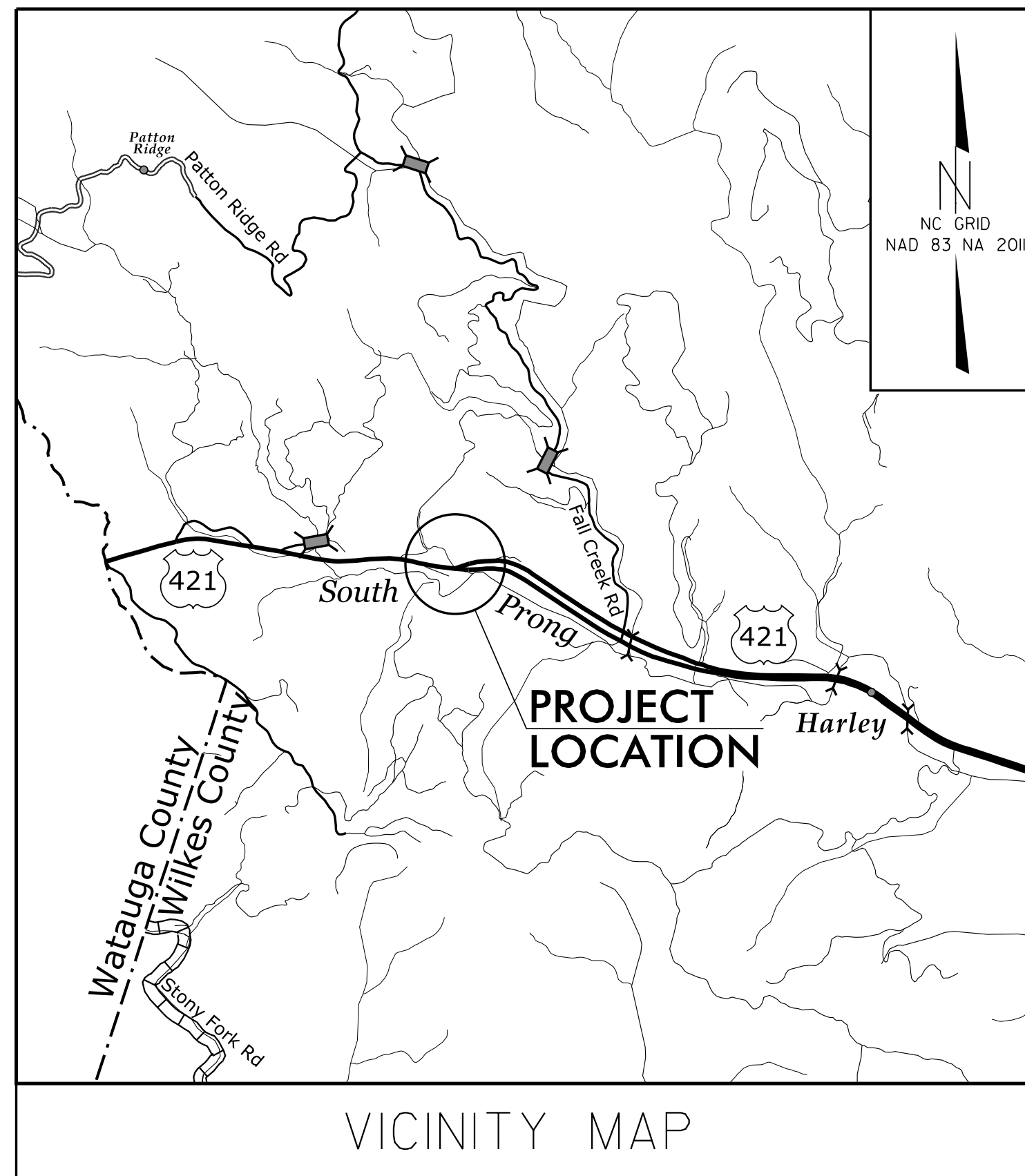
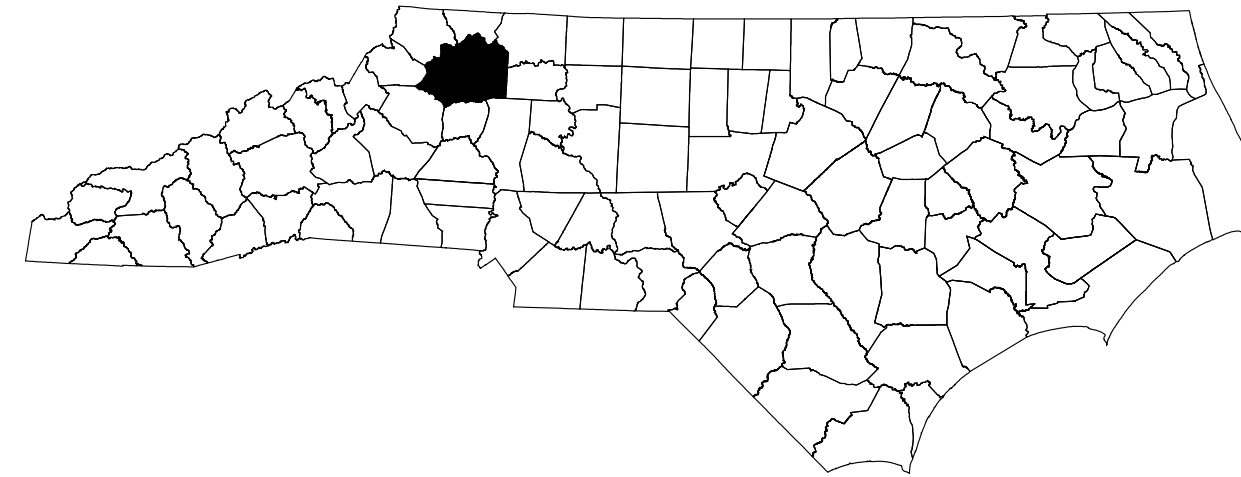


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WILKES COUNTY
DIVISION 11



**LOCATION: US 421 RE-ALIGNMENT SAFETY IMPROVEMENT
PROJECT BETWEEN WILKESBORO AND BOONE**

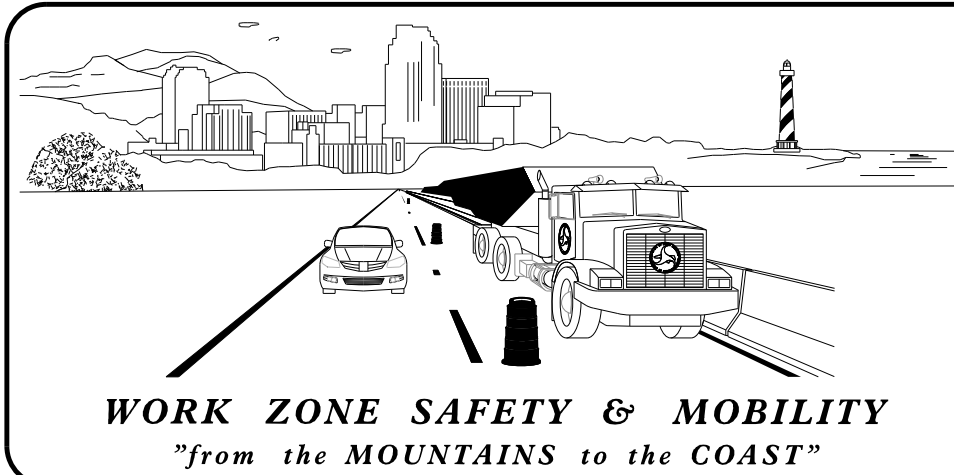
INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES AND LOCAL NOTES)
TMP-2	TEMPORARY TRAFFIC CONTROL PHASING NOTES
TMP-3 THRU TMP-9	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-10 THRU TMP-16	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-17 THRU TMP-23	TEMPORARY TRAFFIC CONTROL PHASE III DETAIL

SHEET NO.

TMP-1

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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1580 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1580
1020 BIRCH RIDGE DRIVE, RALEIGH, NC 27610 (DELIVERY)
PHONE: (919) 250-4094 FAX: (919) 250-4098

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
LLOYD D. BROWN, P.E. TRAFFIC CONTROL PROJECT ENGINEER
REECE SCHULER, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
C. GONZALEZ-MARTELL TRAFFIC CONTROL DESIGN ENGINEER



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Consulting Engineers
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Asheville, North Carolina 828-253-2796
Charlotte, North Carolina 704-837-7805

PROJECT ENGINEER LLOYD D. BROWN, P.E.
DESIGN ENGINEER C. GONZALEZ-MARTELL

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UNLESS ALL SIGNATURES COMPLETED**

APPROVED: *Lloyd D. Brown*
DATE: 7/19/2017

SEAL

TIP PROJECT: W5521

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 JANUARY 2012 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 PANELS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
	PAINT
PA	WHITE EDGE LINE (4")
PB	YELLOW EDGE LINE (4")
PI	YELLOW DOUBLE CENTER (4")

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW PANEL (TYPE C)
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

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APPROVED *Lloyd D. Brown* DATE: 7/19/2017

ROADWAY STANDARD DRAWINGS & LEGEND

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GENERAL NOTES / LOCAL 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.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) 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.
- B) 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.
- C) 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.
- D) 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.
- E) 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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- F) 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.
- G) 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.

LOCAL NOTES:

- 1) EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES.
- 2) NOTIFY THE WILKES COUNTY SCHOOL BOARD 30 DAYS PRIOR TO ANY LANE CLOSURES.
- 3) MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- I) 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.
- J) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- K) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100 ft IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

- L) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

- M) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS:

POSTED SPEED LIMIT (MPH)	MINIMUM OFFSET (FT)
40 OR LESS	15
45-50	20
55	25
60 OR HIGHER	30

TRAFFIC CONTROL DEVICES

- N) 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.
- O) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKING

- P) INSTALL TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
US 421	PAINT	TEMP. RAISED

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

MISCELLANEOUS

- T) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 100 ft AND 200 ft RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

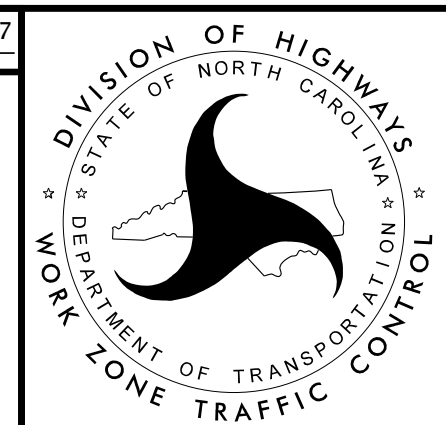
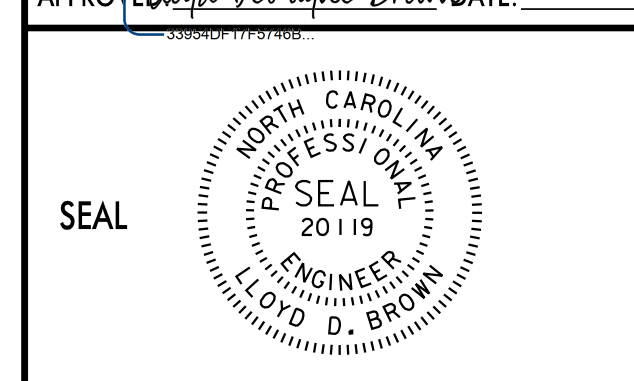
MANAGEMENT STRATEGIES

PHASE I DEPICTS EB TRAFFIC TO BE SHIFTED TO THE LEFT WB LANE, AND MAINTAIN THE WB TRAFFIC ON THE RIGHT WB LANE, ON A TWO-LANE TWO-WAY PATTERN USING TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS WHILE THE EB PROPOSED ROADWAY IS CONSTRUCTED, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

PHASE II DEPICTS EB TRAFFIC TO BE SHIFTED TO THE PARTIALLY CONSTRUCTED RIGHT EB LANE, AND MAINTAIN THE WB TRAFFIC ON THE RIGHT WB LANE, USING TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS WHILE THE MEDIAN AND PROPOSED CONCRETE BARRIER ARE CONSTRUCTED, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

PHASE III DEPICTS WB TRAFFIC TO BE SHIFTED TO THE LEFT WB LANE, AND MAINTAIN THE EB TRAFFIC ON THE RIGHT EB LANE USING TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS WHILE THE A PORTION OF THE WB PROPOSED ROADWAY AND FINAL LAYER OF SURFACE COURSE ARE CONSTRUCTED.

APPROVED: *Lloyd D. Brown* DATE: 7/19/2017



TRANSPORTATION OPERATIONS PLAN
(MANAGEMENT STRATEGIES & GENERAL NOTES)

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PROJ. REFERENCE NO.	SHEET NO.
W5521	TMP-2

PROJECT PHASING

PHASE I

- STEP 1: INSTALL ADVANCED WARNING SIGNS ON US-HWY-421, AND ALL -Y- LINES ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.01, SHEET 2 OF 3.
- STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, PERFORM THE FOLLOWING ON US-HWY-421, -L1-:
- REMOVE, AS NECESSARY, EXISTING PAVEMENT MARKINGS, AND PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS (PAINT) AS SHOWN ON PLANS (SEE SHEET TMP-4 THRU TMP-8).
 - PLACE WARNING SIGNS, TRAFFIC CONTROL DEVICES AND CHANGEABLE MESSAGE SIGNS TO ENSURE THAT THE EMERGENCY TRUCK RAMP REMAINS OPEN AT ALL TIMES. (SEE SHEET TMP-3 THRU TMP-5).
- USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, INSTALL TEMPORARY PORTABLE CONCRETE BARRIER AND CRASH CUSHIONS AT THE FOLLOWING LOCATIONS.
- -L1- (US-HWY-421) EB FROM -L1- STA. 13+49± TO -L1- STA. 34+53± (SEE SHEET TMP-6 THRU TMP-8).
 - -L1- (US-HWY-421) WB FROM -L1- STA. 21+00± TO -L1- STA. 31+02± (SEE SHEET TMP-6 THRU TMP-7).
- STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, PERFORM THE FOLLOWING ON US-HWY-421, -L1-:
- CLOSE US-HWY-421 EB LANES AND SHIFT EB TRAFFIC TO THE LEFT WB LANE, AND MAINTAIN THE WB TRAFFIC ON THE RIGHT WB LANE, ON A TWO-LANE TWO-WAY PATTERN (SEE SHEET TMP-4 THRU TMP-5).
 - UTILIZING TEMPORARY CONCRETE BARRIER AND PORTABLE PLASTIC DRUMS, CHANNELIZE TRAFFIC FLOW AS SHOWN ON PLANS (SEE SHEET TMP-5 THRU TMP-8).
- STEP 4: AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF PROPOSED -L1- (SEE SHEET TMP-6 THRU TMP-8).
- USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, BEGIN CONSTRUCTION UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING:
- -L1- (US-HWY-421) RIGHT EB LANE AND PROPOSED ROADWAY, FROM -L1- STA. 12+00± TO -L1- STA. 34+50± (SEE SHEET TMP-6 THRU TMP-8).
 - PROPOSED RETAINING WALL FROM -L1- STA. 19+70± TO STA. 26+25± (SEE SHEET TMP-6 THRU TMP-7).
 - PROPOSED GUARDRAIL FROM -L1- STA. 19+49± TO -L1- STA. 34+45±, AND TIE TO EXISTING (SEE SHEET TMP-6 THRU TMP-8).

PHASE II


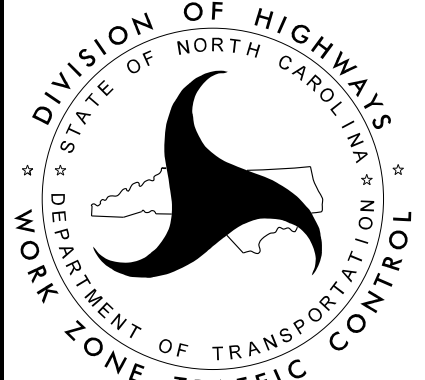
- STEP 1: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, REMOVE CONFLICTING PAVEMENT MARKINGS AND MARKERS, AND PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON PLANS (SEE SHEET TMP-11 THRU TMP-15).
- STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, REMOVE WB TEMPORARY PORTABLE CONCRETE BARRIER AND CRASH CUSHION INSTALLED IN STEP 2, PHASE I.
- STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, REMOVE EB TEMPORARY PORTABLE CONCRETE BARRIER AND CRASH CUSHION INSTALLED IN STEP 2, PHASE I, AND RESET FROM -L1- STA. 12+00± TO -L1- STA. 34+58±.
- STEP 4: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, PERFORM THE FOLLOWING ON US-HWY-421, -L1-:
- CLOSE US-HWY-421 LEFT WB AND LEFT EB LANES, SHIFT THE EB TRAFFIC TO THE RIGHT EB LANE, AND MAINTAIN THE WB TRAFFIC ON THE RIGHT WB LANE (SEE SHEET TMP-11 THRU TMP-15).
- STEP 5: AWAY FROM TRAFFIC, CONTINUE CONSTRUCTION OF PROPOSED -L1- (SEE SHEET TMP-13 THRU TMP-15).
- USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, CONTINUE CONSTRUCTION UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING:
- -L1- (US-HWY-421) LEFT EB AND LEFT WB LANES FROM -L1- STA. 12+00± TO -L1- STA. 34+50± (SEE SHEET TMP-13 THRU TMP-15).
 - PROPOSED PERMANENT CONCRETE BARRIER FROM -L1- STA. 23+95± TO -L1- STA. 31+00± (SEE SHEET TMP-13 THRU TMP-14).

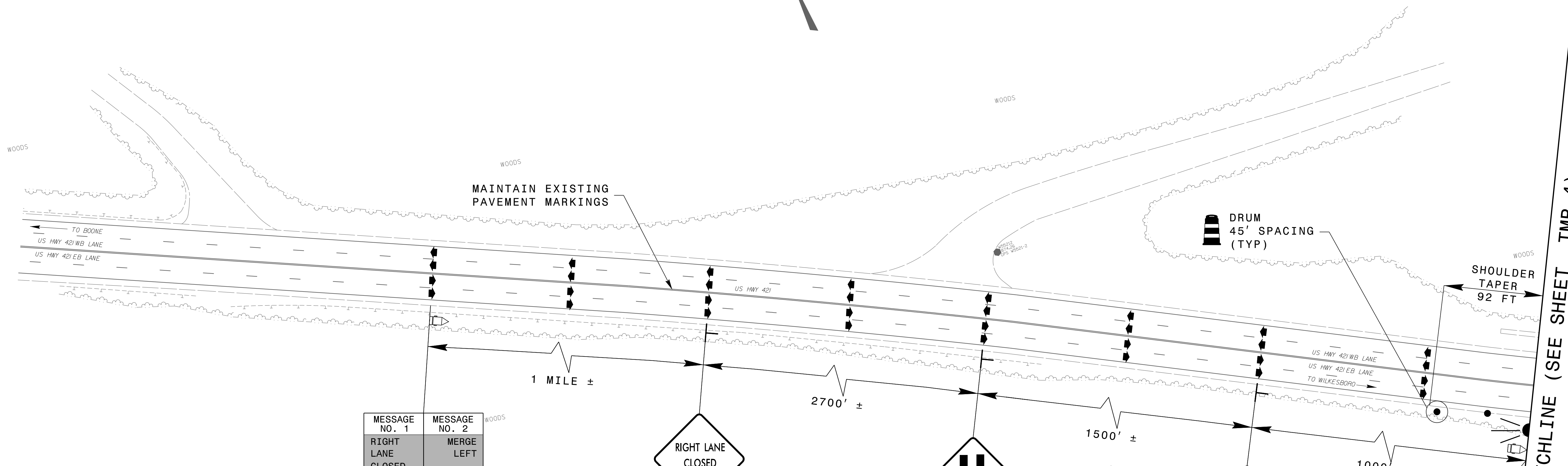
PHASE III

- STEP 1: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, REMOVE CONFLICTING PAVEMENT MARKINGS AND MARKERS, AND PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON PLANS (SEE SHEET TMP-18 THRU TMP-22).
- STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, PERFORM THE FOLLOWING ON US-HWY-421, -L1-:
- CLOSE US-HWY-421 RIGHT WB LANE, SHIFT THE WB TRAFFIC TO THE LEFT WB LANE, AND MAINTAIN THE EB TRAFFIC ON THE RIGHT EB LANE (SEE SHEET TMP-18 THRU TMP-22).
- STEP 3: AWAY FROM TRAFFIC, CONTINUE CONSTRUCTION OF PROPOSED -L1- AND PROPOSED -Y1- (SEE SHEET TMP-20 THRU TMP-21).
- USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, CONTINUE CONSTRUCTION UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING:
- -L1- (US-HWY-421) RIGHT WB LANE AND SHOULDER FROM -L1- STA. 12+00± TO -L1- STA. 26+45± (SEE SHEET TMP-20 THRU TMP-21).
 - -Y1- FROM -Y1- STA. 10+00± TO -Y1- STA. 14+19± (SEE SHEET TMP-20 THRU TMP-21).
- STEP 4: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 & 7 OF 15, AND FLAGGERS AS NECESSARY, PLACE THE FINAL LAYER OF SURFACE COURSE, ALL PAVEMENT MARKINGS AND MARKERS REMOVED DURING CONSTRUCTION, AND FINAL PAVEMENT MARKINGS AND MARKERS ON THE ENTIRE PROJECT.
- STEP 5: OPEN US-HWY-421 TO ITS FINAL TRAFFIC PATTERN (SEE SHEET PMP-2 THRU PMP-3).

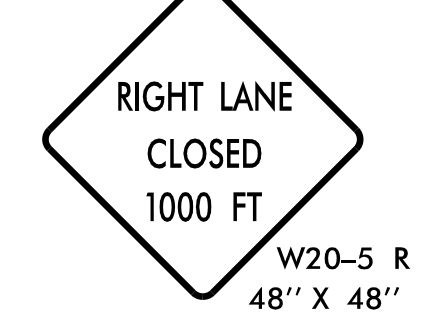
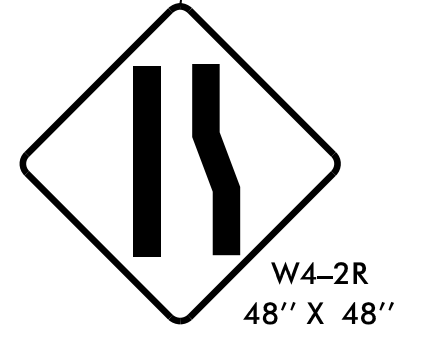
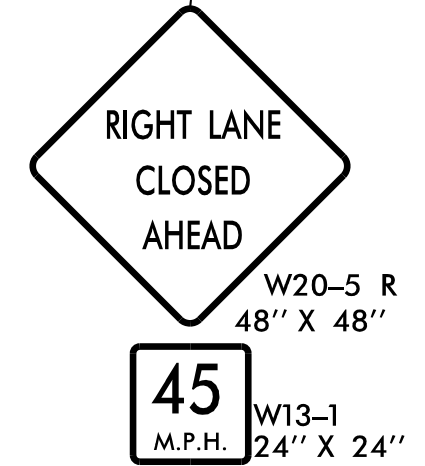
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<p style="font-size: small;">APPROVED <i>Lloyd D. Brown</i> DATE: 7/19/2017</p> <div style="text-align: center;">  <p>SEAL</p> </div>	<div style="text-align: center;">  <p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p> </div>	PHASING
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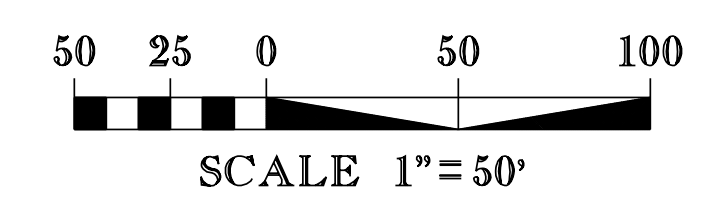


MESSAGE NO. 1 RIGHT LANE CLOSED	MESSAGE NO. 2 MERGE LEFT
CHANGEABLE MESSAGE SIGN	



MESSAGE NO. 1 EM TRUCK RAMP OPEN	MESSAGE NO. 2 2200 FT AHEAD
CHANGEABLE MESSAGE SIGN	

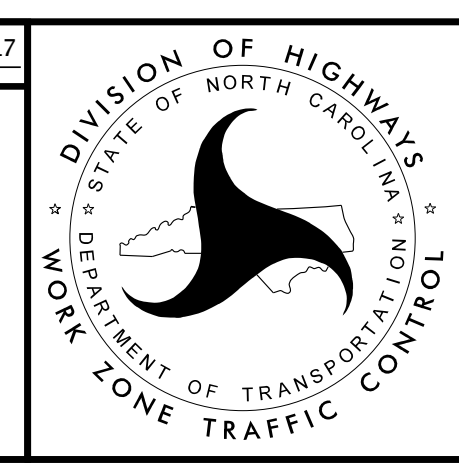
- WORK AREA
- MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
- SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED *Lloyd Wayne Brown* DATE: 7/19/2017

DocuSigned by:
Lloyd Wayne Brown

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
LLOYD W. BROWN
20119

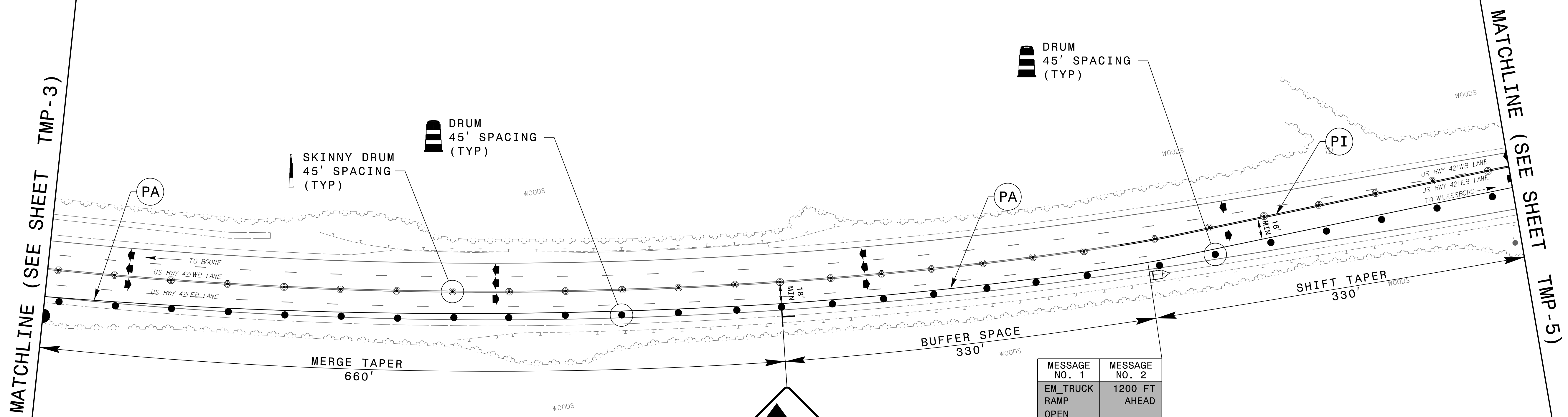


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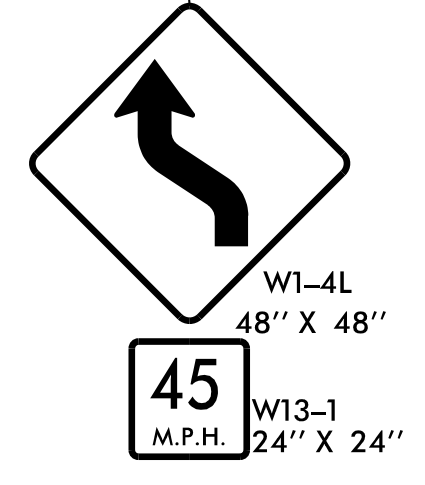
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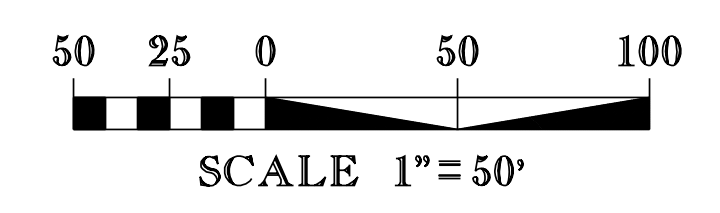
MATCHLINE (SEE SHEET TMP-4)



MESSAGE NO. 1	MESSAGE NO. 2
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CHANGEABLE MESSAGE SIGN	

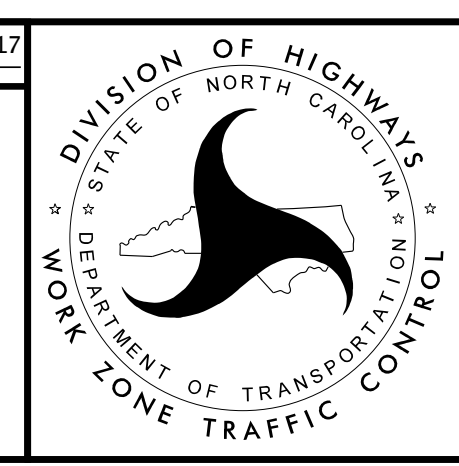


- WORK AREA
- MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
- SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: *Lloyd D. Brown* DATE: 7/19/2017

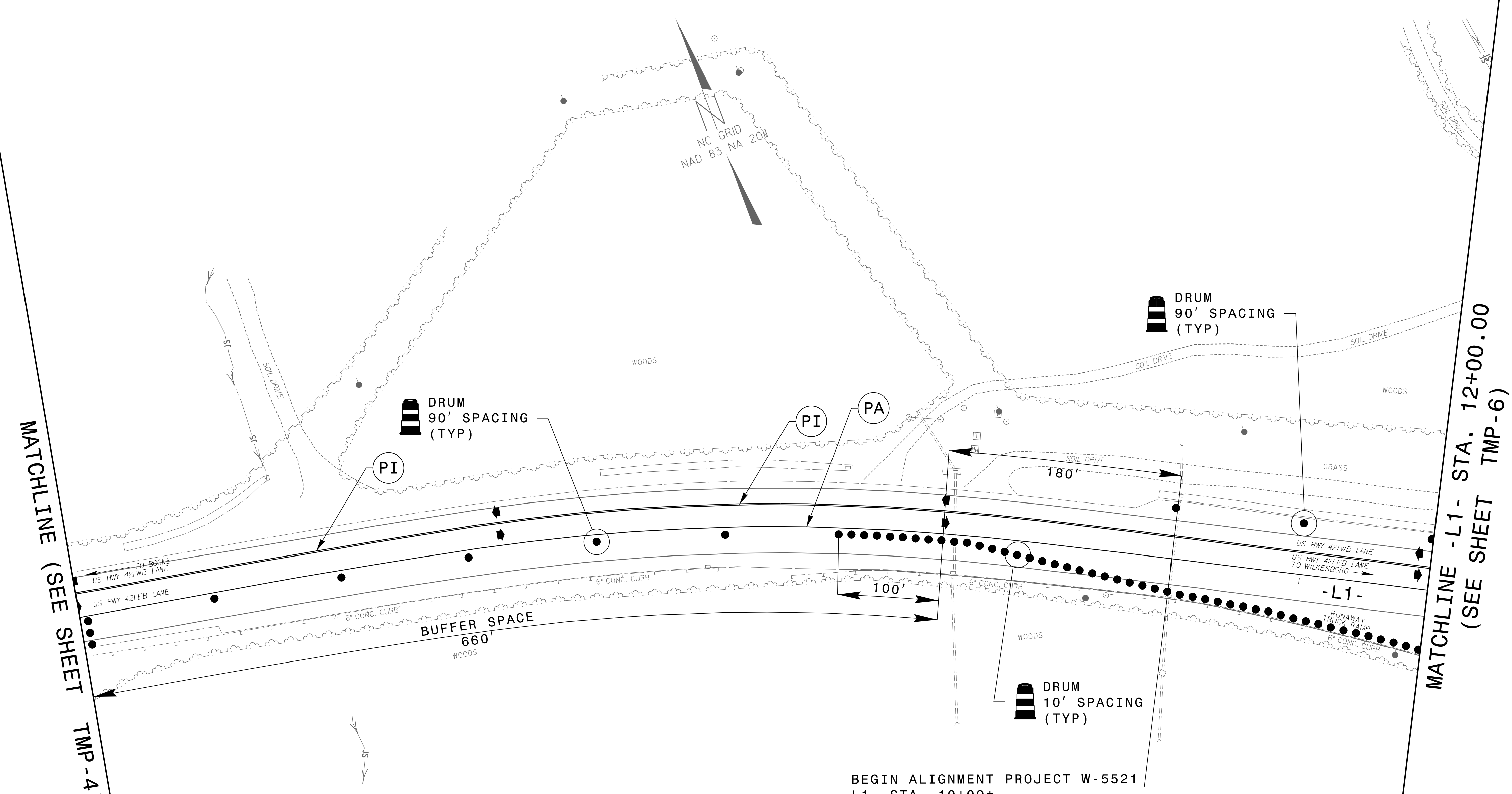
SEAL: NORTH CAROLINA PROFESSIONAL SEAL 2019 ENGINEER LLOYD D. BROWN



PHASE I

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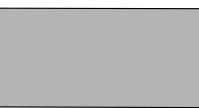
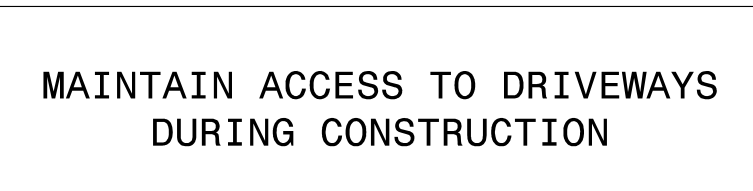
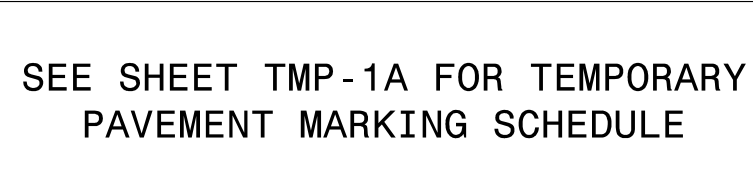
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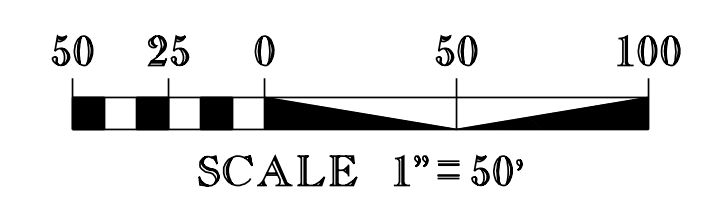


MATCHLINE (SEE SHEET TMP-4)

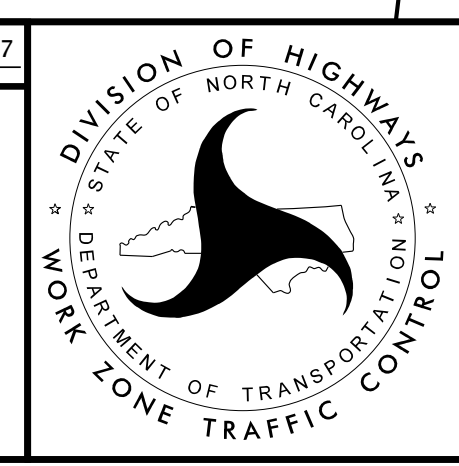
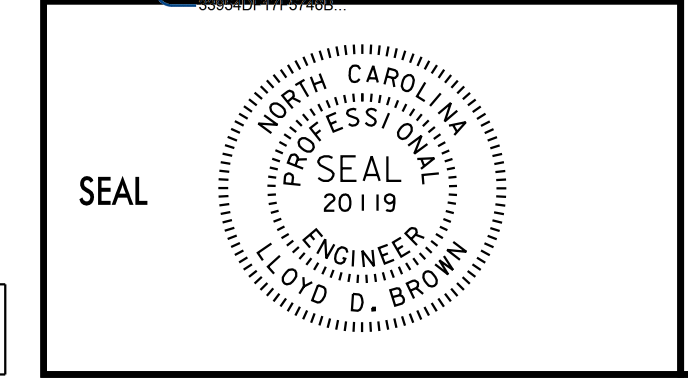
MATCHLINE -L1- STA. 12+00.00 (SEE SHEET TMP-6)

BEGIN ALIGNMENT PROJECT W-5521
-L1- STA. 10+00±

-  WORK AREA
-  MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
-  SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



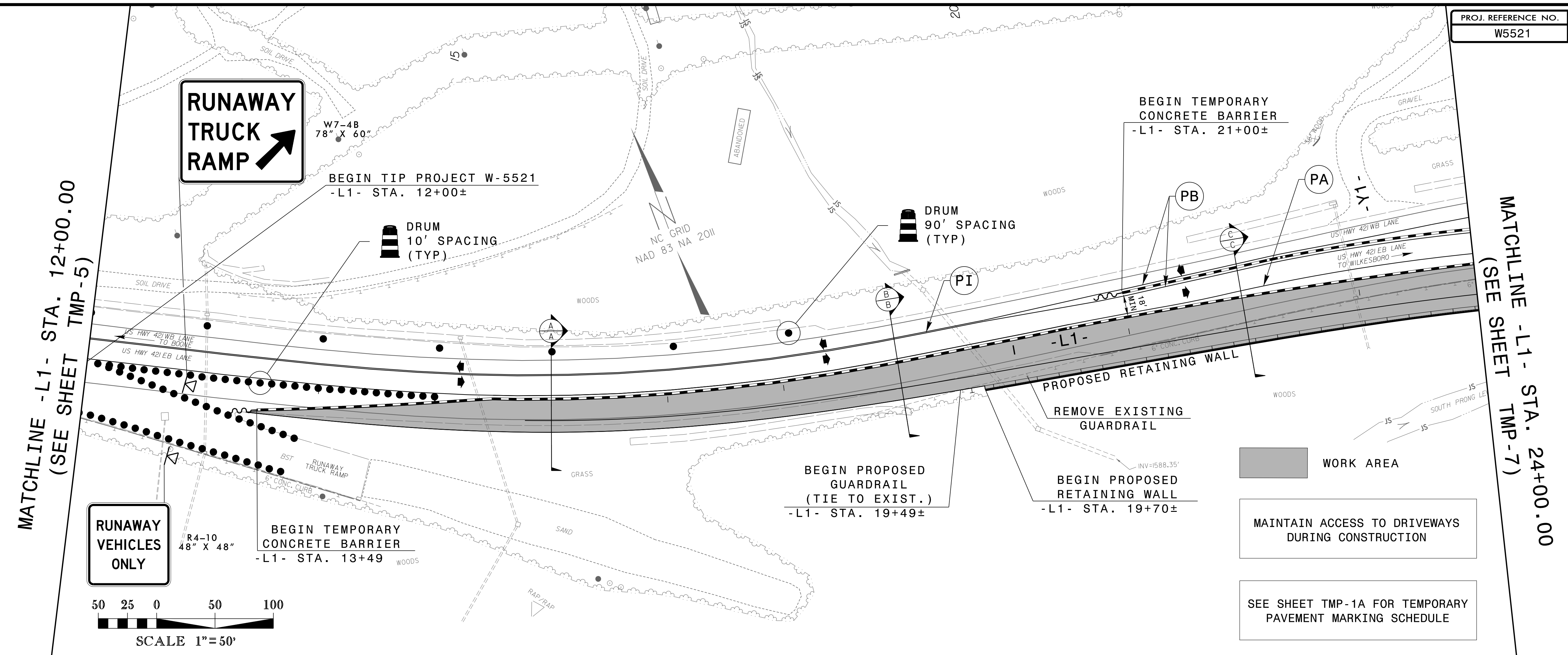
APPROVED *Lloyd Wayne Brown* DATE: 7/19/2017



PHASE I

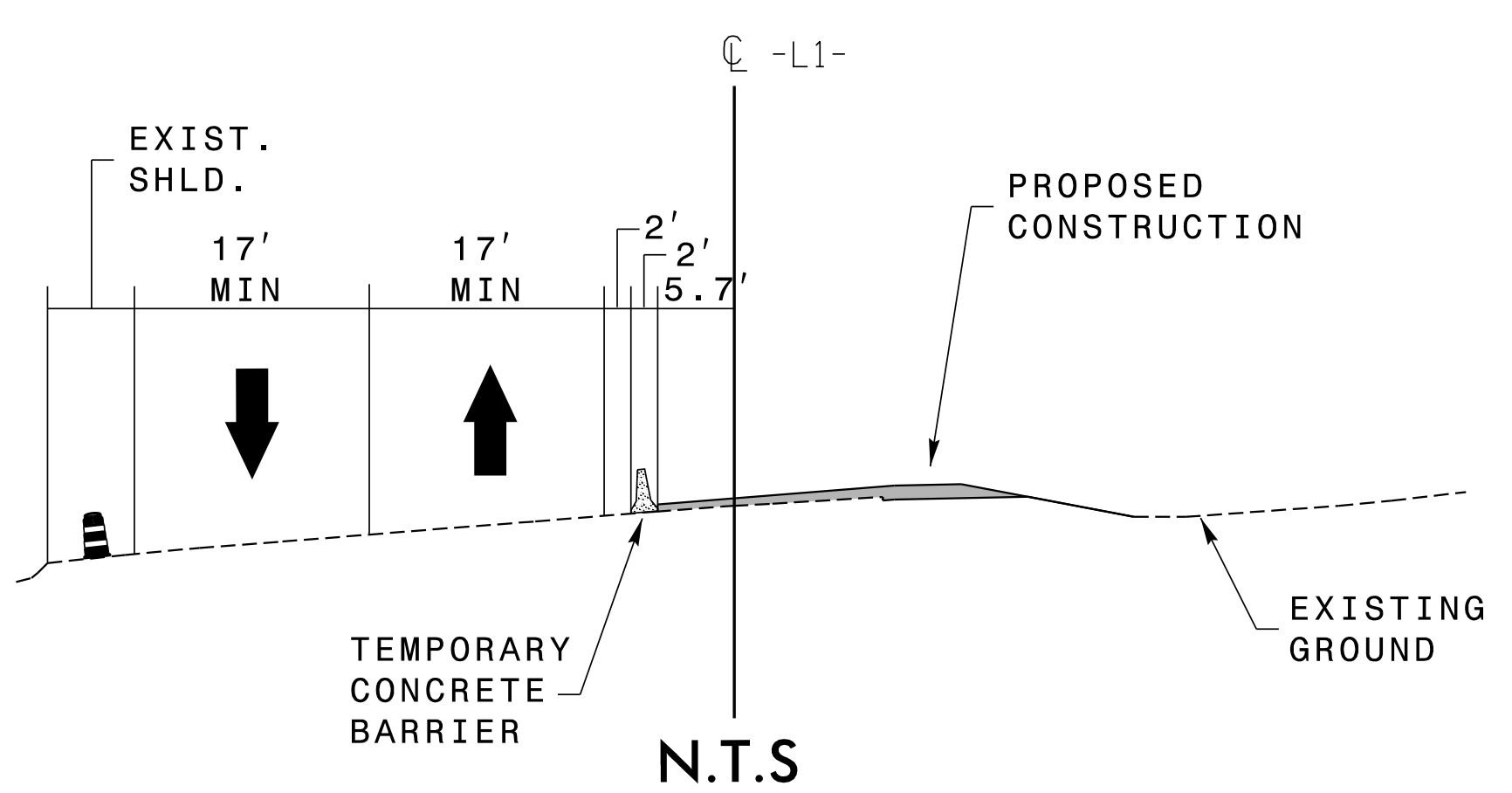
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7/17/2017
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 User: jdcaves



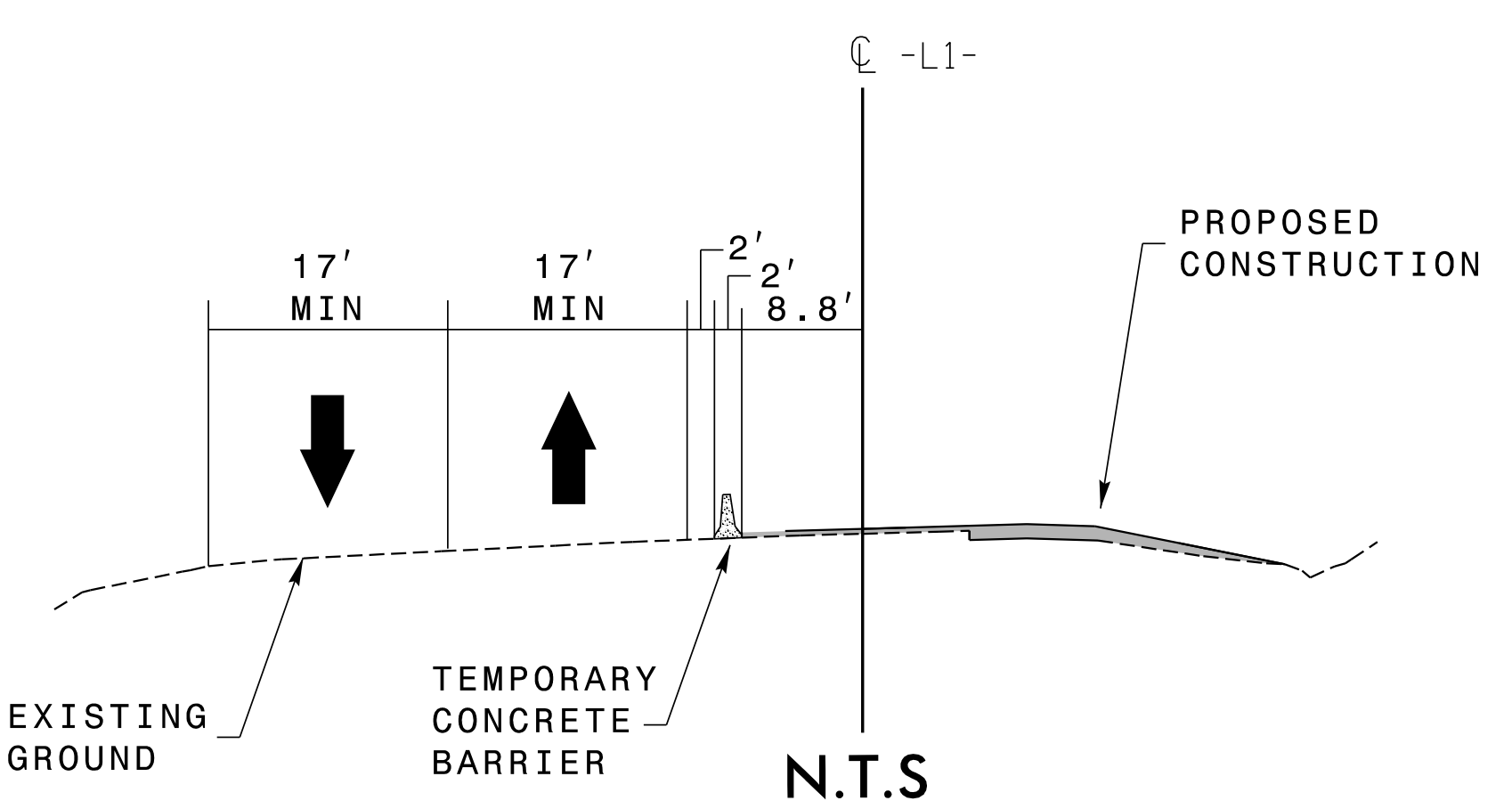
SECTION A - A

-L1- STA 16+00



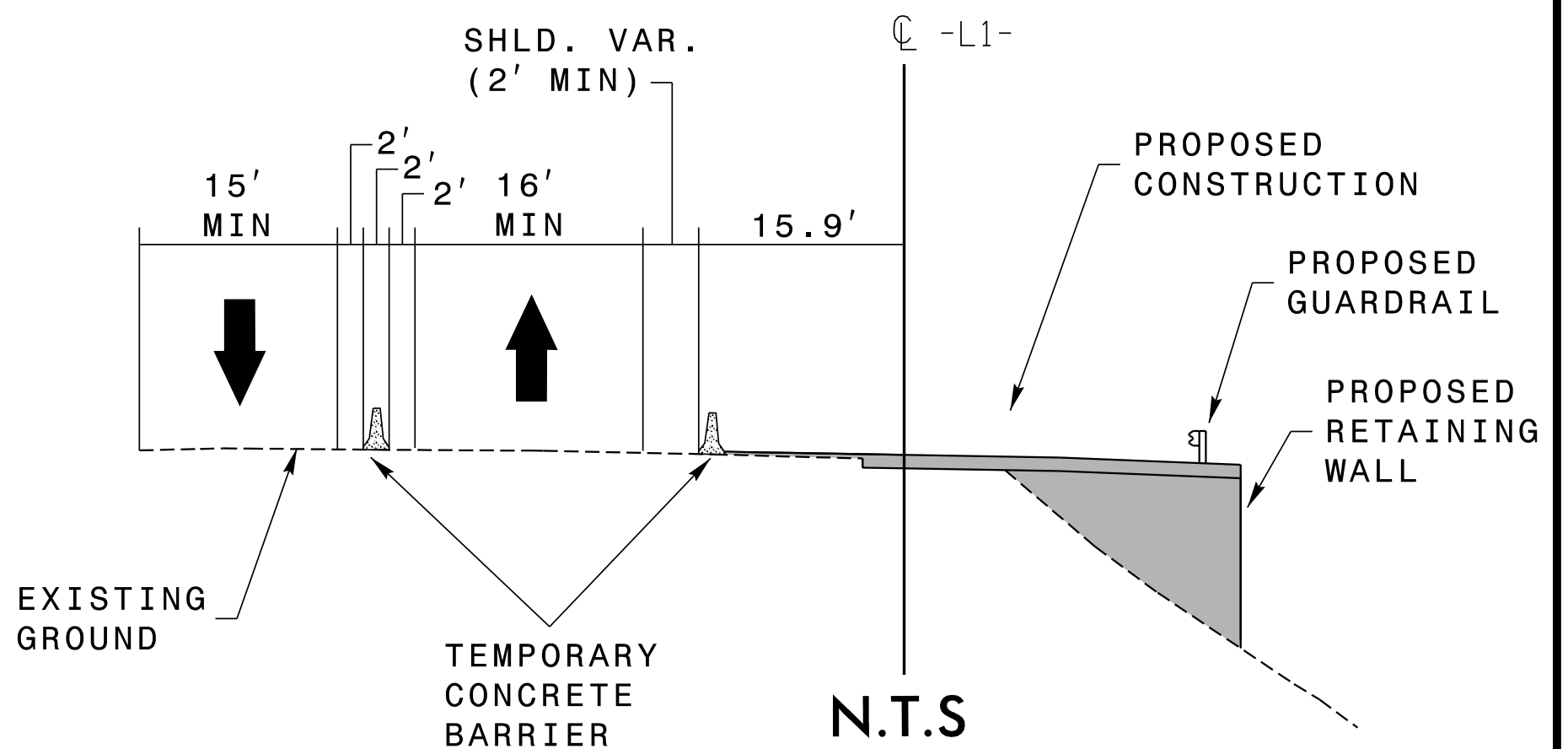
SECTION B - B

-L1- STA 19+00



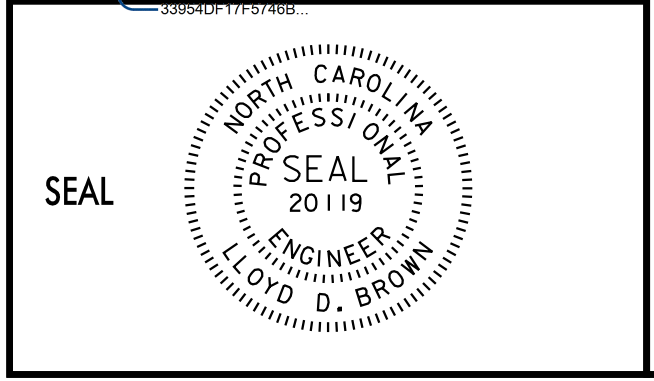
SECTION C - C

-L1- STA 22+00



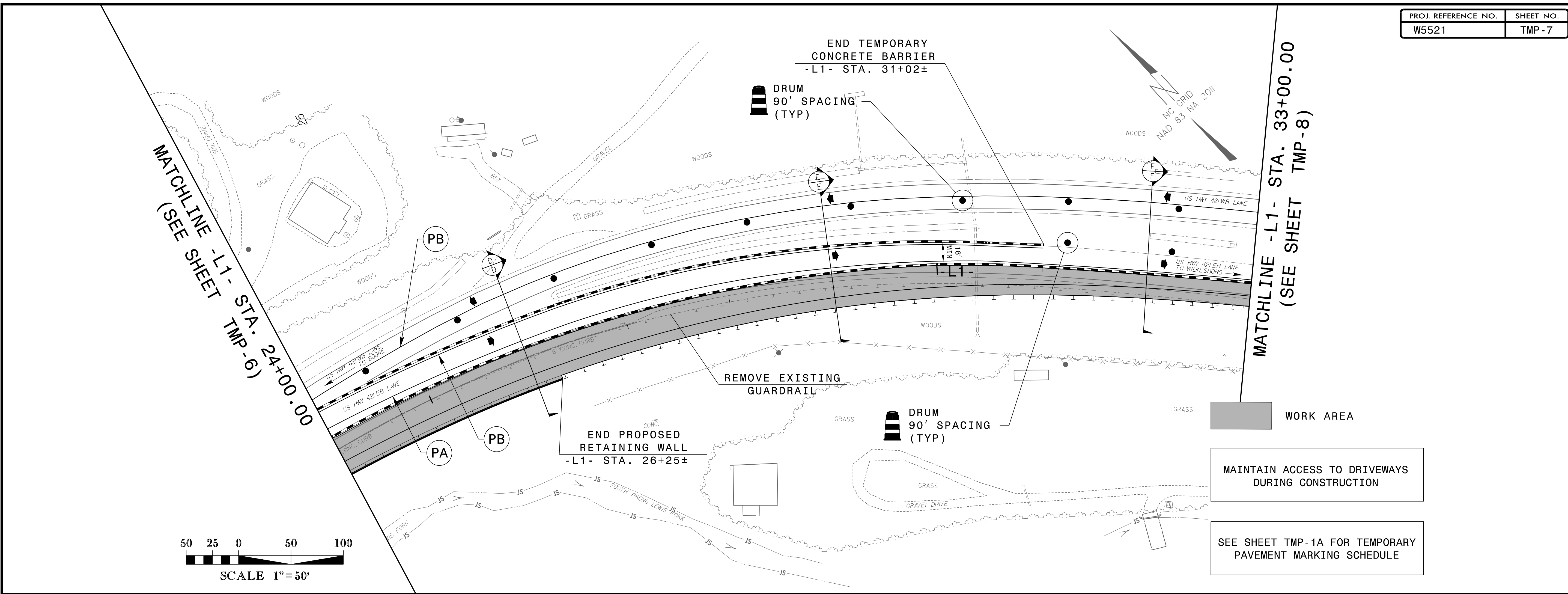
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APPROVED: *Lloyd D. Brown* DATE: 7/19/2017



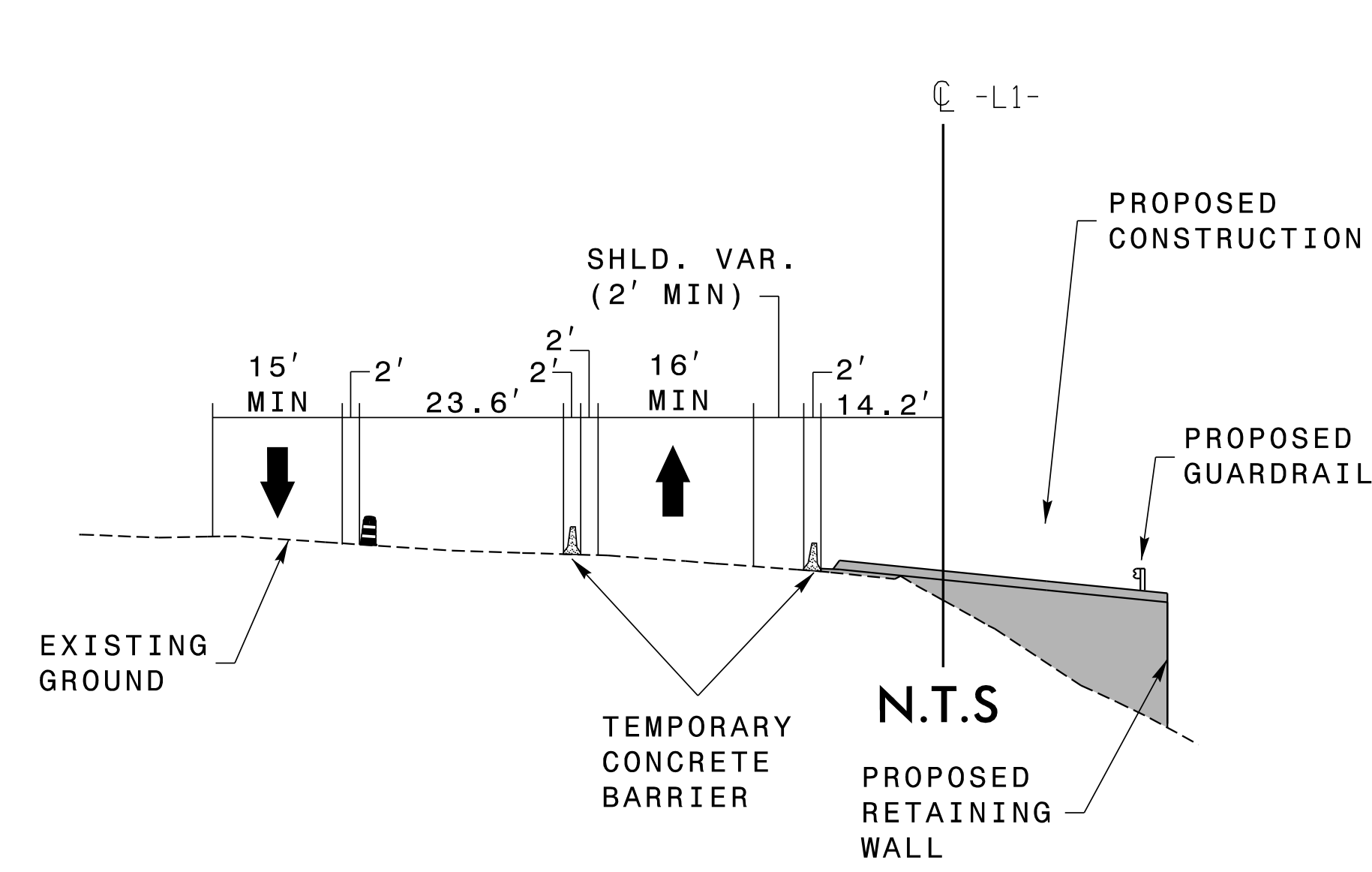
PHASE I

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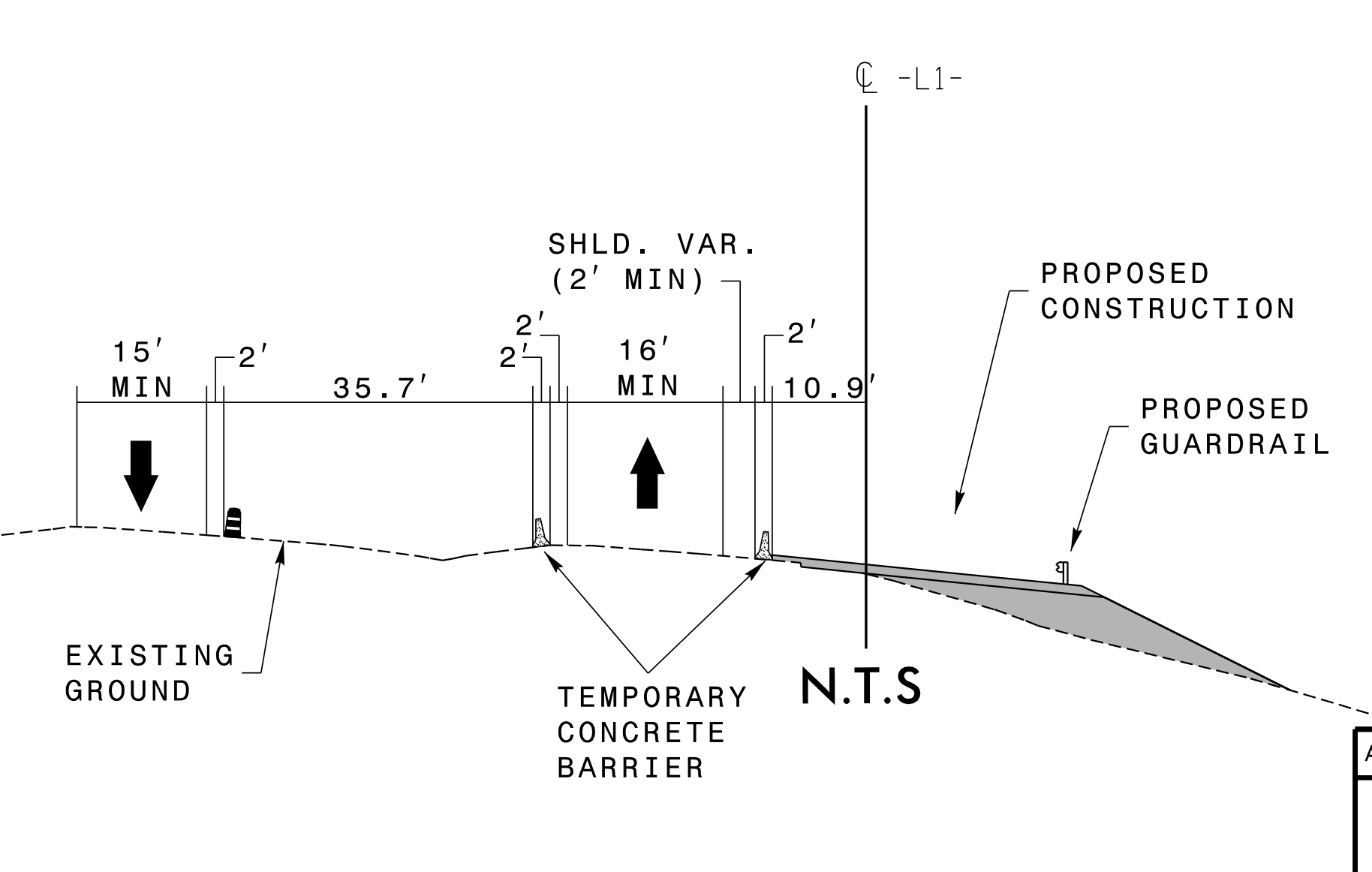
SECTION D - D

-L1- STA 26+00



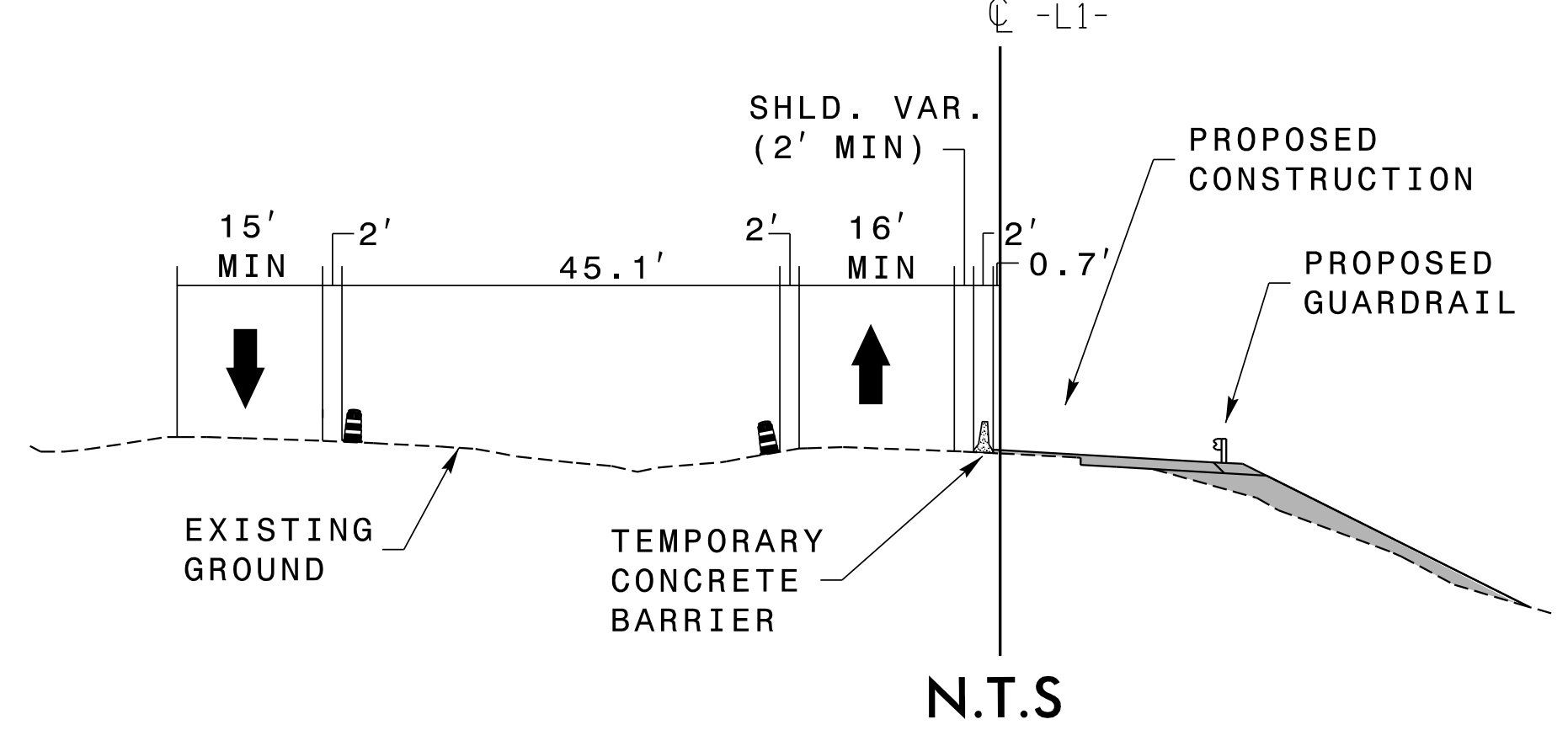
SECTION E - E

-L1- STA 29+00



SECTION F - F

-L1- STA 32+00



7/17/2017
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 User: jldcaves

APPROVED *Lloyd D. Brown* DATE: 7/19/2017

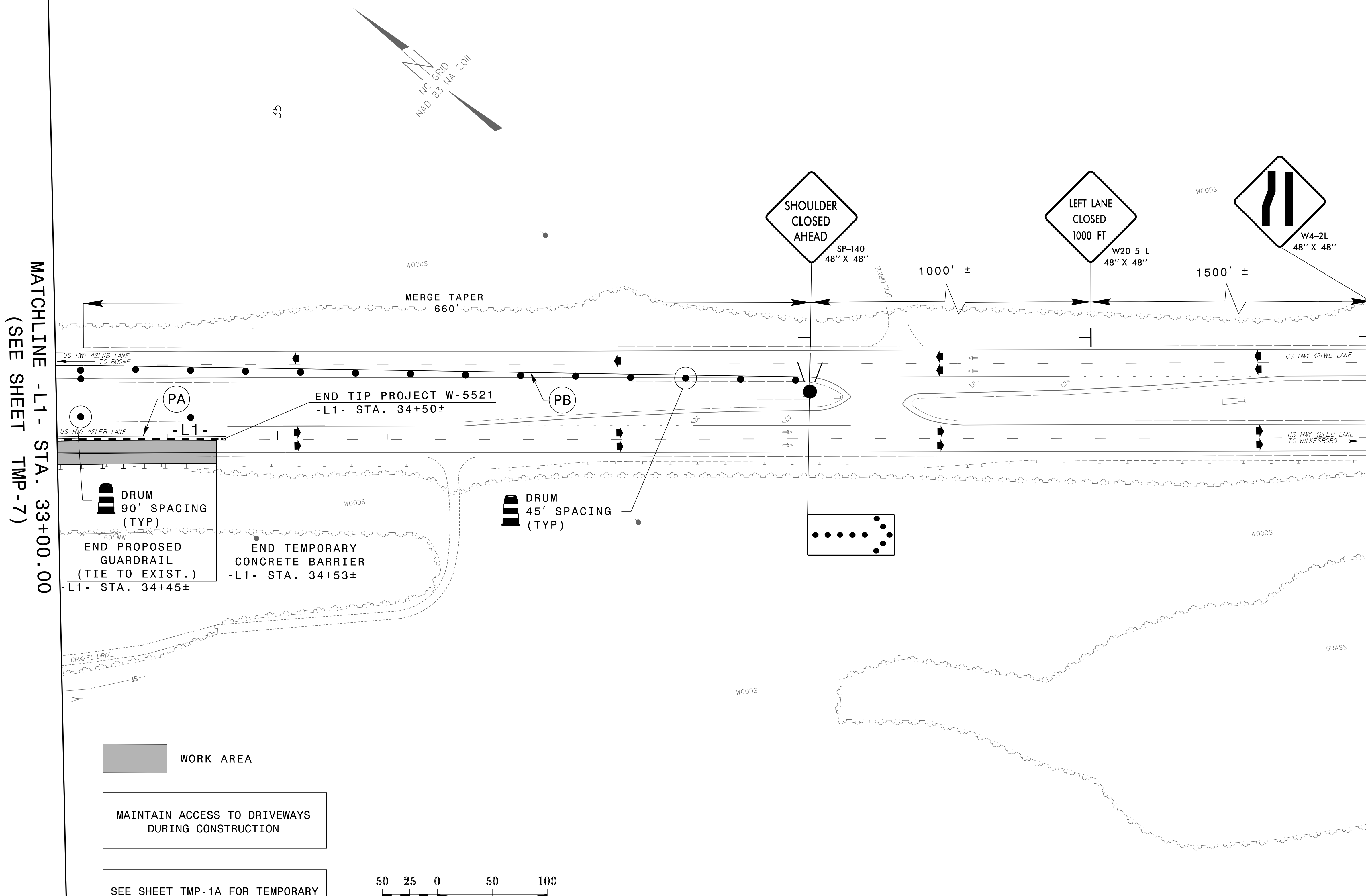
SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20119 LLOYD D. BROWN



PHASE I

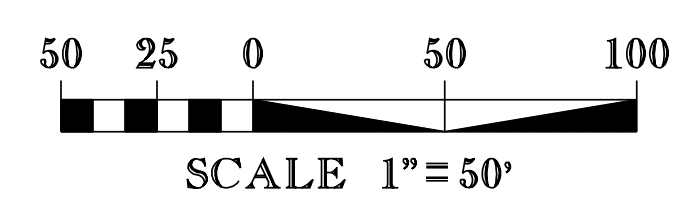
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MATCHLINE -L1- STA. 33+00.00
(SEE SHEET TMP-7)

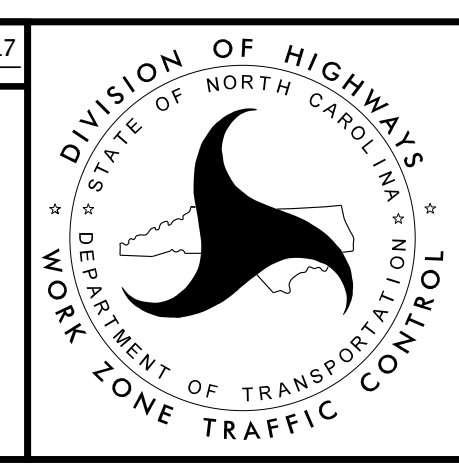
MATCHLINE (SEE SHEET TMP-9)

- WORK AREA
- MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
- SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



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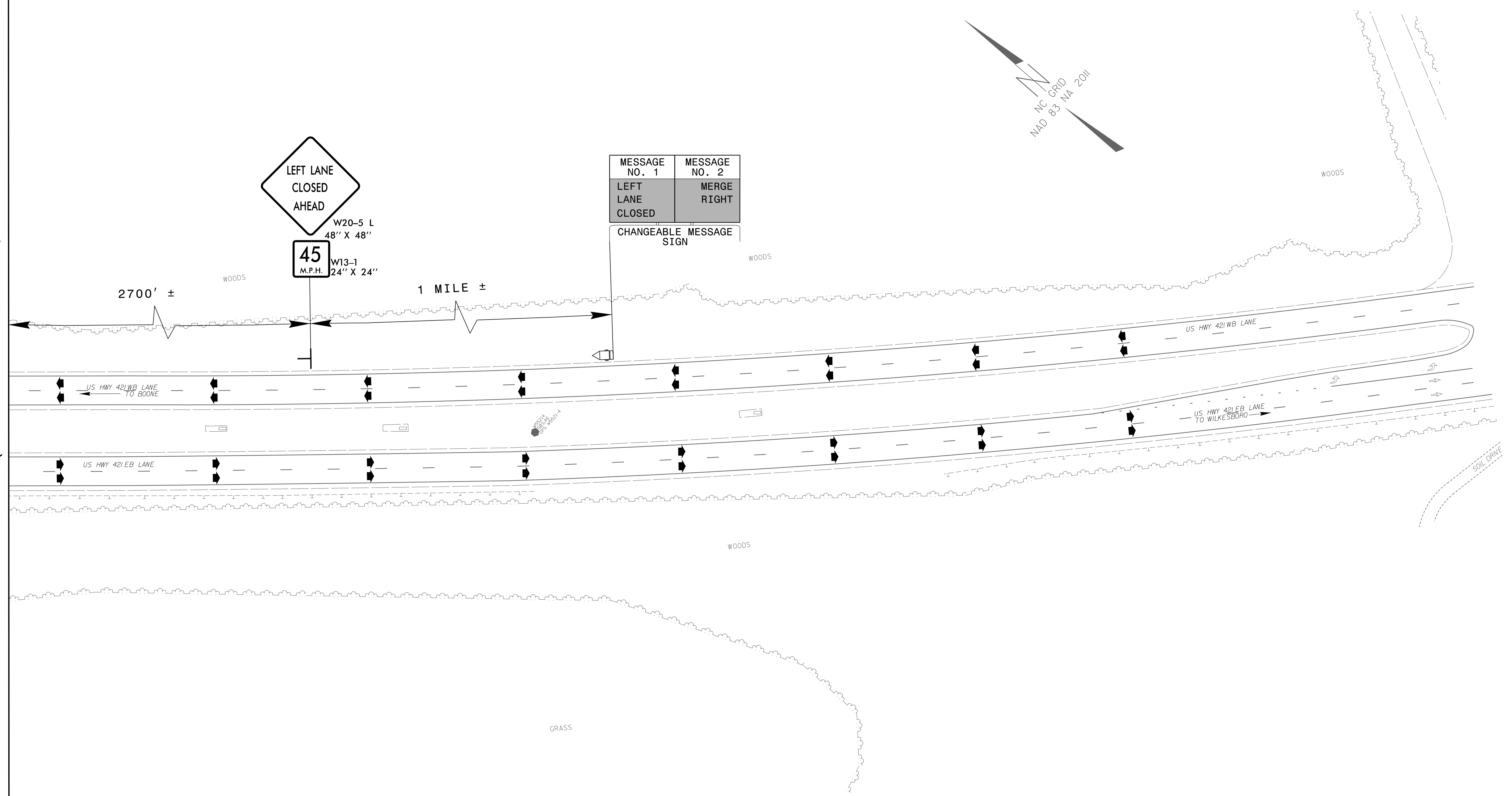


PHASE I

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7/17/2017
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User: jldobvas

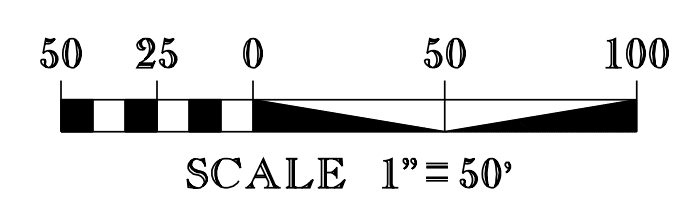
MATCHLINE (SEE SHEET TMP-8)



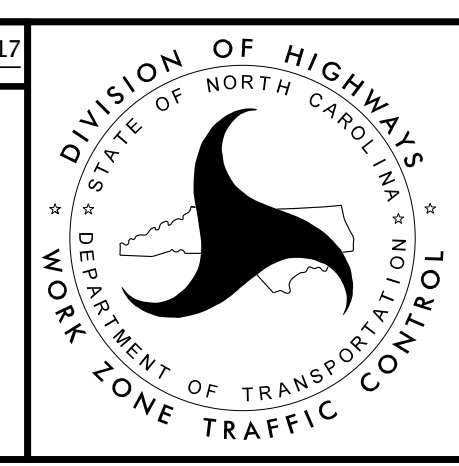
WORK AREA

MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



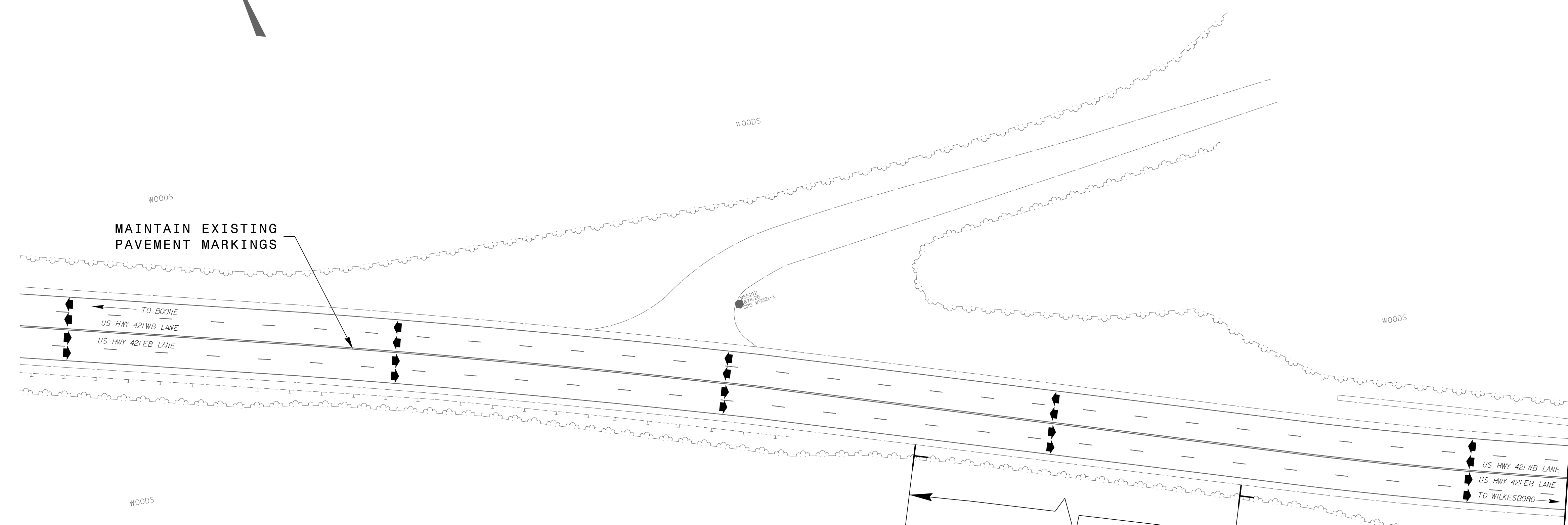
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 SEAL
 NORTH CAROLINA PROFESSIONAL SEAL 2019
 ENGINEER
 LLOYD D. BROWN



PHASE I

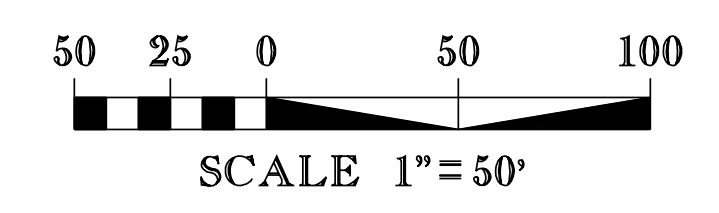
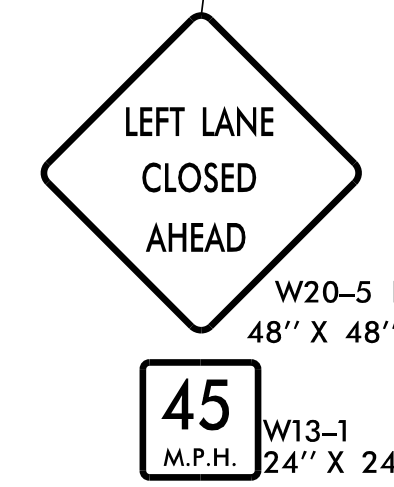
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7/17/2017
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User: jldaves



MAINTAIN EXISTING
PAVEMENT MARKINGS

MESSAGE NO. 1	MESSAGE NO. 2
LEFT LANE CLOSED	MERGE RIGHT
CHANGEABLE MESSAGE SIGN	



- WORK AREA
- MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
- SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

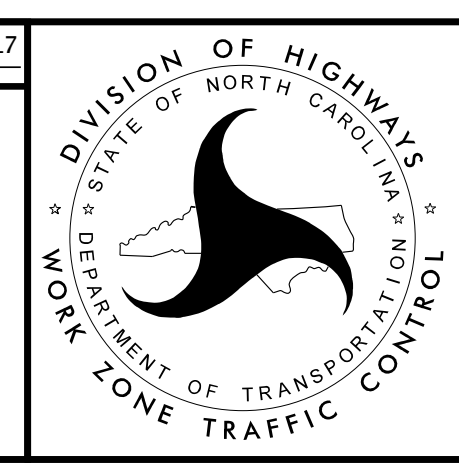
MATCHLINE (SEE SHEET TMP-11)

7/17/2017
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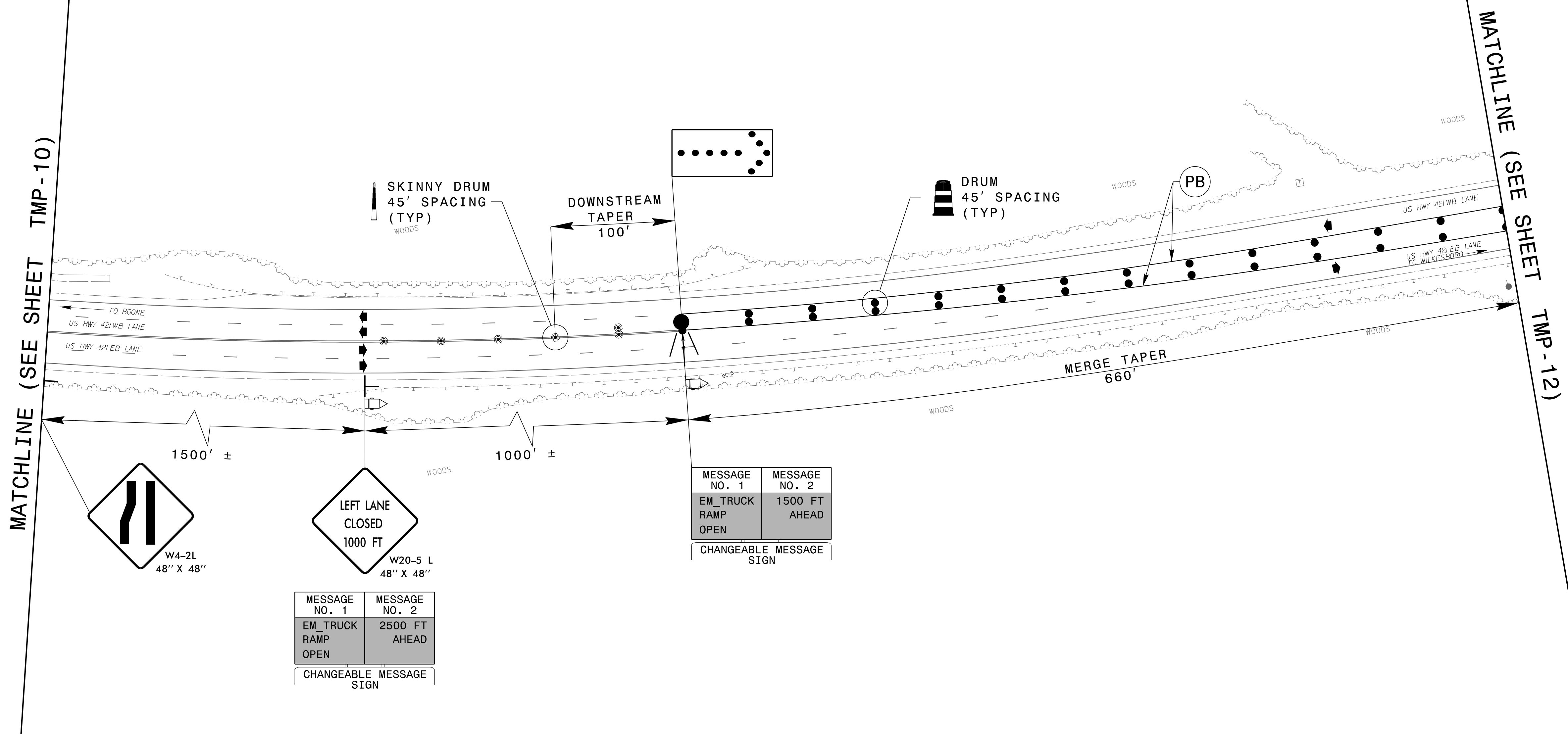
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ENGINEER
LLOYD D. BROWN
20119

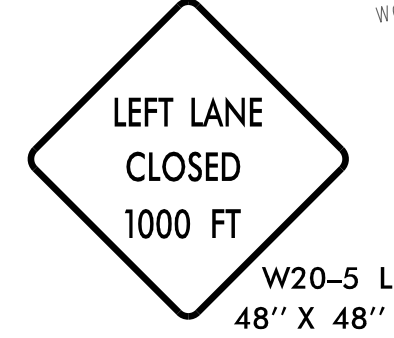
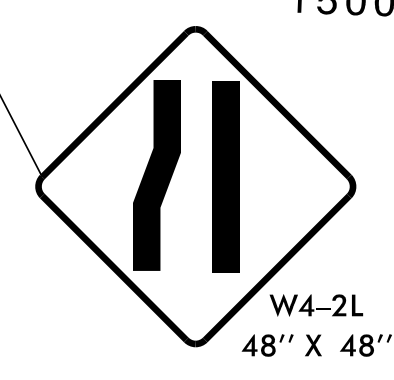


PHASE II



MATCHLINE (SEE SHEET TMP-10)

MATCHLINE (SEE SHEET TMP-12)



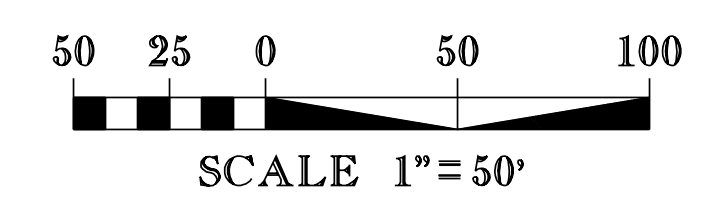
MESSAGE NO. 1	MESSAGE NO. 2
EM_TRUCK RAMP OPEN	1500 FT AHEAD
CHANGEABLE MESSAGE SIGN	

MESSAGE NO. 1	MESSAGE NO. 2
EM_TRUCK RAMP OPEN	2500 FT AHEAD
CHANGEABLE MESSAGE SIGN	

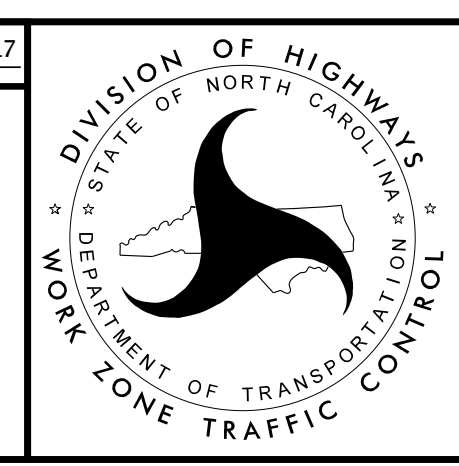
WORK AREA

MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



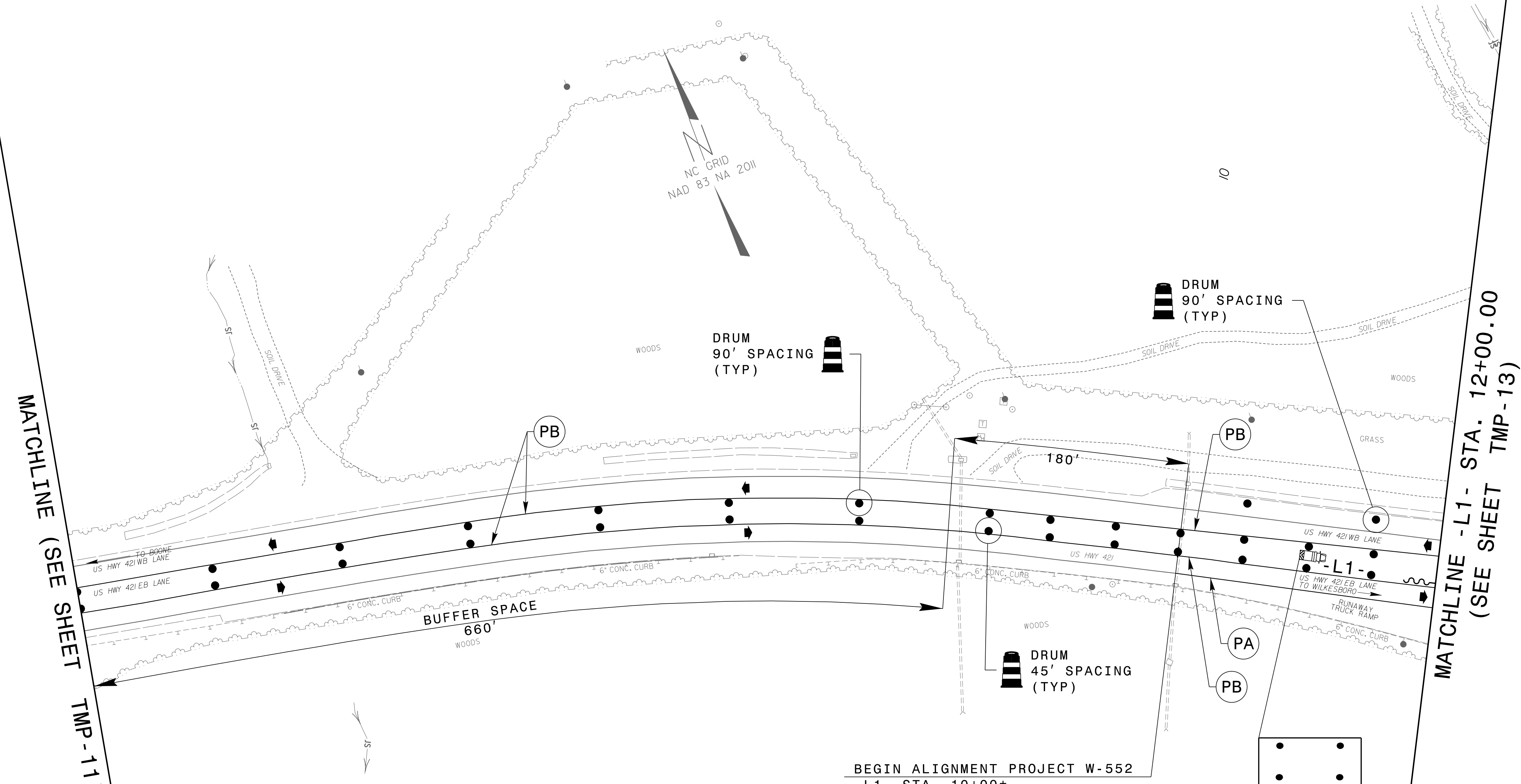
APPROVED: *Lloyd D. Brown* DATE: 7/19/2017




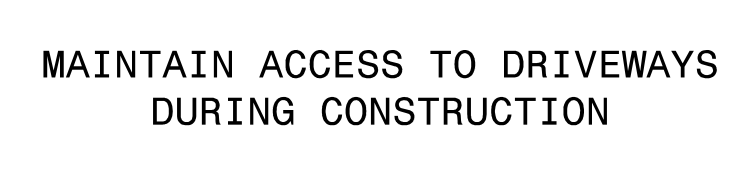
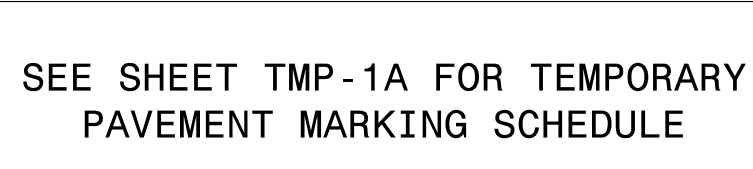
PHASE II

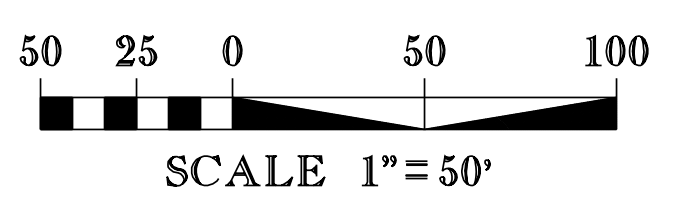
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NOTE: POSITION THE TMA TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER.

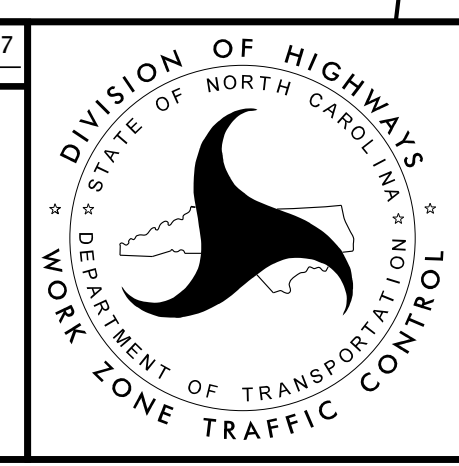
-  WORK AREA
-  MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
-  SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED *Lloyd Wayne Brown* DATE: 7/19/2017

DocuSigned by:
Lloyd Wayne Brown

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NORTH CAROLINA
PROFESSIONAL
ENGINEER
20119
LLOYD D. BROWN

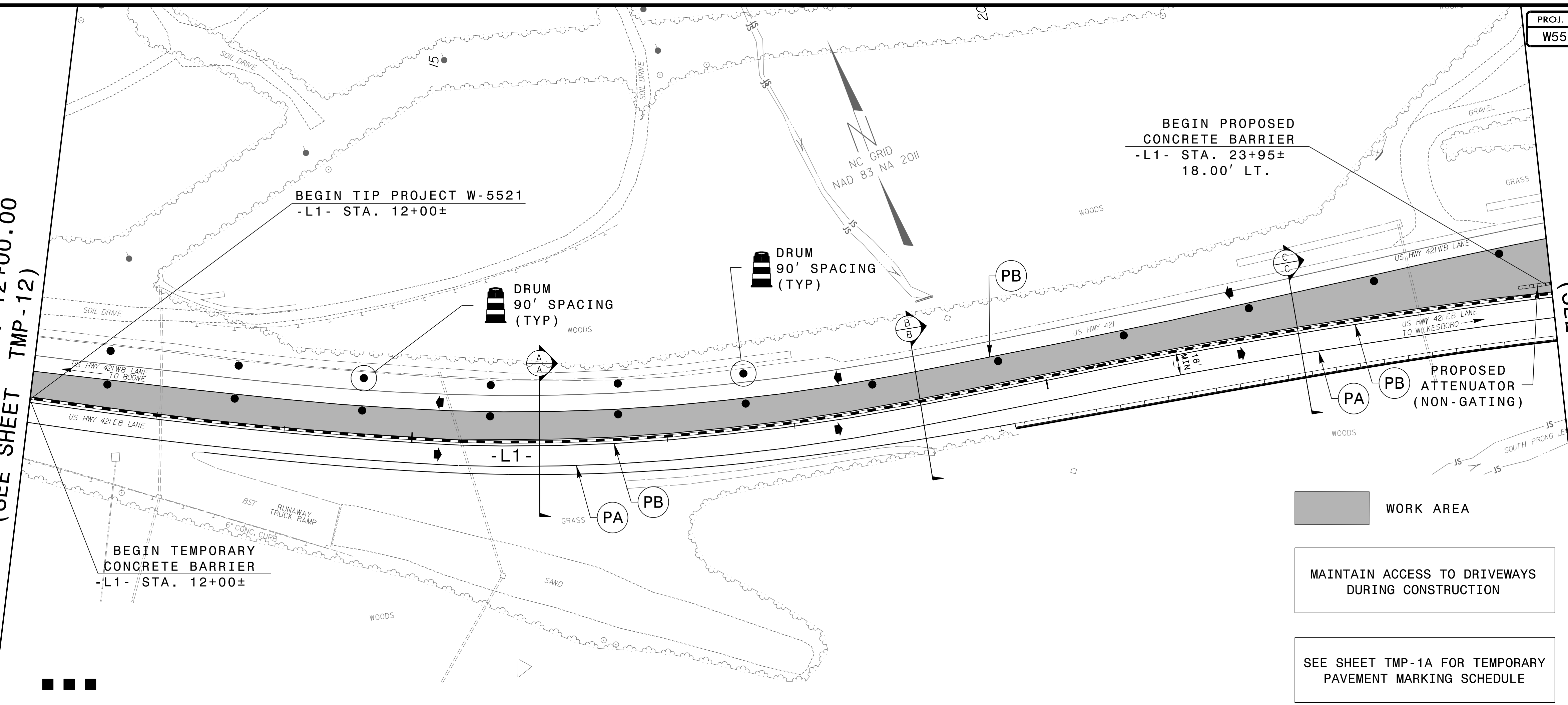


PHASE II

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User: jldcaves

MATCHLINE -L1- STA. 12+00.00
(SEE SHEET TMP-12)

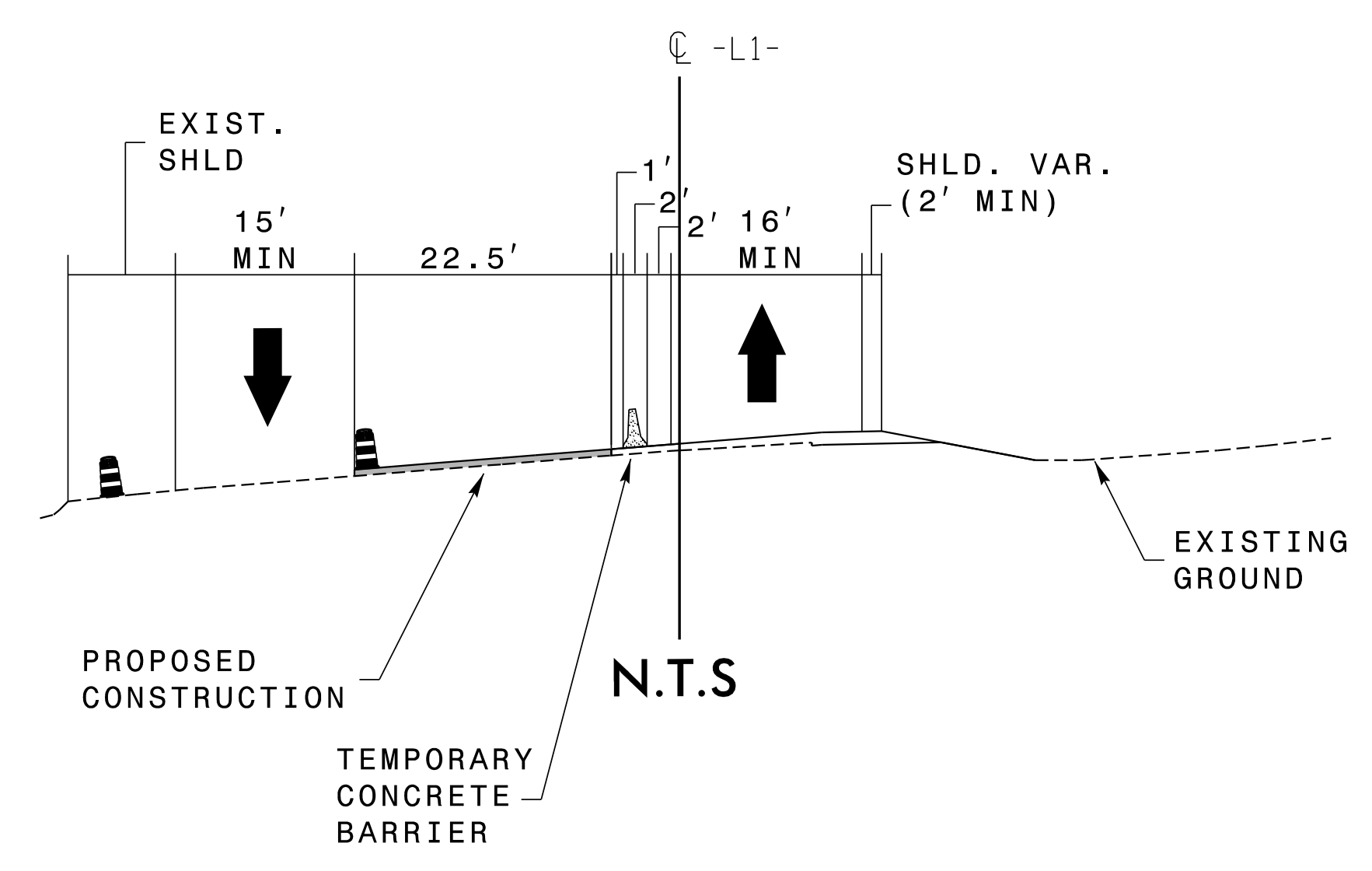


MATCHLINE -L1- STA. 24+00.00
(SEE SHEET TMP-14)

- WORK AREA
- MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
- SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

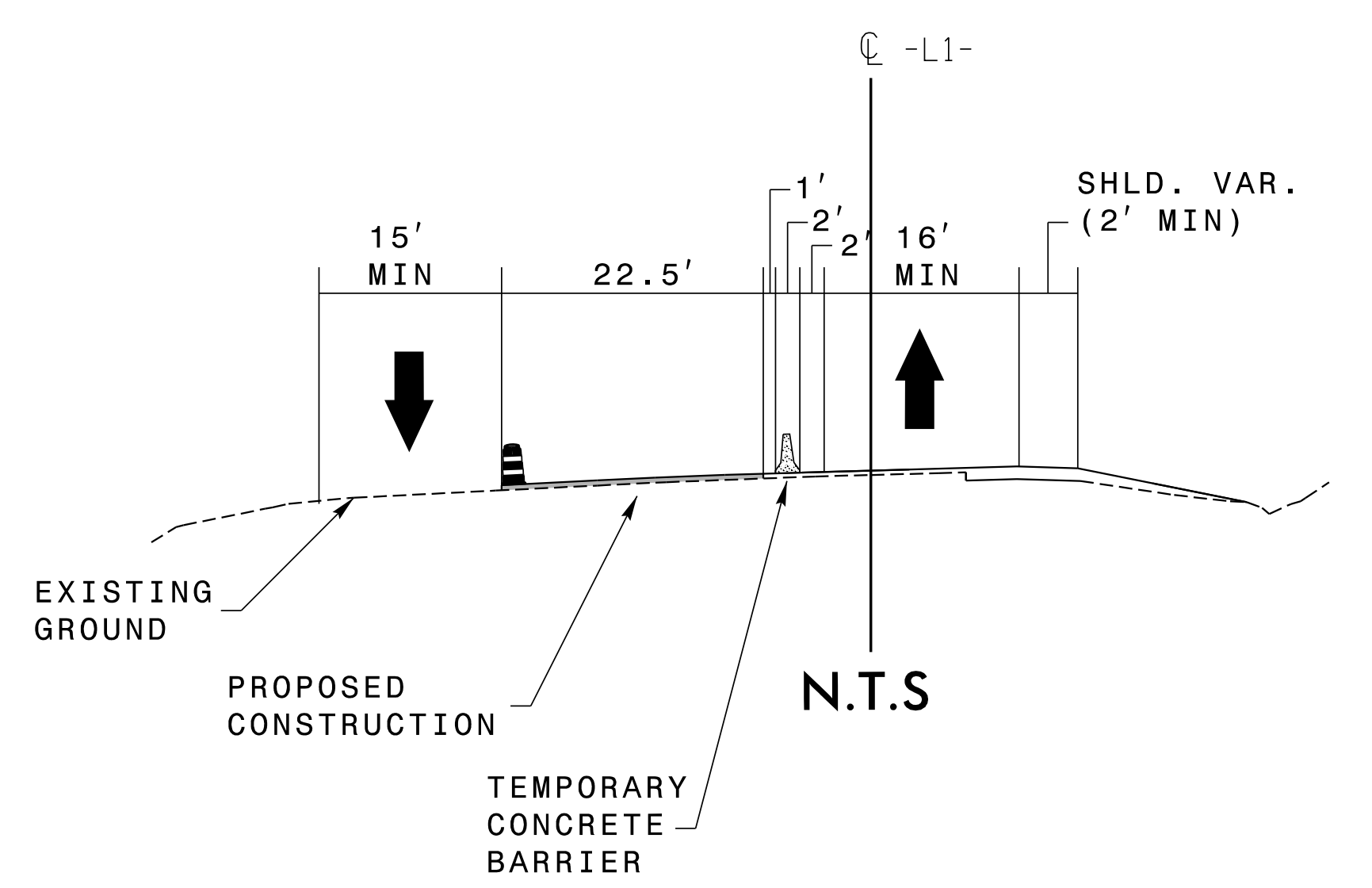
SECTION A - A

-L1- STA 16+00



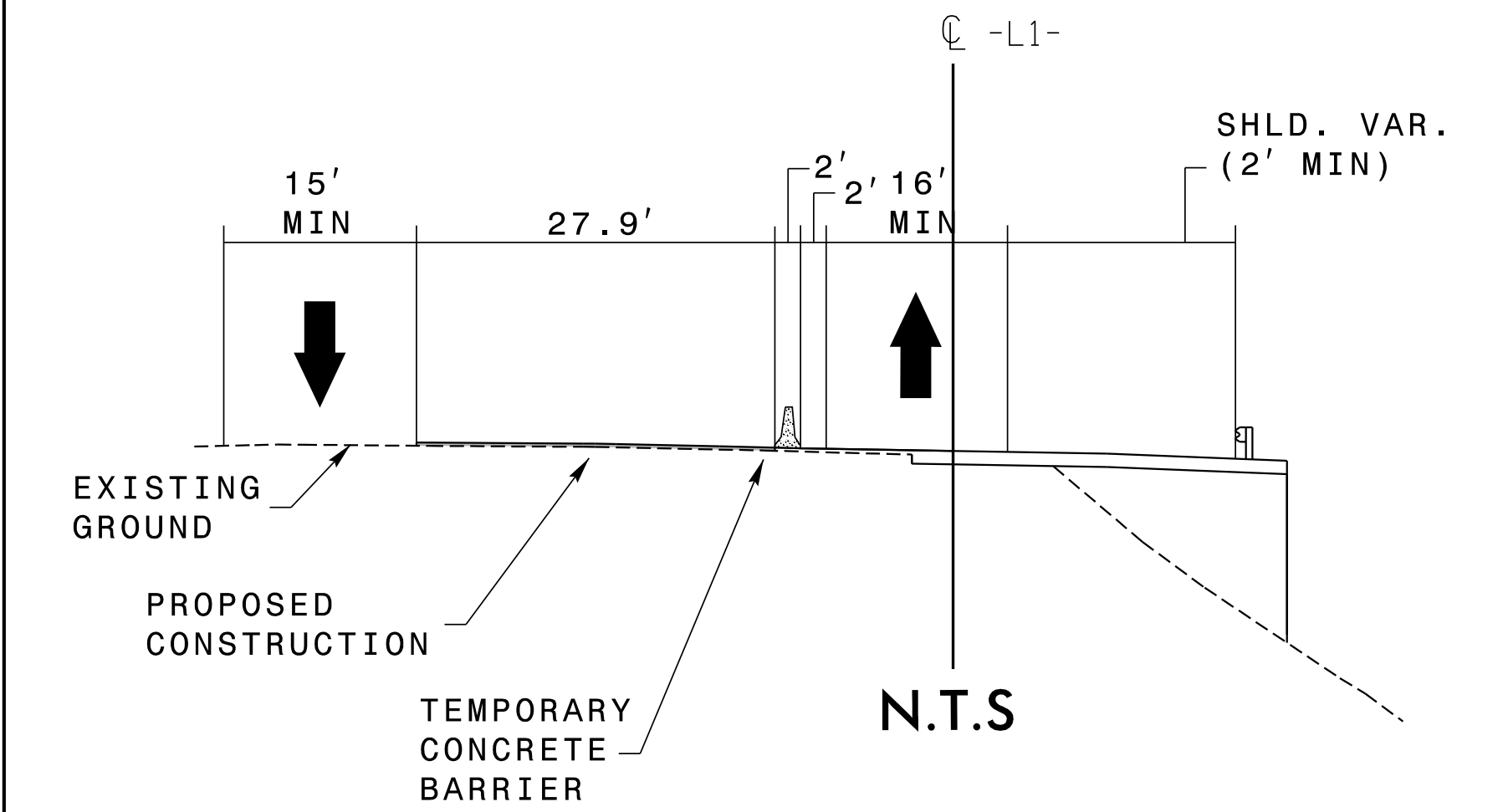
SECTION B - B

-L1- STA 19+00



SECTION C - C

-L1- STA 22+00



7/17/2017
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APPROVED *Lloyd D. Brown* DATE: 7/19/2017

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20119 LLOYD D. BROWN

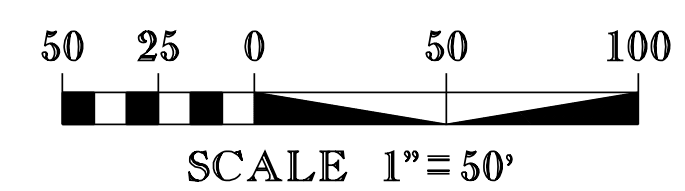
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

PHASE II

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UNLESS ALL SIGNATURES COMPLETED

MATCHLINE -L1- STA. 24+00.00
(SEE SHEET TMP-13)

MATCHLINE -L1- STA. 33+00.00
(SEE SHEET TMP-15)



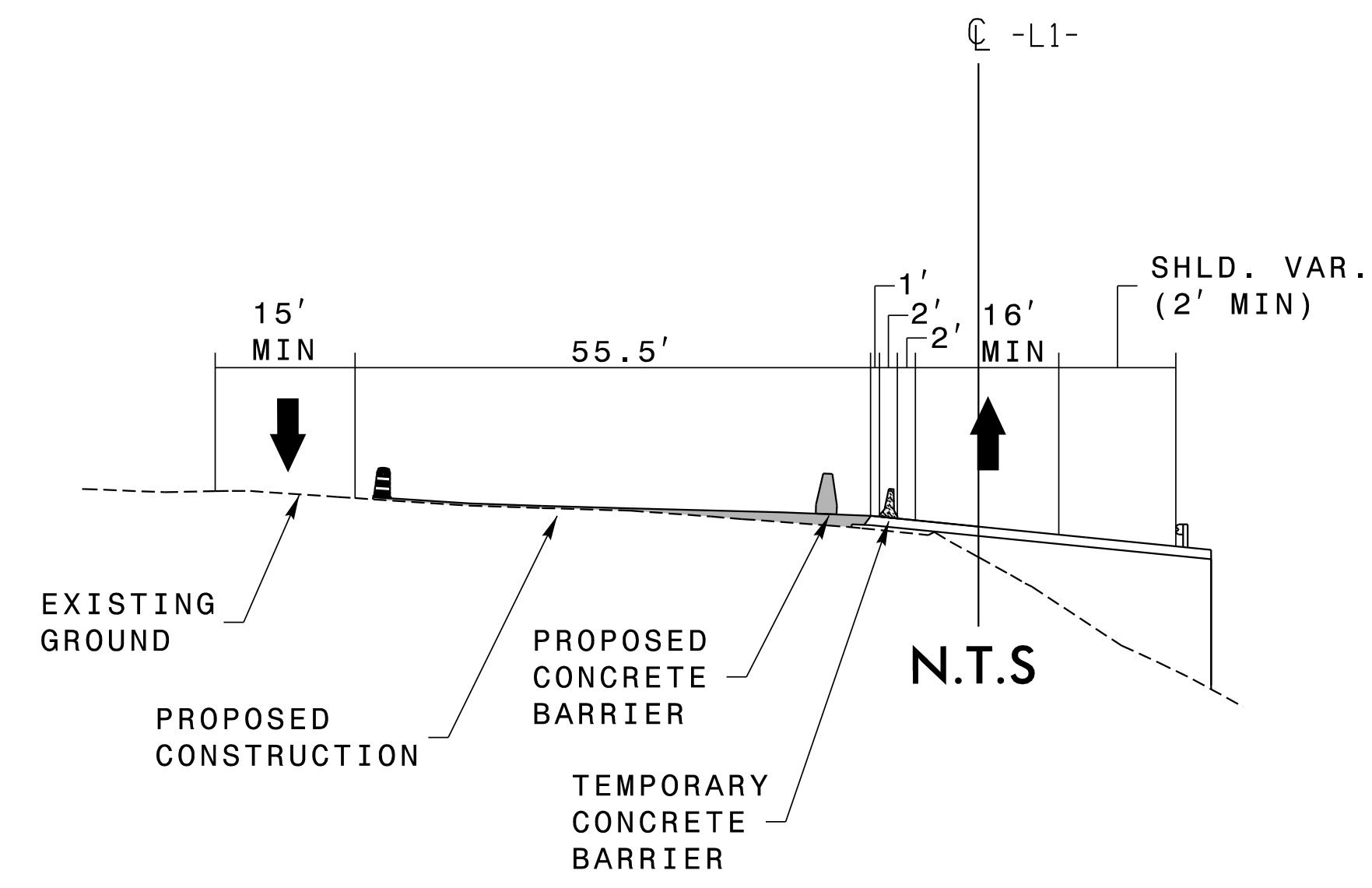
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(DENOTES PAVEMENT REMOVAL)

- WORK AREA
- MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
- SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

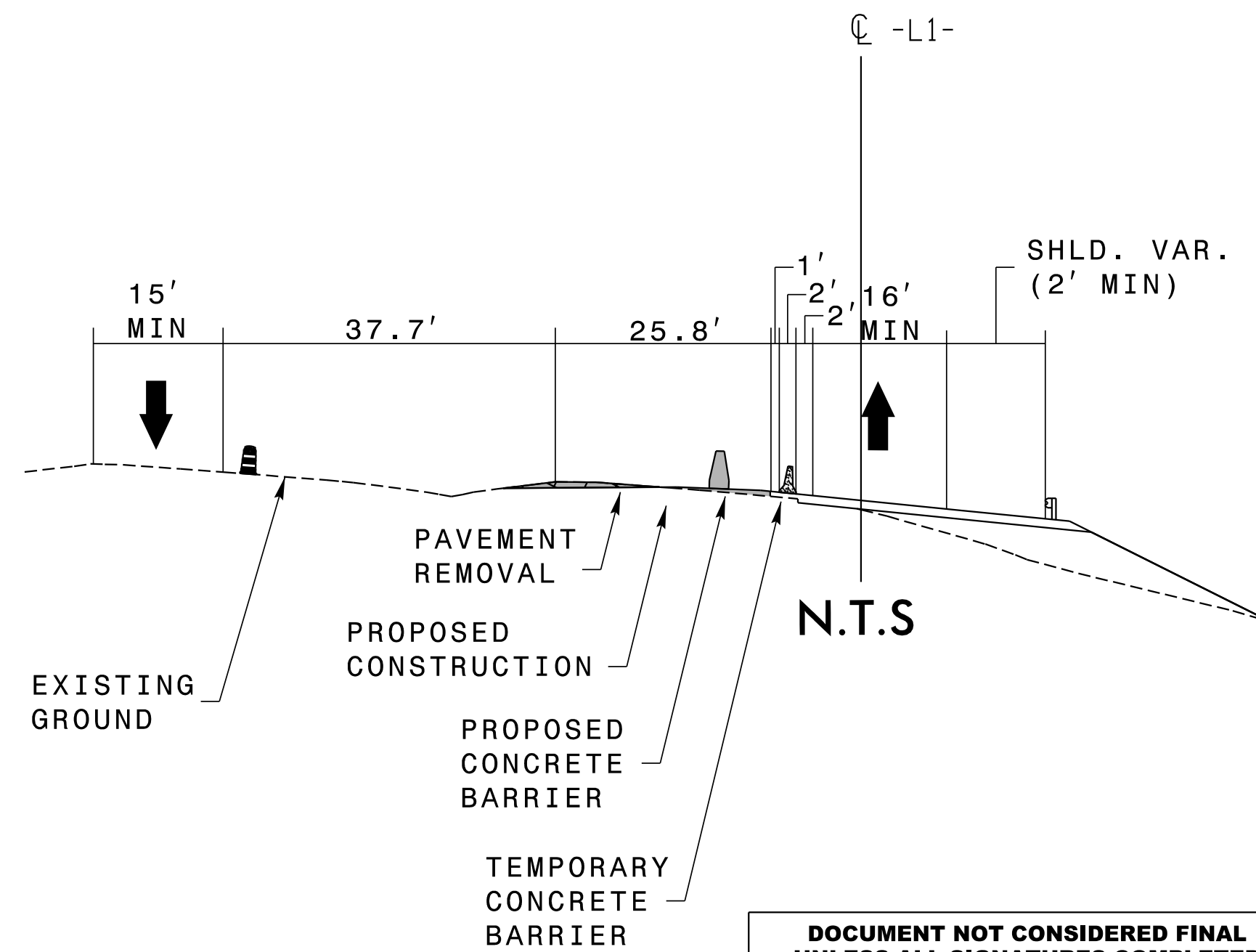
SECTION D - D

-L1- STA 26+00



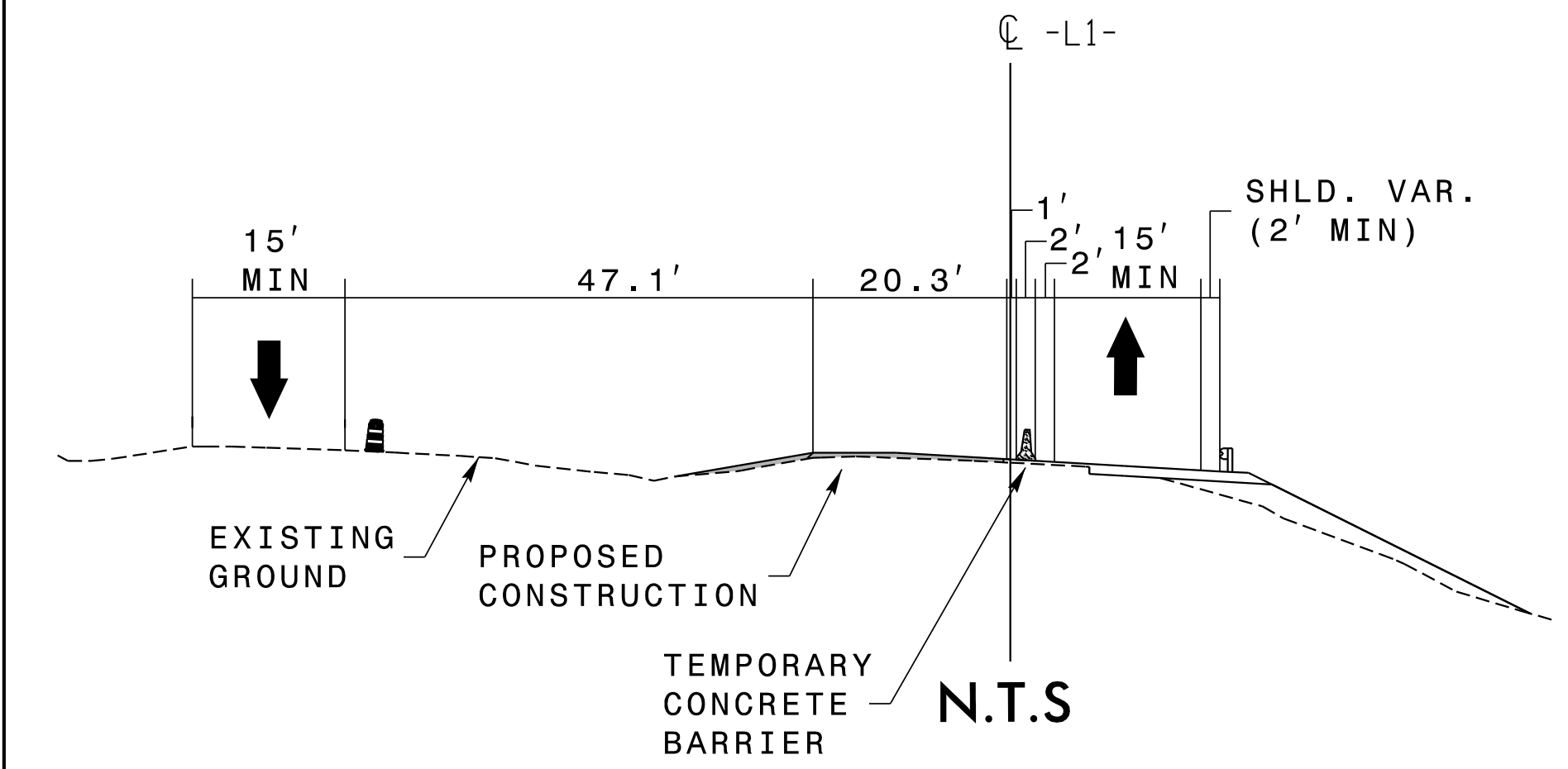
SECTION E - E

-L1- STA 29+00



SECTION F - F

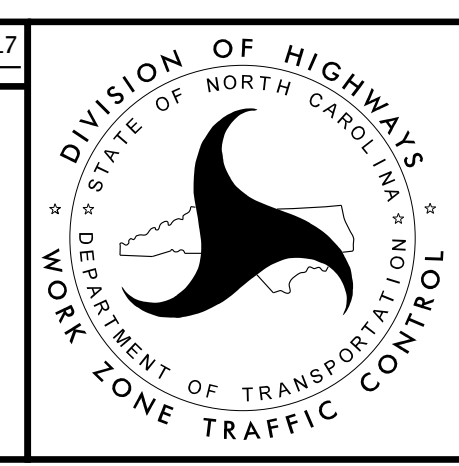
-L1- STA 32+00



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APPROVED *Lloyd D. Brown* DATE: 7/19/2017

SEAL

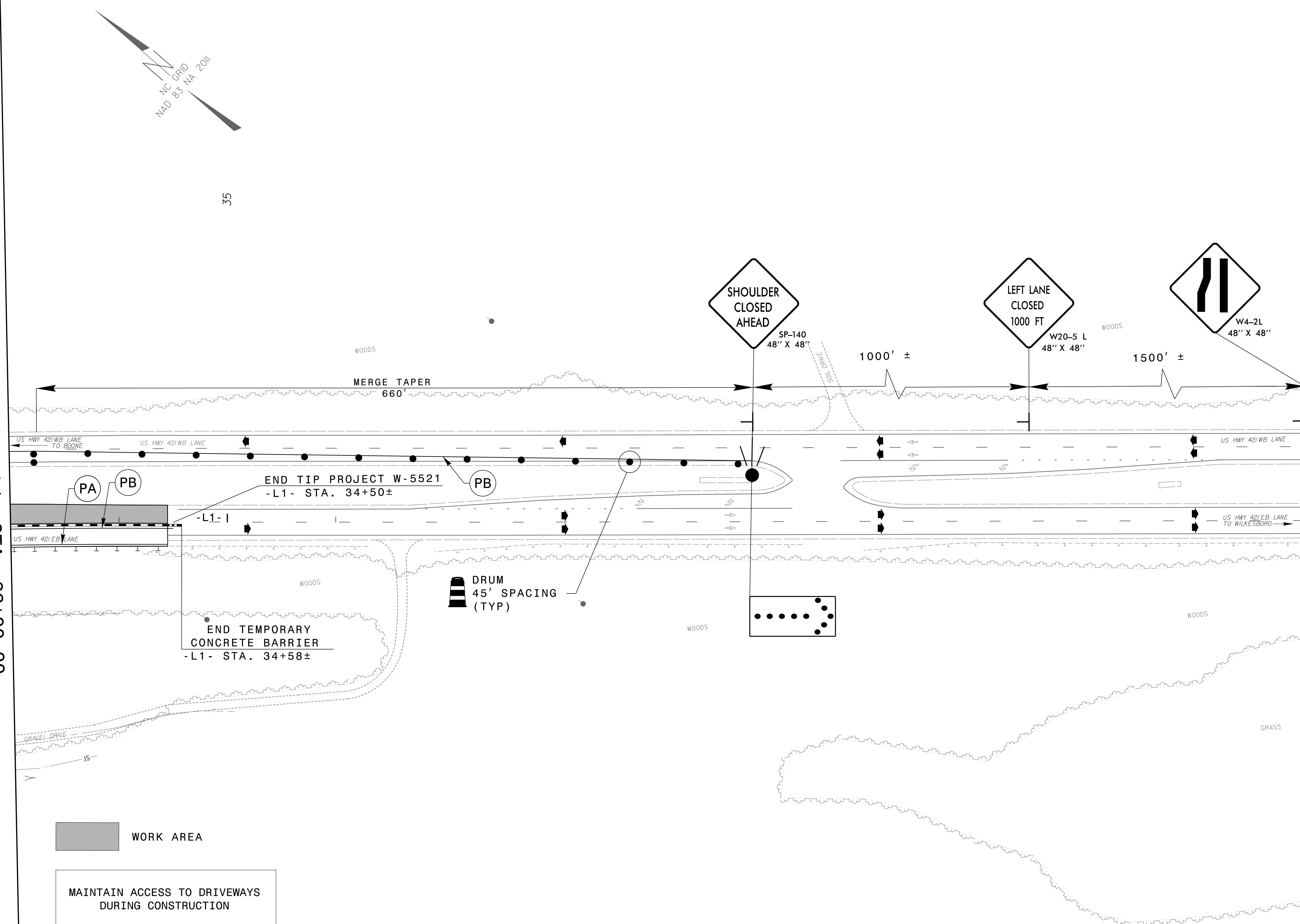


PHASE II

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(SEE SHEET TMP-14)

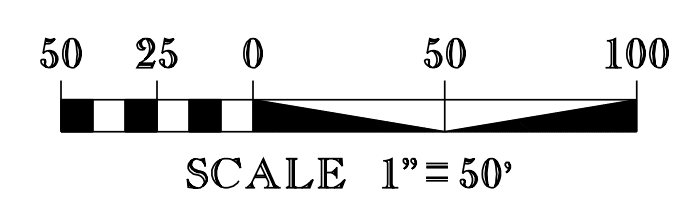
MATCHLINE (SEE SHEET TMP-16)



WORK AREA

MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION

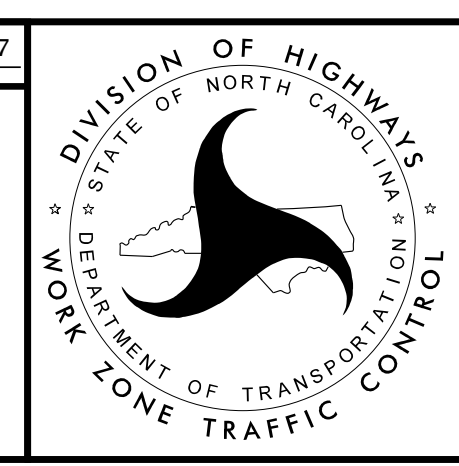
SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED *Lloyd D. Brown* DATE 7/19/2017

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 20119 ENGINEER LLOYD D. BROWN

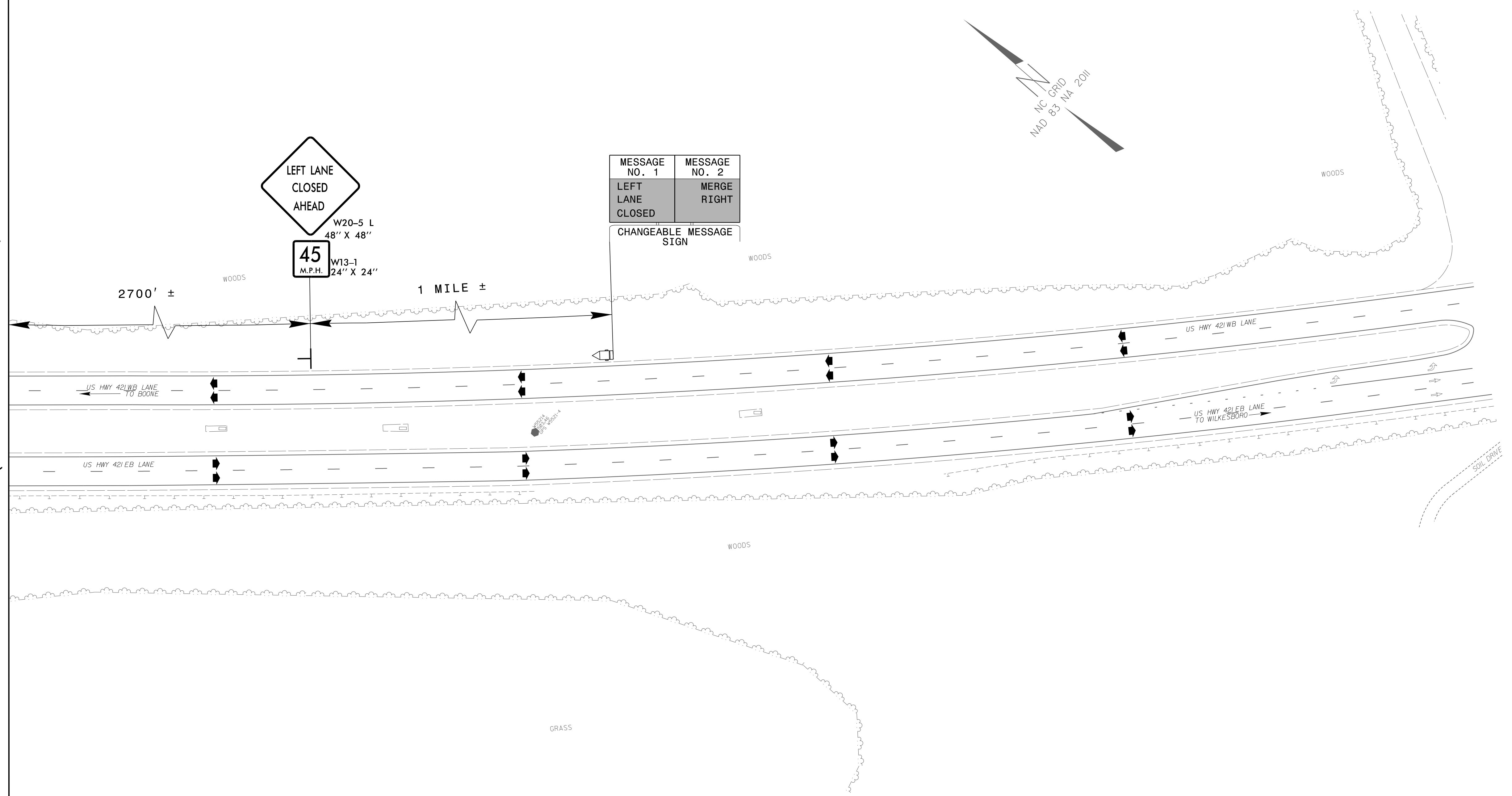


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User: jldobvas

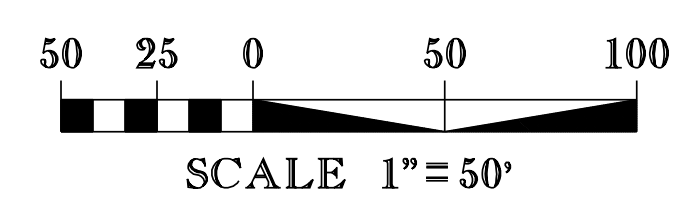
MATCHLINE (SEE SHEET TMP-15)



WORK AREA

MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION

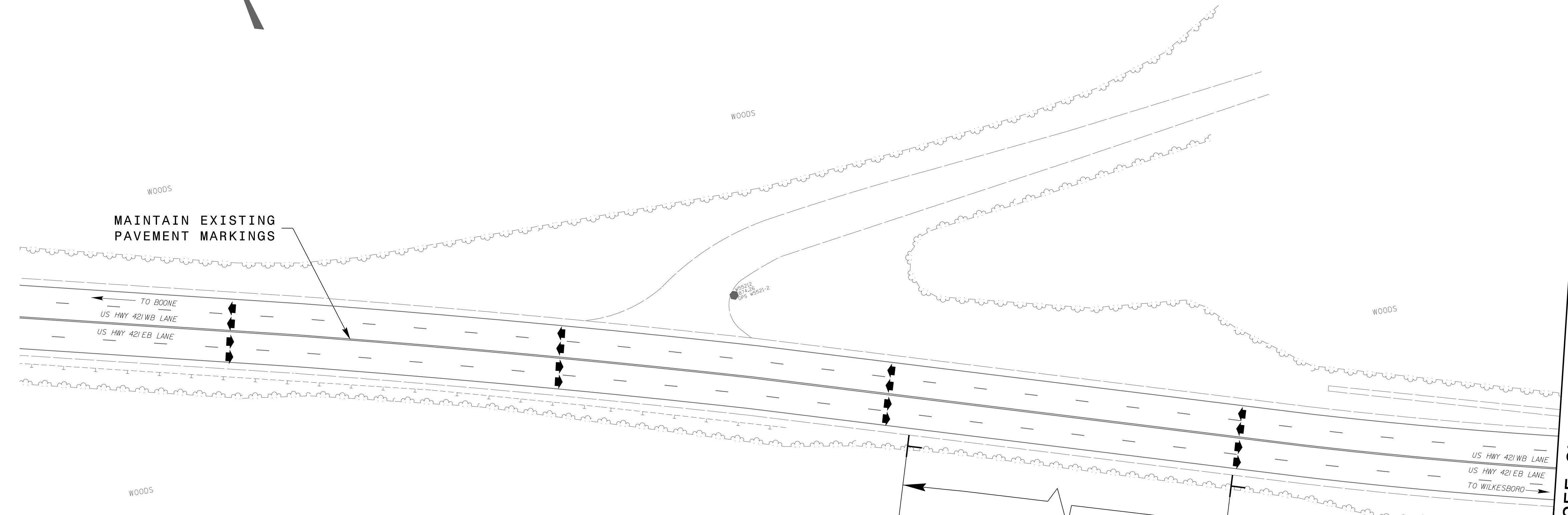
SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



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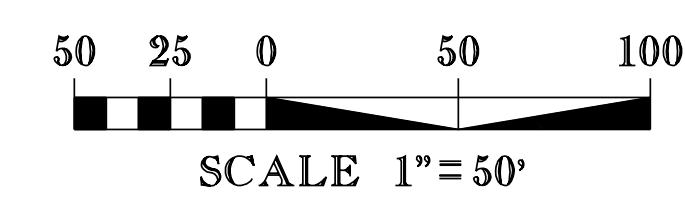
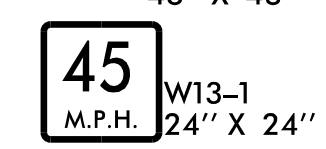
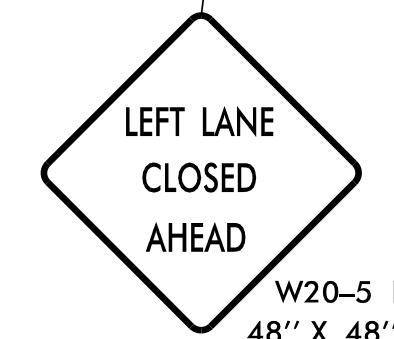
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7/17/2017
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User: jldcaves



MAINTAIN EXISTING
PAVEMENT MARKINGS

MESSAGE NO. 1	MESSAGE NO. 2
LEFT LANE CLOSED	MERGE RIGHT
CHANGEABLE MESSAGE SIGN	



WORK AREA

MAINTAIN ACCESS TO DRIVEWAYS
DURING CONSTRUCTION

SEE SHEET TMP-1A FOR TEMPORARY
PAVEMENT MARKING SCHEDULE

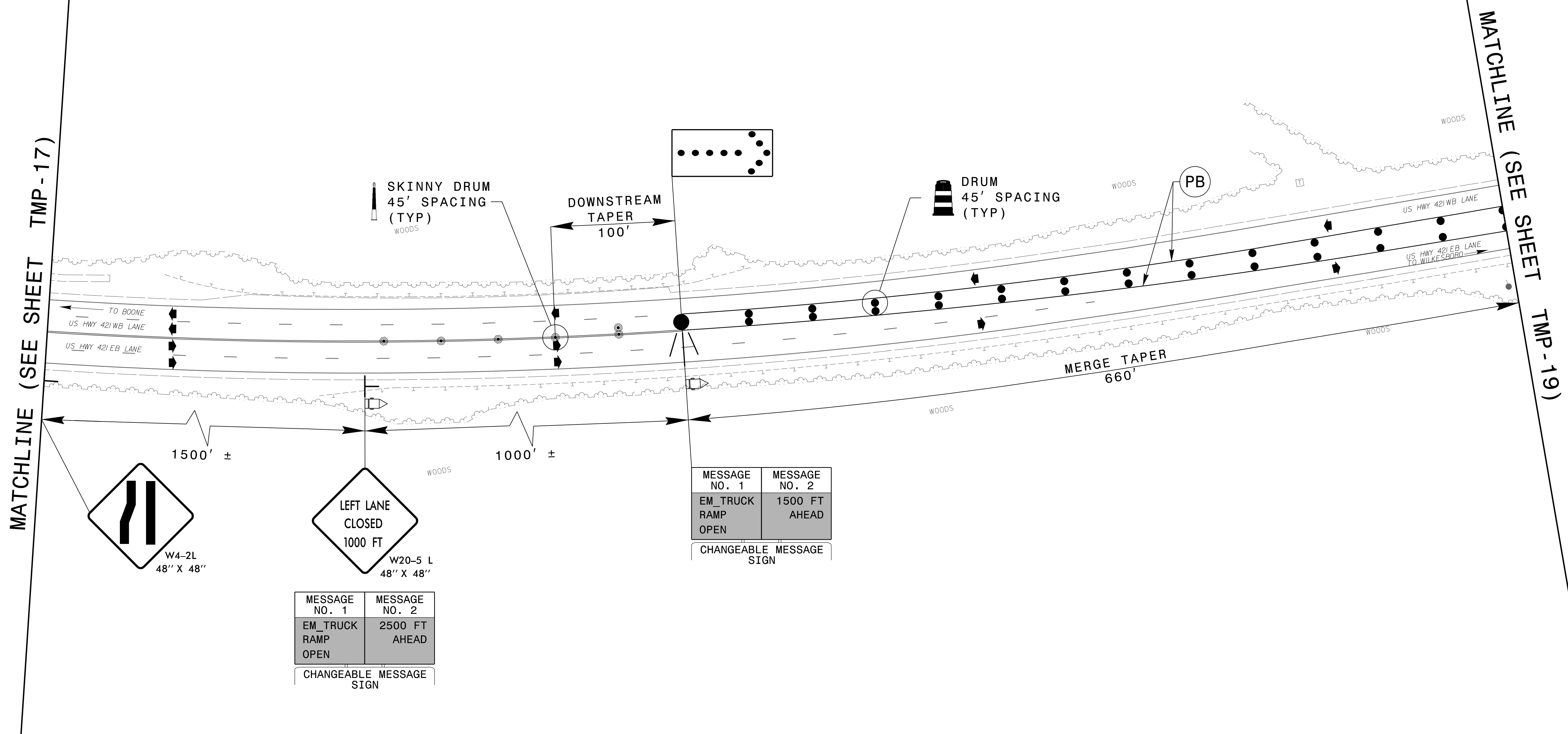
APPROVED *Lloyd D. Brown* DATE: 7/19/2017

SEAL

PHASE III

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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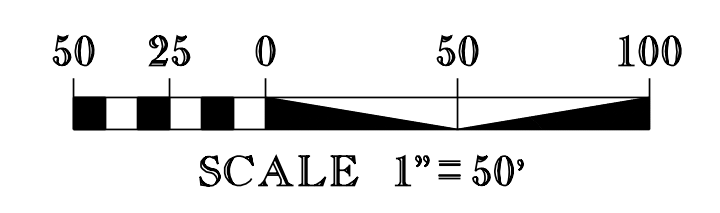
MATCHLINE (SEE SHEET TMP-17)

MATCHLINE (SEE SHEET TMP-19)

WORK AREA

MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION

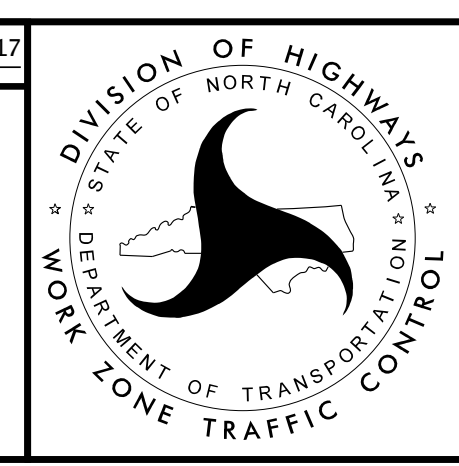
SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED *Lloyd D. Brown* DATE: 7/19/2017

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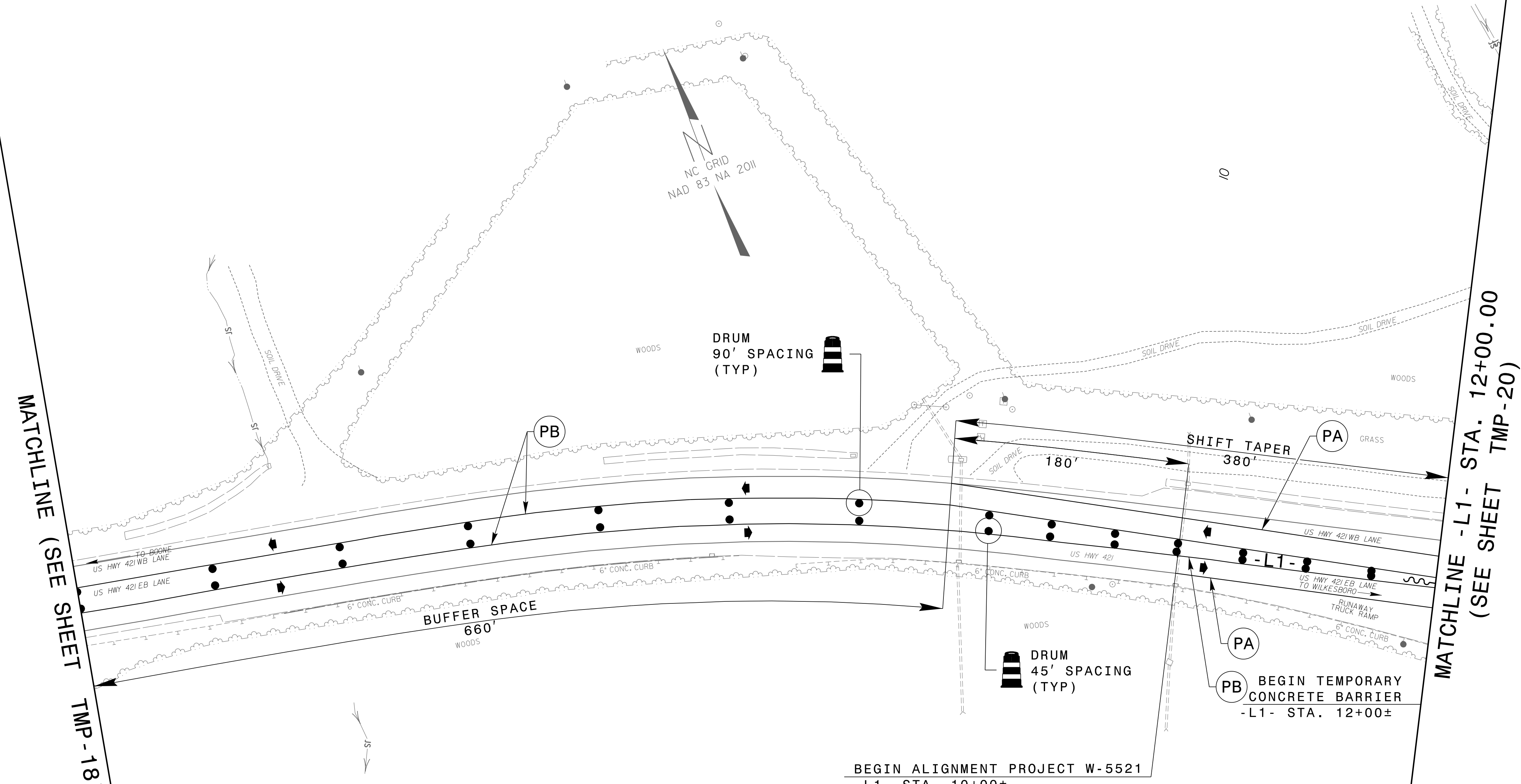
NORTH CAROLINA PROFESSIONAL SEAL 20119 ENGINEER LLOYD D. BROWN



PHASE III

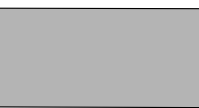
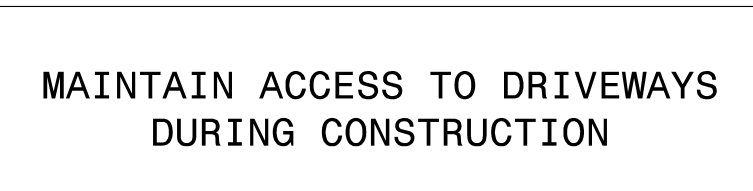
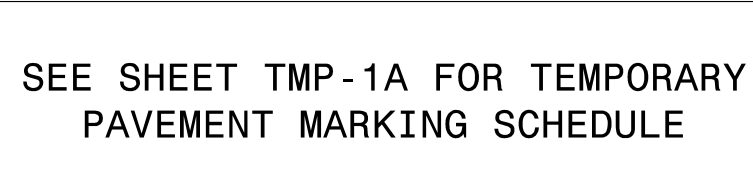
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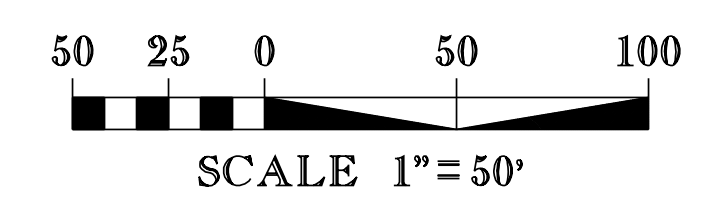
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MATCHLINE (SEE SHEET TMP-18)

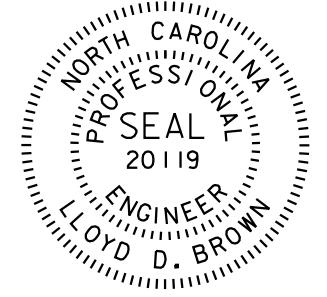
MATCHLINE -L1- STA. 12+00.00 (SEE SHEET TMP-20)


-  WORK AREA
-  MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
-  SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



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APPROVED: *Lloyd D. Brown* DATE: 7/19/2017

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 ENGINEER
 LLOYD D. BROWN

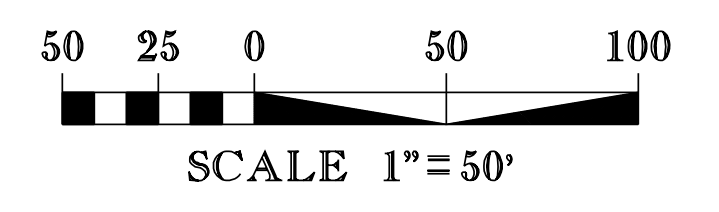
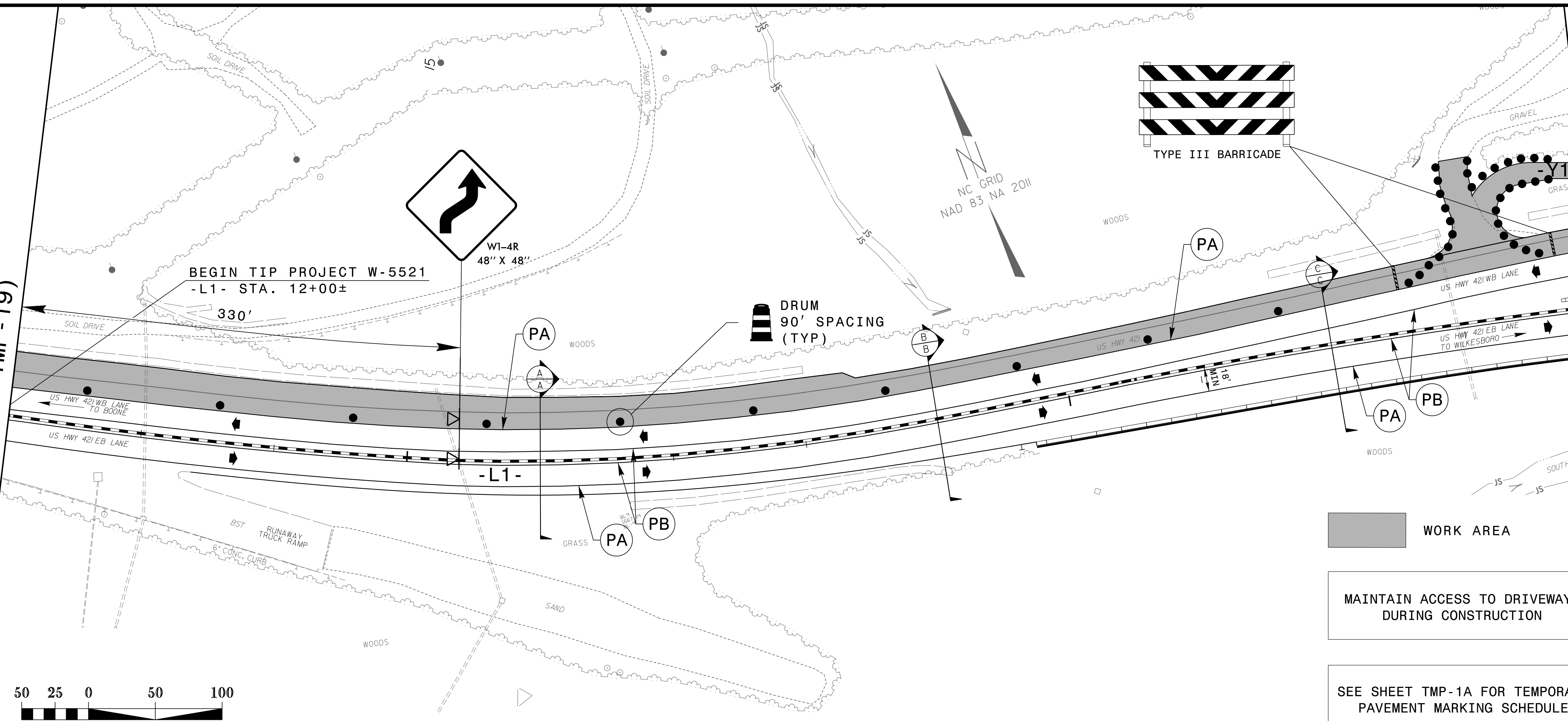


PHASE III

7/17/2017
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MATCHLINE -L1- STA. 12+00.00
(SEE SHEET TMP-19)

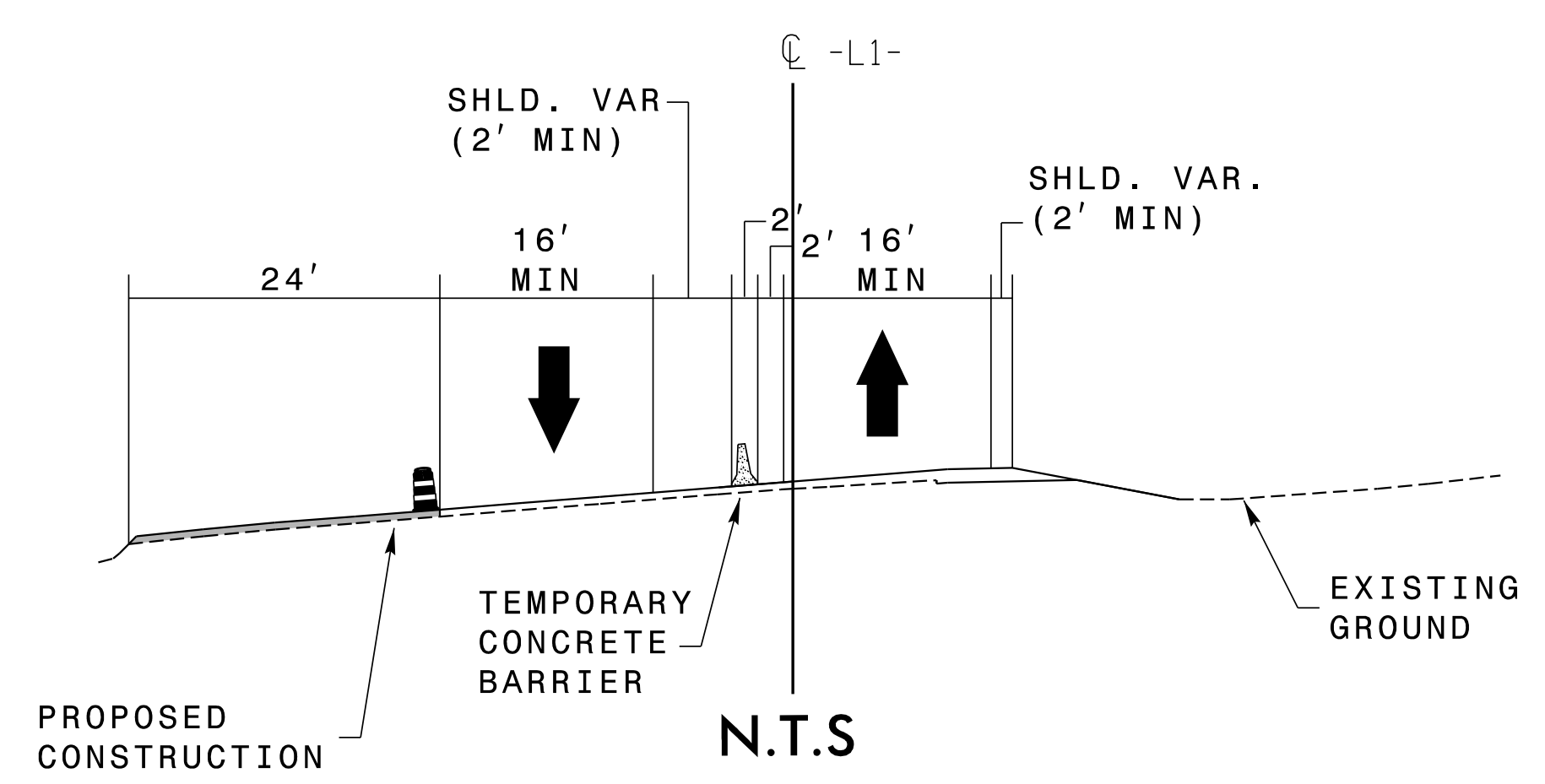
MATCHLINE -L1- STA. 24+00.00
(SEE SHEET TMP-21)



- WORK AREA
- MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
- SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

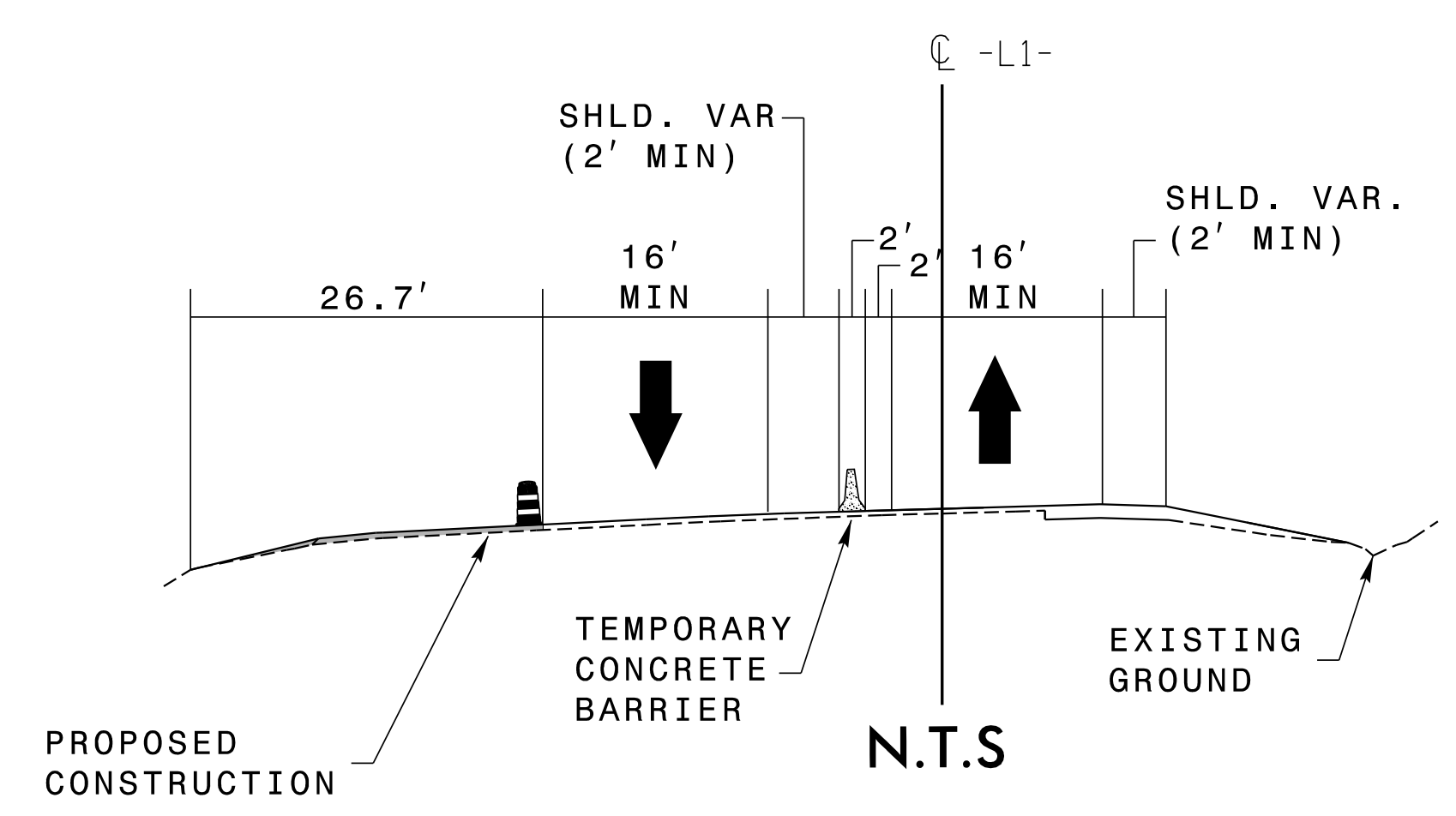
SECTION A - A

-L1- STA 16+00



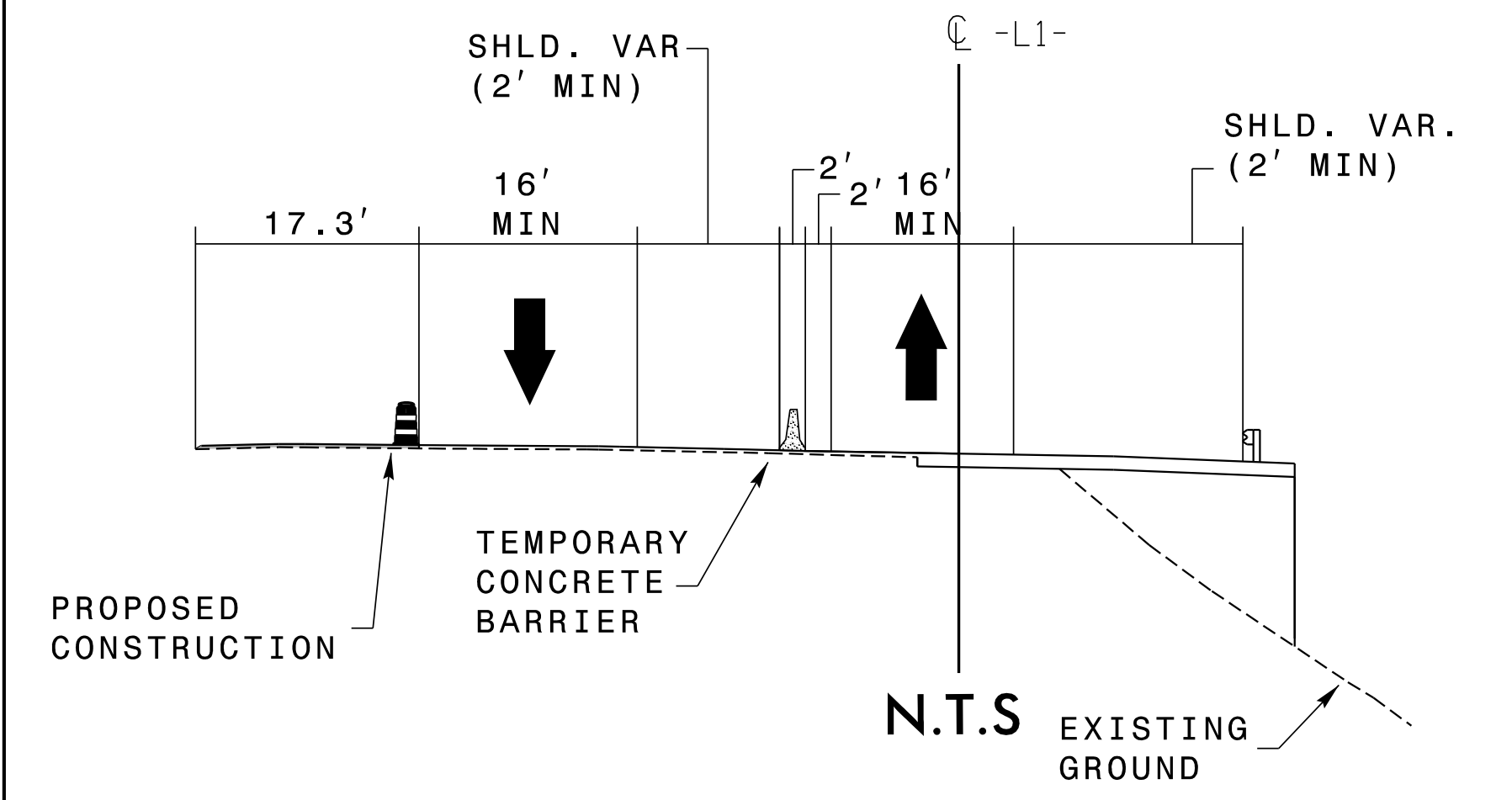
SECTION B - B

-L1- STA 19+00



SECTION C - C

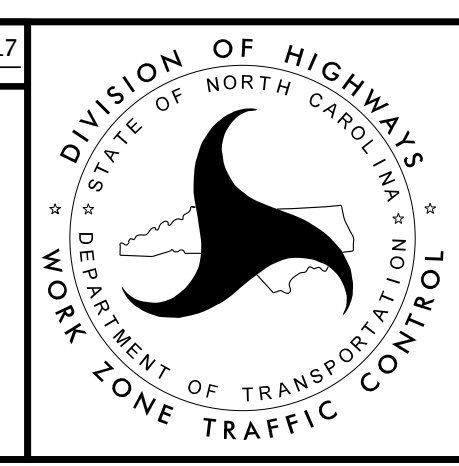
-L1- STA 22+00



7/17/2017
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User: jldcaves

APPROVED *Lloyd D. Brown* DATE: 7/19/2017

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NORTH CAROLINA
PROFESSIONAL
ENGINEER
LLOYD D. BROWN
20119

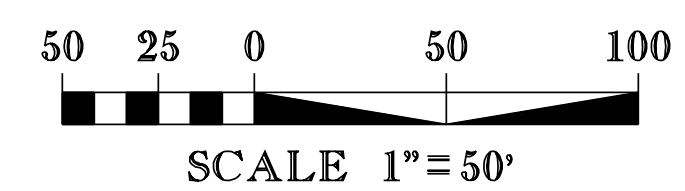


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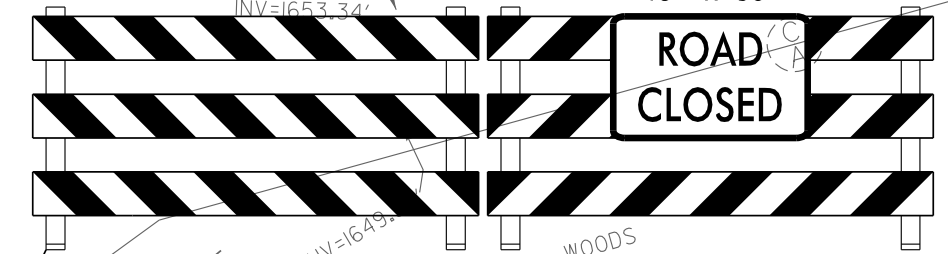
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UNLESS ALL SIGNATURES COMPLETED

MATCHLINE -L1- STA. 24+00.00
(SEE SHEET TMP-20)

MATCHLINE -L1- STA. 33+00.00
(SEE SHEET TMP-22)



BEGIN CONSTRUCTION
TIP PROJ. W-5521
-Y1- STA. 10+00±



DRUM
90' SPACING
(TYP)

DRUM
90' SPACING
(TYP)

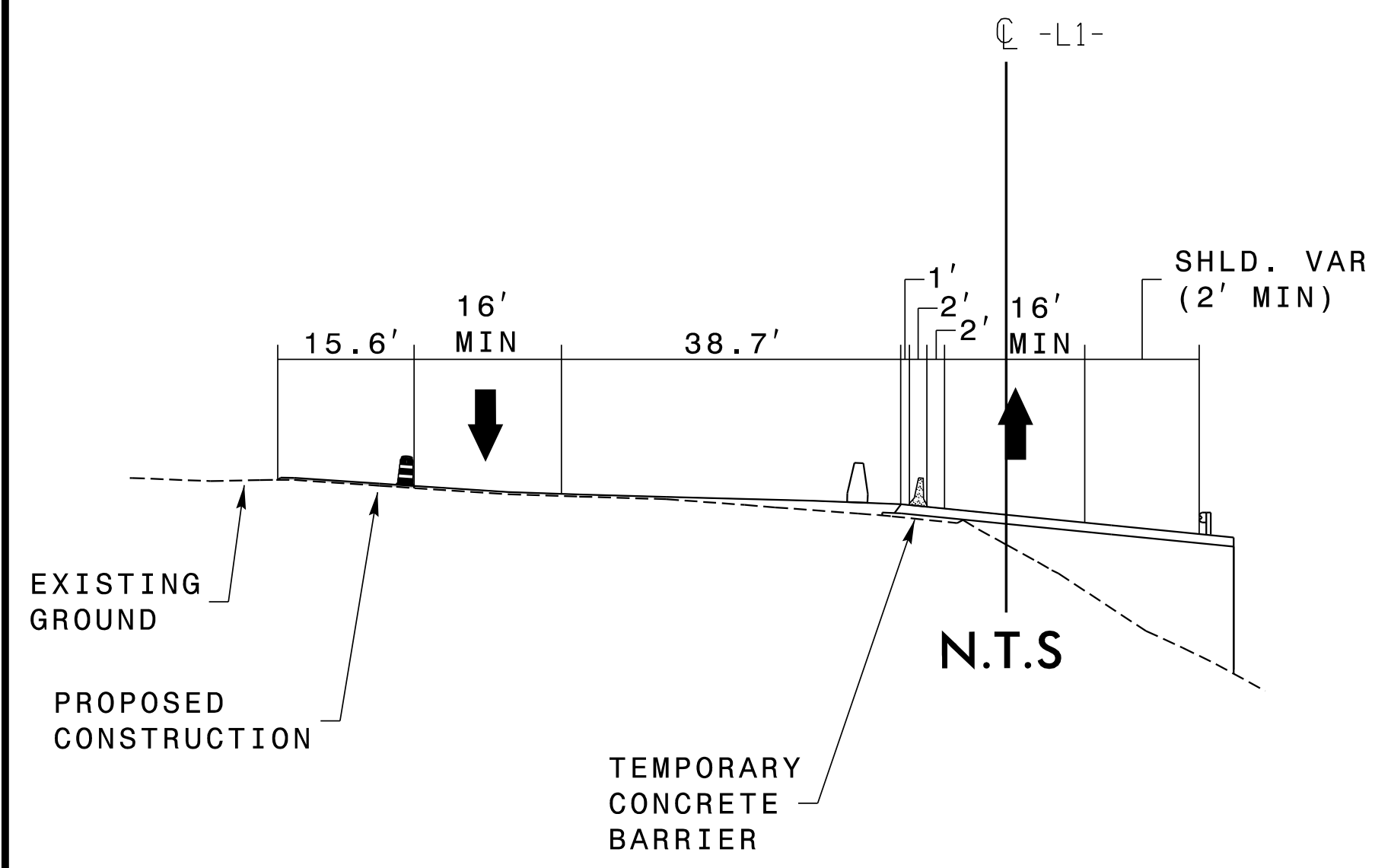
END WB LANE
RESURFACING
-L1- STA. 26+45±

NOTE: POSITION THE TMA TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER.

- WORK AREA
- MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
- SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

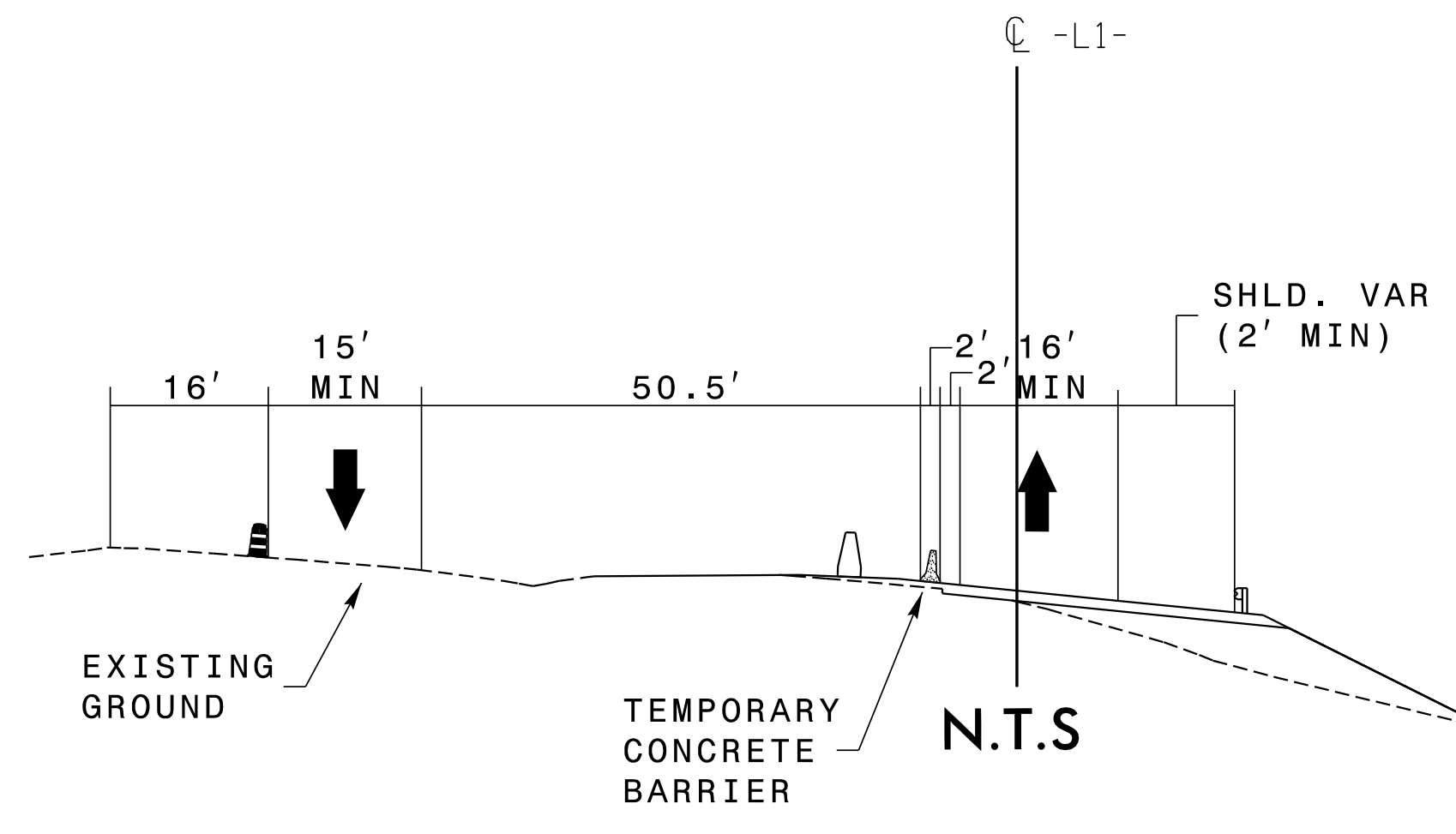
SECTION D - D

-L1- STA 26+00



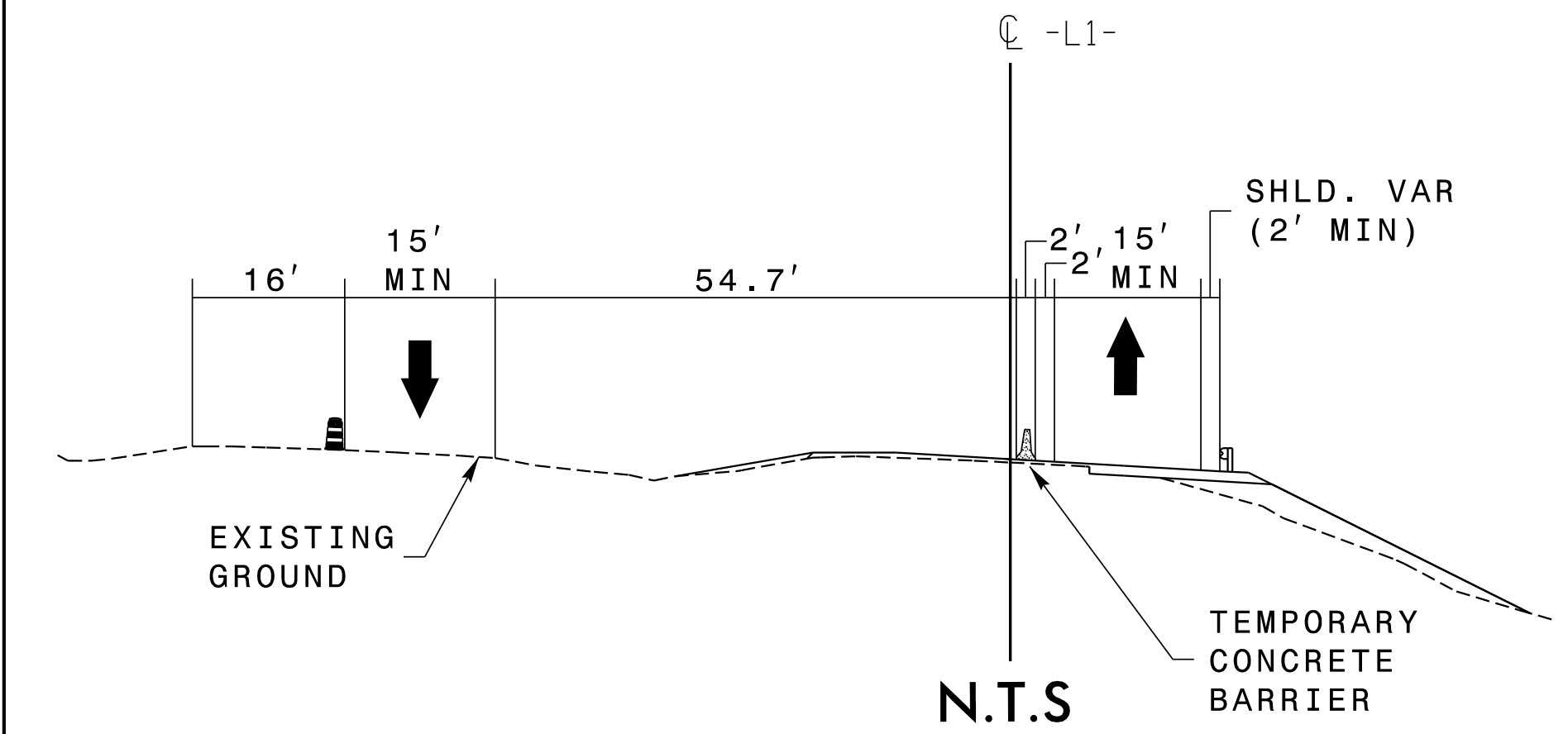
SECTION E - E

-L1- STA 29+00



SECTION F - F

-L1- STA 32+00

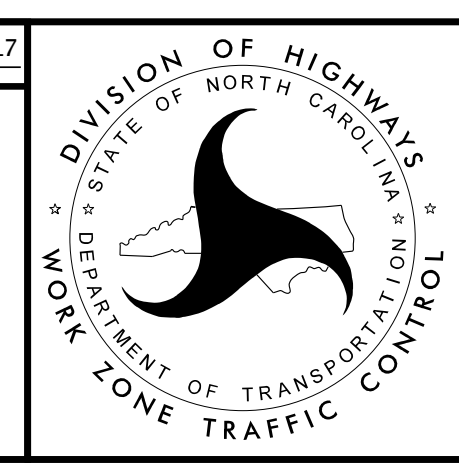


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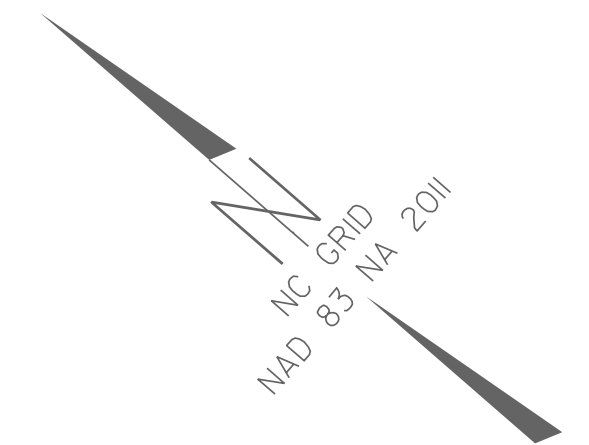
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UNLESS ALL SIGNATURES COMPLETED

APPROVED: *Lloyd D. Brown* DATE: 7/19/2017

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER LLOYD D. BROWN 20119

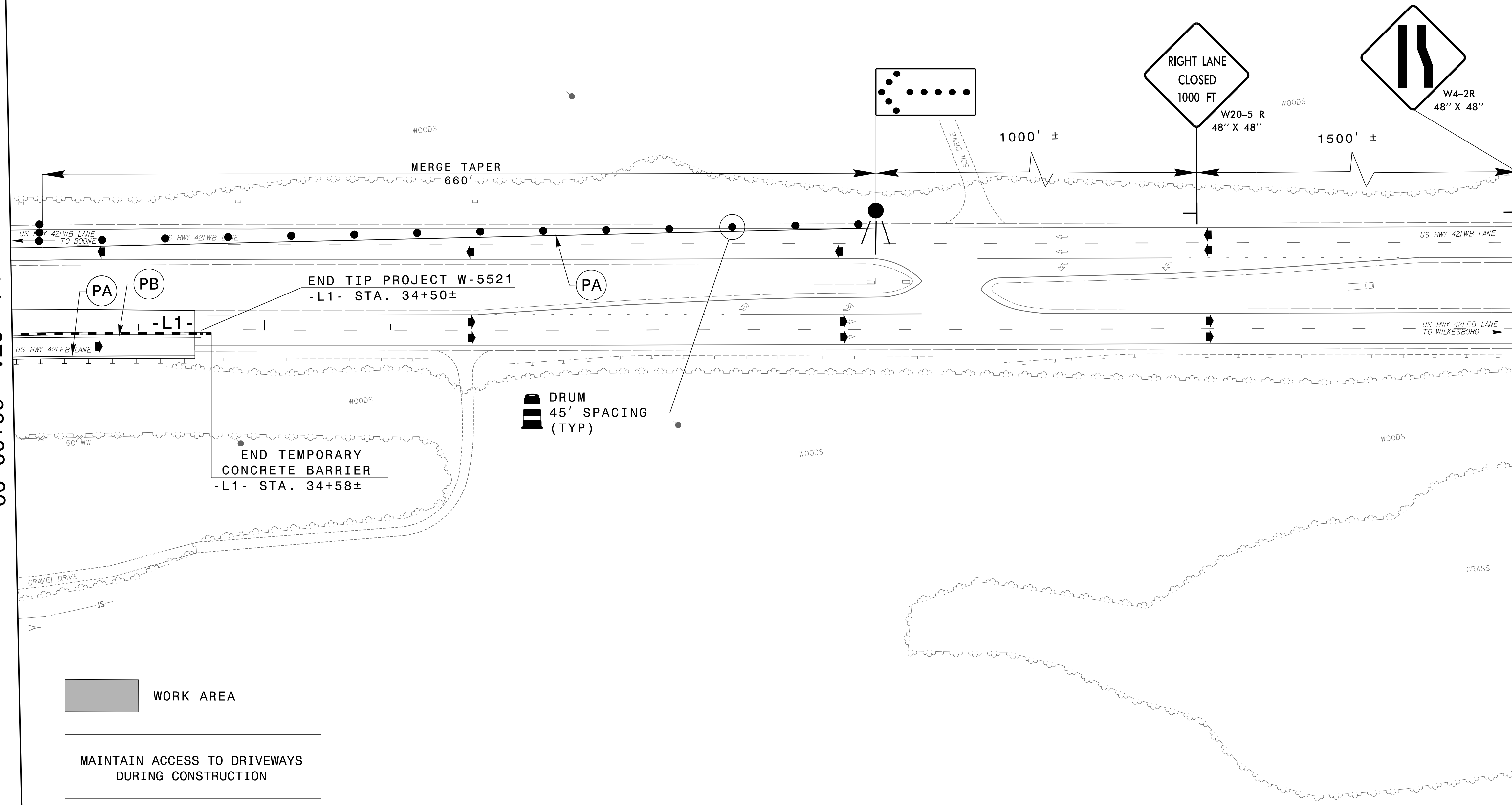


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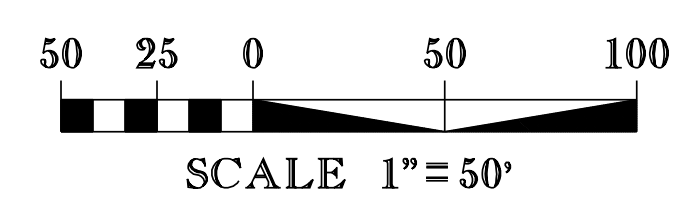


MATCHLINE -L1- STA. 33+00.00
(SEE SHEET TMP-21)

MATCHLINE (SEE SHEET TMP-23)



- WORK AREA
- MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
- SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



7/17/2017
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User: jldobbs

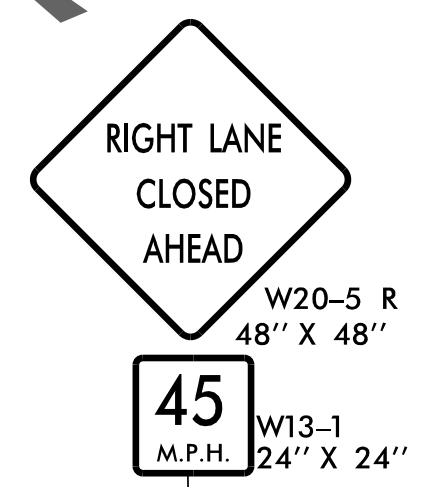
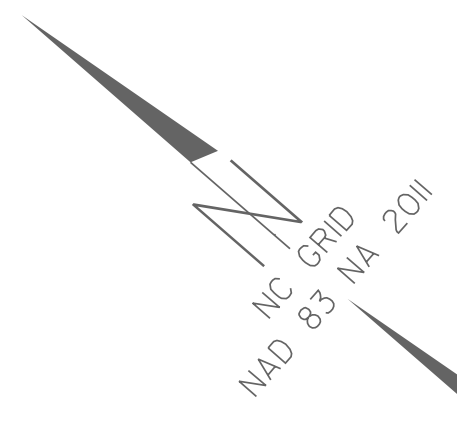
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APPROVED: *Lloyd D. Brown* DATE: 7/19/2017
 SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 20119
 ENGINEER
 LLOYD D. BROWN

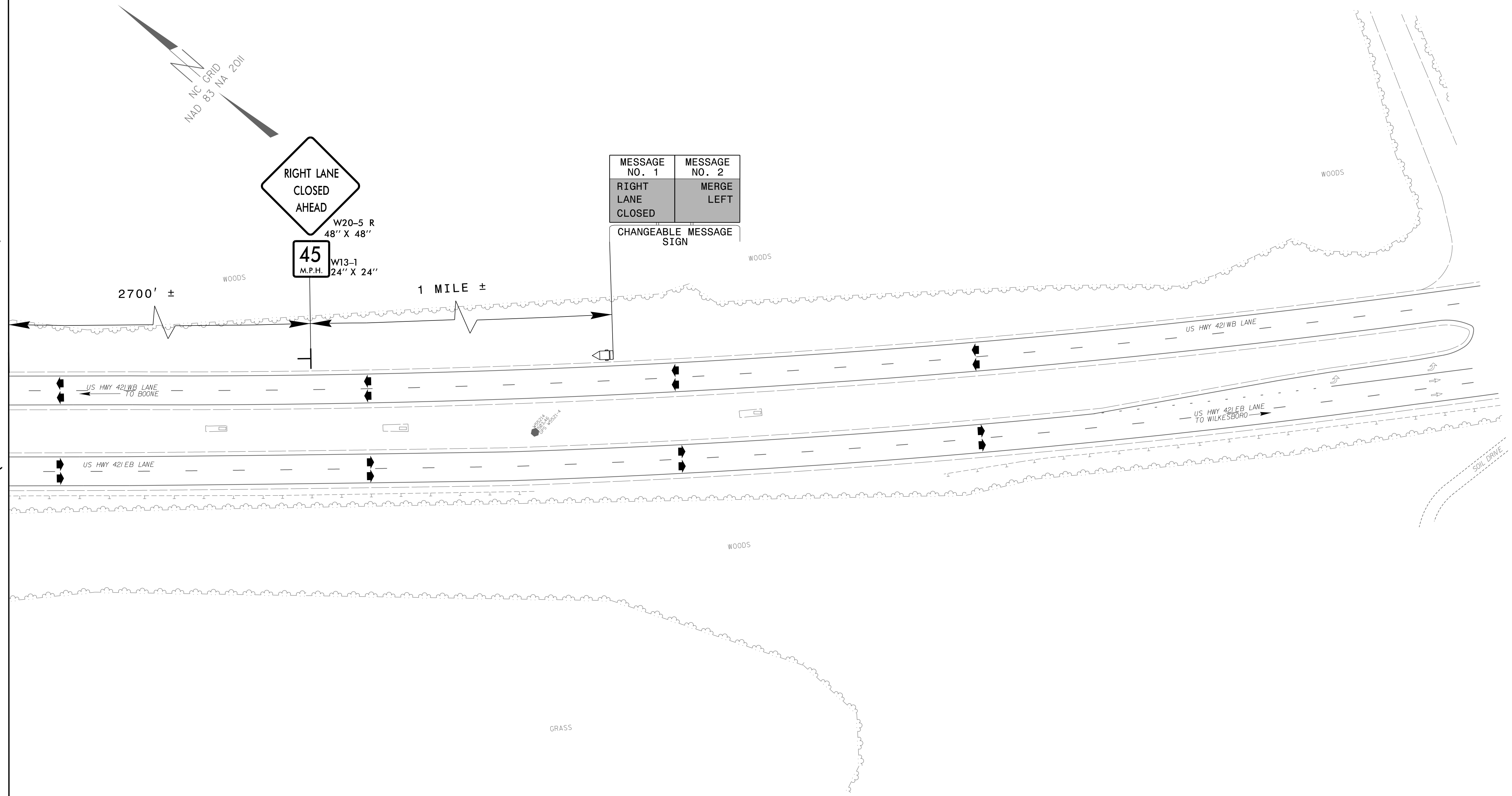


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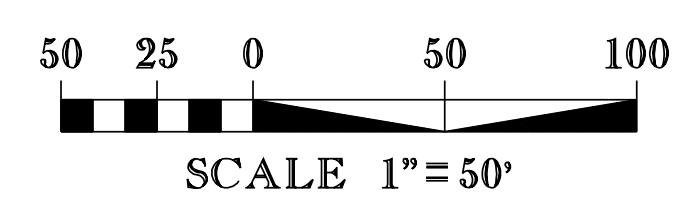
MATCHLINE (SEE SHEET TMP-22)



MESSAGE NO. 1	MESSAGE NO. 2
RIGHT LANE CLOSED	MERGE LEFT
CHANGEABLE MESSAGE SIGN	



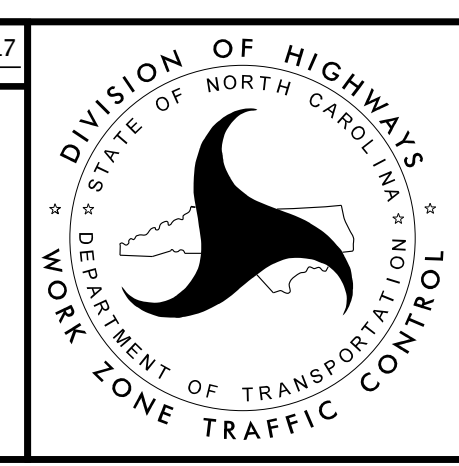
- WORK AREA
- MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
- SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE



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PHASE III

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TIP PROJECT: W5521

CONTRACT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**PAVEMENT MARKING PLAN
WILKES COUNTY**

**LOCATION : US 421 RE-ALIGNMENT SAFETY IMPROVEMENT
PROJECT BETWEEN WILKESBORO AND BOONE**

TIP NO. W5521	SHEET NO. PMP-1
APPROVED: Lloyd D. Brown <small>339540P17F5746B</small>	
DATE: 7/19/2017	
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ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C. DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE & MULTILANE ROADWAYS
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES & MOUNTING
1262.01	GUARDRAIL END DELINEATION

GENERAL NOTES

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.

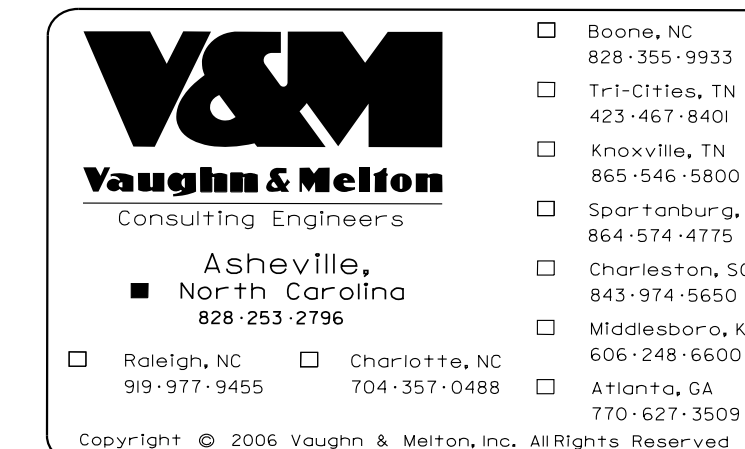
- A.) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE
ROAD NAME: _____ MARKING _____ MARKER _____
US HIGHWAY 421 POLYUREA & THERMOPLASTIC SNOWPLOWABLE RAISED
- B.) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C.) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D.) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

FINAL PAVEMENT MARKING SCHEDULE

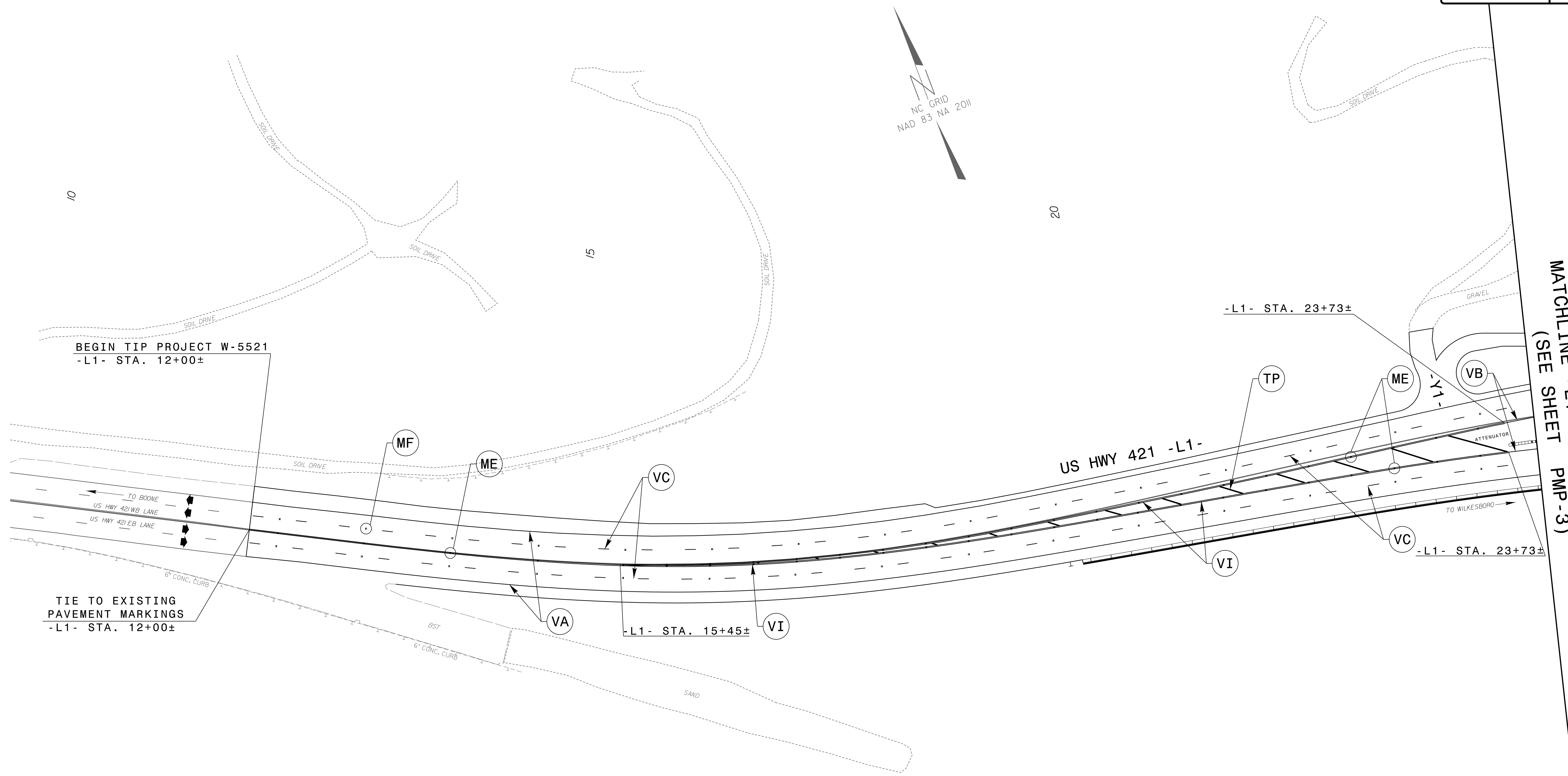
SYMBOL	DESCRIPTION	QUANTITY BREAKDOWN	PAY ITEM	TOTAL QUANTITY
VA	WHITE EDGE LINE (4")	3690 FT	4847000000-E (POLYUREA)	3690 FT
VB	YELLOW EDGE LINE (4")	1361 FT	4847000000-E (POLYUREA)	1361 FT
VC	10 FT. WHITE SKIP (4")	924 FT	4847000000-E (POLYUREA)	924 FT
VI	YELLOW DOUBLE CENTER (4")	3992 FT	4847000000-E (POLYUREA)	3992 FT
TP	YELLOW DIAGONAL (8")	249 FT	4695000000-E (THERMOPLASTIC)	249 FT
ME	SNOWPLOWABLE MARKER (YELLOW & YELLOW)	45 EA	4905000000-N (SNOWPLOWABLE MARKER)	45 EA
MF	SNOWPLOWABLE MARKER (CRYSTAL & RED)	46 EA	4905000000-N (SNOWPLOWABLE MARKER)	46 EA

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PERMANENT PAVEMENT MARKING PLAN SCHEDULE
PMP-2	PERMANENT PAVEMENT MARKING PLAN DETAIL
PMP-3	PERMANENT PAVEMENT MARKING PLAN DETAIL



TRANSPORTATION ENGINEER LLOYD D. BROWN, P.E.
TRANSPORTATION DESIGN ENGINEER C. GONZALEZ-MARTELL



BEGIN TIP PROJECT W-5521
-L1- STA. 12+00±

TIE TO EXISTING
PAVEMENT MARKINGS
-L1- STA. 12+00±

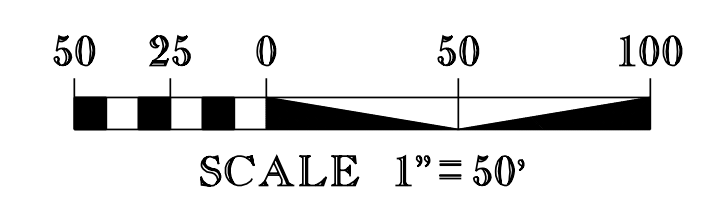
-L1- STA. 23+73±

-L1- STA. 15+45±

-L1- STA. 23+73±

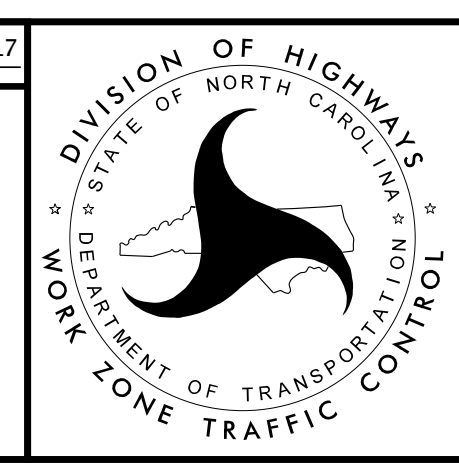
MATCHLINE -L1- STA. 24+00.00
(SEE SHEET PMP-3)

PAVEMENT MARKING	
SYMBOL	DESCRIPTION
VA	WHITE EDGE LINE (4")
VB	YELLOW EDGE LINE (4")
VC	10 FT. WHITE SKIP (4")
VI	YELLOW DOUBLE CENTER (4")
TP	YELLOW DIAGONAL (8")
ME	SNOWPLOWABLE MARKER (YELLOW & YELLOW)
MF	SNOWPLOWABLE MARKER (CRYSTAL & RED)



APPROVED: *Lloyd D. Brown* DATE: 7/19/2017

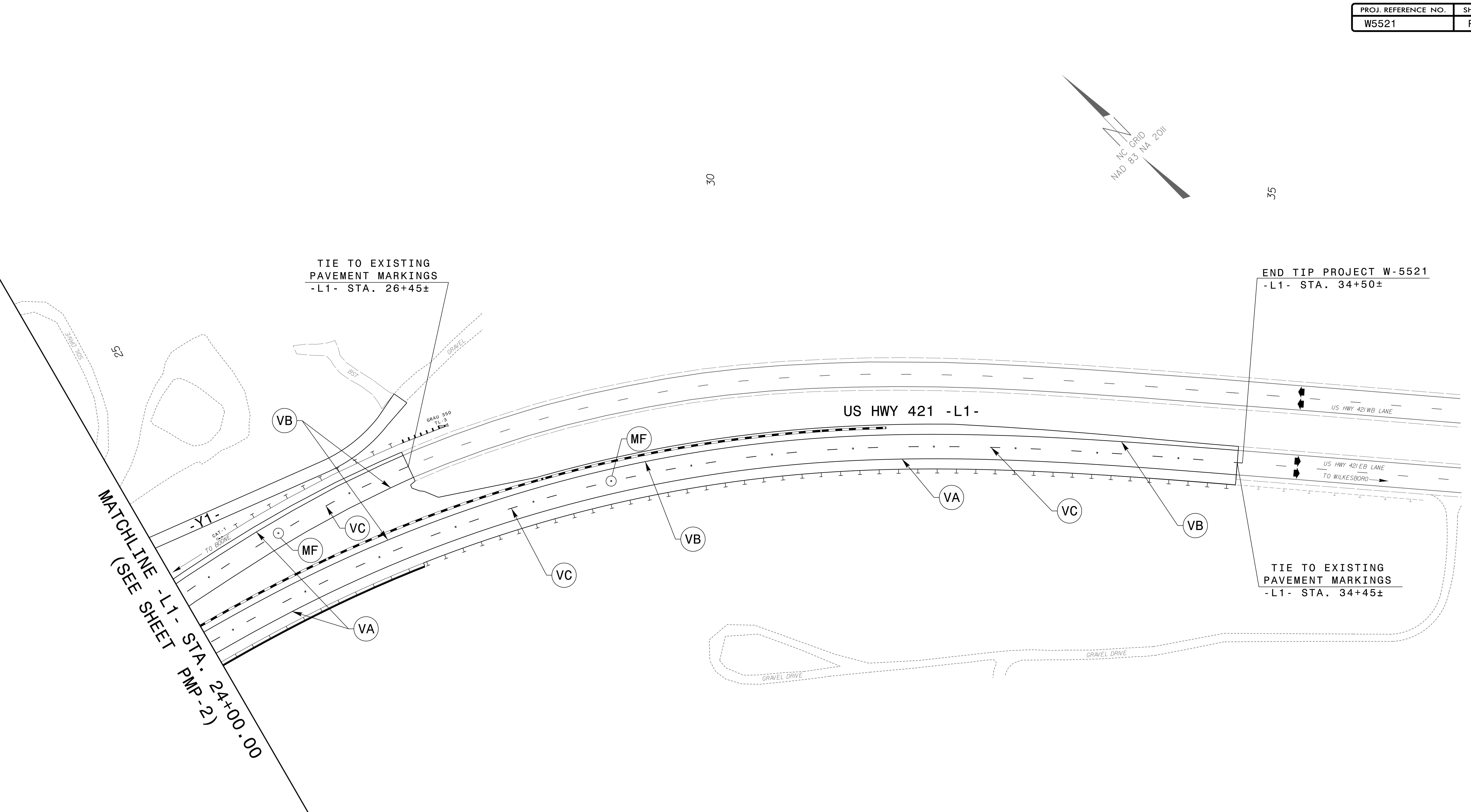
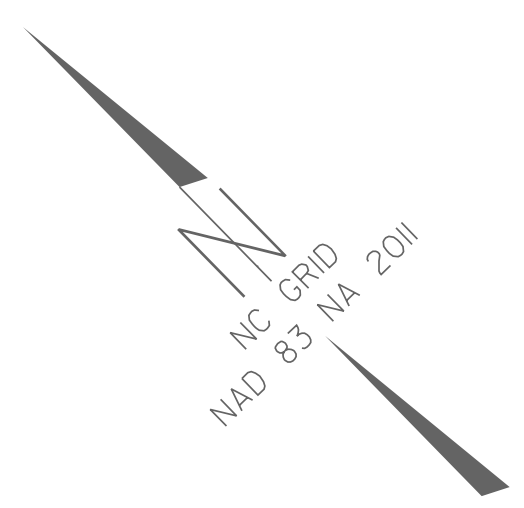
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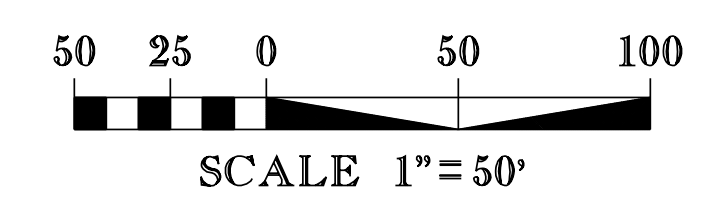
PERMANENT PAVEMENT MARKING PLAN

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7/19/2017
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User: jgibson

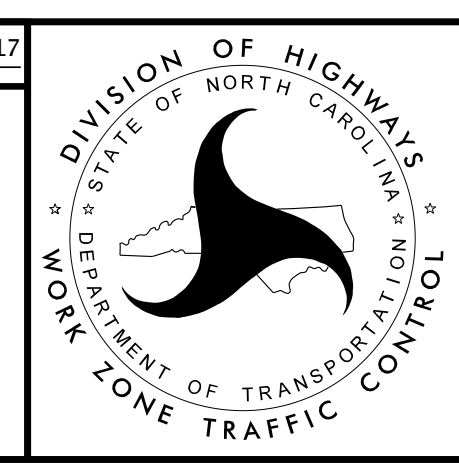


PAVEMENT MARKING	
SYMBOL	DESCRIPTION
VA	WHITE EDGE LINE (4")
VB	YELLOW EDGE LINE (4")
VC	10 FT. WHITE SKIP (4")
VI	YELLOW DOUBLE CENTER (4")
TP	YELLOW DIAGONAL (8")
ME	SNOWPLOWABLE MARKER (YELLOW & YELLOW)
MF	SNOWPLOWABLE MARKER (CRYSTAL & RED)



APPROVED BY: *Lloyd D. Brown* DATE: 7/19/2017

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PERMANENT PAVEMENT MARKING PLAN

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7/19/2017
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