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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN
CURRITUCK & DARE COUNTIES



LOCATION: BRIDGE 16 OVER CURRITUCK SOUND ON US 158
TYPE OF WORK: BRIDGE REHABILITATION

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY, INDEX OF SHEETS, AND LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS
TMP-1A	MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES
TMP-2	LEGEND, TEMPORARY PAVEMENT MARKING SCHEDULE AND PHASING
TMP-3 THRU TMP-8	TRAFFIC CONTROL DETAILS


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 JAN 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:


STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1145.01	BARRICADES
1165.01	WORK ZONE LIGHTING SYSTEMS AND TMA DELINATION
1180.01	SKINNY DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

H. SHYU, PE _____ TRAFFIC CONTROL PROJECT ENGINEER
R. B. EARLY, PE _____ QUALITY CONTROL ENGINEER
J. A. PHILLIPS _____ TRAFFIC CONTROL DESIGN ENGINEER

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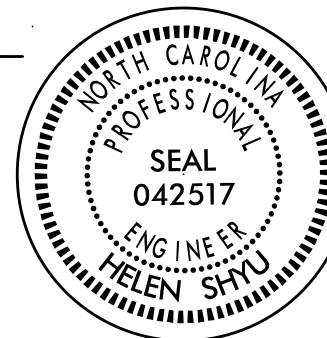


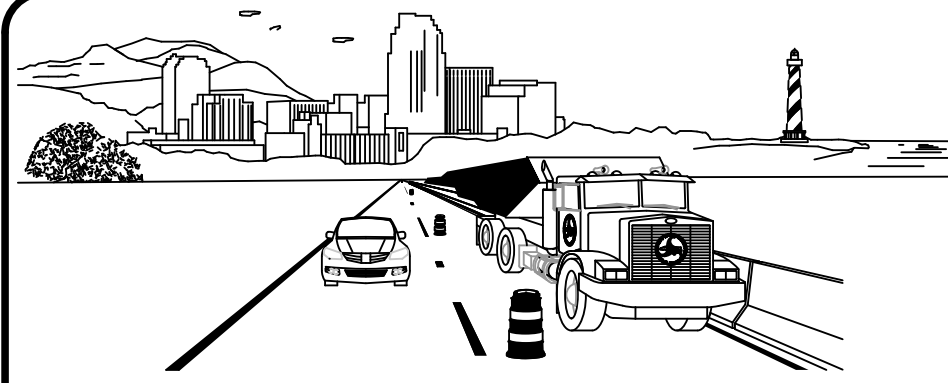
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343 E. Six Forks Road, Ste 200
Raleigh, North Carolina 27609
NC License No: C-1554

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DATE: 1/14/2016

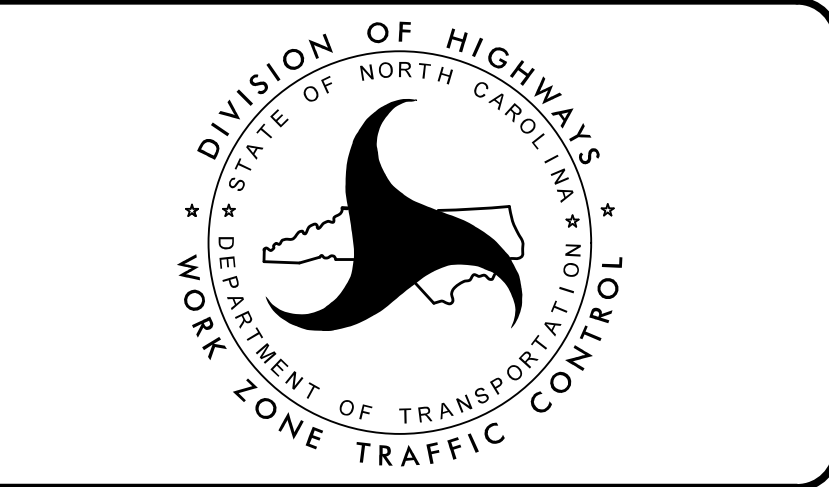
SEAL





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

N.C.D.O.T. WORK ZONE TRAFFIC CONTROL 1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561 750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY) PHONE: (919) 773-2800 FAX: (919) 771-2745	
J. S. BOURNE, P.E.	STATE TRAFFIC MANAGEMENT ENGINEER
J. S. KITE, P.E.	TRAFFIC CONTROL PROJECT ENGINEER
M. V. SPRINGER, P.E.	TRAFFIC CONTROL PROJECT DESIGN ENGINEER
S. B. JENNINGS	TRAFFIC CONTROL DESIGN ENGINEER



MANAGEMENT STRATEGIES

THE OBJECTIVE OF THIS PROJECT IS TO COMPLETE REHABILITATION TO THE WRIGHT MEMORIAL BRIDGE #16.

-AWAY FROM TRAFFIC, COMPLETE SUB-STRUCTURE REPAIR FOR BRIDGE #16. MATERIAL MAY BE DELIVERED TO BARGES FROM BRIDGE DECK UTILIZING LANE CLOSURE.

-DURING ONE OFF-SEASON, SHIFT TRAFFIC TO TWO-LANE, TWO-WAY PATTERN ON TO WRIGHT MEMORIAL BRIDGE #35. REHABILITATE BRIDGE #16 AND RETURN TRAFFIC TO FINAL TRAFFIC PATTERN.

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

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

TIME RESTRICTIONS

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

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
US 158 (-L-)	MONDAY THRU SUNDAY 7:00 AM - 7:00 PM

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

<u>ROAD NAME</u>
US 158 (-L-)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 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.
- FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- 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.

- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.

- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.

- 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.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- 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.
- 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.
- 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.

- 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 REMAINS WITHIN THE CLOSED TRAVEL LANE.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
- COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.
- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

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

PAVEMENT MARKINGS AND MARKERS

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

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
US 158	COLD APPLIED PLASTIC (TYPE 4- REMOVABLE TAPE)	TEMPORARY RAISED AND TUBULAR (TEMPORARY)

- TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- REMOVAL/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION. FOR REMOVAL OF PAVEMENT MARKING LINES, CONTRACTOR SHALL USE A METHOD APPROVED BY THE ENGINEER. AVOID DISTURBING EXISTING RUMBLE STRIPS.

MISCELLANEOUS

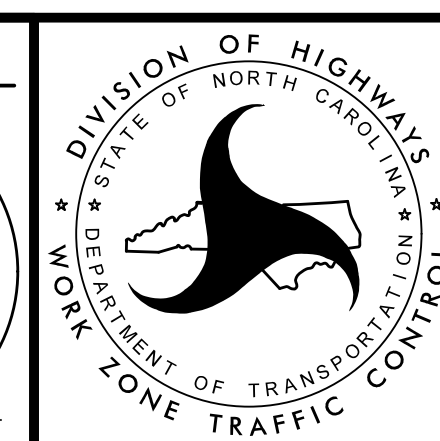
- LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

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APPROVED: *Helen Shyu*
DATE: 12/14/2016

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**TRANSPORTATION
MANAGEMENT PLAN
MANAGEMENT
STRATEGIES AND
GENERAL NOTES**

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LEGEND

GENERAL

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



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

TEMPORARY PAVEMENT MARKING

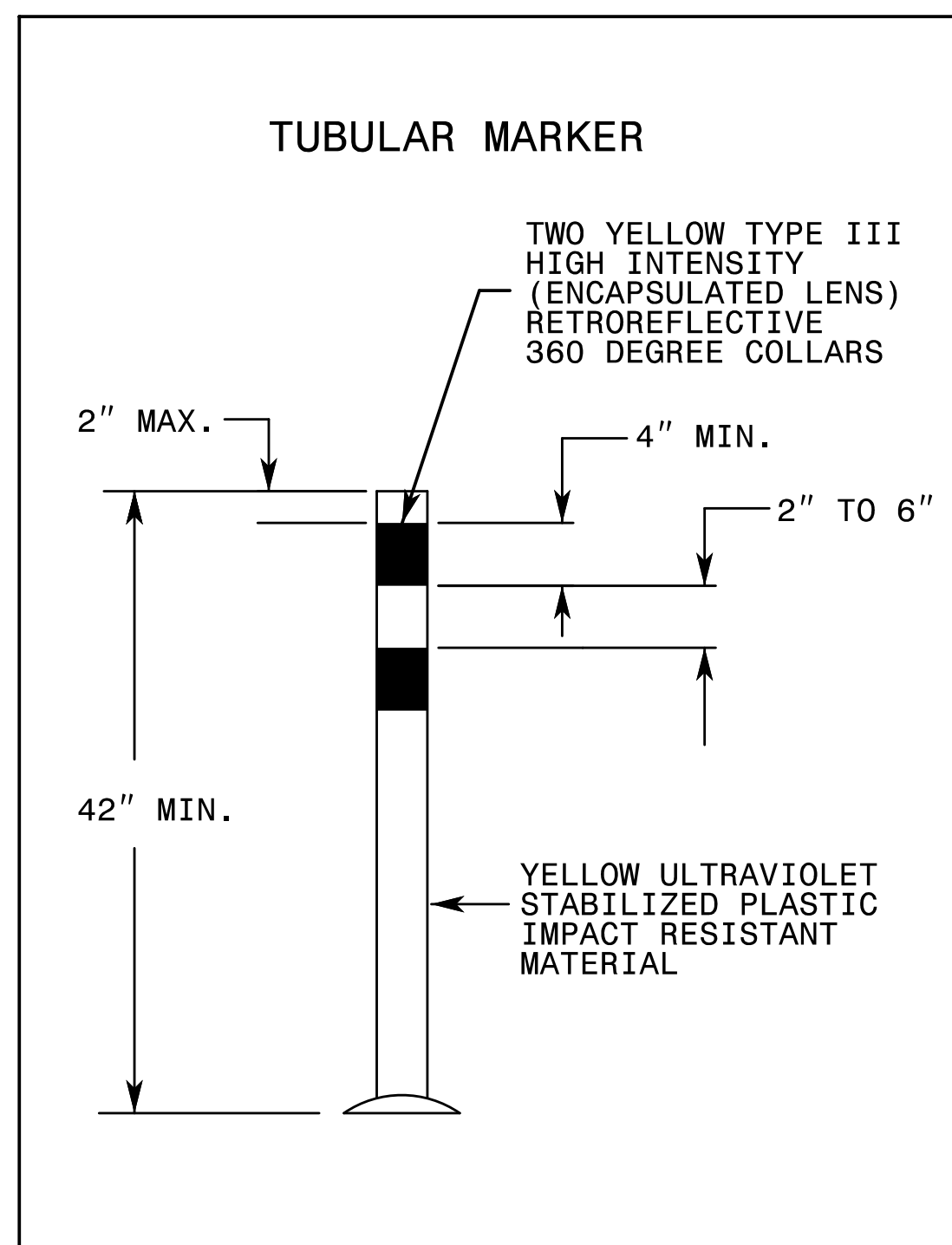
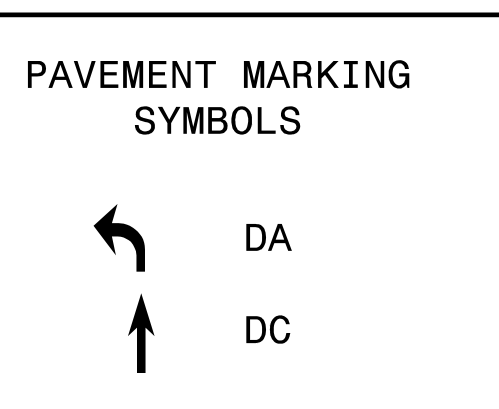
SYMBOL	DESCRIPTION
<u>PAVEMENT MARKING LINES</u>	
<u>4" COLD APPLIED PLASTIC (TYPE 4)</u>	
CA	WHITE EDGELINE
CB	YELLOW EDGELINE
CD	WHITE MINISKIP (3 FT - 9 FT/SP)
CE	WHITE SOLID LANE LINE
CI	YELLOW DOUBLE CENTER
C8	WHITE MINISKIP (2 FT - 6 FT/SP)

PAVEMENT MARKING SYMBOLS & CHARACTERS

<u>4" COLD APPLIED PLASTIC (TYPE 4)</u>	
DA	LEFT TURN ARROW
DC	STRAIGHT ARROW

PAVEMENT MARKERS

<u>TEMPORARY RAISED</u>	
MI	CRYSTAL & RED
MH	YELLOW & YELLOW



PHASING

NOTES:

REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

THE TERM RSD DENOTES "ROADWAY STANDARD DRAWING".

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON US 158/ CARATOKE HWY/ N. CROATAN HWY ACCORDING TO RSD 1101.01, SHEET 2 OF 3.

STEP 2: AWAY FROM TRAFFIC, BEGIN BRIDGE SUB-STRUCTURE REHAB. USING RSD 1101.02 (SHEET 3 OF 15), MATERIAL MAY BE DELIVERED TO BARGES, EXCEPT BETWEEN STEPS 3-7.

PLACE & COVER STATIONARY SIGNS SHOWN ON SHEETS TMP-3 & TMP-8.

COMPLETE THE REQUIREMENTS OF STEP 3 THROUGH STEP 7. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

NOTE: SPEED LIMIT REDUCTION IS ONLY IN EFFECT DURING THE ICT.

STEP 3: UNCOVER SPEED REDUCTION SIGNS AND USING RSD 1101.02 (SHEET 3 OF 15) DURING NIGHT TIME HOURS, SHIFT WESTBOUND TRAFFIC INTO OUTSIDE LANE. INSTALL TEMPORARY PAVEMENT MARKINGS AND PAVEMENT MARKERS ALONG WESTBOUND BRIDGE AND TEMPORARY WESTBOUND PATTERN.

STEP 4: USING RSD 1101.02 (SHEET 3 OF 15) DURING NIGHT TIME HOURS, COMPLETE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS, PAVEMENT MARKERS, AND TRAFFIC CONTROL DEVICES AND SHIFT EASTBOUND US 158 INTO TEMPORARY TRAFFIC PATTERN. USE LAW ENFORCEMENT AS NECESSARY. (SEE TMP-3 THRU TMP-6)

STEP 5: AWAY FROM TRAFFIC, COMPLETE BRIDGE SUPER-STRUCTURE REHABILITATION.

STEP 6: USING DRUMS, SHIFT EASTBOUND TRAFFIC TO OUTSIDE LANE OF FINAL PATTERN DURING NIGHT TIME HOURS. USING RSD 1101.02 (SHEET 3 OF 15) DURING NIGHT TIME HOURS, REMOVE CONFLICTING TEMPORARY MARKINGS AND MARKERS AND PLACE TEMPORARY MARKINGS AND MARKERS IN FINAL LOCATION. OPEN ALL EASTBOUND LANES TO FINAL PATTERN. REMOVE ALL EASTBOUND TEMPORARY SIGNS AND DEVICES, EXCEPT FOR ADVANCE WARNING SIGNS W-20-1, SP-11299 & G-20-2A.

STEP 7: USING DRUMS, KEEP WESTBOUND TRAFFIC IN OUTSIDE LANE OF ORIGINAL PATTERN DURING NIGHT TIME HOURS. USING RSD 1101.02 (SHEET 3 OF 15) DURING NIGHT TIME HOURS, REMOVE CONFLICTING TEMPORARY MARKINGS & MARKERS AND PLACE TEMPORARY MARKINGS AND MARKERS IN FINAL LOCATION. OPEN ALL LANES TO FINAL PATTERN. REMOVE ALL WESTBOUND TEMPORARY SIGNS AND DEVICES, EXCEPT FOR ADVANCE WARNING SIGNS W-20-1, SP-11299 & G-20-2A.

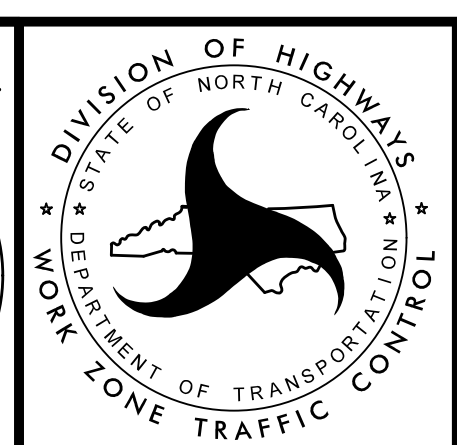
STEP 8: COMPLETE BRIDGE SUB-STRUCTURE REHAB BEGUN IN STEP 2.

STEP 9: USING RSD 1101.02 (SHEET 12 OF 15), PLACE FINAL PAVEMENT MARKINGS IN THE FINAL TRAFFIC PATTERN. REMOVE ALL TEMPORARY SIGNS AND DEVICES.

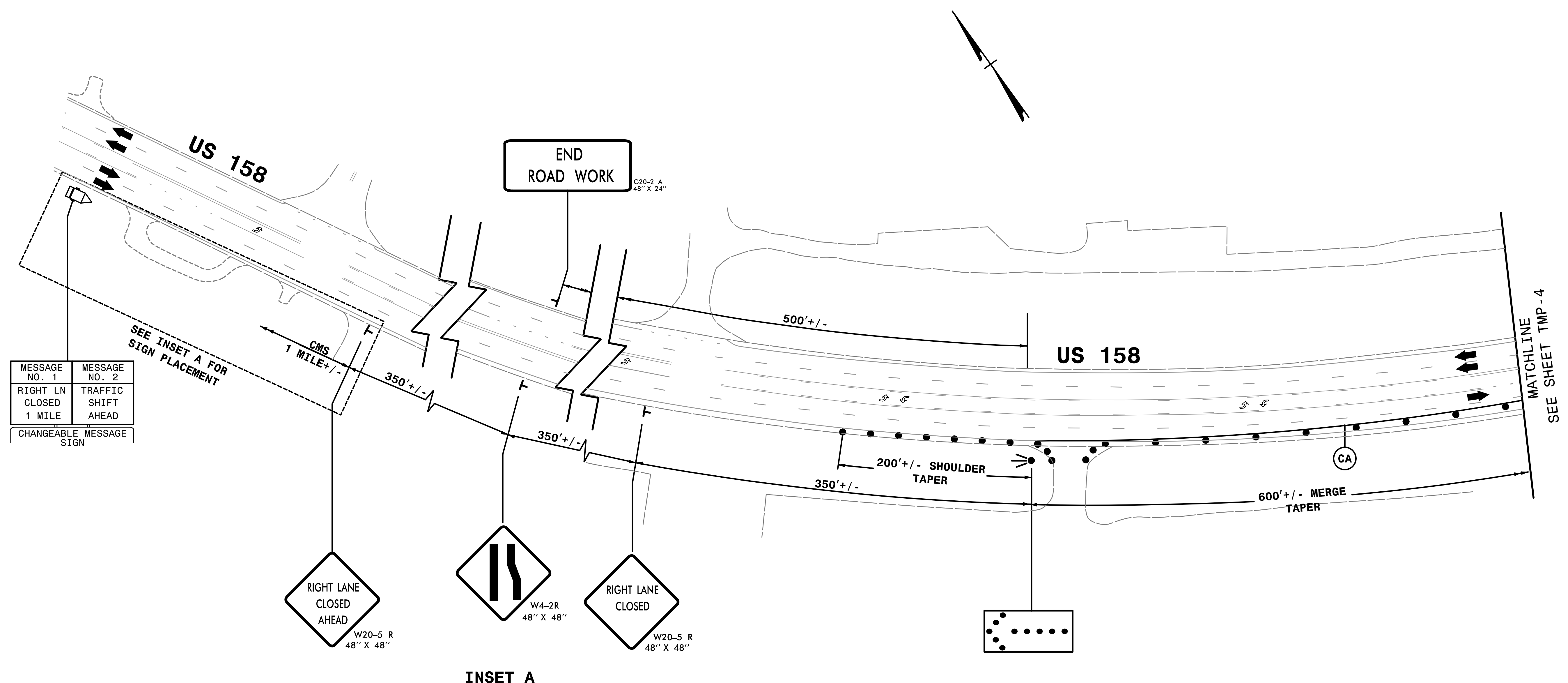
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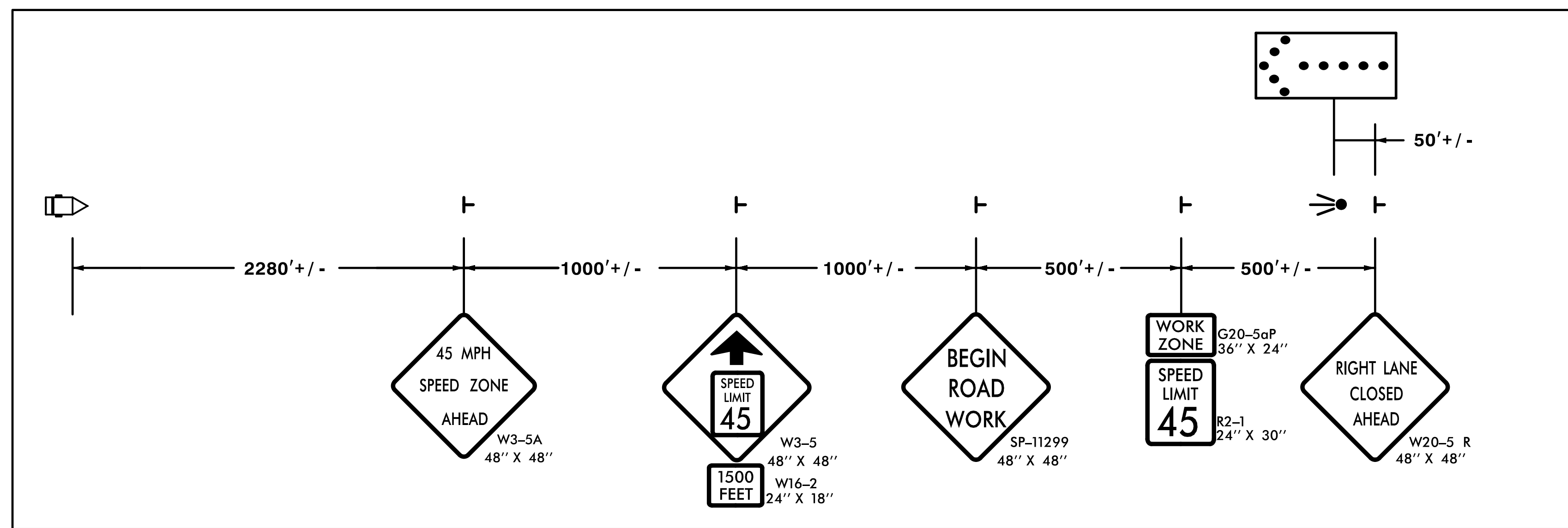


TRANSPORTATION MANAGEMENT PLAN
 LEGEND, TEMPORARY PAVEMENT MARKING SCHEDULE AND PHASING



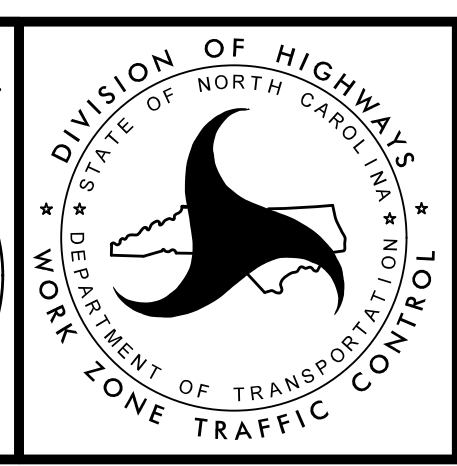
MESSAGE NO. 1	MESSAGE NO. 2
RIGHT LN CLOSED 1 MILE	TRAFFIC SHIFT AHEAD
CHANGEABLE MESSAGE SIGN	

INSET A



NOTE: REMOVE ANY EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TEMPORARY PATTERN SHOWN AS NECESSARY

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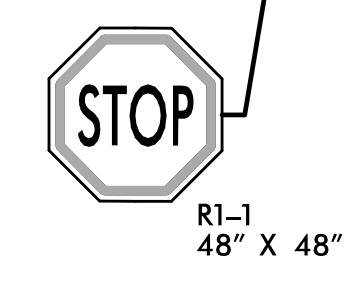
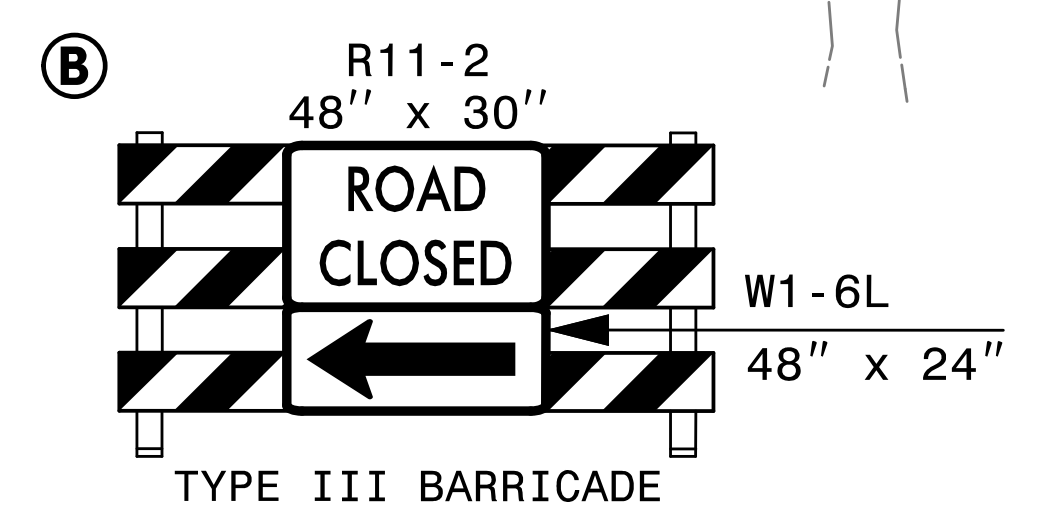
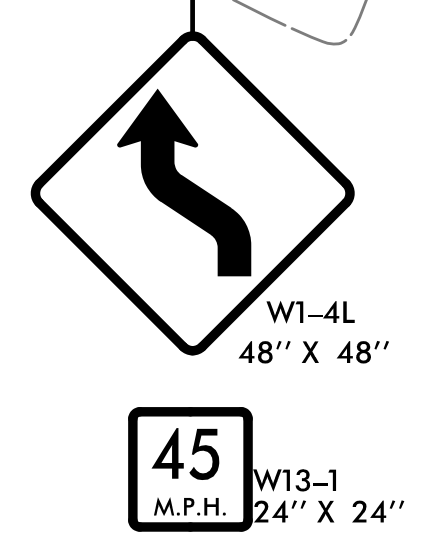
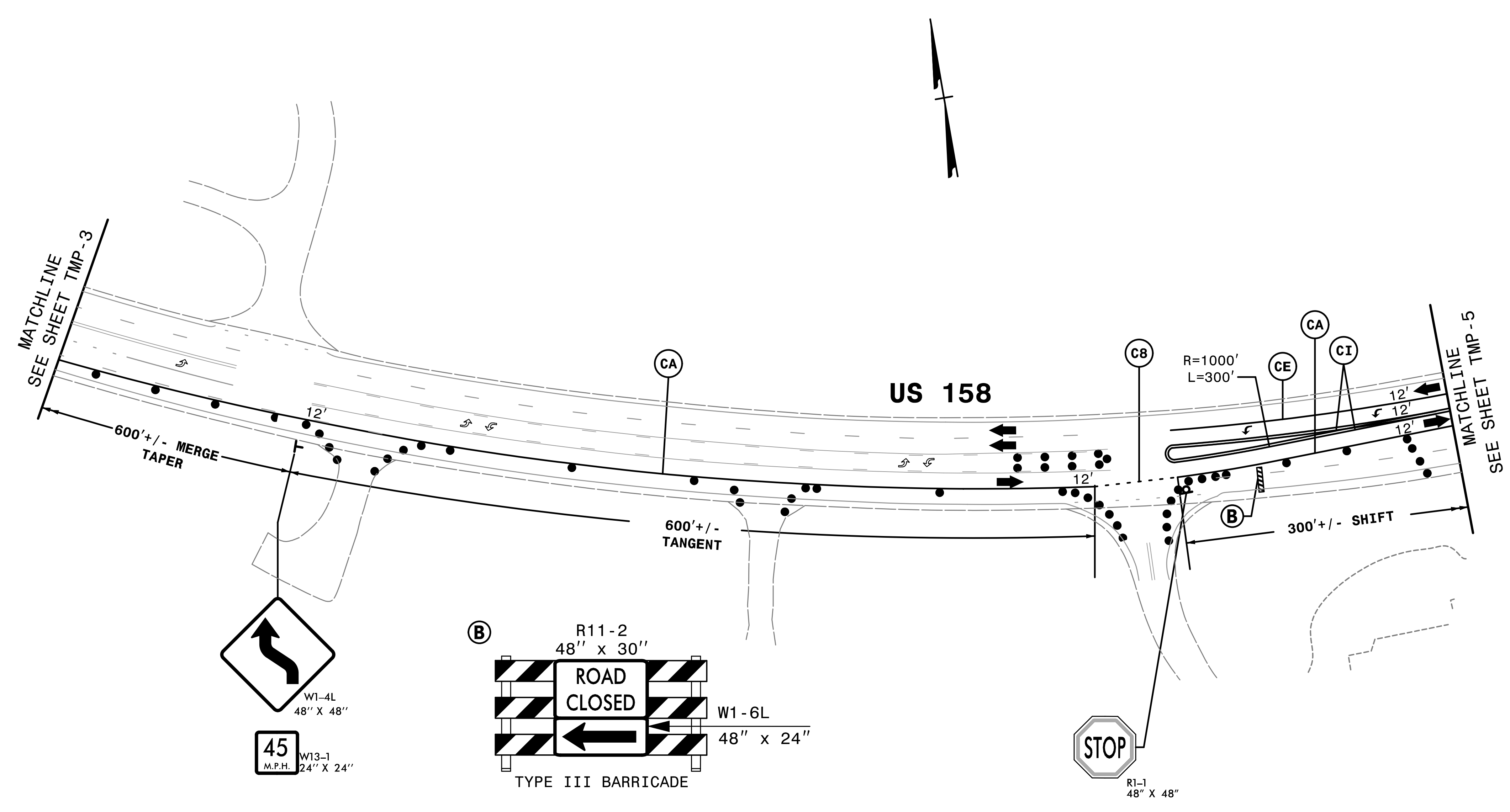


TRANSPORTATION MANAGEMENT PLAN
 TRAFFIC CONTROL DETAIL

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 343 E. SIX FORKS ROAD, SUITE 200
 RALEIGH, NORTH CAROLINA 27609
 NC LICENSE NO: C-1554

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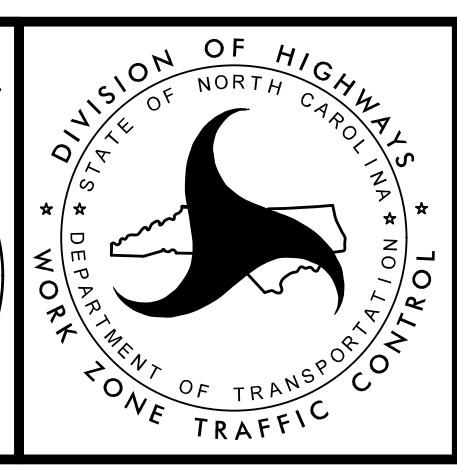


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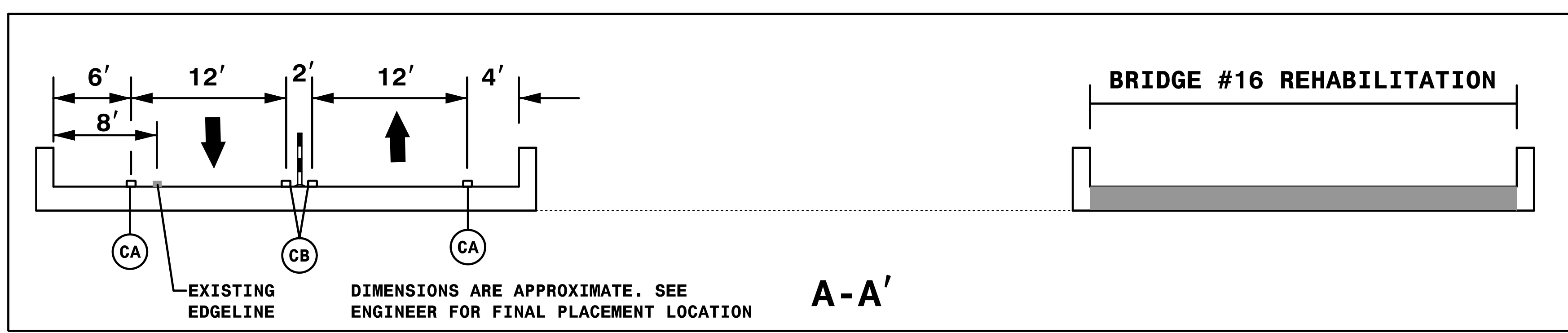
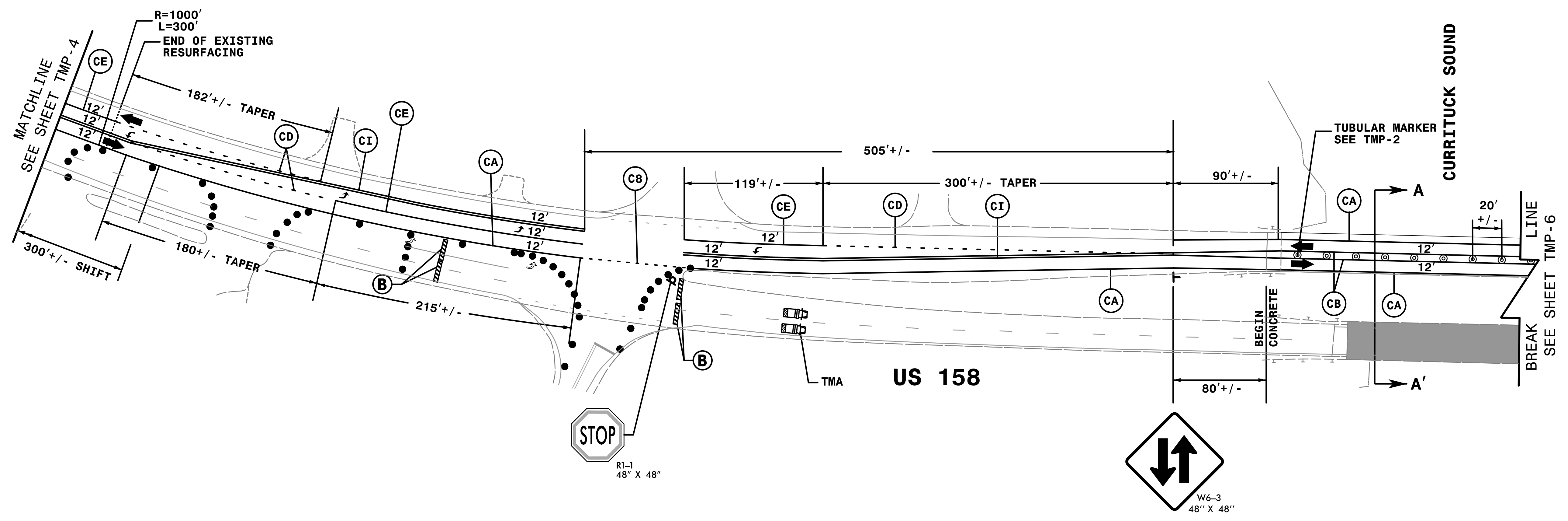
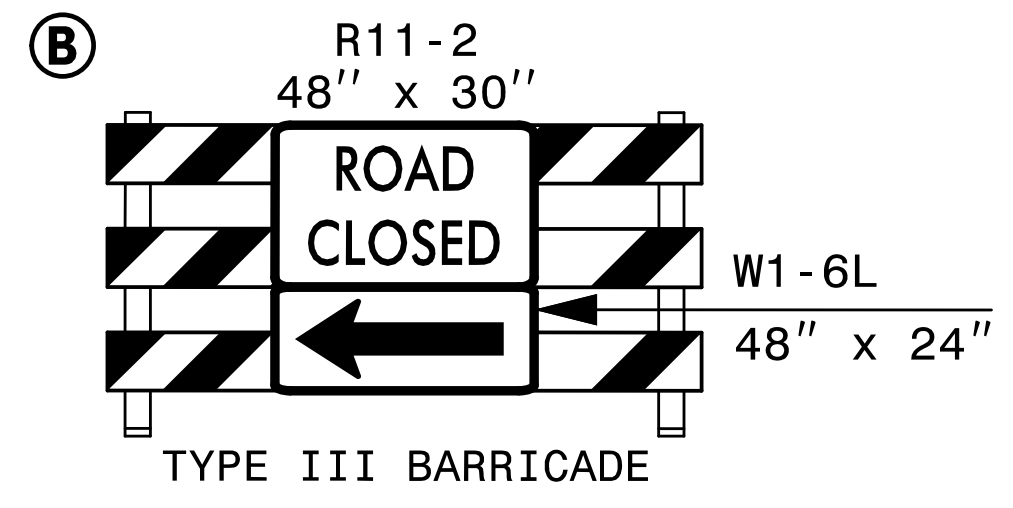


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 SEAL
 PROFESSIONAL ENGINEER
 SEAL 042517
 HELEN SHYU



TRANSPORTATION
MANAGEMENT PLAN
TRAFFIC CONTROL
DETAIL

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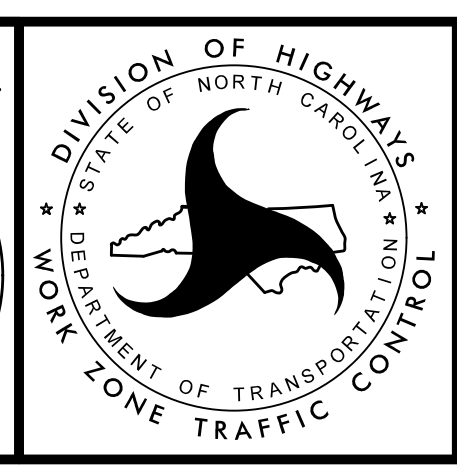
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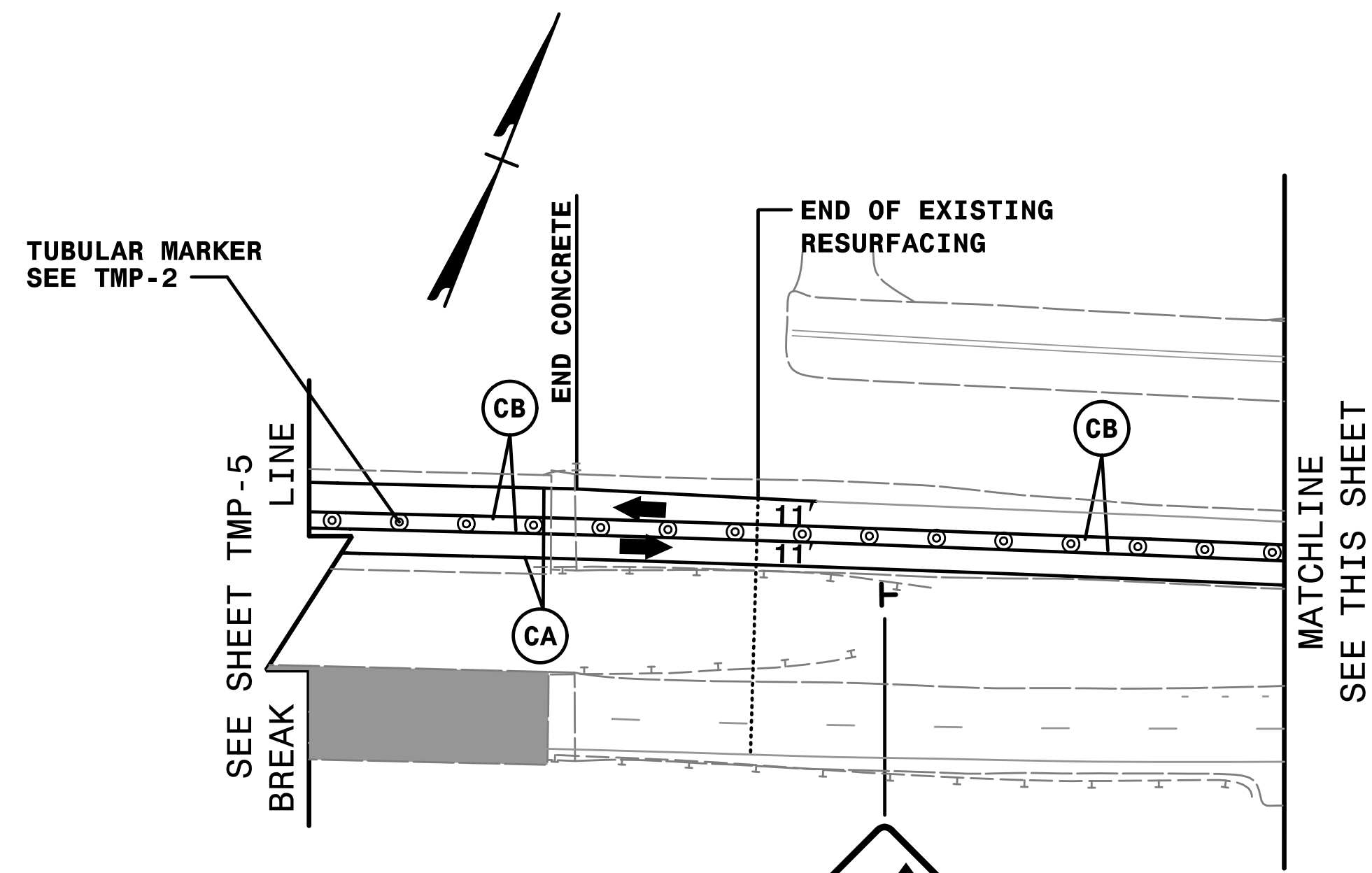
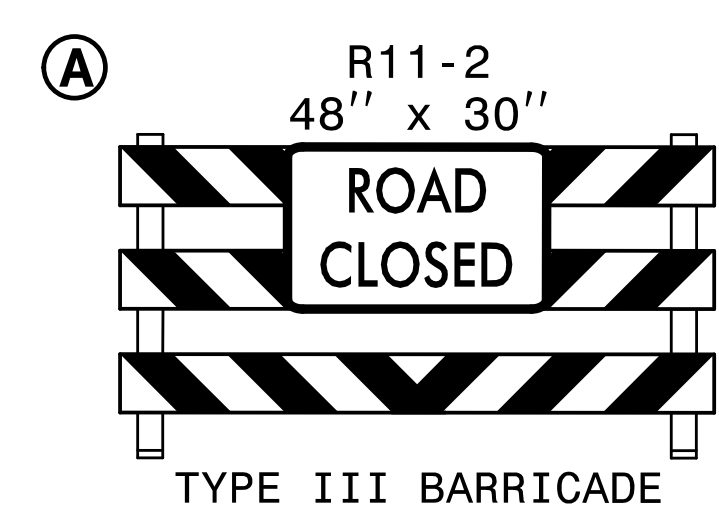
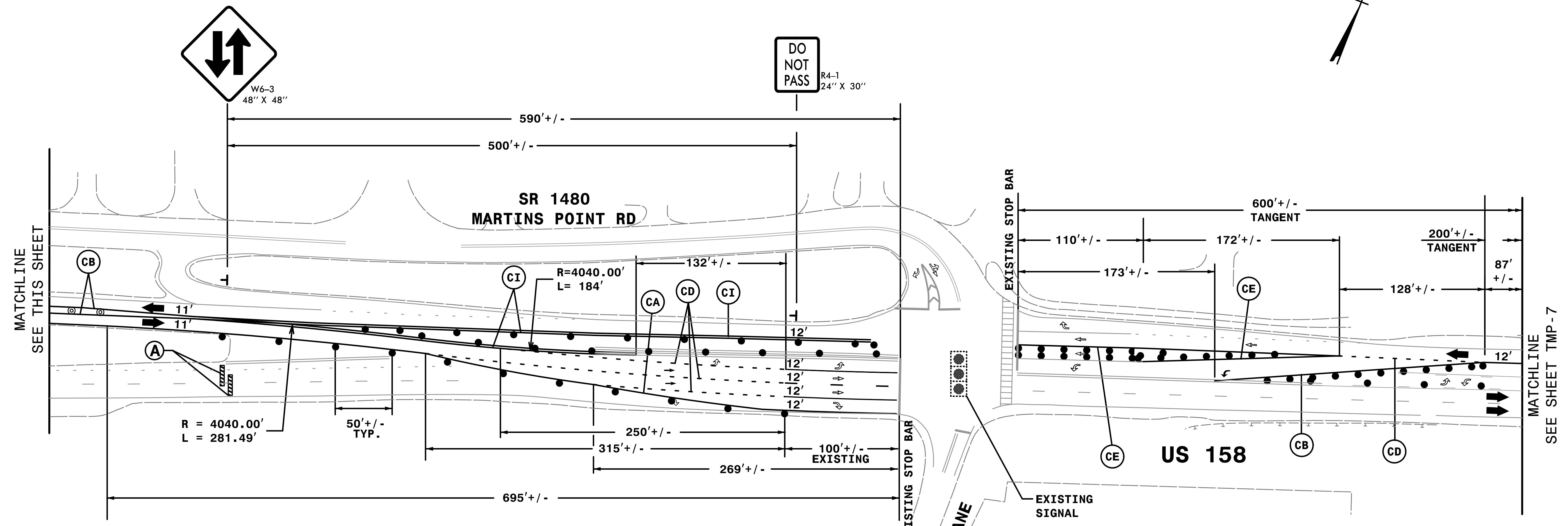
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NORTH CAROLINA PROFESSIONAL ENGINEER
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HELEN SHYU



TRANSPORTATION MANAGEMENT PLAN
TRAFFIC CONTROL DETAIL

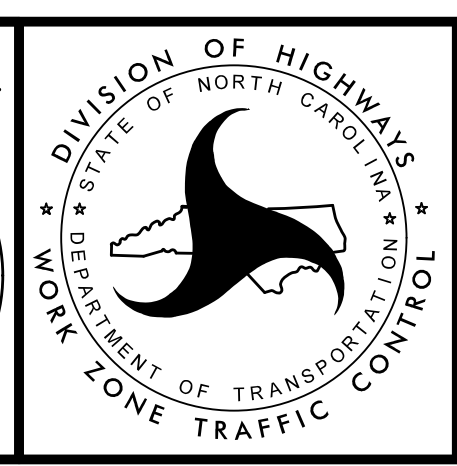


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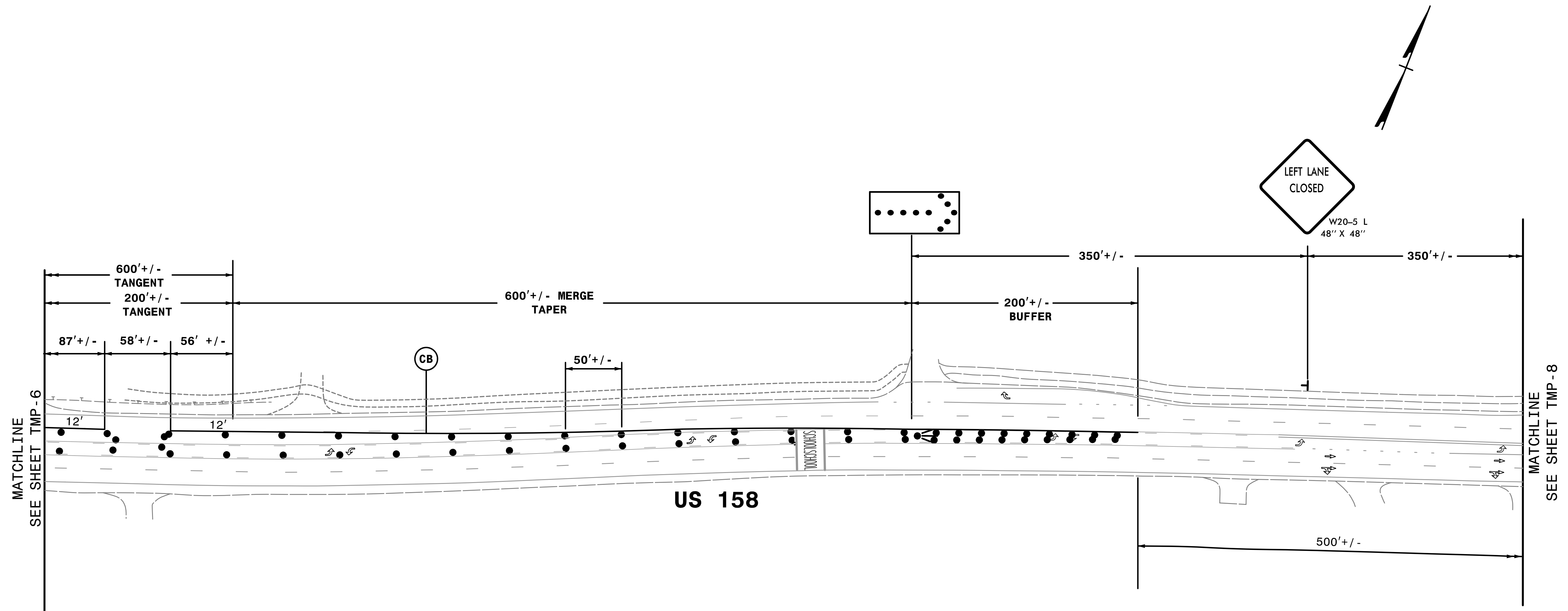


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TRANSPORTATION MANAGEMENT PLAN
TRAFFIC CONTROL DETAIL

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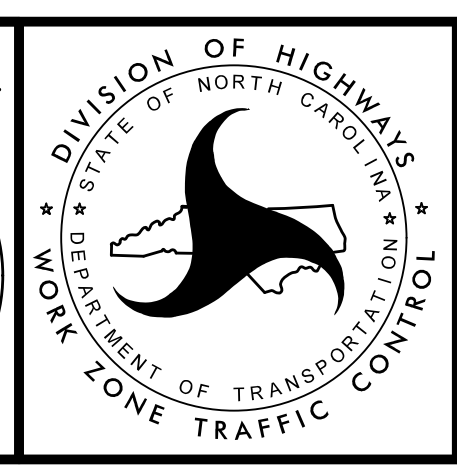


NOTE: REMOVE ANY EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TEMPORARY PATTERN SHOWN AS NECESSARY

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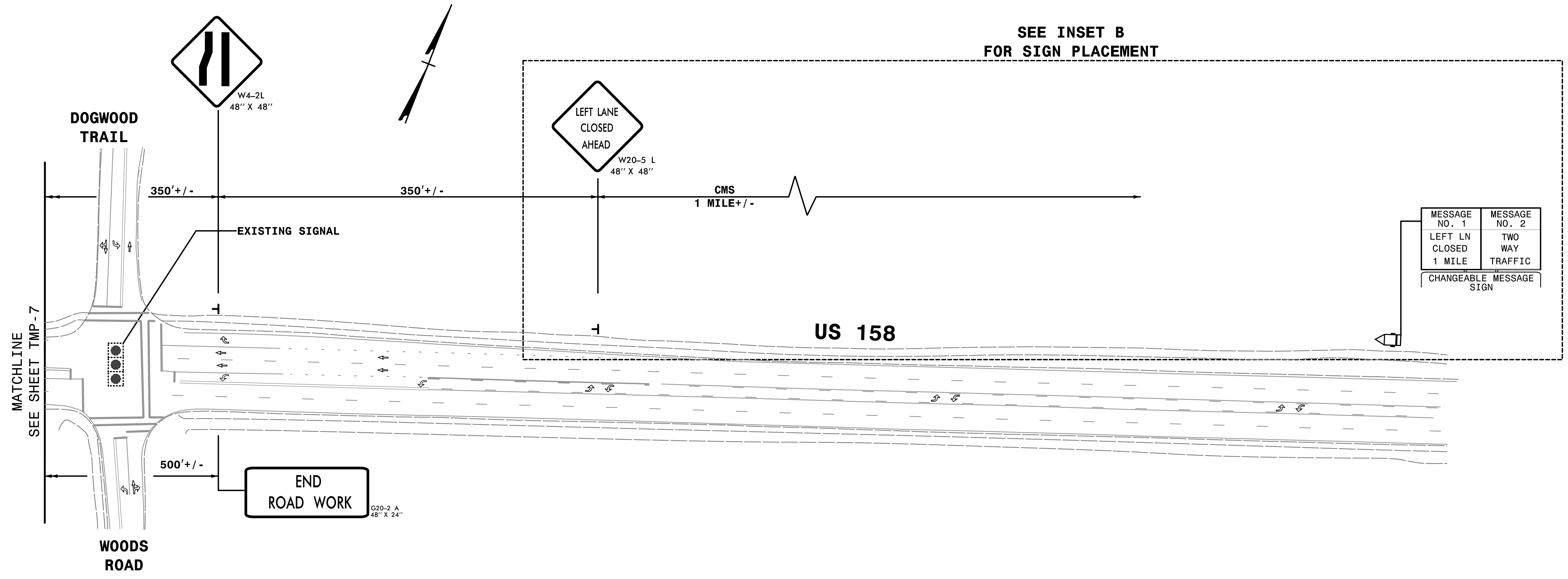


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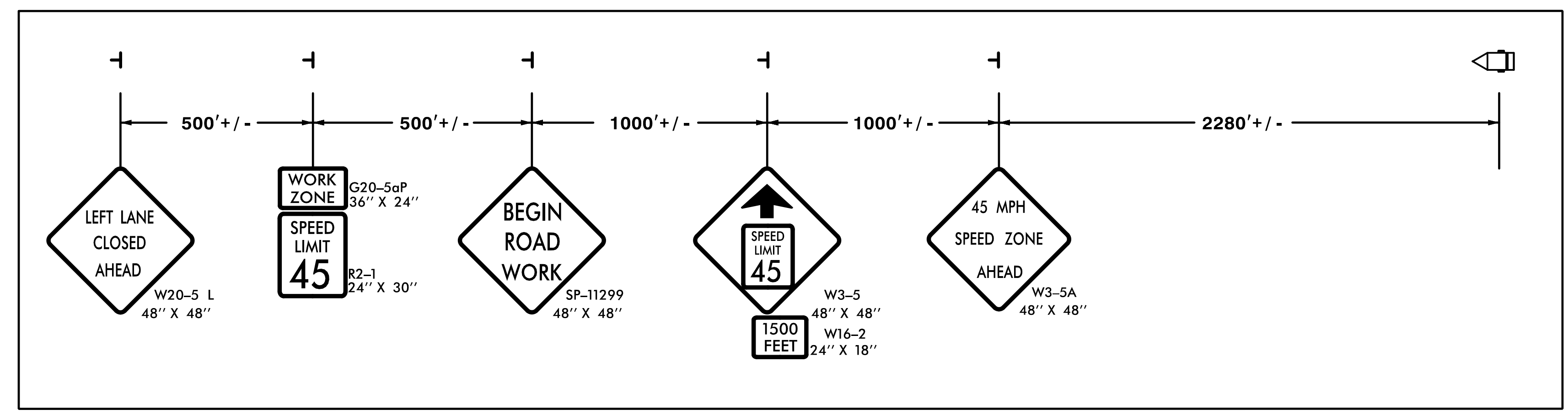


TRANSPORTATION
MANAGEMENT PLAN
**TRAFFIC CONTROL
DETAIL**

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INSET B



NOTE: REMOVE ANY EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TEMPORARY PATTERN SHOWN AS NECESSARY

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APPROVED: *Helen Shyu*
 DATE: 12/14/2016

SEAL



TRANSPORTATION
MANAGEMENT PLAN

TRAFFIC CONTROL
DETAIL

10:56:06 AM
\\TCP\B-5937_fc.plt\d6.dgn
HNTB