

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
R - 3 6 2 2 A B	TCP-1

**PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION
CHEROKEE COUNTY**

R-3622AB

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"- PROJECT SERVICES 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 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
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1250.01	PAVEMENT MARKER SPACING
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

INDEX OF SHEETS

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TEMPORARY PAVEMENT MARKING SCHEDULE

DESCRIPTION	TEMPORARY PAVEMENT MARKINGS PAINT(4")	PAY ITEM QUANTITY	TOTAL
YELLOW DOUBLE CENTER (3X)		54,132 LF	54,132 LF

FINAL PAVEMENT MARKING SCHEDULE

DESCRIPTION	MARKERS	PAY ITEM QUANTITY	TOTAL
YELLOW DOUBLE CENTER	THERMOPLASTIC(4", 120 MILS)	18,044 LF	18,044 LF
YELLOW & YELLOW	SNOWPLOWABLE RAISED PAVEMENT MARKERS	150 EA	150 EA

LEGEND

- GENERAL**
- ← DIRECTION OF TRAFFIC FLOW
 - ↑ NORTH ARROW
 - PROPOSED PVMT. - - - - - EXIST. PVMT.
 - WORK AREA
 - ▨ REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- I TYPE I BARRICADE
 - II TYPE II BARRICADE
 - ▨ TYPE III BARRICADE
 - ▲ CONE
 - DRUM ○ SKINNY DRUM
 - ⊙ FLASHING ARROW PANEL (TYPE C)
 - ⊥ STATIONARY SIGN
 - ⊏ PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - ⋯ CRASH CUSHION
 - ⊠ CHANGEABLE MESSAGE SIGN
 - ⊠ TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
 - ⊠ POLICE
 - ⊠ FLAGGER
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
 - ◆ YELLOW/YELLOW PAVEMENT MARKER
 - CRYSTAL/RED PAVEMENT MARKER
 - ↑↑ PAVEMENT MARKING SYMBOLS

TIP PROJECT:

APPROVED: _____ DATE: _____	PLAN PREPARED FOR: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
SEAL	J. S. Bourne, PE TRAFFIC CONTROL ENGINEER
	M. M. McDiarmid, PE TRAFFIC CONTROL PROJECT ENGINEER
	C. Lanford, PE TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	S. B. Coats TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

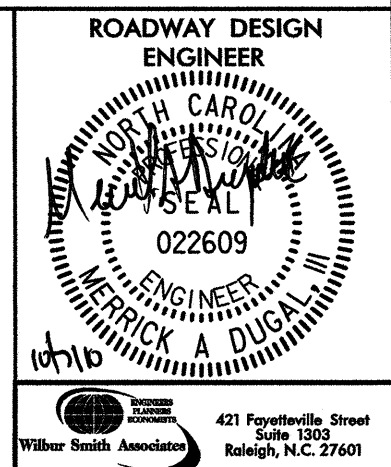
WilburSmith
ENGINEERS PLANNERS ECONOMISTS
421 Fayetteville Street
Suite 1303
Raleigh, North Carolina 27601
phone: (919) 755-0583
fax: (919) 832-8798

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PROJECT NOTES

GENERAL NOTES

PROJECT REFERENCE NO.	SHEET NO.
R-3622AB	TCP-2
RW SHEET NO.	



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 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.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- 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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- E) 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.
- F) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- H) 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.
- I) STATE FORCES WILL BE RESPONSIBLE FOR PERMANENT SIGNING.
- J) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- K) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- M) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- N) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

- O) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1205.01 AND 1205.02 (TWO - YELLOW CENTER LINES, DOUBLE YELLOW)AS FOLLOWS:

ROAD NAME	MARKING	MARKER
NC 294	PAINT	RAISED SNOWPLOWABLE
SR 1130	PAINT	NONE

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

ROAD NAME	MARKING	MARKER
NC 294	PAINT	TEMPORARY RAISED

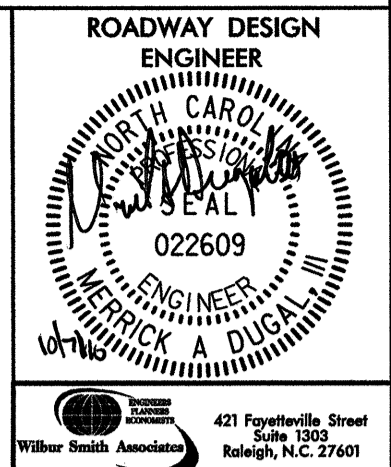
- Q) PLACE TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE. PLACE THE SECOND APPLICATION OF PAINT UPON SUFFICIENT DRYING TIME OF THE FIRST.
- R) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- T) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

TRAFFIC CONTROL PROJECT NOTES		
SCALE: NONE		REVISIONS
DATE: 10/2010		
DWG. BY: KWB		
DESIGN BY: MAD		
REVIEWED BY: MAD		

PROJECT NOTES

PHASING NOTES

PROJECT REFERENCE NO.	SHEET NO.
R-3622AB	TCP-3
RW SHEET NO.	



PHASE I

STEP 1:
 ERECT WORK ZONE ADVANCE WARNING SIGNS ON -L- (NC 294), -Y1- (SR 1130 SUNNY POINT RD), -Y2- (HOLLY RD), -Y5- (SR 1309 OAK GROVE RD), AND -Y6- (SR 1308 SANDY GAP RD) IN ACCORDANCE WITH STANDARD DRAWING FOR WORK ZONE SIGNS. (SEE TCP-3A)

STEP 2:
 USING RDWY STD 1101.02 SHEET 1, CONSTRUCT WIDENING AND WEDGING EXCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:
 (WHERE ADJACENT TO EXISTING, TIE FLUSH TO EXISTING PAVEMENT)

- L- STA 14+37 TO -L- STA 23+12
- L- STA 32+10 TO -L- STA 33+99
- L- STA 38+64 TO -L- STA 39+63
- L- STA 75+70 TO -L- STA 88+79
- L- STA 96+00 TO -L- STA 110+00

ON NEW LOCATION:

- L- STA. 23+31 TO STA. 32+10
- L- STA. 33+99 TO STA. 38+64
- L- STA. 39+63 TO STA. 44+51
- L- STA. 66+17 TO STA. 75+70

- Y1- STA 10+57 TO STA 13+45
- Y2- STA 10+00 TO STA 10+45
- Y5- STA 10+95 TO STA 13+73

PHASE II

STEP 1:
 USING FLAGGERS AND FLAGGER AHEAD SYMBOL SIGNS FROM RDWY STD 1101.02, SHEET 1, PLACE WIDENING AND WEDGING EXCLUDING THE FINAL SURFACE COURSE AS FOLLOWS:

- L- STA 11+00 TO STA 23+31
- L- STA 32+10 TO STA 33+99
- L- STA 38+64 TO STA 39+63
- L- STA 44+51 TO STA 47+49.85
- L- STA 63+35.95 TO STA 66+17
- L- STA 75+70 TO STA 110+00

- Y1- STA 10+00 TO STA 11+28
- Y1- STA 12+53 TO STA 13+55
- Y2- STA 10+00 TO STA 10+45
- Y5- STA 10+00 TO STA 13+73
- Y6- STA 10+00 TO STA 10+50

FEATHER TO MATCH EXISTING PAVEMENT AT END OF EACH WORK DAY.

PHASE III

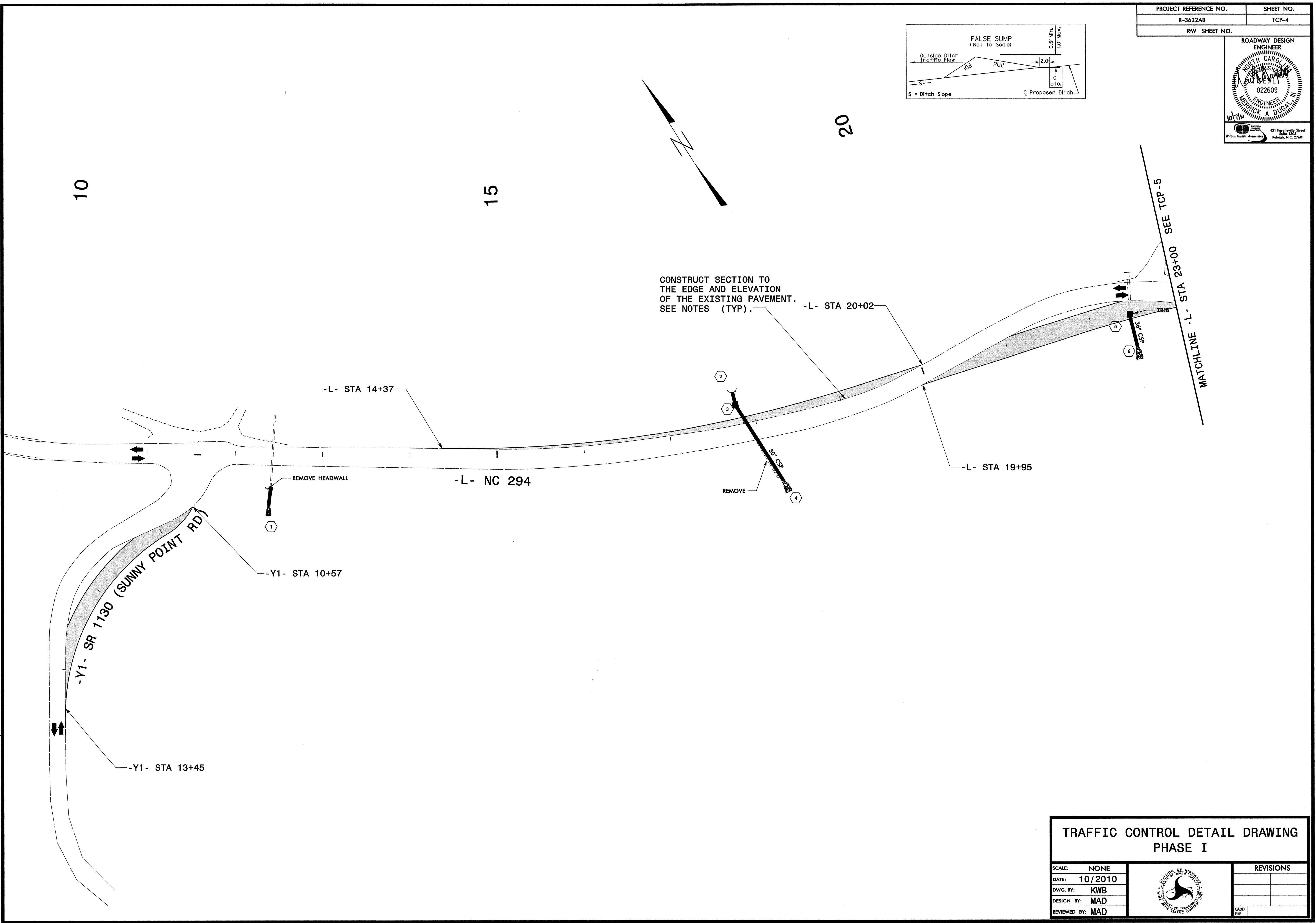
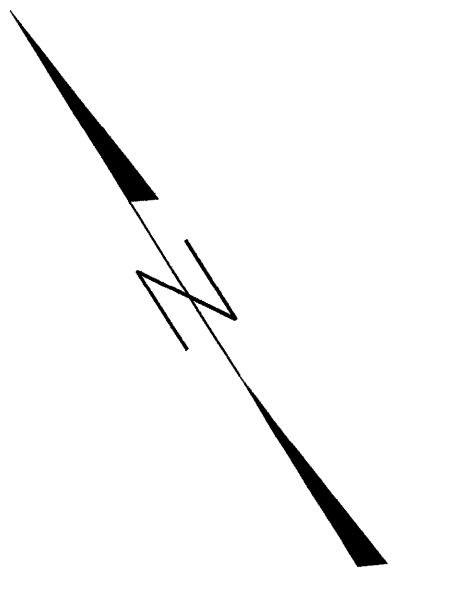
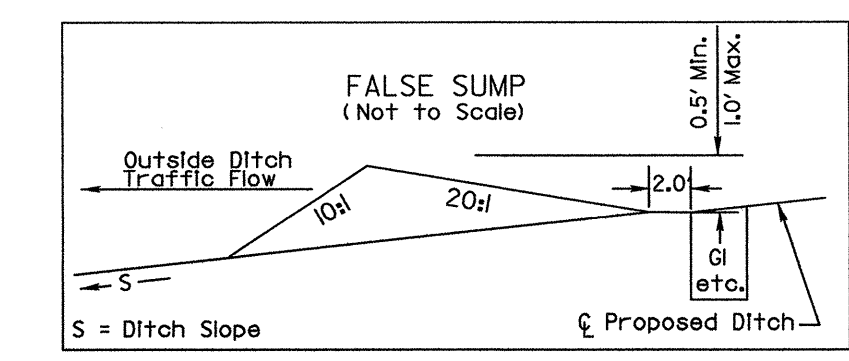
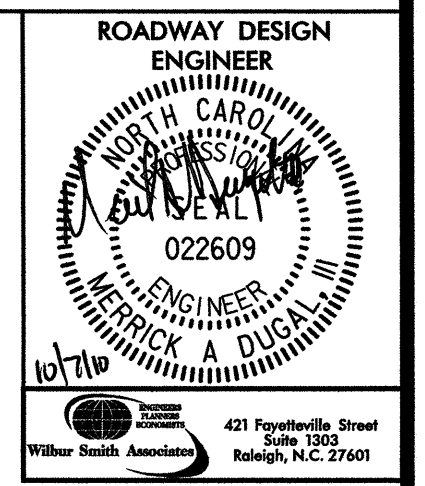
STEP 1
 USING FLAGGERS AND FLAGGER AHEAD SYMBOL SIGNS AS DIRECTED BY THE ENGINEER, PLACE THE FINAL LAYER OF SURFACE COURSE AND INSTALL FINAL PAVEMENT MARKINGS IN ACCORDANCE WITH RDWY STD 1205.01 AND 1205.02.

STEP 2
 REMOVE EXISTING PAVEMENT CALLED OUT FOR REMOVAL AND COMPLETE SITE STABILIZATION.

STEP 3
 REMOVE ALL TRAFFIC CONTROL DEVICES, AND OPEN THE PROPOSED ROADWAY TO TWO WAY TRAFFIC.

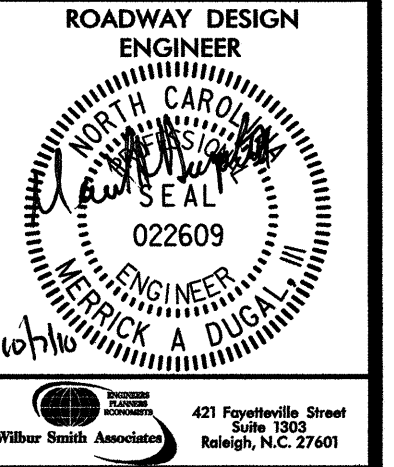
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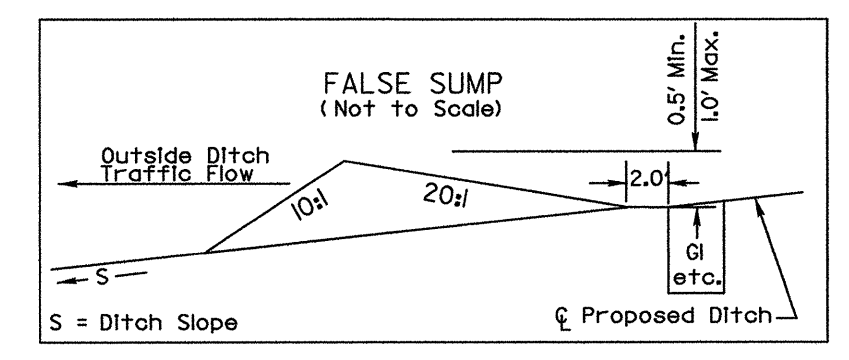
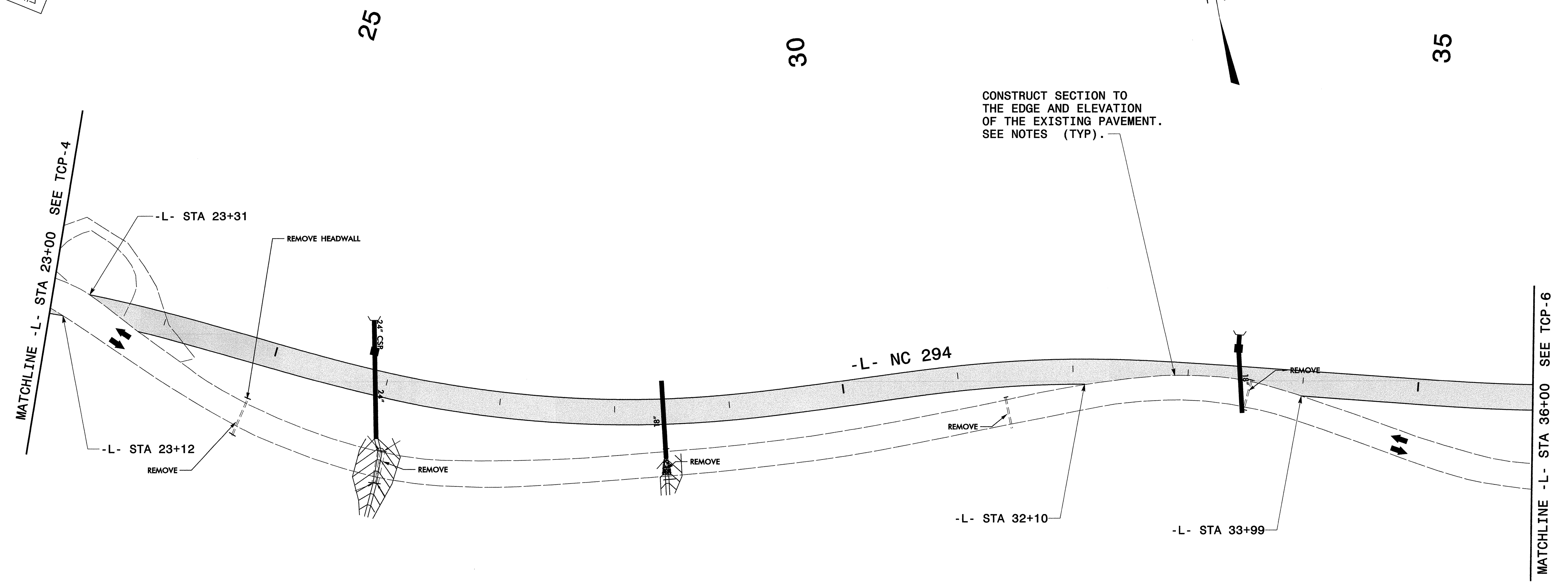
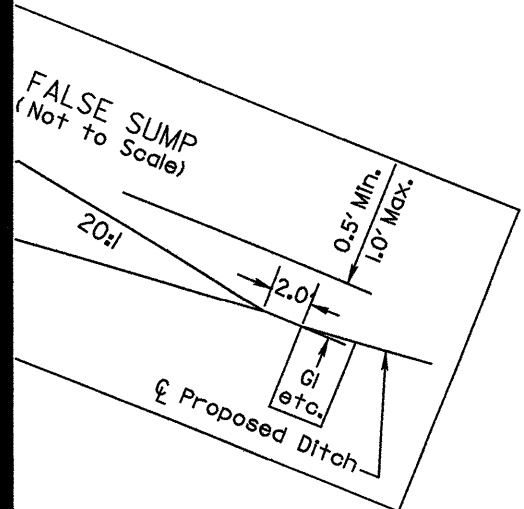
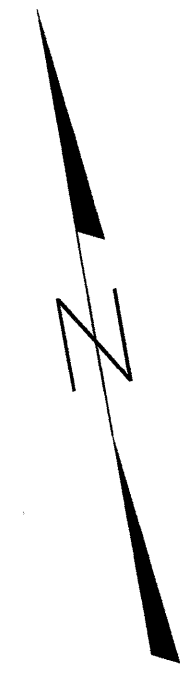


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421 Fayetteville Street
 Suite 1303
 Raleigh, N.C. 27601

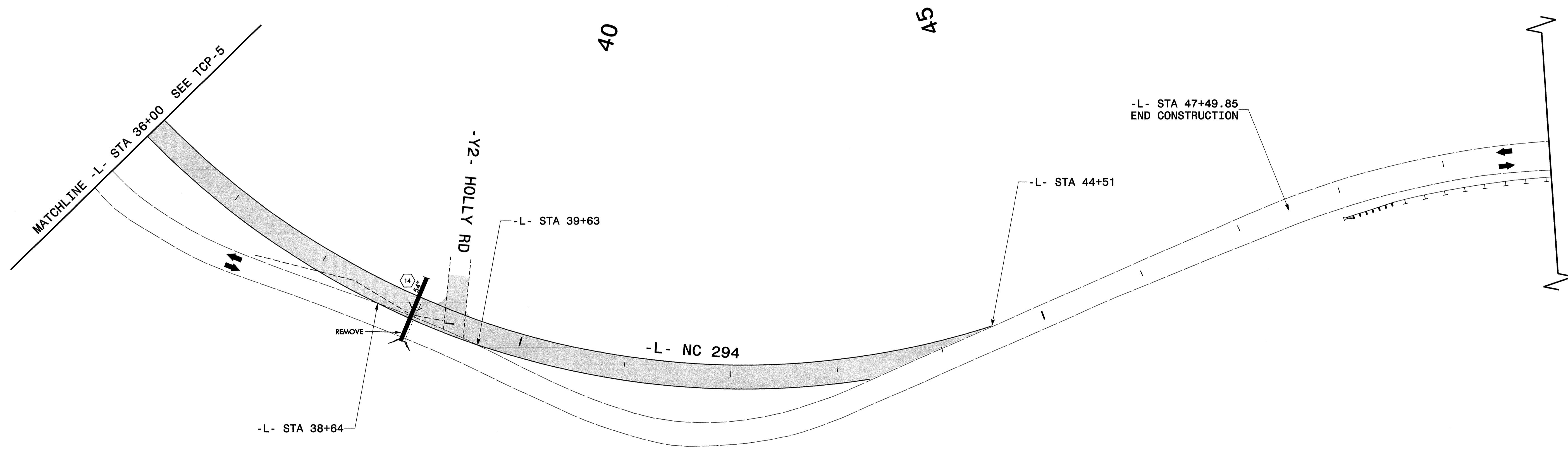
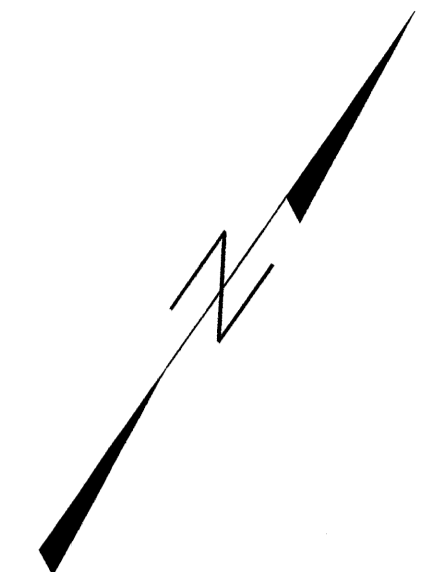
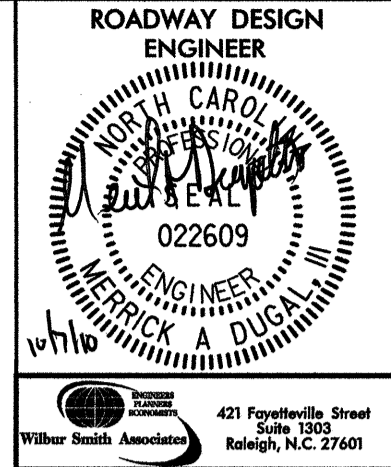


**TRAFFIC CONTROL DETAIL DRAWING
 PHASE I**

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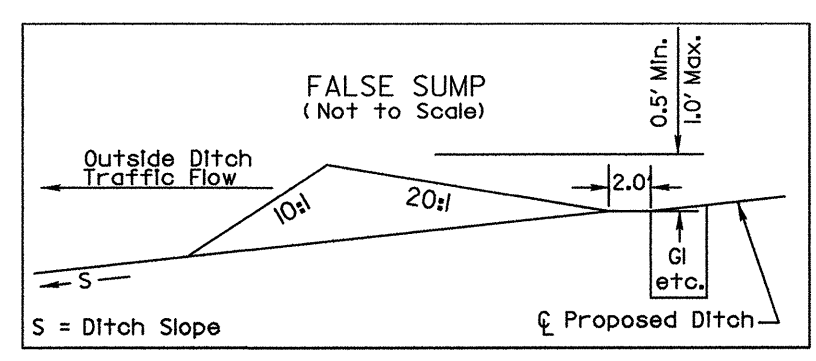
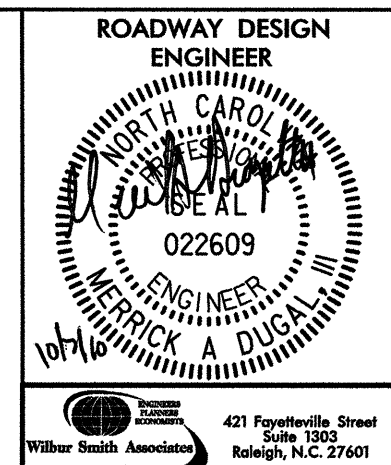
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R-3622AB	TCP-6
RW SHEET NO.	

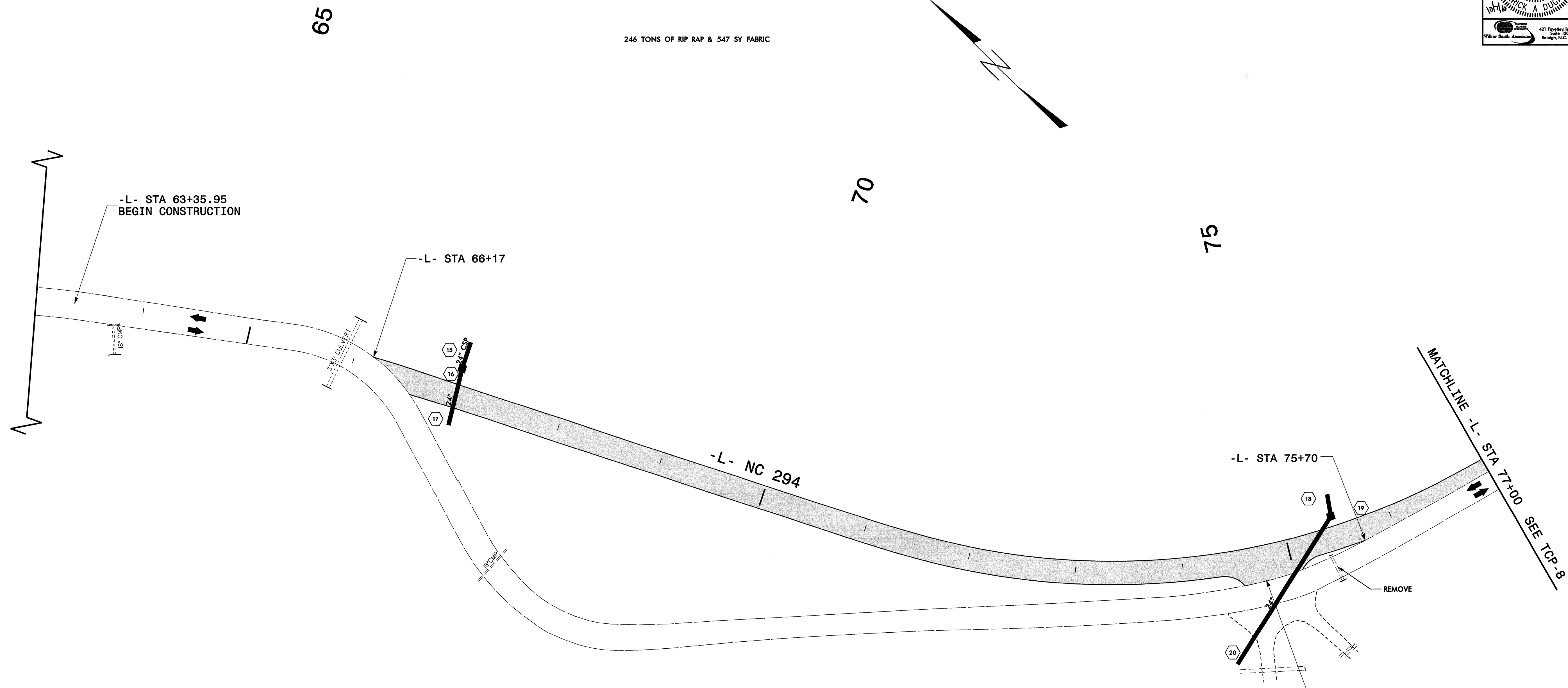
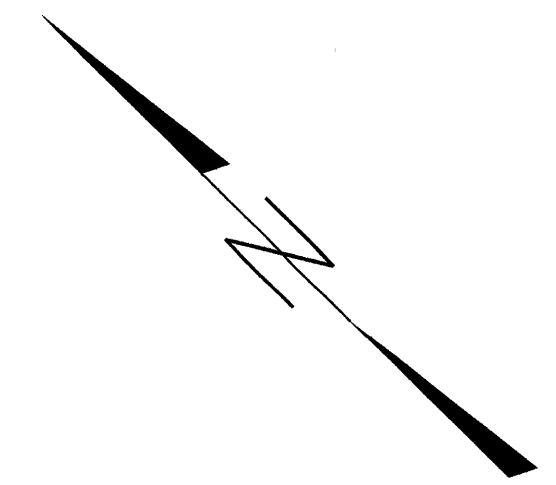


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246 TONS OF RIP RAP & 547 SY FABRIC



CONSTRUCT SECTION TO THE EDGE AND ELEVATION OF THE EXISTING PAVEMENT. SEE NOTES (TYP).

**TRAFFIC CONTROL DETAIL DRAWING
PHASE I**

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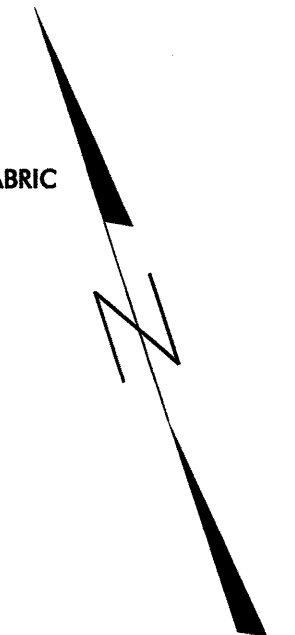


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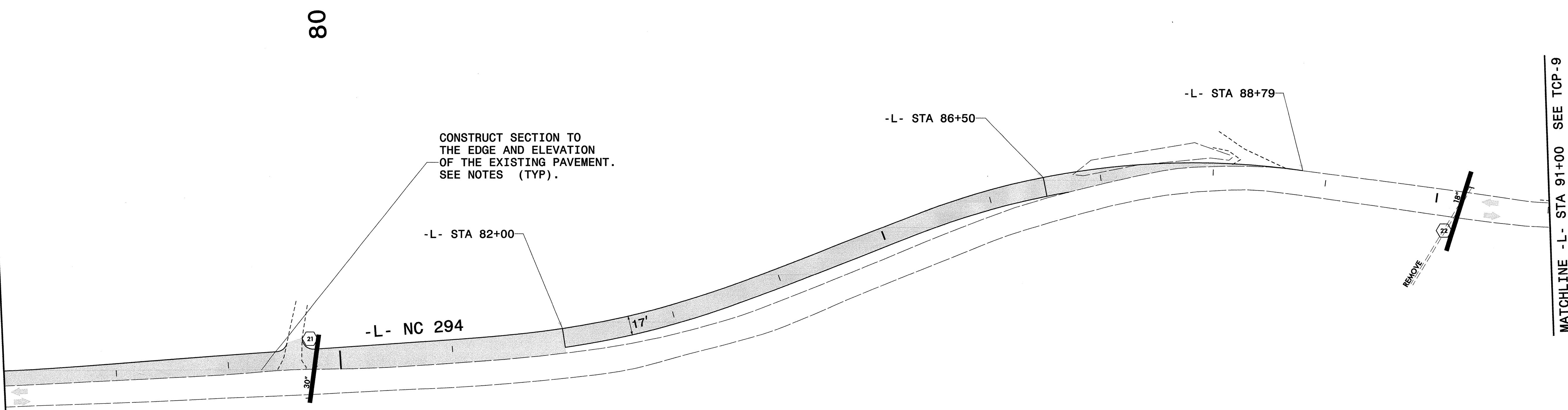
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10 TONS OF RIP RAP & 22 SY FABRIC

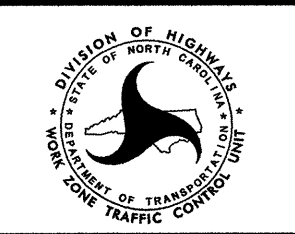


MATCHLINE - L- STA 77+00 SEE TCP-7



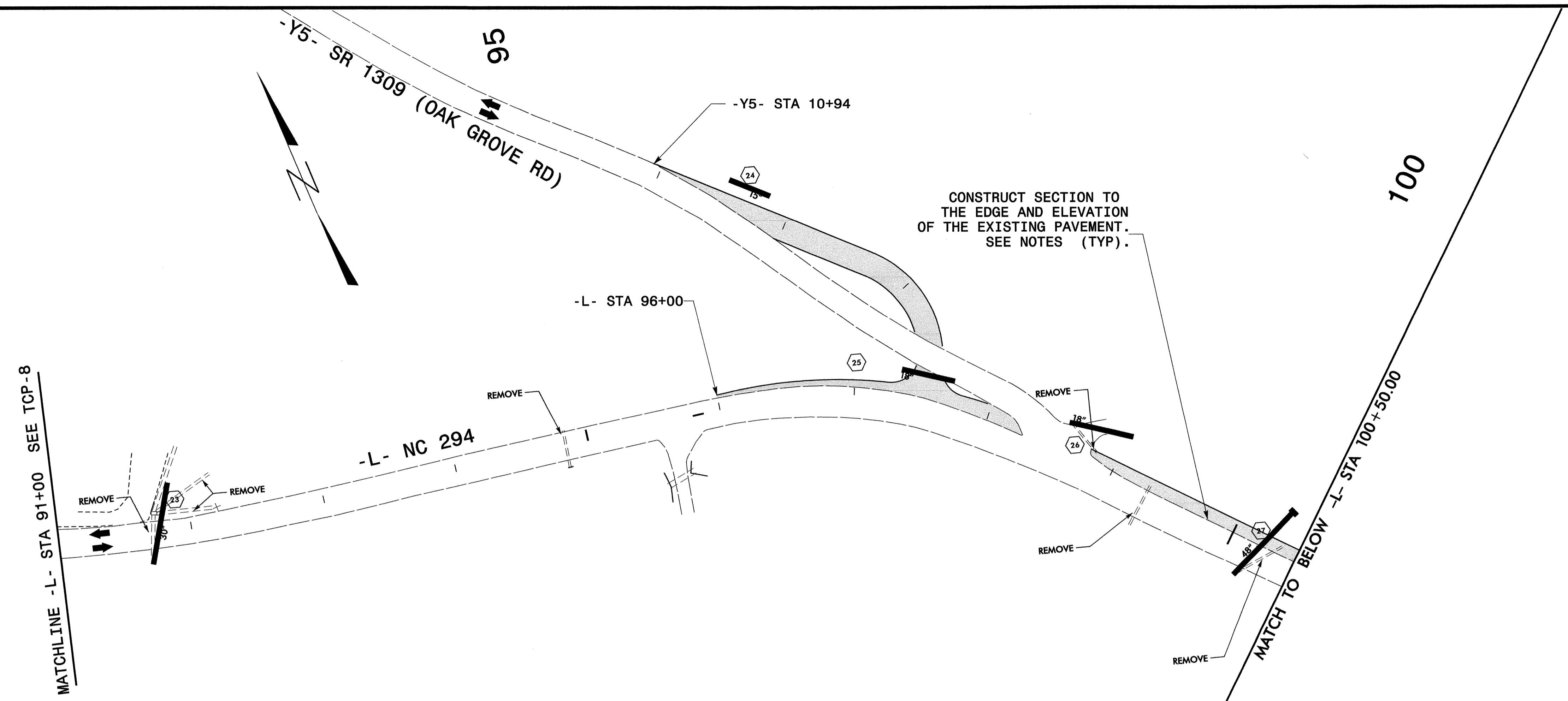
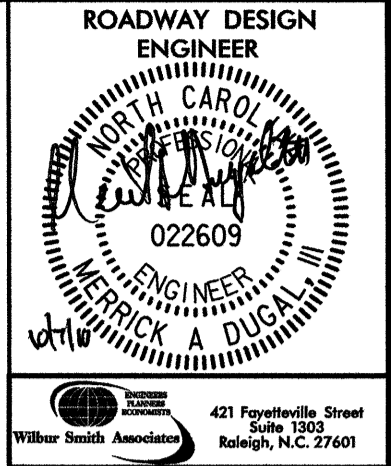
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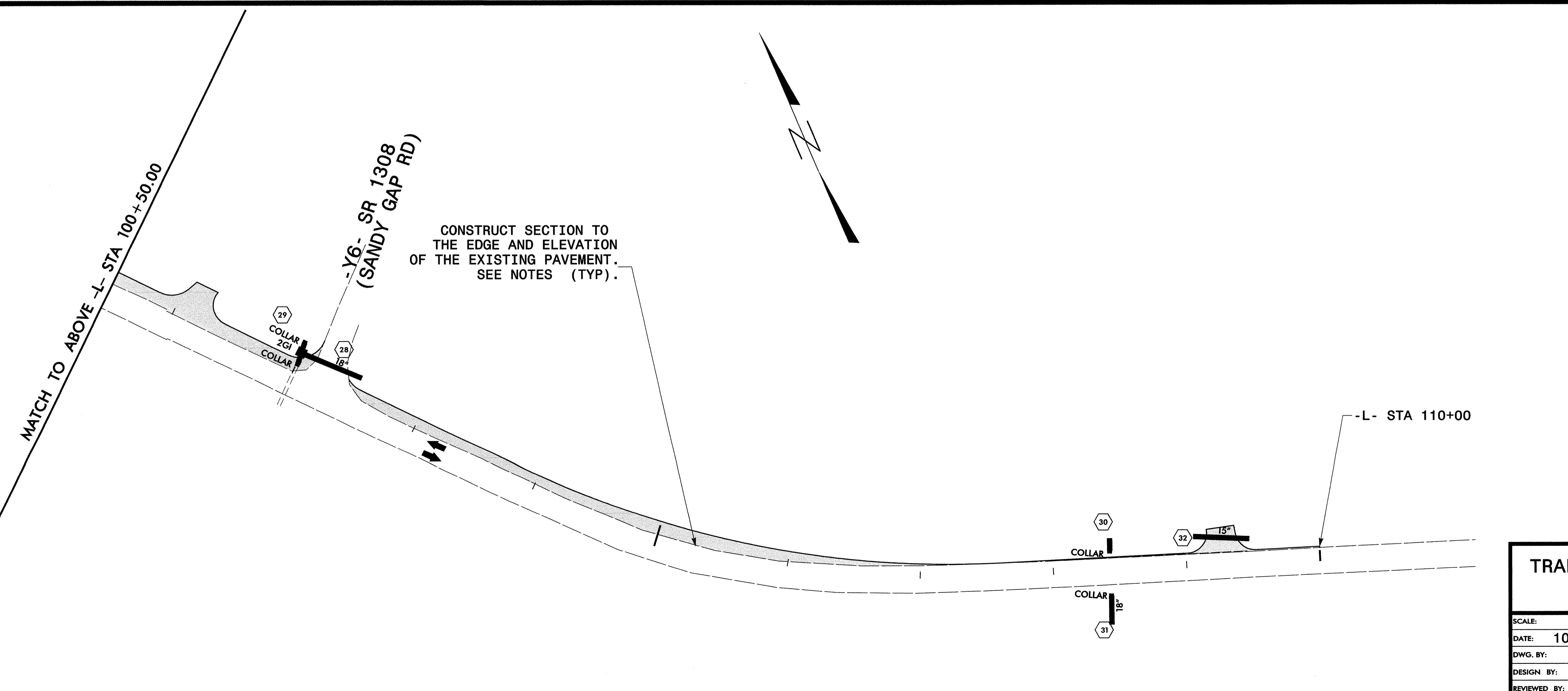


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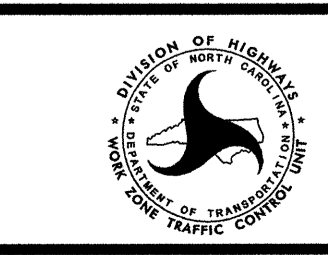
CONSTRUCT SECTION TO THE EDGE AND ELEVATION OF THE EXISTING PAVEMENT. SEE NOTES (TYP).



CONSTRUCT SECTION TO THE EDGE AND ELEVATION OF THE EXISTING PAVEMENT. SEE NOTES (TYP).

**TRAFFIC CONTROL DETAIL DRAWING
PHASE I**

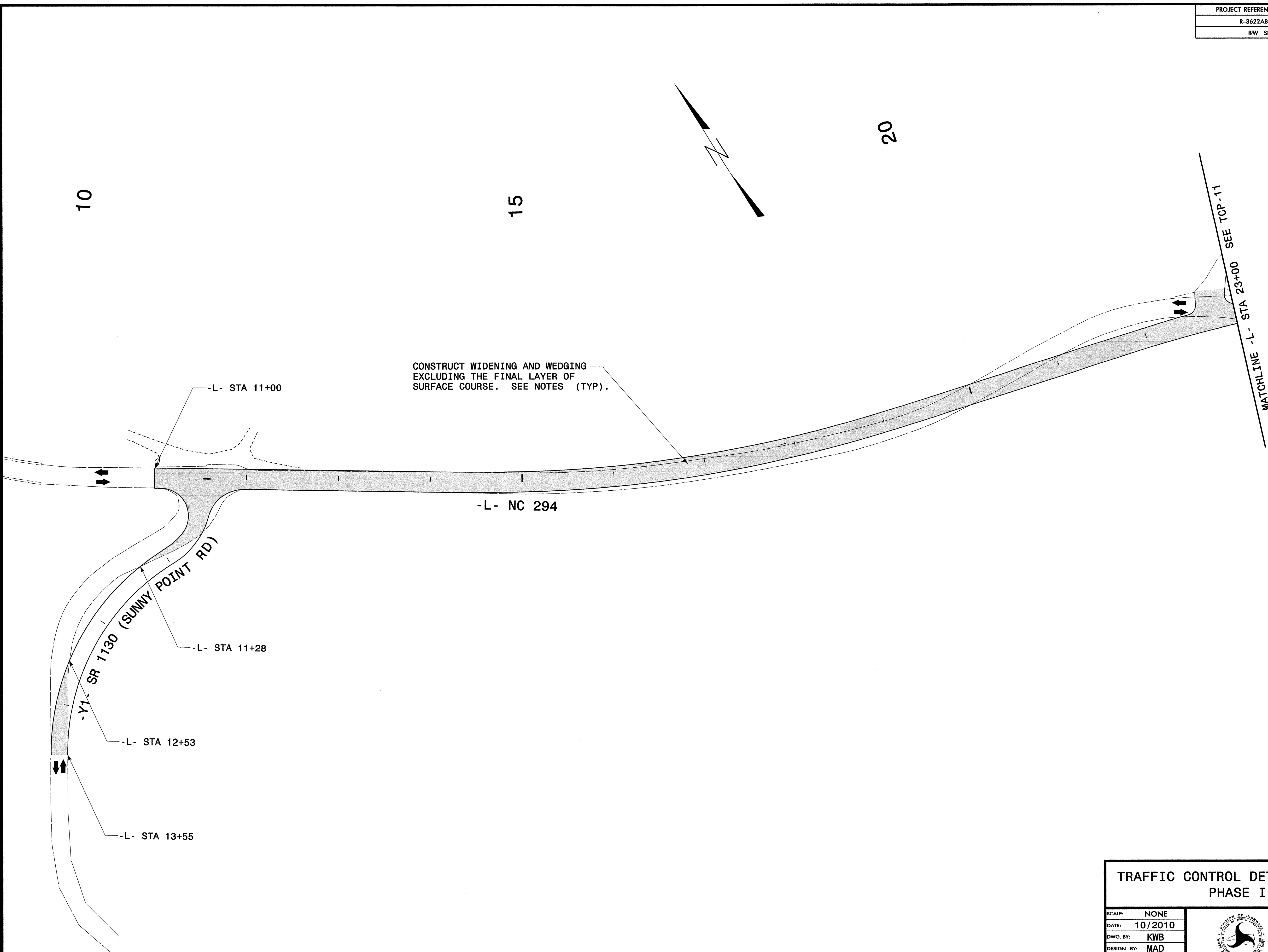
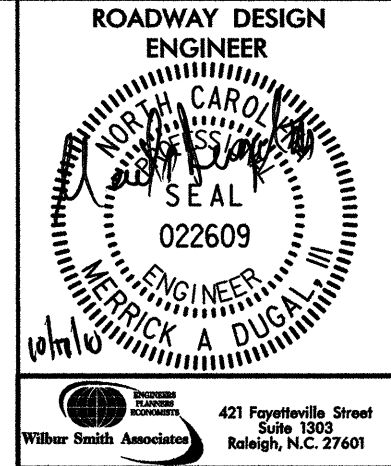
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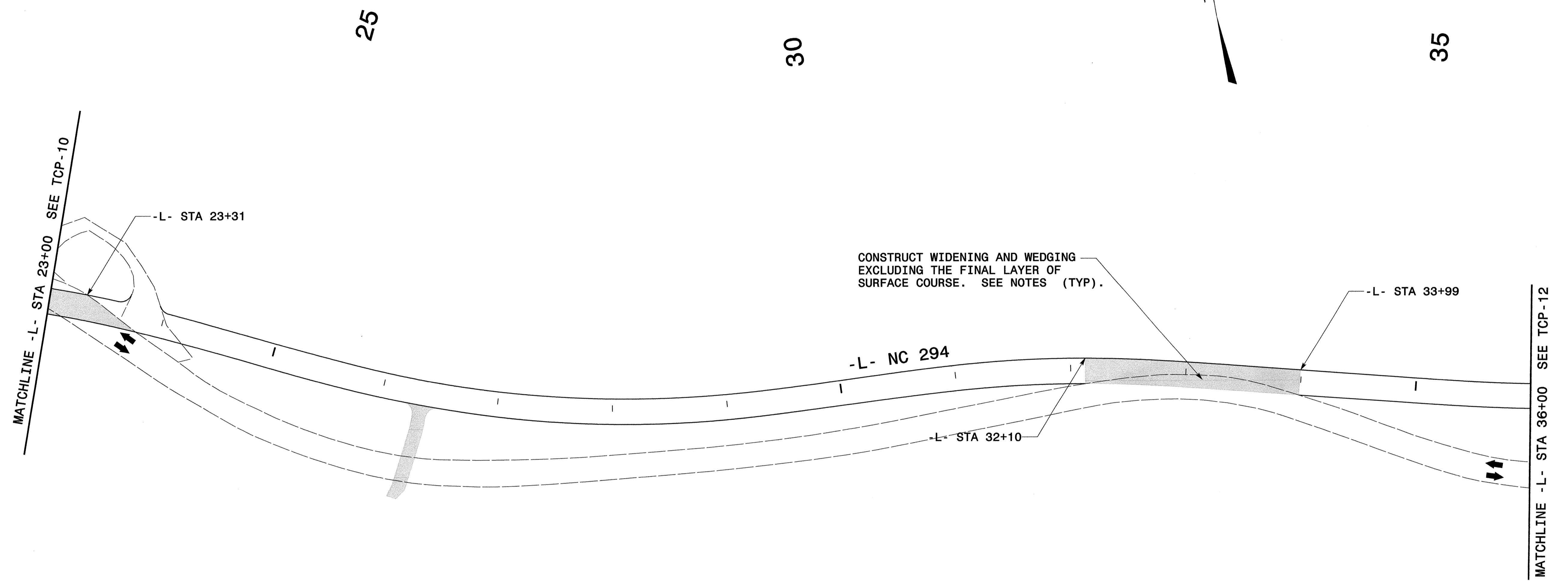
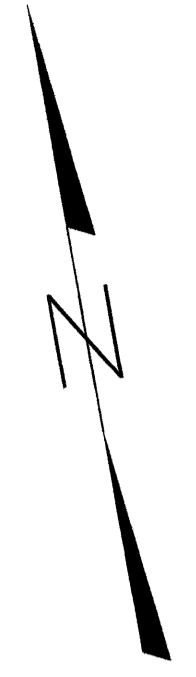
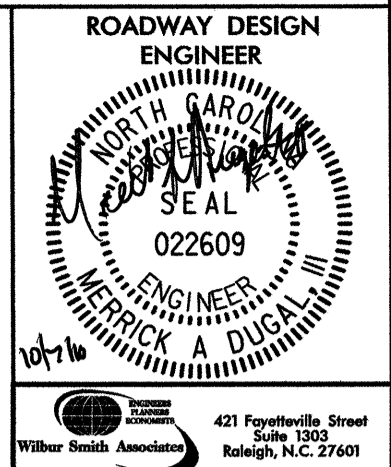
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PROJECT REFERENCE NO. R-3622AB	SHEET NO. TCP-10
RW SHEET NO.	



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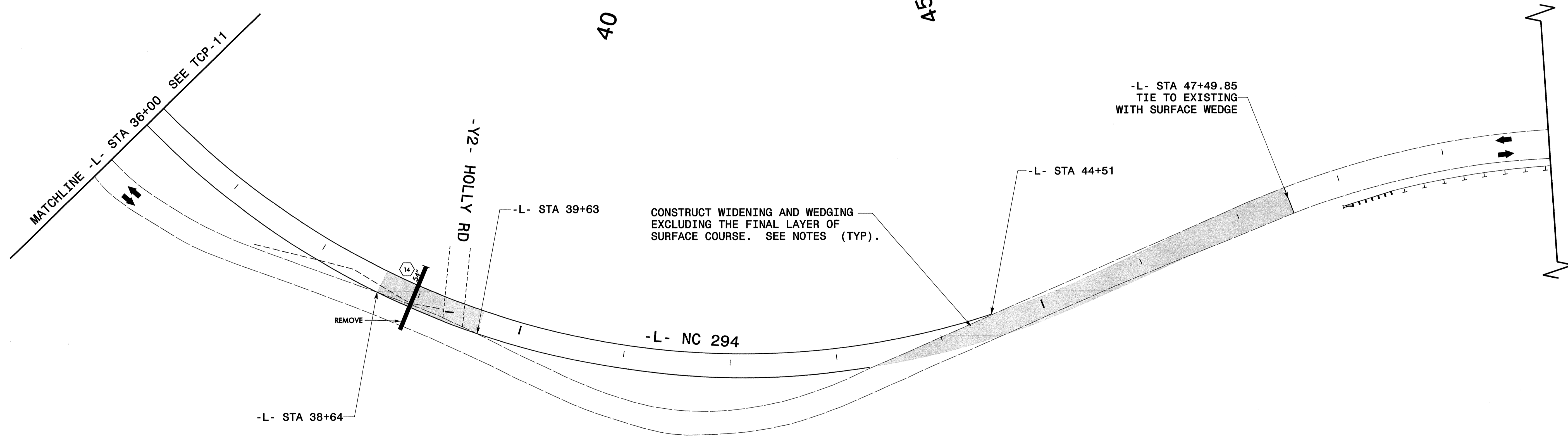
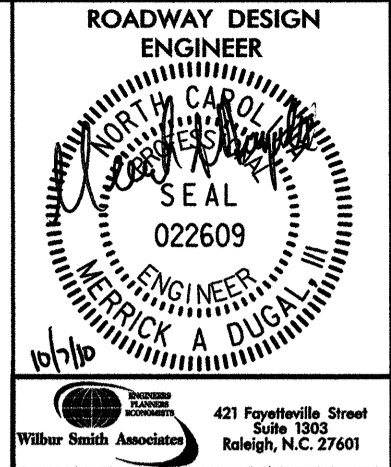
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TRAFFIC CONTROL DETAIL DRAWING PHASE II			
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PROJECT REFERENCE NO.	SHEET NO.
R-3622AB	TCP-12
RW SHEET NO.	

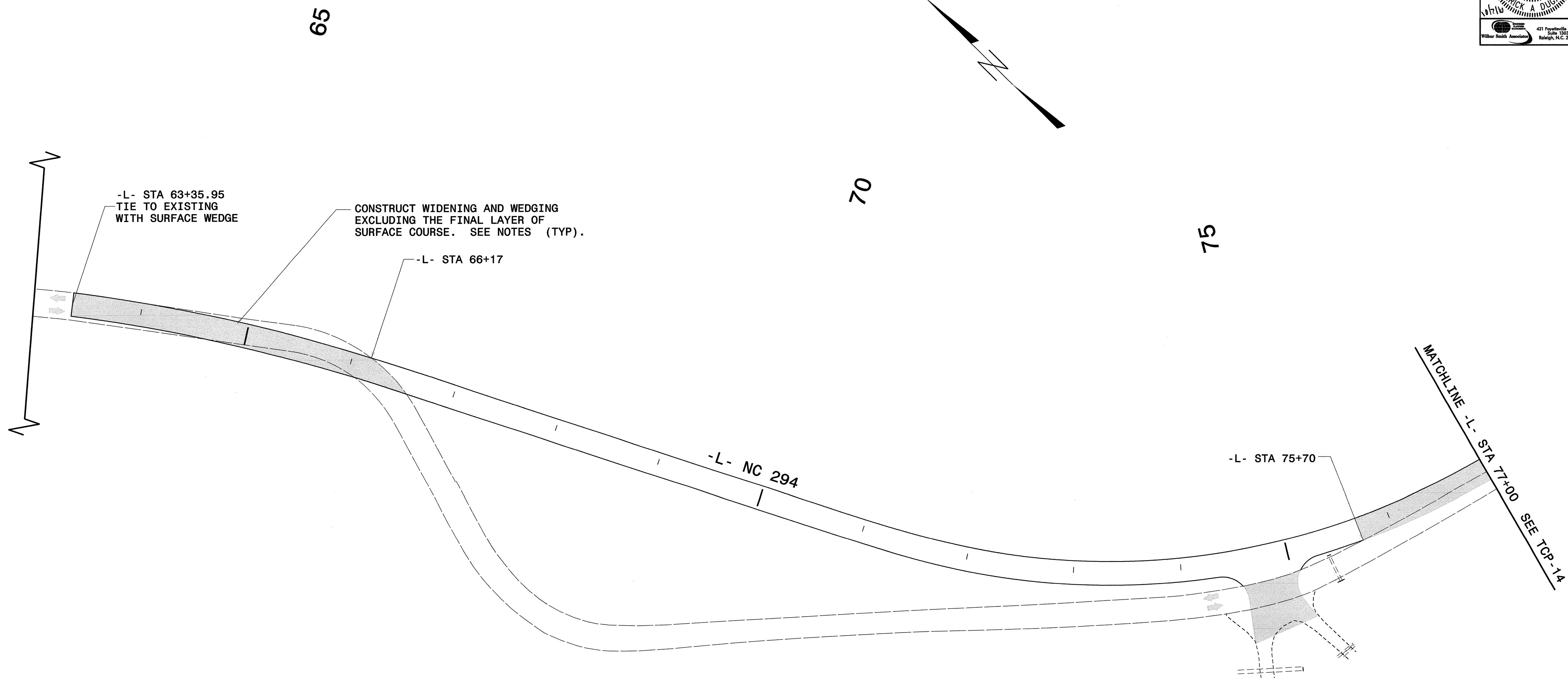
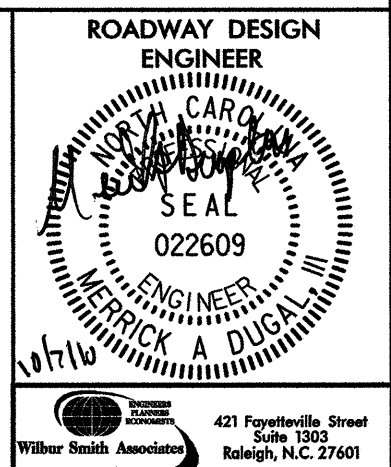


**TRAFFIC CONTROL DETAIL DRAWING
PHASE II**

SCALE: NONE		REVISIONS
DATE: 10/2010		
DWG. BY: KWB		
DESIGN BY: MAD		
REVIEWED BY: MAD		

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DATE: 10/20/10 11:12:57 AM

PROJECT REFERENCE NO.	SHEET NO.
R-3622AB	TCP-13
RW SHEET NO.	

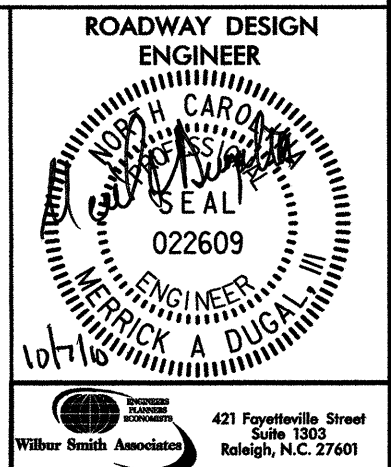


**TRAFFIC CONTROL DETAIL DRAWING
PHASE II**

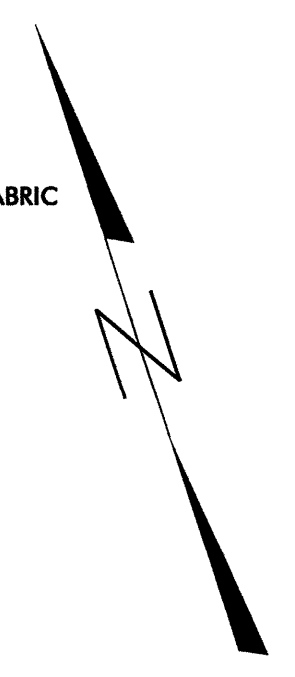
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DATE: 10/2010		
DWG. BY: KWB		
DESIGN BY: MAD		
REVIEWED BY: MAD		CADD FILE

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PROJECT REFERENCE NO.	SHEET NO.
R-3622AB	TCP-14
RW SHEET NO.	



10 TONS OF RIP RAP & 22 SY FABRIC



90

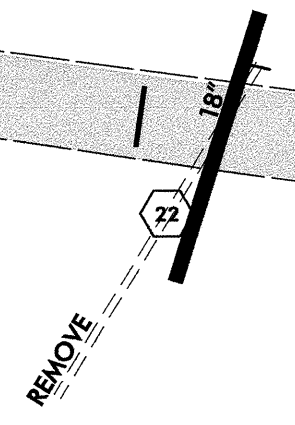
85

80

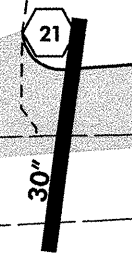
CONSTRUCT WIDENING AND WEDGING EXCLUDING THE FINAL LAYER OF SURFACE COURSE. SEE NOTES (TYP).

MATCHLINE -L- STA 91+00 SEE TCP-15

MATCHLINE -L- STA 77+00 SEE TCP-13

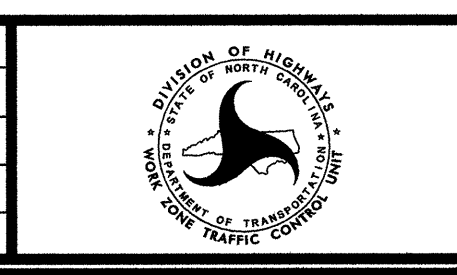


-L- NC 294



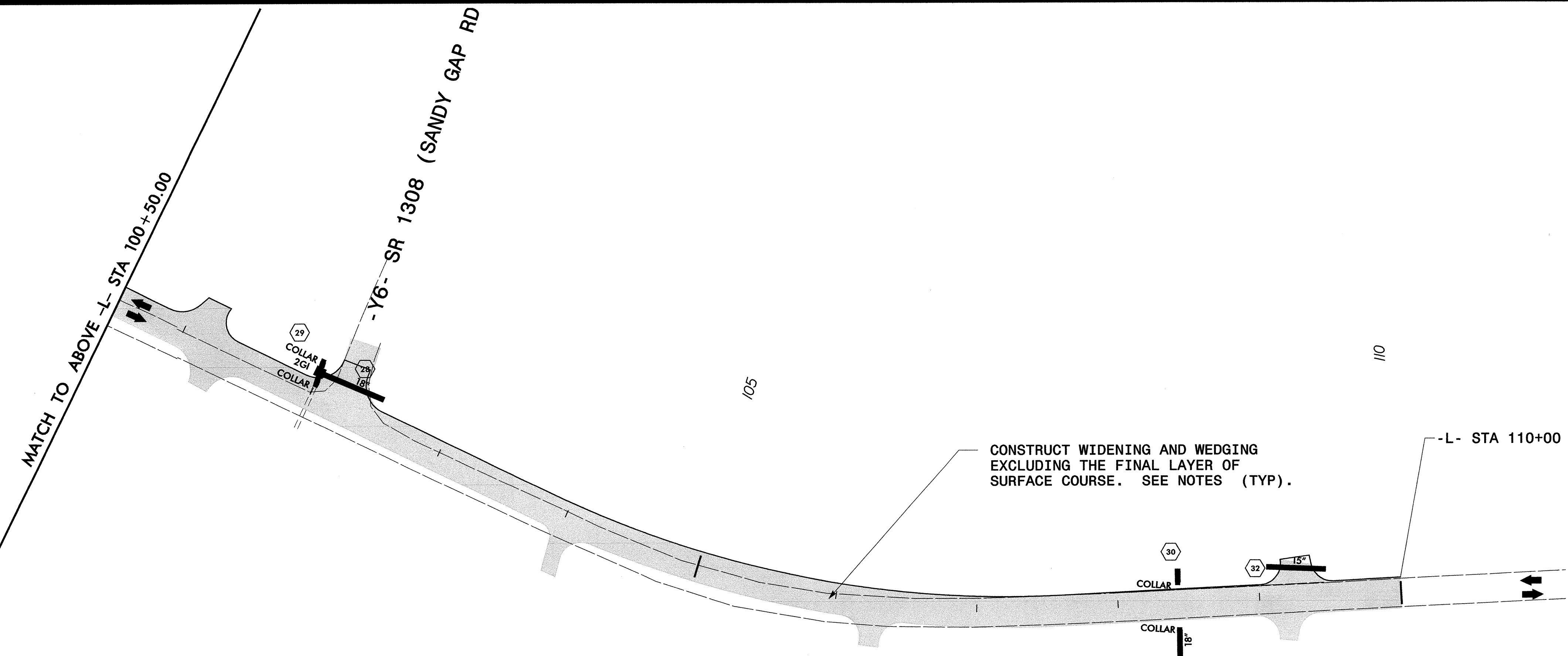
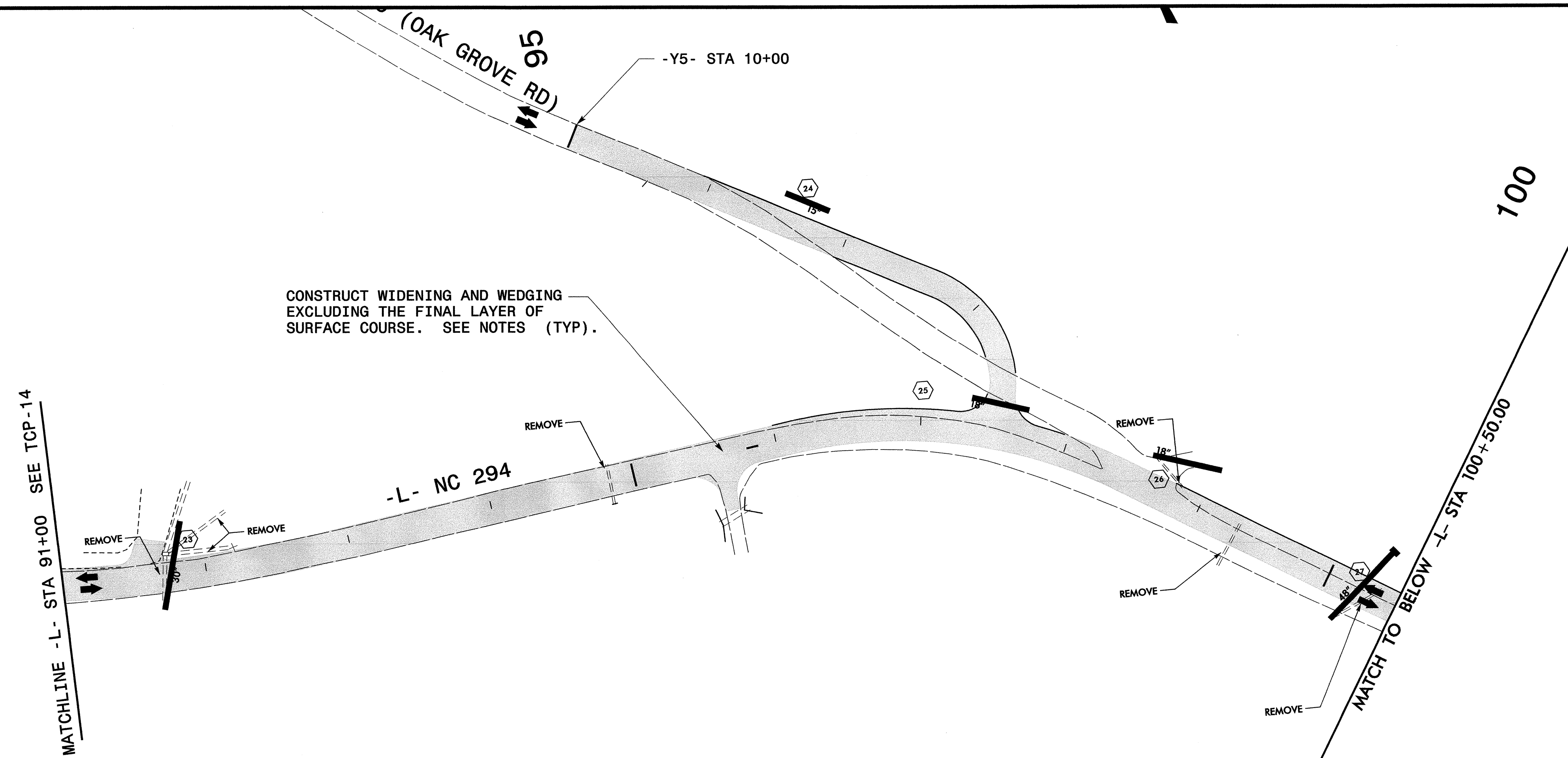
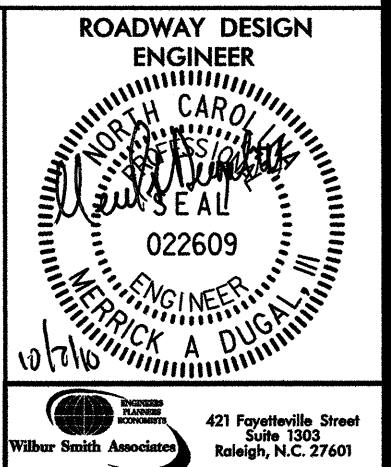
**TRAFFIC CONTROL DETAIL DRAWING
PHASE II**

SCALE: NONE
DATE: 10/2010
DWG. BY: KWB
DESIGN BY: MAD
REVIEWED BY: MAD

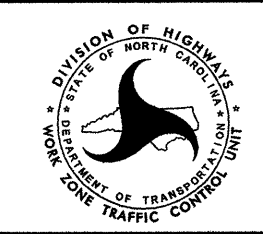


REVISIONS

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TRAFFIC CONTROL DETAIL DRAWING PHASE II	
SCALE: NONE	REVISIONS
DATE: 10/2010	
DWG. BY: KWB	
DESIGN BY: MAD	
REVIEWED BY: MAD	



FILE: c:\p04\10222a\trafficcontrol\3622ab\3622ab_tcp_p2a_pch10.dgn
 DATE: 10/2010 11:15:04 AM