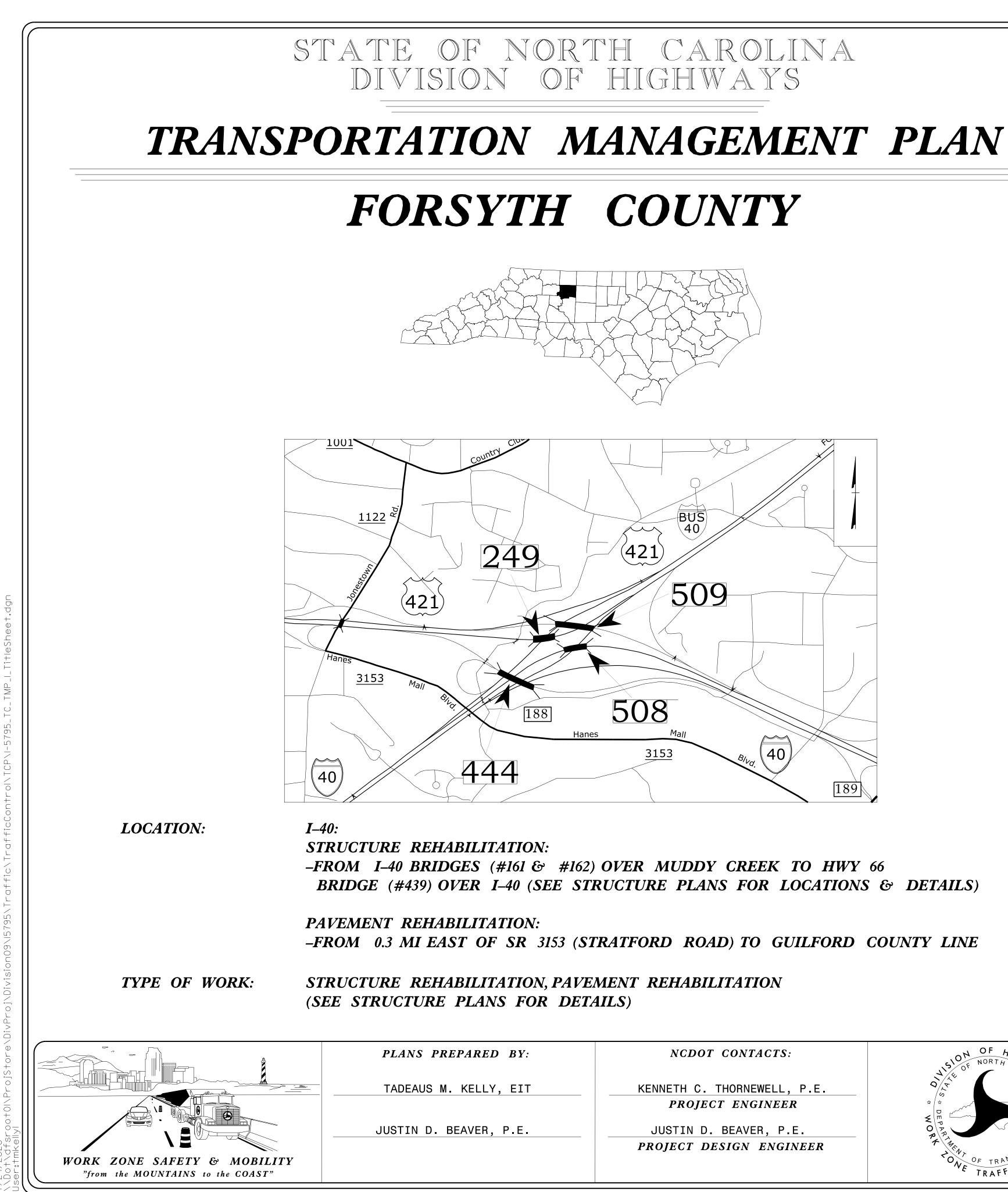
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Ιλ	IDEX OF SHEETS	SHEET NO. TMP–1
SHEET NO.	TITLE	
TMP - 1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS	
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND	
TMP-2	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)	
TMP-2A	OFF SITE DETOUR - I-40 EAST	
TMP-2B	TYPICAL RAMP DETOUR	
TMP-2C	WORK ZONE VARIABLE SPEED LIMIT REDUCTION	
TMP-3	PHASING	0
TMP-4	RIGHT LANE CLOSURE DETAIL STRUCTURE 444	
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TMP-18	LEFT LANE CLOSURE DETAIL STRUCTURE 509	
TMP-19	LEFT LANE CLOSURE DETAIL STRUCTURE 509	

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APPROVED: Kenneth C. Thornewell fr., P.C. 1E991EF27373405 DATE: 7/24/2020	
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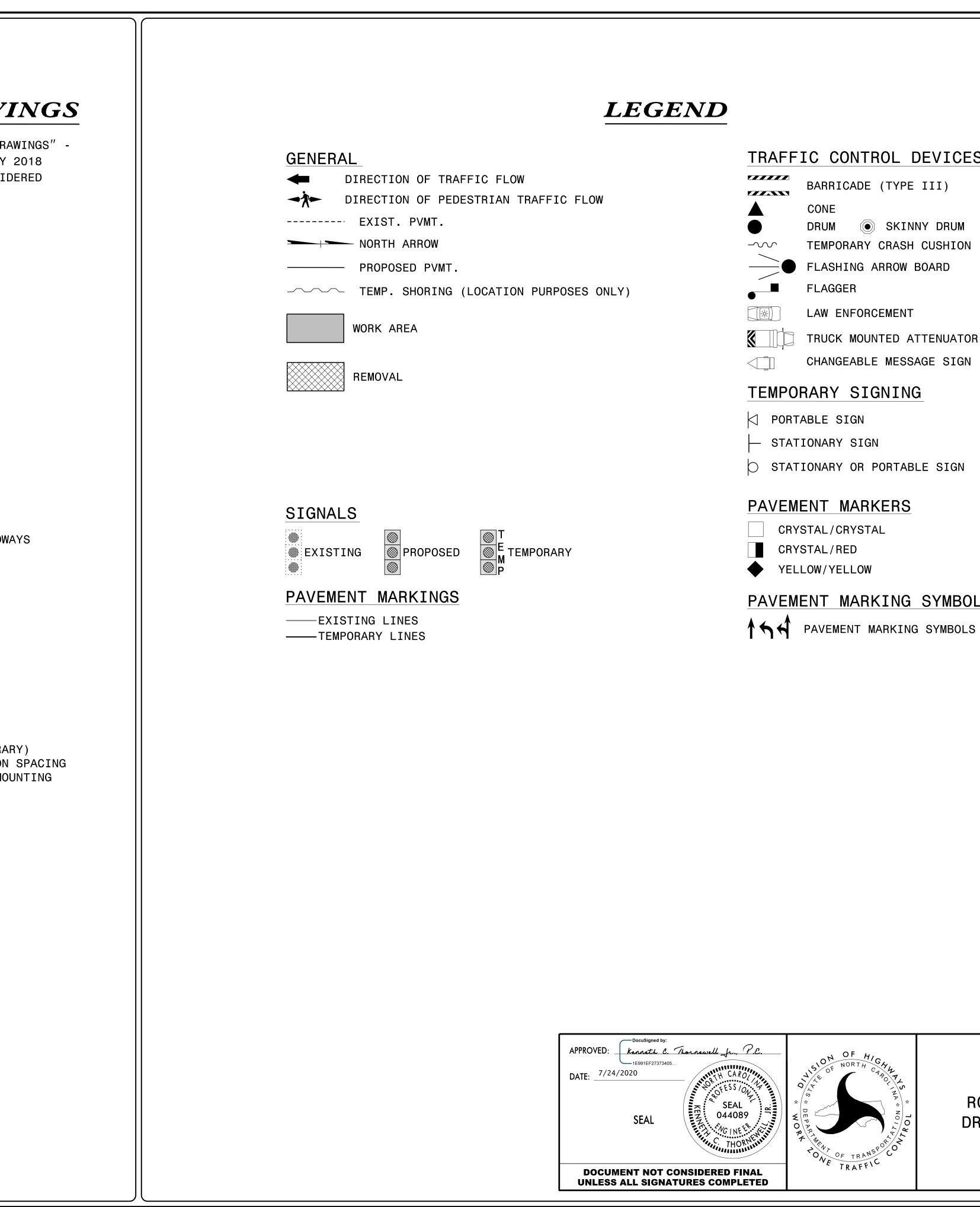
ROADWAY STANDARD DRAWINGS

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 WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	
1115.01	
1130.01	DRUMS
1135.01	CONES
1145.01	
1150.01	
1160.01	
1165.01	
1170.01	
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWA
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1205.15	PAVEMENT MARKINGS - SUPERSTREETS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORAF
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOU
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION



		PROJ. REFERENCE NO.	SHEET NO.
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	IC CONTROL DEVICES		
	BARRICADE (TYPE III)		
	CONE		
	DRUM 🔘 SKINNY DRUM 🎯 🗌	TUBULAR MARKER	
\sim	TEMPORARY CRASH CUSHION		
	FLASHING ARROW BOARD		
	FLAGGER		
	LAW ENFORCEMENT		
	TRUCK MOUNTED ATTENUATOR (TM	A)	
, L	CHANGEABLE MESSAGE SIGN		
	RARY SIGNING		
	ABLE SIGN		

PAVEMENT MARKING SYMBOLS

ROADWAY STANDARD DRAWINGS & LEGEND

GENERAL NOTES

	CHANGE DETAIL IN DUE SUPPLE	_S, A PLICA	AND RO) Dadw R uni	AY DE DESIF	ETAIL RED C	S A VER	RE N LAPF	NOT PING	ATTA i OF	AINA DEV	BLE ICES	TO M
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TI	ME RES	[RIC	TIONS										
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	NC-66												
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B)	EXCEP ALL 0	Г AS ГНЕR	ALLO ROAD	NED S DUI	THROU RING	JGH A THE	NOT FOL	HER LOWI	ICT [NG	, DO RES	D NO FRIC	T CL	OSE S:
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	ALL O	THER	ROAD	S				MON	IDAY	THF	ROUG	H SU	NDAY
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		FOR	ANY DIREC							НАТ	CRE	ATES	UNU
	2.	JAN	NEW JARY NUNT	2ND.	IF	NEW	YEA	R'S	DAY	IS	ON A	A FR]	[DAY
	3.	FOR	EAST	ER, I	BETWE	ΞΕΝ Τ	ΉE	HOUF	rs o	F 5	:00	A.M.	THU
	4.	FOR	MEMO	RIAL	DAY	, BET	WEE	ΝΤΗ	IE H	OURS	5 OF	5:0	0 A.
	5.	FOR INDE	INDE EPEND	PENDI ENCE	ENCE DAY	DAY, AND	BE 8:0	TWEE O P.	EN T .M.	HE H THE	HOUR DAY	S OF AFT	5:0 ER I
		THE	INDEP HOUR TUES	S OF	5:0	DO A.	Μ. ΄	THE	THU	RSD	ΑY Β	TURD EFOR	AY, E IN
	6.	FOR	LABO	r da'	Y, BE	ETWEE	ΝΤ	HE F	IOUR	IS OF	- 5	:00	A.M.
	7.	FOR	THAN	KSGI	VING	DAY,	BE	TWEE	ΕΝ Τ	HE F	HOUR	S OF	5:0
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	SPEC.	IAL	EVENT	S									
	9.		WAKE R (4)										
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	11.	FOR THE	CAR STAR	RACE: T ANI	S, 00 D FOL	CCURI JR (4	NG) H	AT E OURS	BOWM S AF	IAN (TER	GRAY THE	STA END	DIUN OF
	12.		FOOT WEEN NT.										
LÆ	NE AND) SHC	DULDE	R CLO	DSURE	REQ	UIR	EMEN	ITS				
D)	THE		LANE E CLO R.										
E)	CLOS	SE TH	RSONN HE NE K ARE	ARES	T OPE	EN SH	IOUL	DER	USI	NG F	ROAD	WAY	STAN
F)	FAC: USIN	ILIT ^N NG R(rsonn Y and Dadwa' Or gi	WIT Y ST	HIN 5 ANDAF	5 FT RD DF	OF /	AN C	DPEN	TRA	AVEL	LAN	E, C
	WHEN FAC		RSONN Y AND	EL AI	ND/OF	R EQU	JIPM OF		ARE OPE	WOF	RKIN	G ON	THE NE,

BARRIER OR GUARDRAIL.

7/21/

- THE DETAIL DRAWINGS, STANDARD MEET FIELD CONDITIONS OR RESULT MODIFICATION MAY INCLUDE: MOVING, IRECTED BY THE ENGINEER.
- THE DURATION OF THE CONSTRUCTION DIRECTED BY THE ENGINEER.
- ALL RAMPS AND LOOPS, ON THE
- ONS

- OR NARROW A LANE OF TRAFFIC ON
- ONS

- AND SPECIAL EVENTS AS FOLLOWS:
- JSUALLY HIGH TRAFFIC VOLUMES,
- DECEMBER 31st TO 8:00 P.M. , SATURDAY, SUNDAY, OR MONDAY
- JRSDAY AND 8:00 P.M. MONDAY. .M. FRIDAY TO 8:00 P.M. TUESDAY. :00 A.M. THE DAY BEFORE INDEPENDENCE DAY. SUNDAY OR MONDAY THEN BETWEEN NDEPENDENCE DAY AND 8:00 P.M.
- FRIDAY AND 8:00 P.M. TUESDAY. :00 A.M. TUESDAY TO 8:00 P.M. MONDAY. THE FRIDAY BEFORE THE WEEK OF SDAY AFTER THE WEEK OF CHRISTMAS.
- JRING AT GROVES STADIUM, BETWEEN HOURS AFTER THE END OF THE GAMES. EEN THE HOURS OF 5:00 A.M. THE DAY HE DAY AFTER THE END OF THE FAIR. , BETWEEN FOUR (4) HOURS BEFORE THE RACES. T WINSTON-SALEM STATE UNIVERSITY, OUR (4) HOURS AFTER THE END OF THE
- RK IS NOT BEING PERFORMED BEHIND GER NEEDED OR AS DIRECTED BY THE
- 15 FT OF AN OPEN TRAVEL LANE, NDARD DRAWING NO. 1101.04 UNLESS OR A LANE CLOSURE IS INSTALLED. SHOULDER ADJACENT TO AN UNDIVIDED CLOSE THE NEAREST OPEN TRAVEL LANE THE WORK AREA IS PROTECTED BY
- SHOULDER ADJACENT TO A DIVIDED CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY

- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WO OR DIVIDED FACILITY, CLOSE THE LANE A STANDARD DRAWINGS, OR AS DIRECTED BY PERSONNEL AND/OR EQUIPMENT REMAIN WITH
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 OR LOOP WITHIN THE SAME LOCATION UNLES
- I) DO NOT INSTALL MORE THAN 3 MILES OF LA BEGINNING OF THE MERGE TAPER TO THE EN
- J) FOR SIMULTANEOUS LANE CLOSURES IN ANY LIMITS, A MINIMUM OF THREE (3) MILES DISTANCE BETWEEN LANE CLOSURES SHALL BEGINNING OF THE TAPER OF THE NEXT LAN
- TRAFFIC PATTERN ALTERATIONS
- K) NOTIFY THE ENGINEER THIRTY (30) CALENI SIGNING
- L) INSTALL ADVANCE WORK ZONE WARNING SIG TRAVEL LANE AND NO MORE THAN THREE (3)
- PROVIDE SIGNING AND DEVICES REQUIRED M) STANDARD DRAWINGS AND TRAFFIC CONTROL
 - PROVIDE SIGNING REQUIRED FOR THE OFF-S PLANS.
- N) ENSURE ALL NECESSARY SIGNING IS IN PLA TRAFFIC CONTROL DEVICES
- 0) WHEN LANE CLOSURES ARE NOT IN EFFECT IN FEET THAN TWICE THE POSTED SPEED L OFF THE EDGE OF AN OPEN TRAVELWAY. REI SECTIONS 1130 (DRUMS), 1135 (CONES) AN
- P) PLACE TYPE III BARRICADES, WITH "ROAD TO CLOSE ENTIRE ROADWAY.
- Q) PLACE ADDITIONAL SETS OF THREE CHANNEL TRAVELWAY ON 500 FT CENTERS WHEN UNOPE

MANA **STRA**

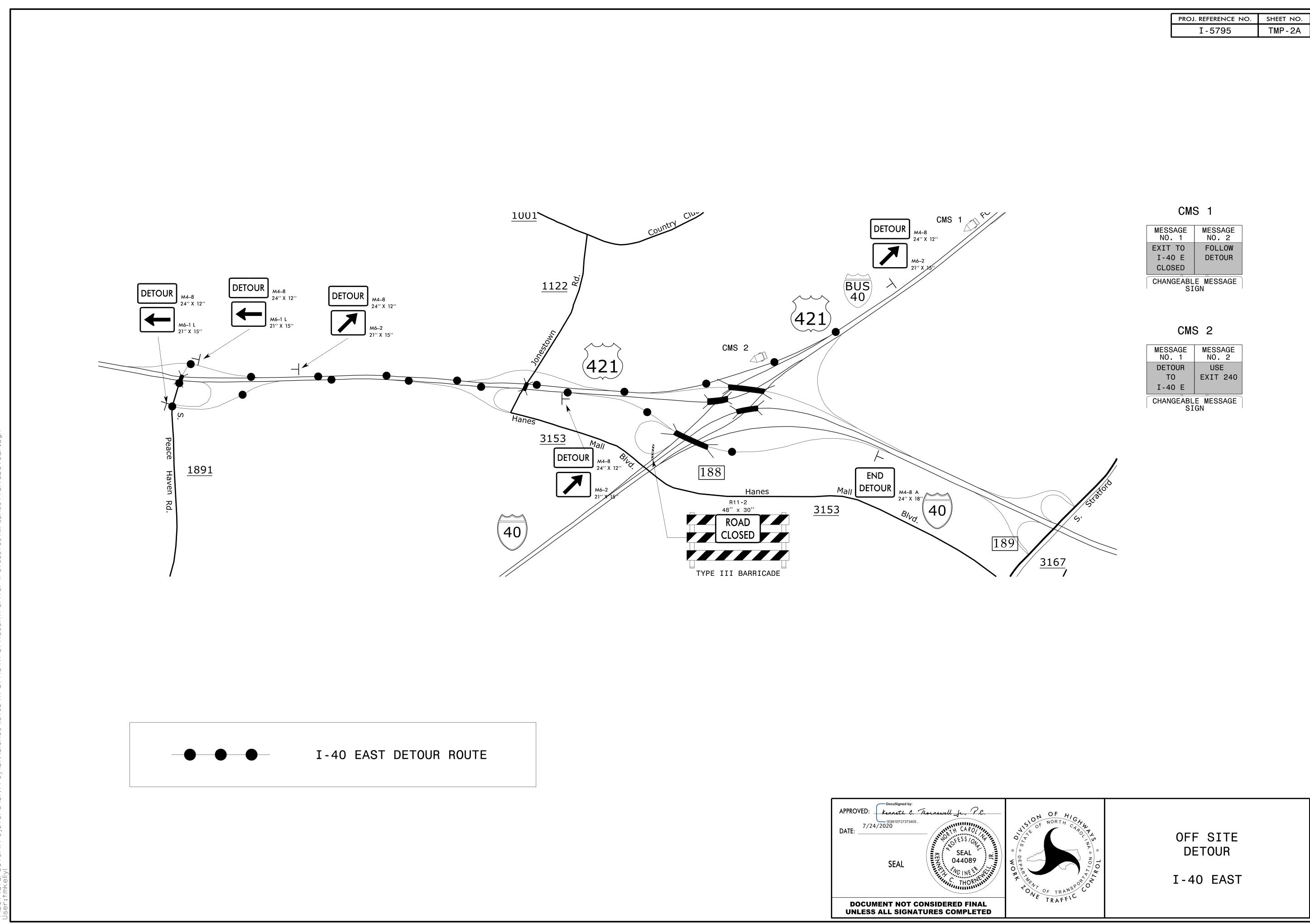
THE FOLLOWING LISTED WORK ZONE STR THIS TRANSPORTATION MANAGEMENT PL

RECOMMENDED STRATEGIES:

-LANE SHIFTS OR CLOSURES -RAMP CLOSURES / RELOCATION -OFF-SITE DETOURS / USE OF AL

APPROVED:	Thornewell Jr., P.E.
DATE: 7/24/2020	TH CARO
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			PROJ. REFERENCE NO. I - 5795	sheet no. TMP-2
ACCORDING TO ⁻ THE ENGINEER	N A LANE OF TRAVEL OF THE TRAFFIC CONTROL PL . CONDUCT THE WORK SO ED TRAVEL LANE.	ANS, ROADWAY		
	IDES OF AN OPEN TRAVEL WITH GUARDRAIL OR BAF			
LANE CLOSURE (END OF THE LAN	ON I-40 MEASURED FROM NE CLOSURE.	THE		
SHALL BE PROV	ON ON ANY ROAD WITHIN VIDED BETWEEN LANE CLC FROM THE END OF ONE CL	DSURES. THE		
NDAR DAYS PRIC	OR TO ANY TRAFFIC PATT	FERN ALTERATIO	Ν.	
	IS WITHIN 40 FT FROM TO THE BEGINNING OF C			
TO CLOSE THE _ PLANS.	ROAD ACCORDING TO THE	E ROADWAY		
-SITE DETOUR F	ROUTE AS SHOWN IN THE	TRAFFIC CONTR	DL	
_ACE PRIOR TO	ALTERING ANY TRAFFIC	PATTERN.		
_IMIT (MPH) EX EFER TO STANDA	LIZING DEVICES IN WORK XCEPT, 10 FT ON-CENTEF ARD SPECIFICATIONS FOF NNY DRUMS) FOR ADDITIC	R IN RADII, AN R ROADS AND ST	D 3 FT RUCTURES	
D CLOSED" SIG	N R11-2 ATTACHED, OF S	SUFFICIENT LEN	GTH	
	ES DRUMS PERPENDICULAF RE CLOSED TO TRAFFIC.	R TO THE EDGE	DF	
IGEMI ATEGI				
11201				
TRATEGIES AF _AN (TMP).	RE RECOMMENDED FOR	INCLUSION W	LTHIN	
ALTERNATIVE	BOUTES			
vell_p., P.C.	OF HIG			
OFFESSION	NORTH CARLS	TR	ANSPORTATIO	
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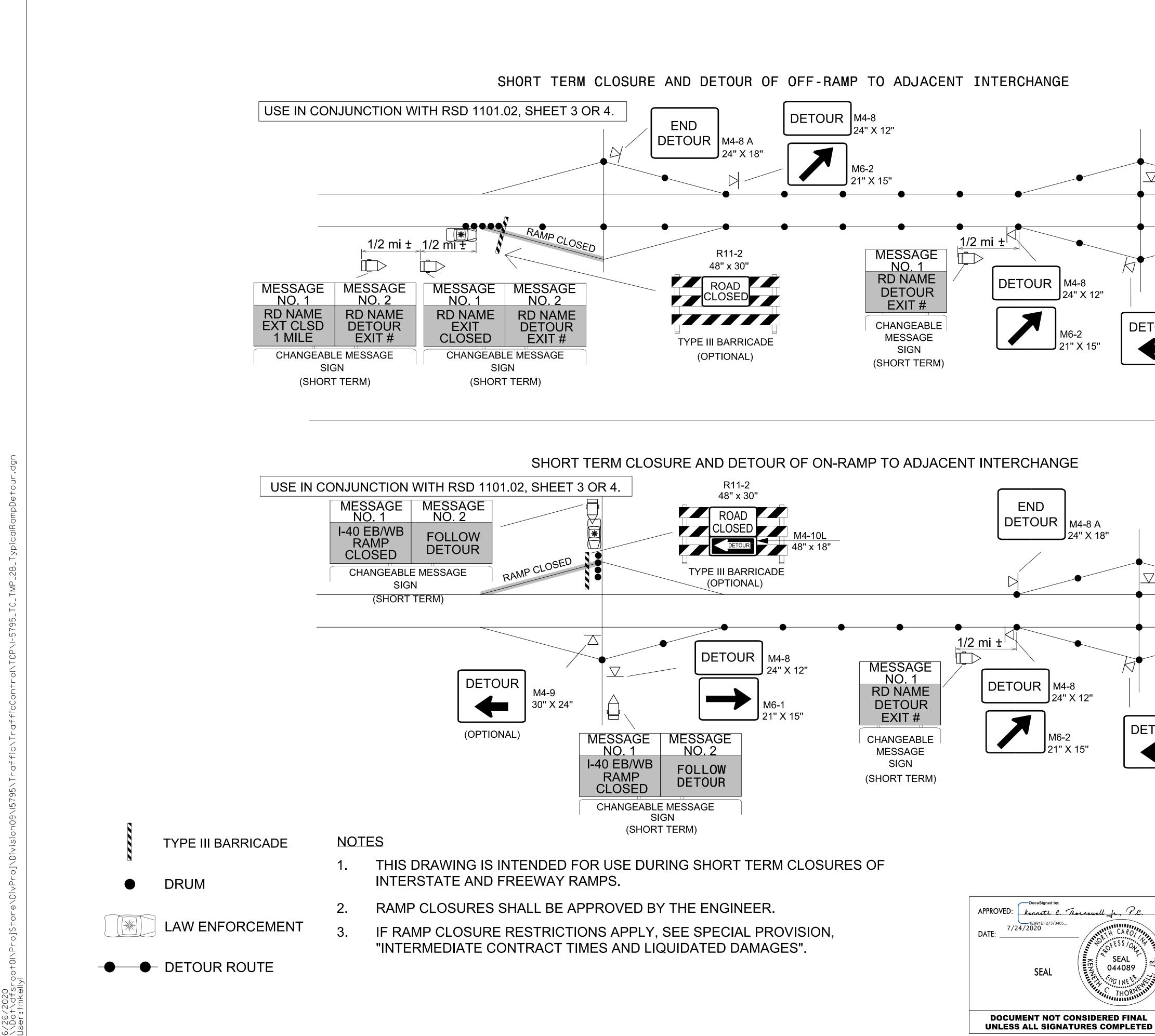
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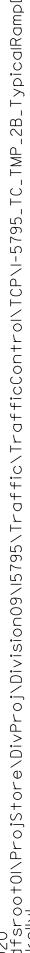
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MESSAGE	MESSAGE					
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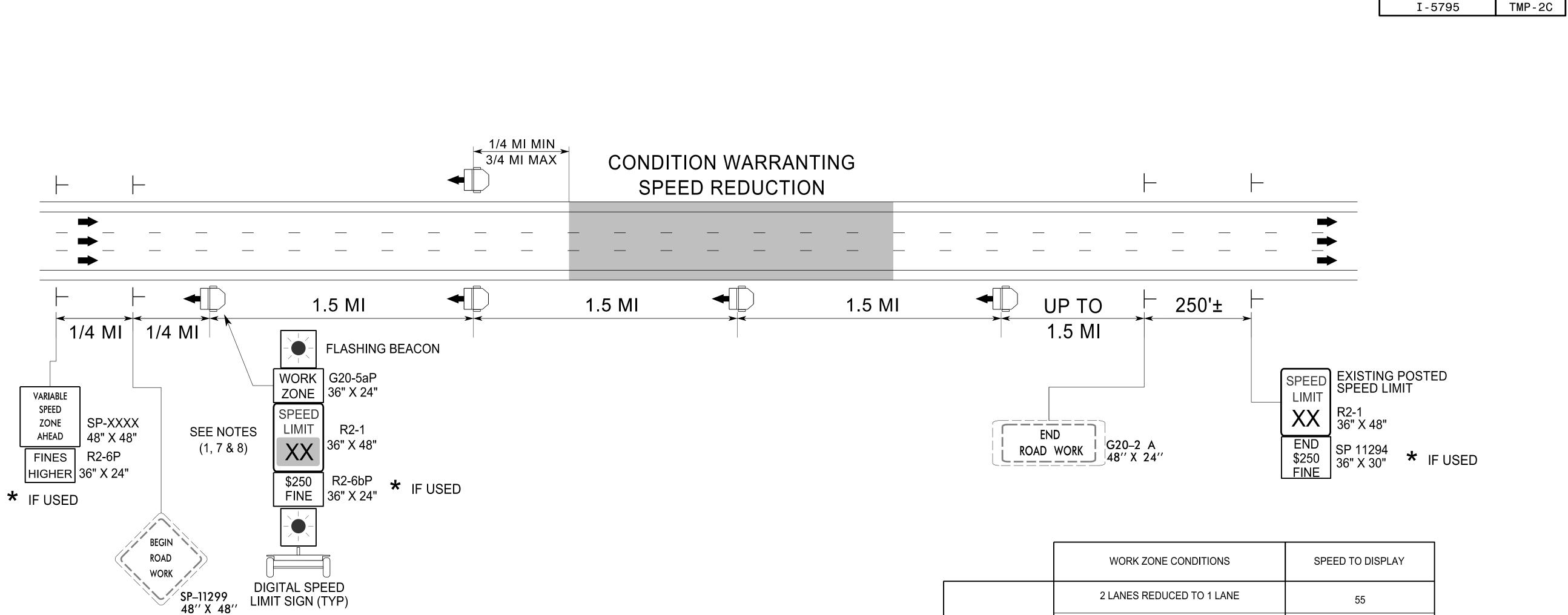


MESSAGE	MESSAGE					
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то	EXIT 240					
I-40 E						
CHANGEABLE MESSAGE						





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H CAROLINA	ALSON OF HIGH NORTH CAPA OLSOF *				
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RED FINAL OMPLETED	NE TRAFFIC				



NOTES

BOTH THE INSIDE AND OUTSIDE SHOULDERS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER. AT ALL OTHER LOCATIONS DOWNSTREAM, PLACE A SINGLE DIGITAL SPEED LIMIT SIGN ON THE OUTSIDE SHOULDER.

IF SIGNS ARE NOT HIGHLY VISIBLE TO ALL MOTORISTS, SUPPLEMENTAL DIGITAL SPEED LIMIT SIGNS ARE PERMITTED TO BE INSTALLED ON THE MEDIAN SHOULDER.

- PROJECT.
- SPACED APPROXIMATELY 1.5 MILES THROUGHOUT THE ACTIVE WORK AREA, UNLESS DIRECTED OTHERWISE.
- 4. NCDOT HAS SOLE AUTHORITY OF THE SPEED LIMITS DISPLAYED ON THE DIGITAL SPEED LIMIT SIGNS.
- LIMIT ON A FACILITY SHALL REMAIN UNCHANGED.
- 6. THE SPEED DISPLAYED SHALL BE THE LOWER OF THE EXISTING SPEED LIMIT OR THE SPEED IN THE WORK ZONE CONDITION CHART.
- LIMIT SHALL BE DISPLAYED ON ALL OTHER DIGITAL SPEED LIMIT SIGNS.
- REMAIN OFF AT ALL OTHER TIMES.

1. WITHIN $\frac{1}{4}$ TO $\frac{3}{4}$ MILE UPSTREAM OF CONDITION WARRANTING A SPEED REDUCTION, PLACE A DIGITAL SPEED LIMIT SIGN ON

2. THE DIGITAL SPEED LIMIT SIGNS TAKE PRECEDENCE OVER EXISTING SPEED LIMIT SIGNS AND REMAIN UPRIGHT AND VISIBLE AT ALL TIMES. ALL EXISTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED FOR DURATION OF THE

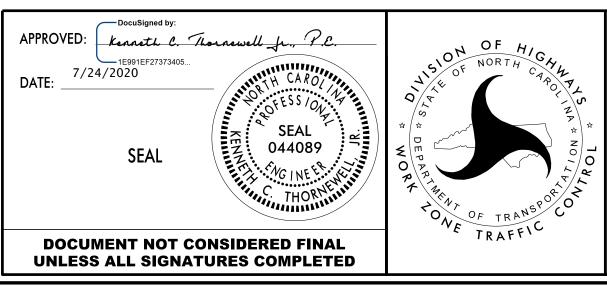
3. THE DIGITAL SPEED LIMITS SIGNS WILL BE INSTALLED (TRAILER MOUNTED OR STATIONARY MOUNTED) IN ADVANCE AND

5. THE WORK ZONE VARIABLE SPEED LIMIT AND THE \$250 SPEEDING PENALTY ARE SEPARATE ORDINANCES THAT MUST BE SIGNED BY THE STATE TRAFFIC ENGINEER TO BE VALID AND ENFORCEABLE. WITHOUT A SIGNED ORDINANCE, THE SPEED

7. THE SPEED LIMIT SHALL ONLY BE REDUCED IN AREAS MEETING WORK ZONE CONDITION WARRANTS. THE EXISTING SPEED

8. THE BEACONS ON THE DIGITAL SPEED LIMIT SIGNS SHALL ONLY FLASH DURING TIMES THE SPEED IS REDUCED, AND

★ SEE NOTE 6



WORK ZONE VARIABLE SPEED LIMIT REDUCTION

PROJ. REFERENCE NO.

SHEET NO.

	••• === •• • ••• = ••
2 LANES REDUCED TO 1 LANE	55
3 LANES REDUCED TO 1 LANE	55
3 LANES REDUCED TO 2 LANES	60
4 LANES REDUCED TO 1 LANE	55
4 LANES REDUCED TO 2 LANES	60
4 LANES REDUCED TO 3 LANES	65
OPEN LANE WITH CONTINUOUS BARRIER ON BOTH SHOULDERS	55
OPEN LANE WITH CONTINUOUS BARRIER ON 1 SHOULDER	60
OR 2 OPEN LANES WITH CONTINUOUS BARRIER ON BOTH SHOULDERS	60
OR 2 OPEN LANES WITH CONTINUOUS BARRIER ON 1 SHOULDER	65
PEN LANES WITH BARRIER CONTINUOUS ON BOTH SHOULDERS	65
PEN LANES WITH BARRIER CONTINUOUS ON 1 SHOULDER	EXISTING
UNEVEN LANES	60

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES THE CONT SHALL INSTALL ALL ADVANCE WARNING SIGNS AND TRAFFIC C DEVICES. FIELD VERIFY LOCATIONS WITH RESIDENT ENGINEE PRIOR TO INSTALLATION. BRIDGE REHABS MAY BE COMPLETED IN ANY ORDER, ONE AT A OR AS DIRECTED BY THE ENGINEER. SEE STRUCTURE PLANS FOR PROPOSED REHABILITATION IMPROVEMENTS. BRIDGE STRUCTURE #444 THE CONTRACTOR SHALL COMPLETE THE WORK ON STRUCTURE # STEP 1 THROUGH STEP 4, IN 21 CONSECUTIVE DAYS USING LONG-TERM LANE CLOSURES. (SEE INTERMEDIATE CONTRACT T AND LIQUIDATED DAMAGES) STEP 1: USING RSD 1101.01, SHEET 1 OF 3, INSTALL ADVANCE WARN SIGNS ON US-421 SOUTH. INSTALL DETOUR SIGNS AND TRAFF CONTROL DEVICES ACCORDING TO TMP-2 THRU TMP-7. USING CLOSE LOOP RAMP TO I-40 EAST ON I-40 WEST FOR DURATION WORK. STEP 2: USING TMP-4 THRU TMP-5 AND RSD 1101.02, SHEET 4 OF 14 INSTALL LONG-TERM LANE CLOSURE ON RIGHT SIDE OF THE RO IN ORDER TO BEGIN REHABILITATION WORK. STEP 3: SHIFT TRAFFIC CONTROL DEVICES TO OPPOSITE SIDE OF ROAD UNDER LONG-TERM LANE CLOSURE TO COMPLETE REMAINDER OF STRUCTURE REHABILITATION IMPROVEMENTS. STEP 4: UPON COMPLETION OF REHABILITATION WORK, REMOVE TRAFFIC CONTROL DEVICES, OPEN LOOP TO I-40 EAST AND RESTORE T TO NORMAL PATTERN. BRIDGE STRUCTURE #508 STEP 1: USING RSD 1101.01, SHEET 1 OF 3, INSTALL ADVANCE WARN SIGNS ON I-40 WEST. STEP 2: USING TMP-8 THRU TMP-11 AND RSD 1101.02, SHEET 8 OF 14 INSTALL DOUBLE LANE CLOSURE ALONG I-40 WEST DURING ALLOWABLE WORK HOURS. SHIFT TRAFFIC TO LEFT SIDE OF BF AND BEGIN REHABILITATION IMPROVEMENTS.

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RACTOR	STEP 3:	
ONTROL R	USING TMP-12 THRU TMP-15, SHIFT TRAFFIC CONTROL DEVICES TO OPPOSITE SIDE OF ROADWAY DURING ALLOWABLE WORK HOURS TO COMPLETE REMAINDER OF STRUCTURE REHABILITATION IMPROVEMENTS.	
TIME	STEP 4:	
	UPON COMPLETION OF REHABILITATION WORK, REMOVE TRAFFIC CONTROL DEVICES AND RESTORE TRAFFIC TO NORMAL PATTERN.	
	BRIDGE STRUCTURE #509	
444, IME	THE CONTRACTOR SHALL COMPLETE THE WORK ON STRUCTURE #509, STEP 1 THROUGH STEP 4, IN 21 CONSECUTIVE DAYS USING LONG-TERM LANE CLOSURES. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES)	
	STEP 1:	
IING	USING RSD 1101.01, SHEET 1 OF 3, INSTALL ADVANCE WARNING SIGNS ON I-40 WEST.	
IC TMP-5, N OF	STEP 2:	
	USING TMP-16 THRU TMP-17 AND RSD 1101.02, SHEET 4 OF 14, INSTALL LONG-TERM LANE CLOSURE ON RIGHT SIDE OF ROADWAY AND BEGIN REHABILITATION IMPROVEMENTS.	
, OADWAY	STEP 3:	
	USING TMP-18 THRU TMP-19, SHIFT TRAFFIC CONTROL DEVICES TO OPPOSITE SIDE OF ROADWAY USING LONG-TERM LANE CLOSURE TO COMPLETE REMAINDER OF STRUCTURE REHABILITATION IMPROVEMENTS.	
DWAY	STEP 4:	
	UPON COMPLETION OF REHABILITATION WORK, REMOVE TRAFFIC CONTROL DEVICES AND RESTORE TRAFFIC TO NORMAL PATTERN.	
C	PAVEMENT REHABILITATION AND ALL OTHER BRIDGE WORK	
RAFFIC	FOR PAVEMENT REHABILITATION AND ALL OTHER BRIDGE WORK, REFER TO TMP-2B AND THE ROADWAY STANDARD DRAWINGS FOR LANE CLOSURES AND FLAGGING OPERATIONS.	
IING		
4,	— DocuSigned by:	
RIDGE	APPROVED: Kenneth C. Then 1E991EF27373405 7/24/2020	ineweb
	DATE:	KENNE
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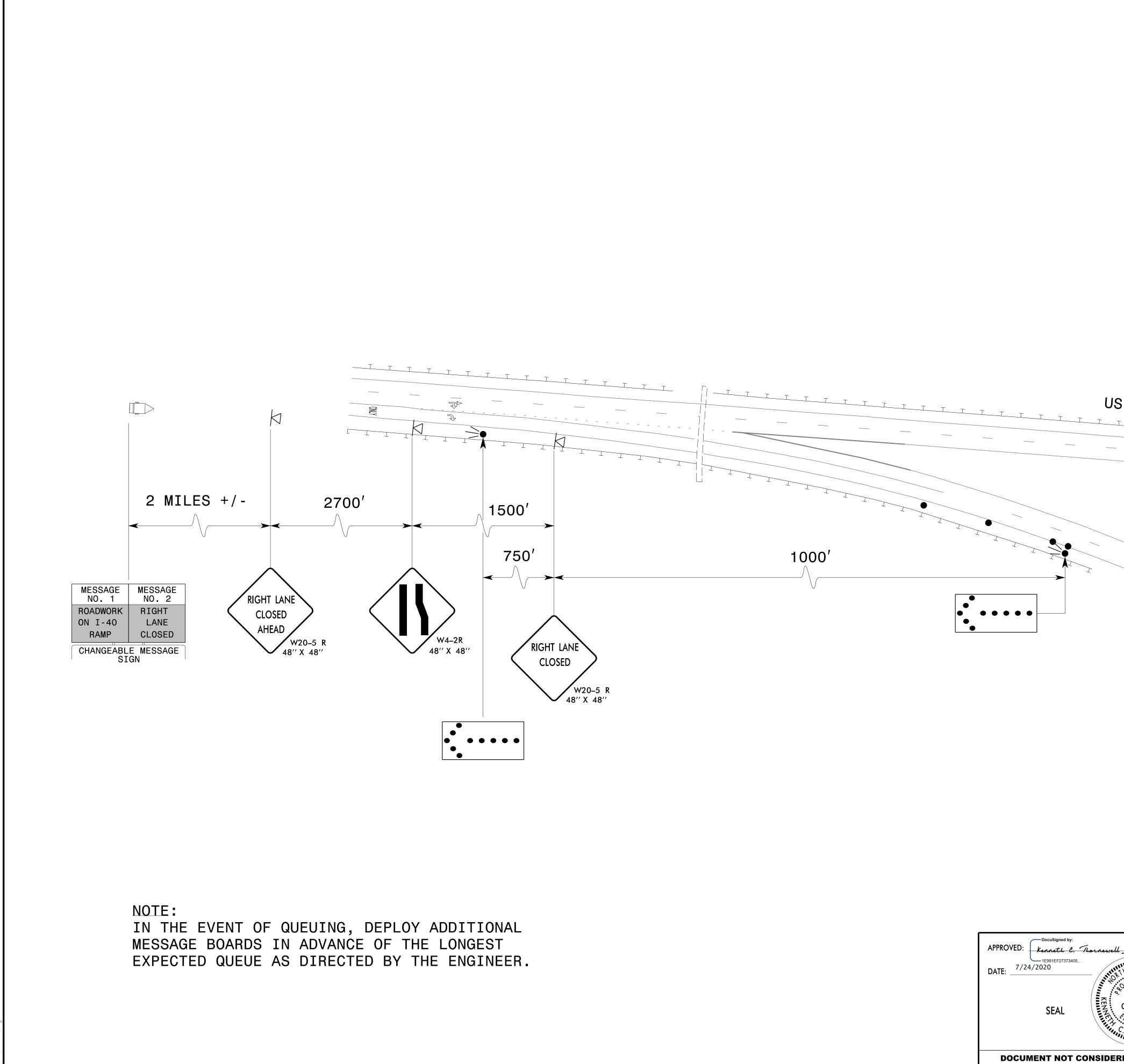
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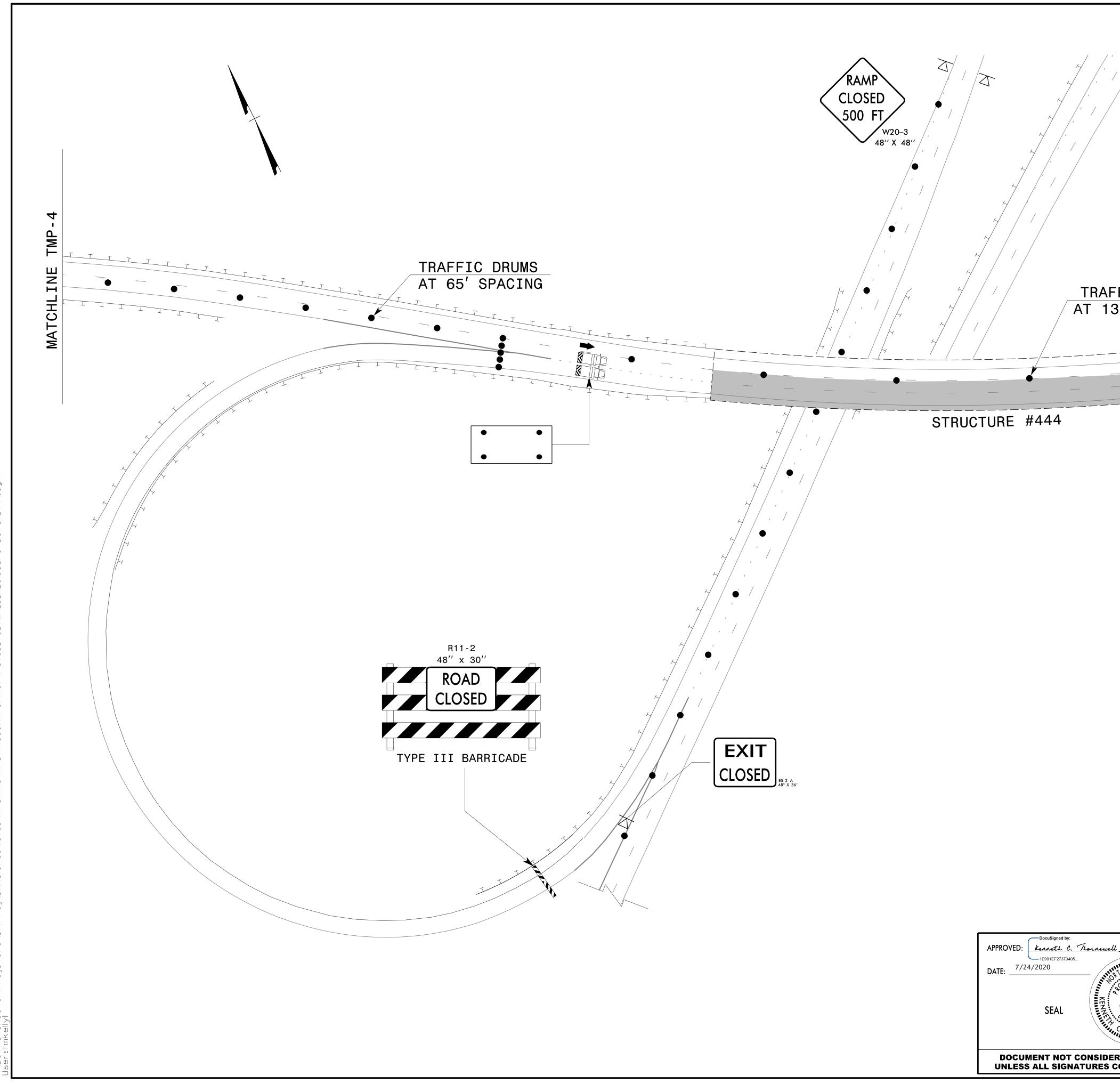
TMP-3



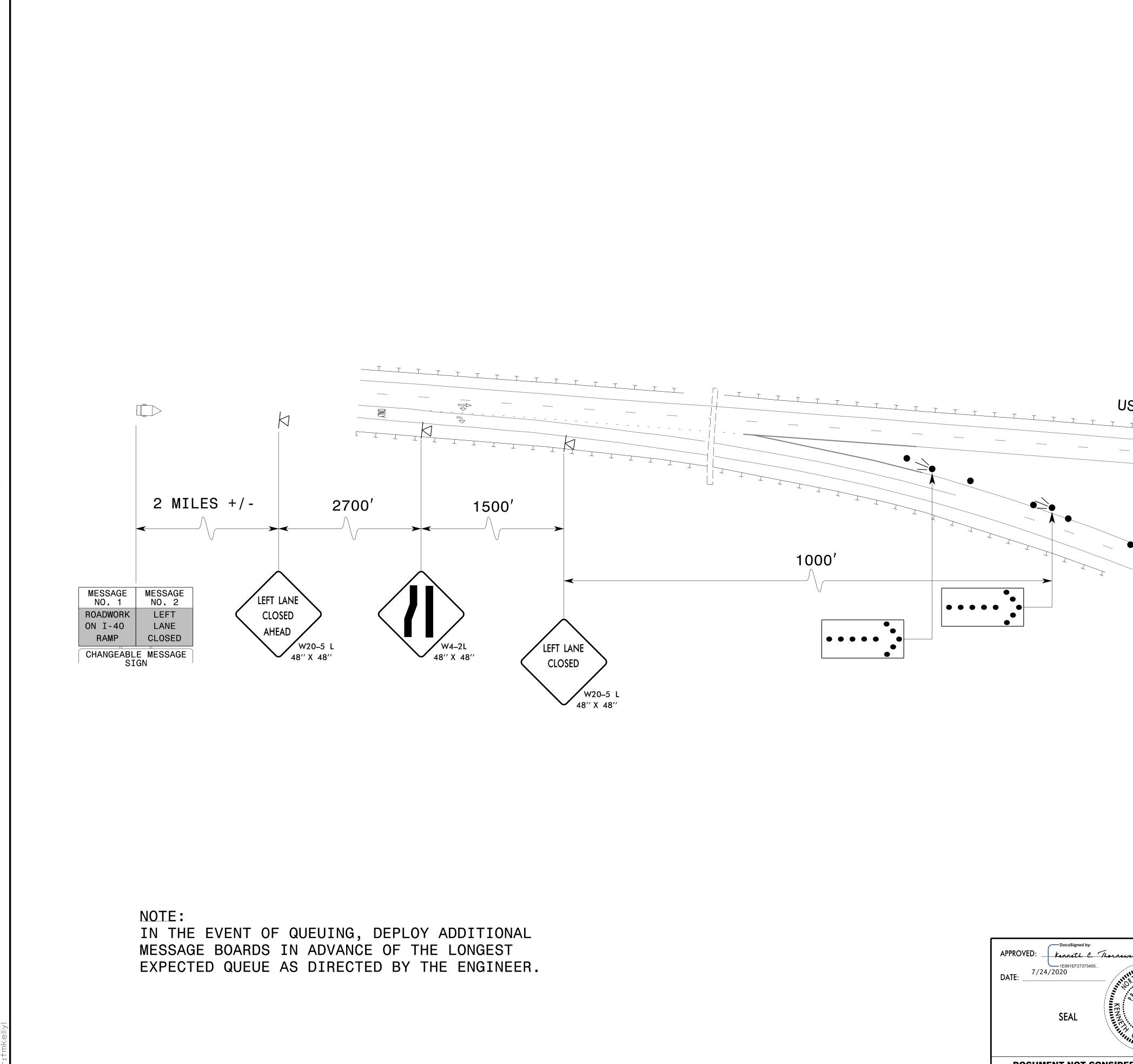


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SEAL *		RIGHT LANE	,
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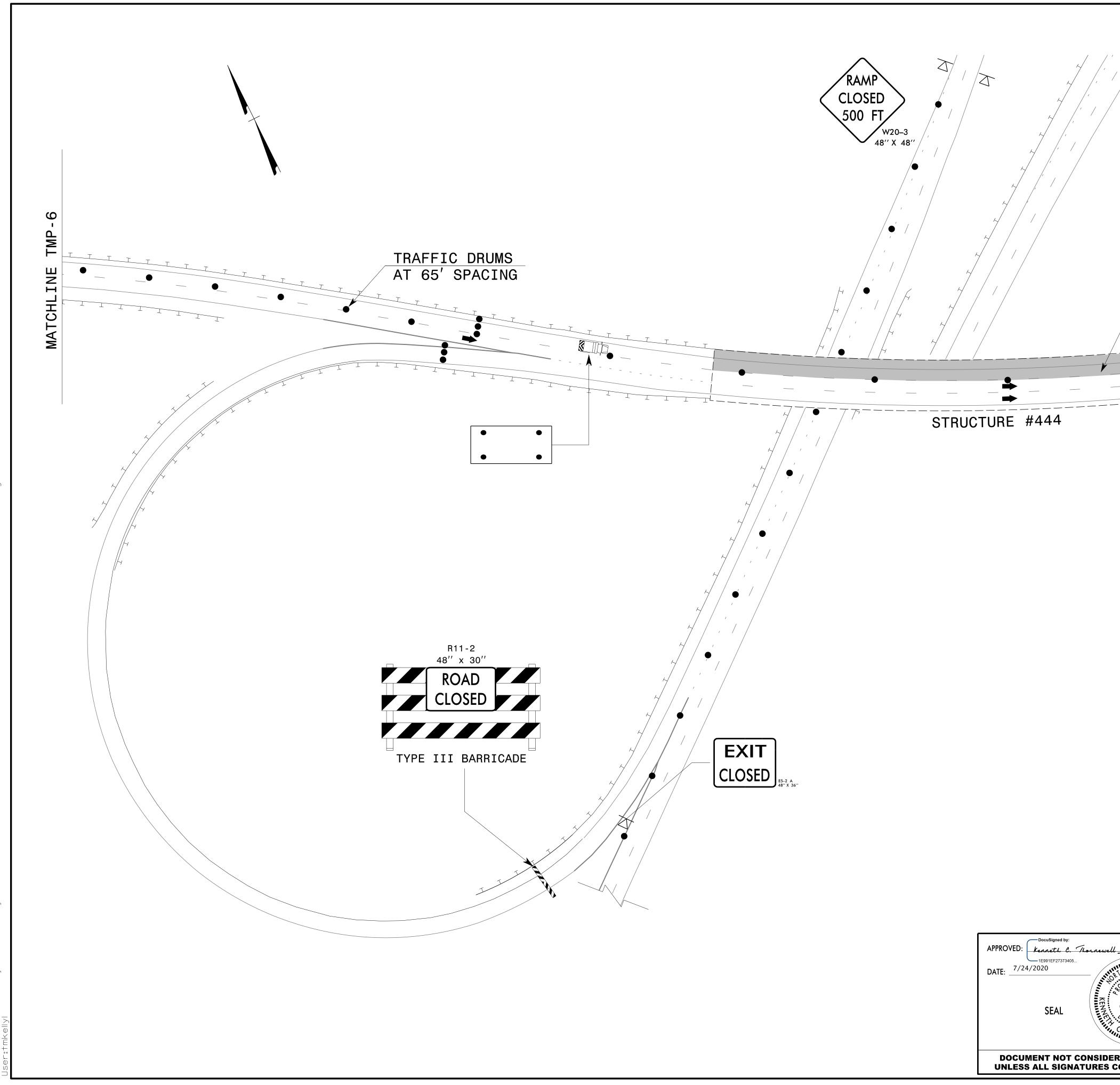


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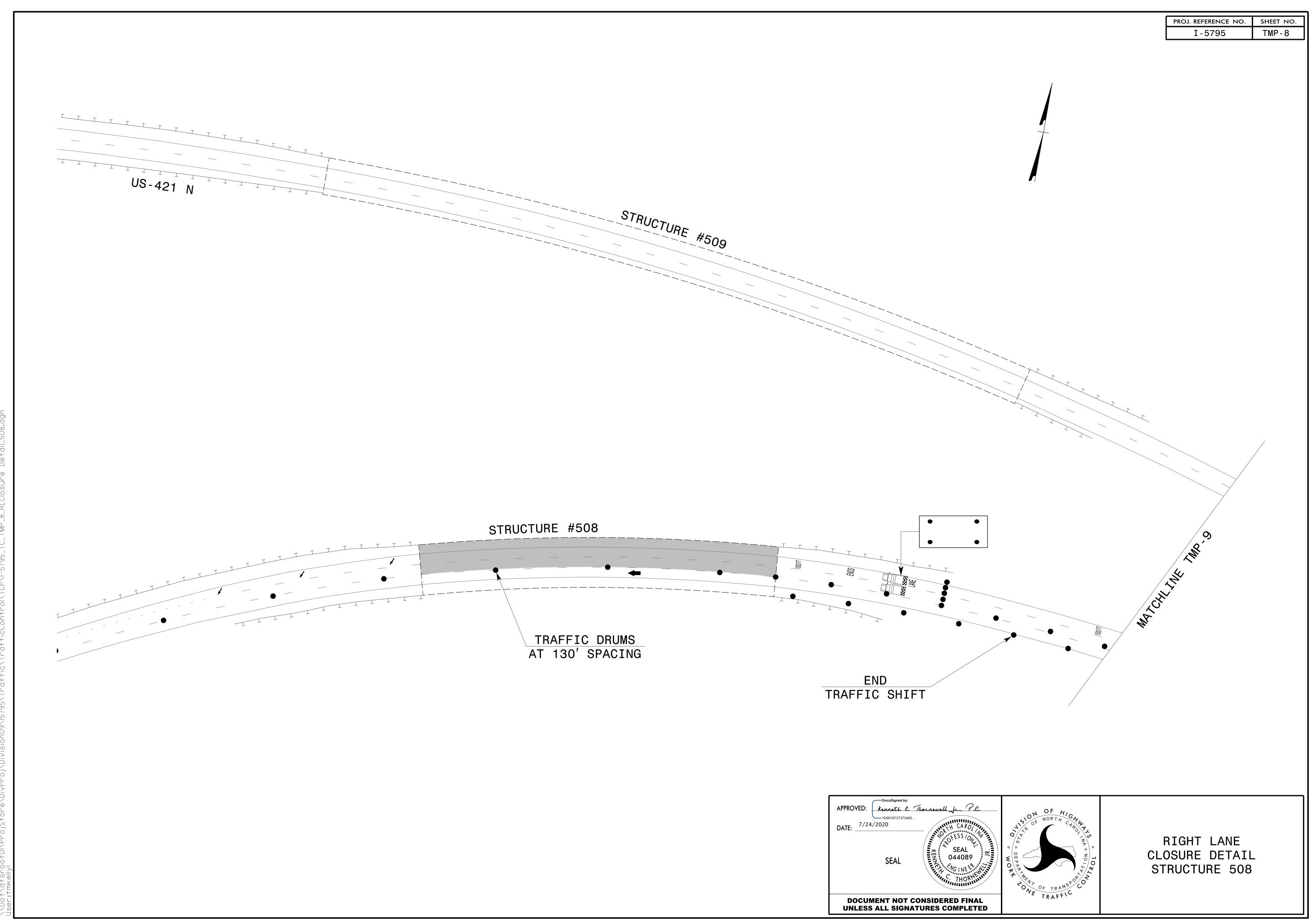
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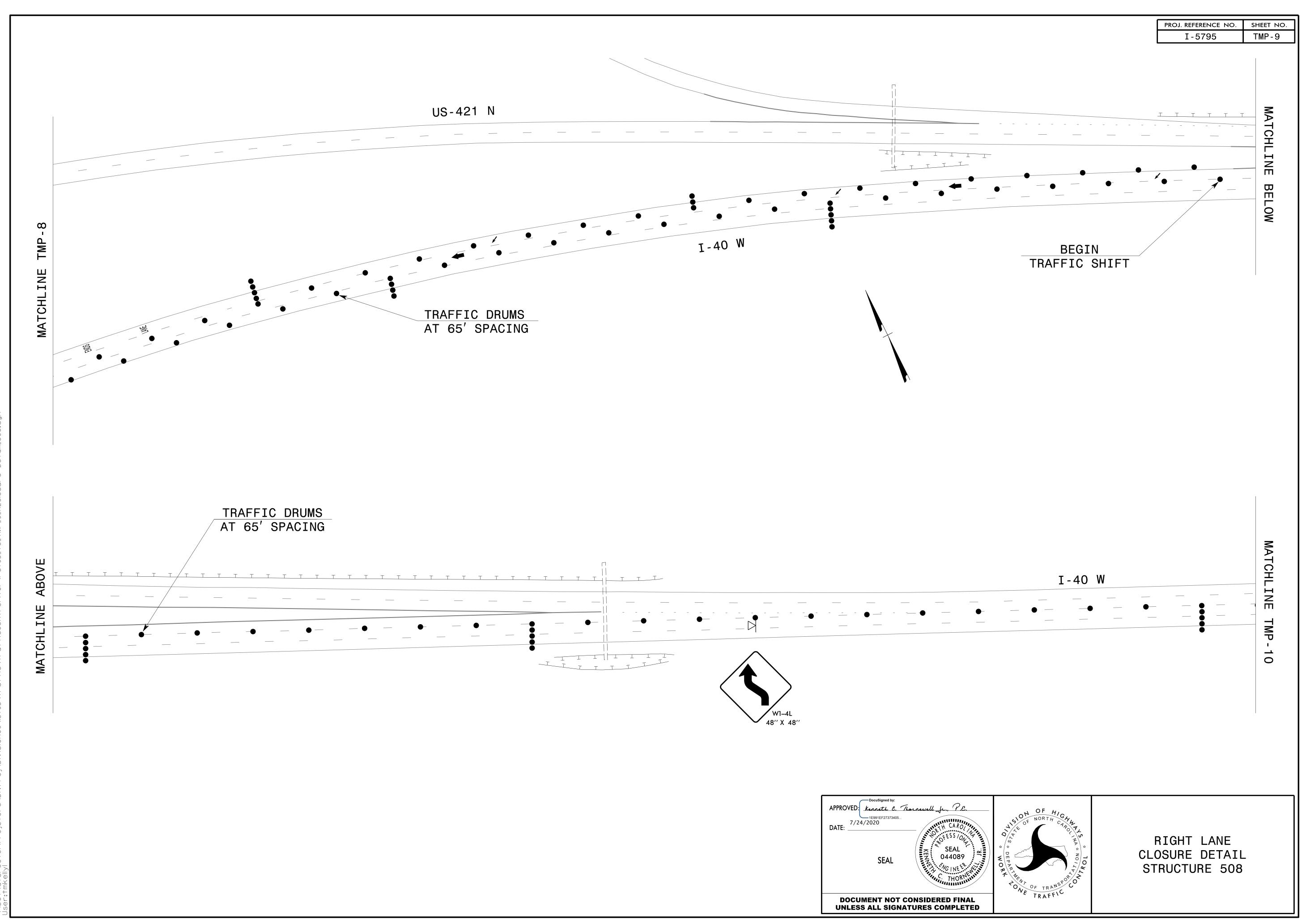
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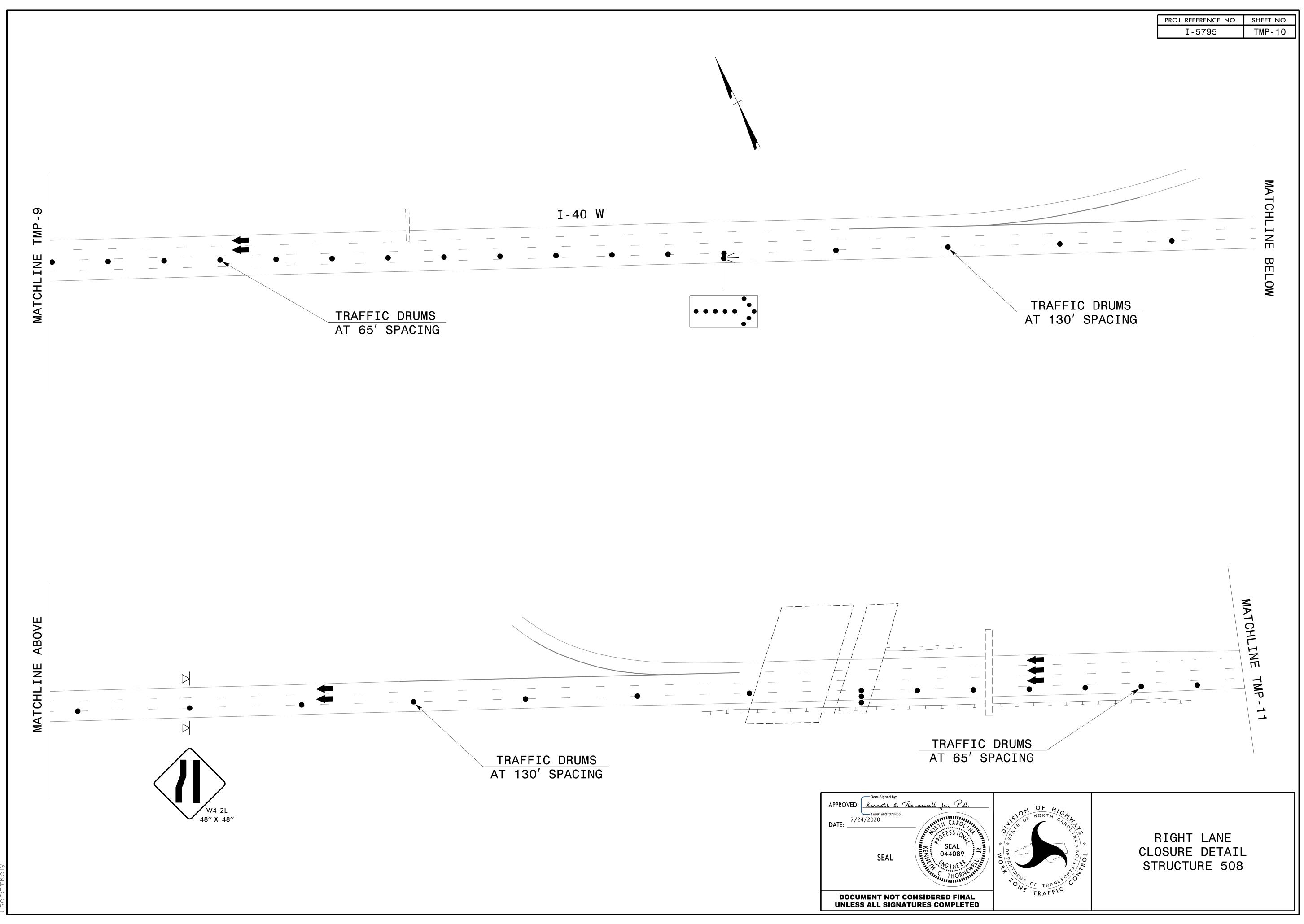
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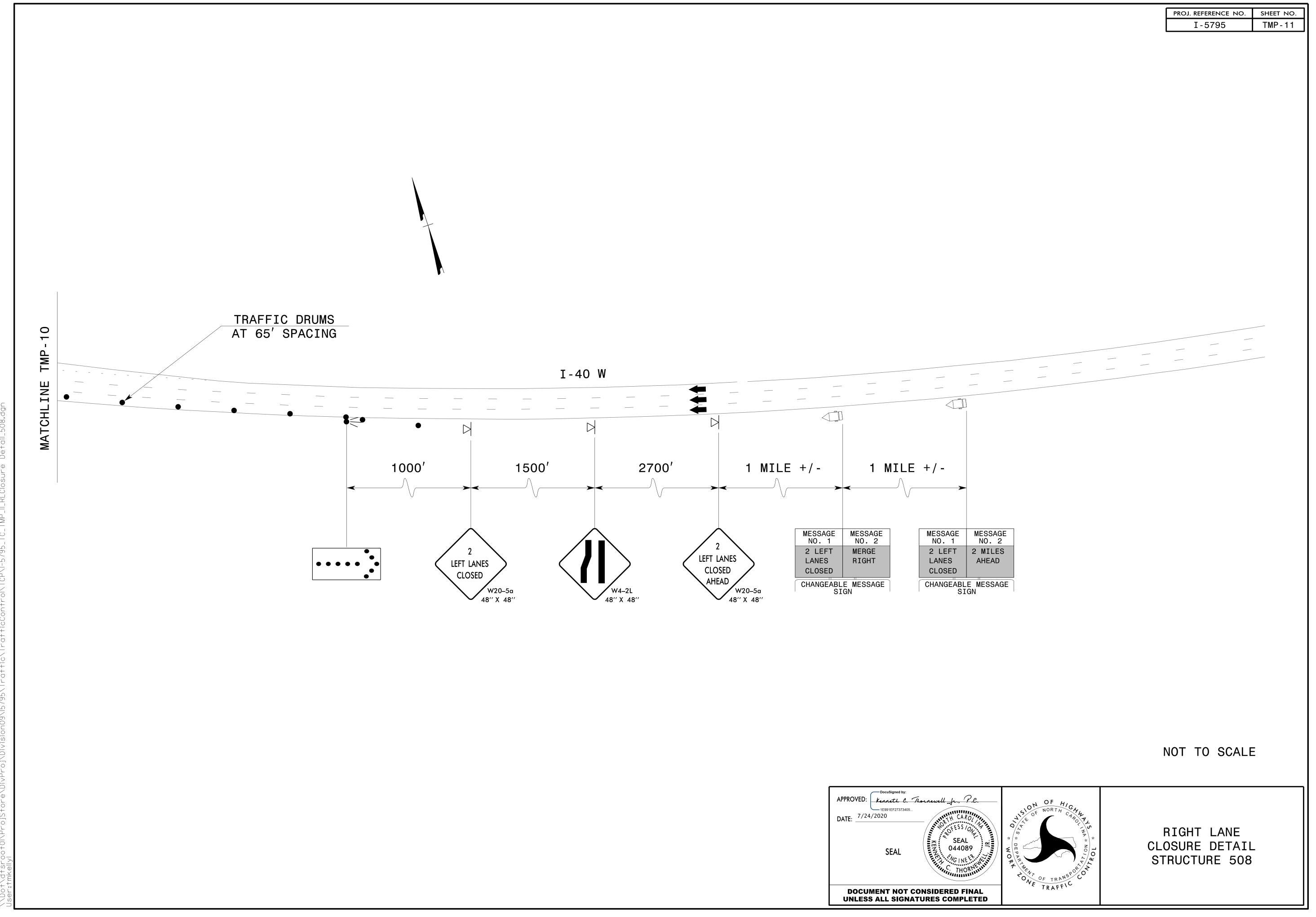
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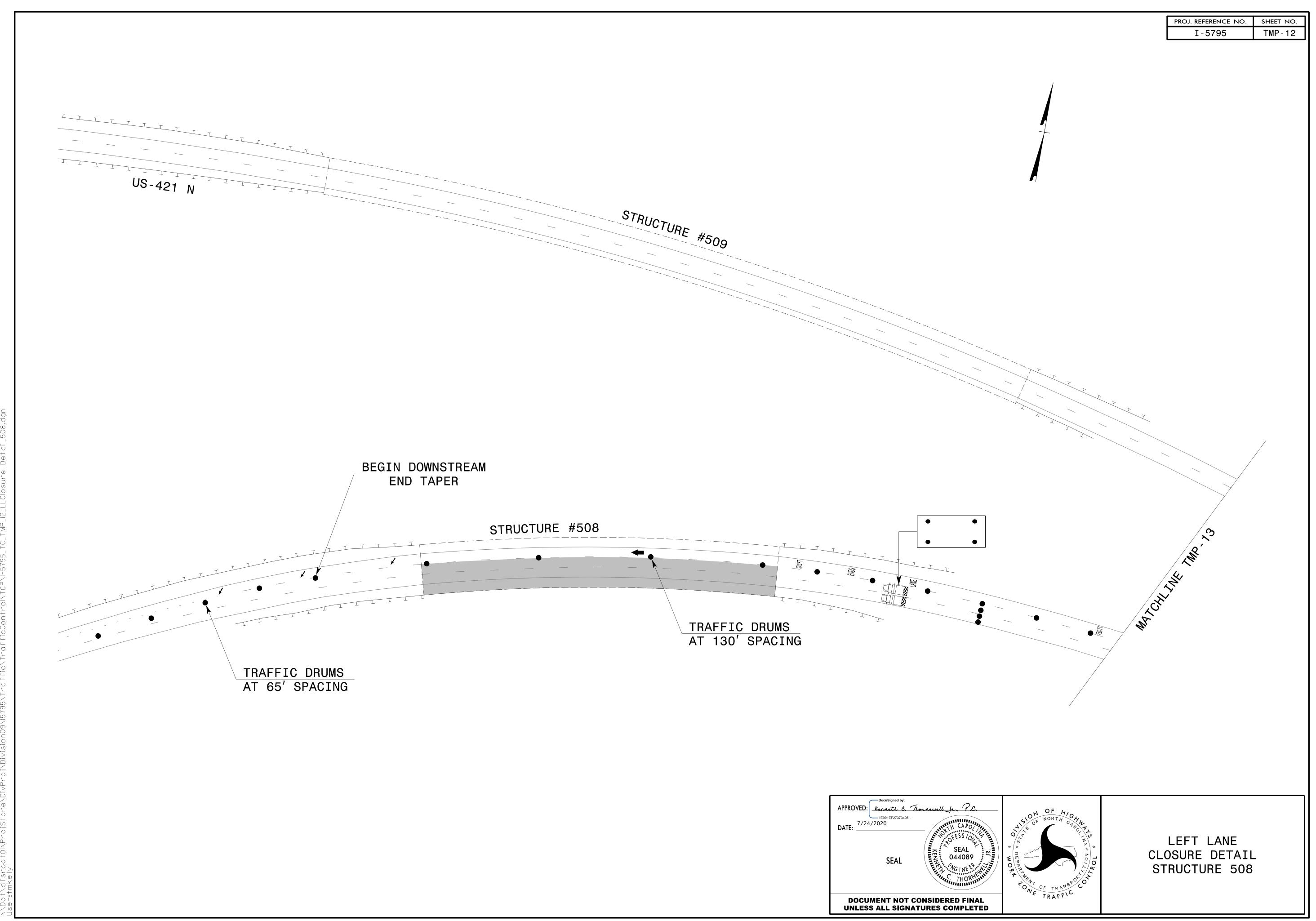
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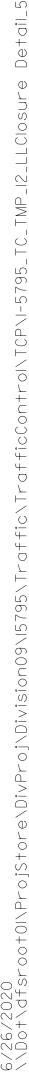




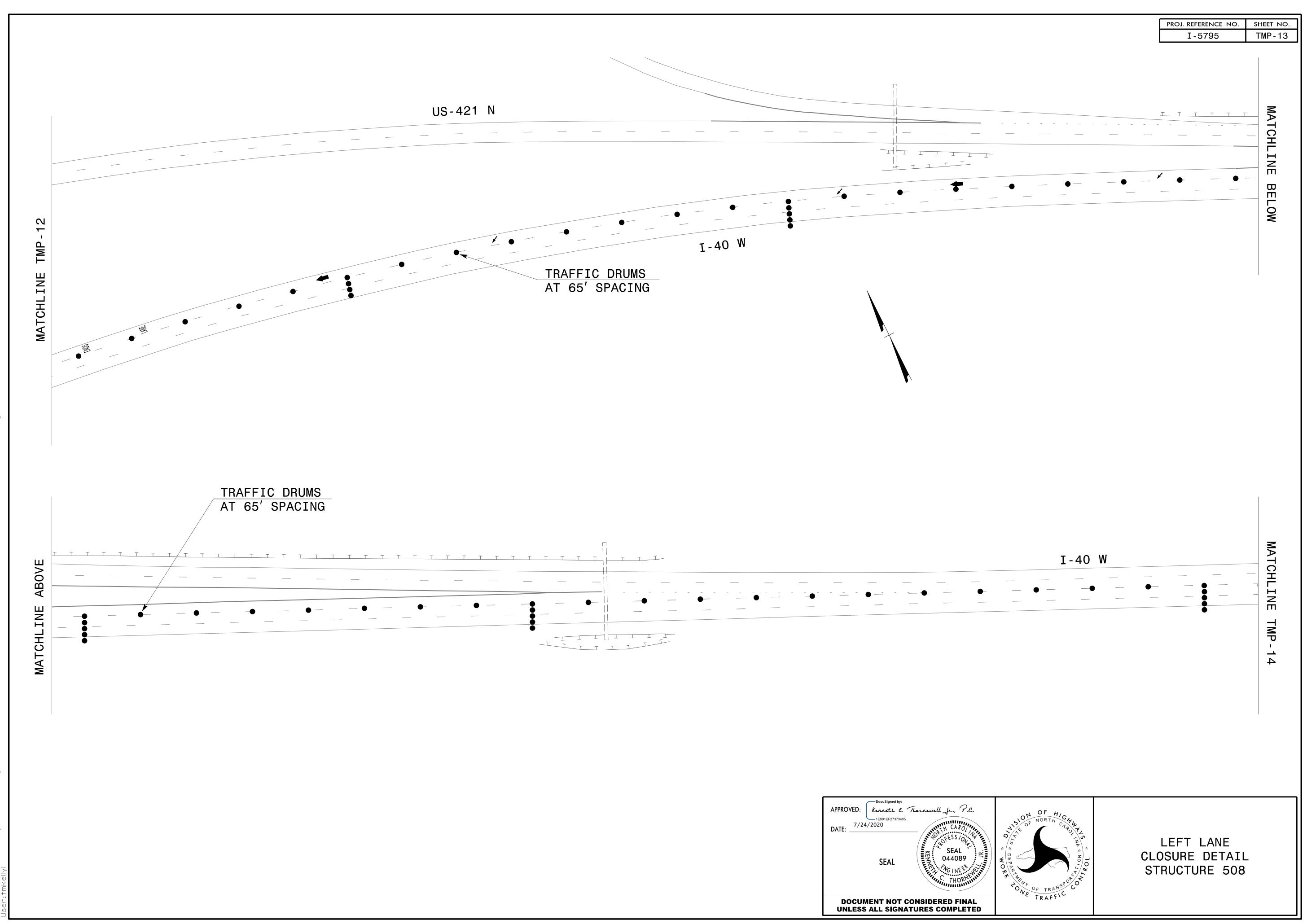
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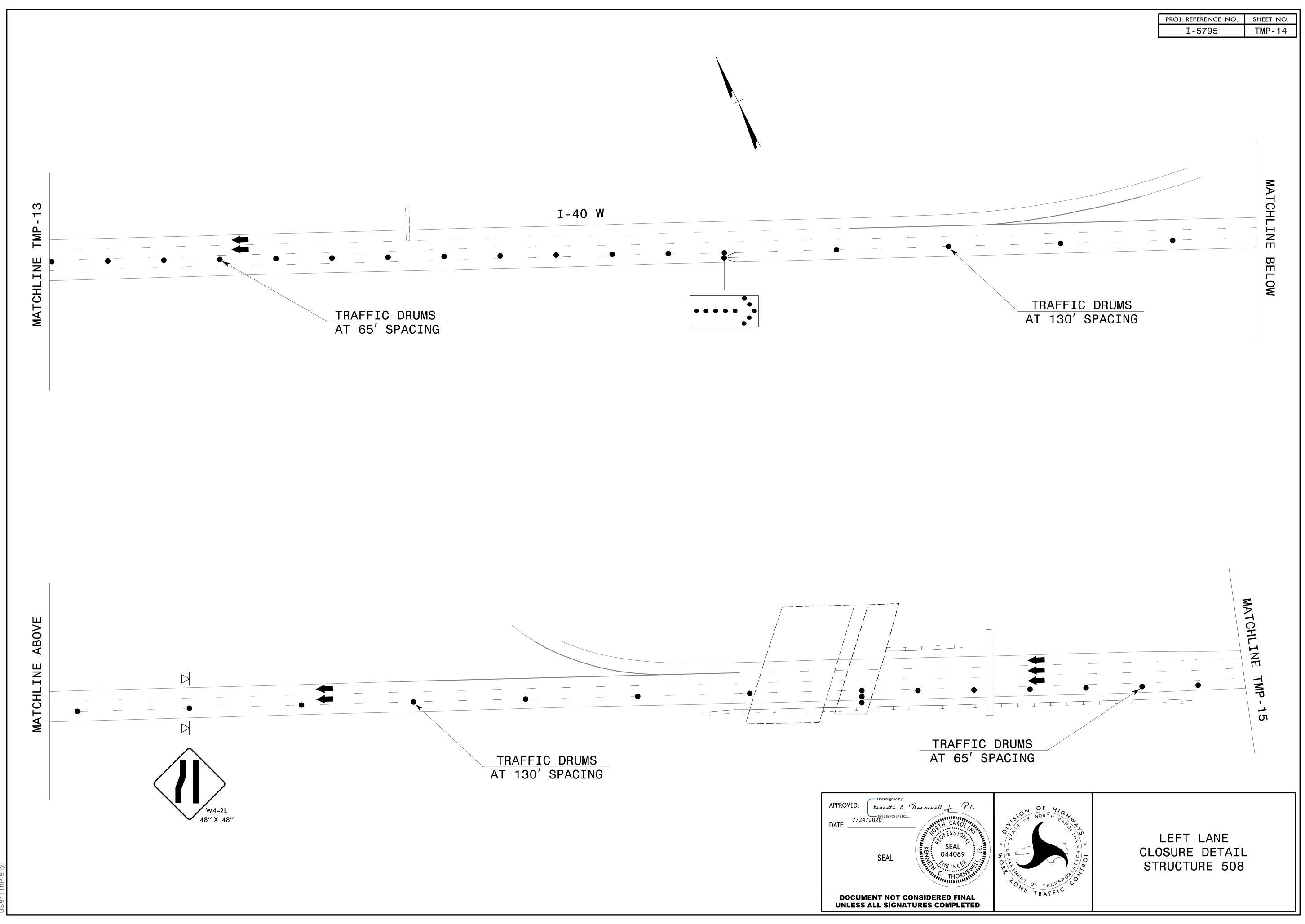


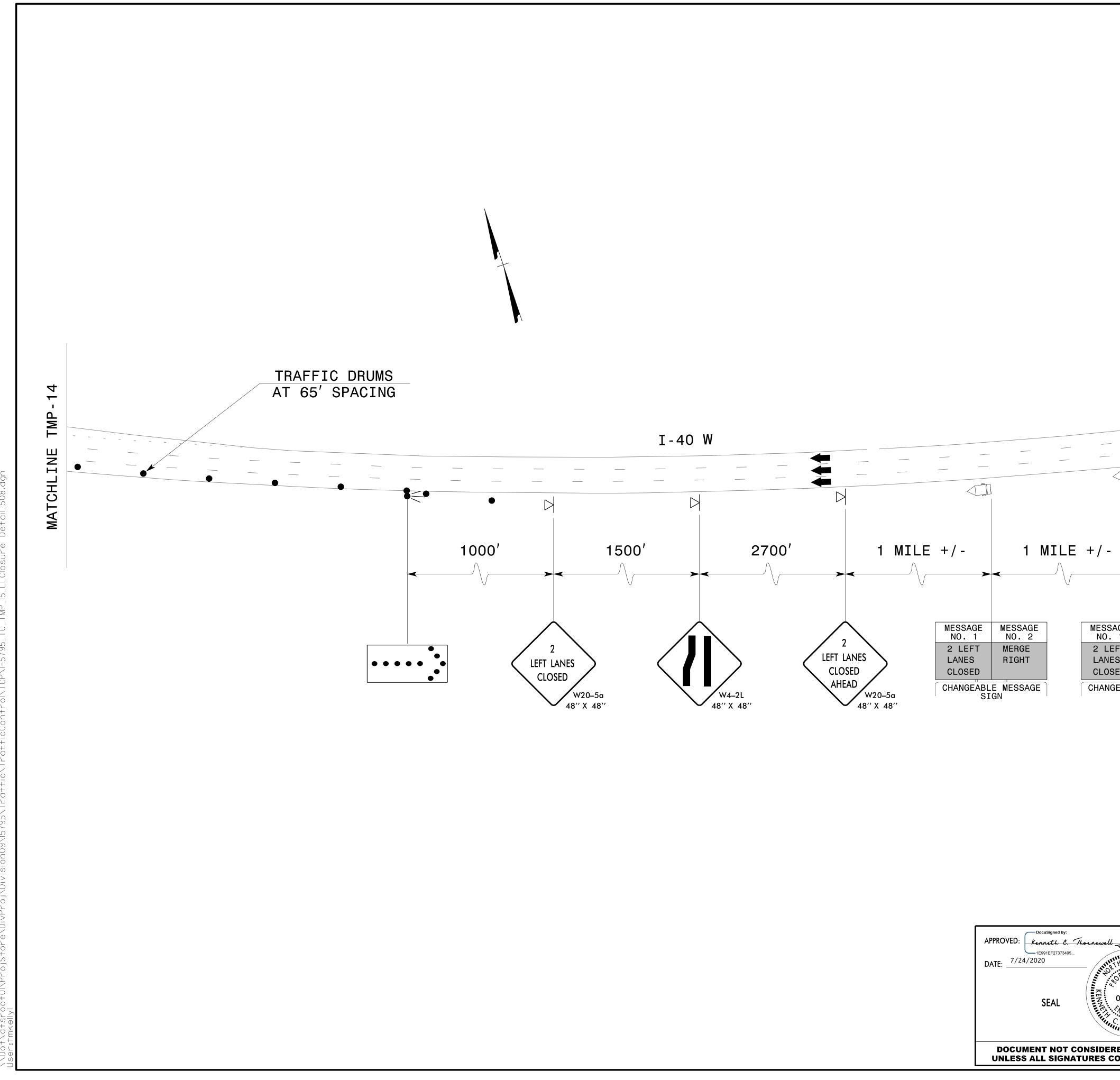


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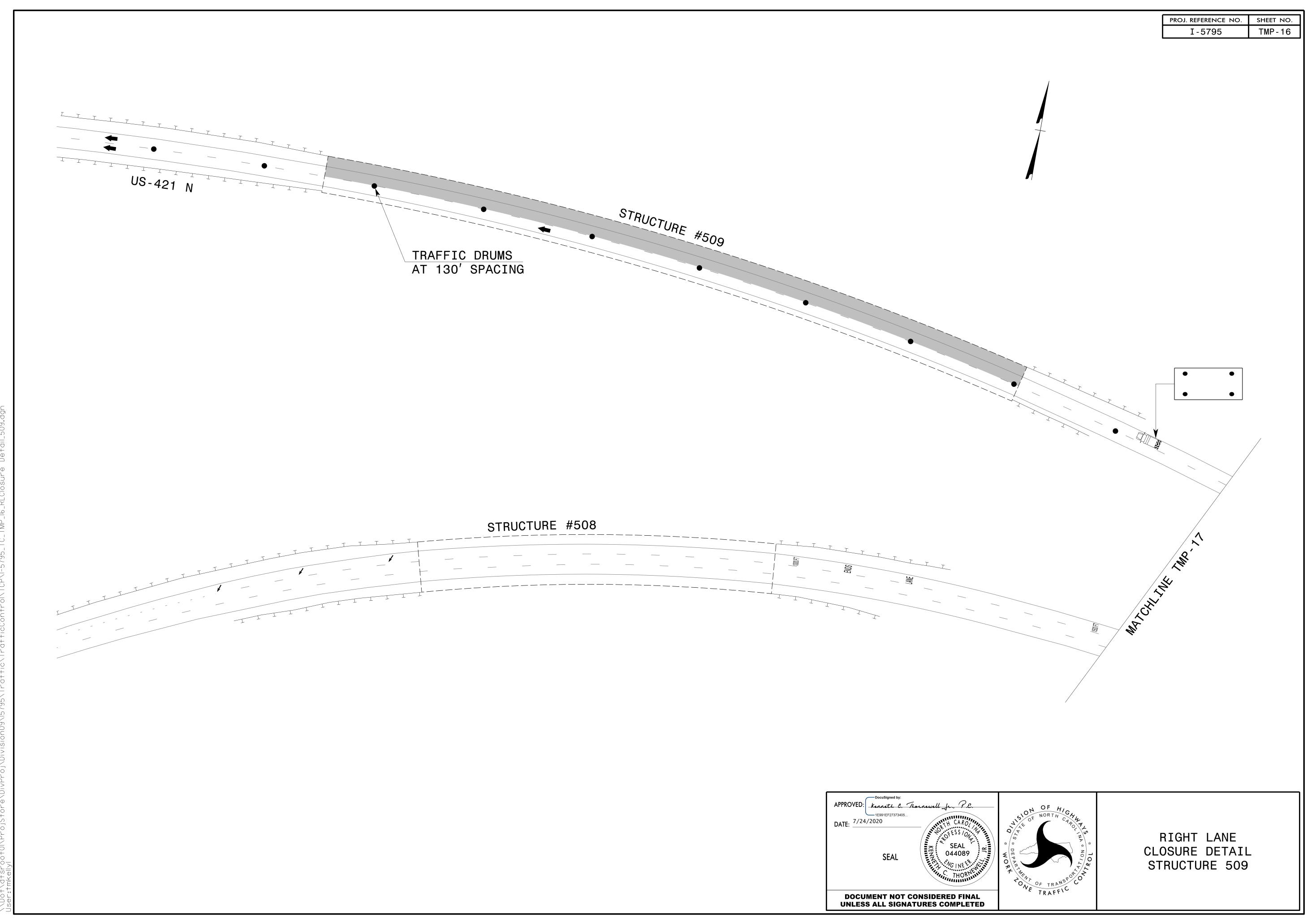




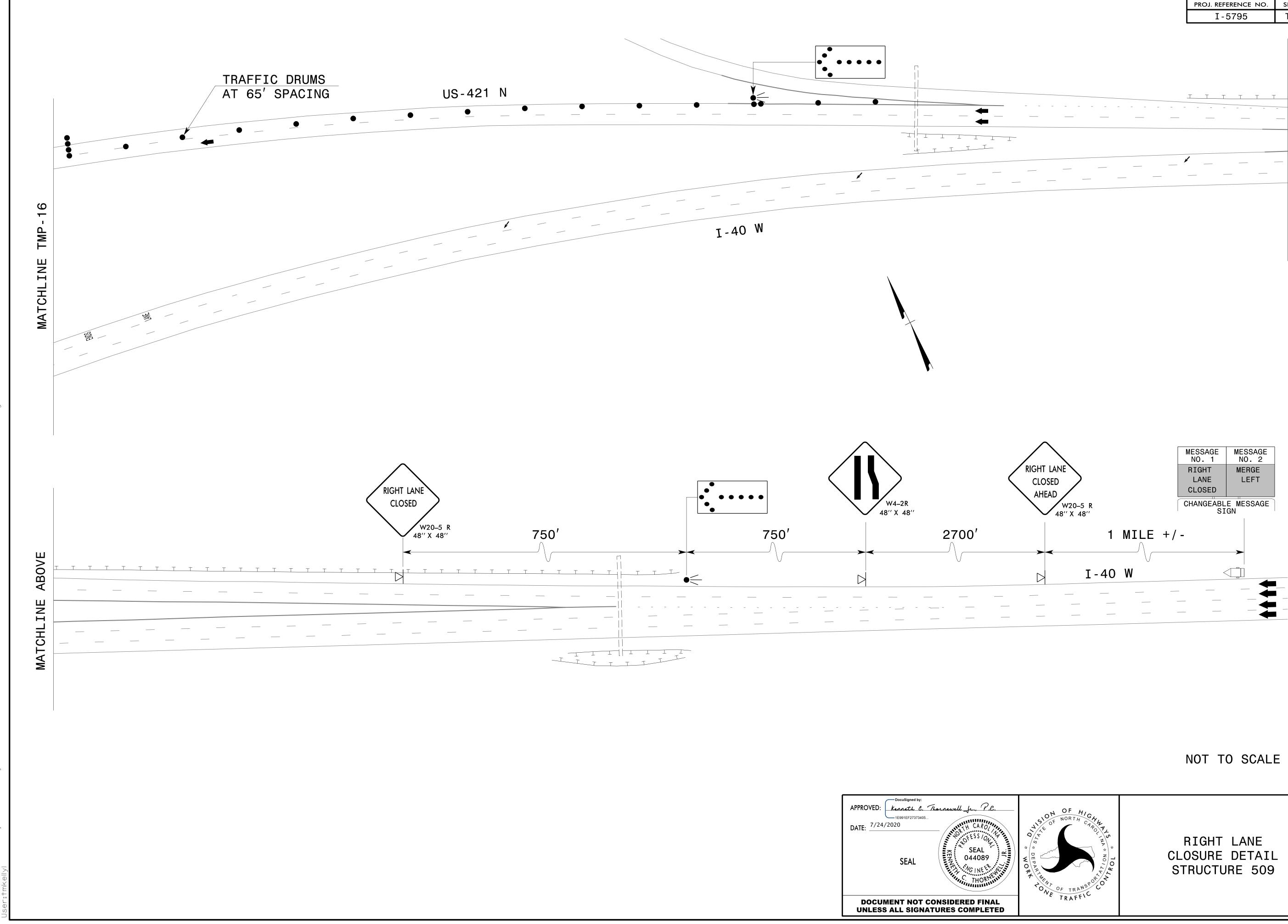
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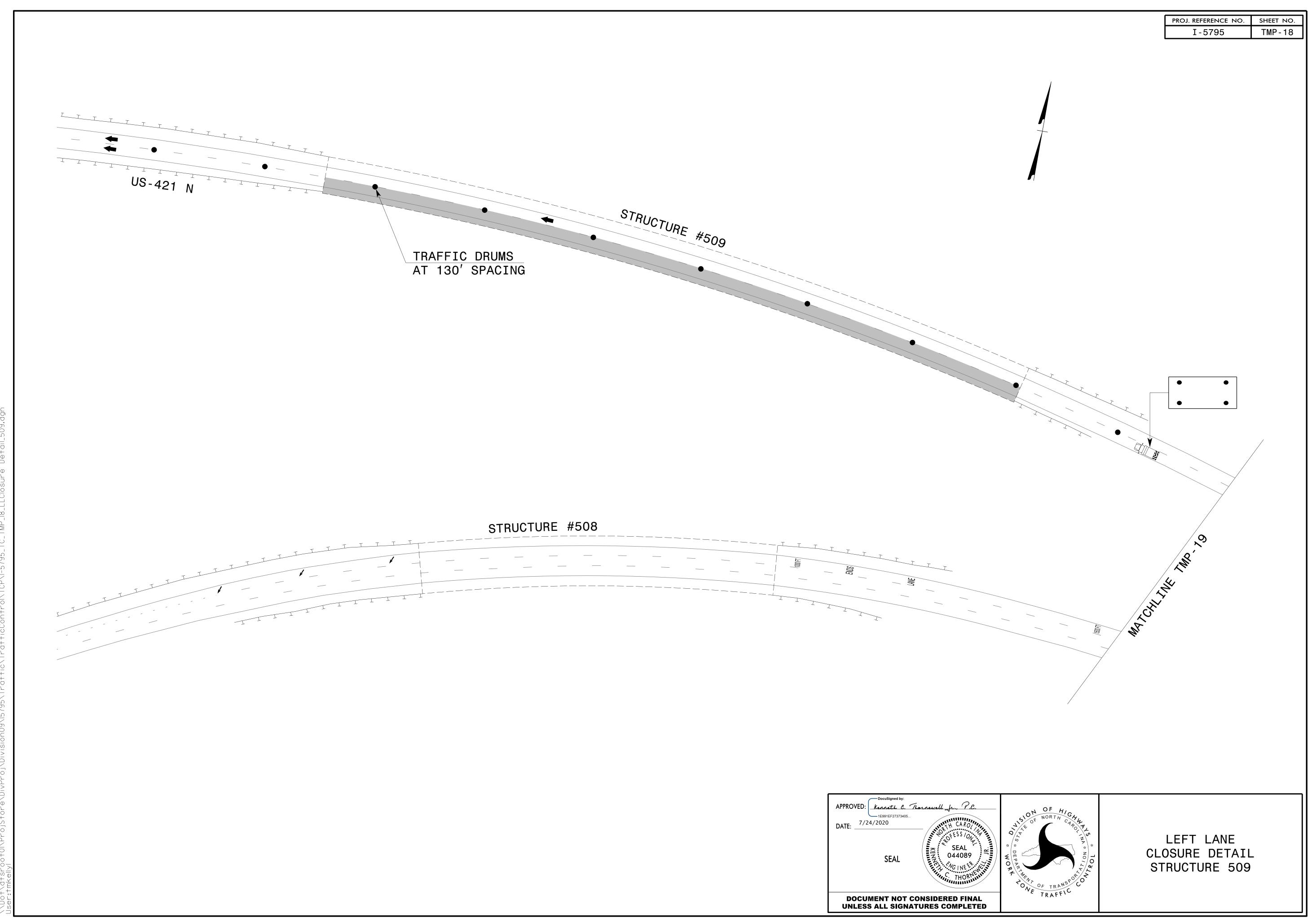
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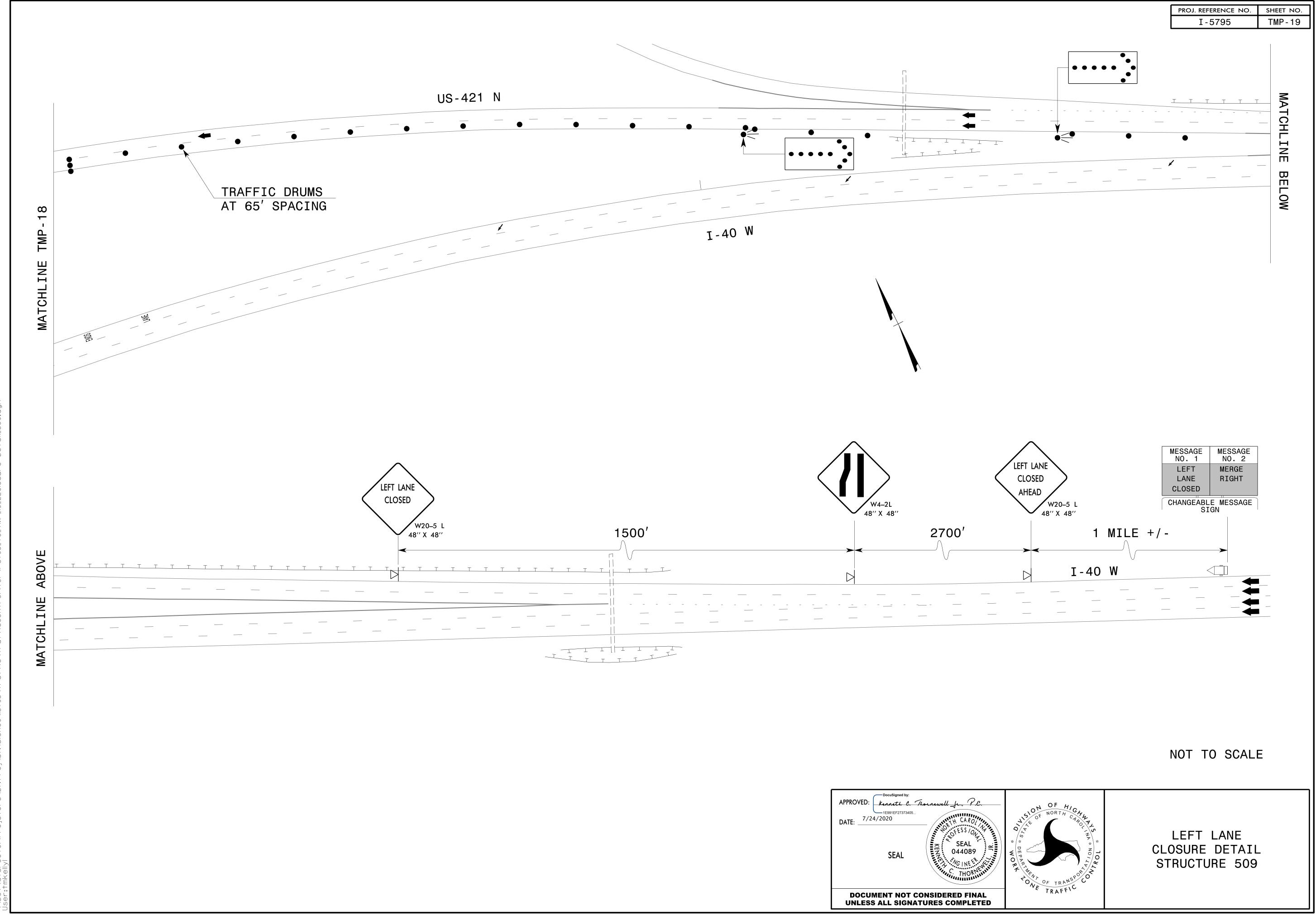






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