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<u>•</u>			TITLE		
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	LIST OF AF AND LEGEND		E ROADWAY	STANDARD DRAWIN	GS
2A	MANAGEMENT AND LOCAL		GIES, GENE	RAL NOTES,	
	PHASING NO				
7	PHASE I DE	TAILS			6
11	PHASE II D	ETAILS			
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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" -N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

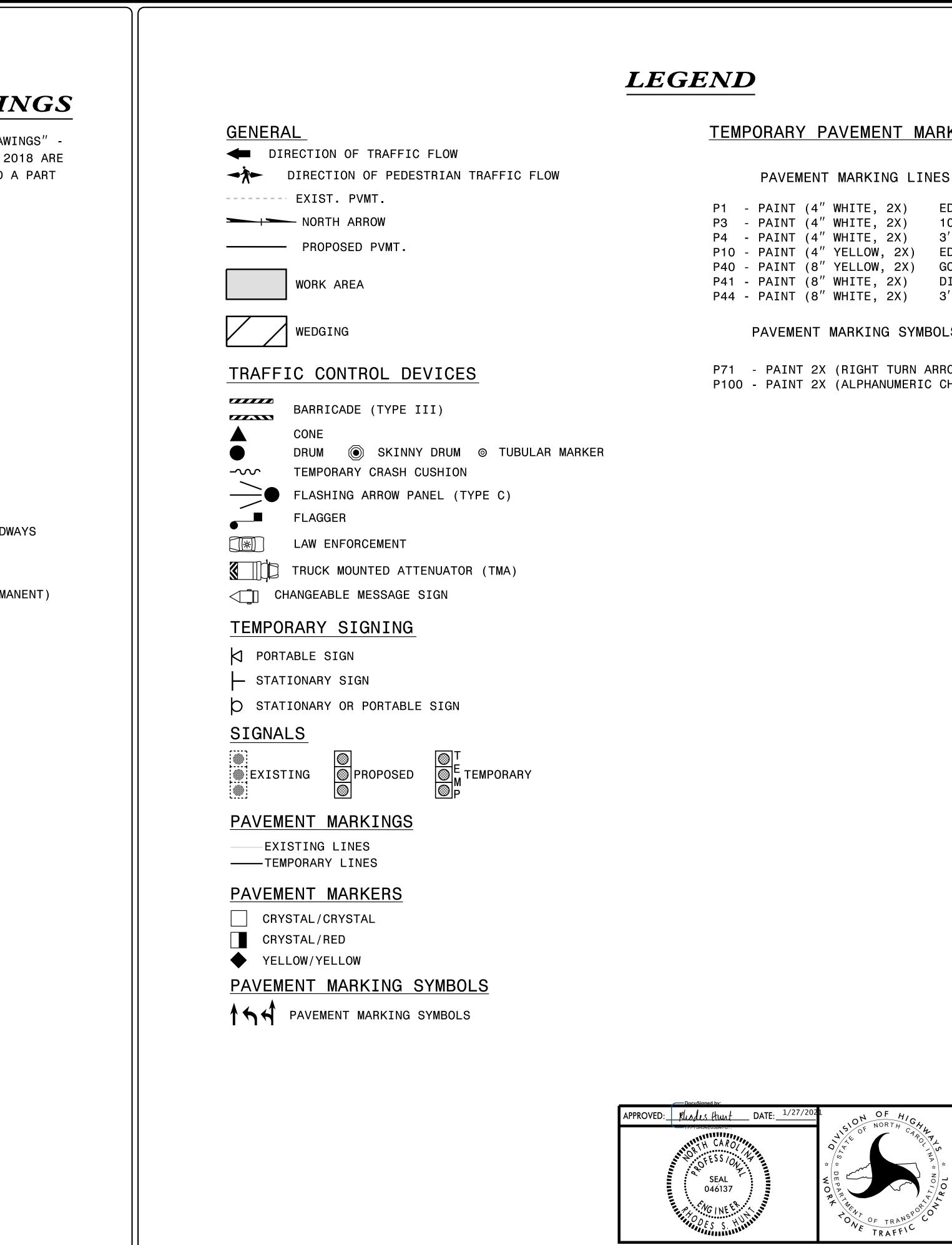
STD. NO.

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	DRUMS
1135.01	CONES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADV
1205.03	PAVEMENT MARKINGS - INTERCHANGES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - (TEMPORARY & PERMA
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS

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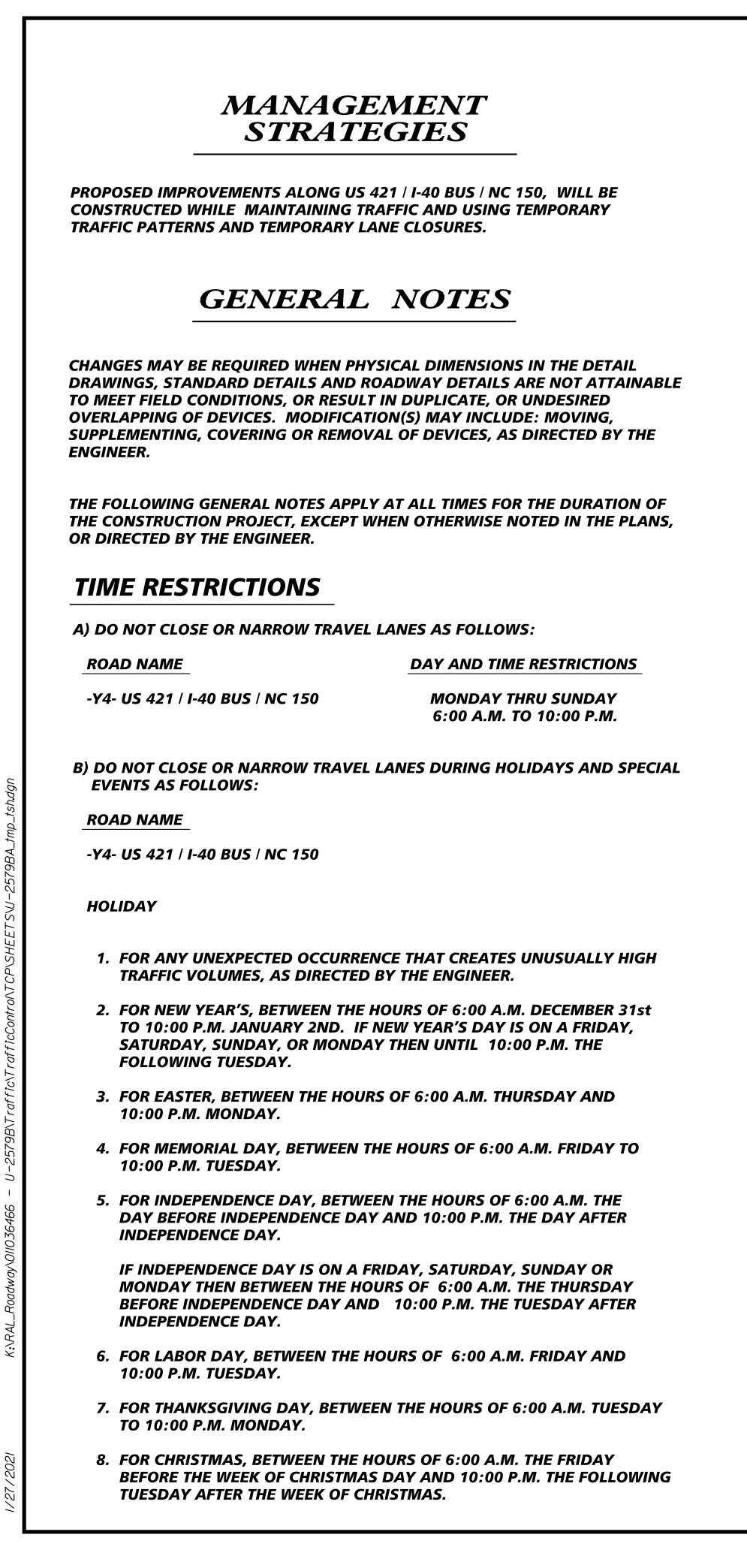
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ORARY PAVEMENT MAR	KING	
PAVEMENT MARKING LINES	8	
PAINT (4" WHITE, 2X) E	DGELINE	
PAINT (4" WHITE, 2X) 1	O' SKIP	
PAINT (4" WHITE, 2X) 3 PAINT (4" YELLOW, 2X) E	GELINE	
PAINT (8" YELLOW, 2X) G	ORELINE	
PAINT (8" WHITE, 2X) D PAINT (8" WHITE, 2X) 3	IAGONAL '-9'/SP MINISKIP	
PAVEMENT MARKING SYMBO	_S	
- PAINT 2X (RIGHT TURN ARF	OW)	
- PAINT 2X (ALPHANUMERIC C		

Kimley»Horn





TIME RESTRICTIONS (CONT.)

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME

DAY AND TIME RESTRICTIONS

ANYTIME

-Y4- US 421 / I-40 BUS / NC 150

D) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME

DURATION AND DAY AND TIME RESTRICTIONS **OPERATION**

NONE

-Y4- US 421 / I-40 BUS / NC 150

MONDAY THRU SUNDAY 6:00 A.M. TO 10:00 P.M.

E) DO NOT CONDUCT SINGLE VEHICLE HAULING AS FOLLOWS; INGRESS AND EGRESS FROM RAMPS WILL BE ALLOWED:

ROAD NAME

DAY AND TIME RESTRICTIONS

-Y4- US 421 / I-40 BUS / NC 150

MONDAY THRU SUNDAY 6:00 A.M. TO 10:00 P.M.

F) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS; INGRESS AND **EGRESS FROM RAMPS WILL BE ALLOWED:**

ROAD NAME

-Y4- US 421 / I-40 BUS / NC 150

DAY AND TIME RESTRICTIONS

MONDAY THRU SUNDAY 6:00 A.M. TO 10:00 P.M.

G) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- H) 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.
- I) 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.
- 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 USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

PAVEMENT EDGE DROP OFF REQUIREMENTS

TRAFFIC PATTERN ALTERATIONS

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

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LANE AND SHOULDER CLOSURE REQUIREMENTS (CONT.)

K) 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.

L) 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.

M) DO NOT INSTALL MORE THAN ONE SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON -Y4- US 421 / I-40 BUS / NC 150.

N) 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:

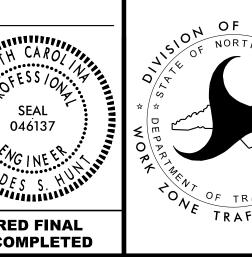
BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

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

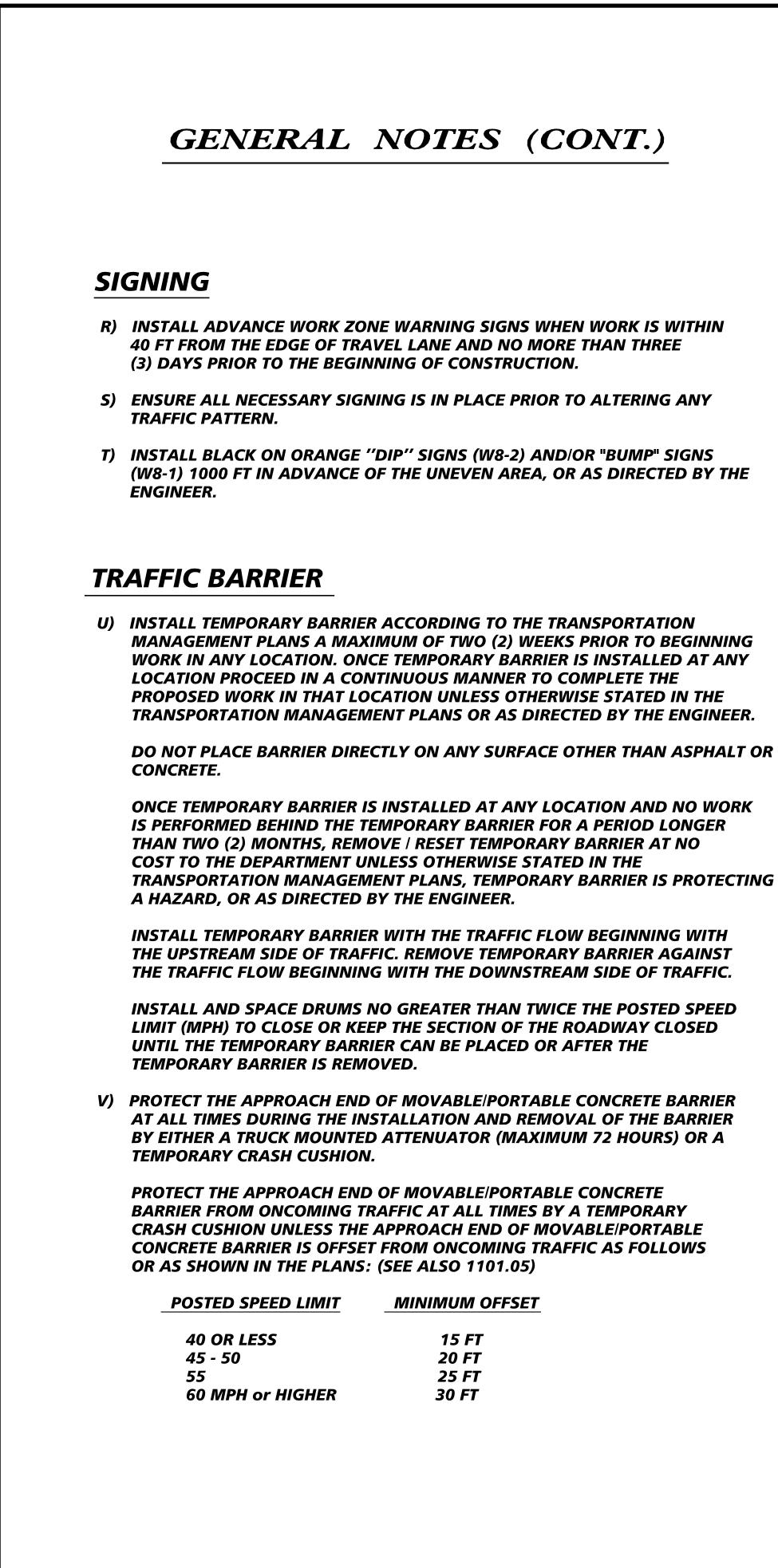
BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

O) 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 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

Kimley»Horn



GENERAL NOTES



TRAFFIC CONTROL DEVICES

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

PAVEMENT MARKINGS AND MARKERS

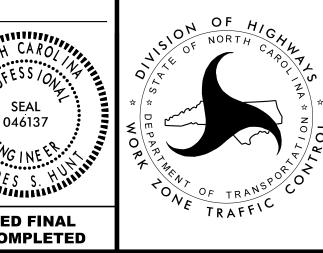
Z) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS **ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:**

ROAD NAME	MARKING	MARKER
-Y4- US 421/I-40 BUS/ NC 150	PAINT	TEMPORARY RAISED

- AA) 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.**
 - **BB) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.**
 - CC) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

APPROVED: Rhodes Hunt 1/27/2021 DATE: SEAL **DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

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GENERAL NOTES

PHASE 1

WHILE MAINTAINING TRAFFIC USING RSD 1101.04 FOR SHOULDER CLOSURES AND RSD 1101.02 FOR LANE CLOSURES AS NECESSARY, PERFORM THE FOLLOWING AS SHOWN ON SHEETS TMP-4 THRU TMP-7:

STEP 1:

INSTALL ADVANCE WARNING SIGNS IN ACCORDANCE WITH RSD 1101.01

STEP 2:

INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AS SHOWN ON SHEETS TMP-4 THRU TMP-7 BEGINNING AT 26+25. TIE TO EXISTING MARKINGS AT -Y4WB- STA. 39+58 AND MAINTAIN EXISTING MARKINGS FROM -Y4WB- STA. 39+58 TO -Y4WB- STA. 67+68. REMOVE CONFLICTING MARKINGS AND SHIFT TRAFFIC ONTO TEMPORARY PATTERN.

STEP 3:

INSTALL PORTABLE CONCRETE BARRIER ALONG -Y4WB- US 421 / I-40 BUS / NC 150 AS SHOWN IN THE PHASE 1 DETAILS FROM -Y4WB- STA. 24+50 TO -Y4WB- STA. 69+58.

INSTALL TEMPORARY CRASH CUSHION AT -Y4WB- STA. 24+50 AS SHOWN ON SHEET TMP-4.

STEP 4:

BEHIND BARRIER AND AWAY FROM TRAFFIC CONSTRUCT PROPOSED IMPROVEMENTS RIGHT OF -Y4WB- US 421 / I-40 BUS / NC 150 FROM -Y4WB- STA. 26+65 TO -Y4WB- STA. 69+50 INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

- PROPOSED OUTSIDE WIDENING, SHOULDER BERM GUTTER, GUARDRAIL, NEW LOCATION ACCESS ROAD, CULVERT EXTENSION, STREAM RELOCATION, AND ALL ASSOCIATED DRAINAGE UP TO BUT NOT INCLUDING FINAL SURFACE COURSE.

NOTE:

- PROVIDE WEDGING AS REQUIRED TO ENSURE SMOOTH TRANSITIONS AND POSITIVE DRAINAGE

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PHASING

PHA:

WHILE MAINTAINING TRAFFIC USING RSD 1101.0 LANE CLOSURES AS NECESSARY, PERFORM THE

STEP 1: REMOVE

REMOVE PORTABLE CONCRETE BARRIER PLACED

STEP 2: INSTALL TEMPORARY PAINT PAVEMENT MARKIN TRAFFIC ONTO NEW PATTERN.

STEP 3: INSTALL PORTABLE CONC

INSTALL PORTABLE CONCRETE BARRIER ALONG -I-40 BUS / NC 150 AS SHOWN IN THE PHASE II DE

> - FROM -Y4WB- STA. 23+50 TO -Y4WB- STA -Y4WB- STA 23+50 (APPROX) USING GUA - FROM -Y4EB- STA. 23+50 TO -Y4WB- STA.

AT -Y4EB- STA. 74+00 (APPROX) USING G

STEP 4: BEHIND BARRIER AND AWAY FROM TRAFFIC CON DRAINAGE INSTALLATION AND GUARDRAIL INST

STEP 5: UPON COMPLETION OF ALL MEDIAN WORK, REM TEMPORARY GUARDRAIL ANCHOR UNITS. INSTAL REMOVE CONFLICTING MARKINGS AND SHIFT TR

STEP 6: USING TEMPORARY LANE CLOSURES IN ACCORD RSD 1101.02, PERFORM MILLING AND OVERLAY THE ROADWAY PLANS. INSTALL THE FINAL ASPH GUARDRAIL AND PORTABLE CONCRETE BARRIER -Y4EB- STA. 23+50 TO -Y4EB- STA. 47+54 AS SHO INSTALL ALL FINAL PAVEMENT MARKINGS. REMO LANES TO FINAL PATTERN.

NOTE: - PROVIDE WEDGING AS REQUIRED TO ENSURE SN

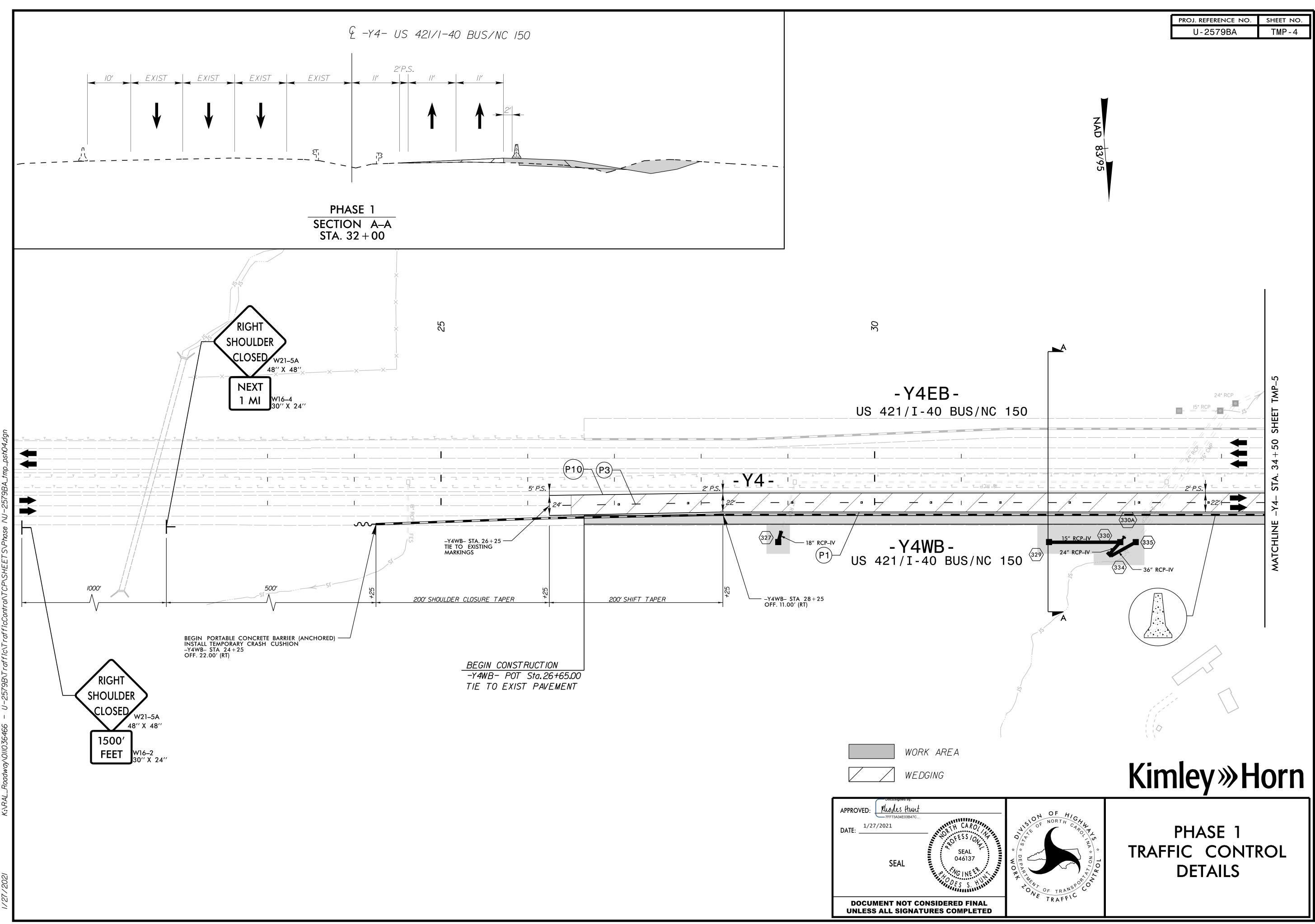
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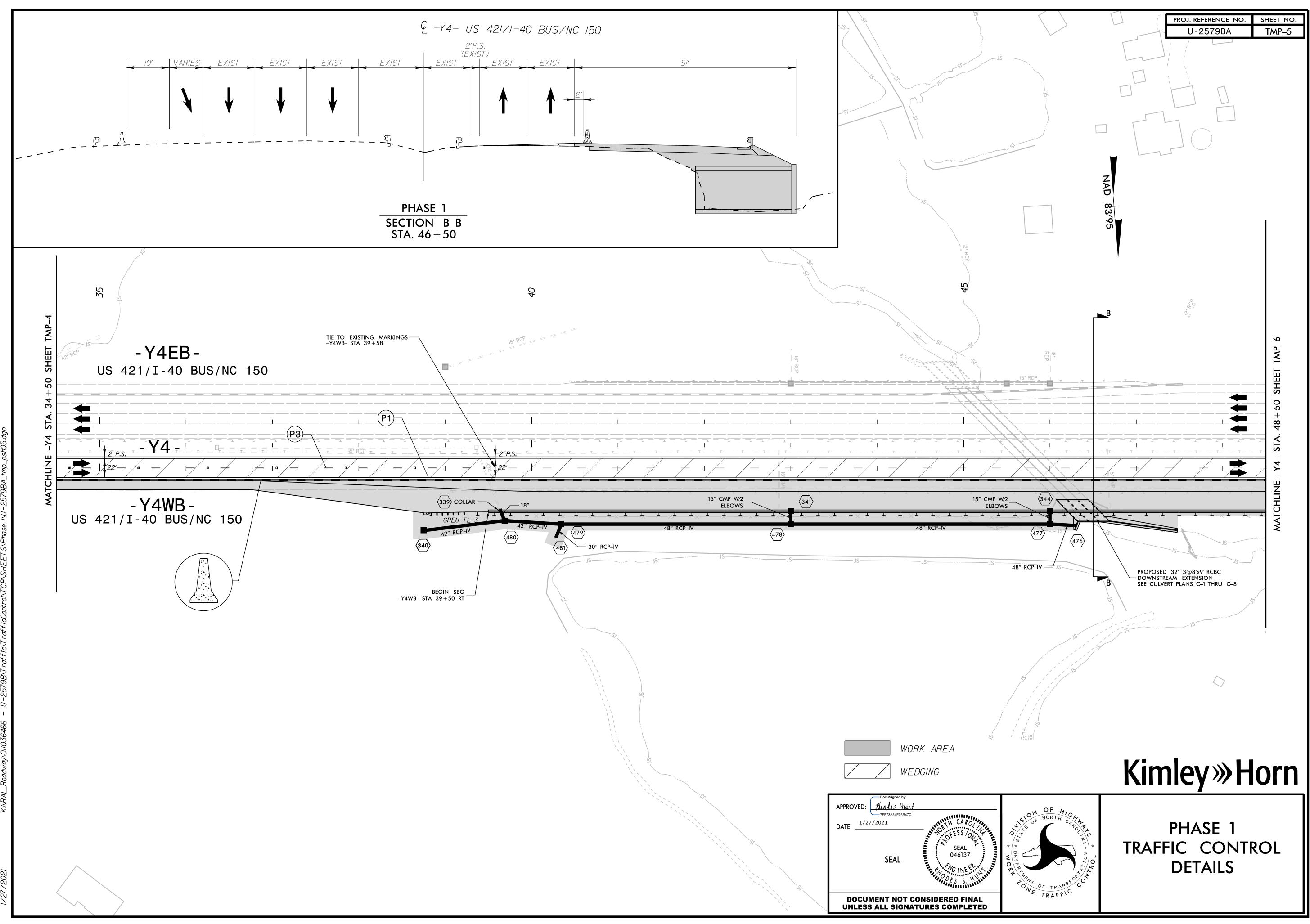
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04 FOR SHOULDER CLOSURES AND RSD 1101.02		
FOLLOWING AS SHOWN ON SHEETS TMP-8 THRU	J TMP-11:	
) IN PHASE 1 STEP 4.		
IGS, REMOVE CONFLICTING MARKINGS, AND SH	lift	
-Y4WB- US 421 / I-40 BUS / NC 150 AND -Y4EB- U	US 421 /	
ETAILS FOR THE FOLLOWING STATION RANGES:		
A. 74+00 (TIE TO EXISTING GUARDRAIL AT	۱	
ARDRAIL ANCHOR UNIT TYPE B-77 AS REQUIRED . 74+00 (TIE TO EXISTING/PROPOSED GUARDRA		
GUARDRAIL ANCHOR UNIT TYPE B-77 AS REQUIR		
NSTRUCT ALL MEDIAN GRADING, ASSOCIATED		
TALLATION ON -Y4- US 421 / I-40 BUS / NC 150.		
OVE ALL PORTABLE CONCRETE BARRIER AND		
LL PAINT VERSION OF FINAL PAVEMENT MARKI	NGS,	
RAFFIC ONTO FINAL PATTERN.		
ANCE WITH THE PROJECT TIME RESTRICTIONS A	ND	
ON ALL ALIGNMENTS TO THE LIMITS DETAILED		
HALT SURFACE COURSE AND REMOVE AND RESE	T	
R ON -Y4EB- US 421 / I-40 BUS / NC 150 FROM		
OWN ON THE ROADWAY PLANS. OVE ALL TRAFFIC CONTROL DEVICES AND OPEN	ΙΔΙΙ	
VVL ALL INALFIC CONTROL DEVICES AND UPEN		
SMOOTH TRANSITIONS AND POSITIVE DRAINAG	E	

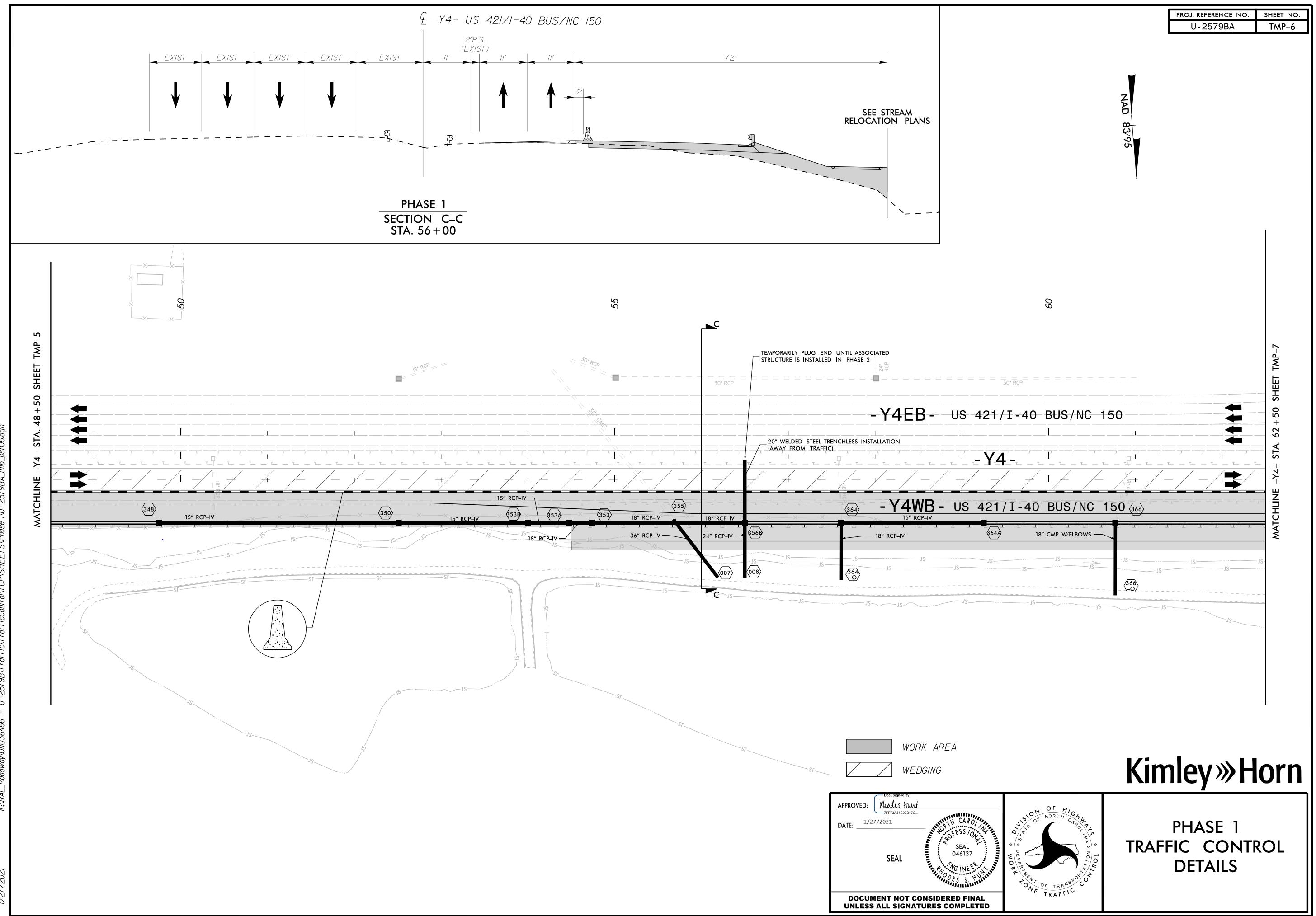
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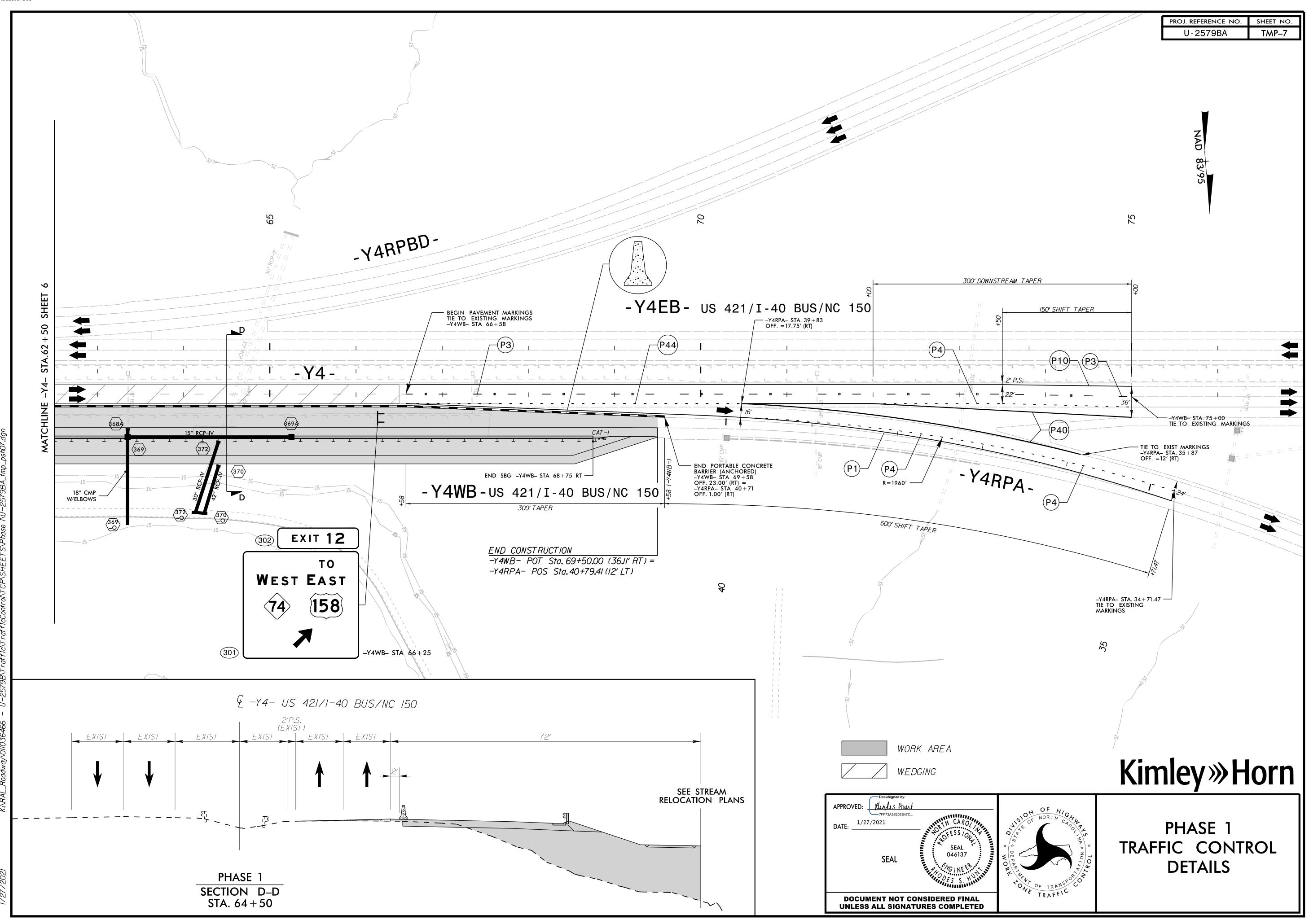


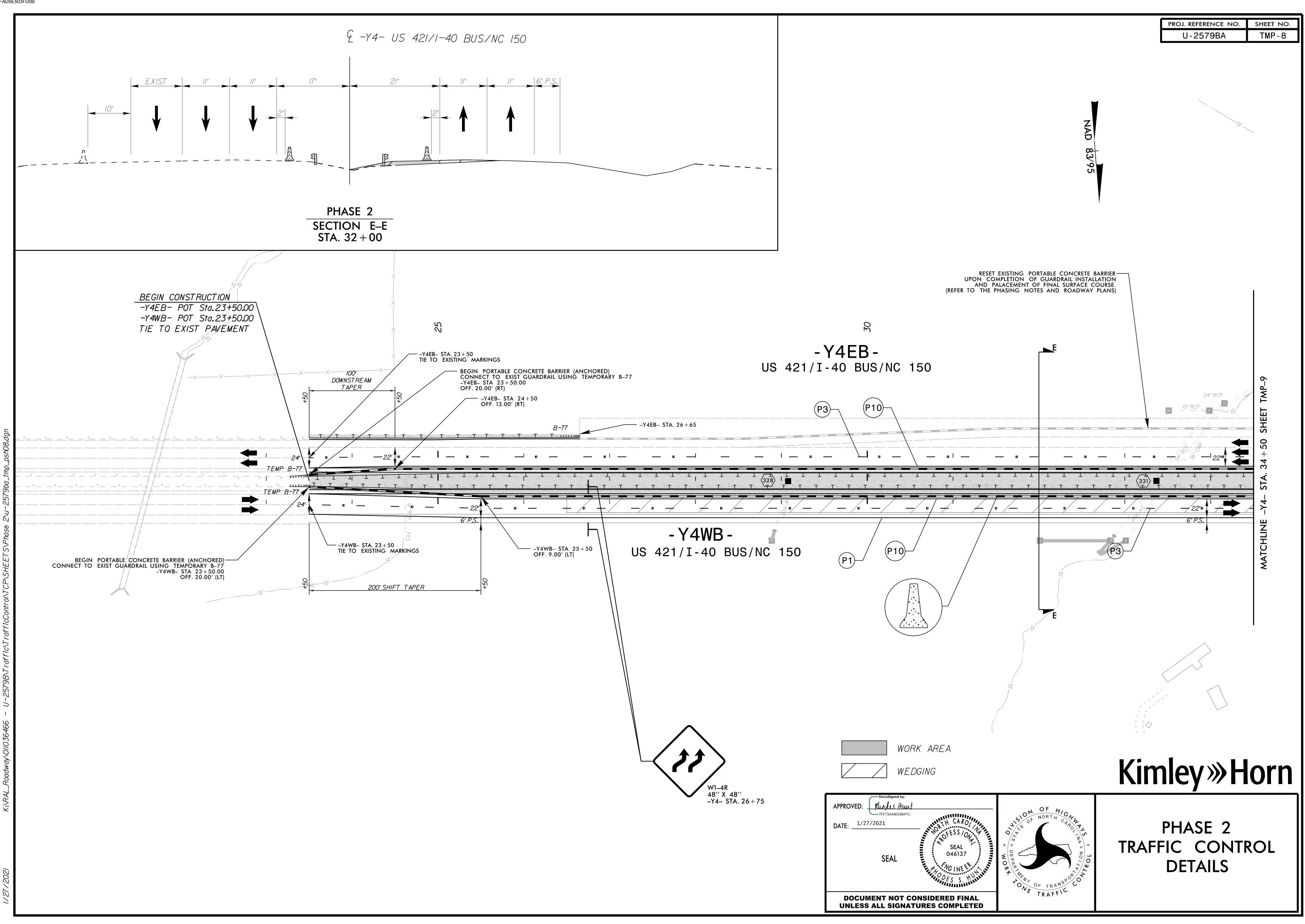
PHASING NOTES

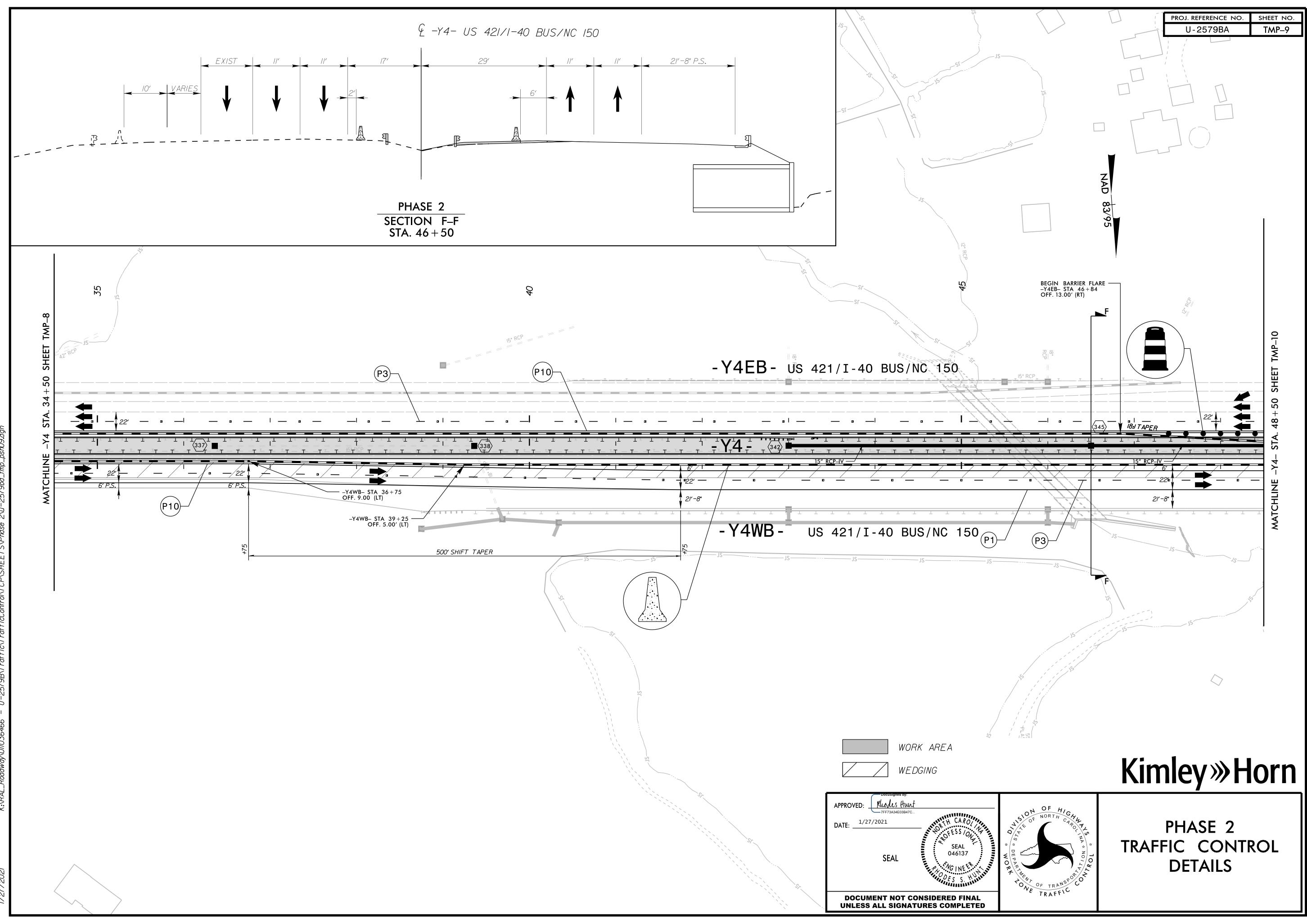


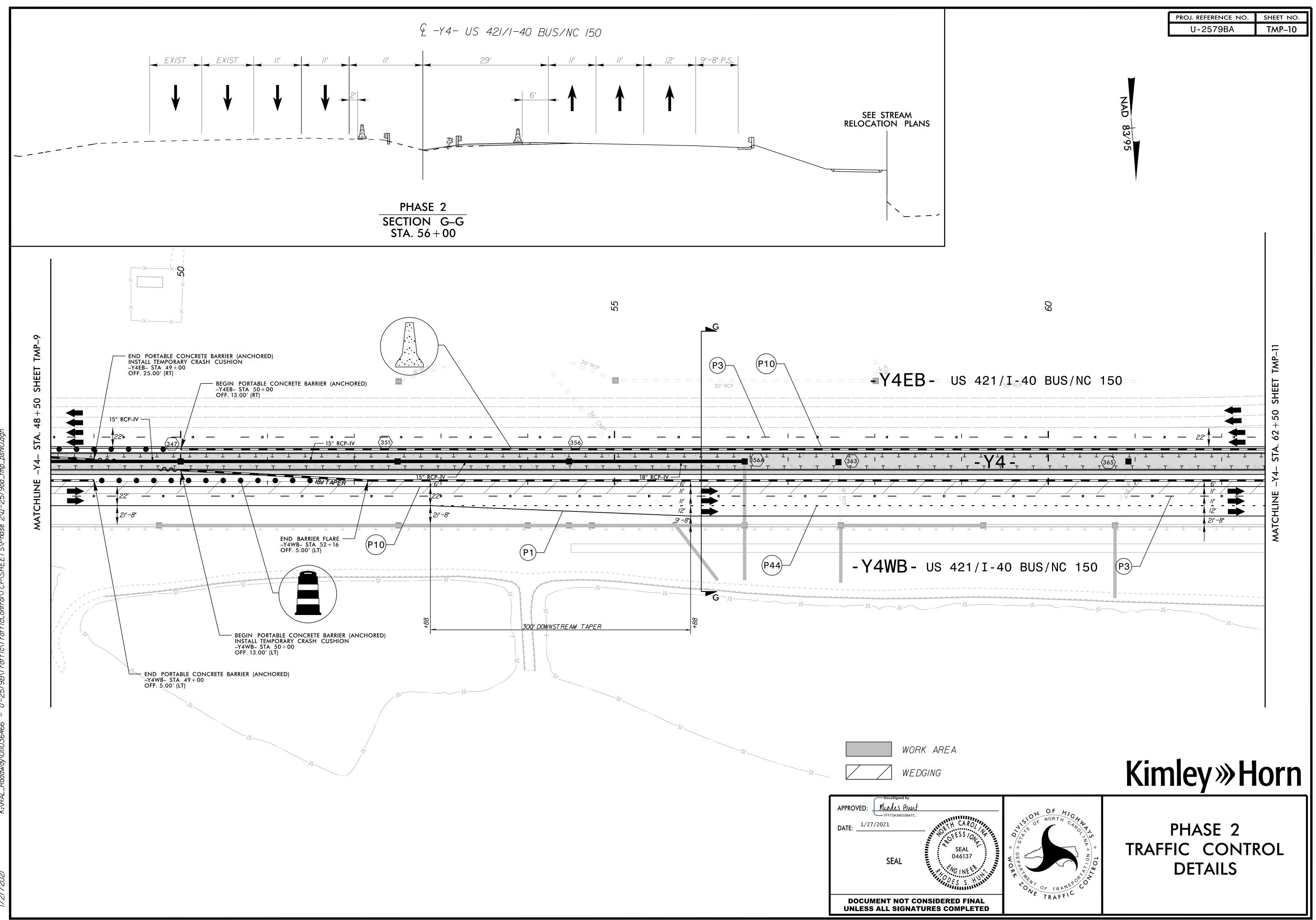


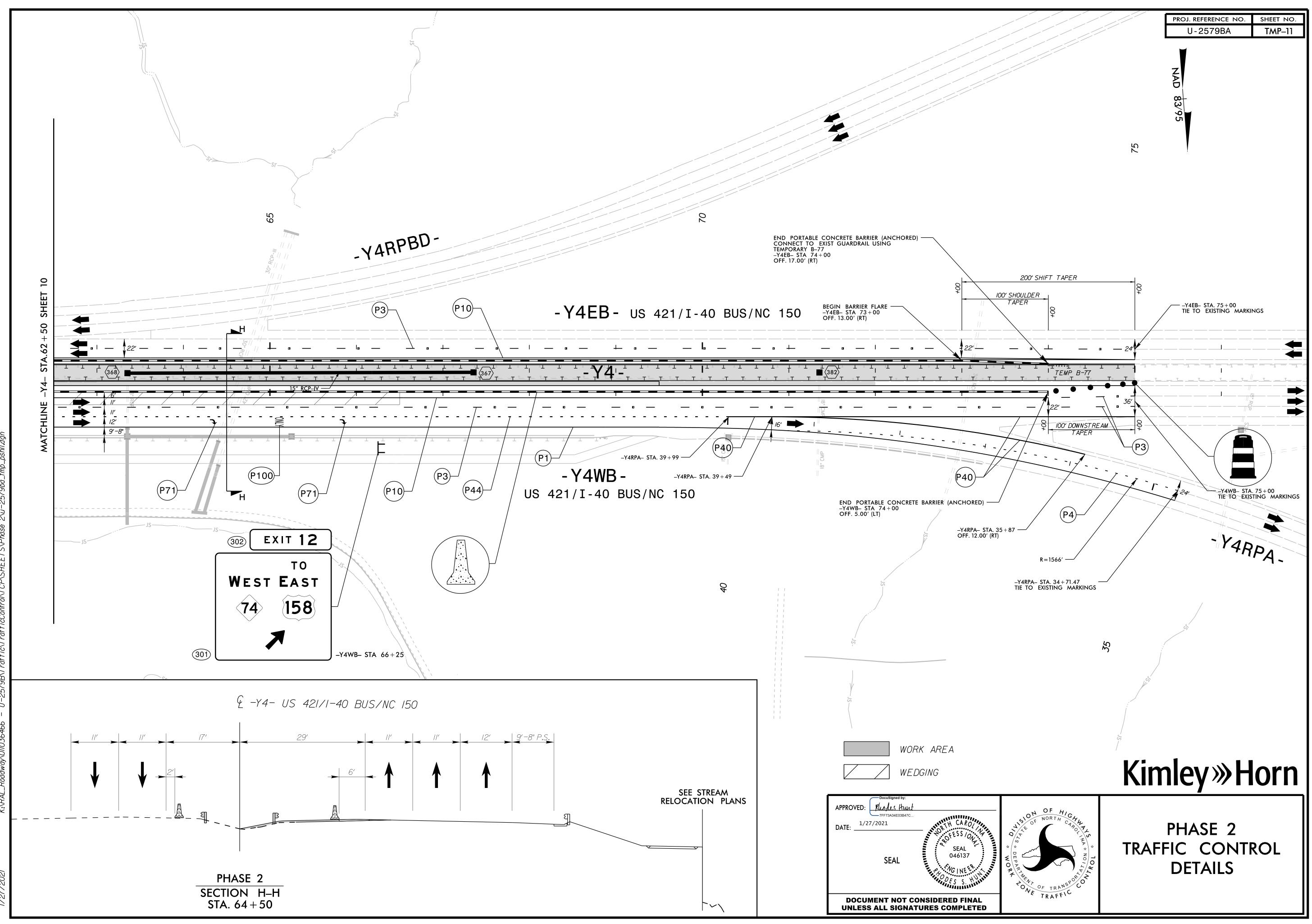


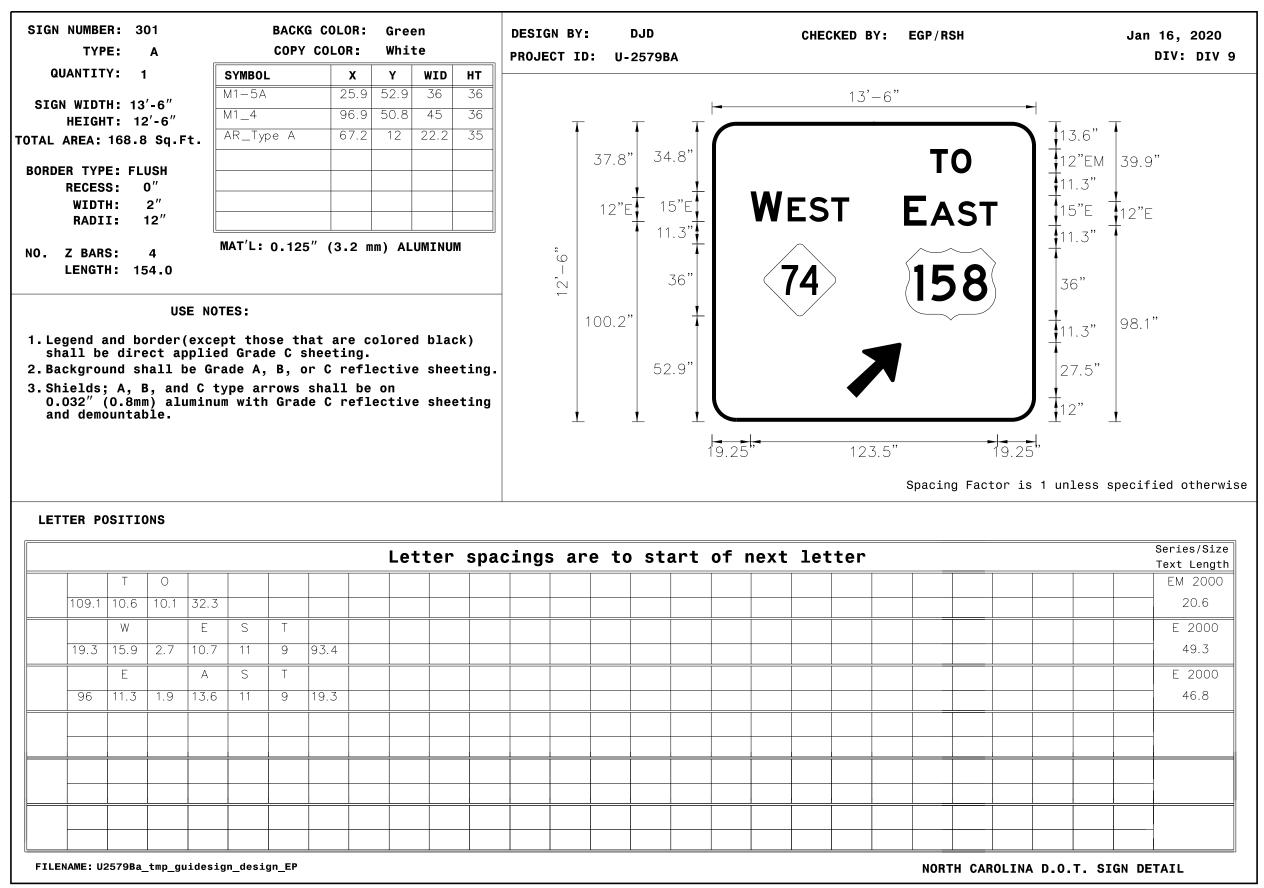


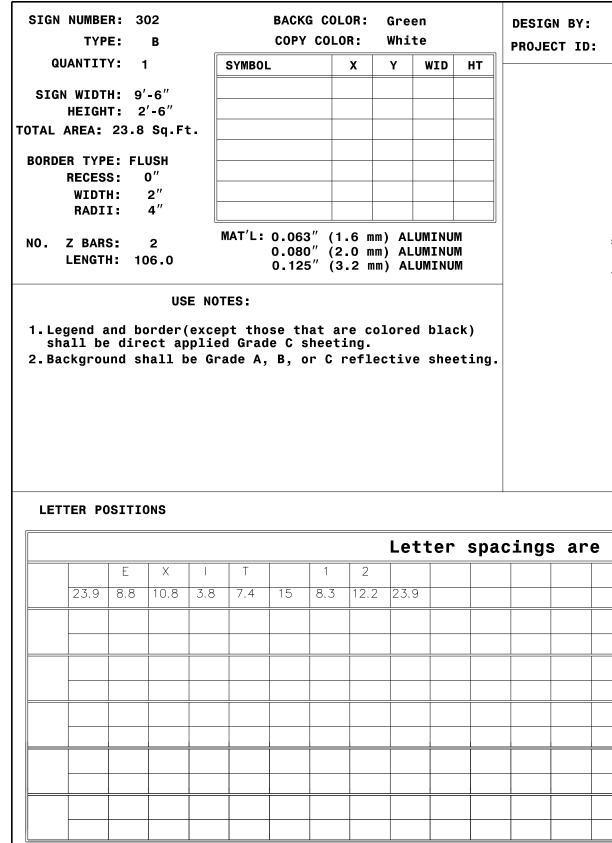




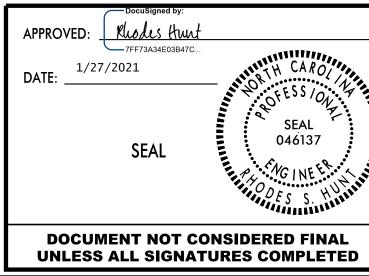












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