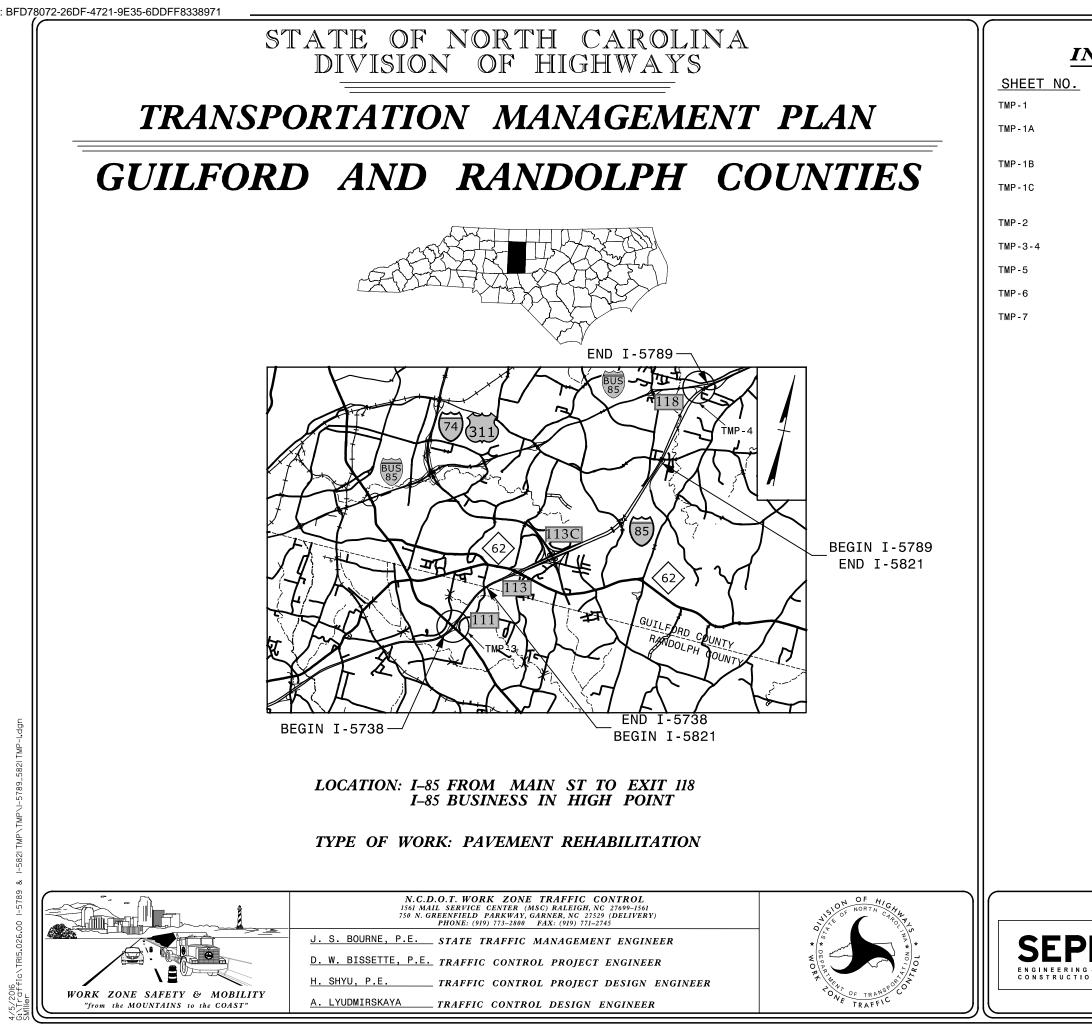
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IN	NDEX OF SHEETS	SHEET NO. TMP-1
•	<u>TITLE</u> TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES) TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND PHASING) SIGN LEGEND EXIT 111 DETOUR EXIT I-85 / I-85 BUS DETOUR LANE CLOSURE TYPICAL RAMP CLOSURE TYPICAL	5738/1-5789/1-5821

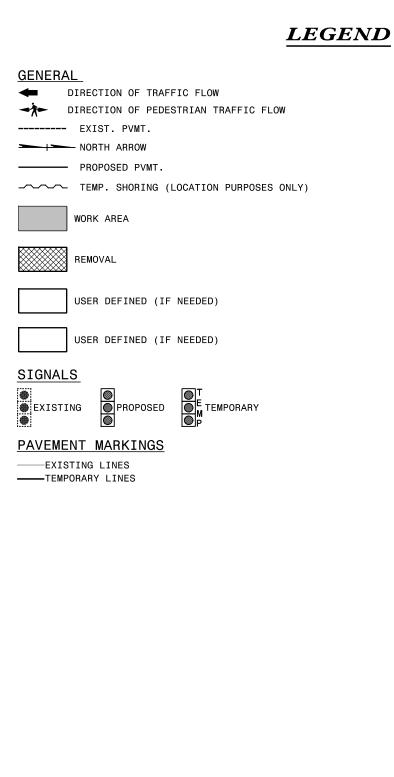
ROJECT

		T CONSIDERED FINAL NATURES COMPLETED — DocuSigned by:	d
PI 1025 Wade Avenue Raleigh, NC 27605 Tel 919-789-9977 Tel 919-789-9977 C T I O N License; C-2197	APPROVED: 4/ DATE: SEAL	Steve Miller 572016C15CEEEB486 ST2016C15CEEEB486 State	TIP

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 ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES - TYPE III
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS



		DocuSigned by:
		APPROVID: <u>Steve Miller</u> DATE: <u>3/167620016</u> CEEB486
SEPI ENGINEERING &	1025 Wade Avenue Raleigh, NC 27605 Tel:919-789-9977 Fax:919-789-9591	SEAL
CONSTRUCTION	License: C-2197	DOCUMENT NOT CONSIDERED UNLESS ALL SIGNATURES COM

PROJ. REFERENCE NO.	SHEET NO.
I-5738/I-5789/I-5821	TMP-1A

TRAFFIC CONTROL DEVICES

	BARRICADE (TYPE III)	
	CONE	
\bullet	DRUM 🔘 SKINNY DRUM 🛛 TUBULAR MARKER	
~~~	TEMPORARY CRASH CUSHION	
$\rightarrow$	FLASHING ARROW BOARD	
, I	FLAGGER	
	LAW ENFORCEMENT	
	TRUCK MOUNTED ATTENUATOR (TMA)	
	CHANGEABLE MESSAGE SIGN	
TEMPORARY SIGNING		

- PORTABLE SIGN
- STATIONARY SIGN
- O STATIONARY OR PORTABLE SIGN

#### PAVEMENT MARKERS

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

## PAVEMENT MARKING SYMBOLS

↑ ← ← PAVEMENT MARKING SYMBOLS



## ROADWAY STANDARD DRAWINGS & LEGEND

## **GENERAL NOTES**

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

TIME RESTRICTIONS

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

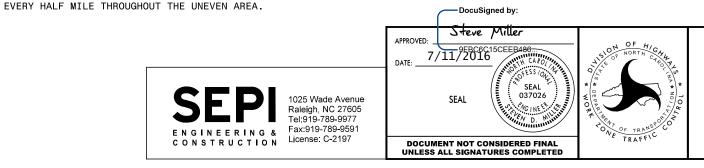
	ROAD NAME	DAY AND TIME RESTRICTIONS
	I-85 BUSINESS NB, I-85, AND MULTI-LANE RAMPS AND LOOPS	MONDAY THROUGH THURSDAY FROM 7:00 AM TO 7:00 PM
	I-85 BUSINESS NB, I-85, AND MULTI-LANE RAMPS AND LOOPS	FRIDAY FROM 7:00 AM TO 9:00 PM
	KIVETT DRIVE (SR 1113)	MONDAY THROUGH SUNDAY 7:00 AM TO 9:00 AM
B)	DO NOT CLOSE OR NARROW TWO TRAV	EL LANES AS FOLLOWS:
	ROAD NAME	DAY AND TIME RESTRICTIONS
	I-85 BUSINESS NB, I-85, AND MULTI-LANE RAMPS AND LOOPS	MONDAY THROUGH THURSDAY FROM 7:00 AM TO 7:00 PM
	I-85 BUSINESS NB, I-85, AND MULTI-LANE RAMPS AND LOOPS	FRIDAY FROM 7:00 AM TO 9:00 PM
	I-85 BUSINESS NB, I-85, AND MULTI-LANE RAMPS AND LOOPS	SATURDAY FROM 8:00 AM TO 7:00 PM
	I-85 BUSINESS NB, I-85, AND MULTI-LANE RAMPS AND LOOPS	SUNDAY FROM 10:00 AM TO 9:00 PM
C)	DO NOT CLOSE OR NARROW TRAVEL L AS FOLLOWS:	ANES DURING HOLIDAYS AND SPECIAL EVENTS
	ROAD NAME	

I-85

HOLIDAY

- 1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 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 7:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 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 7:00 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 7:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- 7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

	9. FOR THE CITY OF HIGH POINT FURNITURE MARKET, BETWEEN THE HOURS OF 7:00 A.M. THE MONDAY THAT THE MARKET BEGINS AND 7:00 P.M. THE FRIDAY THAT THE MARKET ENDS.	TRA	AFFIC PATTERN ALTERATIONS
	10. FOR ANY NASCAR RACE AT THE CHARLOTTE MOTOR SPEEDWAY, BETWEEN THE HOURS OF 7:00 A.M. THE WEDNESDAY BEFORE THE FIRST TRACK EVENT AND 7:00 P.M. THE DAY AFTER THE LAST TRACK EVENT.	L)	NOTIFY THE ENGINEER THIRTY (30) CALEND PATTERN ALTERATION.
	11 FOR THE WARDLAN COLE TOURNAMENT, RETWEEN THE HOURS OF 7.00 A M. THE	SIC	GNING
	11. FOR THE WYNDHAM GOLF TOURNAMENT, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF THE TOURNAMENT AND 7:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF THE TOURNAMENT.	M)	INSTALL ADVANCE WORK ZONE WARNING SIGN PRIOR TO THE BEGINNING OF CONSTRUCTION
D)	DO NOT CLOSE ROADS AS FOLLOWS:	N)	PROVIDE SIGNING AND DEVICES REQUIRED T THE ROADWAY STANDARD DRAWINGS AND TRAF
	ROAD NAME DAY AND TIME RESTRICTIONS MONDAY TO SUNDAY		PROVIDE SIGNING REQUIRED FOR THE OFF-5
	I-85 BUSINESS SB AND I-85 SINGLE 6:00 A.M. TO 12:00 A.M. (MIDNIGHT) LANE RAMPS AND LOOPS		TRAFFIC CONTROL PLANS.
LAN	NE AND SHOULDER CLOSURE REQUIREMENTS	0)	COVER OR REMOVE ALL SIGNS AND DEVICES ROAD CLOSURE IS NOT IN OPERATION.
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 REMOVE ALL SIGNS REQUIRED FOR DETOUR IS NOT IN OPERATION.
F)	WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN	P)	ENSURE ALL NECESSARY SIGNING IS IN PLA PATTERN.
	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.	TR/	AFFIC CONTROL DEVICES
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 USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.	Q)	WHEN LANE CLOSURES ARE NOT IN EFFECT S WORK AREAS NO GREATER IN FEET THAN TWI EXCEPT, 10 FT ON-CENTER IN RADII, AND TRAVELWAY. REFER TO STANDARD SPECIFICA SECTIONS 1130 (DRUMS), 1135 (CONES), A ADDITIONAL REQUIREMENTS.
	WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.	R)	PLACE TYPE III BARRICADES, WITH "ROAD SUFFICIENT LENGTH TO CLOSE ENTIRE ROAD
H)	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	S)	PLACE ADDITIONAL SETS OF THREE CHANNEL PERPENDICULAR TO THE EDGE OF TRAVELWAY LANES ARE CLOSED TO TRAFFIC.
	THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.		/EMENT MARKINGS AND MARKERS
I)	DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED	T)	INSTALL TEMPORARY PAVEMENT MARKINGS AN INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
	WITH GUARDRAIL OR BARRIER.		ROAD NAME MARKING ALL ROADS PAINT
FAV	PEMEINI EDGE DRUF OFF REQUIREMENTS	U)	PLACE ONE APPLICATION OF PAINT FOR TEM
J)	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:	,	PLACE A SECOND APPLICATION OF PAINT SI INITIAL APPLICATION AND EVERY SIX MONT ENGINEER.
	BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.	V)	TIE PROPOSED PAVEMENT MARKING LINES TO
	BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.	W)	REMOVE/REPLACE ANY CONFLICTING/DAMAGED BY THE END OF EACH DAY'S OPERATION.
		MIS	SCELLANEOUS
	BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.	X)	LAW ENFORCEMENT MAY BE USED TO MAINTA AND/OR INTERSECTIONS AS DIRECTED BY TH
K)	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) 1000 FEET IN ADVANCE AND A MINIMUM OF EVERY HALE MILE THEOLOGHOUT THE UNEVEN ADEA		



2012

#### PROJ. REFERENCE NO. SHEET NO. I-5738/I-5789/I-5821 TMP-1B

NDAR DAYS PRIOR TO ANY TRAFFIC

GNS NO MORE THAN THREE (3) DAYS ON

TO CLOSE THE ROAD ACCORDING TO AFFIC CONTROL PLANS.

-SITE DETOUR ROUTE AS SHOWN IN THE

S REQUIRED TO CLOSE THE ROAD WHEN

OR THE OFF-SITE DETOUR WHEN THE

LACE PRIOR TO ALTERING ANY TRAFFIC

SPACE CHANNELIZING DEVICES IN WICE THE POSTED SPEED LIMIT (MPH) D 3 FT OFF THE EDGE OF AN OPEN CATIONS FOR ROADS AND STRUCTURES AND 1180 (SKINNY DRUMS) FOR

D CLOSED" SIGN R11-2 ATTACHED, OF ADWAY.

ELIZING DEVICES DRUMS AY ON 500 FT CENTERS WHEN UNOPENED

AND TEMPORARY PAVEMENT MARKERS ON IS:

> MARKER NONE

EMPORARY TRAFFIC PATTERNS. SIX (6) MONTHS AFTER THE NTHS AS DIRECTED BY THE

TO EXISTING PAVEMENT MARKING LINES.

ED PAVEMENT MARKINGS AND MARKERS

AIN TRAFFIC THROUGH THE WORK AREA THE ENGINEER.

## TRANSPORTATION **OPERATIONS** PLAN

#### MANAGEMENT **STRATEGIES**

- MAINTAIN I-85 TRAFFIC THROUGH LANE CLOSURES
- RAMPS AND LOOPS MAY BE CLOSED AND TRAFFIC DETOURED OFF SITE
- PROVIDE THIRTY (30) CALENDAR DAYS NOTICE TO THE ENGINEER, RANDOLPH AND GUILFORD COUNTY EMERGENCY SERVICES, AND RANDOLPH AND GUILFORD COUNTY SCHOOL OFFICIALS PRIOR TO ROAD CLOSURE

## **PHASING**

- STEP 1: USING RSD 1101.01 SHEET 1 OF 3, PLACE ADVANCE WARNING SIGNS ALONG I 85 AND RAMPS WHERE NECESSARY.
- STEP 2: NOTE: THE CONTRACTOR MUST COMPLETE THE BRIDGE REHABILITATION IN EACH DIRECTION BEFORE PROCEEDING WITH THE PAVEMENT REHABILITATION IN THAT DIRECTION.

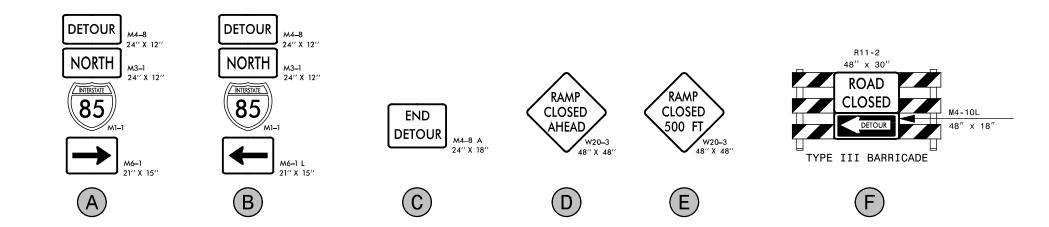
USING RSD 1101.02 SHEETS 4, 8, 9, AND 10 OF 15 AND RSD 1101.04, COMPLETE BRIDGE REHABILITATION AND PAVEMENT REHABILITATION OPERATIONS FOR THE ESTABLISHED WORK AREA, PLACING TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS NECESSARY. DRUM OFF SHOULDERS UNTIL THE ROLLER COMPACTED CONCRETE IS TRAFFIC READY. INTERCHANGE RAMPS AND LOOPS MAY BE CLOSED USING RSD 1101.03 SHEETS 1 AND 2 OF 9. SEE TMP-2 THROUGH TMP-7 FOR ADDITIONAL CLOSURE SIGNS AND THE OFF SITE DETOUR FOR EACH RAMP. RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL NOT CLOSE ANY RAMP OR LANE OF A RAMP THAT IS INCLUDED AS PART OF AN ACTIVE DETOUR.

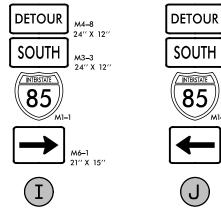
STEP 3: REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

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PROJ. REFERENCE NO.	SHEET NO.
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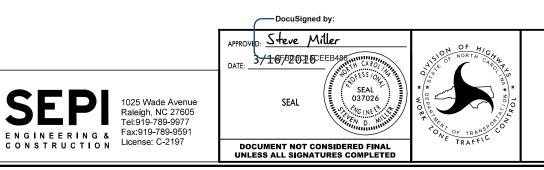


TRANSPORTATION OPERATIONS PLAN







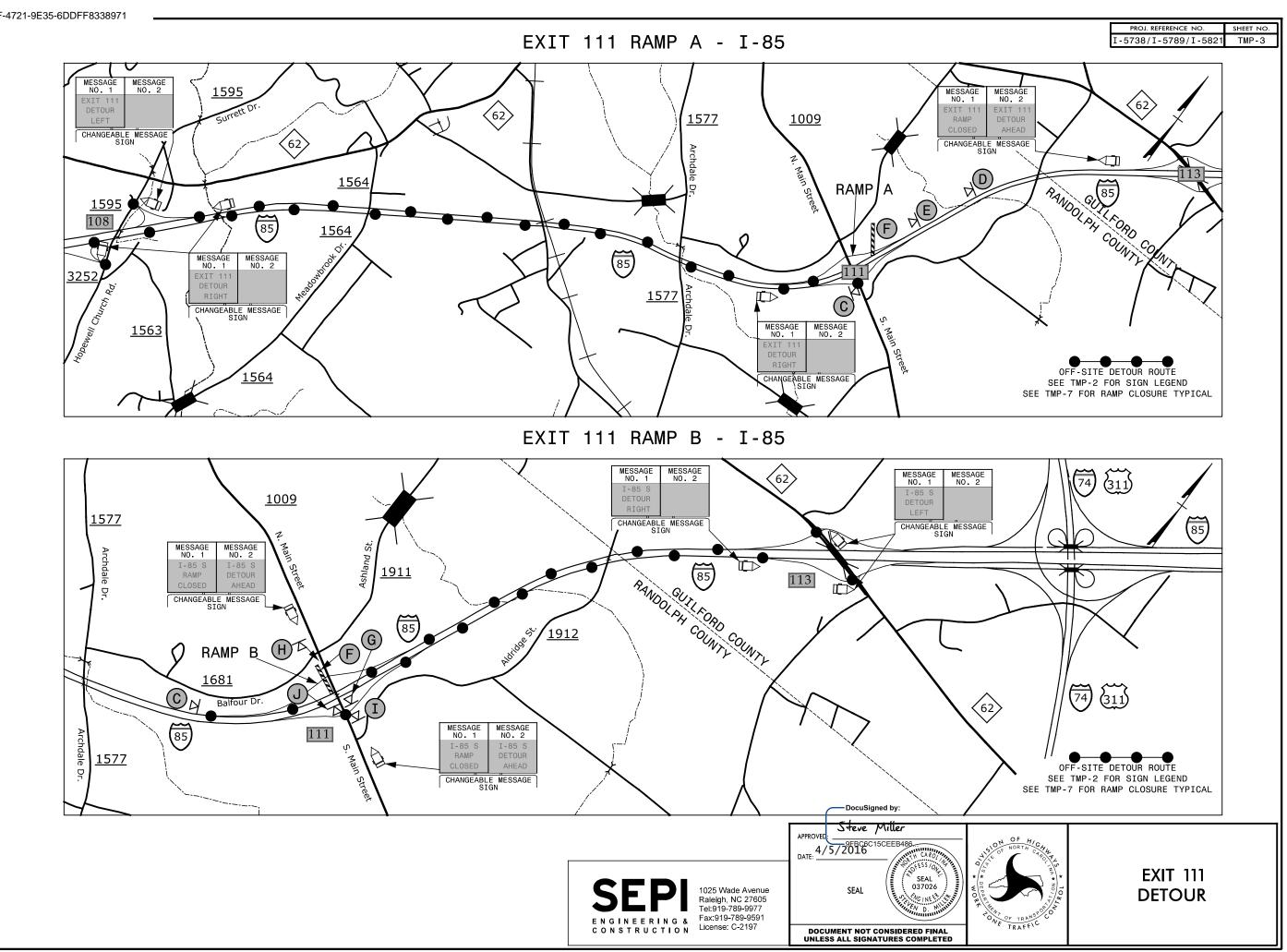


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I-5738/I-5789/I-5821	TMP-2

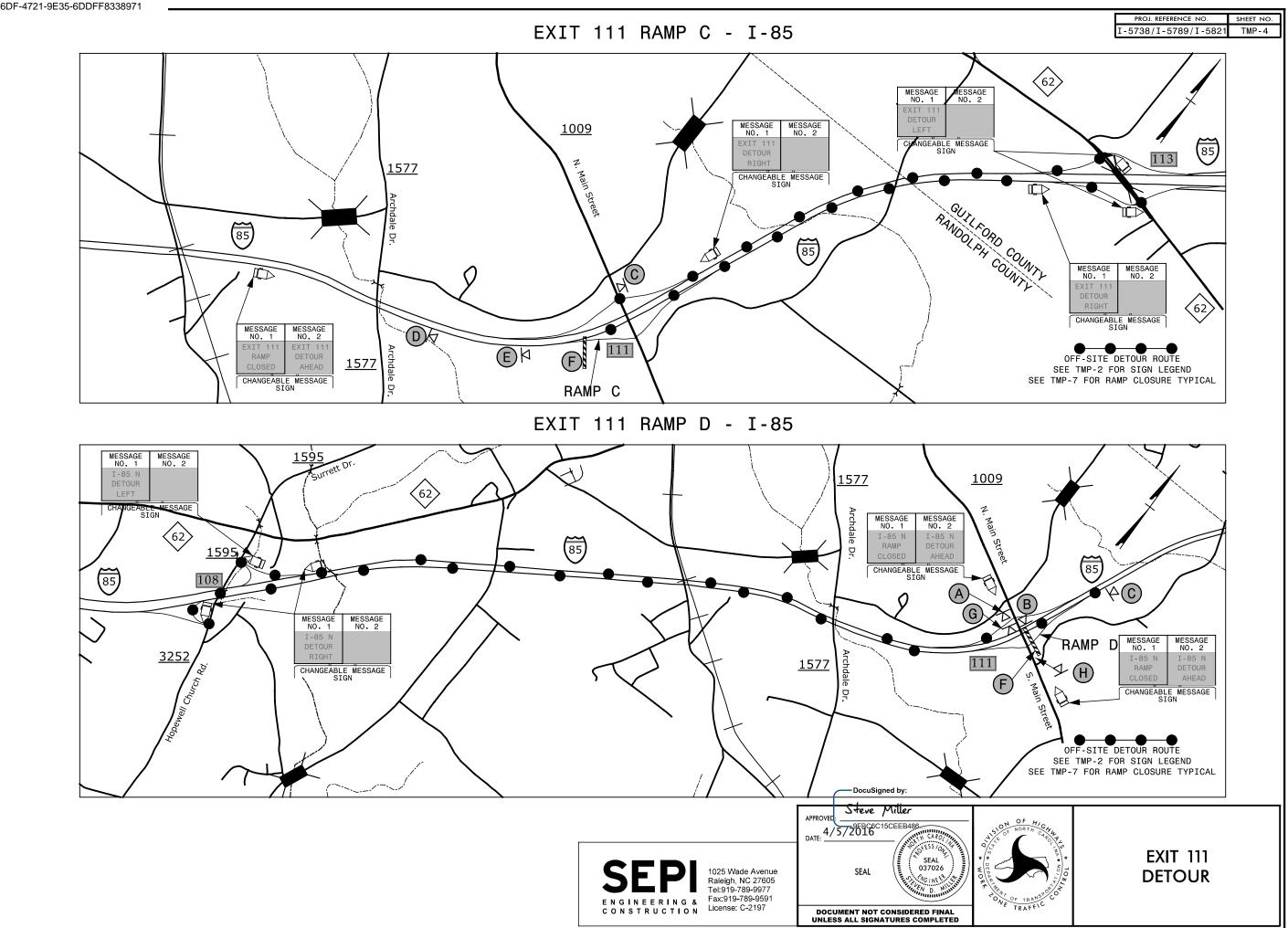




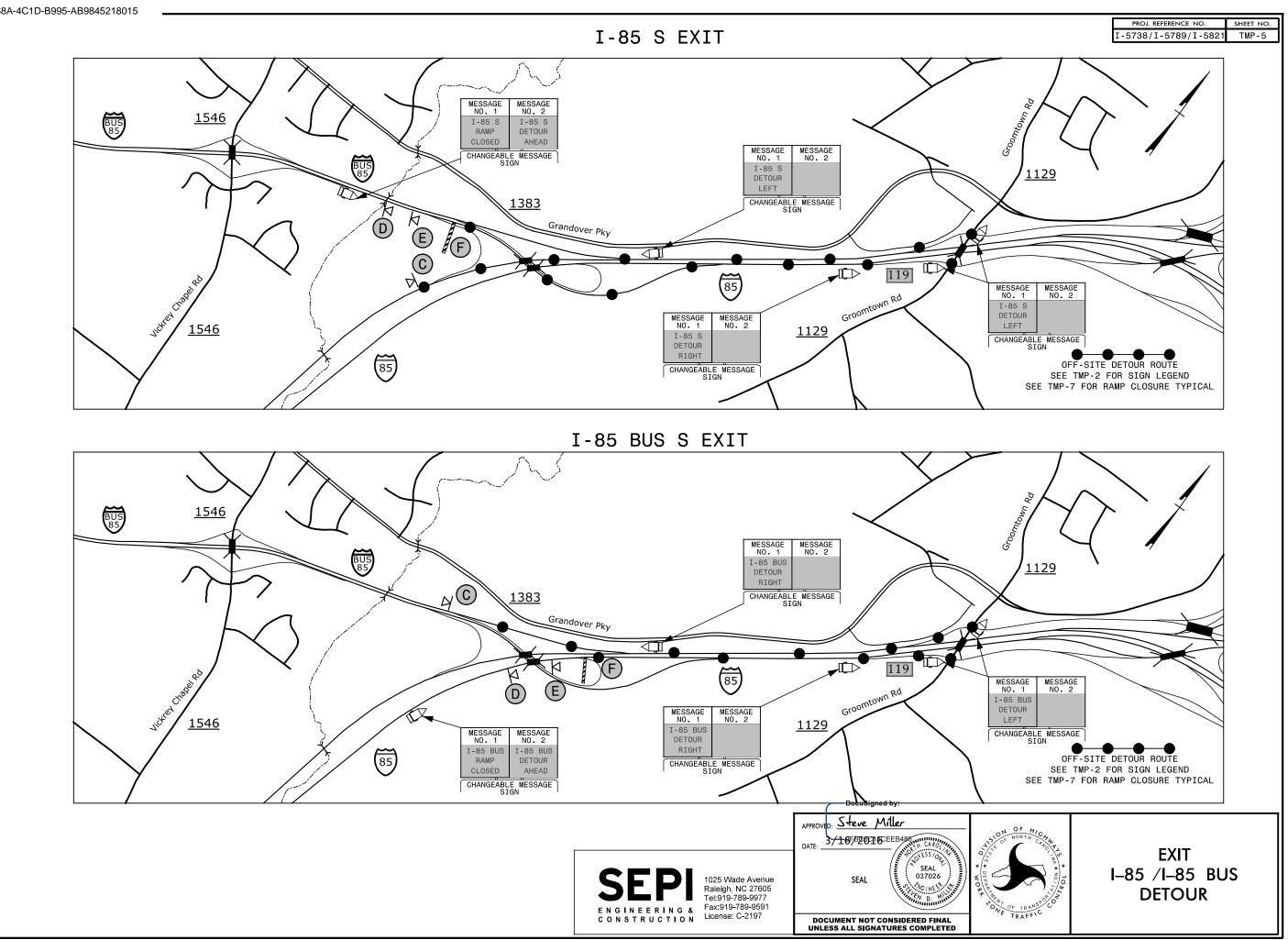
SIGN LEGEND



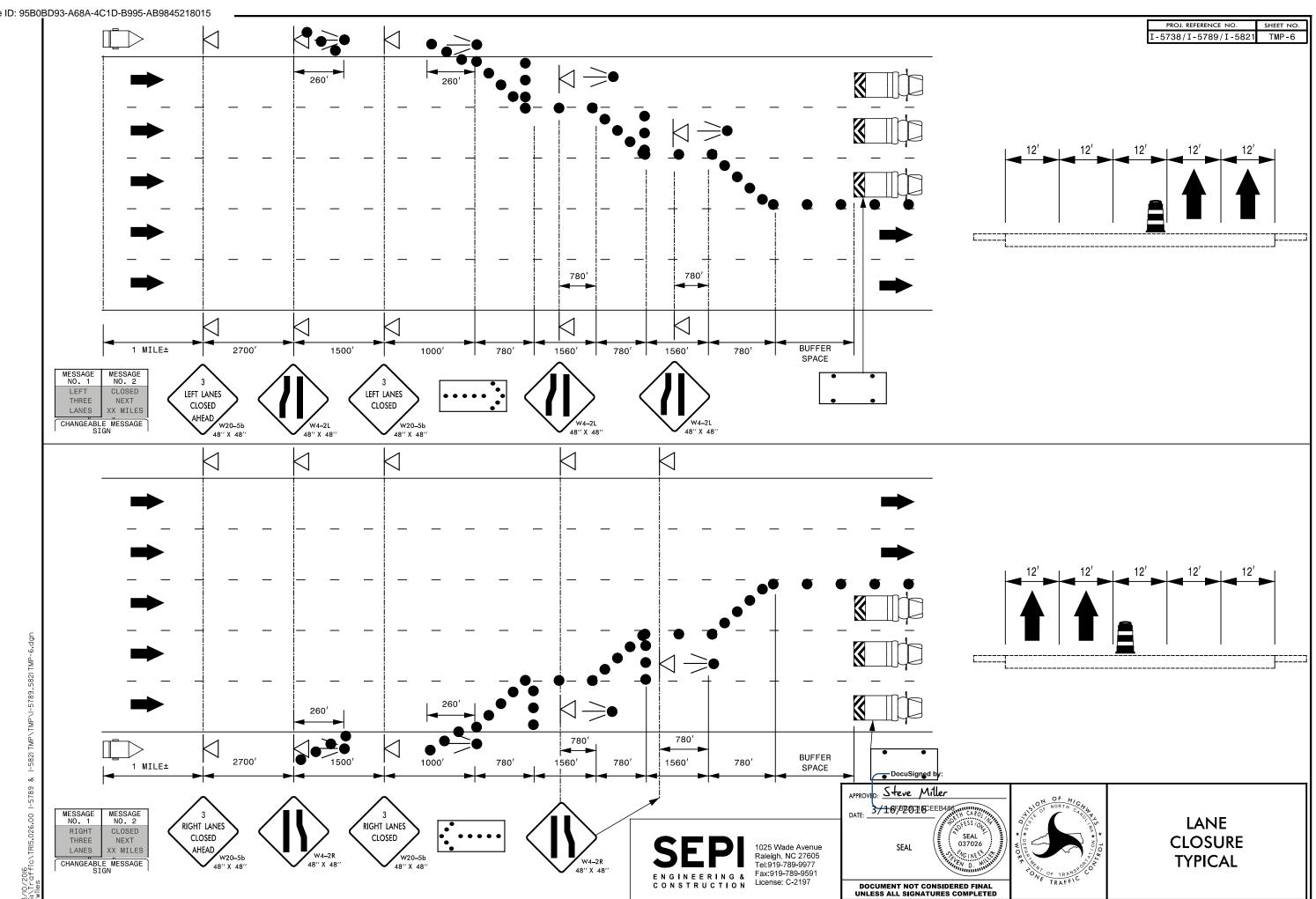
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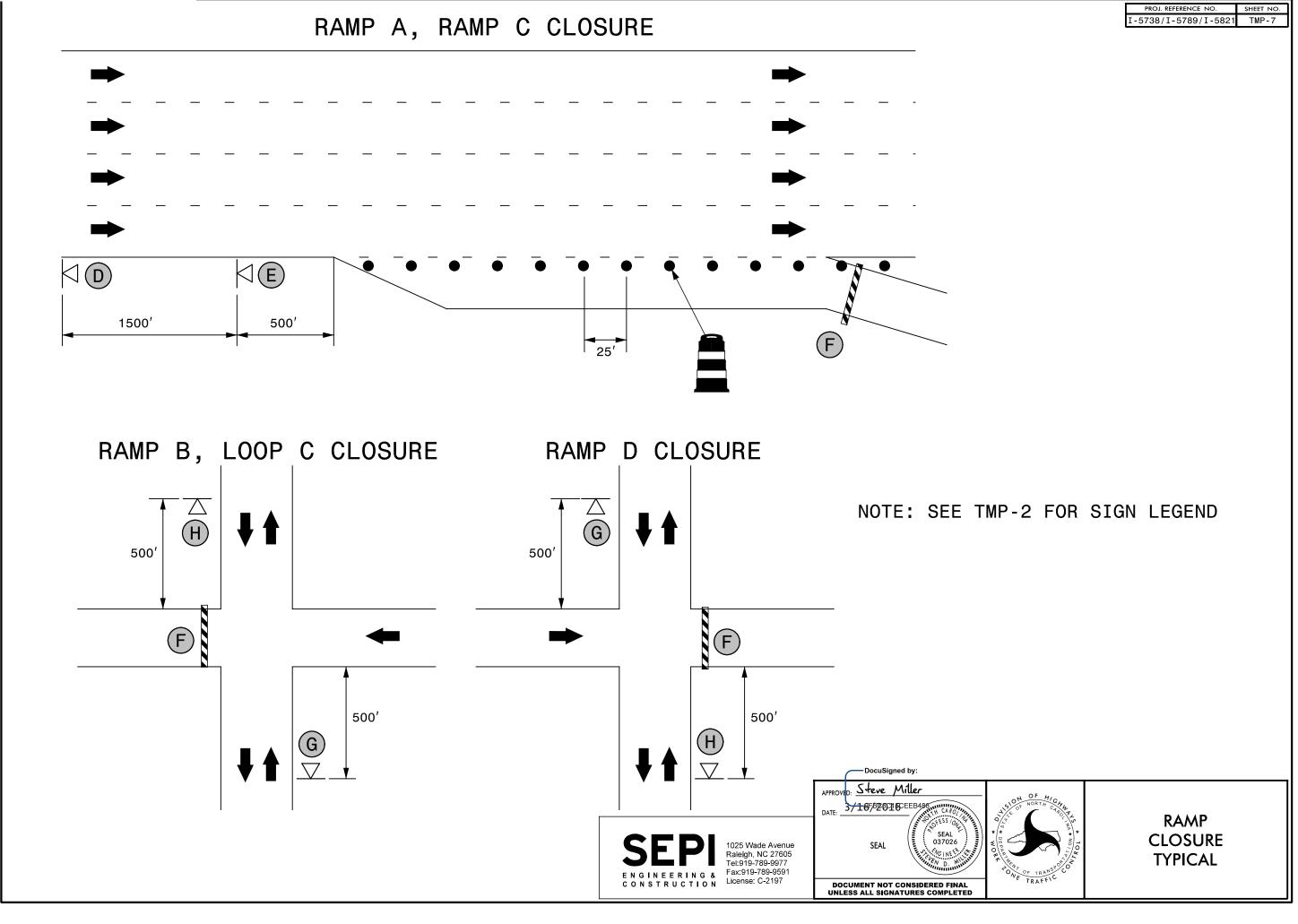
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