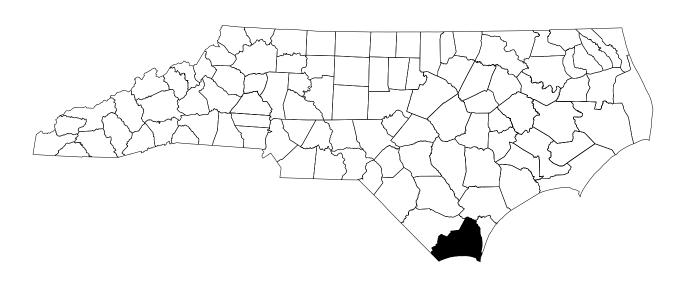
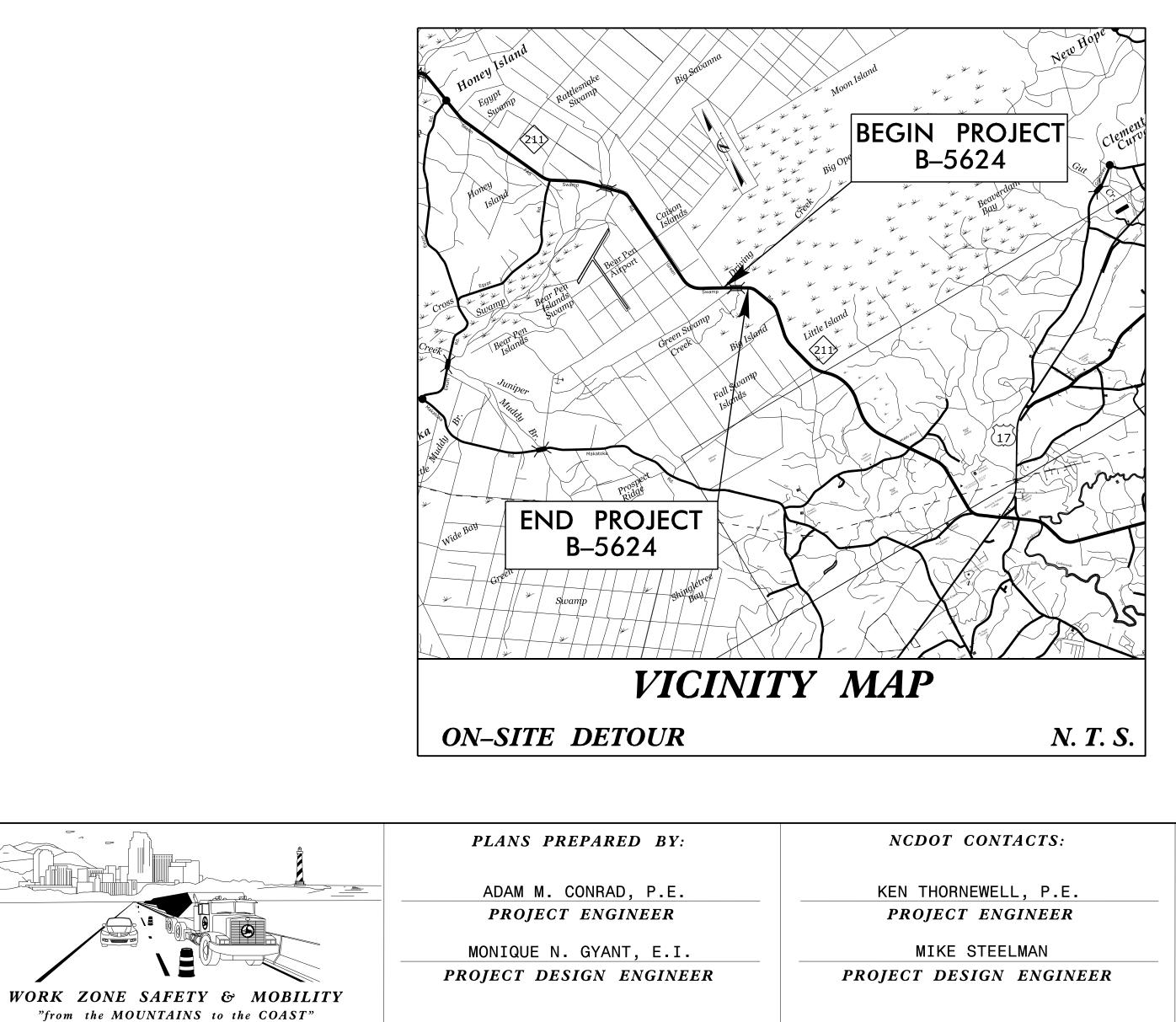


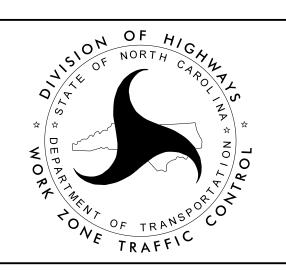
BRUNSWICK COUNTY





TRANSPORTATION MANAGEMENT PLAN

LOCATION: REPLACE BRIDGE NO. 57 OVER DRIVING CREEK ON NC 211 (GREEN SWAMP ROAD NW)





SHEET NO TMP - 1 TMP-1A

TMP-1B TMP-1C TMP-2 TMP-3 to TMF TMP-5 to TMF

TMP-7

INDEN OF SHEETS	SHEET NO.
INDEX OF SHEETS	TMP-1
. <u>TITLE</u>	
TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS	
LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND	
TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)	
TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES AND PHASING NOTES)	
TEMPORARY SHORING NOTES	
P-4 TEMPORARY TRAFFIC CONTROL PHASE I DETAIL	
P-6 TEMPORARY TRAFFIC CONTROL PHASE II DETAIL	
TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS	

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	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
CDM Smith Inc. 5400 Glenwood Avenue Suite 400 Raleigh, NC 27612-3228 NC COA No. F-1255	APPROVED: Adam M. Consod, PC, PMP ODDCOFFAOFD94AD DATE: 6/4/2021 SEAL SEAL SEAL

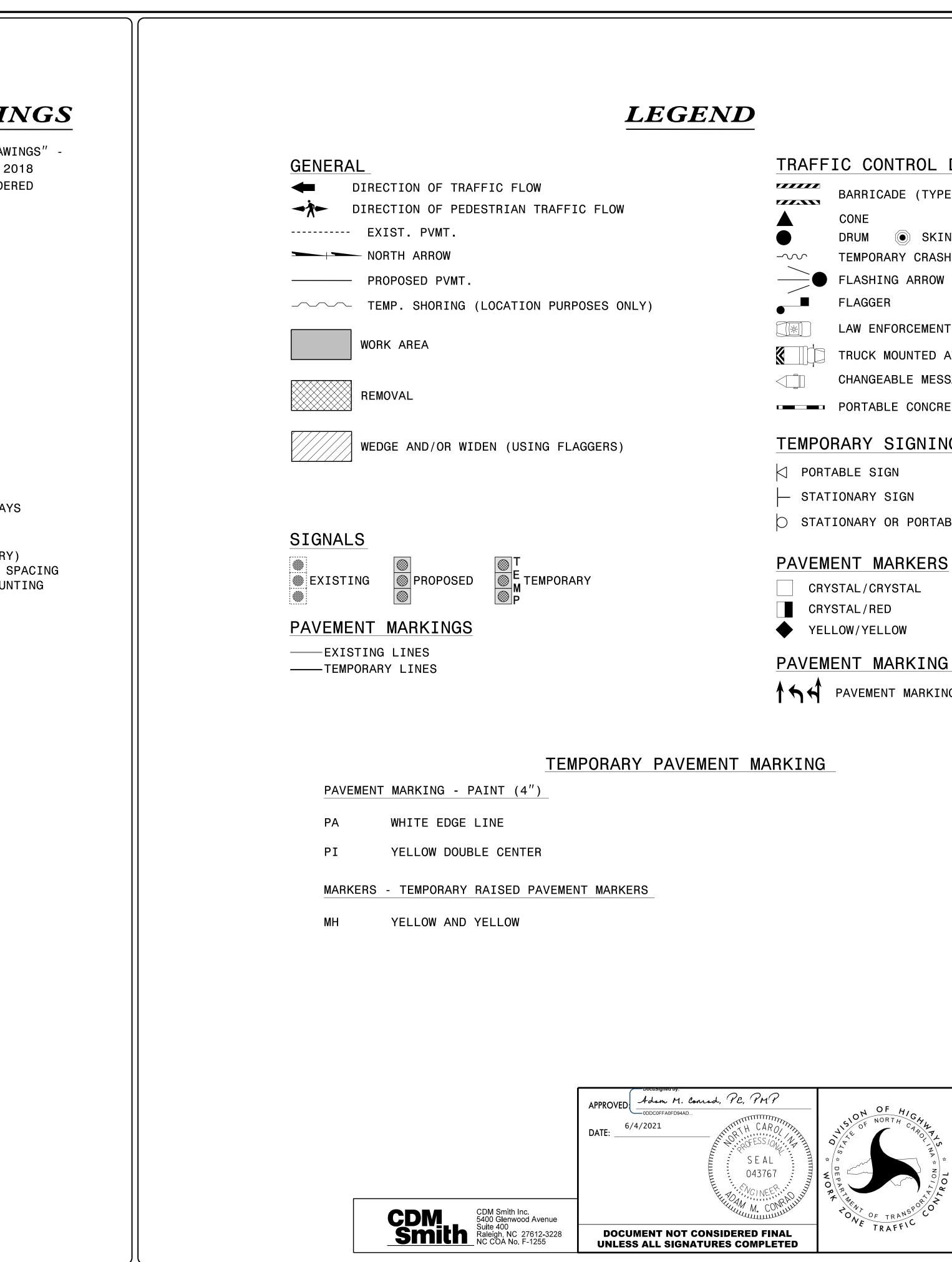
ROADWAY STANDARD DRAWINGS

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

	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE 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
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION
	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAY
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION S
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUN
	GUARDRAIL END DELINEATION



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PROJ. REFERENCE NO.	SHEET NO.	
B-5624	<u>TMP-</u> 1A	

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
	PORTABLE CONCRETE BARRIER

TEMPORARY SIGNING

- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

ROADWAY STANDARD DRAWINGS & LEGEND

MANAGEMENT **STRATEGIES**

MAINTENANCE OF TRAFFIC FOR THIS PROJECT HAS BEEN DIVIDED INTO THREE PHASES USING A STAGED CONSTRUCTION METHOD WITH NC 211 TRAFFIC BEING MAINTAINED ON THE EXISTING ROADWAY UNTIL THE PROPOSED DETOUR BRIDGE IS CONSTRUCTED. NC 211 TRAFFIC WILL THEN BE SHIFTED TO THE TEMPORARY ON-SITE DETOUR TO FACILITATE THE CONSTRUCTION OF THE PERMANENT PROPOSED BRIDGE. TEMPORARY LANE CLOSURES, WITH THE USE OF FLAGGERS, WILL BE UTILIZED DURING TIE-IN AND WEDGING OPERATIONS.

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 TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

-L- NC 211

HOLIDAY

- 1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC PAVEMENT EDGE DROP OFF REQUIREMENTS VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 4:00 P.M. DECEMBER 31ST TO 9:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 A.M. THE FOLLOWING TUESDAY.
- 3. FOR EASTER, BETWEEN THE HOURS OF 4:00 P.M. THURSDAY AND 9:00 A.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY TO 9:00 A.M. TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 4:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 4:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- 6. FOR LABOR DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY AND 9:00 A.M. TUESDAY.
- 7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 4:00 P.M. TUESDAY TO 9:00 A.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 4:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC B) 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

- C) 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.
- D) 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.
- E) 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 F) 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.
- DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN G) TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

H) 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.

I) 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.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- K) 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.
- L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.



M) INSTALL BL (W8-1) 50 ENGINEER.

TRAFFIC BARRIE

N) INSTALL TE PLANS A M LOCATION. PROCEED I IN THAT L MANAGEMEN

> DO NOT PL CONCRETE.

- ONCE TEMP IS PERFOR THAN TWO COST TO T TRANSPORT A HAZARD,
- INSTALL T THE UPSTR THE TRAFF

INSTALL A LIMIT (MP UNTIL THE TEMPORARY

0) PROTECT TH ALL TIMES EITHER A TEMPORARY

> PROTECT 1 BARRIER F CRASH CUSI CONCRETE OR AS SHO

TRAFFIC CONTRO

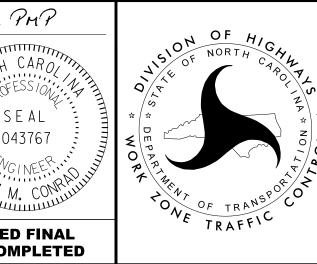
P) WHEN LANE AREAS NO 10 FT ON-REFER TO 1130 (DRU REQUIREME

Q) PLACE TYPE ATTACHED,

	Adam M. Conrad, PC,
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ACK ON ORANGE ''DIP'' SIGNS (W8-2) AND/OR 00' IN ADVANCE OF THE UNEVEN AREA, OR AS		
<u>:R</u>		
MPORARY BARRIER ACCORDING TO THE TRANSPO MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINN ONCE TEMPORARY BARRIER IS INSTALLED AT N A CONTINUOUS MANNER TO COMPLETE THE PR OCATION UNLESS OTHERWISE STATED IN THE T IT PLANS OR AS DIRECTED BY THE ENGINEER.	ING WORK IN ANY ANY LOCATION ROPOSED WORK	ENT
ACE BARRIER DIRECTLY ON ANY SURFACE OTHE	ER THAN ASPHALT (OR
PORARY BARRIER IS INSTALLED AT ANY LOCAT MED BEHIND THE TEMPORARY BARRIER FOR A F (2) MONTHS, REMOVE / RESET TEMPORARY BAR THE DEPARTMENT UNLESS OTHERWISE STATED IN TATION MANAGEMENT PLANS, TEMPORARY BARRIE OR AS DIRECTED BY THE ENGINEER.	PERIOD LONGER RRIER AT NO N THE	
EMPORARY BARRIER WITH THE TRAFFIC FLOW E REAM SIDE OF TRAFFIC. REMOVE TEMPORARY BA FIC FLOW BEGINNING WITH THE DOWNSTREAM SI	ARRIER AGAINST	
ND SPACE DRUMS NO GREATER THAN TWICE THE PH) TO CLOSE OR KEEP THE SECTION OF THE F E TEMPORARY BARRIER CAN BE PLACED OR AFTE Y BARRIER IS REMOVED.	ROADWAY CLOSED	
IE APPROACH END OF MOVABLE/PORTABLE CONC DURING THE INSTALLATION AND REMOVAL OF TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOU CRASH CUSHION.	THE BARRIER BY	
THE APPROACH END OF MOVABLE/PORTABLE CONG ROM ONCOMING TRAFFIC AT ALL TIMES BY A T GHION UNLESS THE APPROACH END OF MOVABLE, BARRIER IS OFFSET FROM ONCOMING TRAFFIC OWN IN THE PLANS: (SEE ALSO 1101.05)	TEMPORARY / PORTABLE	
POSTED SPEED LIMIT MINIMUM OF 40 OR LESS 15 F1 45 - 50 20 F1 55 25 F1 60 MPH or HIGHER 30 F1	r r r	
DL DEVICES		
CLOSURES ARE NOT IN EFFECT SPACE CHANNEL GREATER IN FEET THAN TWICE THE POSTED SF CENTER IN RADII, AND 3 FT OFF THE EDGE (STANDARD SPECIFICATIONS FOR ROADS AND ST MS), 1135 (CONES) AND 1180 (SKINNY DRUMS ENTS.	PEED LIMIT (MPH) DF AN OPEN TRAVE TRUCTURES SECTIO	EXCEPT, _WAY. NS
E III BARRICADES, WITH "ROAD CLOSED" SIGN OF SUFFICIENT LENGTH TO CLOSE ENTIRE RO		



TRANSPORTATION OPERATIONS PLAN

 R) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAON INTERIM LAYERS OF PAVEMENT AS FOLLOWS: <u>ROAD NAME</u> MARKING <u>NC 211 -LDET</u> PAINT NC 211 -L- PAINT S) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE APPLIGATION AND EVERY SIX MONTHS AS DIRECTED BY THE T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVE LINES. U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKERS BY THE END OF EACH DAY'S OPERATION. 	VEMENT MA
NC 211 -LDET- NC 211 -L- PAINT S) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVE LINES. U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARK	
NC 211 -L- PAINT S) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVE LINES. U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARK	
 SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVE LINES. U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARK 	TEM TEM
U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARK	INITIAL
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NOTES: COMPLETE ANY PROPOSED WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE. THIS MAY REQUIRE COMBINATION OF INSTALLATION OF PROPOSED PIPES, TEMPORARY PIPES, STEEL PLATES, AND TEMPORARY DITCHES.

> ALL REFERENCES TO CONSTRUCTION INCLUDE PAVING UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE UNLESS SPECIFICALLY CALLED FOR.

STEP 1: INSTALL ADVANCE WORK ZONE WARNING SIGNS ACCORDING TO ROADWAY STANDARD DRAWING (RSD) 1101.01 (SHEET 3 OF 3). AWAY FROM TRAFFIC, CONSTRUCT DETOUR BRIDGE AND ROADWAY FROM -LDET- STA 13+78+/- TO -LDET- STA 20+17+/- (SEE SHEET TMP-3).

STEP 2: USING RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS, CONSTRUCT DETOUR TIE-INS FROM -LDET- STA 10+51+/- TO -LDET- STA 13+78+/ AND FROM -LDET- STA 20+17+/- TO -LDET- STA 23+95+/- (SEE SHEE TMP-3 AND TMP-4).

PHASE II:

PHASE I:

- STEP 1: AWAY FROM TRAFFIC AND/OR USING RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS, AS NEEDED, PLACE THE FINAL LAYER OF ASPHALT AND INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -LDET-. USING RSD 1101.03 (SHEET 3 OF 9) SHIFT TRAFFIC ONTO THE DETOUR AS SHOWN ON SHEETS TMP-5 AND TMP-6.
- AWAY FROM TRAFFIC AND/OR USING RSD 1101.02 (SHEET 1 OF 14) AND STEP 2: FLAGGERS, AS NEEDED, REMOVE EXISTING BRIDGE (REFER TO STRUCTURE PLANS) AND CONSTRUCT -L- FROM -L- STA 14+00+/- TO -L- STA 21+04+/- (INCLUDING THE PROPOSED BRIDGE) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE TMP-5).
- STEP 3: USING RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS, CONSTRUCT AS MUCH OF THE WIDENING/WEDGING AS POSSIBLE FROM -L- STA 10+44+/ TO -L- STA 14+00+/- AND FROM -L- STA 21+04+/- TO -L- STA 24+47+/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. INSTALL ANCHORED/UNANCHORED PORTABLE CONCRETE BARRIER USING RSD 1170.01 FROM -L- STA 14+00+/- TO -L- STA 21+00+/-. PLACE TEMPORARY PAINT PAVEMENT MARKINGS IN THE PROPOSED FINAL TRAFFIC PATTERN (SEE TMP-5 AND TMP-6).

USING RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS, WEDGE -LDET-AS NEEDED TO ALLOW FOR A SMOOTH PAVEMENT TRANSITION FOR THE PHASE III TRAFFIC SHIFT AT EACH TIE IN LOCATION.

- PHASE III (NOT SHOWN)
- STEP 1: SHIFT DETOUR TRAFFIC BACK TO -L- IN THE FINAL TRAFFIC PATTERN. USING RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS, CONSTRUCT REMAINING WIDENING/WEDGING/RESURFACING ON -L- FROM -L- STA 10+44+/- TO -L- STA 14+00+/- AND FROM -L- STA 21+04+/- TO -L-STA 24+47+/- . ALSO, CONSTRUCT REMAINING PAVED SHOULDER, GUARDRAIL AND FILL SLOPES PROTECTED BY THE ANCHORED/UNANCHORE PORTABLE CONCRETE BARRIER FROM -L- STA 14+00+/- TO -L- STA 21+00+/-
- STEP 2: USING RSD 1101.02 (SHEET 1 OF 14) AND/OR AWAY FROM TRAFFIC, REMOVE DETOUR ROADWAY AND BRIDGE.
- STEP 3: USING RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS, PLACE FINAL LAYER OF SURFACE COURSE ON -L- FROM -L- STA 10+44+/- TO -L-STA 24+47+/-. PLACE FINAL PAVEMENT MARKINGS/MARKERS IN FINAL TRAFFIC PATTERN.
- STEP 4: REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

	APPROVED: Adam M. Conrad, PE, PMP
	6/7/2021
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SHORING LOCATION NO. 1 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION 16+84 -L-, 28 FT RIGHT, TO STATION 17+16 -L-, 28 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

> UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 59 FT

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION 16+84 -L-, 28 FT RIGHT, TO STATION 17+16 -L-, 28 FT RIGHT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 (SHEET 2G-1) FOR STANDARD TEMPORARY SHORING.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 16+84 -L-, 28 FT RIGHT, TO STATION 17+16 -L-, 28 FT RIGHT.

SHORING LOCATION NO. 2 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION 17+76 -L-, 28 FT RIGHT, TO STATION 18+08 -L-, 28 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ)= 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 59 FT

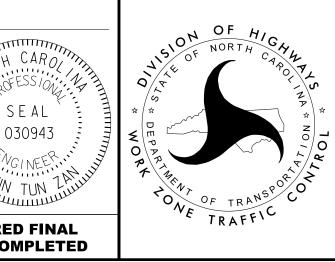
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION 17+76 -L-, 28 FT RIGHT, TO STATION 18+08 -L-, 28 FT RIGHT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 (SHEET 2G-1)FOR STANDARD TEMPORARY SHORING.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 17+76 -L-, 28 FT RIGHT, TO STATION 18+08 -L-, 28 FT RIGHT.

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION ON APRIL 15, 2021 AND SEALED BY A PROFESSIONAL ENGINEER, THEIN TUN ZAN, PE.

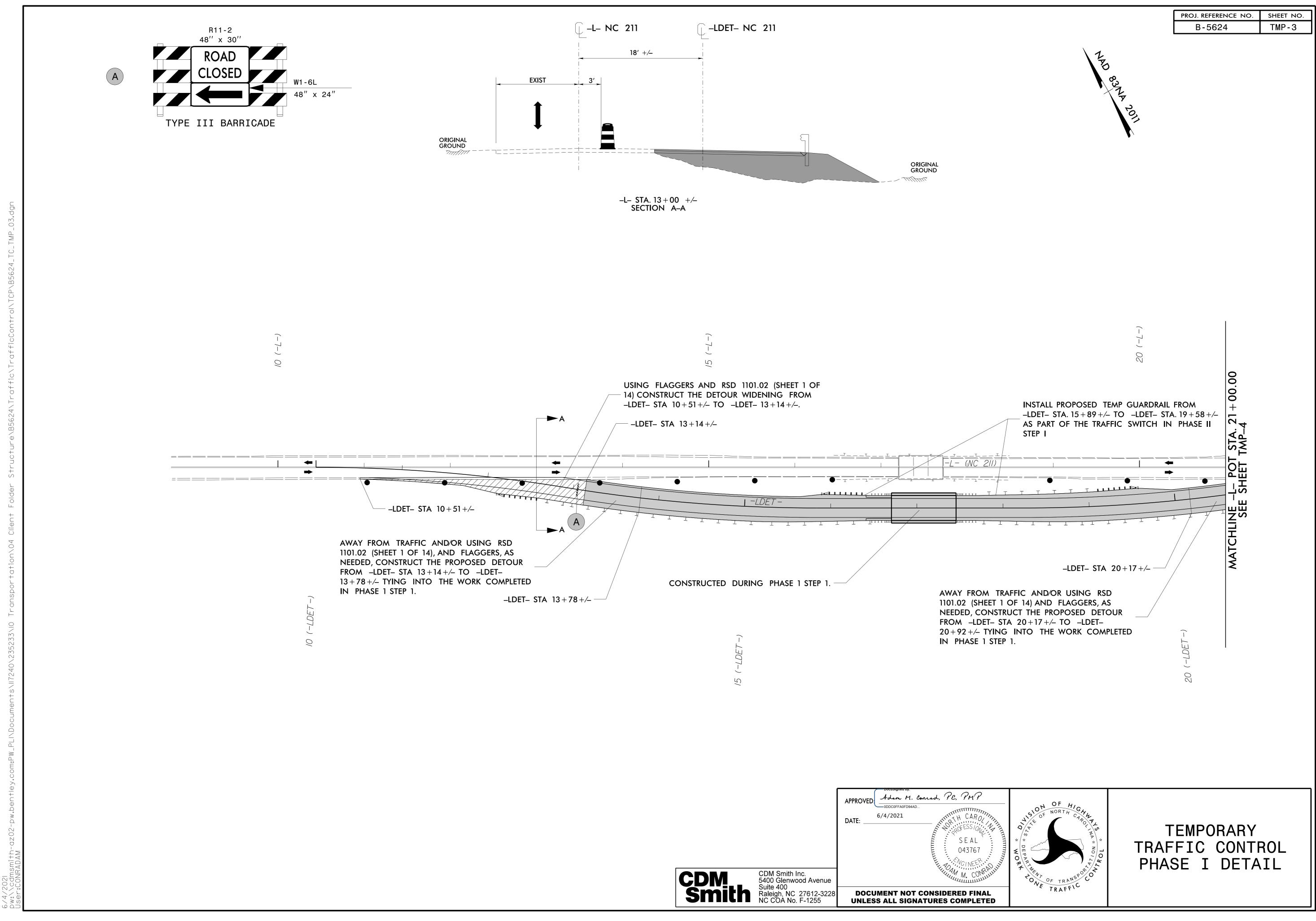
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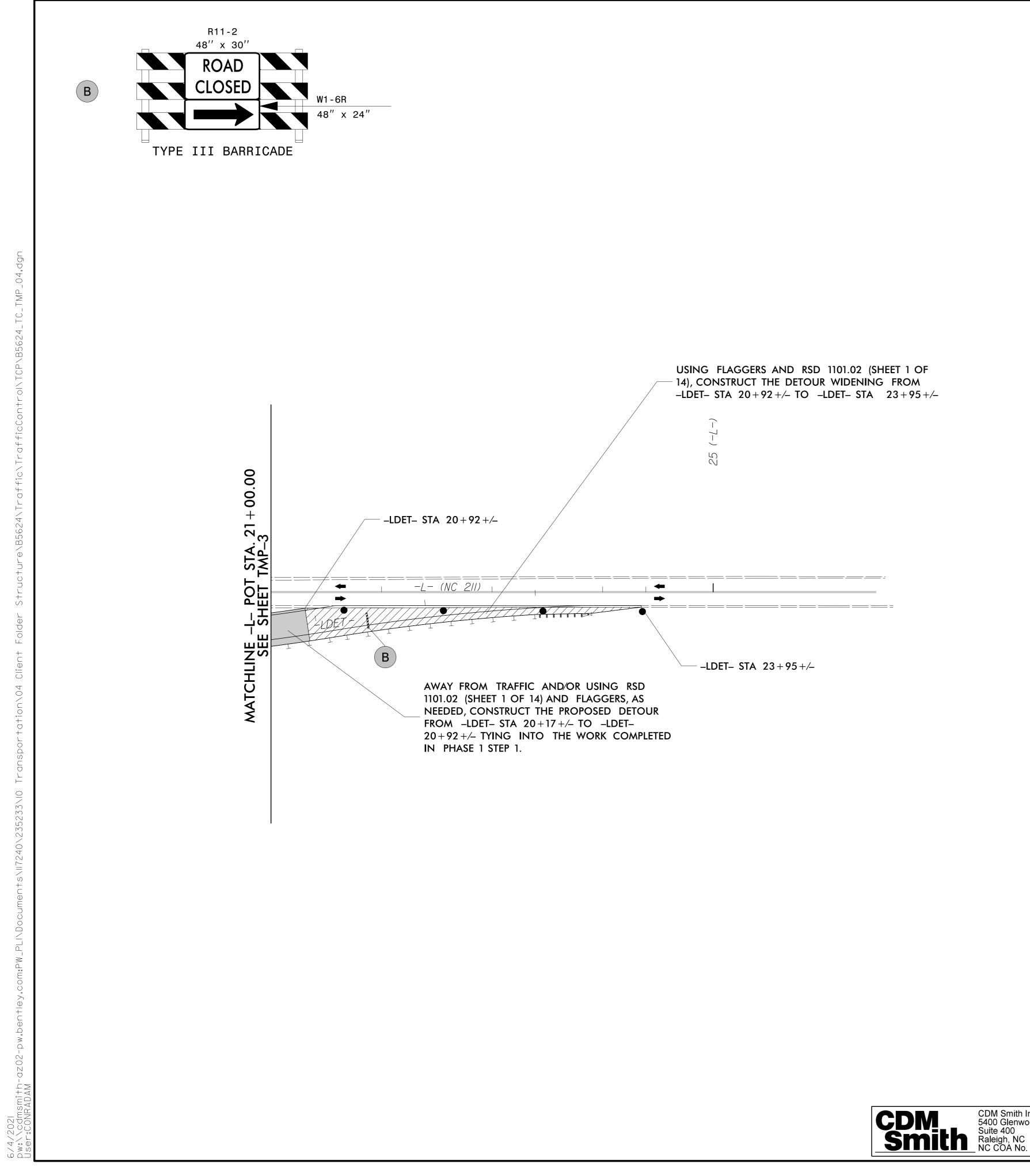


TEMPORARY SHORING NOTES

TMP-2	SHEET NO.	PROJ. REFERENCE NO.
		B-5624



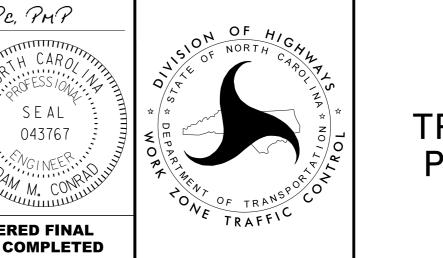
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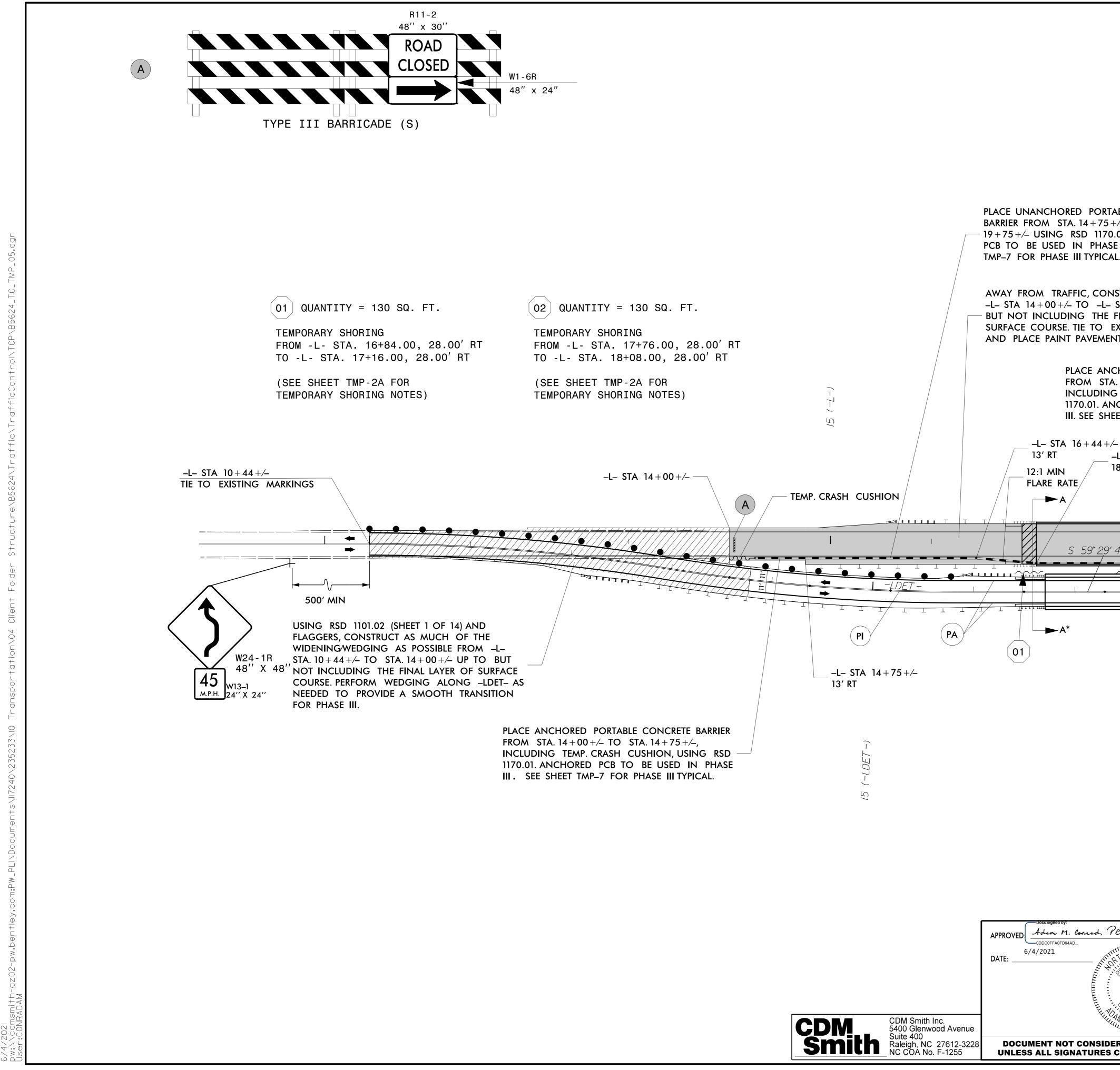


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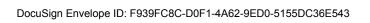
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TEMPORARY TRAFFIC CONTROL PHASE I DETAIL

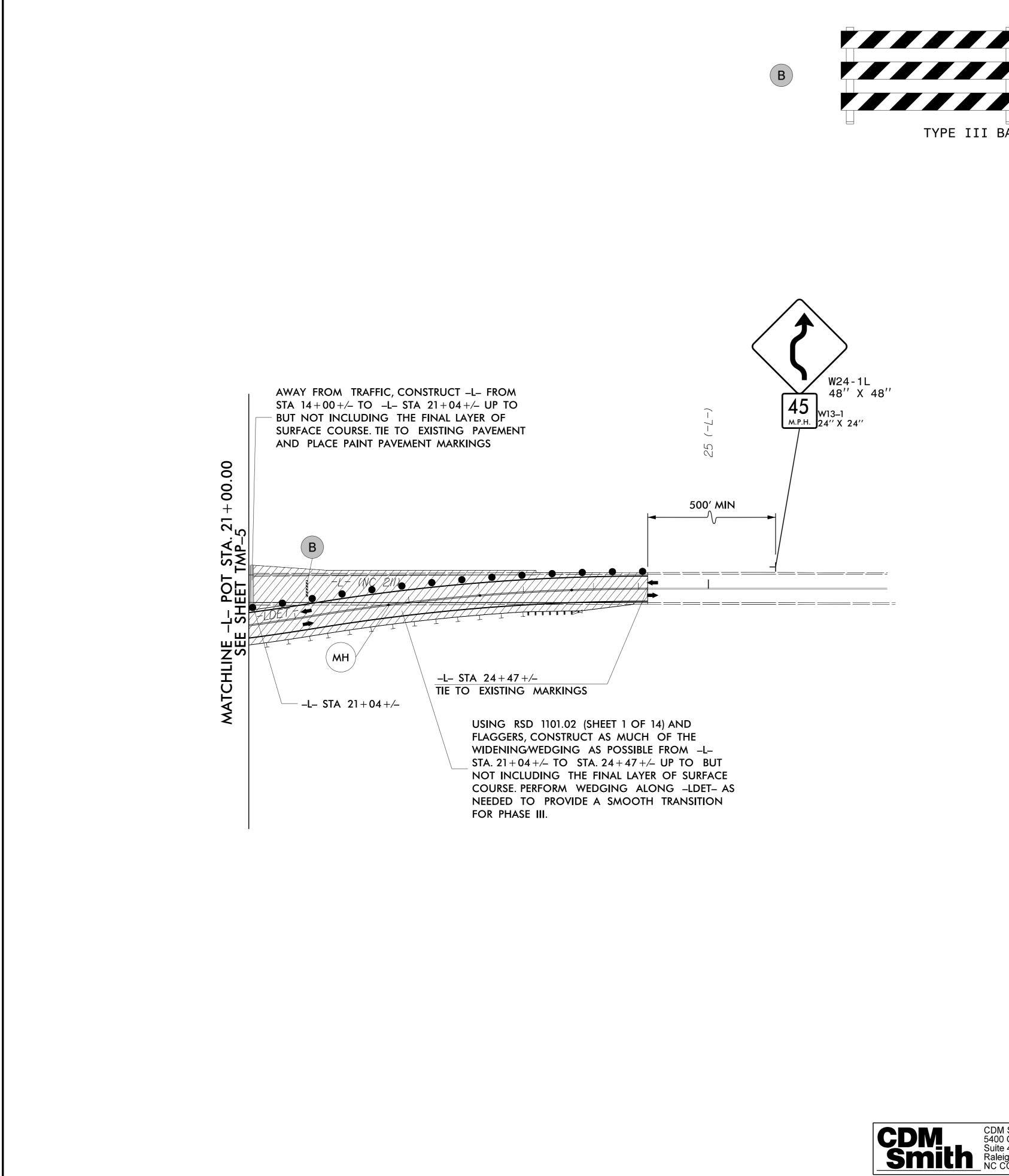


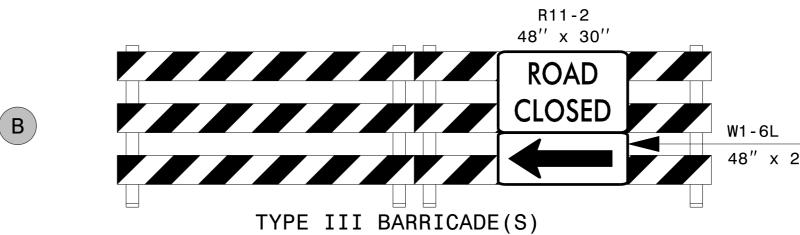
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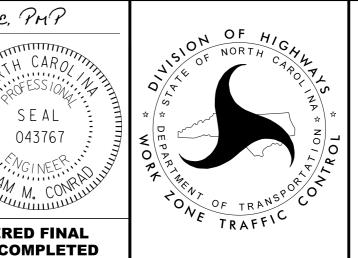
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A Smith Inc. D Glenwood Avenue e 400 eigh, NC 27612-3228 COA No F-1255 DOCUMENT NOT CONSIDER UNLESS ALL SIGNATURES C		APPROVED: <u>Adam M. Consod</u> , PE, ODDCOFFAOFD94AD 6/4/2021 DATE: <u>6/4/2021</u>
	Glenwood Avenue	7

		proj. reference no. B-5624	sheet no. TMP-6
24"	NAD 83NA PO).	
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TEMPORARY TRAFFIC CONTROL PHASE II DETAIL

