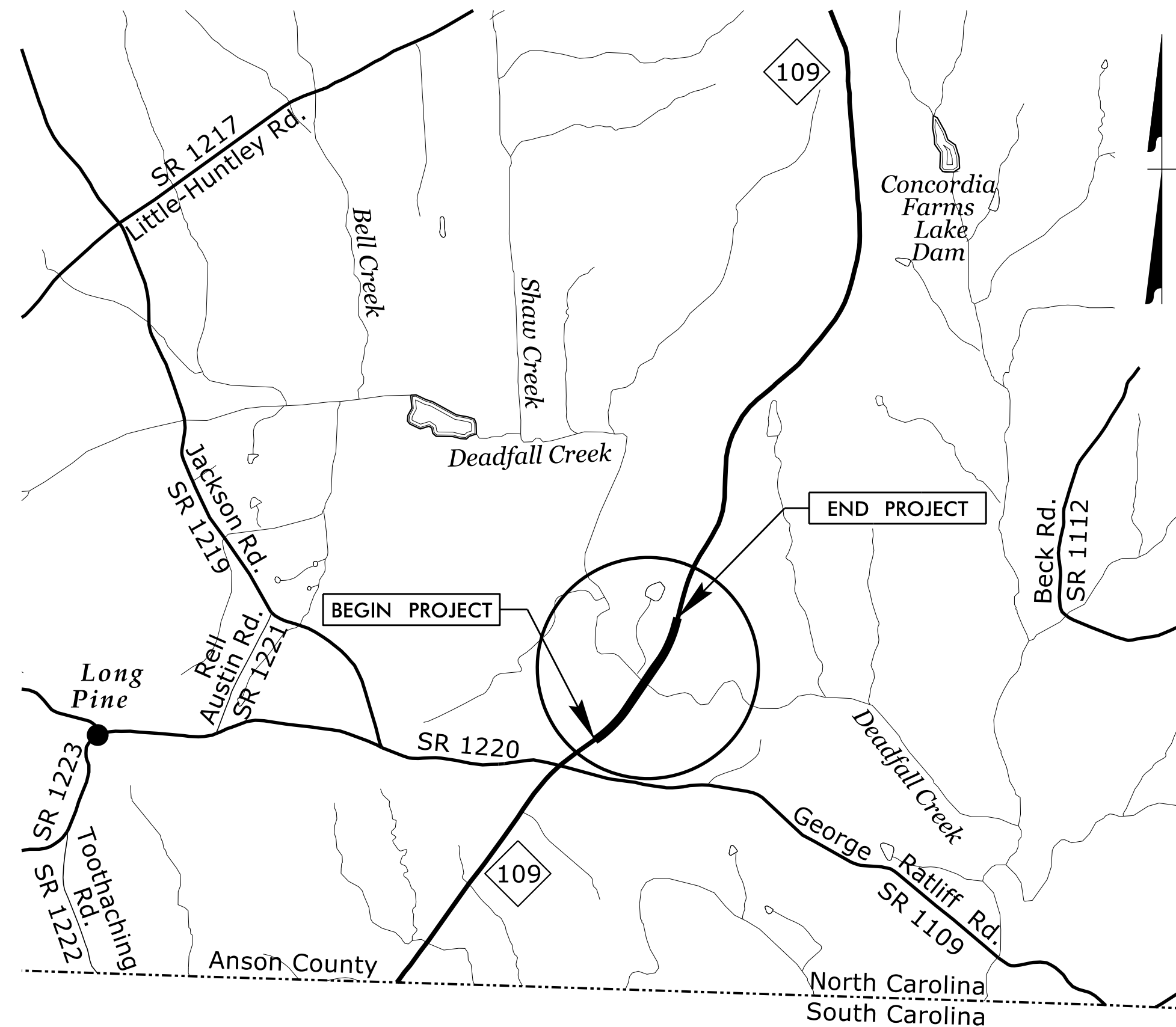
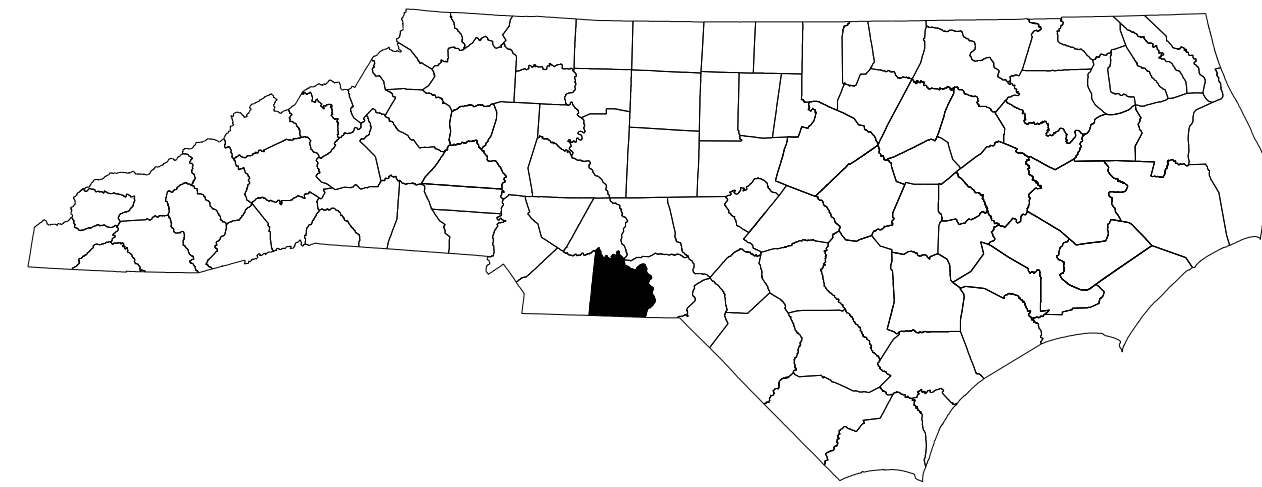


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

ANSON COUNTY



VICINITY MAP

LOCATION: BRIDGE #011 OVER DEADFALL CREEK ON NC 109
TYPE OF WORK: GRADING, DRAINAGE, PAVING, & STRUCTURE

INDEX OF SHEETS

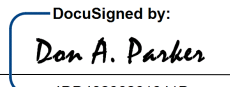
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	TEMPORARY SHORING DATA
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-5	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-6	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-7	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-8	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-9	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL

SHEET NO.
TMP-1

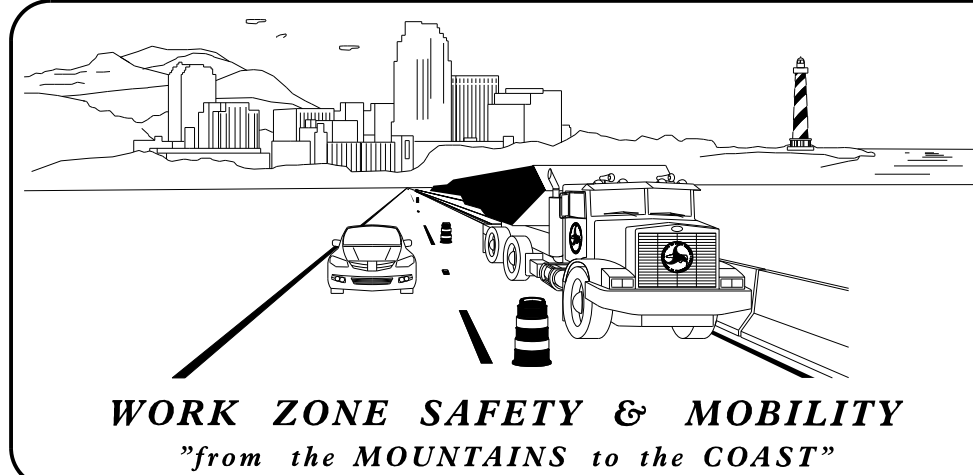
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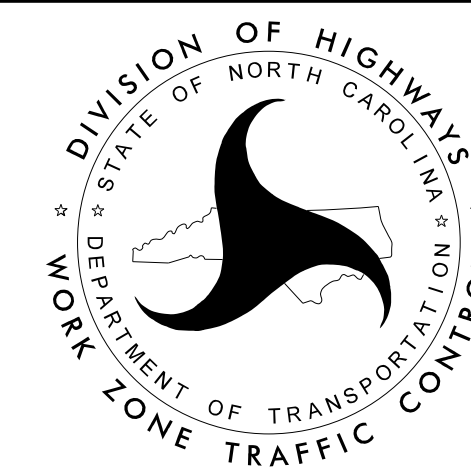
PLANS PREPARED BY:

M. A. AKLILU

NCDOT CONTACTS:

DON A. PARKER, P.E.
PROJECT ENGINEER

KARMEN DAIS, P.E.
PROJECT DESIGN ENGINEER



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	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
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 TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- REMOVAL

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

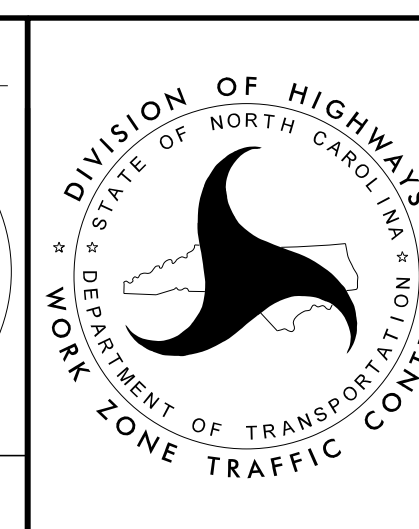
TEMPORARY PAVEMENT MARKING

- C1 - WHITE EDGELINE (COLD APPLIED PLASTIC TYPE 4) - 4"
- C13 - YELLOW DOUBLE CENTER (COLD APPLIED PLASTIC TYPE 4) - 4"
- P1 - WHITE EDGELINE (PAINT) - 4"
- P13 - YELLOW DOUBLE CENTER (PAINT) - 4"
- ML - TEMPORARY RAISED MARKER (CRYSTAL & CRYSTAL)

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 Don A. Parker
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ROADWAY STANDARD
DRAWINGS & LEGEND

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MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED STRATEGIES:

- LANE SHIFTS OR CLOSURES
- ONE-LANE, TWO WAY OPERATION (FLAGGING)
- FULL ROADWAY CLOSURES

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 UNDESIRABLE 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 STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY & TIME RESTRICTIONS	DURATION & OPERATION
-L- (NC 109)	MONDAY THRU FRIDAY 6:00 AM - 9:00 AM & 4:00 PM - 7:00 PM	30 MIN CLOSURE FOR GIRDER INSTALLATION OR ROCK BLASTING

LANE AND SHOULDER CLOSURE REQUIREMENTS

- B) 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.
- C) 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.
- D) 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 (SHEET 1 OF 14) UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- E) 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.
- F) 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.
- G) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON NC 109.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- 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 TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350 FT. 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.

TRAFFIC CONTROL DEVICES

- M) 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.

PAVEMENT MARKINGS AND MARKERS

- N) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:


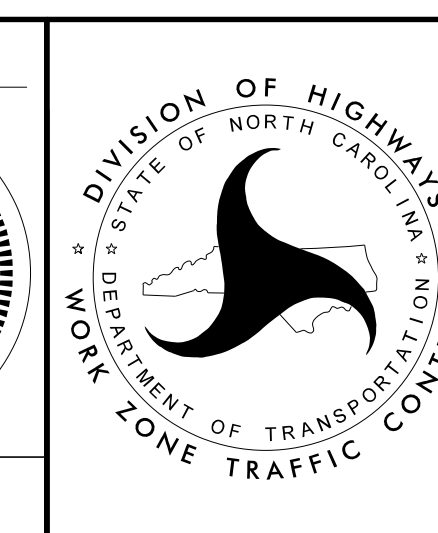
ROAD NAME	MARKING	MARKER
NC 109 (-L-)	PAINT	TEMPORARY RAISED
NC 109 (-L-) BRIDGE DECK	COLD APPLIED PLASTIC TYPE 4	TEMPORARY RAISED

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

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TRANSPORTATION OPERATIONS PLAN

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SHORING LOCATION NO. 1 AND 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 -L- 27+03, 25' LT, TO STATION -L- 27+30, 25' LT AND FROM STATION -L- 28+20, 25' LT TO STATION -L- 31+50, 25' LT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 PCF

FRICTION ANGLE (ϕ) = 30 DEGREES

COHESION (c) = 0 PSF

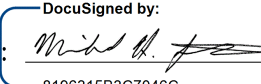
GROUNDWATER ELEVATION = N/A FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- 27+03, 25' LT, TO STATION -L- 27+30, 25' LT AND FROM STATION -L- 28+20, 25' LT TO STATION -L- 31+50, 25' LT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

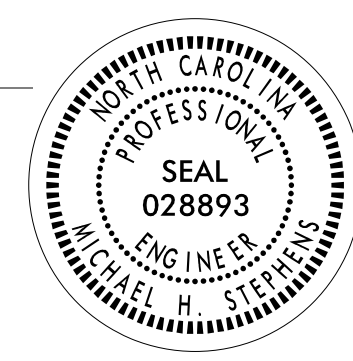
AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 27+03, 25' LT, TO STATION -L- 27+30, 25' LT AND FROM STATION -L- 28+20, 25' LT TO STATION -L- 31+50, 25' LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

WHEN BACKFILL FOR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.

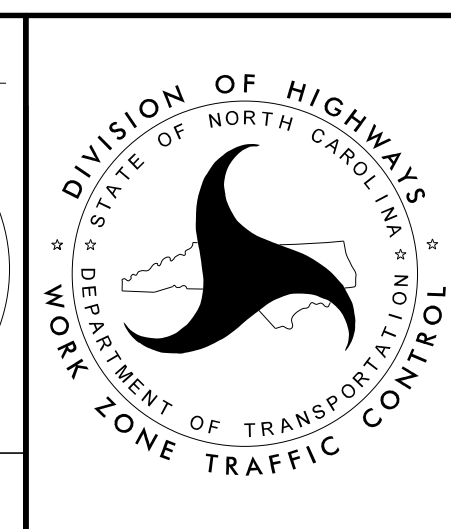
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TEMPORARY SHORING NOTES

TEMPORARY TRAFFIC CONTROL PHASING

NOTE: BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL PLACE ADVANCE WORK ZONE WARNING SIGNS ALONG -L- LINE (NC 109), (SEE RSD 1101.01, SHEET 3 OF 3)

PHASE I

- STEP 1 -- USING RSD 1101.02, SHEET 1, INSTALL TEMPORARY GUARDRAIL FROM -L- STA. 29+63 +/- TO -L- STA. 32+13+/- (SEE TMP-5)
- BEGIN CLEARING, GRADING, DRAINAGE INSTALLATION, AND SHORING INSTALLATION (SEE TMP-4 THROUGH 6)
- INSTALL CHANGEABLE MESSAGE SIGNS (CMS) AT GEORGE RATLIFF RD./NC 109 INTERSECTION AND HALF A MILE NORTH OF THE PROJECT 7 DAYS PRIOR TO BEGINNING BLASTING OPERATIONS. KEEP CMS IN PLACE DURING BLASTING OPERATIONS. (SEE TMP-4 AND 6 FOR SUGGESTED MESSAGES)
- USING RSD 1101.06, SHEET 1, CONDUCT BLASTING OPERATIONS. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES)
- STEP 2 -- USING RSD 1101.02, SHEET 1 AS NEEDED, CONSTRUCT -L-, INCLUDING BRIDGE AND APPROACHES FROM -L-STA. 19+00+/- TO -L- STA. 36+00 +/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE TMP-4 THROUGH 6)
- USING RSD 1101.03, SHEET 8, STOP TRAFFIC ON -L- FOR GIRDER DELIVERY AND INSTALLATION (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES)
- USING RSD 1101.02, SHEET 1, CONSTRUCT -L- TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT AS FOLLOWS (SEE TMP-4 AND 6):
- -L- STA 14+50 +/- TO -L- STA 19+00 +/-
- -L- STA 36+00 +/- TO STA 40+50 +/-


NOTE: WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK OF STEP 2 IN A SINGLE WORK PERIOD

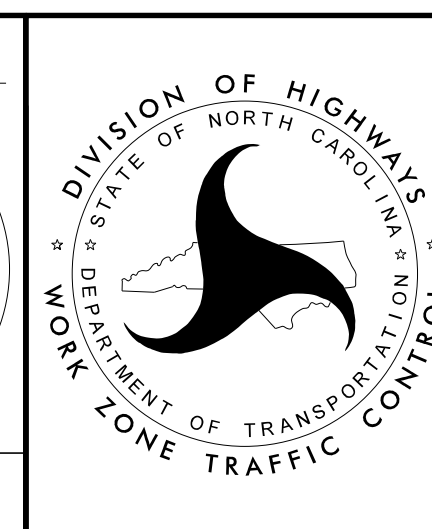
- STEP 3 -- USING RSD 1101.02, SHEET 1, COMPLETE PAVING OF NEXT TO FINAL LAYER FROM -L- STA 14+50+/- TO STA. 40+50+/-, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS, AND SHIFT TRAFFIC TO THE PHASE II PATTERN (SEE TMP-7 THROUGH 9)

PHASE II

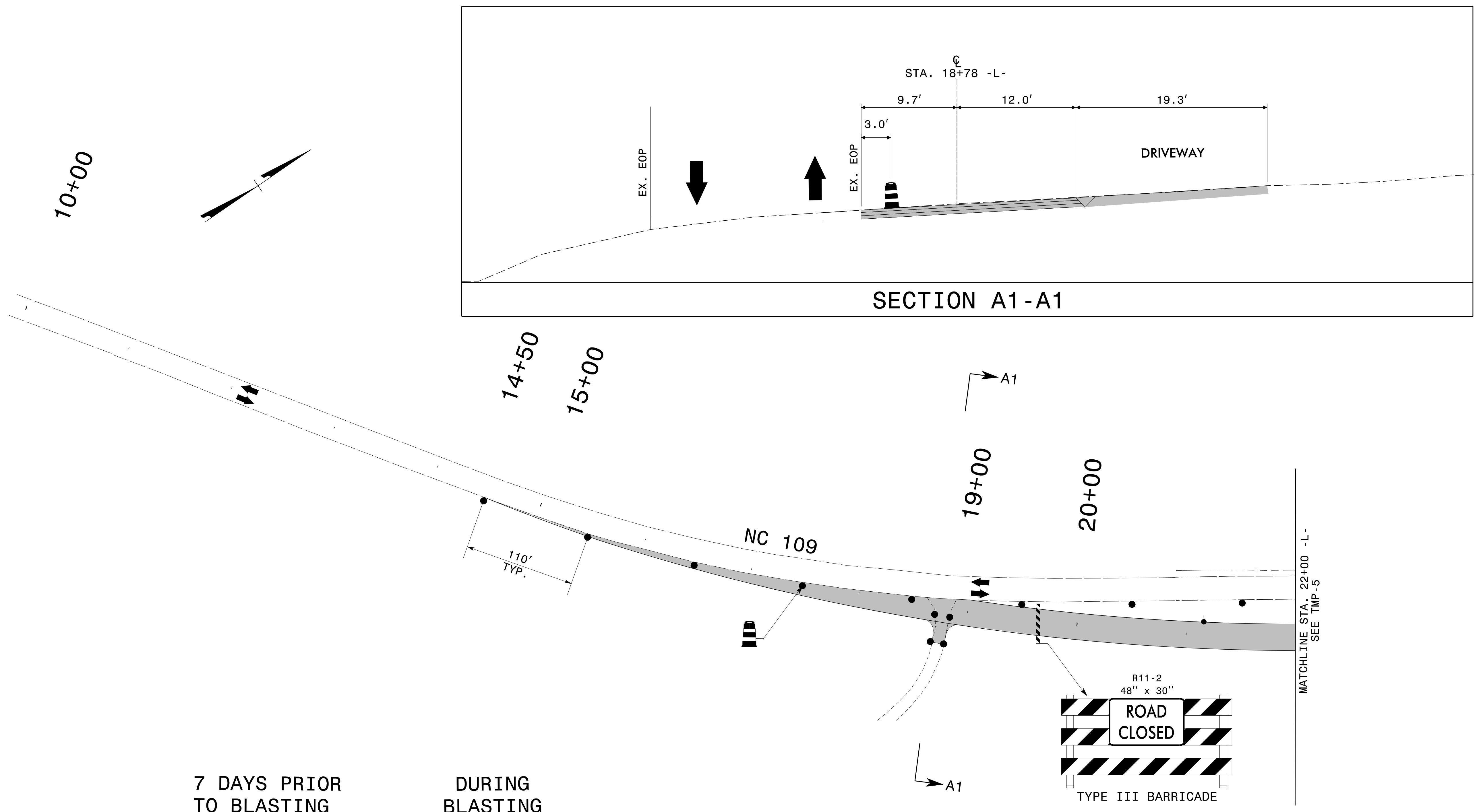
- STEP 1 -- USING RSD 1101.02, SHEET 1, REMOVE EXISTING BRIDGE AND PAVEMENT
- COMPLETE PROPOSED EMBANKMENT (SEE TMP-7 THROUGH 9)
- STEP 2 -- USING RSD 1101.02, SHEET 1, PLACE FINAL LAYER OF SURFACE COURSE, INCLUDING DRIVEWAYS, FINAL MARKINGS, AND MARKERS THROUGHOUT THE PROJECT LIMITS
- STEP 3 -- REMOVE ALL TRAFFIC CONTROL DEVICES.

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TEMPORARY TRAFFIC CONTROL PHASING



7 DAYS PRIOR TO BLASTING

MESSAGE NO. 1	MESSAGE NO. 2
BEGIN	EXPECT
XX-XX-XX	30 MIN
9AM-4PM	DELAYS

CHANGEABLE MESSAGE SIGN

DURING BLASTING

MESSAGE NO. 1	MESSAGE NO. 2
BLASTING	30 MIN
ZONE	DELAYS
2500 FT	9AM-4PM

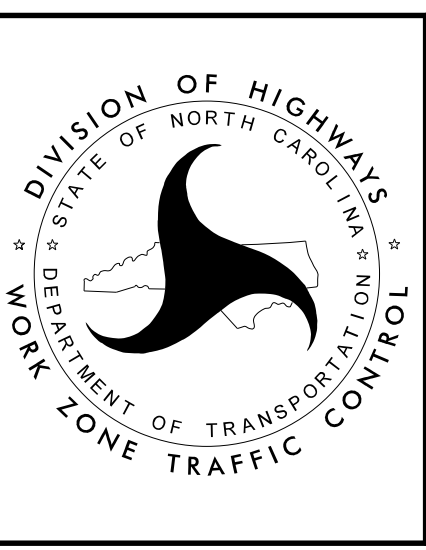
CHANGEABLE MESSAGE SIGN

CMS LOCATED AT GEORGE RATLIFF RD/NC 109 INTERSECTION

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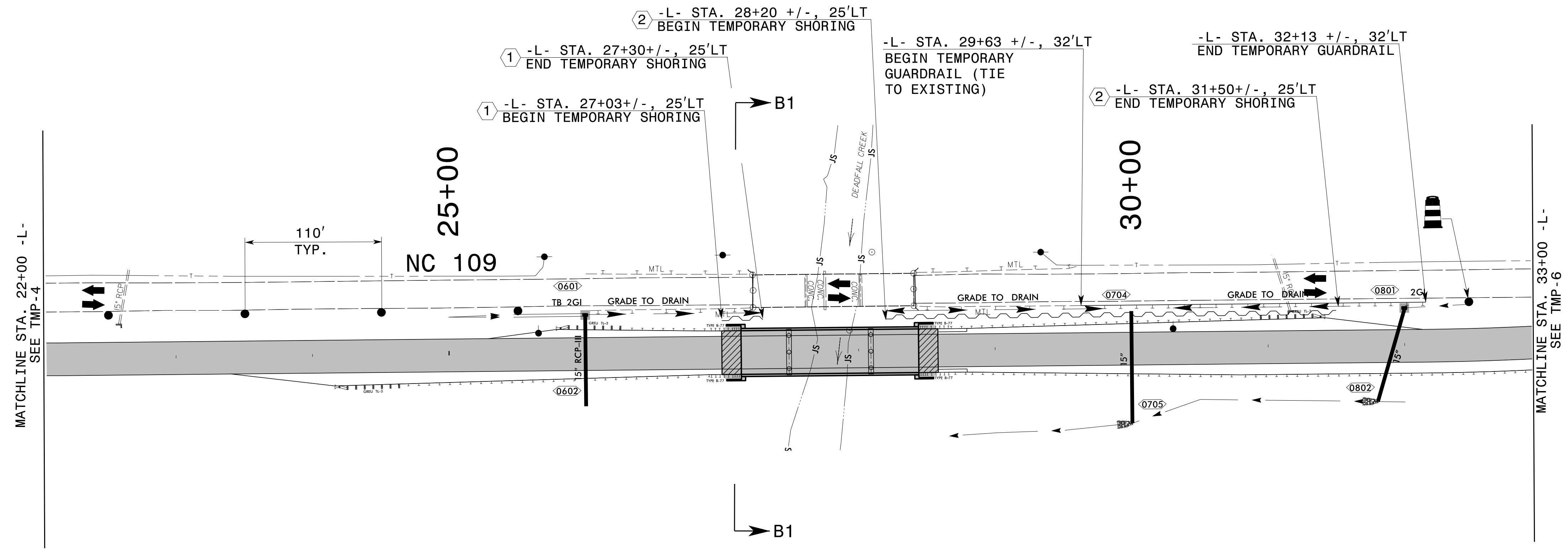
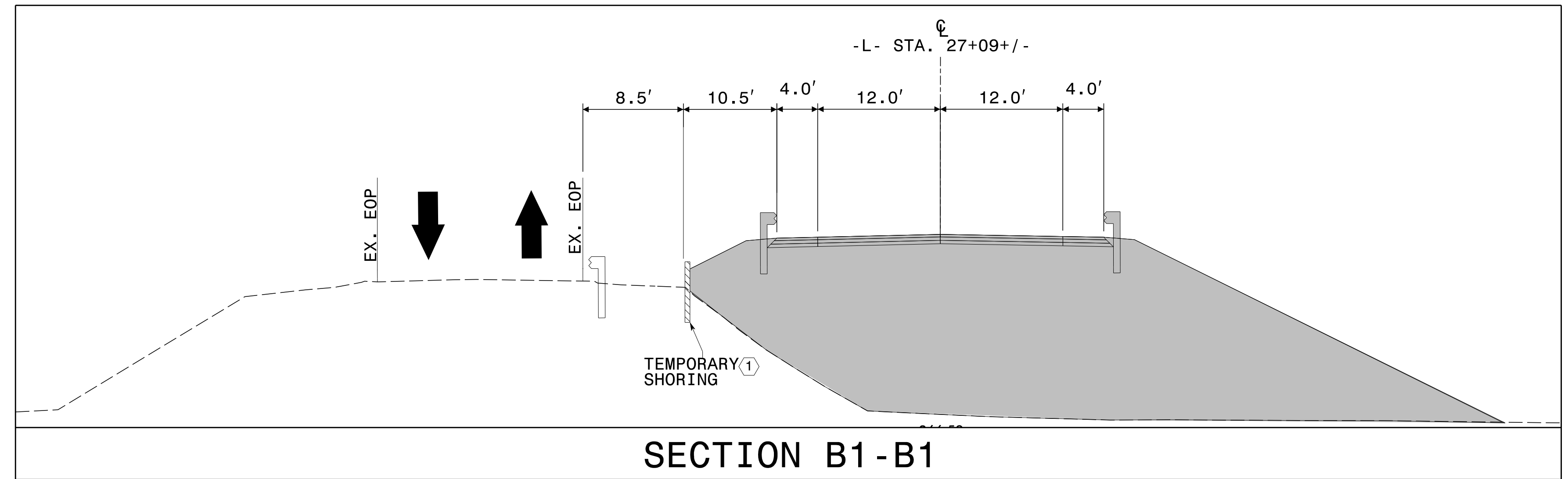
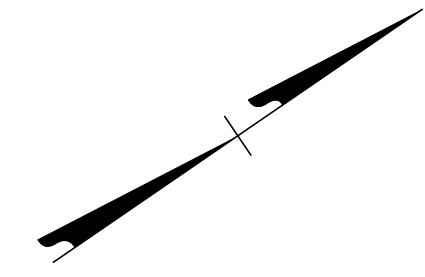
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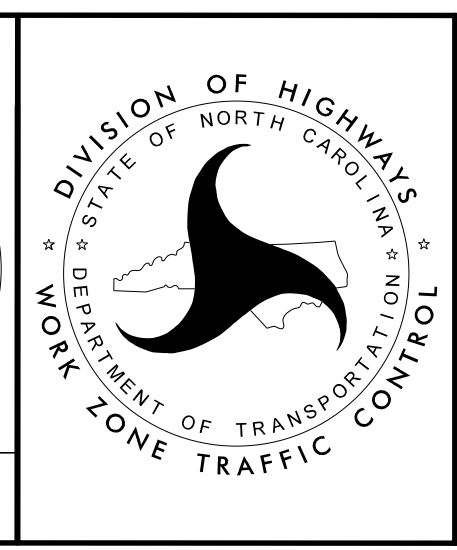
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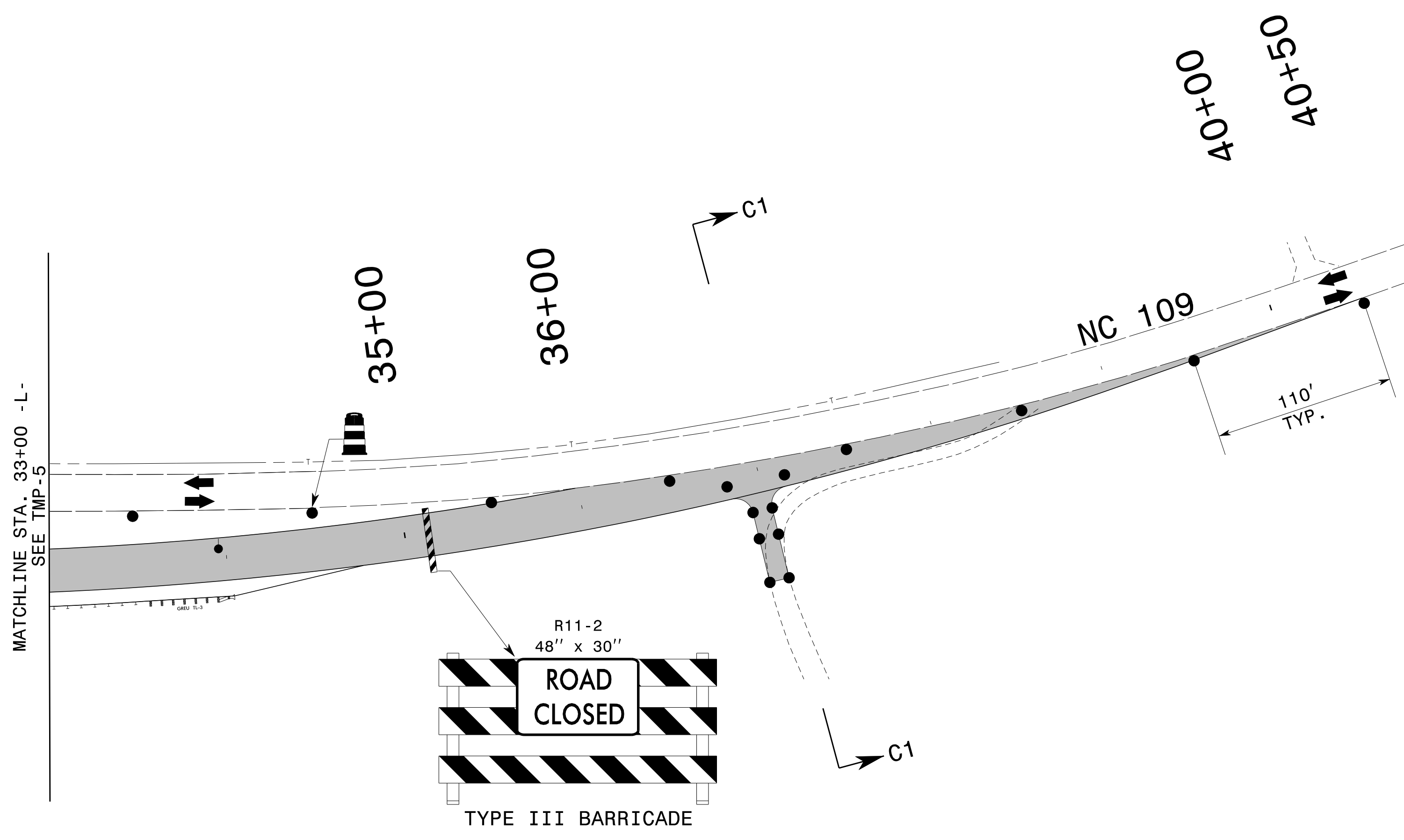
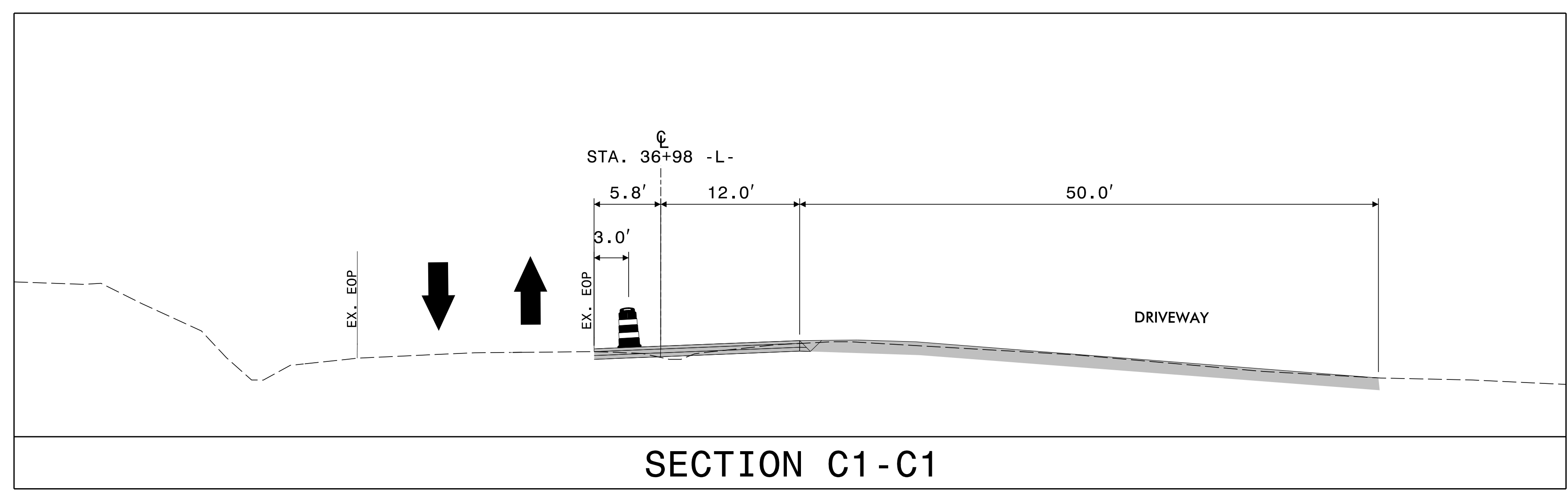
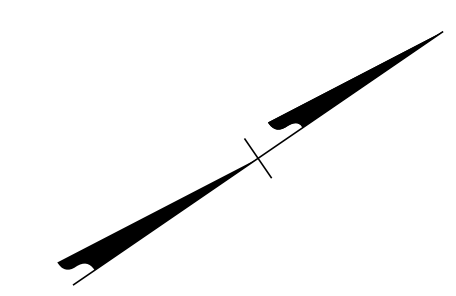
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PHASE I DETAILS

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7 DAYS PRIOR TO BLASTING

MESSAGE NO. 1	MESSAGE NO. 2
BEGIN	EXPECT
XX-XX-XX	30 MIN
9AM-4PM	DELAYS

CHANGEABLE MESSAGE SIGN

DURING BLASTING

MESSAGE NO. 1	MESSAGE NO. 2
BLASTING	30 MIN
ZONE	DELAYS
2500 FT	9AM-4PM

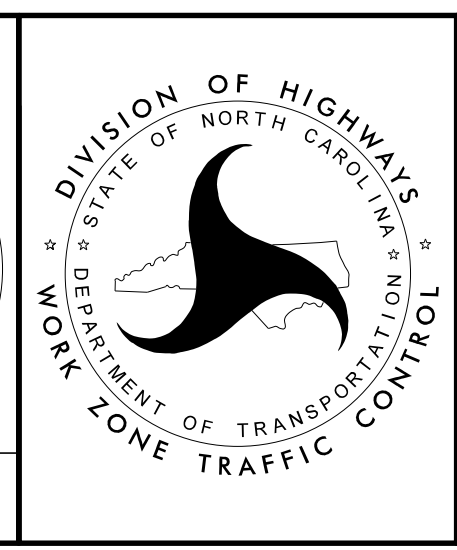
CHANGEABLE MESSAGE SIGN

CMS LOCATED HALF A MILE NORTH OF THE PROJECT

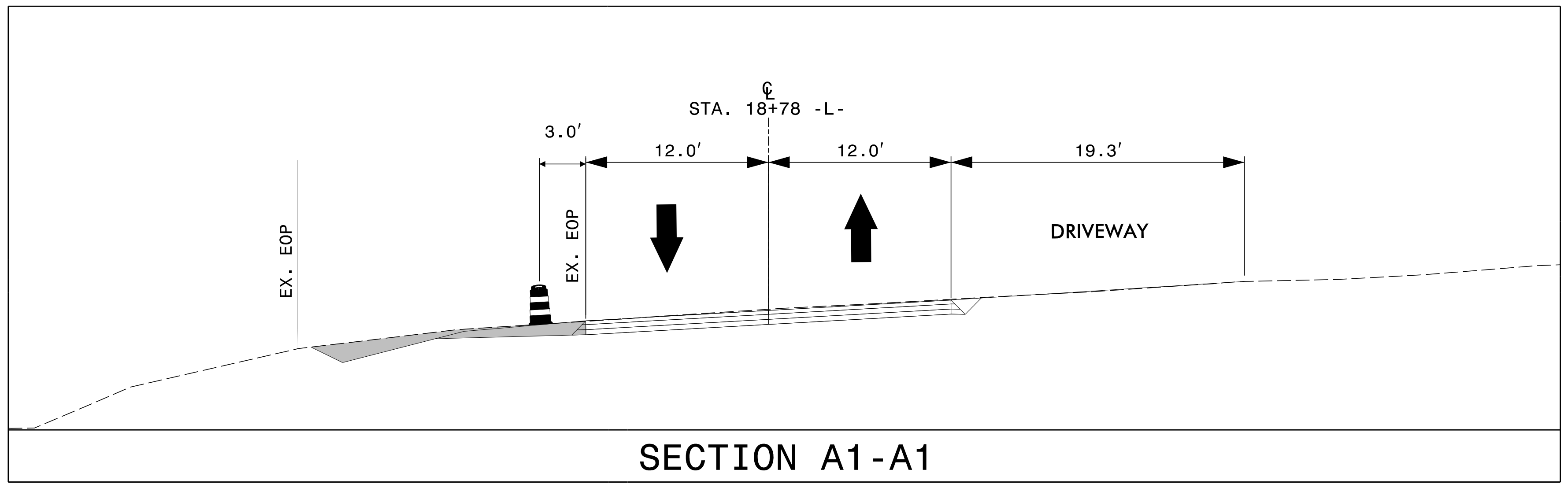
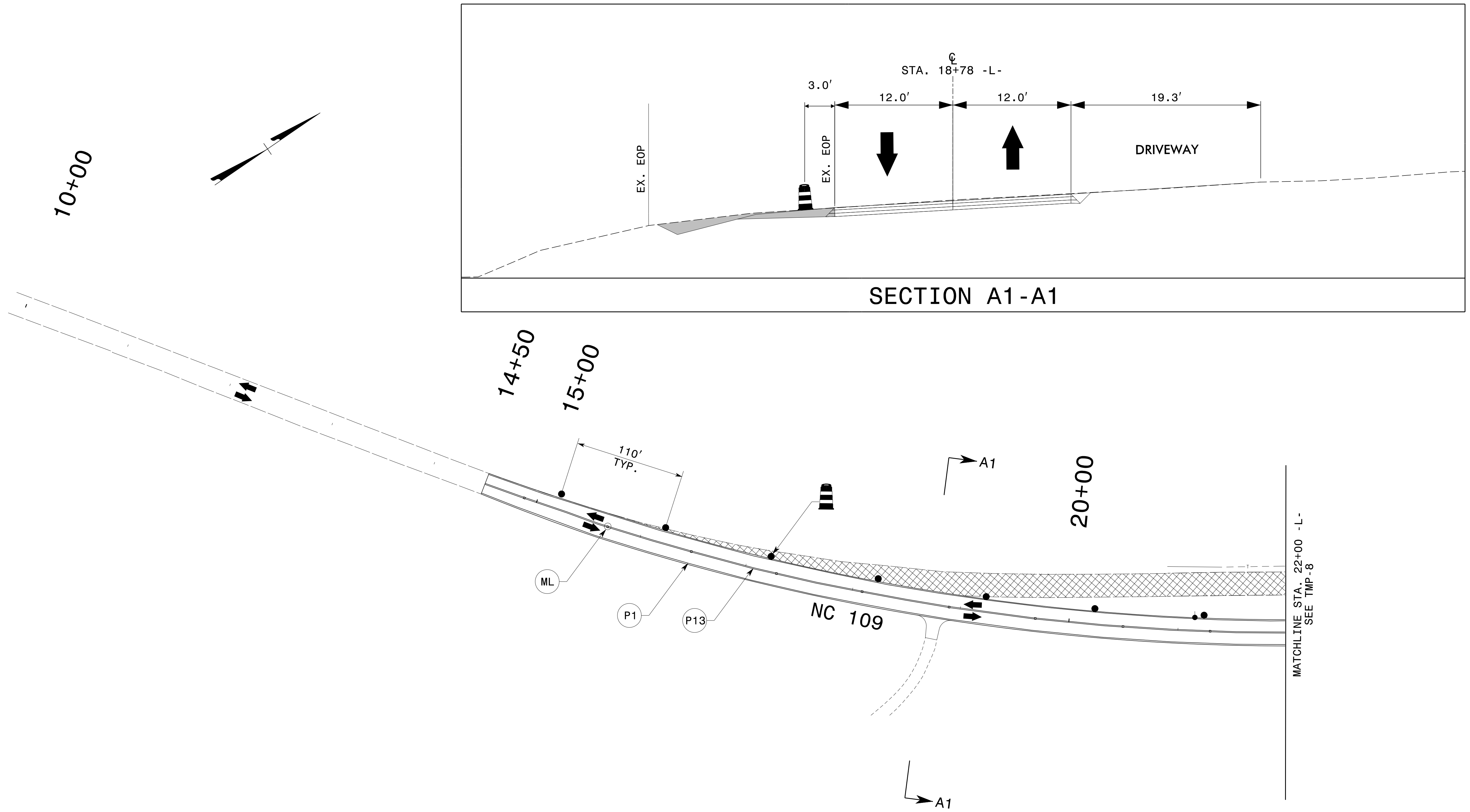
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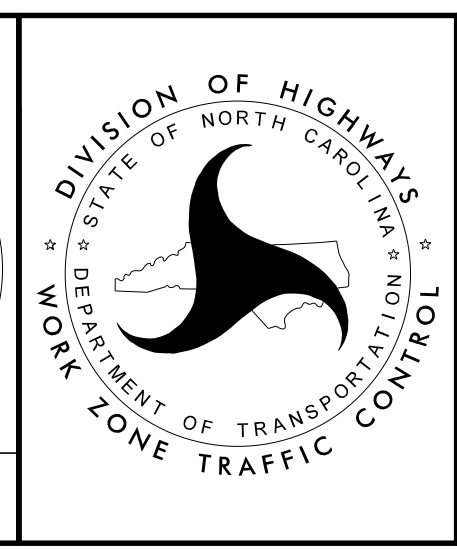
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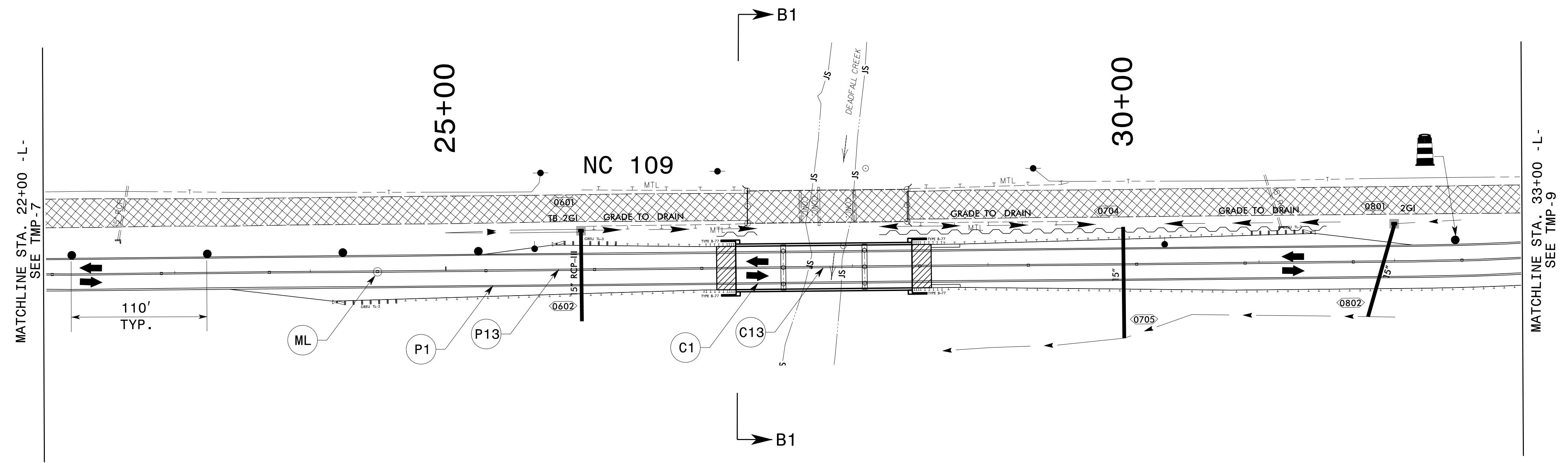
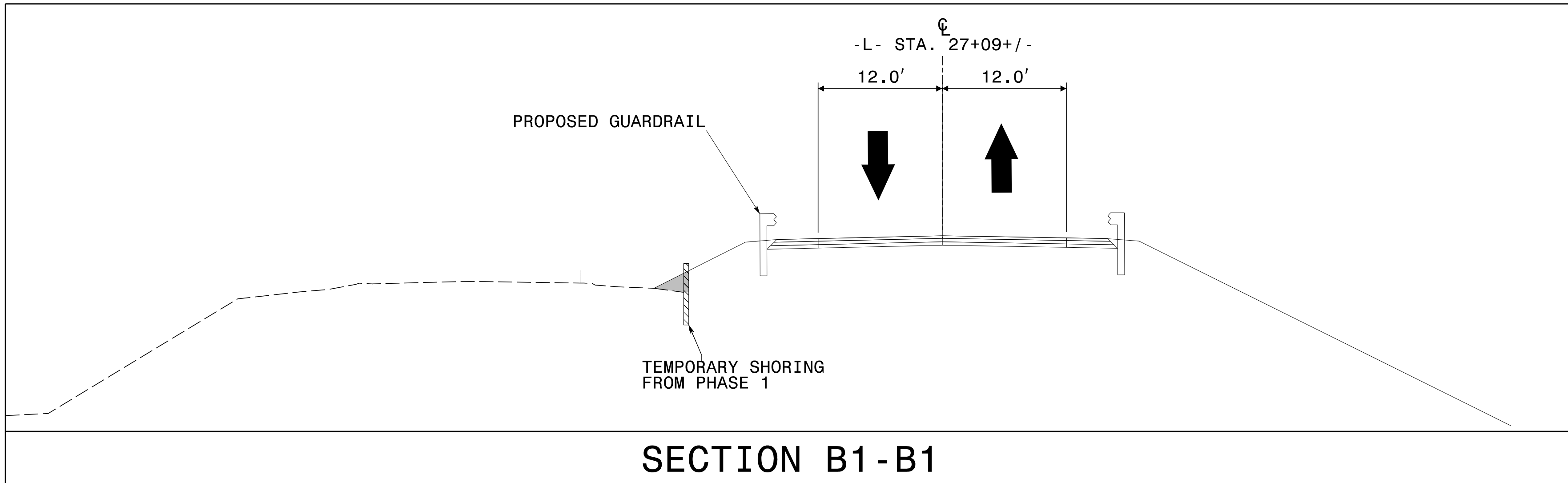
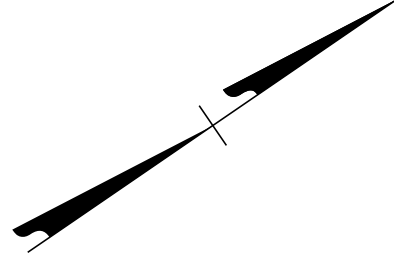
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 User:smackfilu

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DocuSigned by:
40048286261841D
 DATE: 1/19/2021

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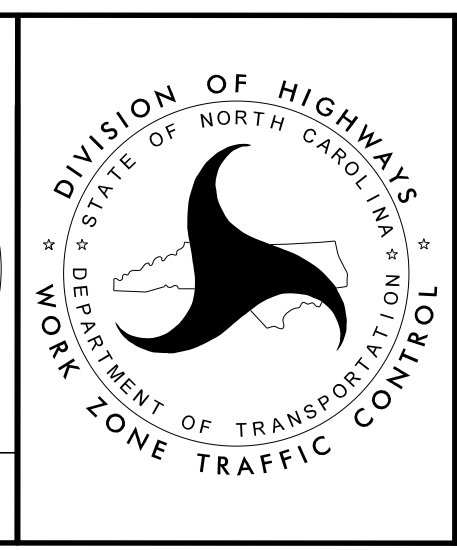
PHASE II DETAILS



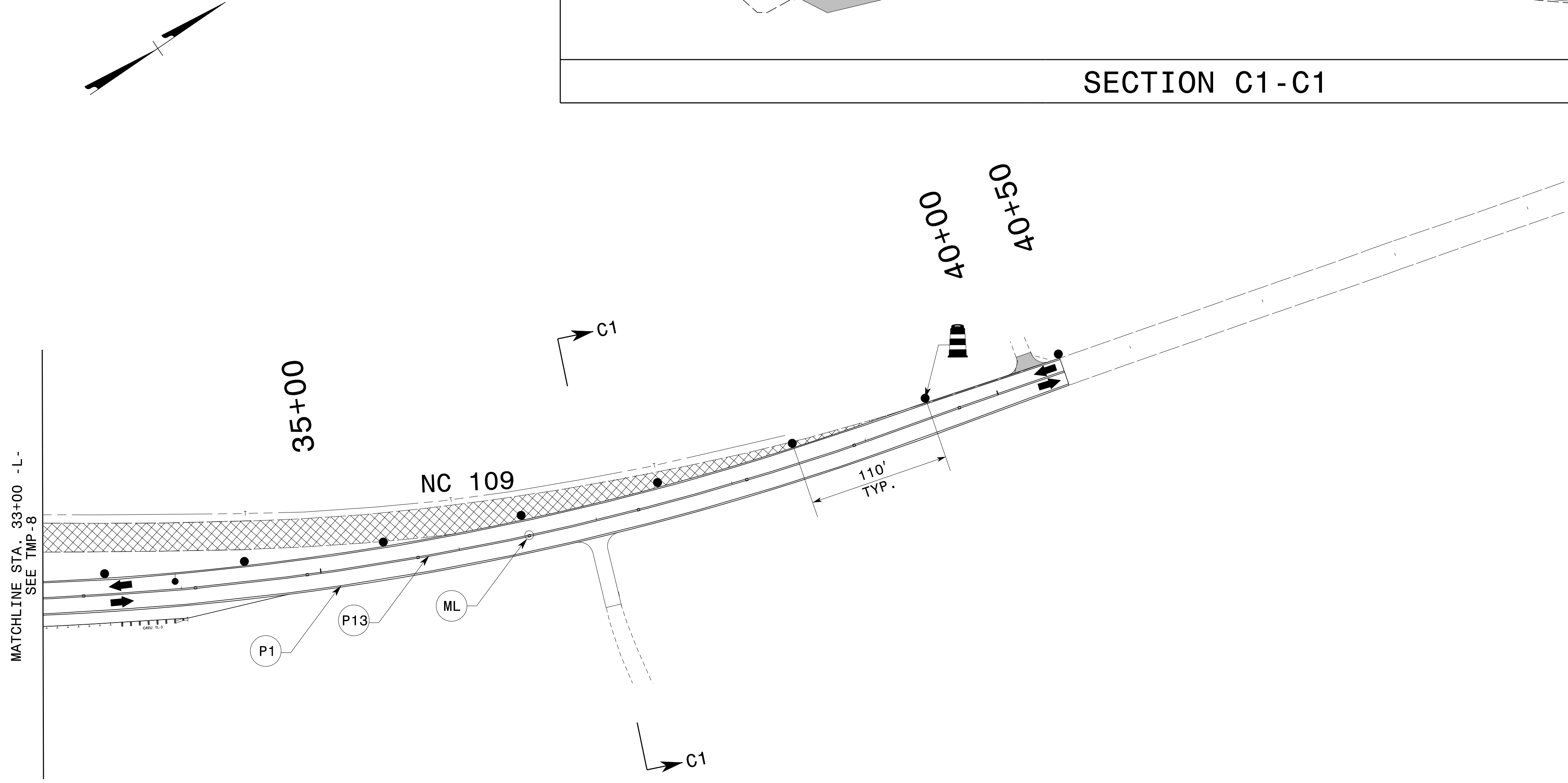
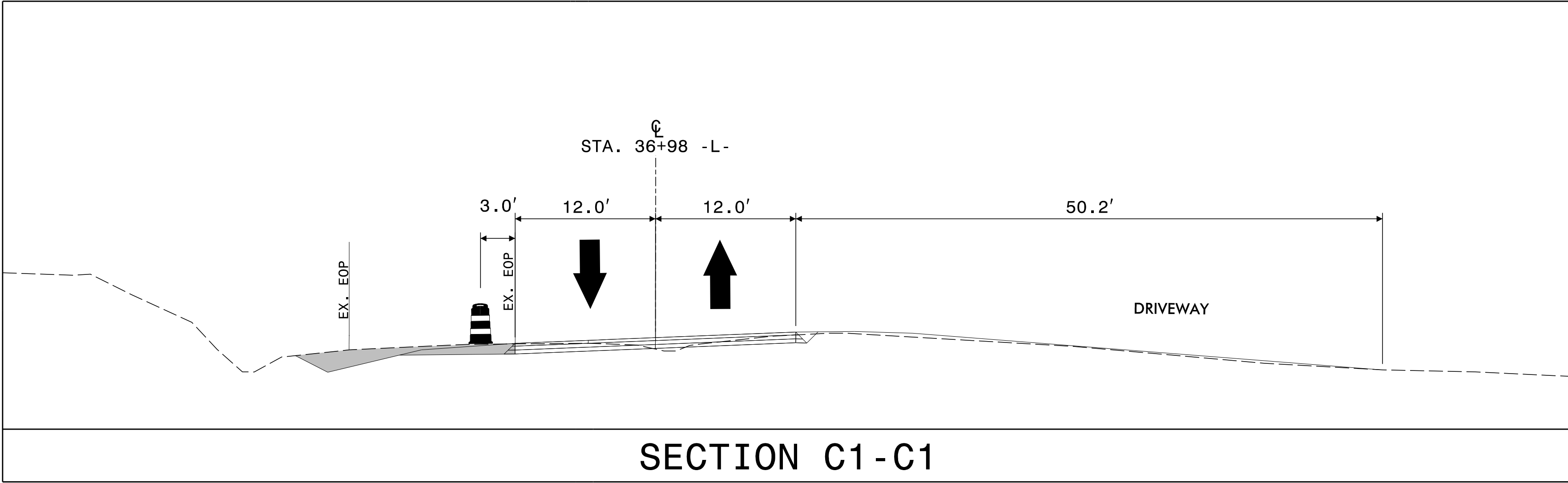
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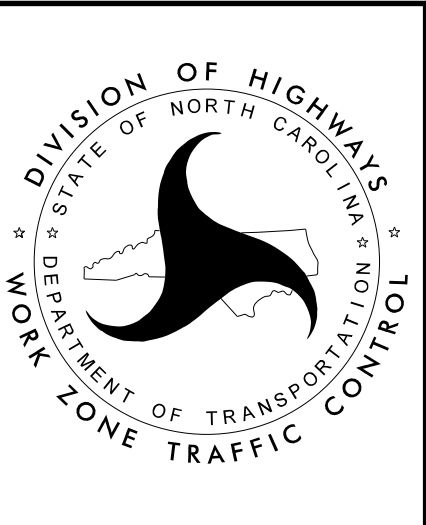
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