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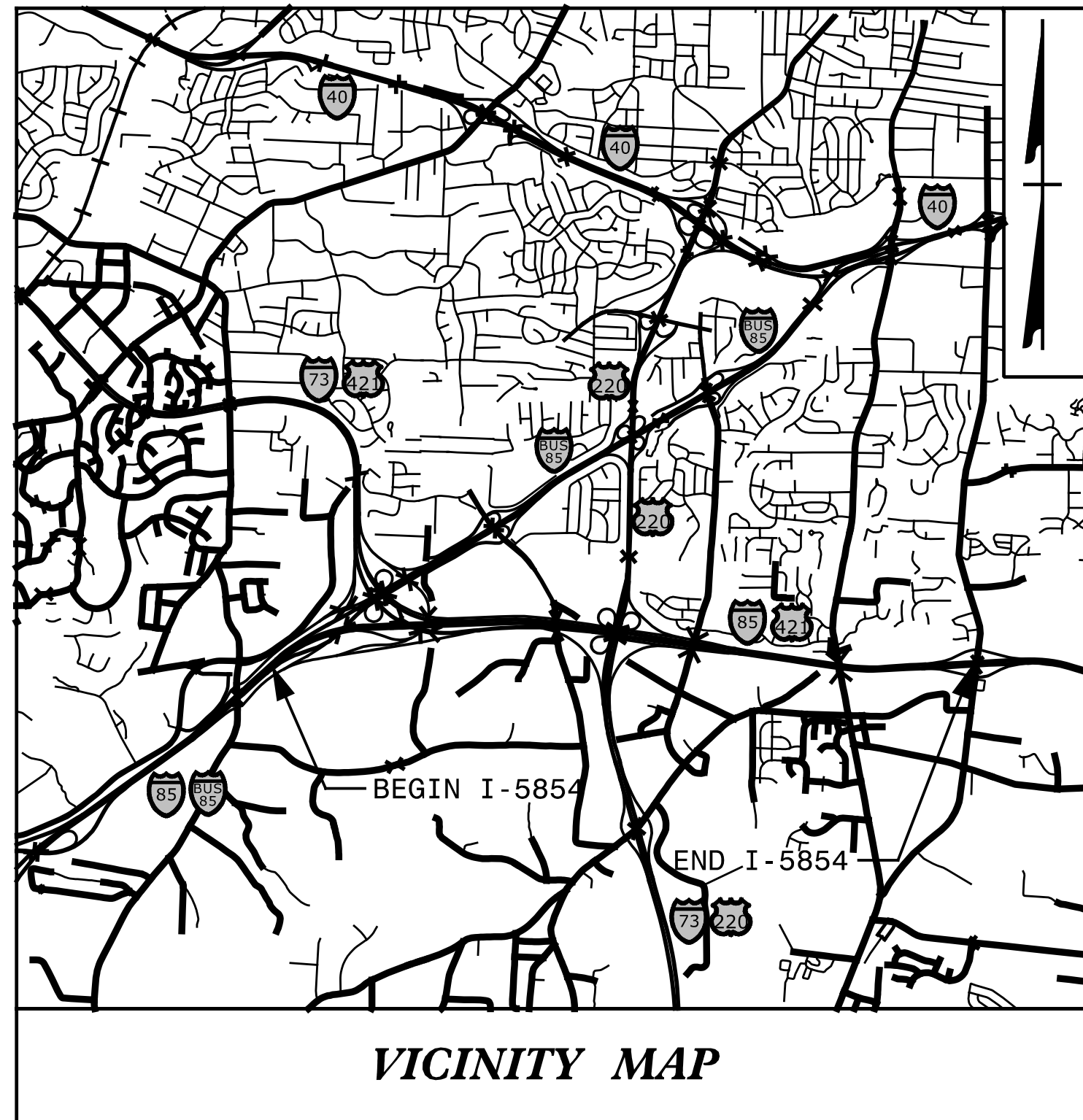
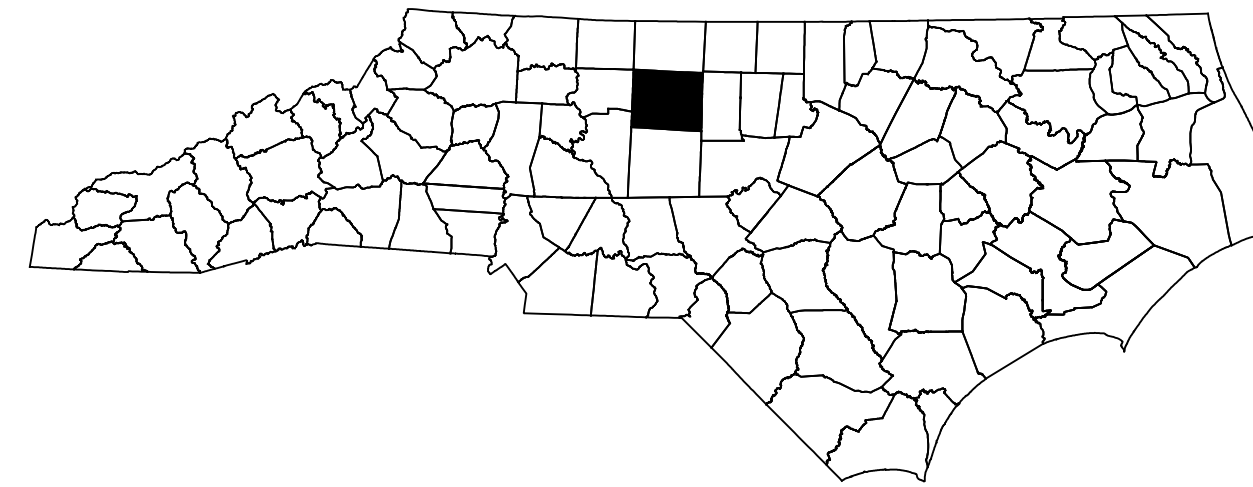
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

GUILFORD COUNTY



**LOCATION: I-85 FROM 0.3 MILE NORTH OF BUSINESS I-85
TO SR 3300 (S ELM EUGENE ST)**

TYPE OF WORK: PAVEMENT REHABILITATION

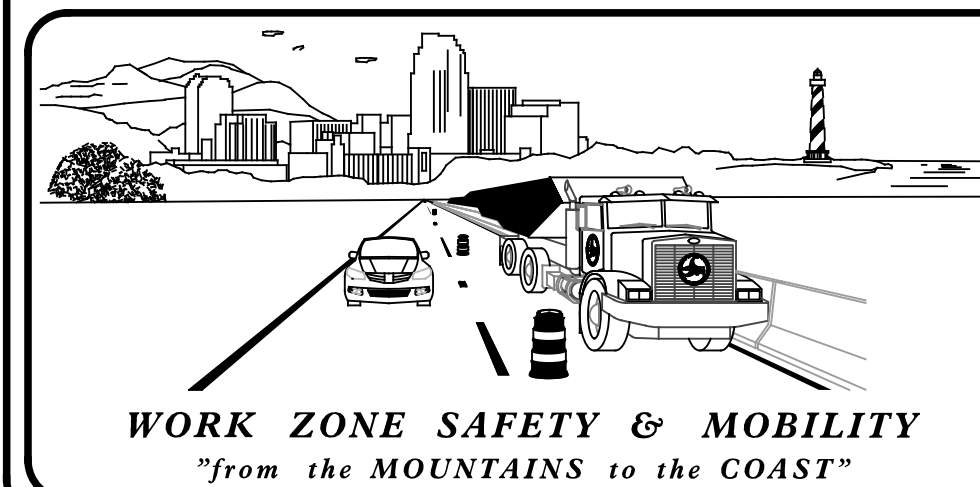
INDEX OF SHEETS

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TMP-10	LANE CLOSURE TYPICAL
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SHEET NO.
TMP-1

I-5854

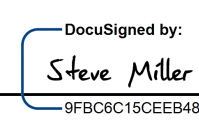
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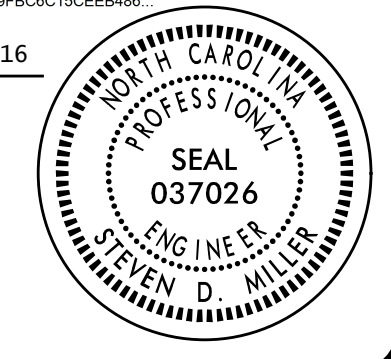
N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
 1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
 750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
 PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
 D. W. BISSETTE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
 H. SHYU, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
 TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: 
 DATE: 6/13/2016

SEAL



TIP PROJECT:

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:

<u>STD. NO.</u>	<u>TITLE</u>
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
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 RAMP
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

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

WORK AREA

REMOVAL

USER DEFINED (IF NEEDED)

USER DEFINED (IF NEEDED)

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

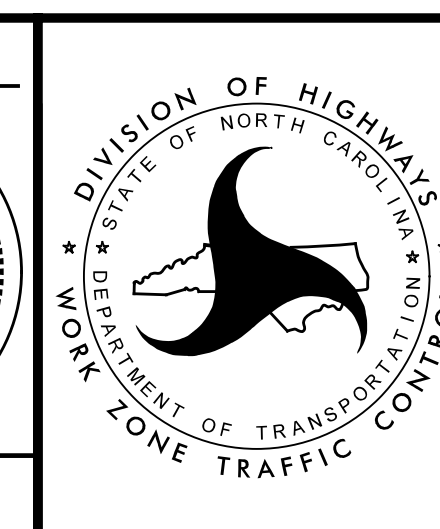
PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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APPROVED:
DATE: 6/13/2016
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ROADWAY STANDARD DRAWINGS & LEGEND

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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 ONE TRAVEL LANE IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85, I-85 BUSINESS, AND MULTI-LANE RAMP AND LOOPS	MONDAY TO SUNDAY FROM 6:00 A.M. TO 8:00 P.M.

B) DO NOT CLOSE OR NARROW TWO TRAVEL LANES IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85, I-85 BUSINESS, AND MULTI-LANE RAMP AND LOOPS	MONDAY TO SUNDAY FROM 6:00 A.M. TO 10:00 P.M.

C) DO NOT CLOSE OR NARROW THREE TRAVEL LANES IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85, I-85 BUSINESS, AND MULTI-LANE RAMP AND LOOPS	MONDAY THRU SUNDAY FROM 6:00 A.M. TO 12:00 A.M. (MIDNIGHT)

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

ROAD NAME
I-85 AND I-85 BUSINESS

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 6:00 A.M. DECEMBER 31ST TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 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 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR THE CITY OF HIGH POINT FURNITURE MARKET, BETWEEN THE HOURS OF 6:00 A.M. THE MONDAY THAT THE MARKET BEGINS AND 8:00 P.M. THE FRIDAY THAT THE MARKET ENDS.
10. FOR ANY NASCAR RACE AT THE CHARLOTTE MOTOR SPEEDWAY, BETWEEN THE HOURS OF 6:00 A.M. THE WEDNESDAY BEFORE THE FIRST TRACK EVENT AND 8:00 P.M. THE DAY AFTER THE LAST TRACK EVENT.
11. FOR THE WYNDHAM GOLF TOURNAMENT, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF THE TOURNAMENT AND 8:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF THE TOURNAMENT.

E) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
SINGLE LANE RAMP AND LOOPS	MONDAY TO SUNDAY 6:00 A.M. TO 12:00 A.M. (MIDNIGHT)

LANE AND SHOULDER CLOSURE REQUIREMENTS

- F) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- I) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- J) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- K) 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.

L) 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 HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

M) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- N) INSTALL ADVANCE WORK ZONE WARNING SIGNS NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- O) 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.

P) 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.

Q) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- R) 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.
- S) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

V) 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.

W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

X) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

Y) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER

Z) CONTRACTOR SHALL COORDINATE WORK AND LANE CLOSURES FOR THIS PROJECT (I-5854) WITH PROJECT I-5854A

6/30/2016 G:\Traffic\TR16.006.00 NCDOT 2016 Traffic LSA\TR16.006.04 (I-5854)\I-5854 TMP-1B.dgn Miller

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DocuSigned by:
Steve Miller

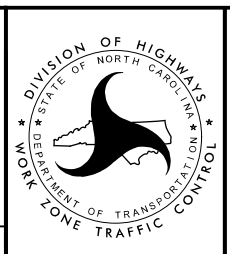
APPROVED: *Steve Miller*
DATE: 6/30/2016

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STATE OF NORTH CAROLINA
PROFESSIONAL ENGINEER
STEVEN D. MILLER
037026

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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, GUILFORD COUNTY EMERGENCY SERVICES, 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: USING RSD 1101.02 SHEETS 4, 8, 9, AND 10 OF 15, COMPLETE PAVEMENT REHABILITATION OPERATIONS FOR THE ESTABLISHED WORK AREA, PLACING TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS NECESSARY. INTERCHANGE RAMPS AND LOOPS MAY BE CLOSED USING RSD 1101.03 SHEETS 1 AND 2 OF 9. SEE TMP-2 THROUGH TMP-11 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.

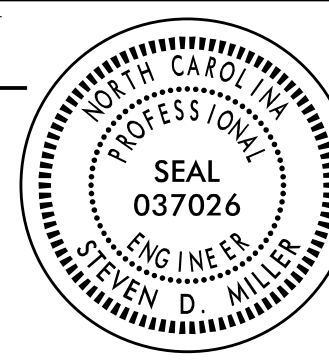
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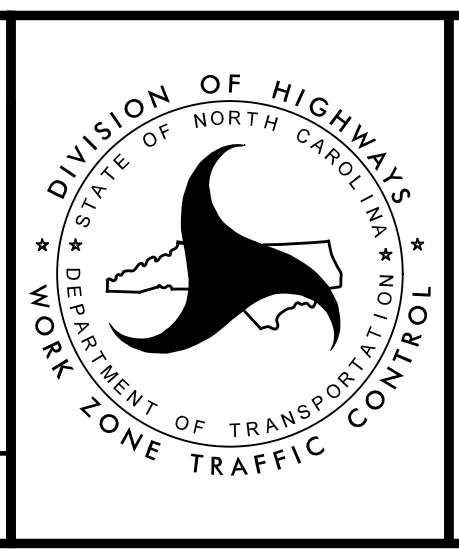
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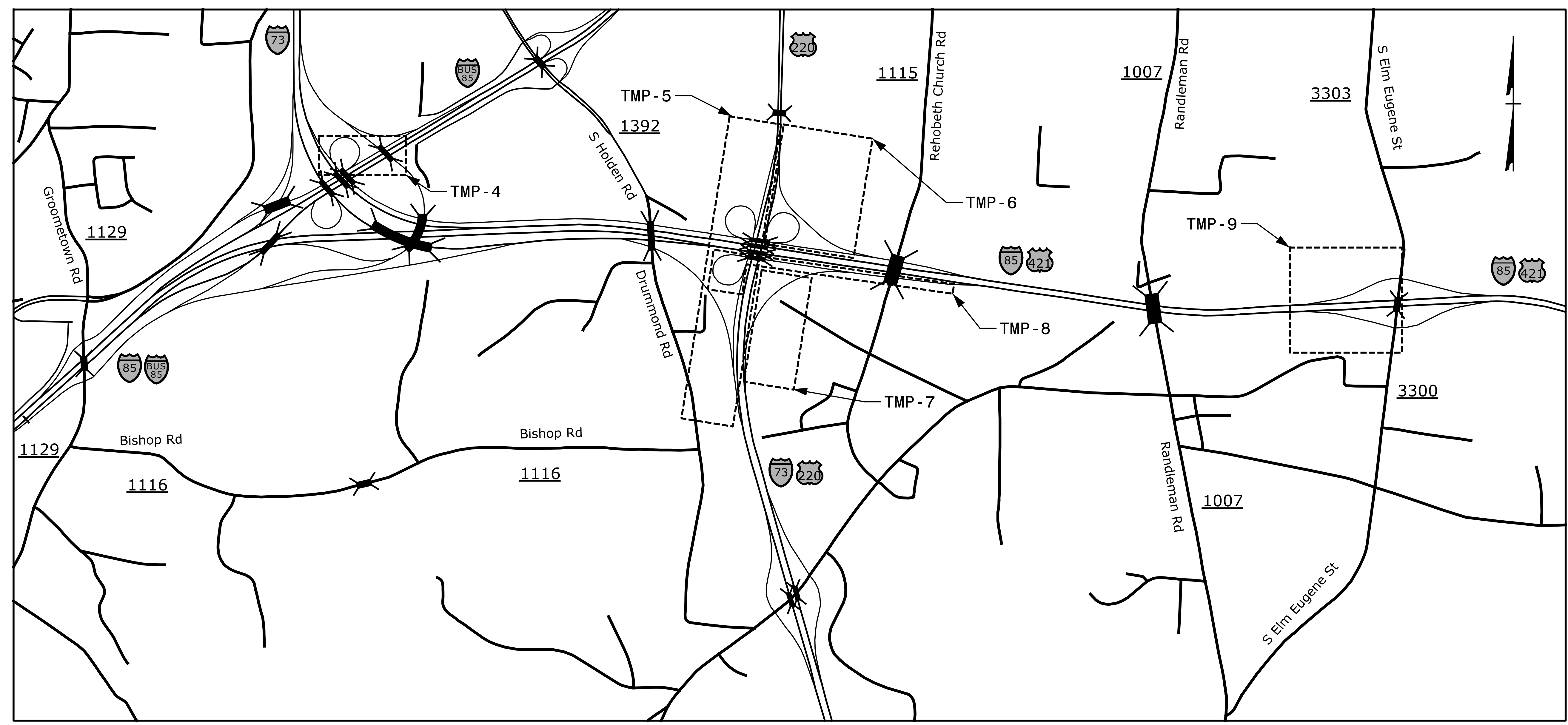
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TRANSPORTATION OPERATIONS PLAN



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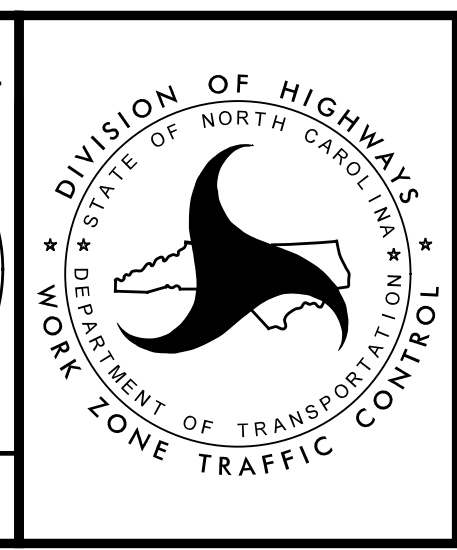
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SHEET OVERVIEW

DETOUR M4-8 24" X 12"
 SOUTH M3-3 24" X 12"
 INTERSTATE 85 M1-1
 M6-1 L 21" X 15"
A

DETOUR M4-8 24" X 12"
 SOUTH M3-3 24" X 12"
 INTERSTATE 85 M1-1
 M6-1 L 21" X 15"
B

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

RAMP CLOSED AHEAD W20-3 48" X 48"
D

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

R11-2 48" X 30"
 ROAD CLOSED
 DETOUR
 M4-10L 48" X 18"
 TYPE III BARRICADE
F

ROAD CLOSED W20-3 48" X 48"
 R3-2 24" X 24"
G

ROAD CLOSED W20-3 48" X 48"
 R3-1 24" X 24"
H

R11-2 48" X 30"
 ROAD CLOSED
 W1-6R 48" X 24"
 TYPE III BARRICADE
I

R11-2 48" X 30"
 ROAD CLOSED
 DETOUR
 M4-10R 48" X 18"
 TYPE III BARRICADE
J

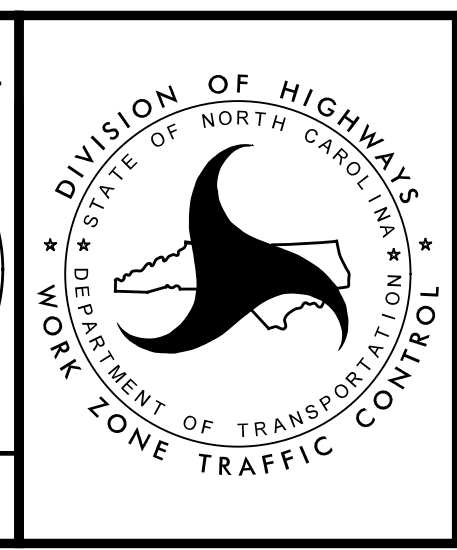
DETOUR M4-8 24" X 12"
 NORTH M3-1 24" X 12"
 INTERSTATE 85 M1-1
 M6-1 L 21" X 15"
K

DETOUR M4-8 24" X 12"
 M6-1 L 21" X 15"
L

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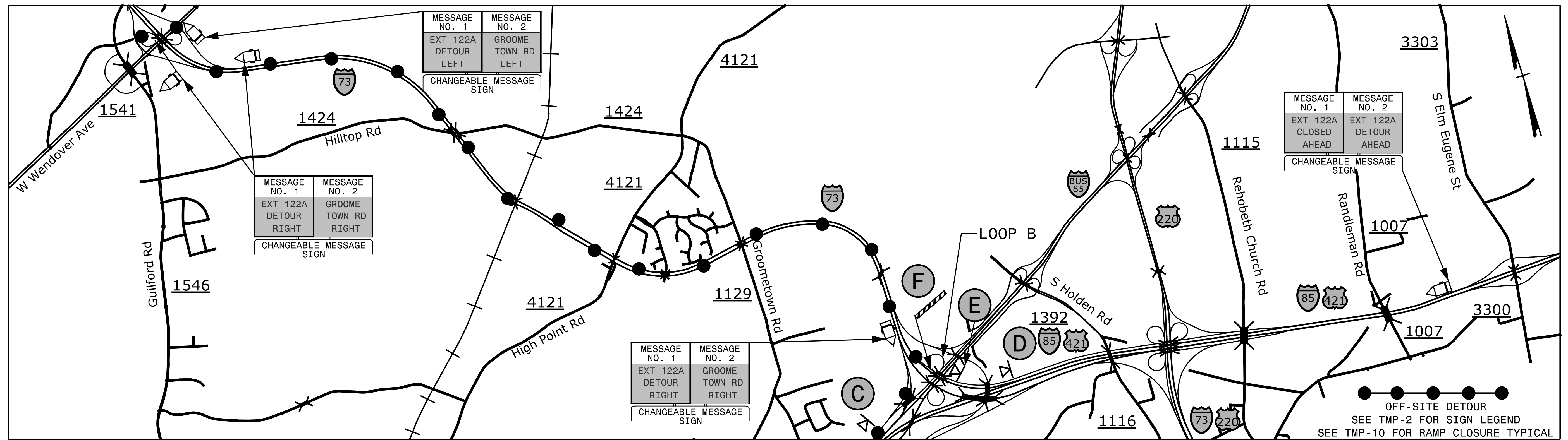
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 037026
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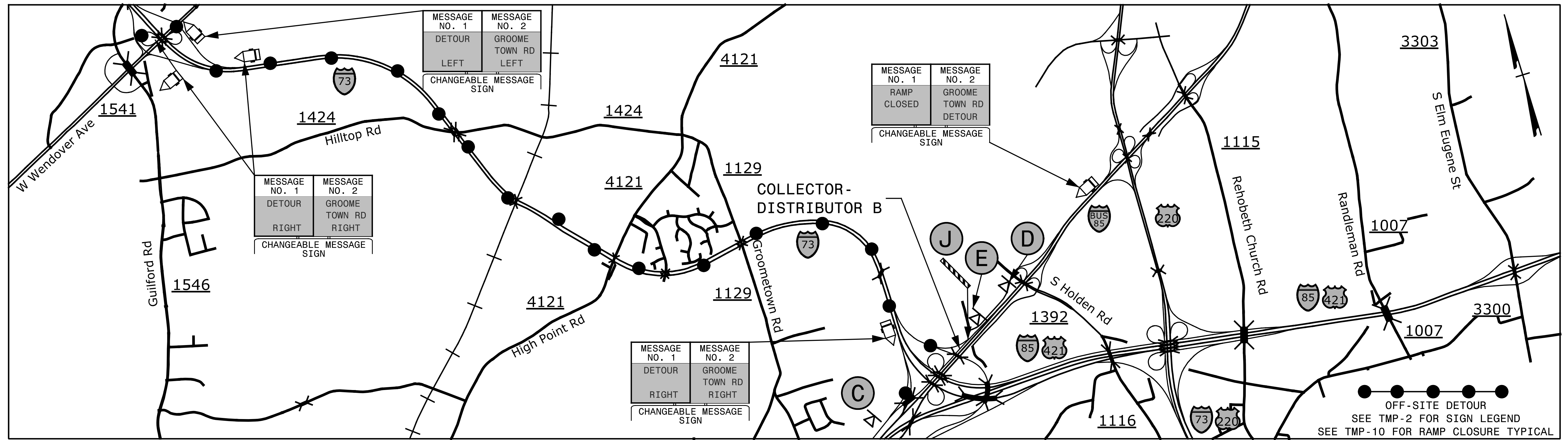


SIGN LEGEND

I-85 EXIT 122A LOOP B



GROOMETOWN RD



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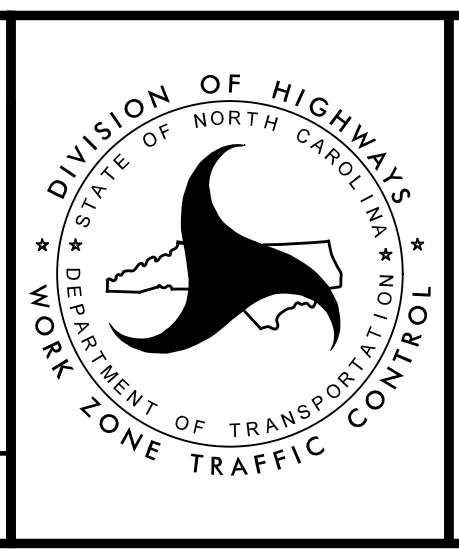
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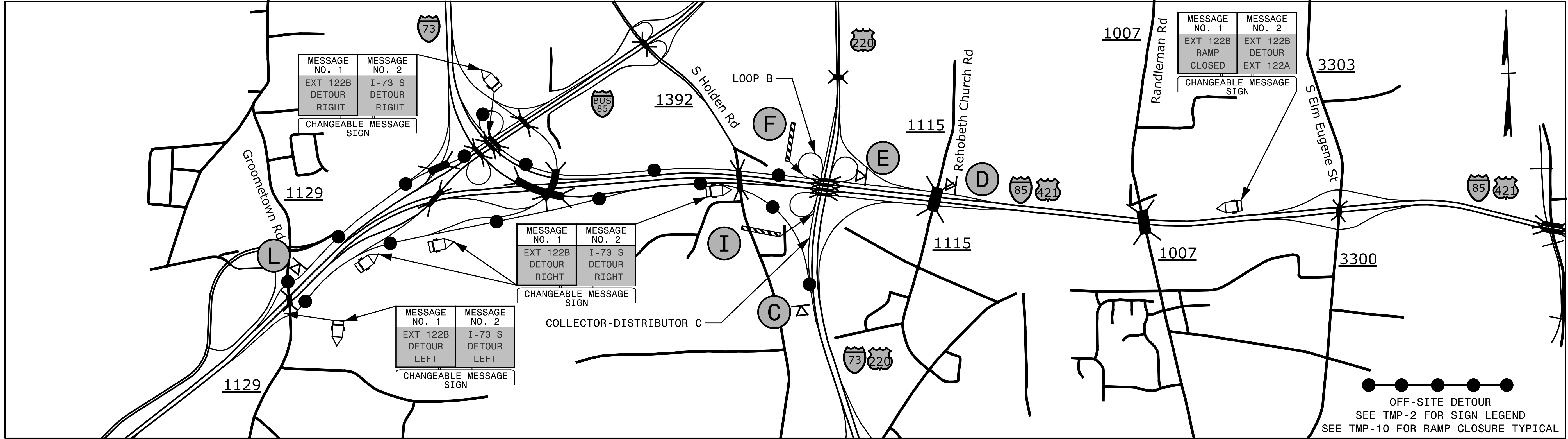
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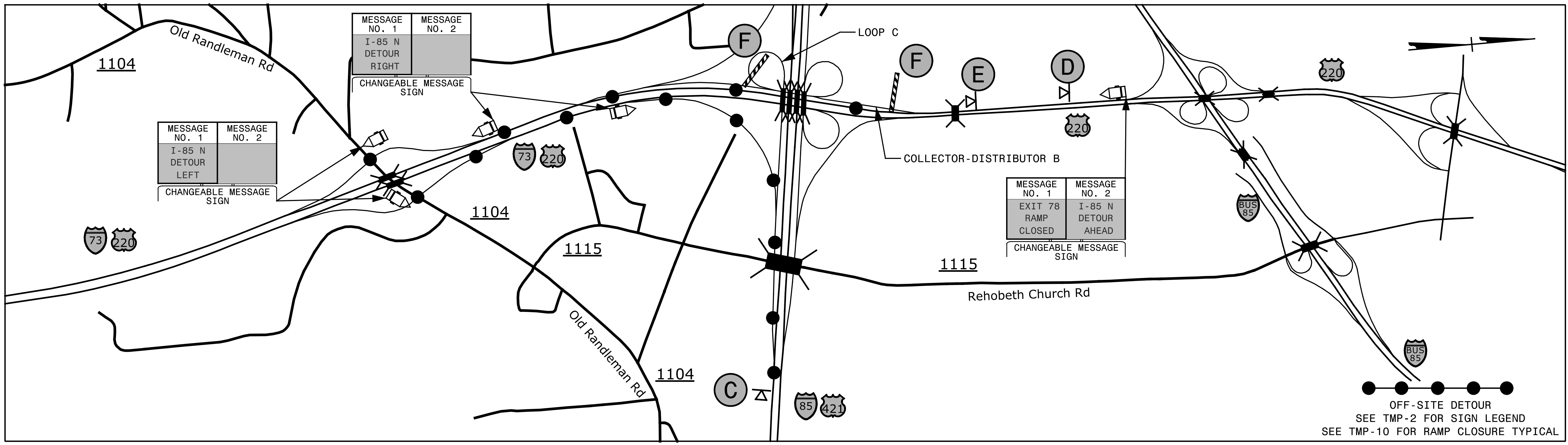
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

**OFF-SITE
DETOUR
DETAIL**

I-85 EXIT 122B LOOP B



US 220 EXIT 78 LOOP C



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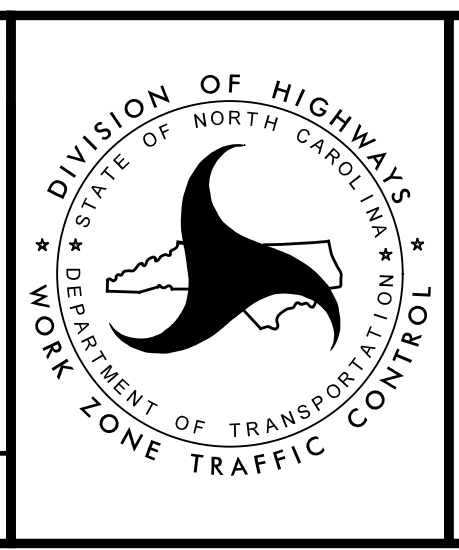
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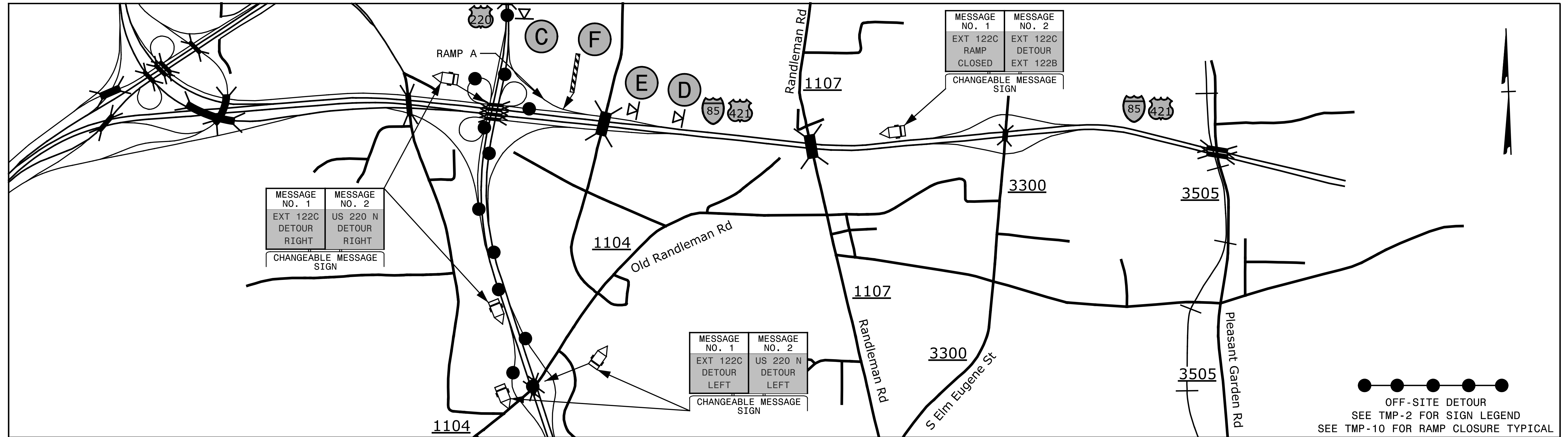
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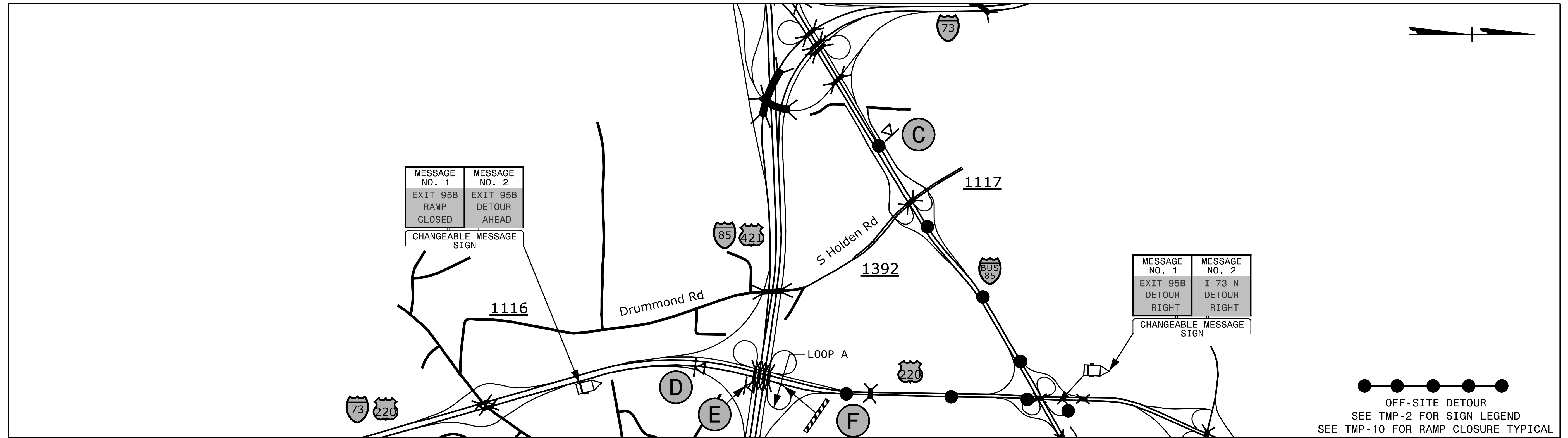
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

**OFF-SITE
DETOUR
DETAIL**

I-85 EXIT 122C RAMP A



I-73 EXIT 95B LOOP A



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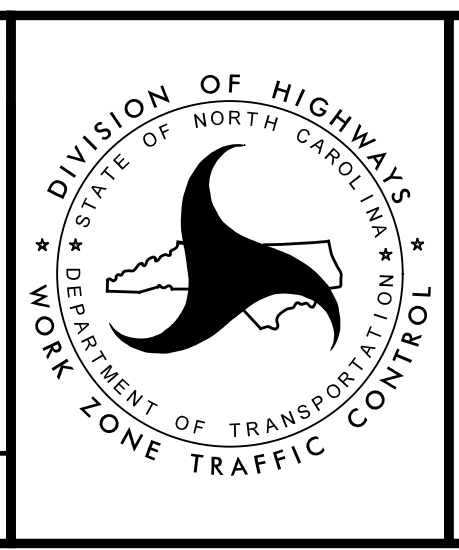
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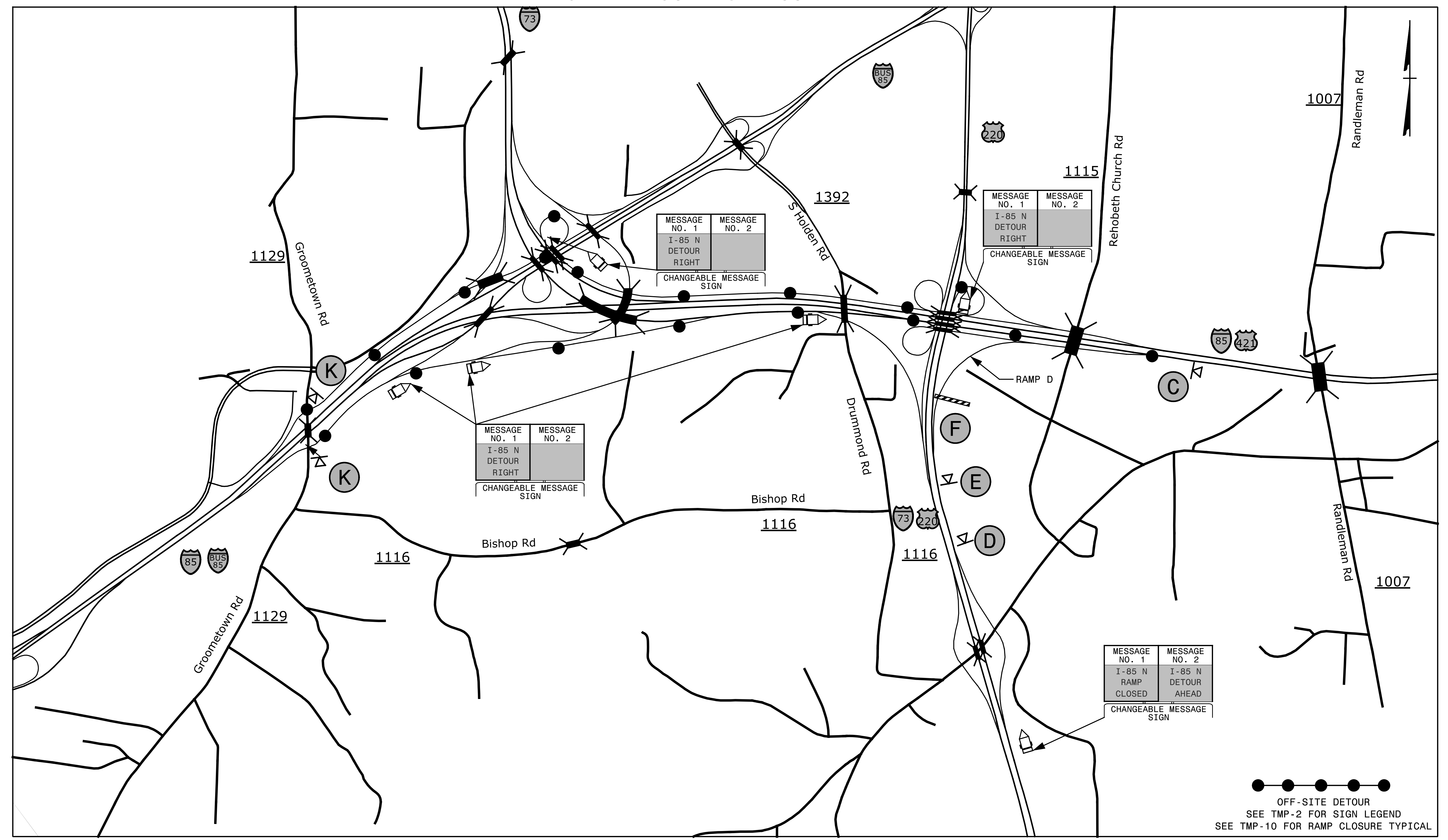


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**OFF-SITE
DETOUR
DETAIL**

I-73 EXIT 95A TO I-85 N RAMP D

PROJ. REFERENCE NO.	SHEET NO.
I-5854	TMP-7



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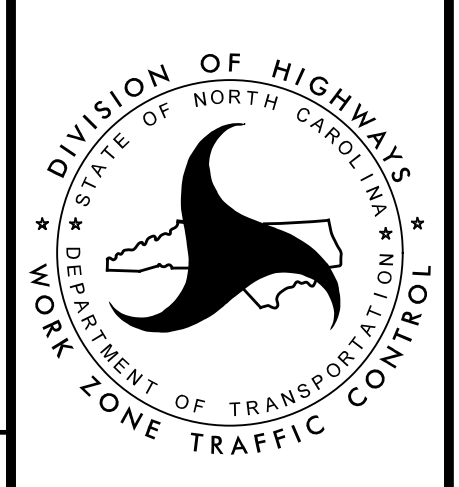
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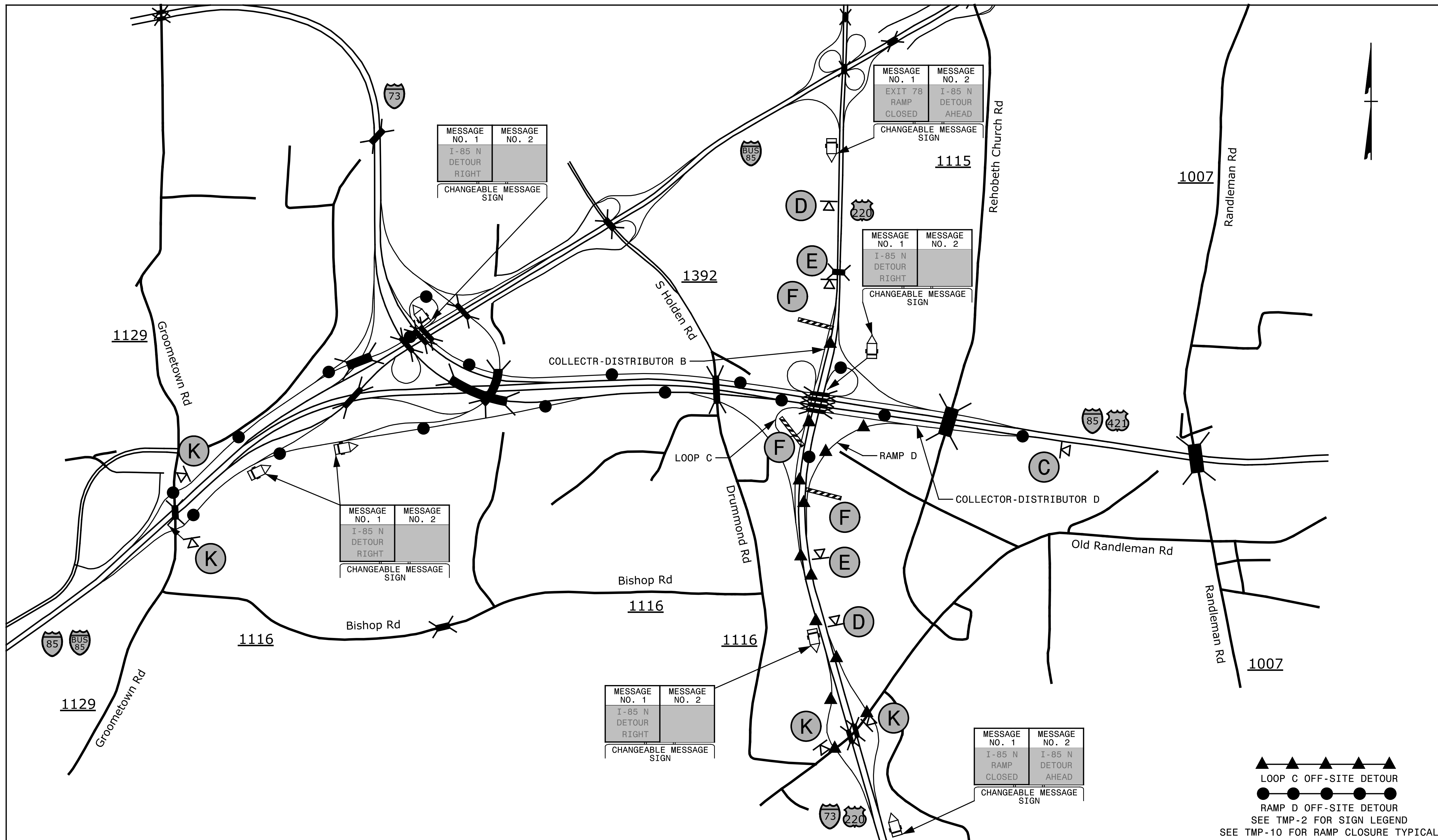


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**OFF-SITE
DETOUR
DETAIL**

I-73 EXIT 95A TO I-85 N RAMP D AND LOOP C

PROJ. REFERENCE NO.	SHEET NO.
I-5854	TMP-8



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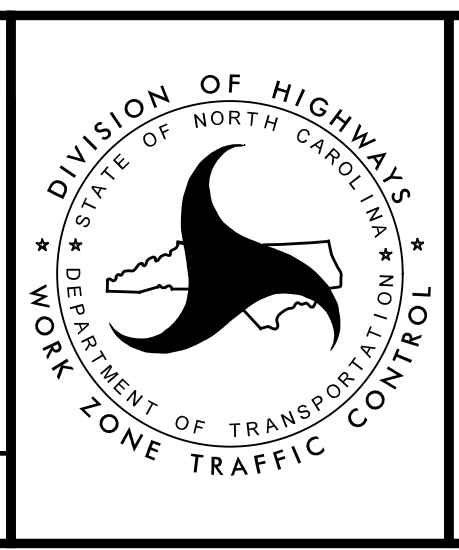
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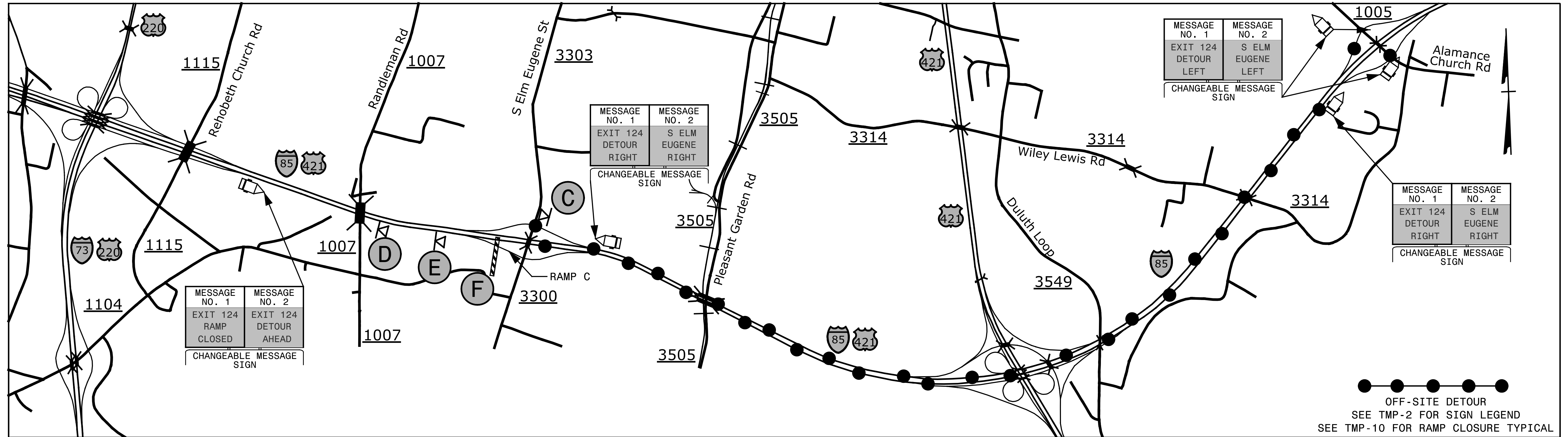
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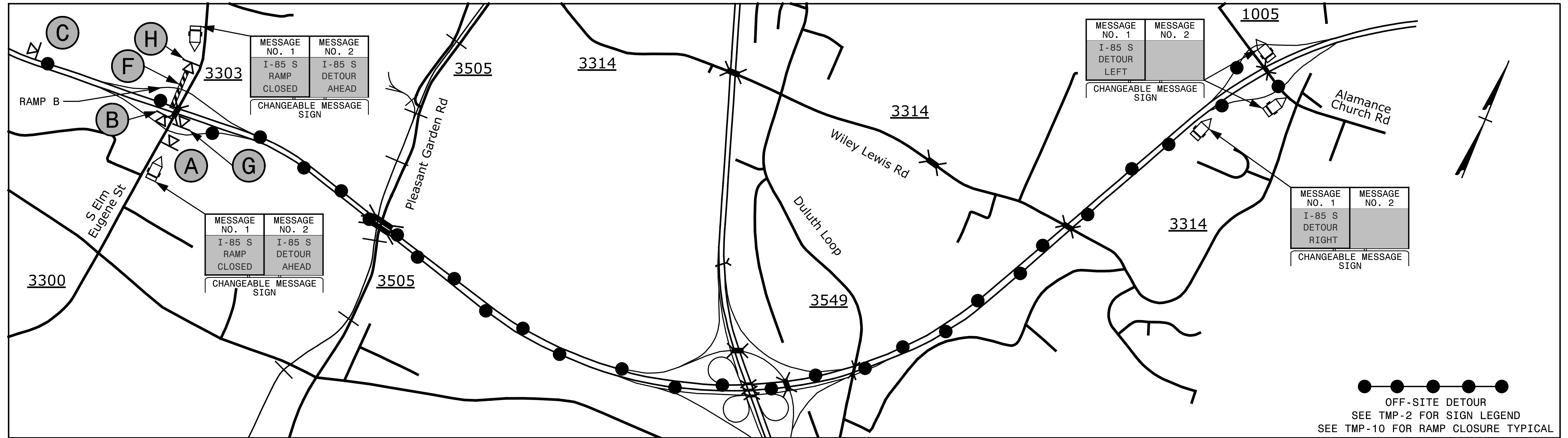
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**OFF-SITE
 DETOUR DETAIL**

EXIT 124 S ELM-EUGENE ST RAMP C



S ELM-EUGENE ST I-85 S RAMP B



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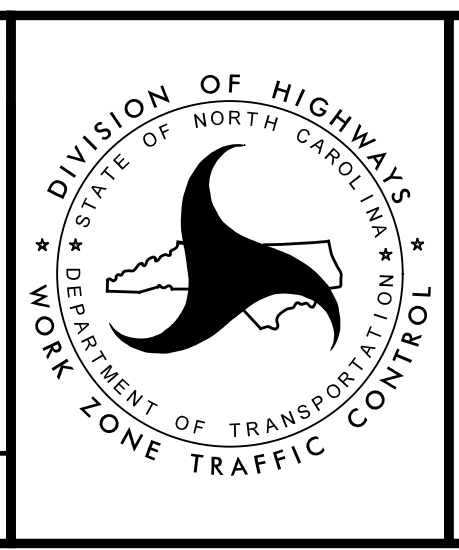
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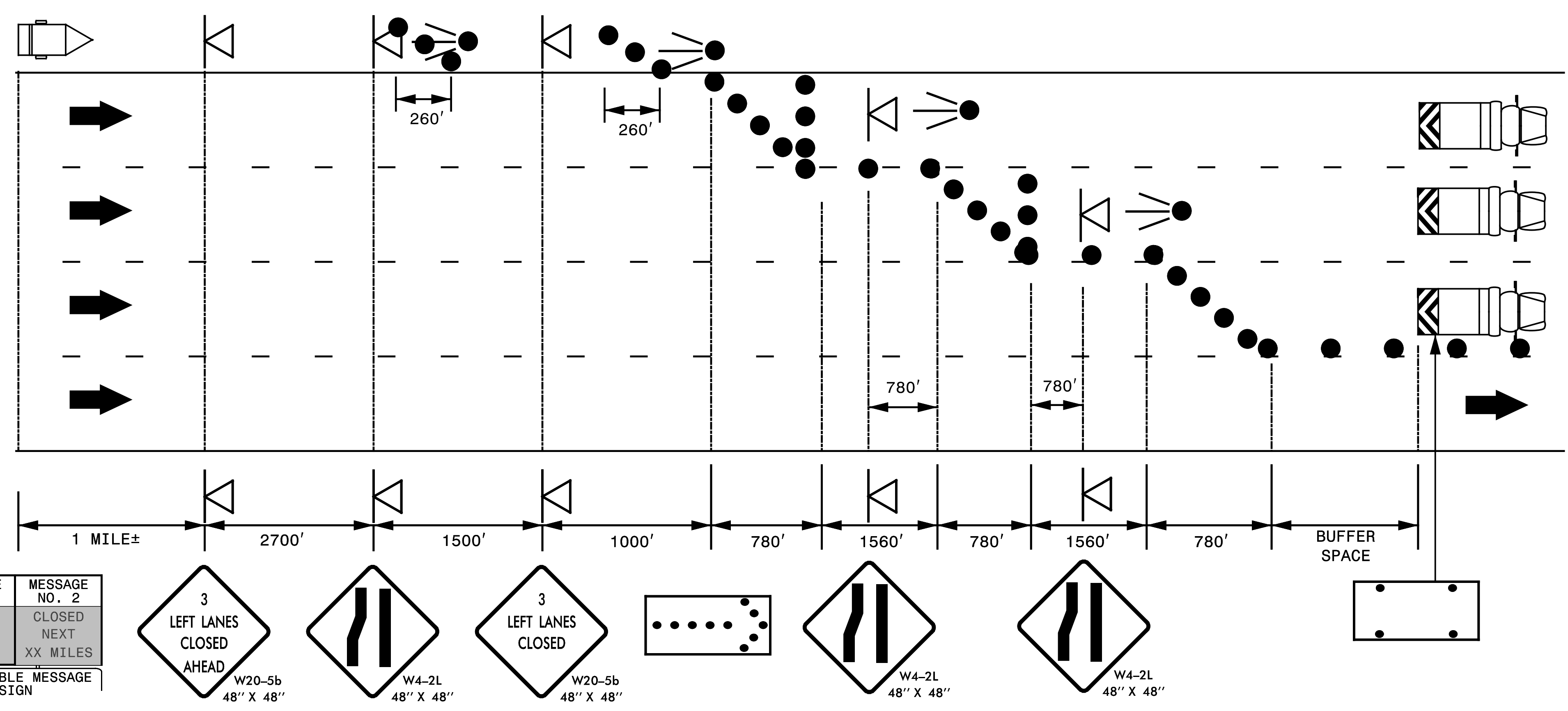
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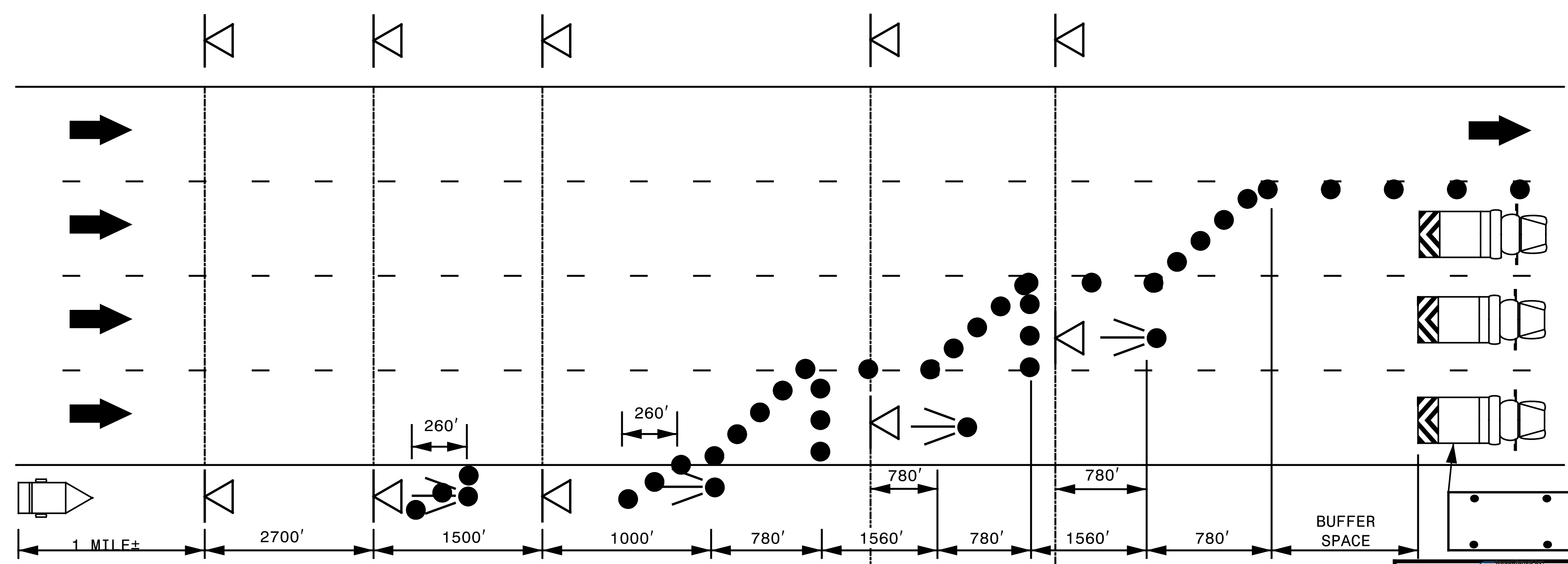
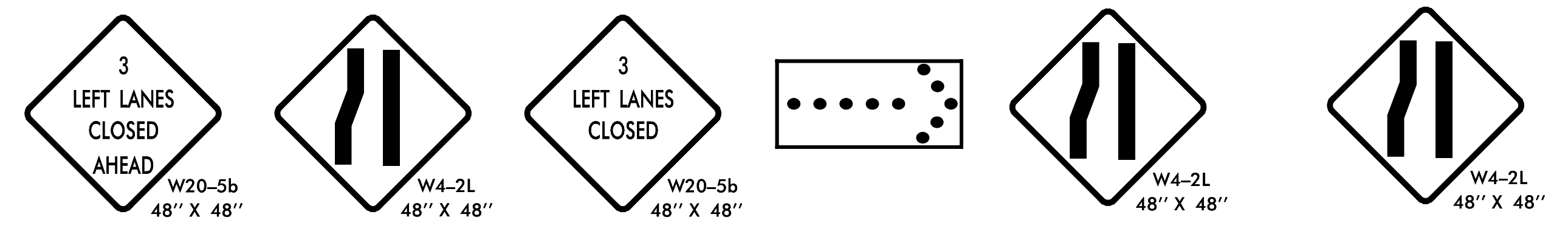


OFF-SITE
DETOUR
DETAIL

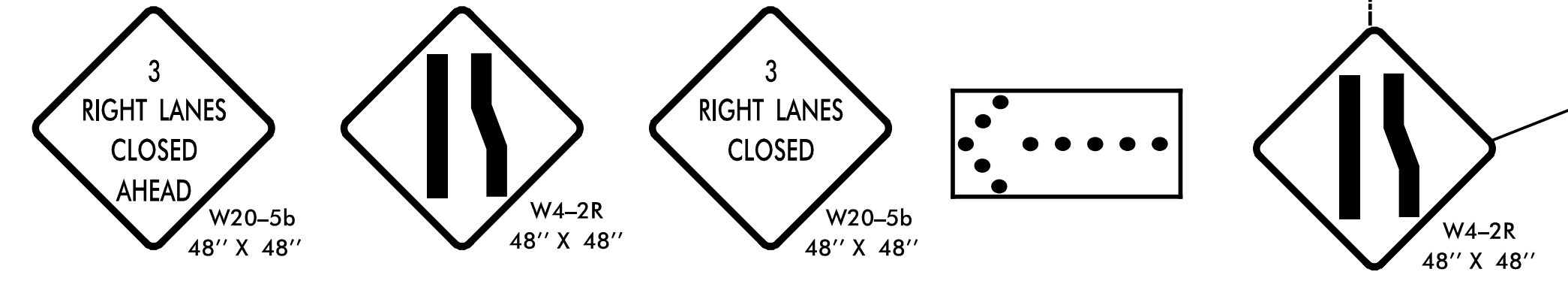
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MESSAGE NO. 1	MESSAGE NO. 2
LEFT THREE LANES	CLOSED NEXT XX MILES
CHANGEABLE MESSAGE SIGN	



MESSAGE NO. 1	MESSAGE NO. 2
RIGHT THREE LANES	CLOSED NEXT XX MILES
CHANGEABLE MESSAGE SIGN	



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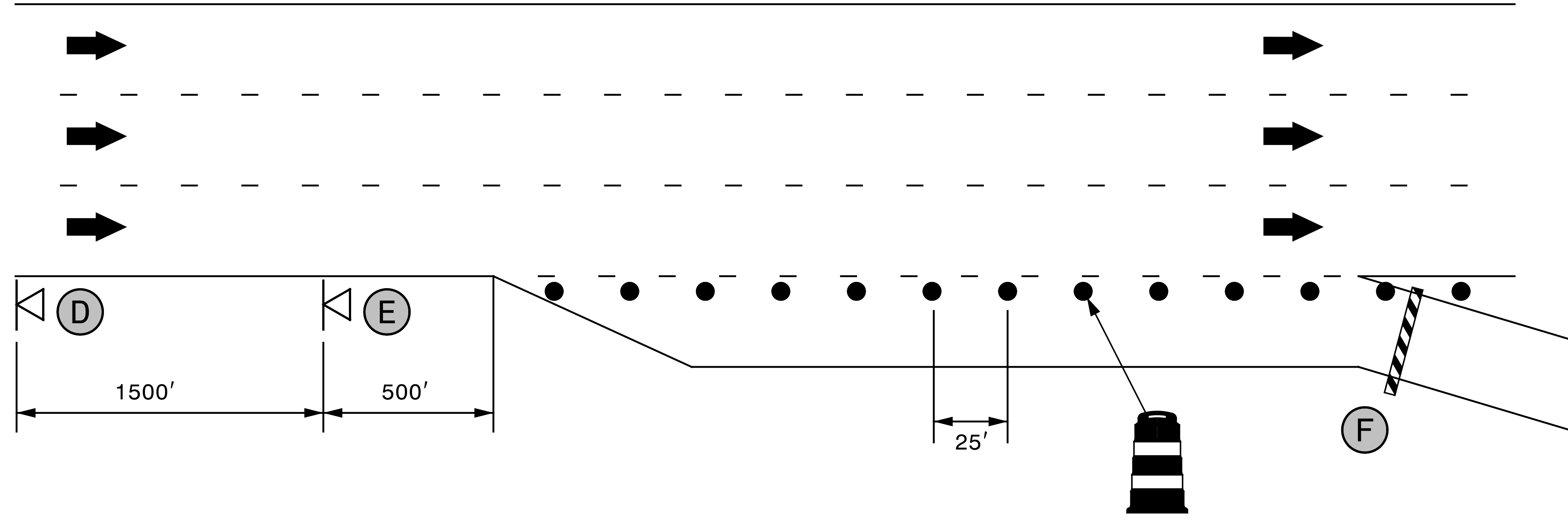
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037026
STEVEN D. MILLER
ENGINEER

LANE CLOSURE TYPICAL

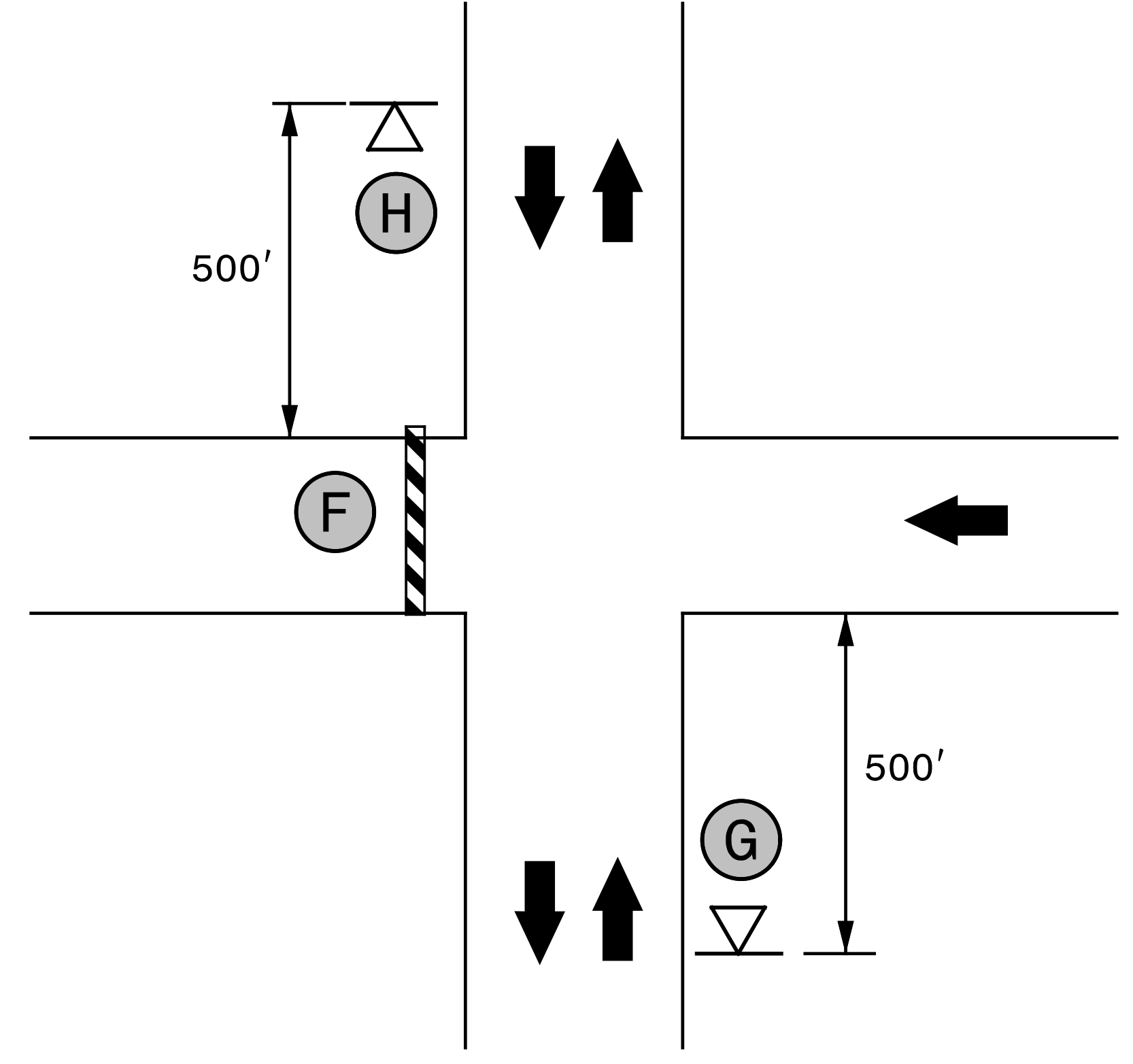
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RAMP A, C, AND LOOP CLOSURE

PROJ. REFERENCE NO.	SHEET NO.
I-5854	TMP-11



RAMP B CLOSURE



NOTE: SEE TMP-3 FOR SIGN LEGEND

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RAMP CLOSURE TYPICAL