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# 99

STATE OF NORTH CAROLINA

STATE PROJECT REFERENCE NO 37857 (MA13063R) & 37645 (MA13025R)

# PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

# McDOWELL COUNTY

SHEET NO.

## ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" -ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURE WORK ZONE VEHICLE ACCESSES
1101.05	WARNING SIGNS FOR BLASTING ZONES
1101.06	TRAFFIC CONTROL PLAN DESIGN TABLES
1101.11	
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONE
1145.01	BARRICADES - TYPE III
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION - REFLECTIVE END TREATMENT
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR - DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.08	PAVEMENT MARKINGS - WORDS & SYMBOLS
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS
1267.01	FLEXIBLE DELINEATOR INSTALLATION
1267.02	FLEXIBLE DELINEATOR SPACING
	FLEXIBLE DELINEATORS - INTERCHANGES
1267.03	LIEVIDIE DELINEMIONO - INTENCHANGES

## INDEX OF SHEETS

	TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, FINAL PAVEMENT MARKING SCHEDULE AND INDEX OF SHEETS
	TCP-2	PROJECT NOTES
	TCP-3 - TCP-11	PHASE I
	TCP-12 - TCP-20	PHASE II
	TCP-21	PHASE III & TEMPORARY PAVEMENT MARKING SCHEDULE
	TCP-22	NC 226 TEMPORARY OFFSITE DETOUR ROUTE
	NCMA - 1	DETAIL DRAWING FOR ADVANCE WARNING WORK ZONE SIGNS
	NCMA-2	SIGN DESIGN FOR CONTRACTORS COMPANY NAME
	PM - 1	FINAL PAVEMENT MARKING SCHEDULE
S	PM-2 - PM-6	FINAL PAVEMENT MARKING PLAN

TITLE

## LEGEND

#### **GENERAL**

DIRECTION OF TRAFFIC FLOW

PROPOSED PVMT. ----- EXIST. PVMT

WORK AREA



REMOVAL OF EXISTING PAVEMENT

#### TRAFFIC CONTROL DEVICES

T TYPE I BARRICADE

TYPE III BARRICADE

FLASHING ARROW PANEL (TYPE C)

─ STATIONARY SIGN

□ PORTABLE SIGN

STATIONARY OR PORTABLE SIGN

WARNING FLAGS

→ CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

FLAGGER

#### PAVEMENT MARKINGS

CRYSTAL PAVEMENT MARKER

YELLOW/YELLOW PAVEMENT MARKER

CRYSTAL/RED PAVEMENT MARKER

PAVEMENT MARKING SYMBOLS

PLAN REVIEWED BY: N.C.D.O.T. DIVISION 13

GREG SHULER DIVISION PROJECT MANAGER



#### PLANS PREPARED BY:

RUMMEL KLEPPER & KAHL, LLP

consulting engineers 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960

**FOR** 

**DIVISION OF HIGHWAYS** 



B. K. SKINNER, P.E. TRAFFIC CONTROL ENGINEER

S. E. ROBERTS, P.E. TRAFFIC CONTROL PROJECT ENGINEER

M. A. COLE TRAFFIC CONTROL PROJECT DESIGN ENGINEER

## GENERAL NOTES

ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVÍCES. MODIFICATIONSMAY ÍNCLUDE; MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES.

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 AS FOLLOWS:

ROAD NAME

DAY AND TIME RESTRICTIONS

NC 226

7:00 A.M. THRU 6:00 P.M. (SUNDAY THRU SATURDAY)

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AS FOLLOWS:

ROAD NAME

NC 226

HOLIDAY

- 1. FOR ANY EVENT THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31ST TO 600 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A SATURDAY OR A SUNDAY, THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
- 3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A SATURDAY OR SUNDAY, THEN BETWEEN THE HOURS OF 6:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- 6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- 7. FOR THANKSGIVING, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF CHRISTMAS.
- 9. FOR LEAF SEASON, THE ENTIRE MONTH OF OCTOBER AND 1ST WEEK IN NOVEMBER, BETWEÉN 7:00 A.M. FRIDAY TO 6:00 P.M. MONDAY.

#### LANE & 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 ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5' (1.5m) OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRÁWING NO. 1101.02, 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, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.
- DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15' (5m) OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.

#### PAVEMENT EDGE DROP OFF REQUIREMENTS

- 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 A DROP-OFF AS FOLLOWS:
  - BACKFILL DROP-OFFS THAT EXCEED 2" (50 mm) ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
  - BACKFILL DROP-OFFS THAT EXCEED 3" (75mm) ON ROADWAYS WITH POSTED SPEED LIMITS OF 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 1.5 INCHES (40mm) IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT (150m) IN ADVANCE AND A MINIMUM OF ONCE EVERY MILE THROUGHOUT THE UNEVEN AREA.

#### NOTES PROJECT

#### TRAFFIC PATTERN ALTERATIONS

J) NOTIFY THE ENGINEER 21 CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

#### SIGNING

K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT (31m) FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK, REMOVE OR COVER ALL ADVANCE WORK ZONE WARNING SIGNS, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE DEPARTMENT.

- L) PROVIDE PERMANENT SIGNING.
- M) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- N) COVER OR REMOVE ALL DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

#### TEMPORARY/FINAL SIGNALS

- P) NOTIFY THE ENGINEER TWO (2) MONTHS BEFORE A TRAFFIC SIGNAL INSTALLATION BY OTHERS IS REQUIRED.
- Q) OTHERS WILL SHIFT AND REVISE ALL SIGNAL HEADS AS DIRECTED UNDER A SEPERATE CONTRACT ADMINSTERED FROM THE 13TH DIVISION TRAFFIC ENGINEERS OFFICE.

#### TRAFFIC CONTROL DEVICES

- R) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.
- S) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT (3m) ON-CENTER IN RADII, AND 3 FT (1m) OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.
- T) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT. CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO THE CHANNELIZING DEVICES.

#### TRAFFIC BARRIER

INSTALL MOVABLE/PORTABLE CONCRETE BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE MOVABLE/PORTABLE CONCRETE 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.

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

V) 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 LESS THAN 50 MPH 50 MPH OR HIGHER

MINIMUM OFFSET 20 FT. 40 FT.

- W) INSTALL MOVABLE/PORTABLE CONCRETE BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE MOVABLE/PORTABLE CONCRETE BARRIER AGAINST THE TRAFFIC FLOW. BEGINNING WITH THE DOWN STREAM SIDE OF TRAFFIC.
- X) INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP CLOSED THE SECTION OF THE ROADWAY UNTIL THE BARRIER CAN BE PLACED OR AFTER BARRRIER IS REMOVED.

#### PAVEMENT MARKINGS AND MARKERS

Y) INSTALL PAVEMENT MARKINGS AND MARKERS ON THE FINAL SURFACE AS FOLLOWS:

> ROAD NAME MARKING

MARKER

PROJ. REFERENCE NO.

37857 & 37645

(MA13063R & MA13025R

SHEET NO.

TCP-2

ALL ROADS THERMOPLASTIC SNOWPLOWABLE RAISED REFLECTIVE

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

MARKING

MARKER

ROAD NAME RAISED REFLECTIVE (TEMPORARY) PAINT 1. ALL ROADS

AA) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

- BB) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN OBLITERATED BY THE END OF EACH DAY'S OPERATION.
- CC) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

#### MISCELLANEOUS

- DD) LOCATE AND CONSTRUCT PROPOSED CURB CUT FOR FUTURE WHEELCHAIR RAMPS AND/OR PROPOSED WHEELCHAIR RAMPS AS SHOWN IN ROADWAY STANDARD DRAWING 848.05 AND AS APPROVED OR DIRECTED BY THE ENGINEER.
- EE) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH INTERSECTIONS.
- FF) ANY GUARDRAIL REMOVED WILL BE REPLACED BEFORE TRAFFIC IS RESTORED TO ITS ORIGINAL TRAFFIC PATTERN.
- GG) WEDGE ALONG NC 226 PROPOSED WIDENING TO PREVENT PONDING OF WATER ADJACENT TO AN OPEN TRAVEL LANE AS DIRECTED AND APPROVED BY THE ENGINEER.

## LOCAL NOTES

1. DO NOT STOP TRAFFIC FOR MORE THAN 10 MINUTES AS FOLLOWS:

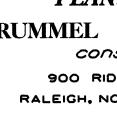
OPERATION

ROAD NAME

SHIFTING TRAFFIC AND ANY OPERATION THAT REQUIRES TRAFFIC TO BE STOPPED

NC 226

- 2. INSTALL PROPOSED DRAINAGE PIPES LOCATED ACROSS NC 226 ONLY DURING THE HOURS OF 6:00 P.M. THROUGH 7:00 A.M. (SUNDAY THROUGH SATURDAY).
- 3. PROPOSED CONSTRUCTION ALONG THE I-40 EASTBOUND/WESTBOUND RAMPS AND LOOPS AT NC 226 SHALL BE CONSTRUCTED BETWEEN THE HOURS OF 6:00 P.M. THROUGH 7:00 A.M. (SUNDAY THROUGH SATURDAY).

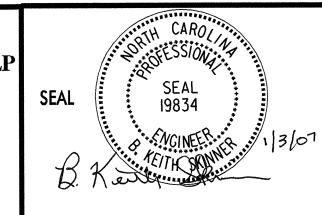


#### PLANS PREPARED BY:

#### RUMMEL KLEPPER & KAHL, LLP consulting engineers

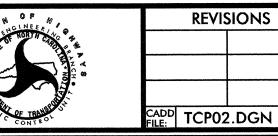
900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960

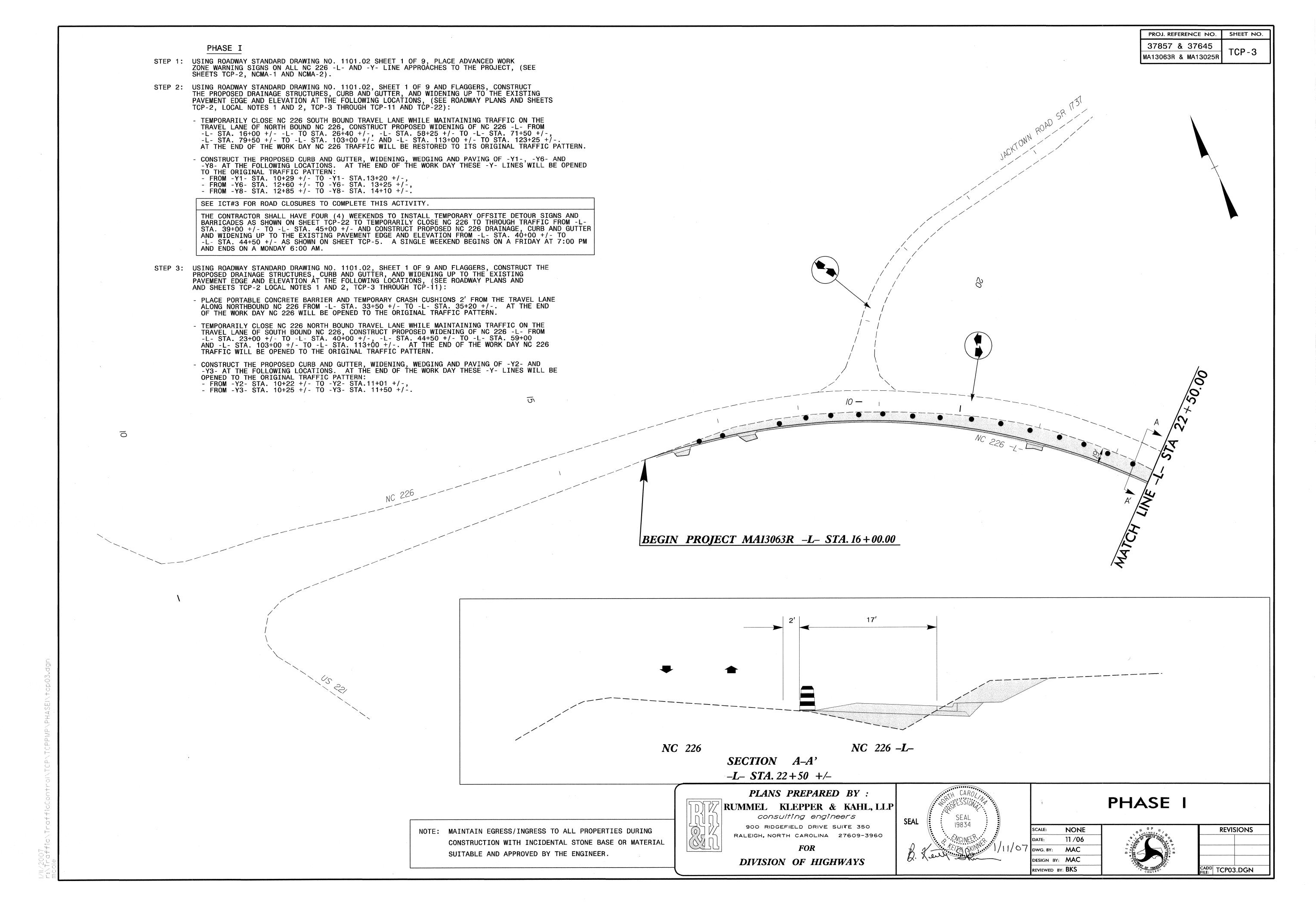
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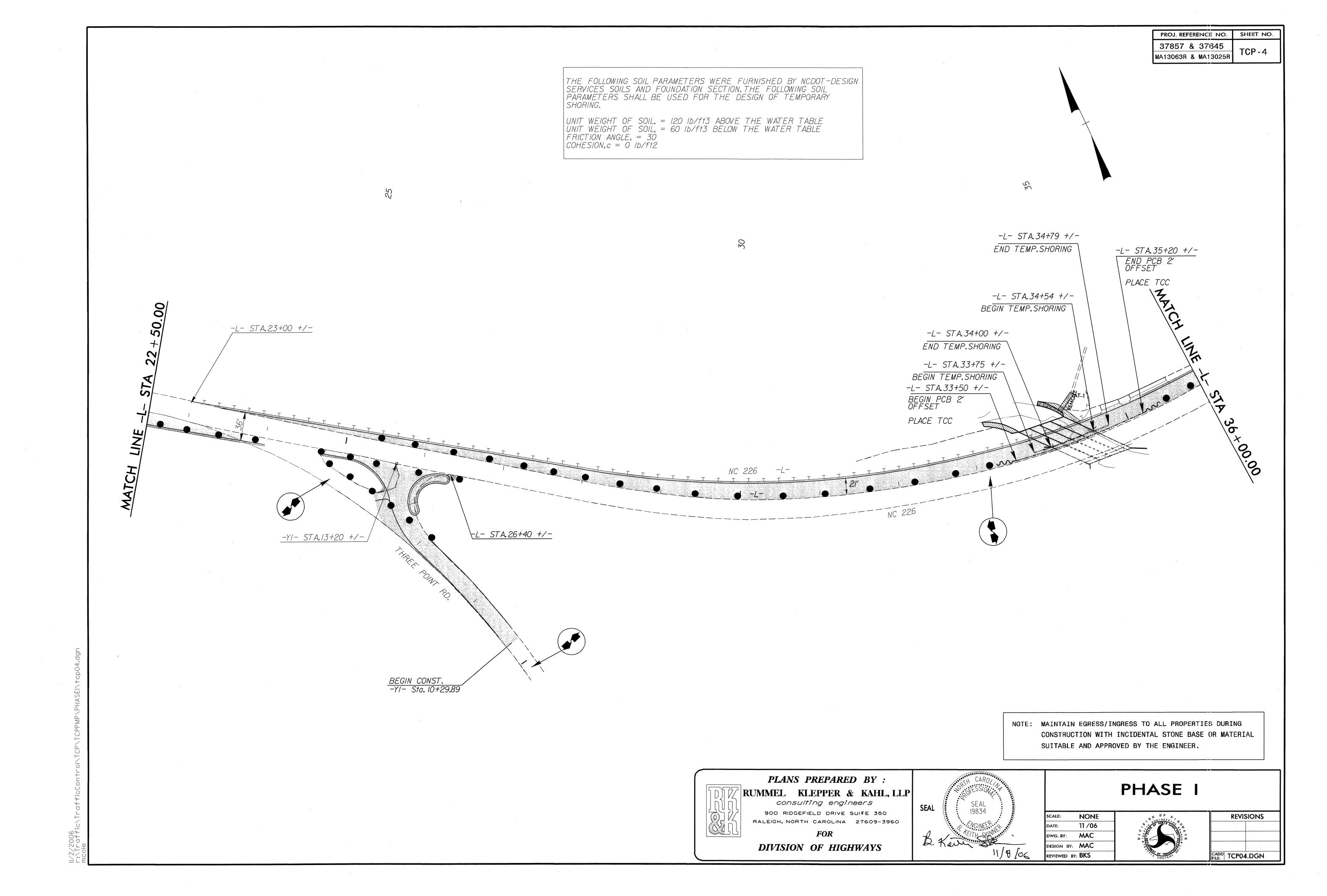


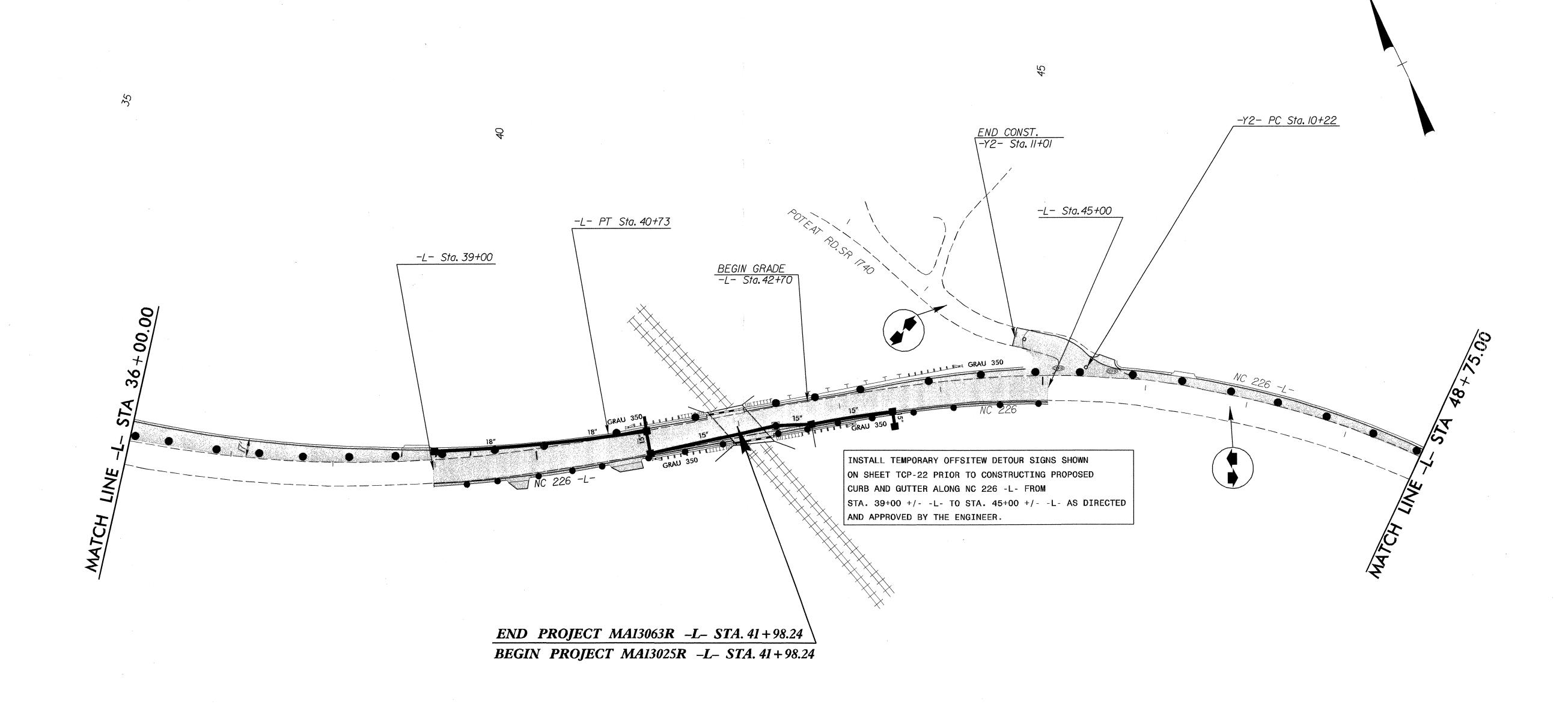
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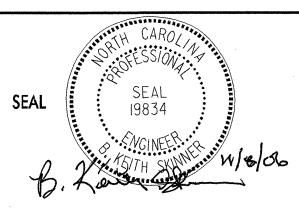
#### PLANS PREPARED BY:

#### RUMMEL KLEPPER & KAHL, LLP consulting engineers

900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960

**FOR** 

DIVISION OF HIGHWAYS

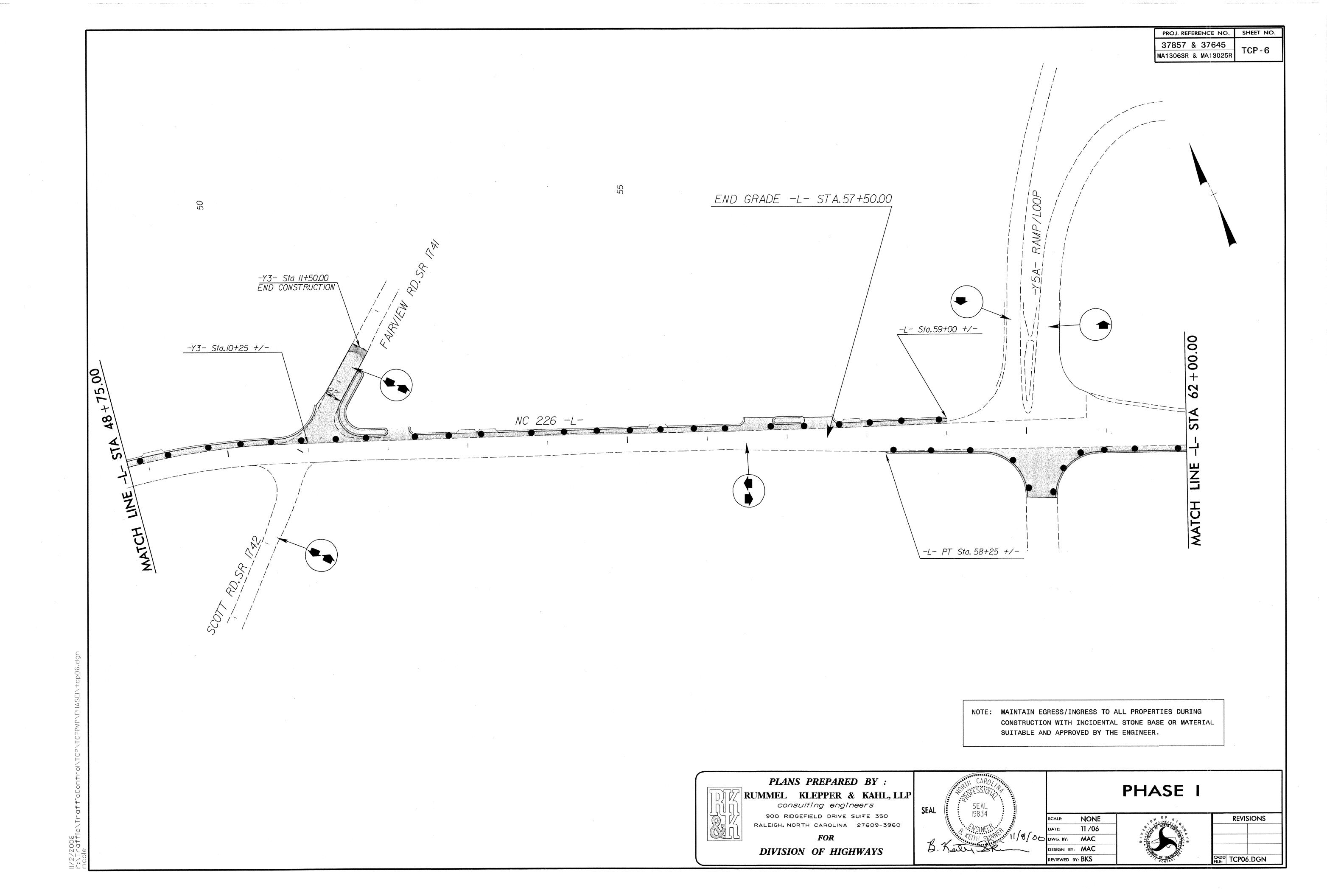


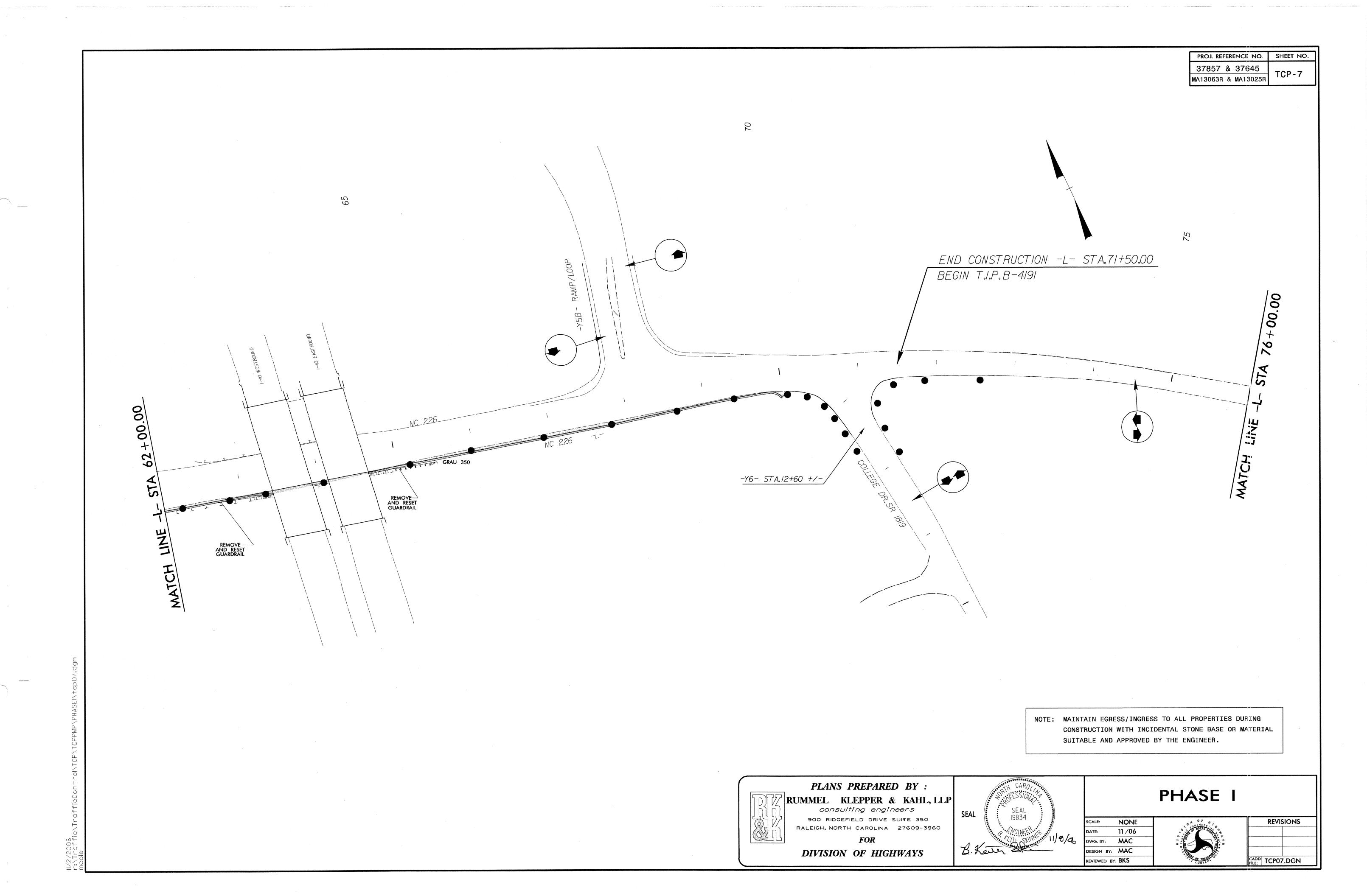
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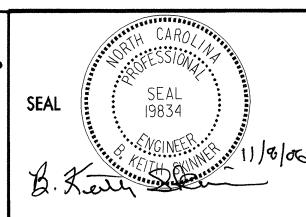


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RUMMEL KLEPPER & KAHL, LLP consulting engineers 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960

**FOR** 

**DIVISION OF HIGHWAYS** 



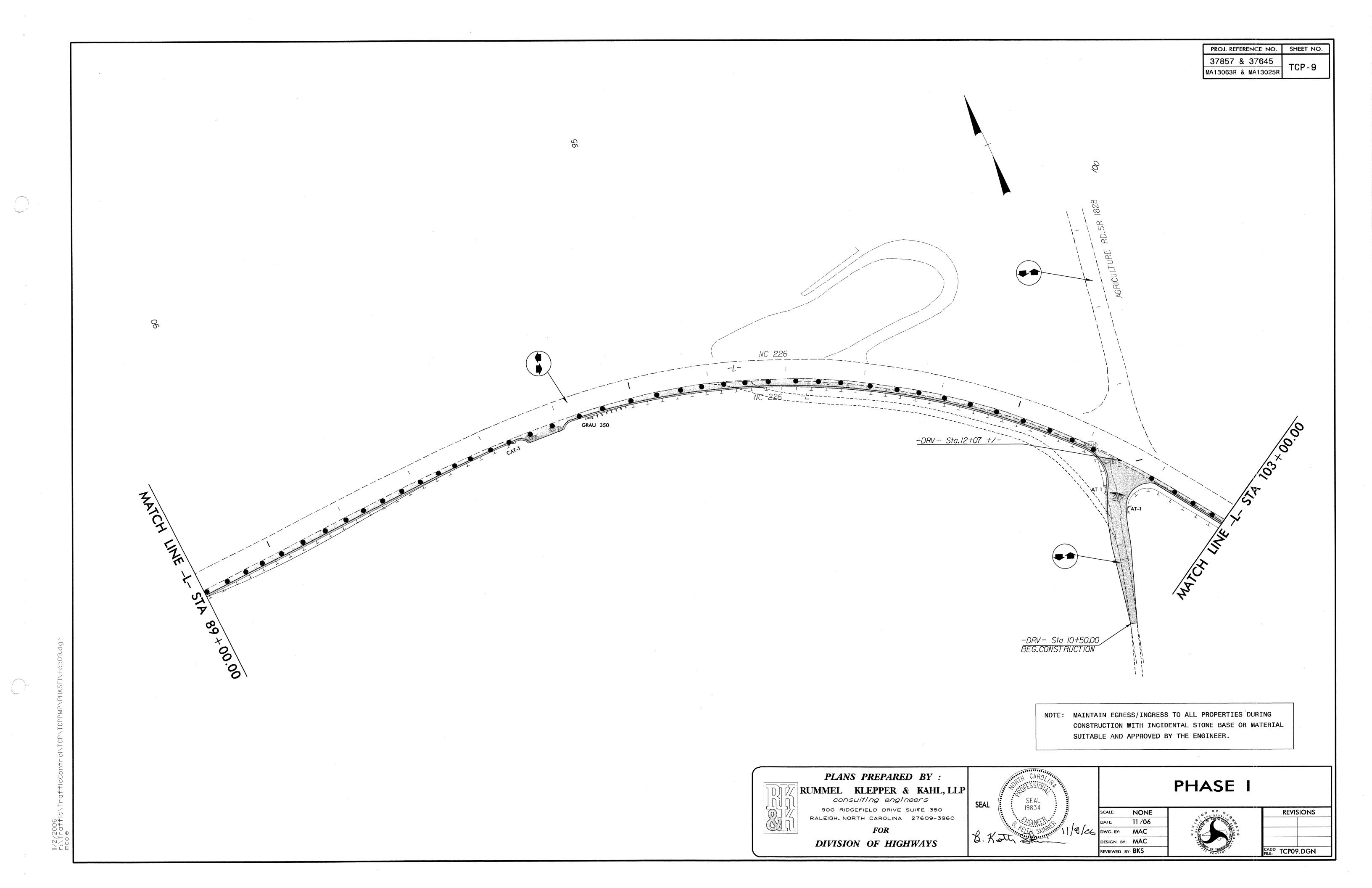
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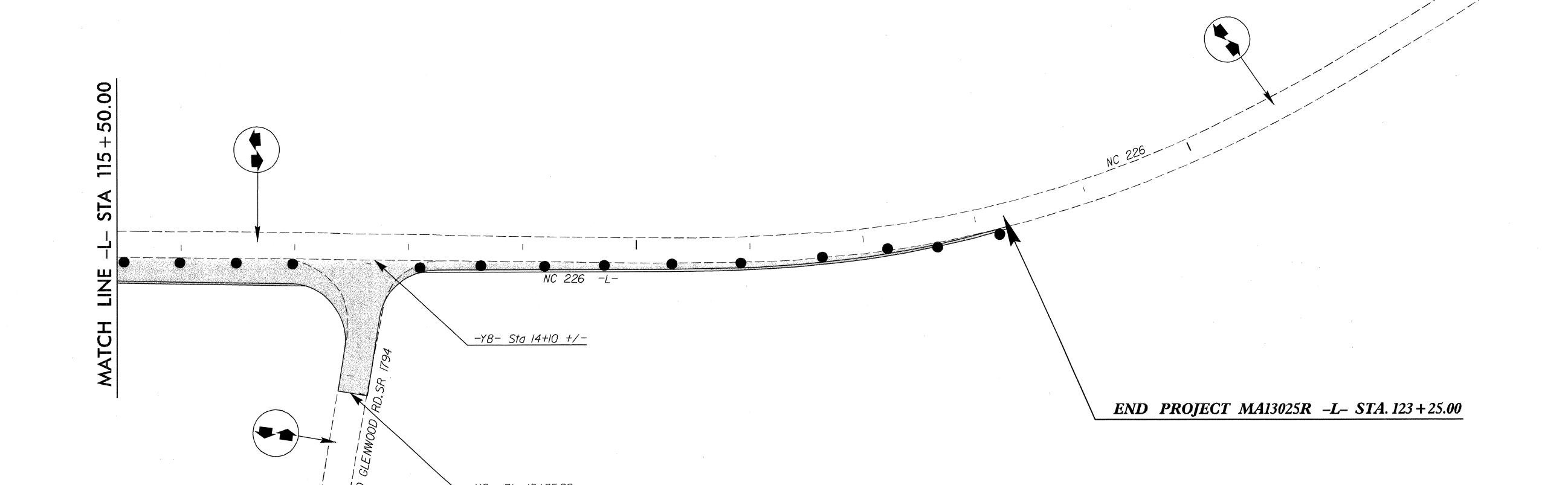
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**FOR** 

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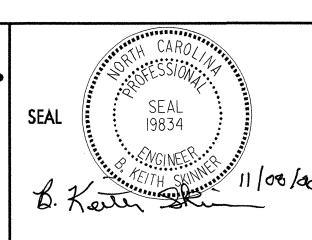
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## PLANS PREPARED BY: RUMMEL KLEPPER & KAHL, LLP consulting engineers

900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 **FOR** 

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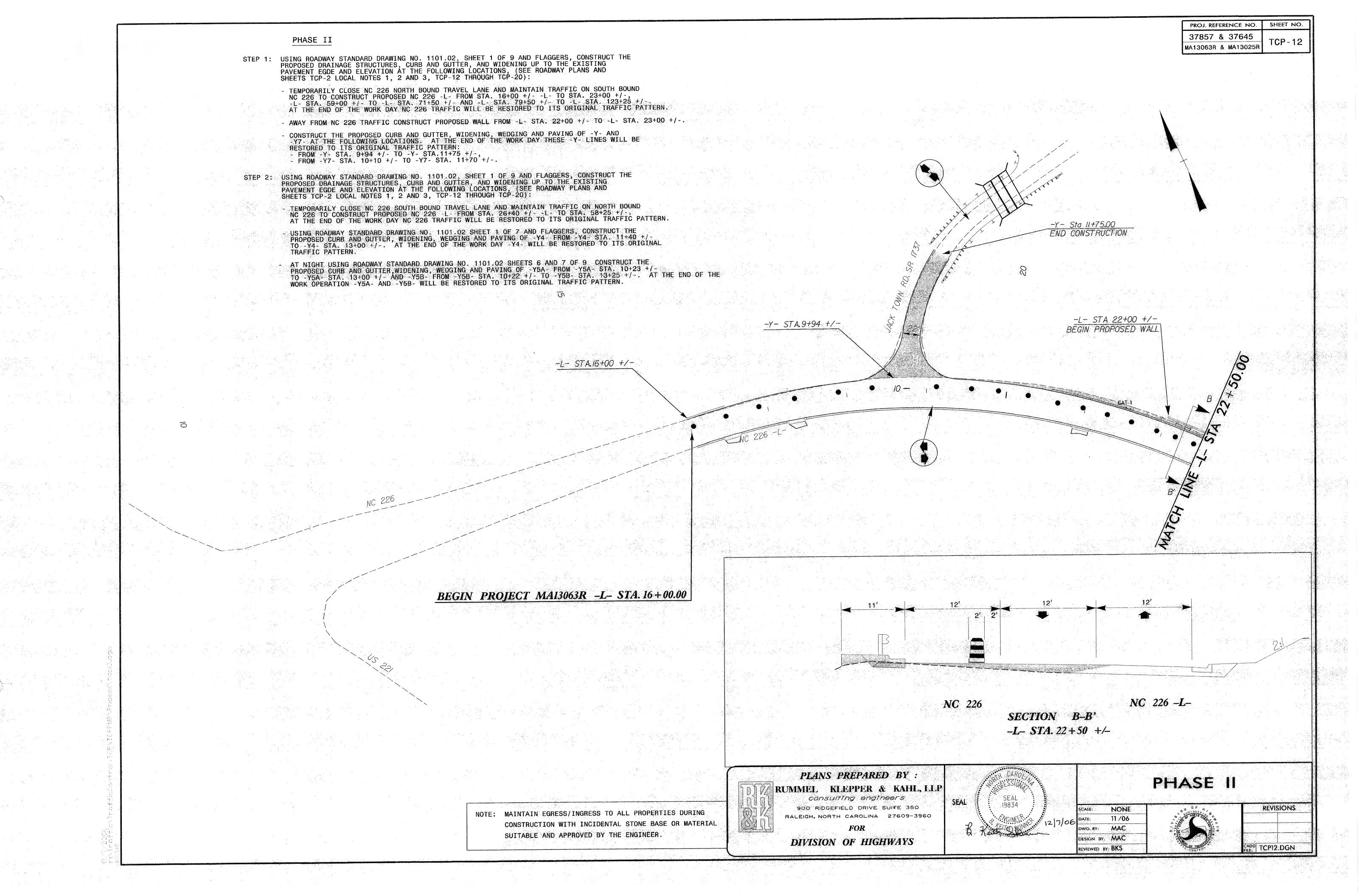


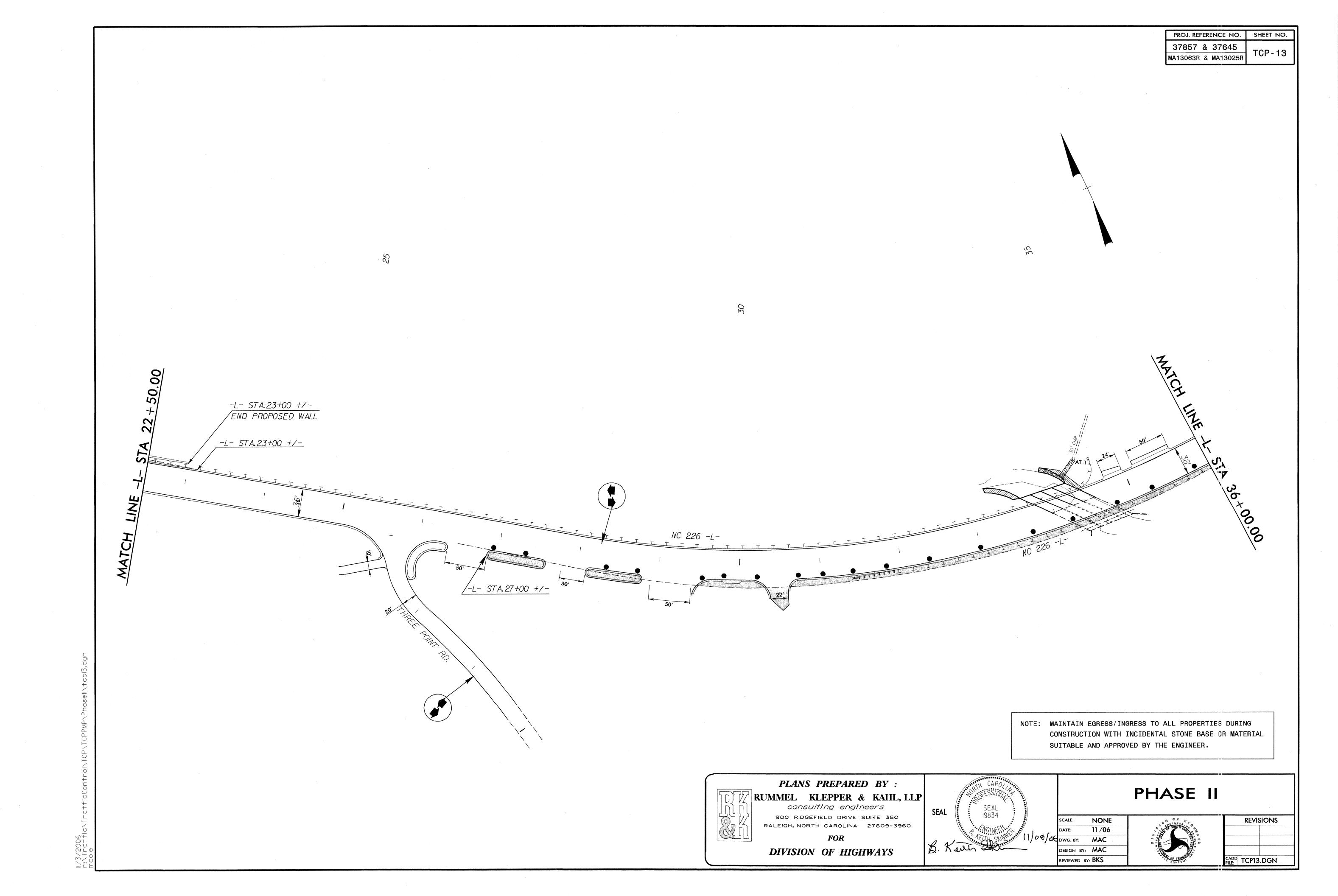
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TCP-14 MA13063R & MA13025F INSTALL TEMPORARY OFFSITEW DETOUR SIGNS SHOWN ON SHEET TCP-22 PRIOR TO CONSTRUCTING PROPOSED CURB AND GUTTER ALONG NC 226 -L- FROM STA. 39+00 +/- -L- TO STA. 45+00 +/- -L- AS DIRECTED AND APPROVED BY THE ENGINEER. BEGIN GRADE
-L- Sta. 42+70.00 END PROJECT MA13063R -L- STA. 41 + 98.24 BEGIN PROJECT MA13025R -L- STA. 41 + 98.24 NOTE: MAINTAIN EGRESS/INGRESS TO ALL PROPERTIES DURING CONSTRUCTION WITH INCIDENTAL STONE BASE OR MATERIAL SUITABLE AND APPROVED BY THE ENGINEER. PLANS PREPARED BY: PHASE II RUMMEL KLEPPER & KAHL, LLP

consulting engineers
900 RIDGEFIELD DRIVE SUITE 350

RALEIGH, NORTH CAROLINA 27609-3960

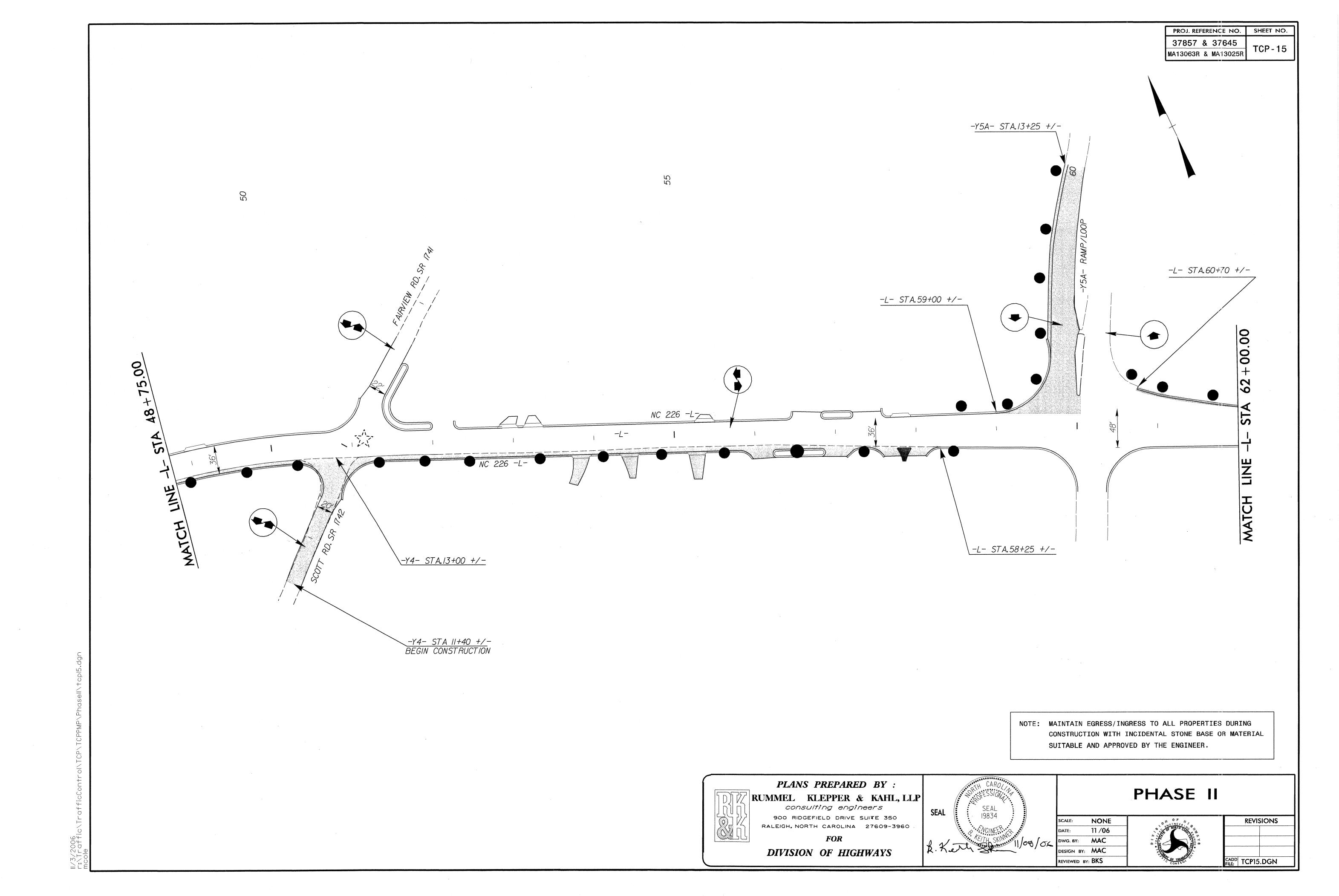
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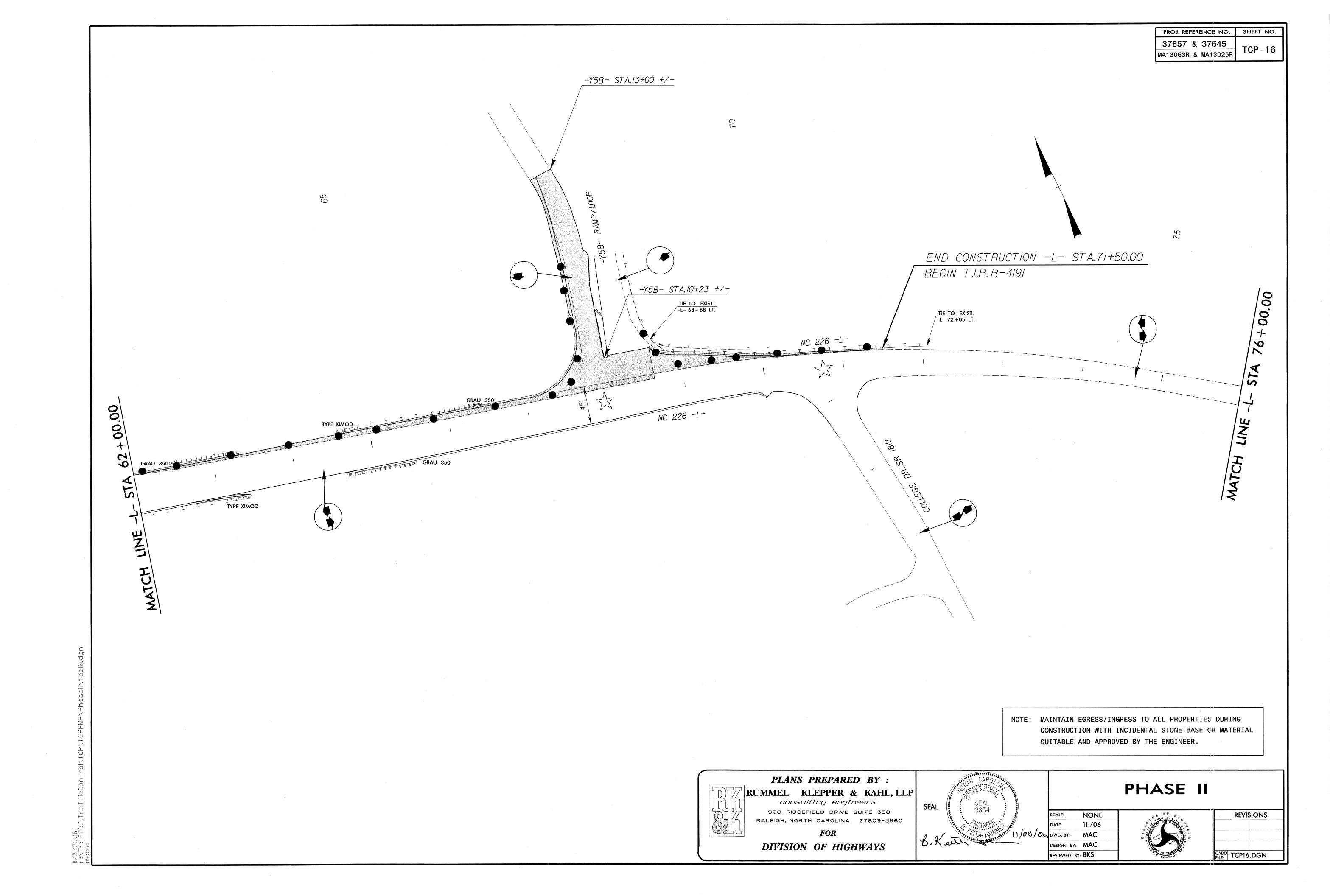
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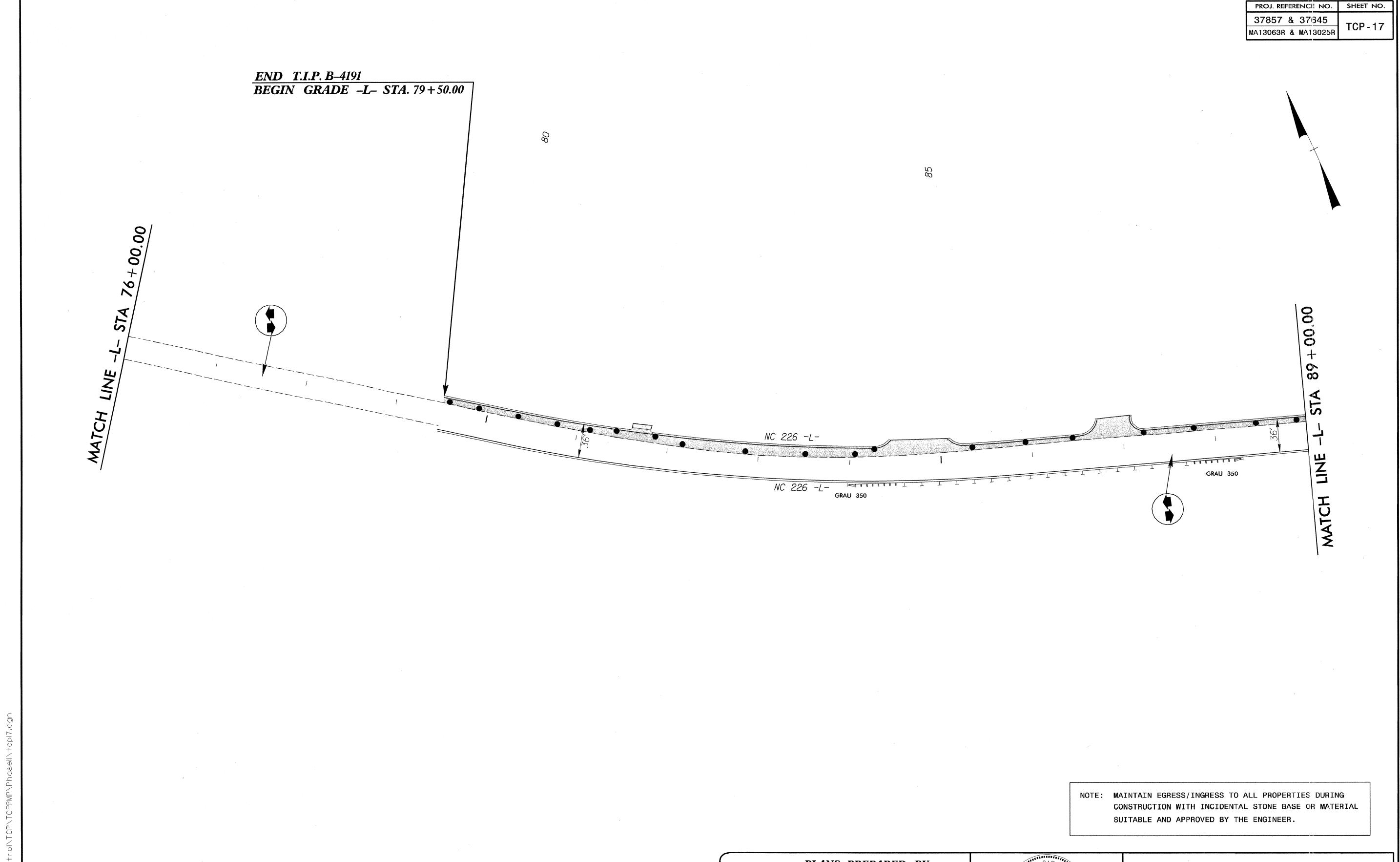
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# PLANS PREPARED BY: RUMMEL KLEPPER & KAHL, LLP

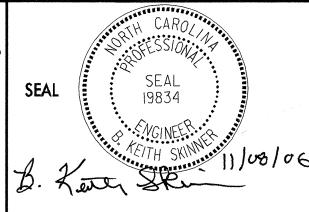
consulting engineers

900 RIDGEFIELD DRIVE SUITE 350

RALEIGH, NORTH CAROLINA 27609-3960

DIVISION OF HIGHWAYS

**FOR** 



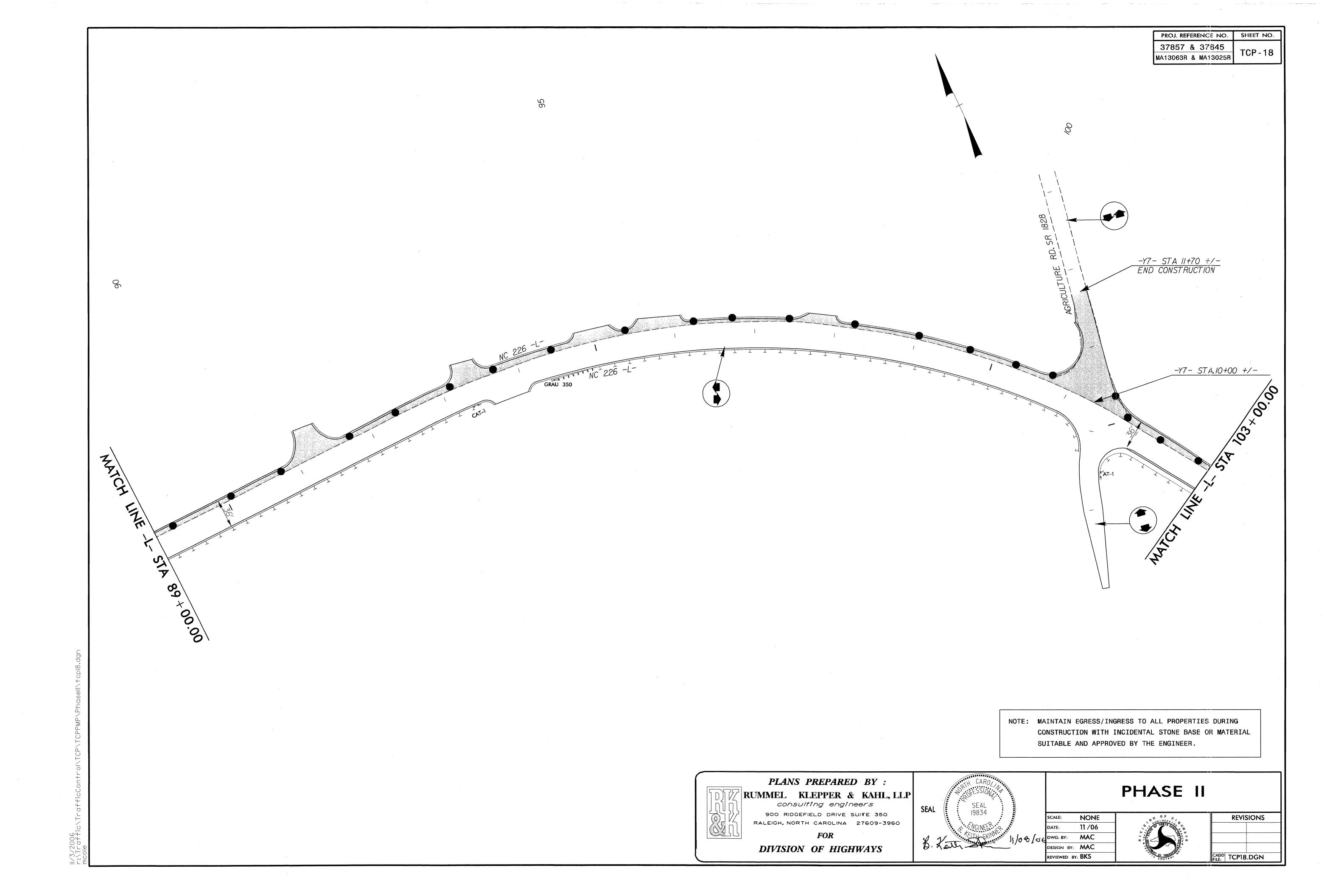
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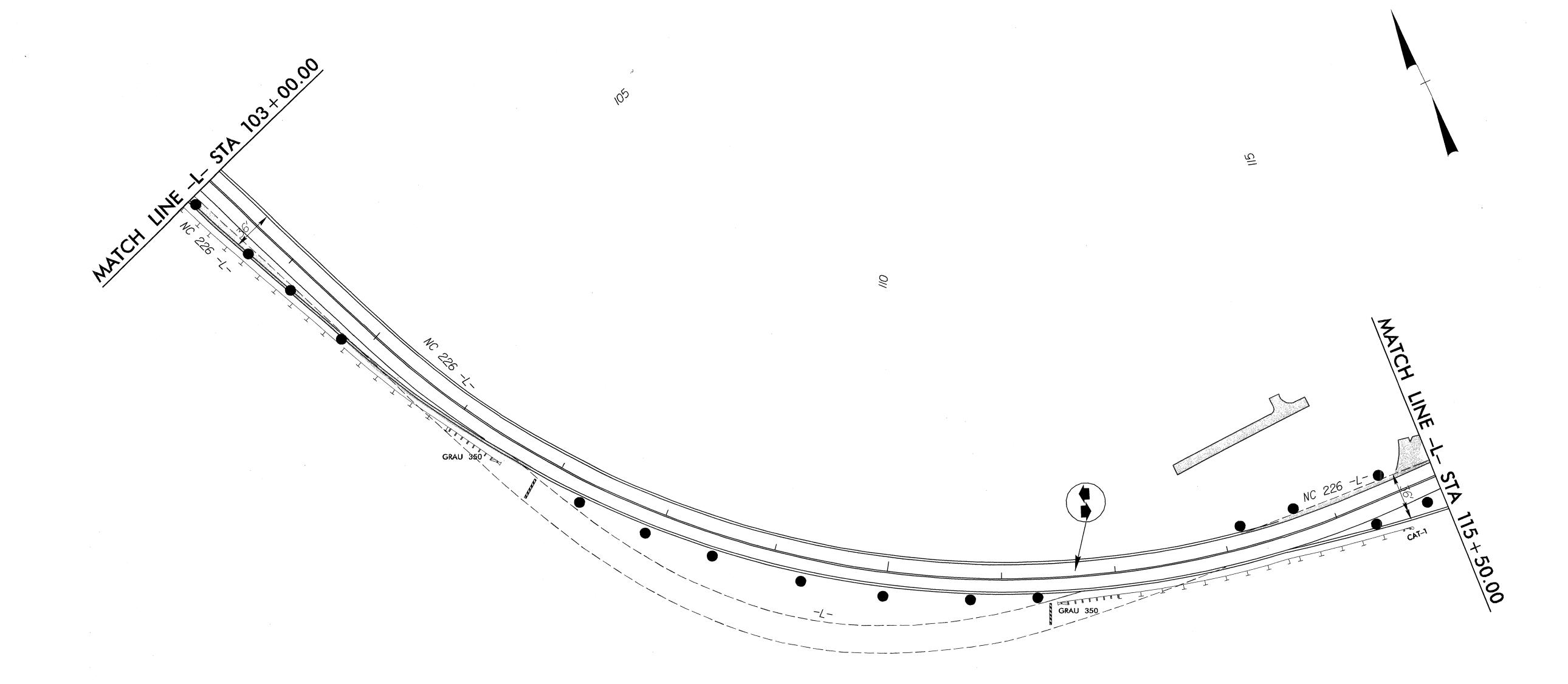
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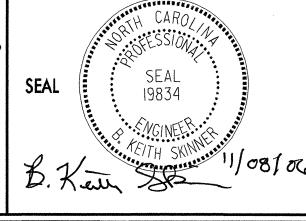
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#### PLANS PREPARED BY: RUMMEL KLEPPER & KAHL, LLP

consulting engineers 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 **FOR** 

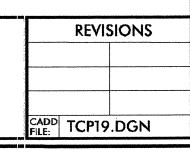
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## PHASE II

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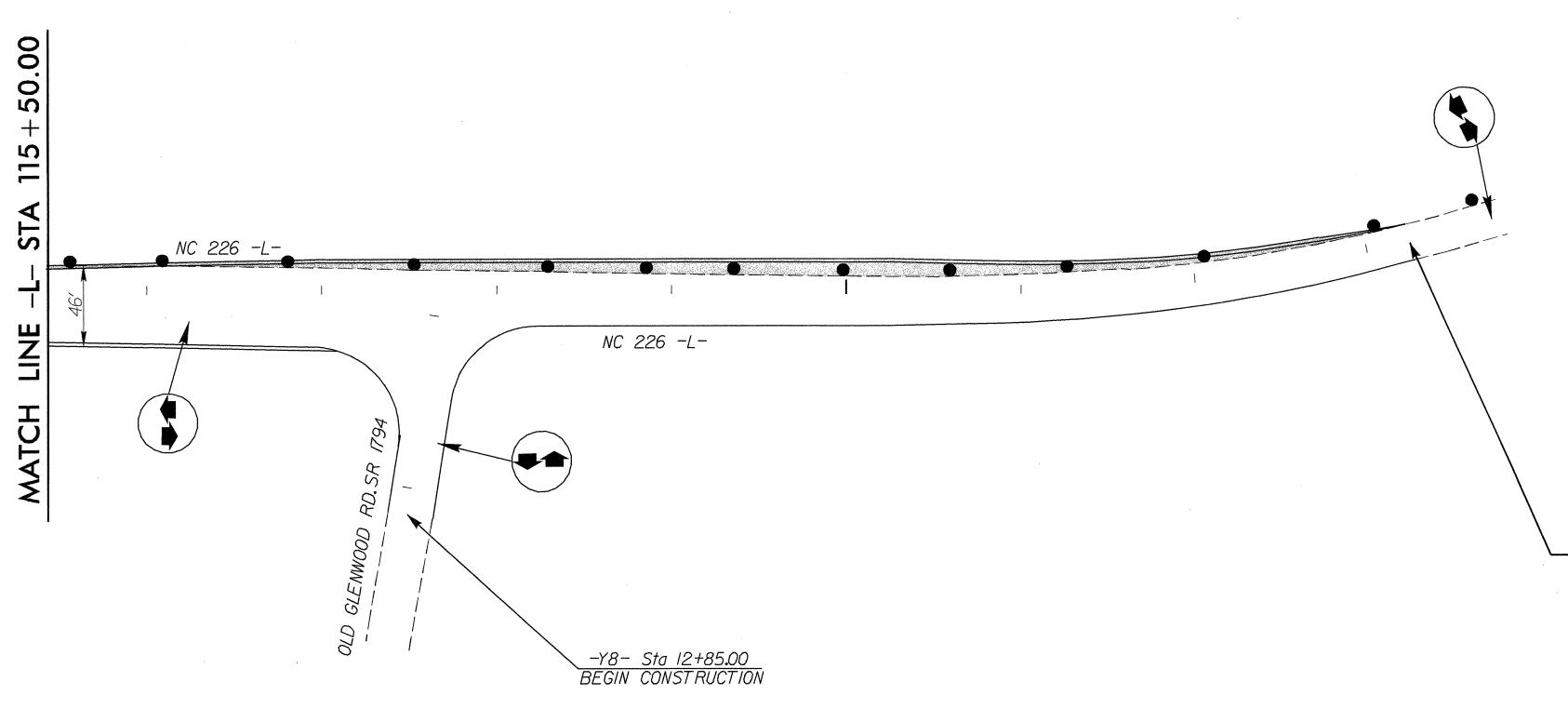
PROJ. REFERENCE NO. SHEET NO.

37857 & 37645

MA13063R & MA13025R

TCP-20

120



END PROJECT MA13025R -L- STA. 123 + 25.00

NOTE: MAINTAIN EGRESS/INGRESS TO ALL PROPERTIES DURING
CONSTRUCTION WITH INCIDENTAL STONE BASE OR MATERIAL
SUITABLE AND APPROVED BY THE ENGINEER.



## PLANS PREPARED BY :

RUMMEL KLEPPER & KAHL, LLP

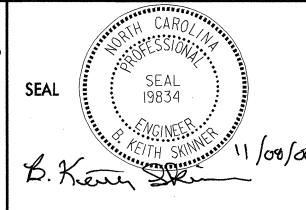
consulting engineers

900 RIDGEFIELD DRIVE SUITE 350

RALEIGH, NORTH CAROLINA 27609-3960

FOR

DIVISION OF HIGHWAYS



## PHASE II

	SCALE:	NC
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~ ′	DESIGN BY:	MA
	REVIEWED BY:	BK

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REVISIONS

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PROJ. REFERENCE NO. SHEET NO.

37857 & 37645

MA13063R & MA13025R

TCP-21

#### PHASE III

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STEP 1: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9 AND FLAGGERS, WEDGE/PAVE THE PROPOSED NC 226 -L- UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE AT THE
                   FOLLOWING LOCATIONS, (SEE ROADWAY PLANS AND SHEETS TCP-2 LOCAL NOTES 1 AND 3):
                   - TEMPORARILY CLOSE NC 226 SOUTH BOUND TRAVEL LANE AND MAINTAIN TRAFFIC ON NORTH BOUND NC 226 TO WEDGE/PAVE PROPOSED NC 226 -L- AND PLACE PROPOSED PAVEMENT MARKINGS,
                       (THERMOPLASTIC) AND SNOWPLOWABLE RAISED PAVEMENT MARKERS FROM STA. 16+00 +/- -L-
                      TO STA. 71+50 +/- AND FROM -L- STA. 79+50 +/- TO -L- STA. 123+25 +/-. AT THE END OF THE WORK DAY NC 226 TRAFFIC WILL BE RESTORED TO ITS ORIGINAL TRAFFIC PATTERN.
                      WEDGE/PAVE THE PROPOSED -Y- LINES AND PLACE PROPOSED PAVEMENT MARKINGS,
                       (THERMOPLASTIC) AND SNOWPLOWABLE RAISED PAVEMENT MARKERS AT THE FOLLOWING
                      LOCATIONS. AT THE END OF THE WORK DAY THESE -Y- LINES WILL BE OPENED TO THE ORIGINAL TRAFFIC PATTERN:
                     - FROM -Y1- STA. 10+29 +/- TO -Y1- STA.13+20 +/-,
- FROM -Y6- STA. 12+60 +/- TO -Y6- STA. 13+25 +/-,
- FROM -Y8- STA. 12+85 +/- TO -Y8- STA. 14+10 +/-.
STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9 AND FLAGGERS, WEDGE/PAVE PROPOSED UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS, (SEE ROADWAY PLANS AND SHEET TCP-2 LOCAL NOTES 1 AND 3):
                - TEMPORARILY CLOSE NC 226 NORTH BOUND TRAVEL LANE AND MAINTAIN TRAFFIC ON SOUTH BOUND NC 226 TO CONSTRUCT WEDGE/PAVE PROPOSED NC 226 -L- FROM STA. 16+00 +/- TO STA. 71+50 +/- AND FROM -L- STA. 79+50 +/- TO -L- STA. 123+25 +/-. AT THE END OF THE WORK DAY NC 226 TRAFFIC WILL BE
                     RESTORED TO ITS ORIGINAL TRAFFIC PATTERN.
                 - WEDGE/PAVE THE FINAL LAYER OF SURFACE COURSE OF -Y1-, -Y6- AND -Y8- AT THE FOLLOWING LOCATIONS. AT THE END OF THE WORK DAY THESE -Y- LINES WILL BE OPENED TO THE ORIGINAL TRAFFIC PATTERN:
                     - FROM -Y2- STA. 10+22 +/- TO -Y2- STA.11+01 +/-,
                     - FROM -Y3- STA. 10+25 +/- TO -Y3- STA. 11+50 +/-
STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEET SHEET 2 OF 9 AND FLAGGERS, PLACE PAVEMENT MARKINGS, (THERMOPLASTIC) AND PAVEMENT MARKERS, (PERMANENT) ON THE FINAL WEARING SURFACE OF NC 226 FROM -L- STA. 16+00 +/- TO -L- STA. 71+50 +/-, FROM STA. 79+50 +/- TO -L- STA. 123+25 +/- AND ON THE FOLLOWING -Y- LINE LOCATIONS, (SEE SHEETS TCP-2 LOCAL NOTES 1 AND 3, PM-1 THROUGH PM-4):
- FROM -Y- STA. 10+00 +/- TO -Y- STA. 11+75 +/-,
                 - FROM -Y1- STA. 10+29 +/- TO -Y1- STA. 13+06 +/-,
                - FROM -Y2- STA. 10+22 +/- TO -Y2- STA. 11+01 +/-,
- FROM -Y3- STA. 10+20 +/- TO -Y3- STA. 11+50 +/-,
- FROM -Y4- STA. 11+40 +/- TO -Y4- STA. 13+00 +/-,
- FROM -Y5A- STA. 10+23 +/- TO -Y5A- STA. 13+00,
                 - FROM -Y5B- STA. 10+22 +/- TO -Y5B- 13+25 +/-,
                - FROM -Y6- STA. 12+60 +/- TO -Y6- STA. 13+35 +/-,
- FROM -Y7- STA. 10+25 +/- TO -Y7- STA. 11+70 +/-,
- FROM -Y8- STA. 12+85 +/- TO -Y8- STA. 14+00 +/-,
```

STEP 4: REMOVE ANY REMAINING TRAFFIC CONTROL DEVICES FROM THE PROJECT LIMITS AND OPEN NC 226 AND

ALL -Y- LINES TO THEIR PROPOSED TRAFFIC PATTERNS.

SYMBOL	L DESCRIPTION	TEMPORARY PAVEMENT MARKING SO QUANTITY BREAKDOWN	SCHEDULE PAY ITEM	TOTAL QUANTITY
İ		- A TAIT ( 4 11 )	PAVEMENT MARKING LINES	
		PAINT (4")		91,988 LF
PA PE PF PH PI	WHITE EDGELINE 2X WHITE SOLID LANE LINE 2X 10 FT YELLOW SKIP 2X YELLOW SINGLE CENTER 2X DOUBLE YELLOW CENTERLINE 2X	1700 LF 2400 LF 5338 LF 64050 LF LF		
I		PAINT (8")		600 LF
PV	YELLOW DIAGONAL 2X	600 LF		
I		PAINT (24")		400 LF
P4	WHITE STOP BAR 2X	400 LF		,
			PAVEMENT MARKING SYMBOLS	
		PAINT SYMBOL	LAAEMENI MAUVING SIMPOFO	138 EA
QA OB	LEFT TURN ARROW 2X RIGHT TURN ARROW 2X	80 EA 16 EA		
QB QC	STRAIGHT ARROW 2X	20 EA		
QD	COMBINATION STRAIGHT &	<i>Λ</i> ΕΔ		
QE	LEFT TURN ARROW 2X COMBINATION STRAIGHT &	4 EA		
*	RIGHT TURN ARROW 2X	18 EA		
		PAINT CHARACTERS	PAVEMENT MARKING CHARACTERS	8 EA
QI	ALPHANUMERIC 1X	8 EA		
			PAVEMENT MARKERS	
MH MI	YELLOW & YELLOW CRYSTAL & RED	TEMPORARY RAISED 282 EA 30 EA		312 EA
	FOR EACH PAINT PAVEMENT MARKING 2X IMPLIES TWO APPLICATIONS, AND			



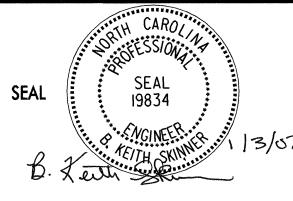
#### PLANS PREPARED BY :

# RUMMEL KLEPPER & KAHL, LLP consulting engineers

900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960

FOR

DIVISION OF HIGHWAYS



# PHASE III & TEMPORARY PAVEMENT MARKING SCHEDULE

SCALE: NONE

DATE: 11 / 06

DWG. BY: MAC

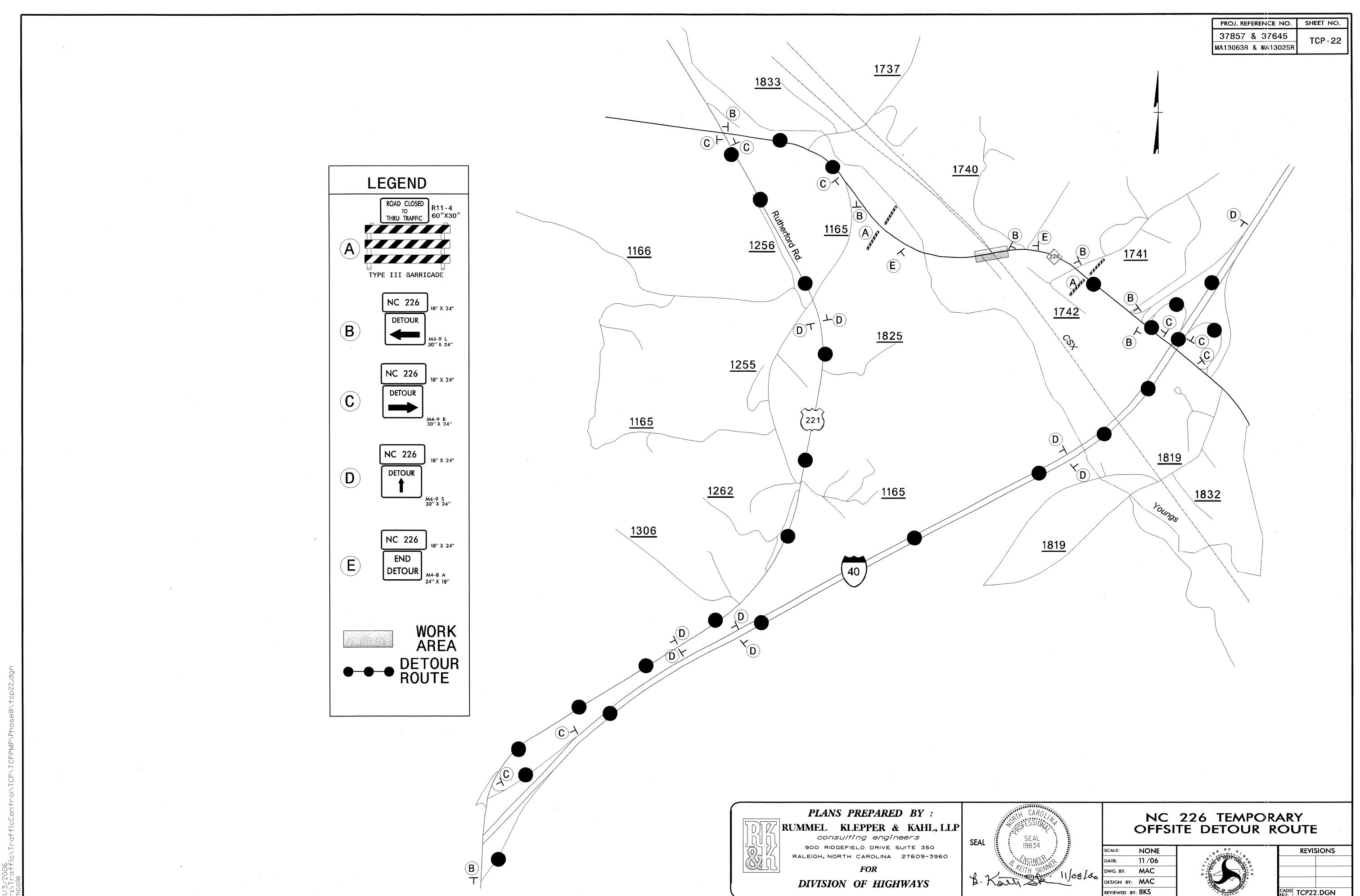
DESIGN BY: MAC

REVIEWED BY: BKS

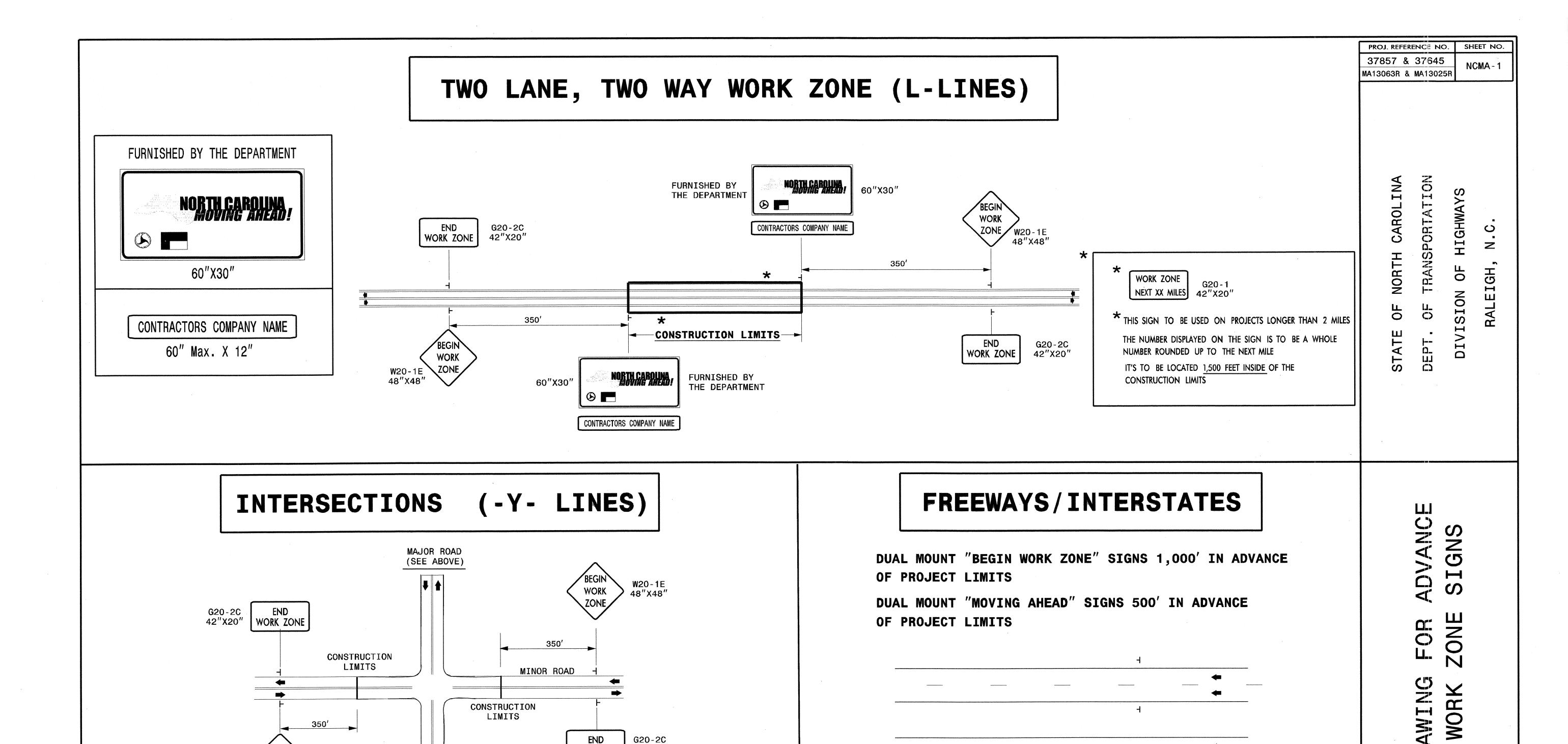


REVISIONS

CADD TCP21.DGN



CADD TCP22.DGN



## GENERAL NOTES

END WORK ZONE

G20-2C 42"X20"

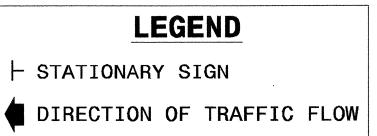
★ ON INTERSECTION TYPE PROJECTS,

SELECT THE MAJOR ROAD BASED ON THE HIGHER ADT.

LIMITS

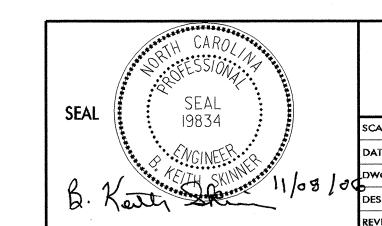
MAJOR ROAD (SEE ABOVE)

SEE SPECIAL PROVISIONS FOR "NORTH CAROLINA MOVING AHEAD" REQUIREMENTS.



SHEET 1 OF 1

WARNING



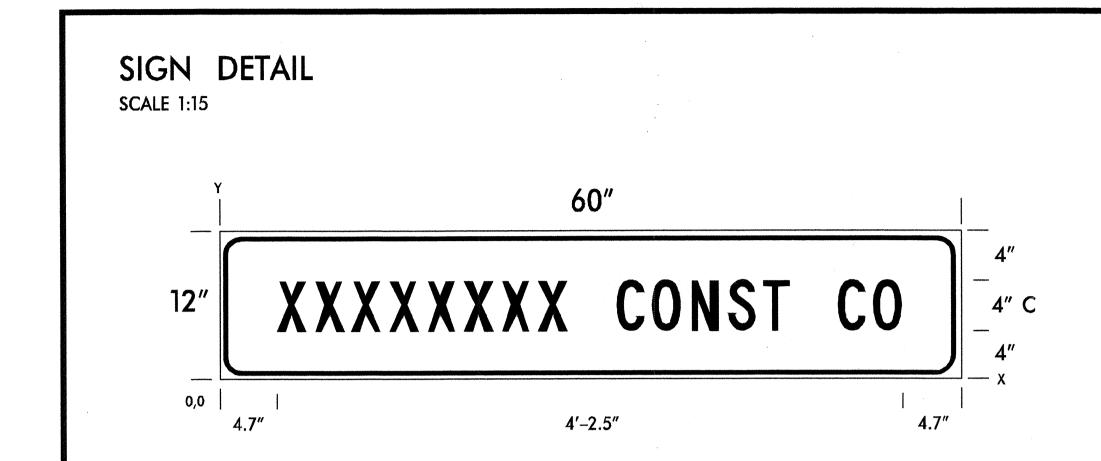
ADVANCE	E WAI	RNING	WORK	ZONE
SIGNS	FOR	"MOVI	NG AF	IEAD"

LE:	NONE	
E:	07/03	د
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**REVISIONS** 11/06 NCMA01.DGN

PROJ. REFERENCE NO. SHEET NO. 37857 & 37645 NCMA-2 MA13063R & MA13025R



N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH

DATE:8-11-03 SIGN NUMBER:SP03331 DESIGN BY: D IVES CHECKED BY: STD. #:0 TYPE:D DIV:N/A QUANTITY:N/A PROJECT ID:

BACKGROUND COLOR: ORANGE WIDTH×HEIGHT:60" x 12" COPY COLOR:BLACK MAJ COPY SERIES:C SIGN AREA:5.00 SQ.FT. BORDER TYPE:FLUSH RECESS:0.375

2 U CHANNEL POST(S)
MAT'L: 0.125" ALUMINUM BORDER WIDTH:0.375" RADII:1.5"

NOTES:

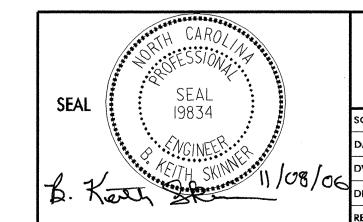
-Legend and border shall be direct applied non-reflective sheeting. -Background shall be Type I reflective sheeting. -If needed, letter size for contractor's name shall be reduced so sign shall not exceed 60 inches in width. -To be mounted beneath "NC Moving Ahead" sign.

DIMENSIONS IN INCHES

SPACINGS ARE TO START OF NEXT LETTER

LETTER SPACINGS										HT LEN												
4.0	$\overline{}$	X	X	X	X	X	X	X	X	$\searrow$	С	0	N	S	T		C	0				4.0
С	4.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.3	4.0	2.9	3.1	3.0	2.9	2.0	4.0	2.9	2.3	4.7		5	50.5

file: Const Co Demo.dgn



#### SIGN DESIGN FOR CONTRACTORS COMPANY NAME

- 1			
	SCALE:	NONE	
	DATE:	11 /06	
	DWG. BY:	MAC	
2	DESIGN BY:	MAC	

REVISIONS NCMA02.DGN