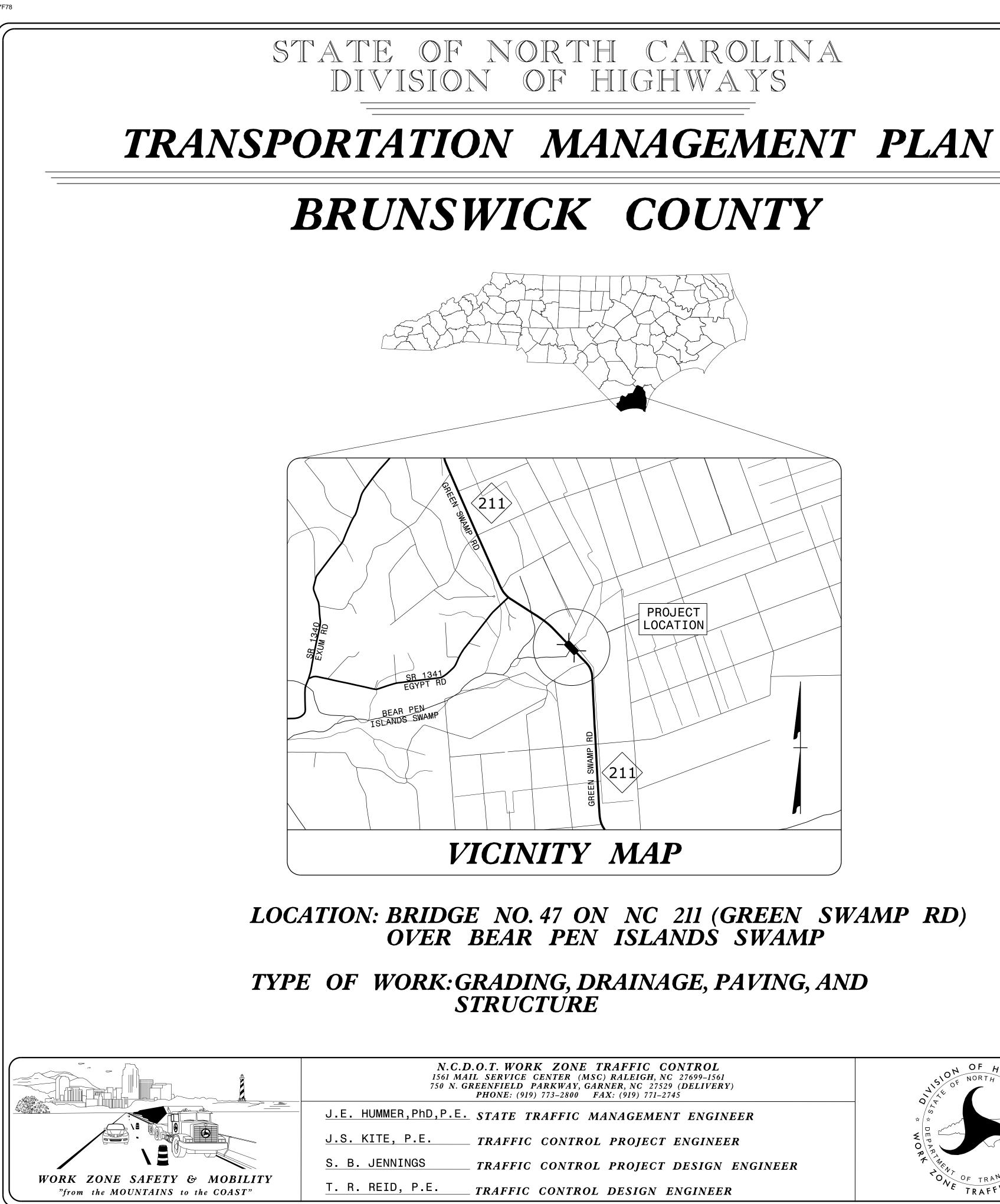
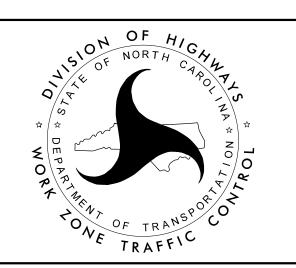
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### SHEET NO

- TMP 1 TMP-1A
- TMP-2
- TMP-2A
- TMP-3 TMP-4
- TMP-5
- TMP-6 and
- TMP-7
- TMP-8 and TMP-9



2	NDEX OF SHEETS	SHEET NO. TMP-1
	TITLE	
	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS	
	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS,	
	AND LEGEND	
	GENERAL NOTES, AND LOCAL NOTES	
	PORTABLE CONCRETE BARRIER DETAIL	
	TEMPORARY TRAFFIC CONTROL PHASING TEMPORARY TRAFFIC CONTROL PHASE I DETAIL	
	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL	$\square$
	TEMPORARY TRAAFFIC CONTROL PHASE III DETAIL	4
	TEMPORARY TRAAFFIC CONTROL PHASE IV DETAIL	
		CI
		<b>A</b>
	DOCUMENT NOT CONSIDERED FINAL	
	UNLESS ALL SIGNATURES COMPLETED	
	APPROVED: Dimothy R. Reid	
	26569A242E83411 2/22/2019	

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SEAL

### ROADWAY STANDARD DRAWINGS

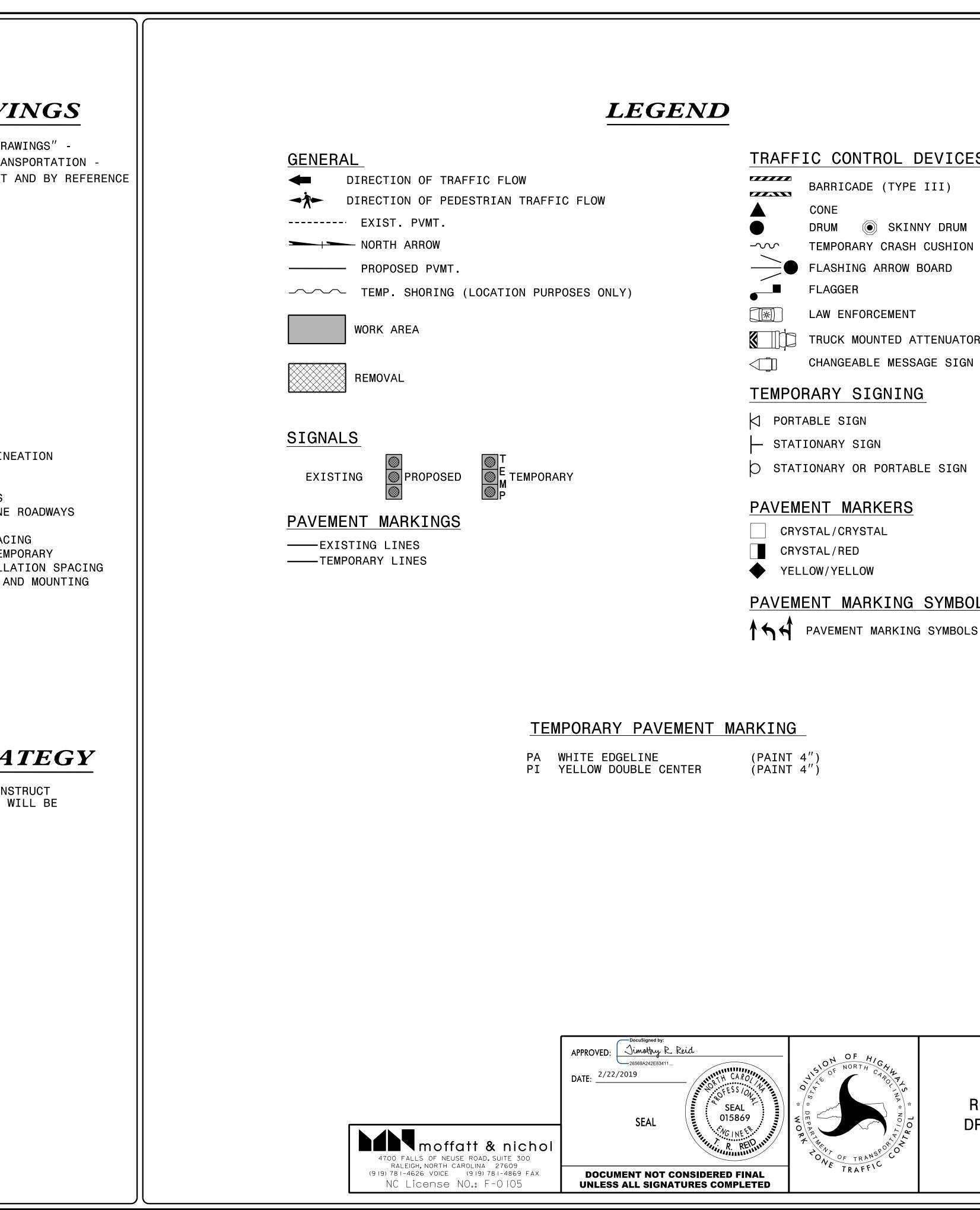
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" -CONTRACT STANDARDS AND DEVELOPMENT UNIT - N.C. DEPARTMENT OF TRANSPORTATION -RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.02	TEMPORARY LANE 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
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELIN
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPAC
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEM
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALL
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES A
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

### TRAFFIC MANAGEMENT STRATEGY

THIS PROJECT WILL UTILIZE THE EXISTING ROADWAY AND BRIDGE TO CONSTRUCT MOST OF THE NEW ROADWAY AND BRIDGE AWAY FROM TRAFFIC. FLAGGING WILL BE USED TO CONSTRUCT TIE-INS.





		PROJ. REFERENCE NO.	SHEET NO.
		B-4438	TMP-1A
TRAFF	IC CONTROL DEVICES		
	BARRICADE (TYPE III)		
	CONE DRUM ( SKINNY DRUM (	TUBULAR MARKER	
-~~	TEMPORARY CRASH CUSHION		
	FLASHING ARROW BOARD		
	FLAGGER		
	LAW ENFORCEMENT		
	TRUCK MOUNTED ATTENUATOR (TM	IA )	
	CHANGEABLE MESSAGE SIGN	,	
TEMPO	RARY SIGNING		
	ABLE SIGN		
	IONARY SIGN		
b stat:	IONARY OR PORTABLE SIGN		
PAVEM	ENT MARKERS		
CRY	STAL/CRYSTAL		
CRY	STAL/RED		
YELI	_OW/YELLOW		
PAVFMI	ENT MARKING SYMBOLS		

### ROADWAY STANDARD DRAWINGS & LEGEND

	DRAWINGS, STA TO MEET FIELD OVERLAPPING O	NDARD DETAILS, CONDITIONS OR F DEVICES. MOI	AND ROADWAY DETA RESULT IN DUPLIC DIFICATION MAY IN	FIONS IN THE DETAIL ALS ARE NOT ATTAINA ATE OR UNDESIRED CLUDE: MOVING, ES AS DIRECTED BY	
	THE CONSTRUCT		CEPT WHEN OTHERWI	ES FOR THE DURATION SE NOTED IN THE PLA	
TIME	RESTRICTIONS				
A)	DO NOT CLOSE <u>ROAD NAI</u> NC 211	ME	MOI 7:0	LOWS: TIME RESTRICTIONS NDAY THRU FRIDAY DO A.M 9:00 A.M. DO P.M 6:00 P.M.	
B)	DO NOT CLOSE EVENTS AS FO <u>ROAD NAME</u> NC 211 (-L-)	LLOWS:		HOLIDAYS AND SPECI	AL
	<u>HOLIDAY</u>				
			URRENCE THAT CRE RECTED BY THE EN	ATES UNUSUALLY HIGH GINEER.	I
	31st ANI FRIDAY,	D 6:00 P.M. JAN	IUARY 2nd. IF NE DAY OR MONDAY, TH	7:00 A.M. DECEMBE W YEAR'S DAY IS ON A EN UNTIL 6:00 P.M.	
		TER, BETWEEN TH M. MONDAY.	E HOURS OF 7:00	A.M. THURSDAY TO	
		DRIAL DAY, BETW M. TUESDAY.	VEEN THE HOURS OF	7:00 A.M. FRIDAY T	0
				S OF 7:00 A.M. THE THE DAY AFTER INDEF	
	THEN BE	TWEEN THE HOURS	,	TURDAY, SUNDAY OR M E THURSDAY BEFORE I DEPENDENCE DAY.	•
		DR DAY, BETWEEN M. TUESDAY.	I THE HOURS OF 7:	00 A.M. FRIDAY TO	
		NKSGIVING DAY, P.M. MONDAY.	BETWEEN THE HOUR	S OF 7:00 A.M. TUES	BDAY
	WEEK OF	-	AND 6:00 P.M. TH	00 A.M. THE FRIDAY E FOLLOWING TUESDAY	
C)	DO NOT STOP	• TRAFFIC AS FO	LLOWS:		
	ROAD NAME NC 211 (-L-)	MOND	TIME RESTRICTIONS AY THRU FRIDAY A.M 9:00 A.M	15 MINUT SHIFTS,	AND OPEF ES FOR TF PAVEMENT MARKING

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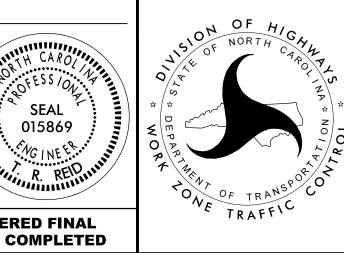
	LANE AND SH	HOULDER CLOSURE REQUIREMENTS	TRAFFIC CO	ONTROL [
BLE	D)	ΡΑ	AVEMENT N	
IE		PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.	N)	INSTAL ON IN
	E)	WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY		ROAD
OF I		STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.		NC 2 <sup>-</sup>
	F)	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.	0)	PLACE SECON APPLI
		WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER	P)	TIE PF LINES
		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.	Q)	REMOVE MARKE
L			TEMPORARY	SHORING
	G)	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	SHO	DRING LO
		BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.	R)	FOR TE SHORI
	H)	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.	S)	BEFORE EXIS DETER
	PAVE	MENT EDGE DROP OFF REQUIREMENTS	Т)	
	I)	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:	, ,	STATI PARAN
		BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.		
ΑΥ		BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.	U)	
NDENCE		BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.	V)	-L- AT THE
NDAY, DEPENDENCE	(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) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.		TEMP -L- TEMP
	TRAFFIC PAT	TERN ALTERATIONS		
AY	K)	NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.		
EFORE THE AFTER THE	SIGN	IING		

GENERAL NOTES / LOCAL NOTES

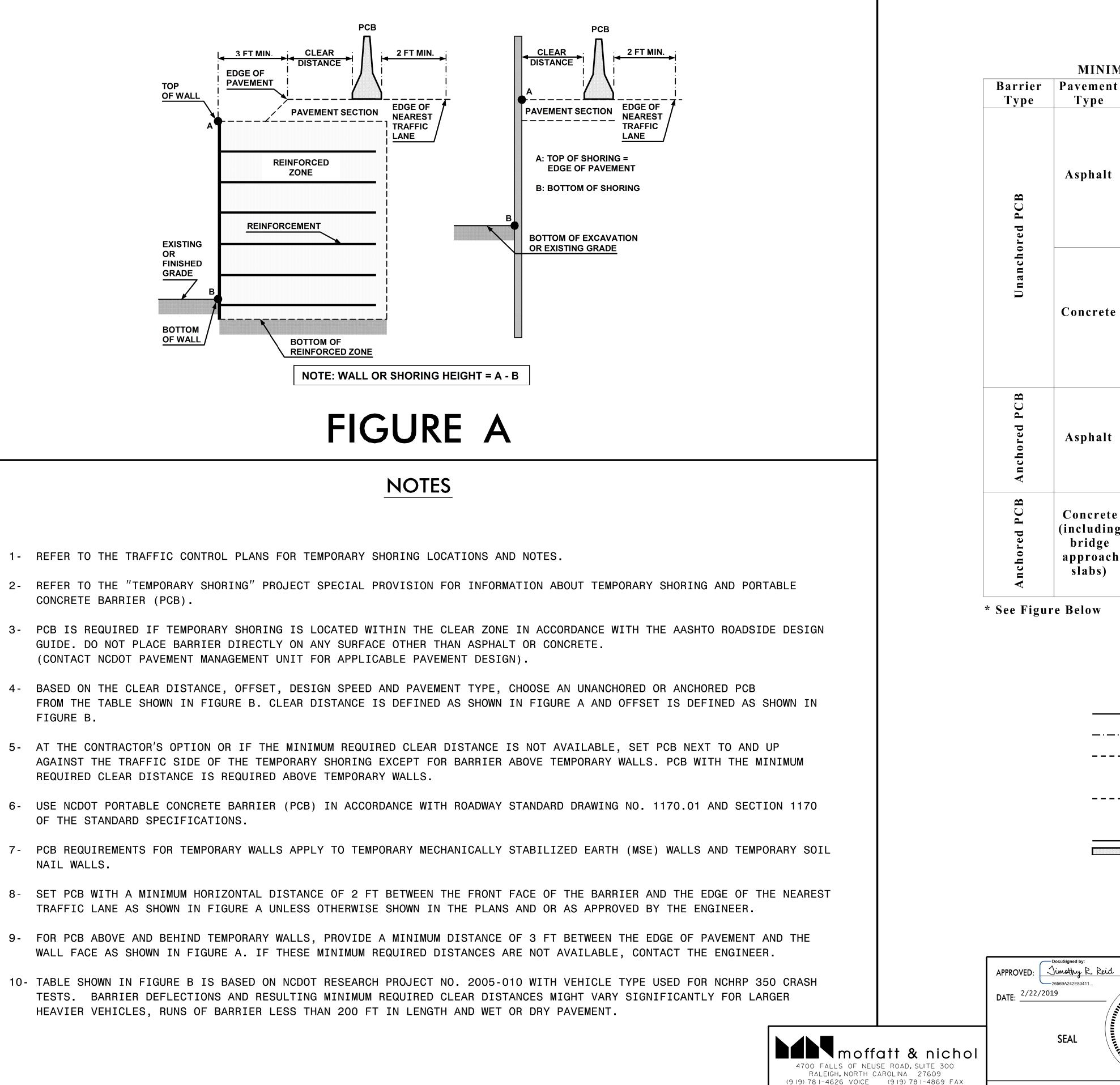
- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- ND OPERATION FOR TRAFFIC VEMENT TIE-INS, MARKING TIE-INS

	APPROVED: Jinothy R. Reid 26569A242EB3411 DATE: 2/22/2019
4700 FALLS OF NEUSE ROAD, SUITE 300	SEAL SEAL
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	PROJ. REFERENCE NO.	SHEET NO.
	B-4438	TMP-2
<u>DEVICES</u>		
MARKINGS AND MARKERS		
ALL TEMPORARY PAVEMENT MARKINGS AND TEMPORAD INTERIM LAYERS OF PAVEMENT AS FOLLOWS:	RY PAVEMENT MARKERS	
D NAME MARKING	MARKER	
211 (-L-) PAINT	TEMPORARY RAISED	
E ONE APPLICATION OF PAINT FOR TEMPORARY TRACOND APPLICATION OF PAINT SIX (6) MONTHS AFTER INCLUDED BY AND AND EVERY SIX MONTHS AS DIRECTED BY	ER THE INITIAL	A
PROPOSED PAVEMENT MARKING LINES TO EXISTING HES.	PAVEMENT MARKING	
VE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT KERS BY THE END OF EACH DAY'S OPERATION.	MARKINGS AND	
NG		
LOCATION NO. 1		
TEMPORARY SHORING AND POSITIVE PROTECTION FOR PRING, SEE PLANS AND TEMPORARY SHORING PROVIS		
ORE BEGINNING TEMPORARY SHORING DESIGN OR CON STING GROUND ELEVATIONS IN THE VICINITY OF S FERMINE ACTUAL SHORING HEIGHTS.		
GN TEMPORARY SHORING FROM STATION -L- 25+60 TION -L- 31+80 ±, 12.0 FT ± LEFT, FOR THE FO AMETERS AND GROUND WATER ELEVATION:		0
UNIT WEIGHT $(y) = 120 \text{ LB/CF}$		
FRICTION ANGLE (Φ) = 30 DEGREES COHESION (c) = 0 LB/SF		
GROUNDWATER ELEVATION = 58 FT $\pm$		
OT USE A TEMPORARY WALL FOR TEMPORARY SHORIN - 25+60 ±, 20.0 FT ± RIGHT, TO STATION -L- 3		
THE CONTRACTOR'S OPTION, USE STANDARD TEMPORA MPORARY SHORING FROM STATION -L- 25+60 ±, 20 - 31+80 ±, 12.0 FT ± LEFT. SEE STANDARD DETA MPORARY SHORING.	.0 FT ±RIGHT, TO STATI	



GENERAL NOTES AND LOCAL NOTES



- 1- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.
- CONCRETE BARRIER (PCB).
- (CONTACT NCDOT PAVEMENT MANAGEMENT UNIT FOR APPLICABLE PAVEMENT DESIGN).
- FIGURE B.
- REQUIRED CLEAR DISTANCE IS REQUIRED ABOVE TEMPORARY WALLS.
- OF THE STANDARD SPECIFICATIONS.
- NAIL WALLS.

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SEAL

MINIMU

Туре

Asphalt

Concrete

Asphalt

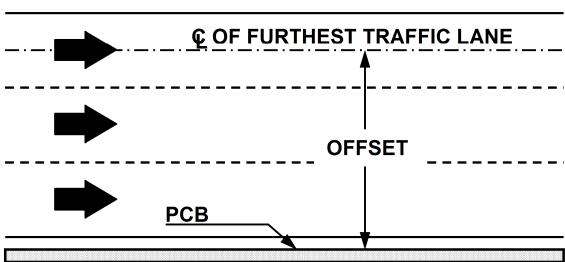
Concrete (including

bridge

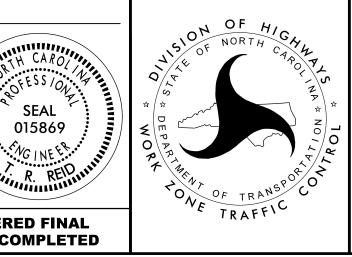
approach

slabs)

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						В	- 4438	TMP-2A
					٦			-
M REQUI	<b>RED CI</b>	LEAR DI	STANCI	E, inches	5			
Offset *		De	sign Spe	ed, mph				
ft	<30	31-40	41-50	51-60		1-70	71-80	
<8	24	26	29	32		36	40	
8-14	26	28	31	35		38	42	
14-20	27	29	34	36		39	43	
20-26	28	31	35	38		40	44	
26-32	29	32	36	39		42	45	
32-38	30	34	38	41		43	46	
38-44	31	34	41	43		45	48	
44-50	31	35	41	43		46	49	
50-56	32	36	42	44		47	50	
>56	32	36	42	45		47	51	
<8	17	18	21	22		25	26	
8-14	19	20	23	25		26	29	
14-20	22	22	24	26		28	31	
20-26	23	24	26	27		30	34	
26-32	24	25	27	28		32	35	
32-38	24	26	27	30		33	36	
38-44	25	26	28	30		34	37	
44-50	26	26	28	32		35	37	
50-56	26	26	28	32		35	38	
>56	26	27	29	32		36	38	
All Offsets		24 f	or All Do	esign Sp	eed	ls		
All Offsets		12 f	or All Do	esign Sp	eec	ls		



## FIGURE B



PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS

### PHASE I

NOTE: TRAFFIC AND EXISTING LITTLE LOOP ROAD ACCESS SHALL BE MAINTAINED ON EXISTING NC 211 FOR THIS PHASE.

### STEP 1

PRIOR TO BEGINNING CONSTRUCTION, INSTALL WORK ZONE ADVANCE WARNING SIGNS USING ROADWAY STANDARD DRAWING 1101.01 SHEET 3 OF 3 ALONG EXISTING NC 211 AND LITTLE LOOP ROAD.

### STEP 2

USING FLAGGING OPERARTION PER ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 14, INSTALL TEMPORARY PRECAST CONCRETE BARRIER AND TEMPORARY CRASH CUSHION ALONG THE EXISTING ROADWAY (SEE TMP-4)

- STA. 25+52 +/- -L- TO STA. 33+30 +/- -L-

### STEP 3

INSTALL TEMPORARY SHORING AS SHOWN ON TMP-4

- STA. 25+60 +/- -L- TO STA. 31+80 +/- -L-

### STEP 4

EXCAVATE UNDERCUT MATERIAL AND INSTALL ROAD EMBANKMENT UP TO SUBGRADE LINE

- STA. 23+75 +/- -L- TO STA. 24+90 +/- -L-- STA. 25+60 +/- -L- TP STA. 31+80 +/- -L-

### PHASE II

NOTE: TRAFFIC AND EXISTING LITTLE LOOP ROAD ACCESS SHALL BE MAINTAINED ON EXISTING NC 211 FOR THIS PHASE.

### <u>STEP 1</u>

SHIFT TEMPORARY PRECAST CONCRETE BARRIER PLACED UNDER PHASE I, INSTALL A NEW SECTION OF TEMPORARY PRECAST CONCRETE BARRIER AND ADD A TEMPORARY CRASH CUSHION

-SHIFT ENDING OF PCB AND CRASH CUSHION FROM STA. 33+30 +/- TO STA. 31+00 (SEE TMP-4 & TMP-5)

-ADD NEW SECTION OF PCB AND CRASH CUSHION STA. 22+50 +/- TO STA. 25+00 (TMP-5)

### <u>STEP 2</u>

AWAY FROM TRAFFIC AND USING ROADWAY STANDARD DRAWINGS 1101.02(SHEET 1 OF 14)AND 1101.04 AS NEEDED, CONSTRUCT THE PROPOSED BRIDGE AND ROADWAY. (SEE TMP-5)

- STA. 23+00 +/- -L- TO STA. 28+50 +/- -L-

### STEP 3

INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS IN THE FINAL TRAFFIC PATTERN ON THE REALIGNED NC 211 AS FOLLOWS, (SEE TMP-5)

- STA. 23+00 +/- -L- TO STA. 28+50 +/- -L-

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### PHASING

### PHASE III

NOTE: TRAFFIC AND EXISTING LITTLE LOOP ROAD ACCESS SHALL BE MAINTAINED ON EXISTING NC 211 FOR THIS PHASE.

STEP 1

SHIFT TEMPORARY PRECAST CONCRETE BARRIER PLACED UNDER PHASE II AS FOLLOWS:

-SHIFT BEGINNING OF PCB AND CRASH CUSHION FROM STA. 22+50 +/- TO STA. 23+00 (SEE TMP-5 & TMP-6)

-SHIFT ENDING OF PCB AND CRASH CUSHION FROM STA. 31+00 TO STA. 28+20 +/- (SEE TMP-5 & TMP-7)

STEP 2

INSTALL TRAFFIC CONTROL DEVICES AND AWAY FROM TRAFFIC, USING ROADWAY STANDARD DRAWINGS 1101.02 (SHEET 1 OF 14) AND 1104.04 AS NEEDED, CONSTRUCT THE PROPOSED ROADWAY UP TO EXISTING EDGE OF PAVEMENT ELEVATIONS AND CONSTRUCT -Y1- (SEE TMP-6 AND TMP-7). ONLY THE BASE AND INTERMEDIATE ROADWAY COURSES ARE TO BE CONSTRUCTED.

- STA. 14+70 +/- -L- TO STA. 23+00 +/- -L-- STA. 28+50 +/- -L- TO STA. 36+00 +/- -L-

### <u>STEP 3</u>

USING FLAGGING OPERATION PER ROADWAY STANDARD DRAWING 1102.02 SHEET 1 OF 14, CONSTRUCT TEMPORARY WEDGING BETWEEN NEWLY CONSTRUCTED PAVEMENT AND EXISTING PAVEMENT.

- STA. 14+70 +/- -L- TO STA. 23+00 +/- -L-- STA. 28+50 +/- -L- TO STA. 36+00 +/- -L-

### STEP 4

INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS IN THE FINAL TRAFFIC PATTERN ON THE REALIGNED NC 211 AS FOLLOWS, (SEE TMP-5 AND TMP-6)

- STA. 14+70 TO STA 36+00 -L-

APPROVED: Jimothy R. Reid 26569A242E83411... DATE: 2/22/2019 SEAL 4700 FALLS OF NEUSE ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 (9 19) 78 1-4626 VOICE (9 19) 78 1-4869 FAX NC License NO.: F-0105 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BE NOTE: CONSTRU <u>STEP 1</u>

> INSTALL NEWLY CC

- STA. 1

<u>STEP 2</u>

USING FL 1101.02 COURSE A

- STA. 1

STEP 3

REMOVE T OLD ROAD

- STA. 1

<u>STEP 4</u>

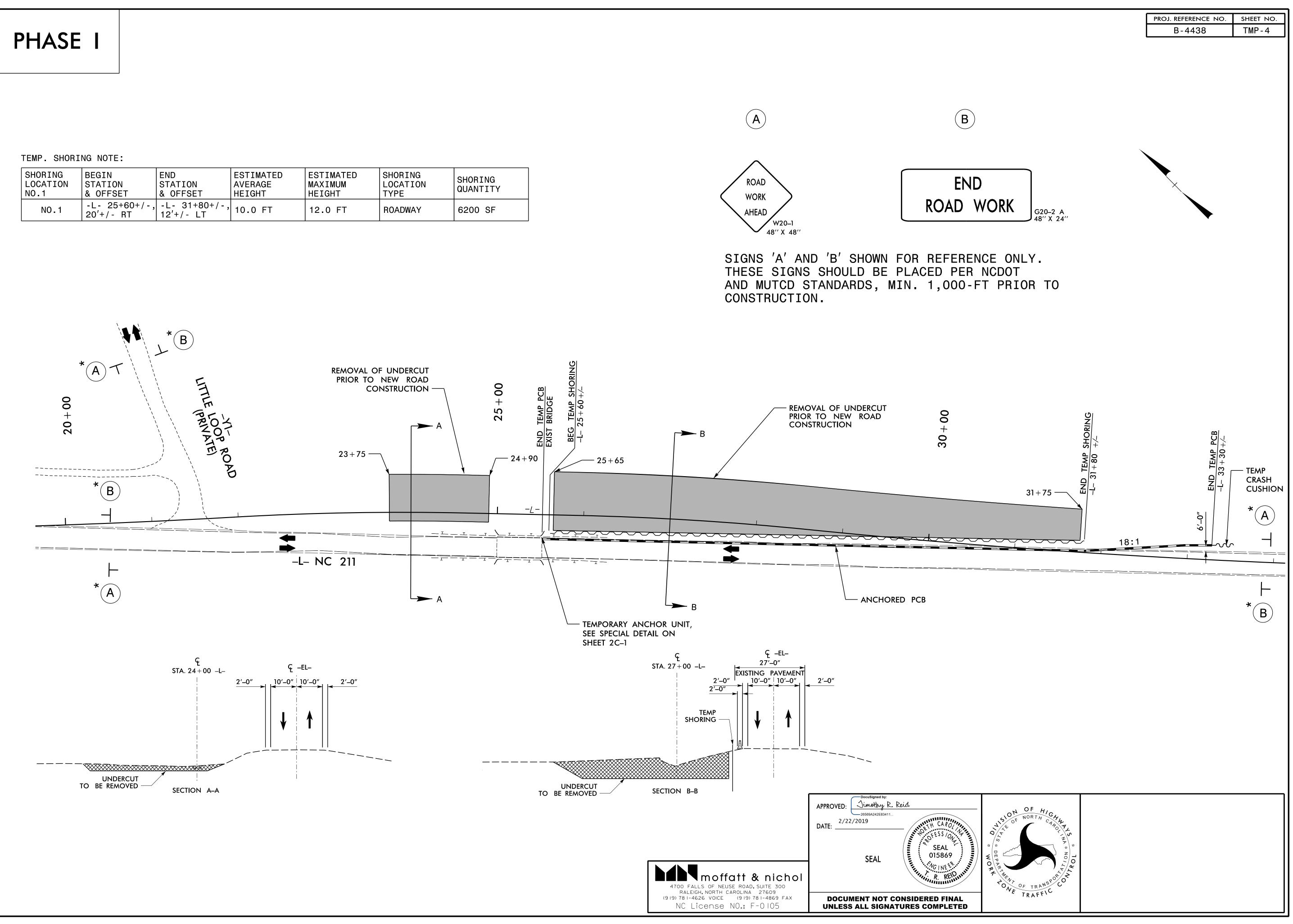
REMOVE A

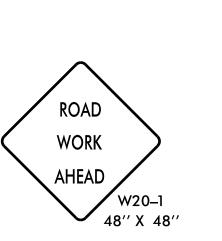
-STA 14+

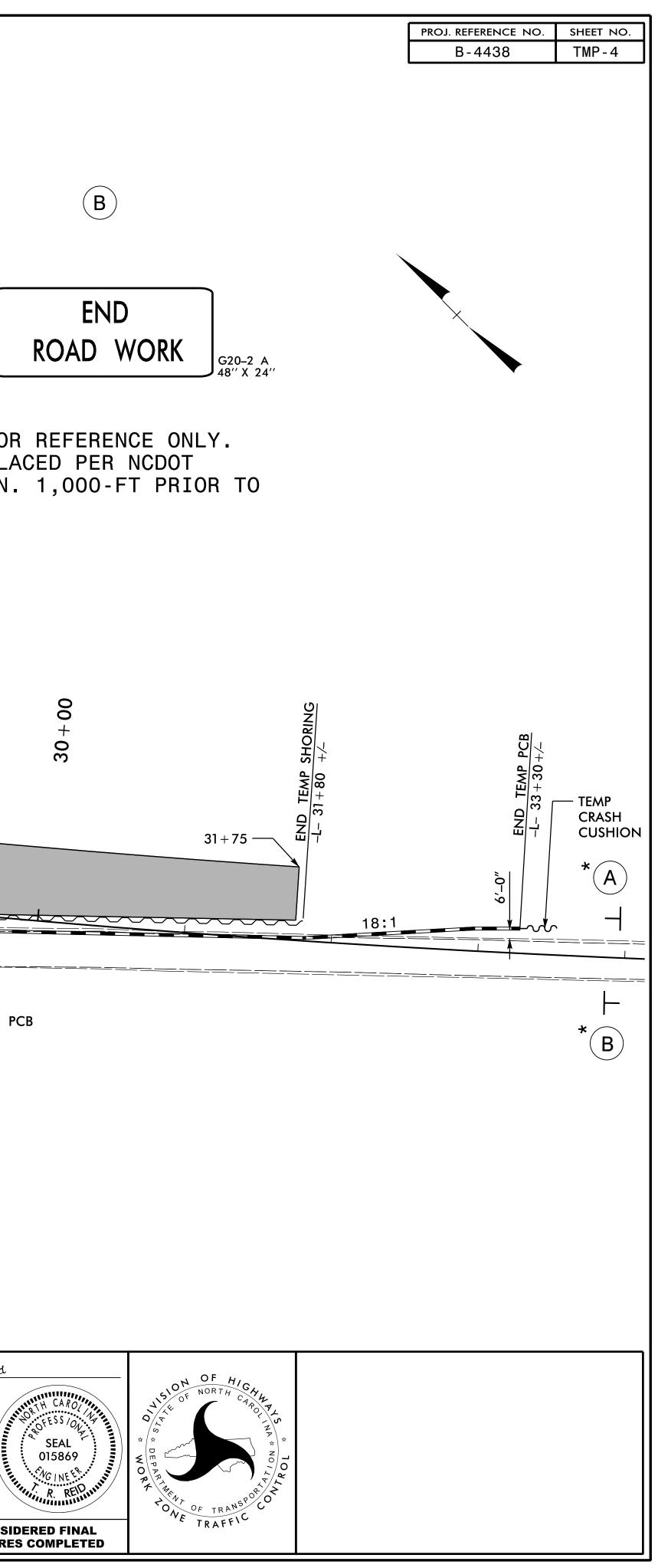
	PROJ. REFERENCE NO.	SHEET NO.
	B-4438	TMP-3
	L	
PHASE IV		
TRAFFIC SHALL BE SHIFTED AND MAINTAINED RUCTED NC 211 FOR THIS PHASE.	ON THE NEWLY	
_ TRAFFIC CONTROL DEVICES AND SHIFT TRAFFI CONSTRUCTED NC 211 AS SHOWN ON SHEETS TMP-		
14+70 +/L- TO STA. 36+00 +/L-		
FLAGGING OPERATION PER ROADWAY STANDARD DR 2 SHEET 1 OF 14, CONSTRUCT FINAL LAYER OF AND FINAL PAVEMENT MARKINGS.		
14+70 +/L- TO STA. 36+00 +/L-		
THE EXISTING BRIDGE, ROADWAY AND GRADE TH ADBED TO DRAIN AS SHOWN ON SHEETS TMP-8 AN		
14+70 +/L- TO STA. 36+00 +/L-		
ANY REMAINING TRAFFIC CONTROL SIGNS AND D	EVICES.	
4+70 +/L- TO STA. 36+00 +/L-		



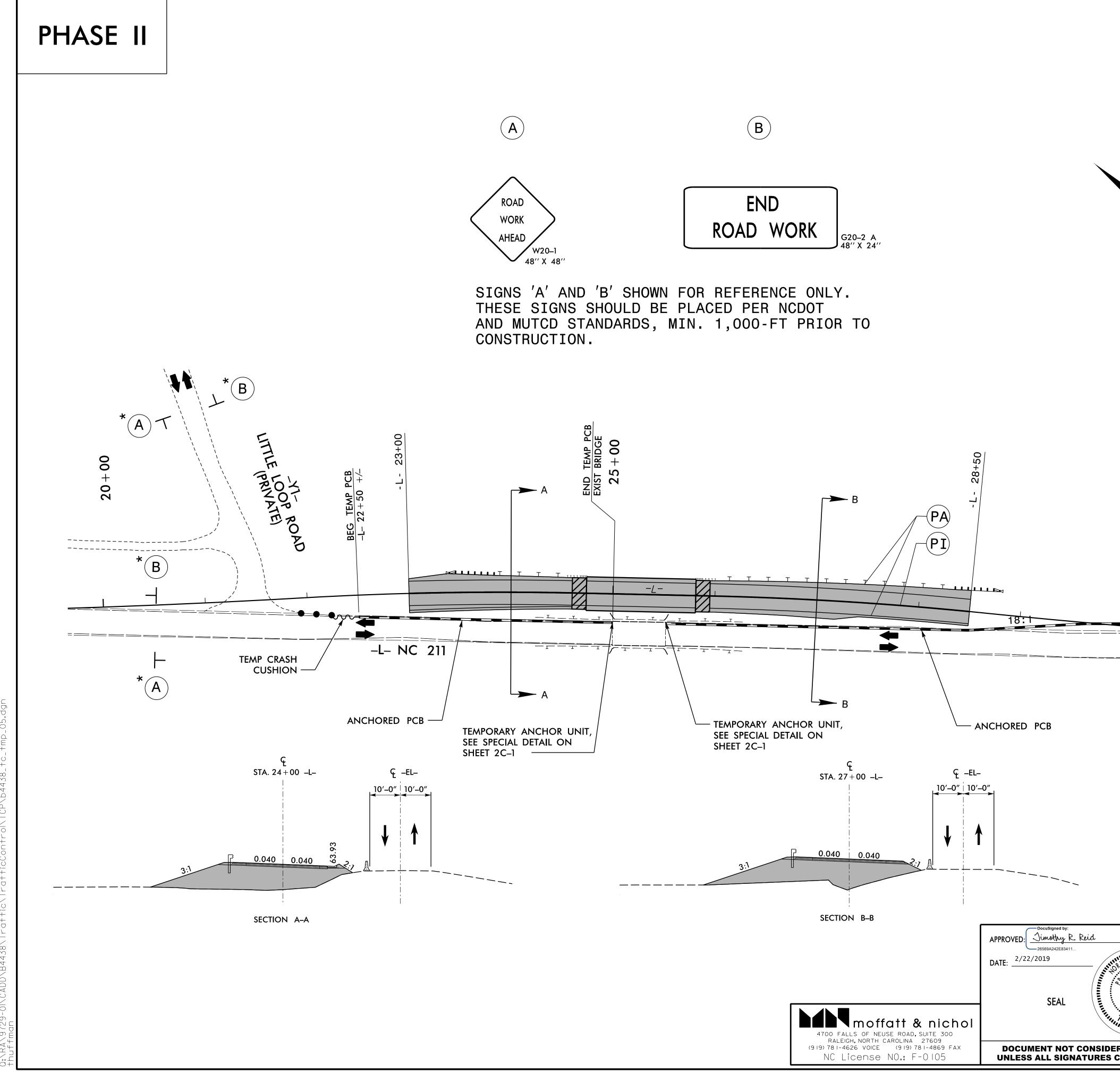
SHORING LOCATION NO.1	BEGIN STATION & OFFSET	END STATION & OFFSET	ESTIMATED AVERAGE HEIGHT	ESTIMATED MAXIMUM HEIGHT	SHORING LOCATION TYPE	SHORING QUANTITY
NO.1	-L- 25+60+/-, 20'+/- RT	-L- 31+80+/-, 12'+/- LT	10.0 FT	12.0 FT	ROADWAY	6200 SF



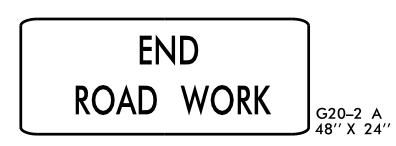




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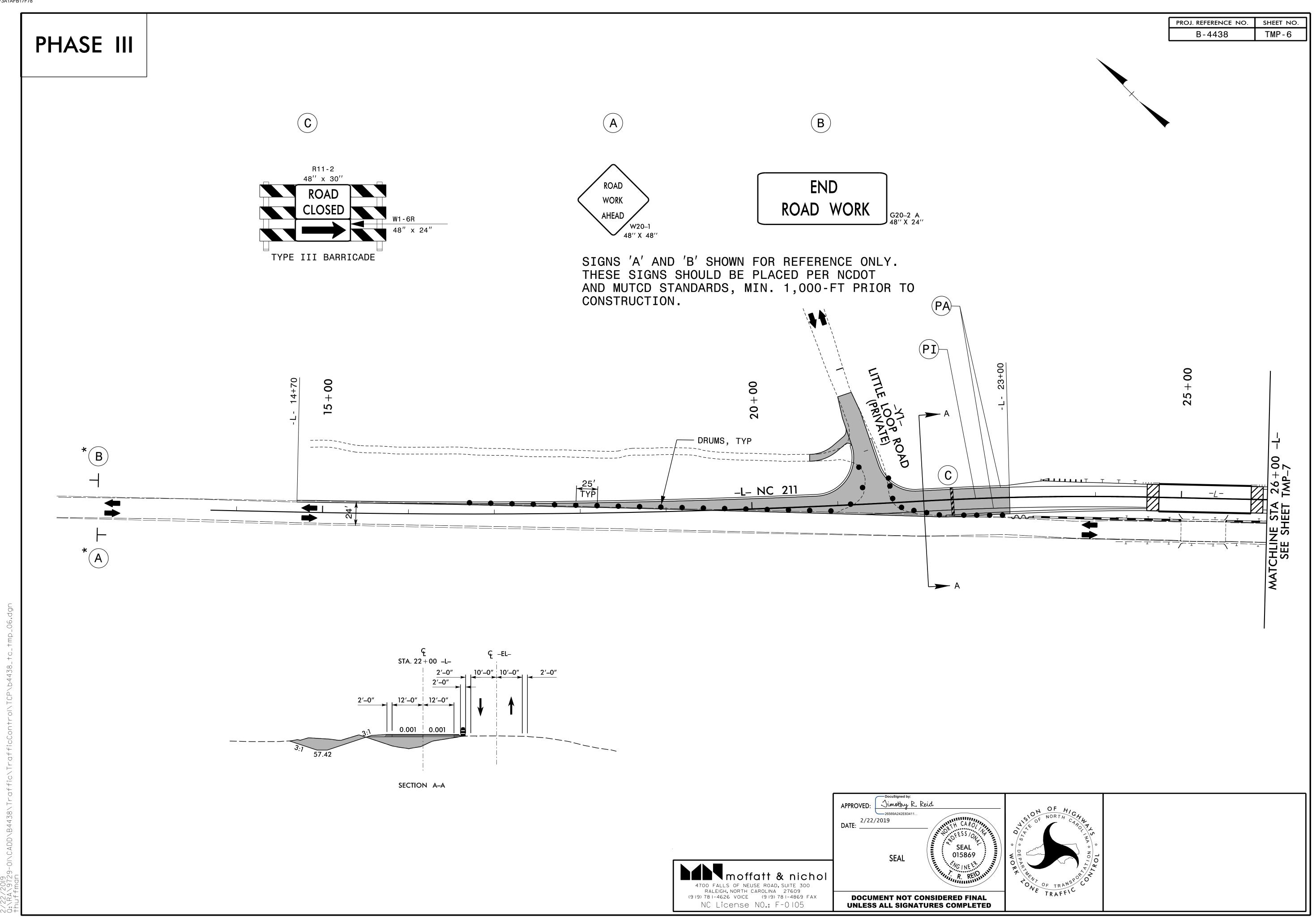


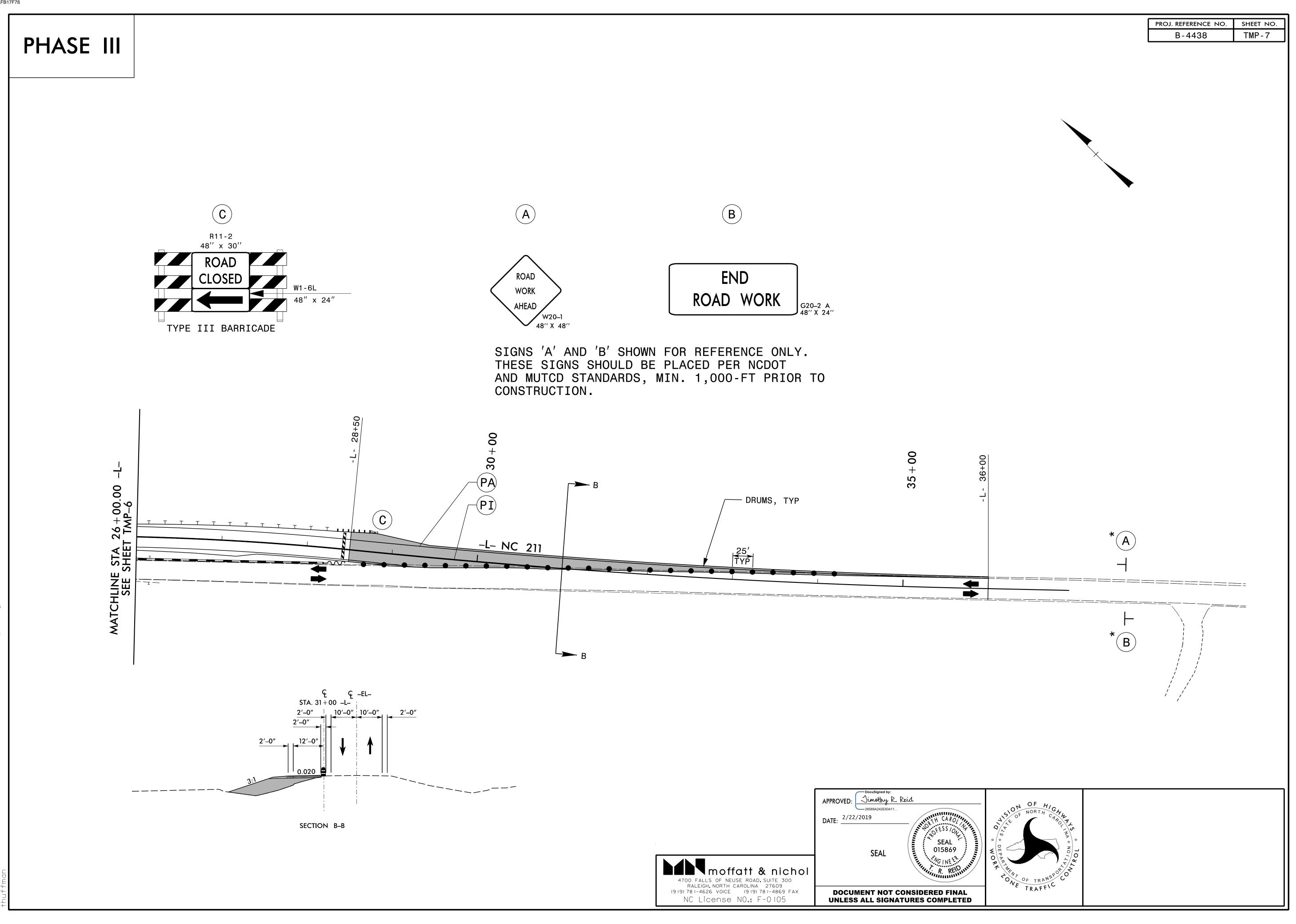
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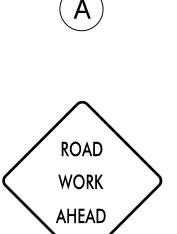


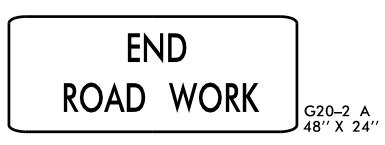
	PROJ. REFERENCE NO.	SHEET NO.
	B-4438	TMP-5
0		
<b>)</b> + 0		
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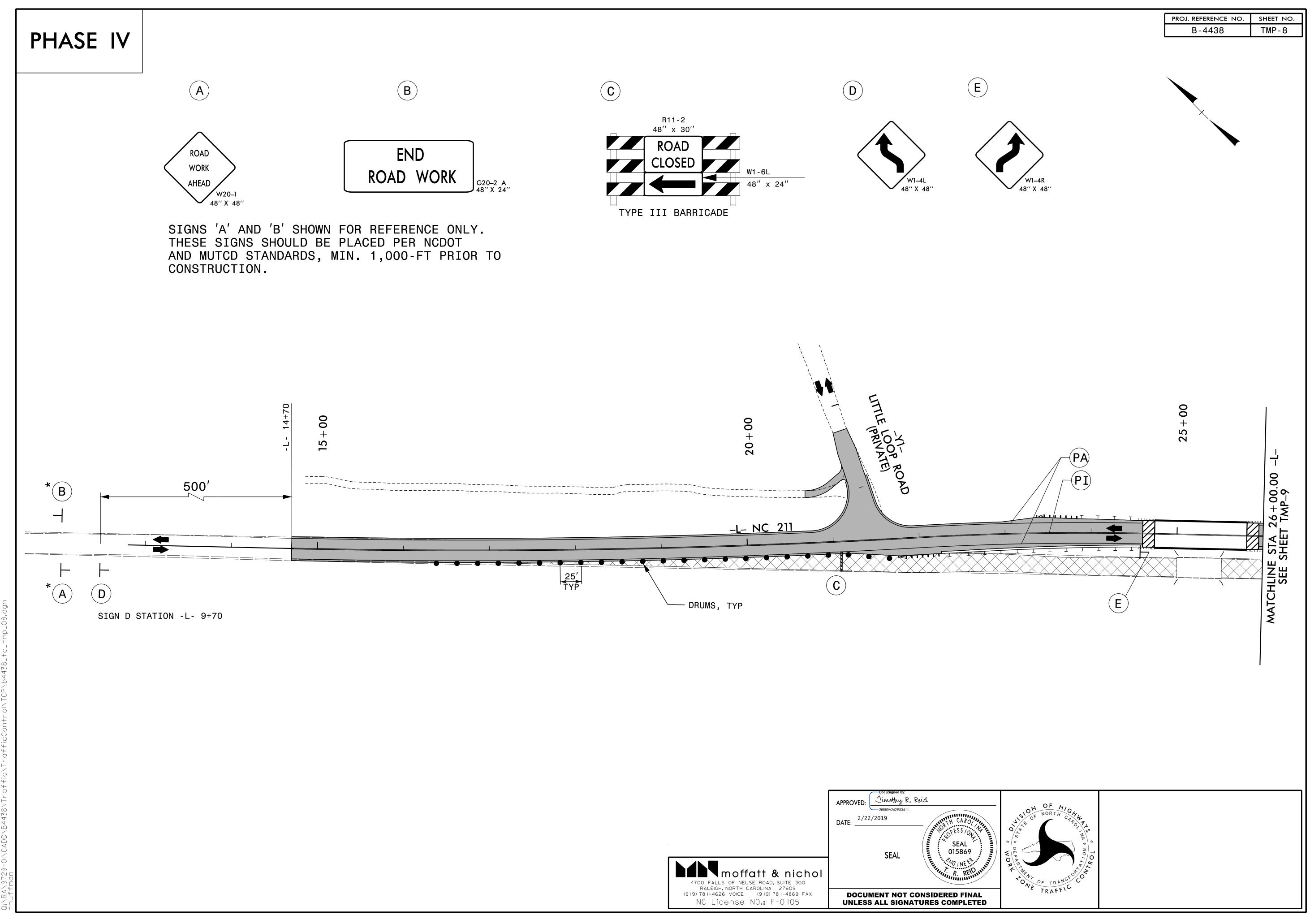
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