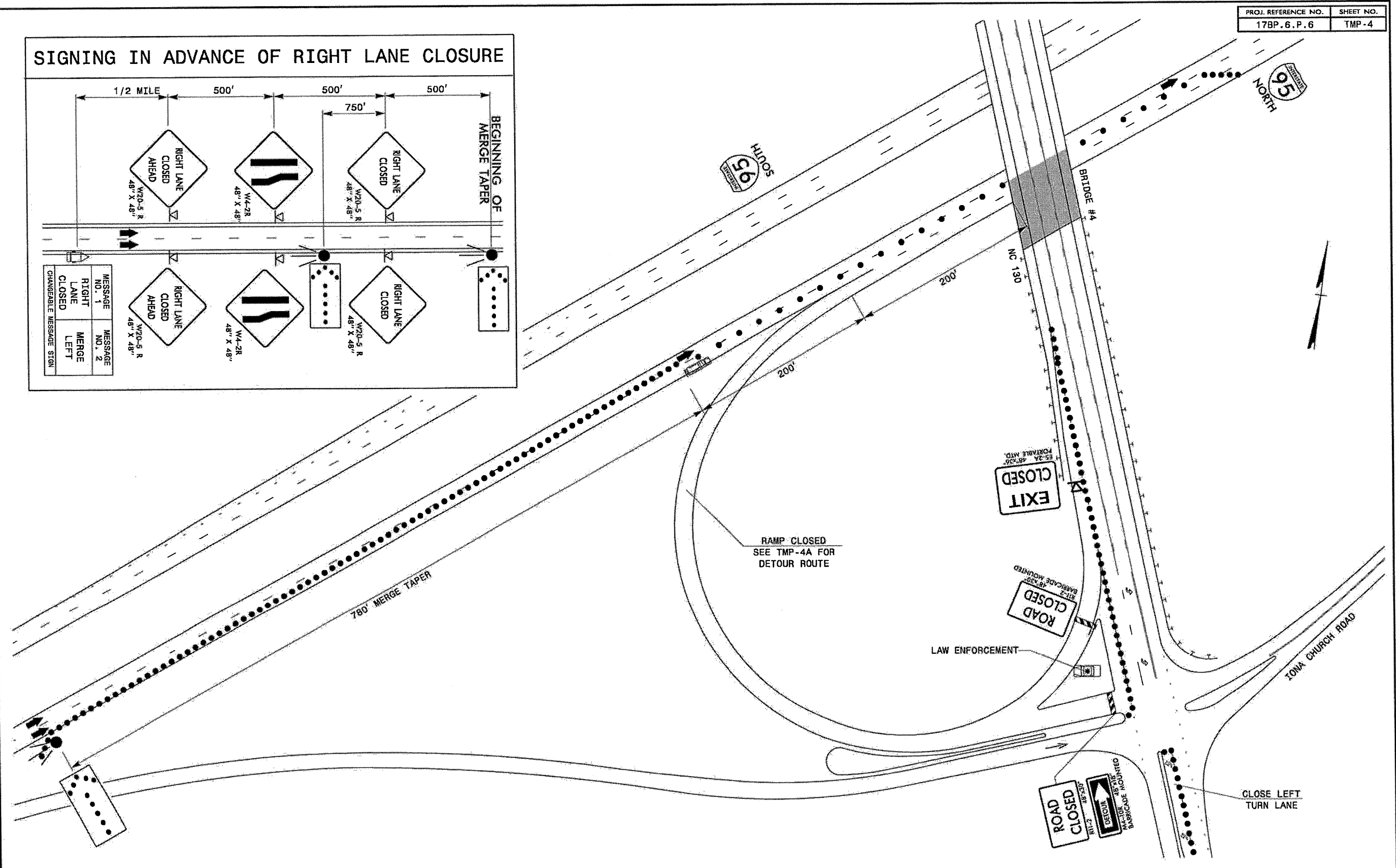
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SIGNING IN ADVANCE OF RIGHT LANE CLOSURE

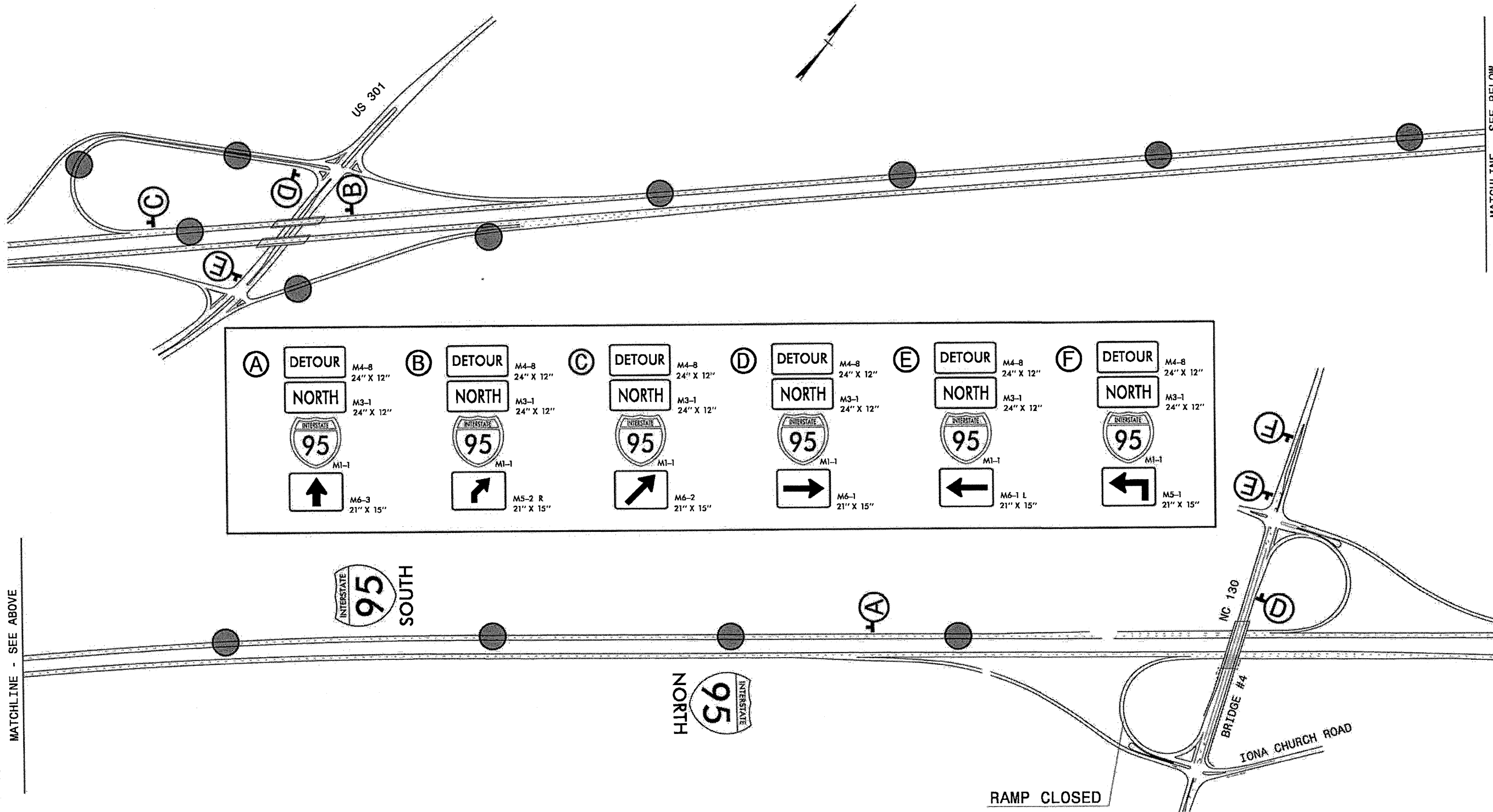


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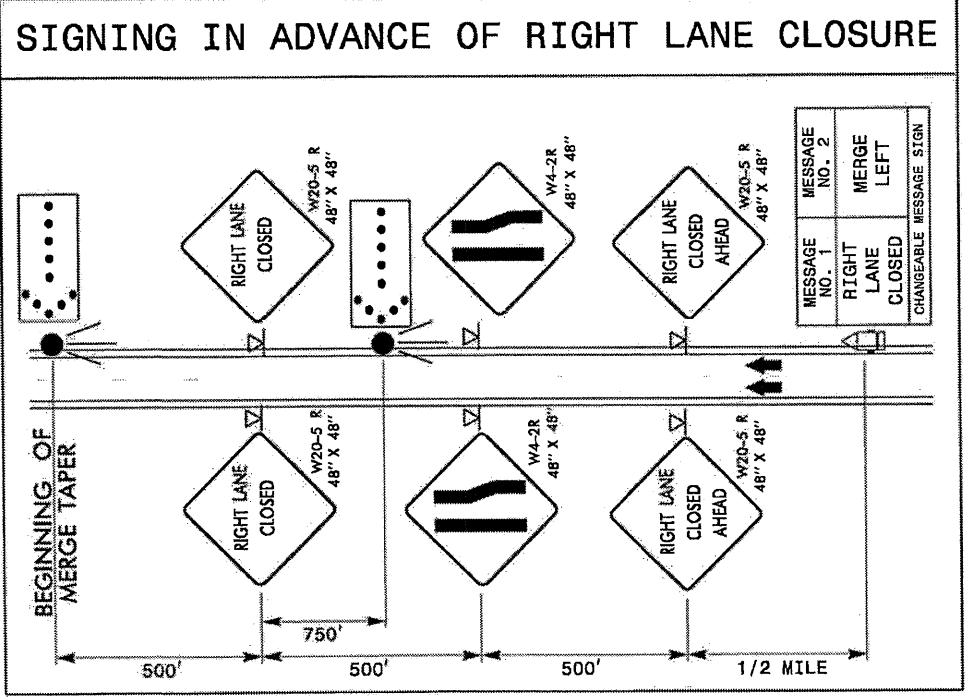
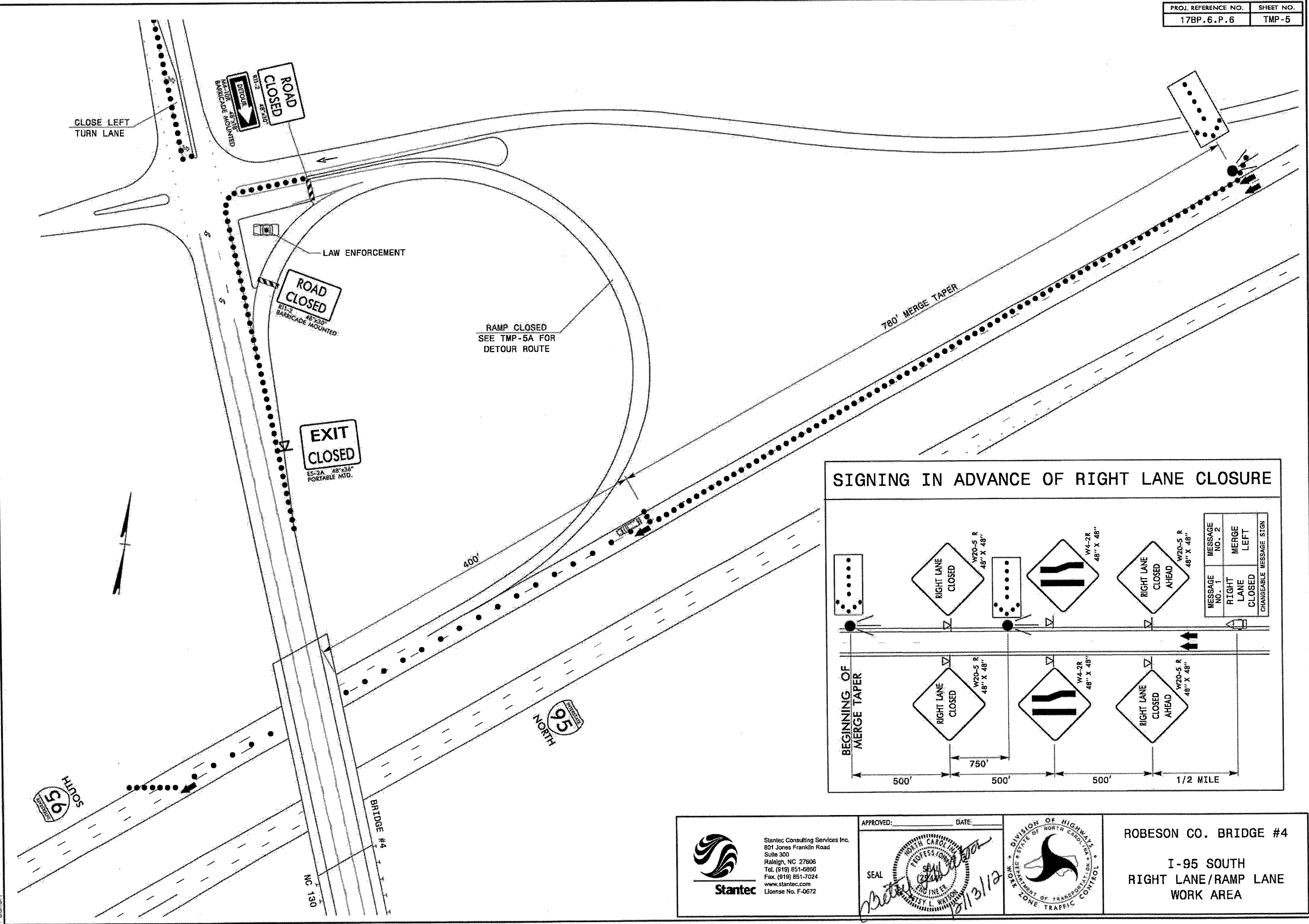
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(A)	DETOUR M4-8 24" X 12"	(B)	DETOUR M4-8 24" X 12"	(C)	DETOUR M4-8 24" X 12"	(D)	DETOUR M4-8 24" X 12"	(E)	DETOUR M4-8 24" X 12"	(F)	DETOUR M4-8 24" X 12"
	NORTH M3-1 24" X 12"		NORTH M3-1 24" X 12"		NORTH M3-1 24" X 12"		NORTH M3-1 24" X 12"		NORTH M3-1 24" X 12"		NORTH M3-1 24" X 12"
	M1-1		M1-1		M1-1		M1-1		M1-1		M1-1
	M6-3 21" X 15"		M5-2 R 21" X 15"		M6-2 21" X 15"		M6-1 21" X 15"		M6-1 L 21" X 15"		M5-1 21" X 15"

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	SEAL 		

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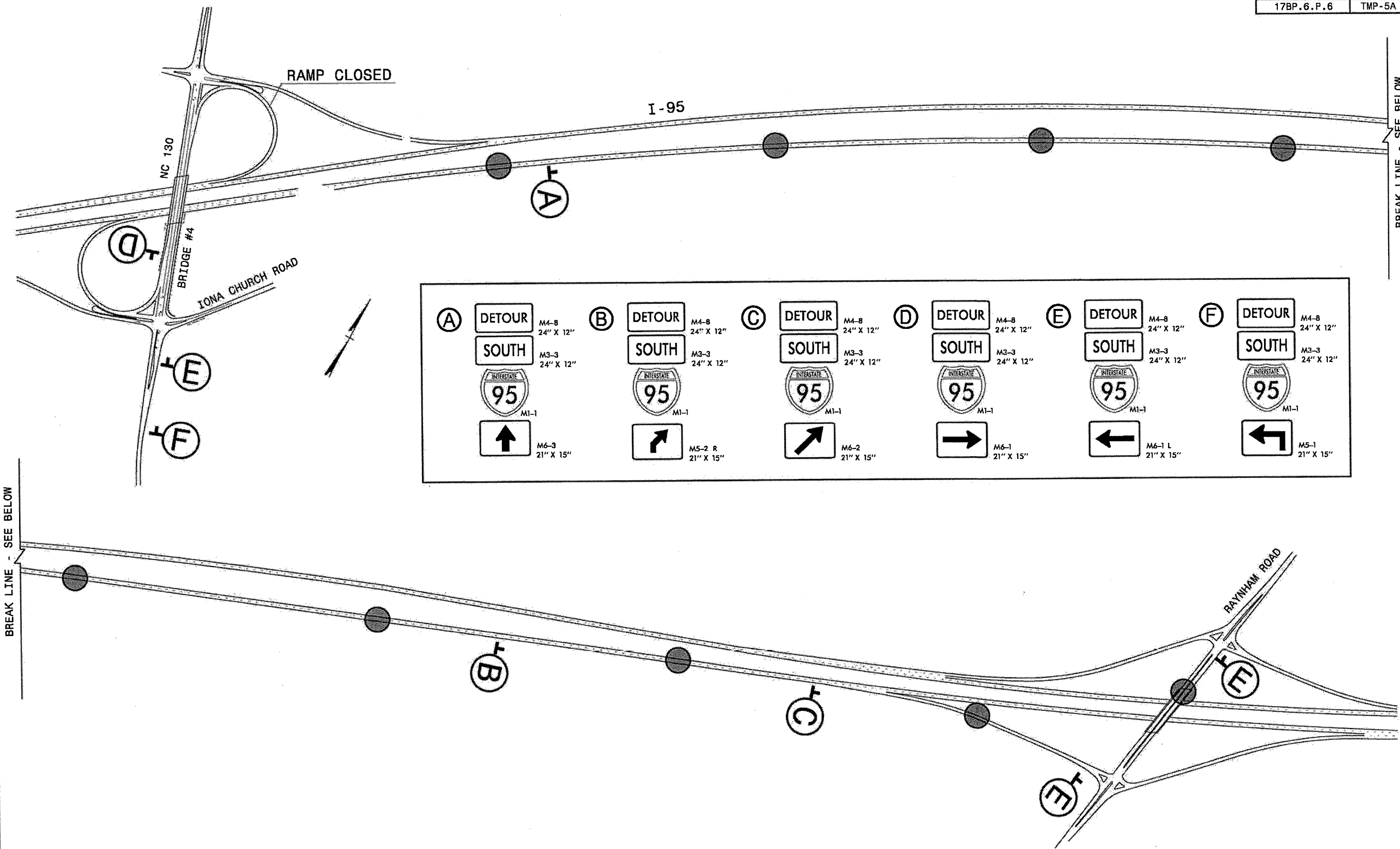


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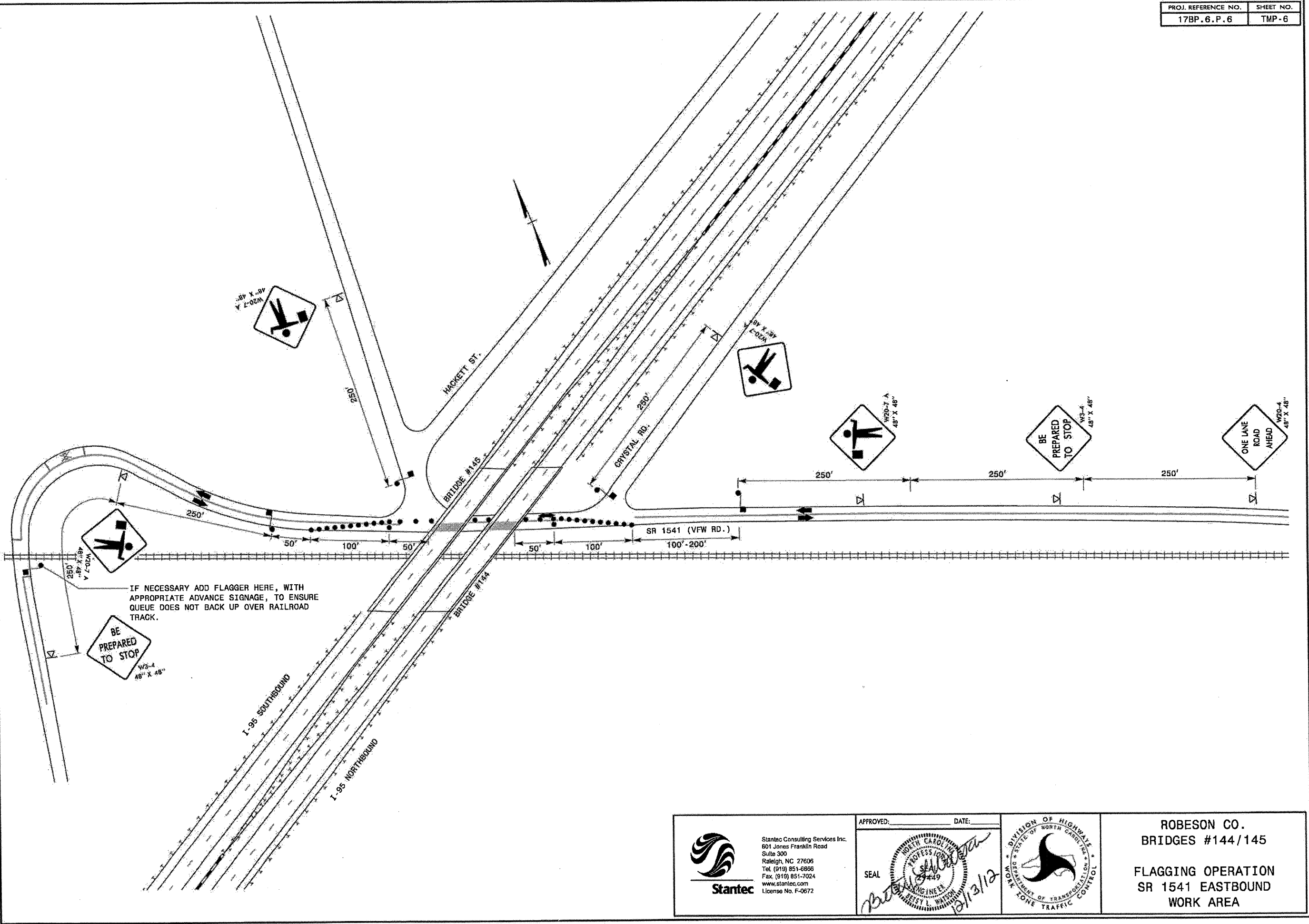
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(A)	DETOUR SOUTH M4-8 24" X 12" M3-3 24" X 12" 95 M1-1 M6-3 21" X 15"	(B)	DETOUR SOUTH M4-8 24" X 12" M3-3 24" X 12" 95 M1-1 M5-2 R 21" X 15"	(C)	DETOUR SOUTH M4-8 24" X 12" M3-3 24" X 12" 95 M1-1 M6-2 21" X 15"	(D)	DETOUR SOUTH M4-8 24" X 12" M3-3 24" X 12" 95 M1-1 M6-1 21" X 15"	(E)	DETOUR SOUTH M4-8 24" X 12" M3-3 24" X 12" 95 M1-1 M6-1 L 21" X 15"	(F)	DETOUR SOUTH M4-8 24" X 12" M3-3 24" X 12" 95 M1-1 M5-1 21" X 15"
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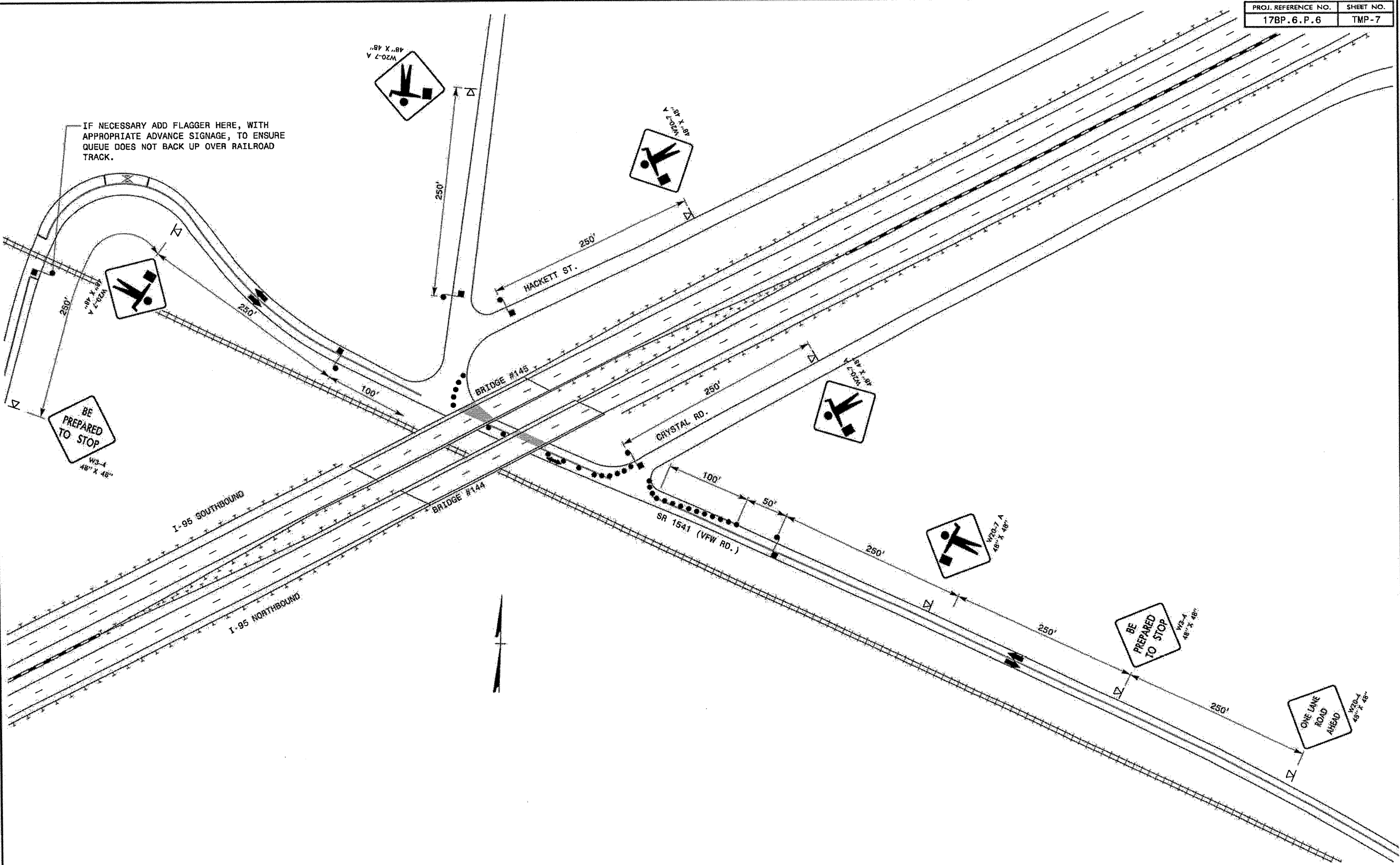
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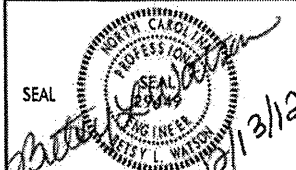



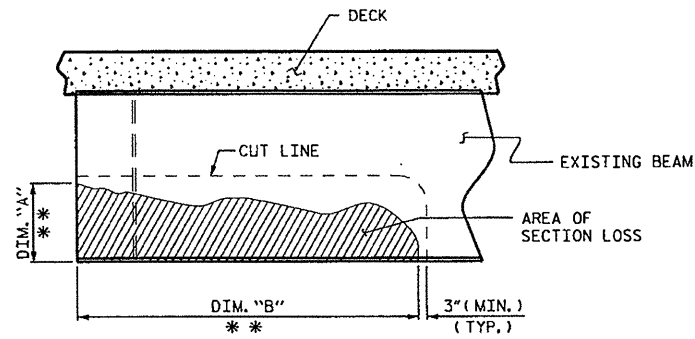
IF NECESSARY ADD FLAGGER HERE, WITH APPROPRIATE ADVANCE SIGNAGE, TO ENSURE QUEUE DOES NOT BACK UP OVER RAILROAD TRACK.

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	<p>SEAL</p>		

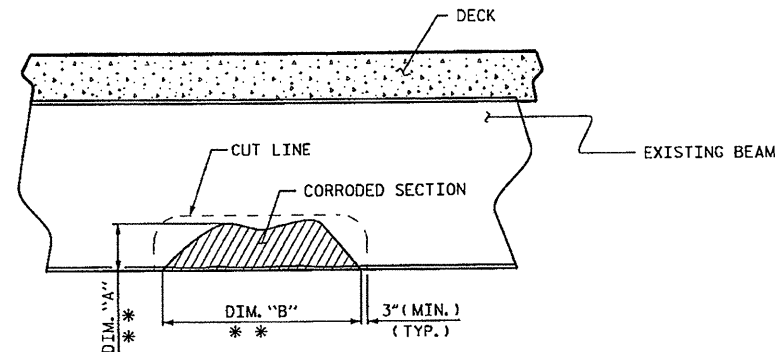
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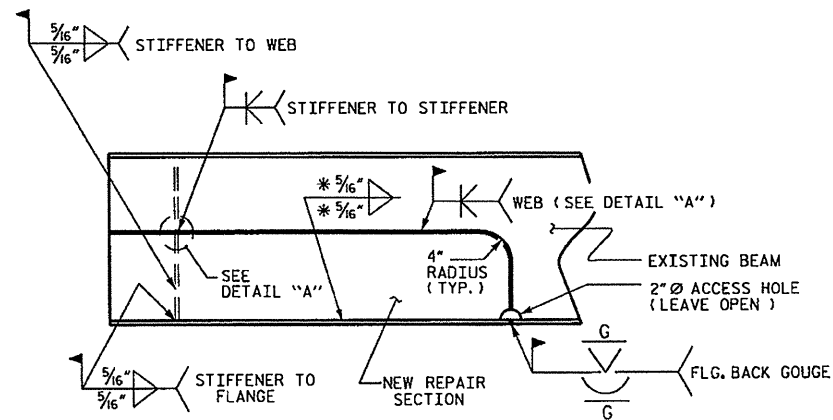
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	<p>SEAL</p>		



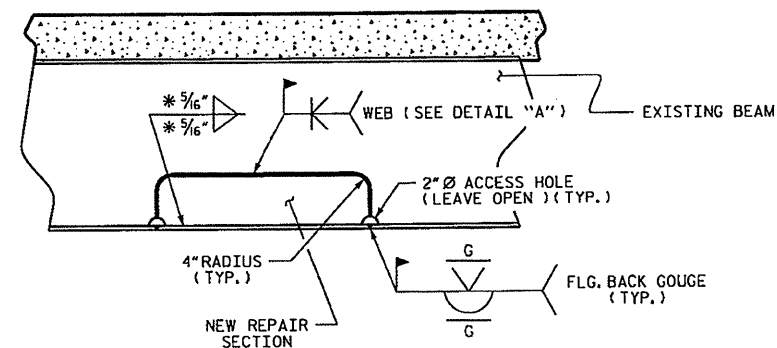
SECTION LOSS
BEAM END REPAIR



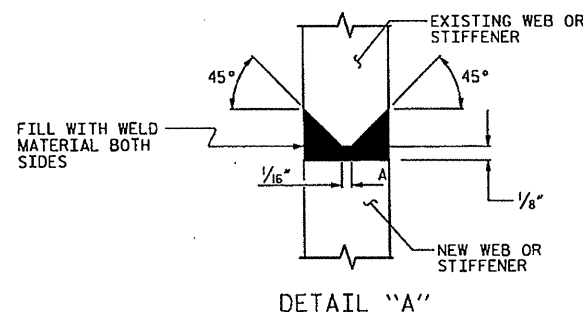
SECTION LOSS
INTERMEDIATE BEAM REPAIR



SECTION LOSS BEAM
END REPAIR SECTION

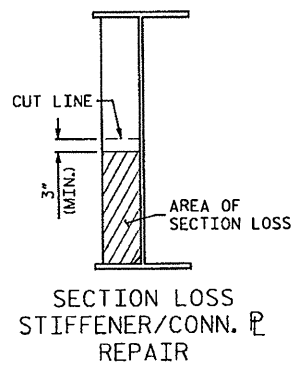


SECTION LOSS INTERMEDIATE
BEAM REPAIR SECTION

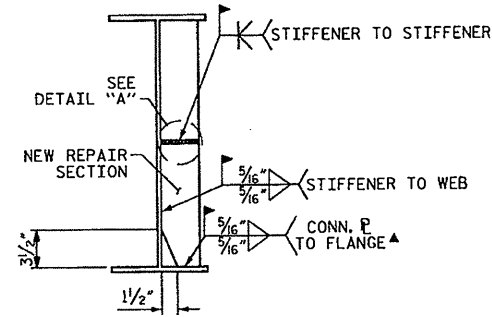


DETAIL "A"

* NOT NEEDED IF REPAIRED SECTION IS CUT FROM A ROLLED BEAM



SECTION LOSS
STIFFENER/CONN. P
REPAIR



SECTION LOSS
STIFFENER/CONN. P
REPAIR

▲ FOR STIFFENERS, MILL TO BEAR AND DO NOT WELD

BEAM REPAIR

AFTER THE STRUCTURAL STEEL HAS BEEN BLASTED AND PRIMED, THE STRUCTURAL STEEL AND BEARING SHALL BE INSPECTED FOR EXCESSIVE SECTION LOSS. AREAS THAT EXHIBIT AN EXCESS OF 35% SECTION LOSS SHALL BE REVIEWED BY THE ENGINEER TO DETERMINE IF AREA OF SECTION LOSS SHOULD BE REPAIRED.

AS DETERMINED BY THE ENGINEER, AREAS WITH EXCESSIVE SECTION LOSS OR AREAS WITH TEMPORARY REPAIRS SHALL BE REMOVED AND THE BEAMS SHALL BE REPAIRED AS INDICATED ON THIS PLAN SHEET. CONTRACTOR AND ENGINEER TO DETERMINE ACTUAL DIMENSIONS OF AREA TO BE REMOVED AND REPLACED. REMOVE CONCRETE BENT DIAPHRAGMS AS NEEDED TO EVALUATE LIMITS OF REPAIR.

PAYMENT FOR THE SECTION REPAIR SHALL BE BASED ON THAT AMOUNT OF REPAIR ACTUALLY PERFORMED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

GOUGES AND INDENTIONS FROM IMPACT ON GIRDERS SHALL BE GROUND SMOOTH PRIOR TO BLASTING AND PAINTING OPERATION.

REPAIR SEQUENCE:

REMOVE LIVE LOAD FROM REPAIR AREA BY EITHER CLOSING BRIDGE TO TRAFFIC OR SHIFTING TRAFFIC AWAY FROM REPAIR AREA.

REMOVE DEAD LOAD FROM BEAM BY JACKING AND BLOCKING.

STEEL DIAPHRAGM CHANNELS AND/OR STIFFENERS MAY BE TEMPORARILY REMOVED, IF NECESSARY, AND REPLACED AFTER BEAM REPAIR.

IF BEAM DETERIORATION EXTENDS INTO THE CONCRETE DIAPHRAGM THEN CHIP AWAY CONCRETE TO DETERMINE THE EXTENT OF THE DAMAGE. CUT OUT BY APPROPRIATE MEANS THE DAMAGED BEAM AREA AND/OR BEARING STIFFENER.

MECHANICALLY CLEAN RUST, SCALE, AND EXISTING PAINT TO AT LEAST 3" BEYOND REPAIR AREA.

REPLACEMENT CUT-TO-FIT BEAM SECTION SHALL BE NEW AND FROM SIMILAR SIZE ROLLED BEAM OR APPROVED EQUIVALENT PLATES. THE GRADE OF STEEL SHALL BE AASHTO M270, GRADE 36 OR BETTER.

INSTALL THE CUT-TO-FIT SECTION, FULLY WELD ALONG TOP AND SIDES OF PLATE USING FULL PENETRATION WELDS.

ALL WELDING SHALL BE IN ACCORDANCE WITH CURRENT APPLICABLE AWS AND NCDOT STANDARD SPECIFICATIONS.

ALL WELDS WILL BE INSPECTED AND TESTED BY THE NCDOT MATERIALS AND TEST UNIT IN ACCORDANCE WITH THE CURRENT AWS BRIDGE WELDING CODE AND STANDARD SPECIFICATIONS.

IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, AFTER REPAIR, GRIND ALL WELDS FLUSH, THOROUGHLY CLEAN AREA TO REMOVE DEBRIS AND OILS FROM REPAIR PROCESS.

CLEANING AND PAINTING OF REPAIRED STRUCTURAL STEEL SHALL BE PERFORMED AS PART OF THE OVERALL CLEANING AND PAINTING CONTRACT.

FOR CLEANING AND PAINTING, SEE PROJECT SPECIAL PROVISIONS.

AFTER GIRDERS ARE REPAIRED AND PAINTED, ANY CONCRETE REMOVED FROM THE BENT DIAPHRAGMS SHALL BE CAST BACK. ANY REINFORCING STEEL CUT DURING THE REMOVAL PROCESS SHALL BE SPLICED WITH A SIMILAR SIZE BAR WITH AT LEAST A ONE FOOT SPLICE TO THE EXISTING STEEL. NO SEPARATE PAYMENT SHALL BE MADE FOR CONCRETE AND REINFORCING STEEL AS THIS IS CONSIDERED INCIDENTAL TO THE PAY ITEM "GIRDER REPAIR."

LOWER SPAN TO BEAR; CHECK FOR DISTRESS.

REMOVE JACKING EQUIPMENT AND TEMPORARY SUPPORTS.

REMOVE ALL TRAFFIC CONTROL DEVICES.

PROJECT NO. 17BP.6.P.5 & 17BP.6.P.6
BLADEN, HARNETT, ROBESON,
COUNTIES: COLUMBUS, CUMBERLAND
BRIDGE NO. _____



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

**STRUCTURAL STEEL
REPAIR DETAILS**

REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	DATE:
1			3	
2			4	

TOTAL SHEETS: 5

DRAWN BY: M. WELDON DATE: 01/13
CHECKED BY: J. YANNACCONE DATE: 01/13