

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

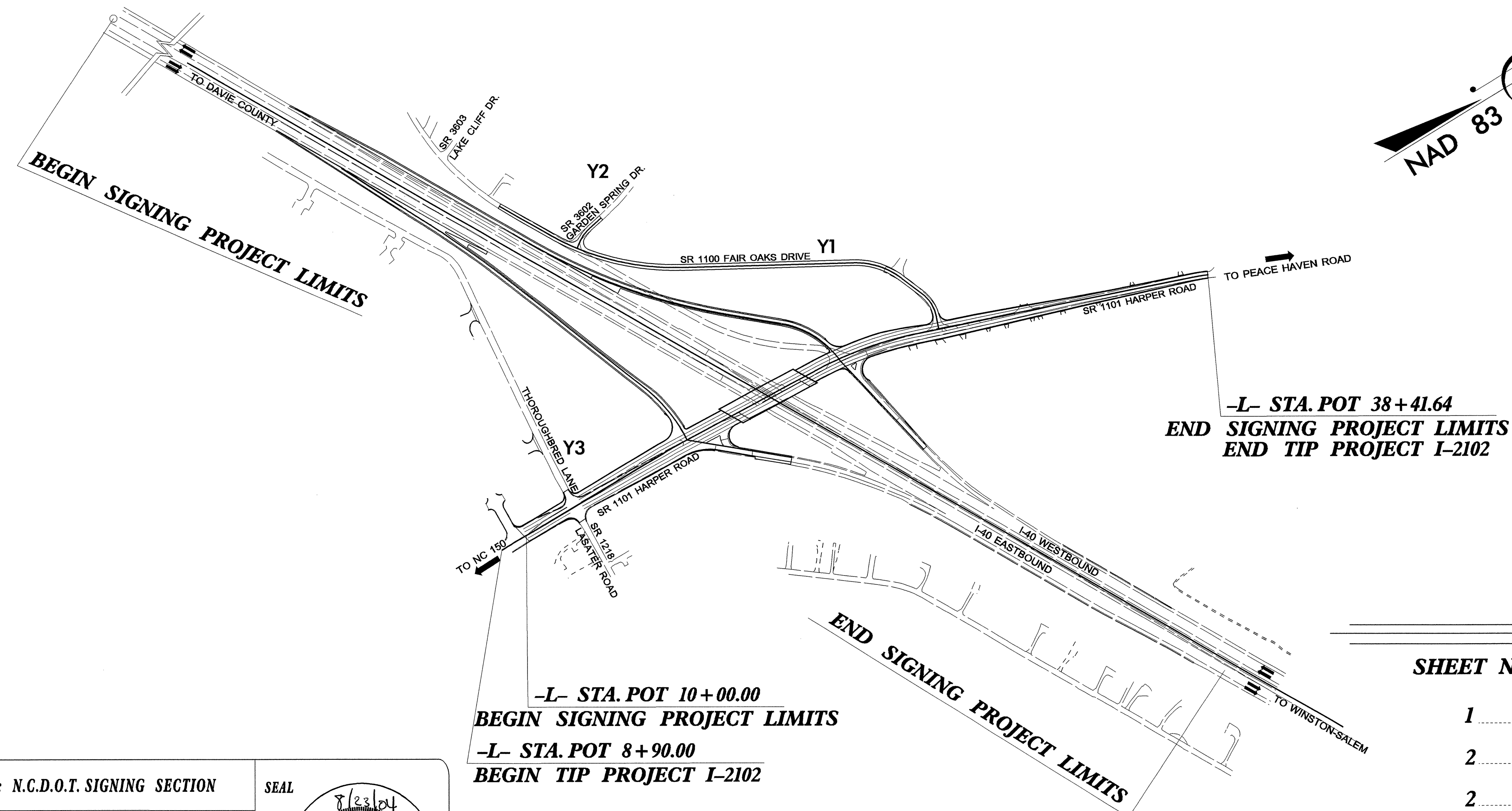
**SIGNING PLANS
FORSYTH COUNTY**

LOCATION:

**I-40 AT (SR1101) HARPER ROAD
INTERCHANGE, APPROX. 0.9 MILES EAST
OF THE YADKIN RIVER**

TIP: I-2102

CONTRACT: C201006



INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SUMMARY OF QUANTITIES
2	NOTES/SUPPORT CHART
3	E SHEETS
3	F and Milemarker SHEETS
4-II	SIGN ROADWAY SHEETS

PLAN PREPARED BY: N.C.D.O.T. SIGNING SECTION	SEAL
RON KING, P.E. SIGNING ENGINEER	
A. I. ALQUDWAH, P.E. SIGNING PROJECT ENGINEER	
K. L. JORDAN SIGNING PROJECT DESIGN ENGINEER	
K. S. FOWLER SIGNING DESIGNER	

SIGNS SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
404800000	902	REINFORCED CONCRETE SIGN FOOTINGS.....	2	C.Y.
405400000	902	PLAIN CONCRETE SIGN FOOTINGS.....	1	C.Y.
406000000	903	SUPPORTS, BREAKAWAY STEEL BEAM.....	1133	LB.
407200000	903	SUPPORTS, 3 LB STEEL U-CHANNEL.....	1265	L.F.
411000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED).....	3	EA.
411000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED).....	2	EA.
409600000	904	SIGN ERECTION, TYPE D.....	7	EA.
410200000	904	SIGN ERECTION, TYPE E.....	34	EA.
410800000	904	SIGN ERECTION, TYPE F.....	8	EA.
412900000	906	RELOCATE SIGN, TYPE D.....	2	EA.
411500000	904	SIGN ERECTION, OVERLAY (OVERHEAD).....	3	EA.
415500000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL.....	33	EA.
419200000	907	DISPOSAL OF SUPPORT, U-CHANNEL.....	2	EA.

General Notes:

- . SIGNS FURNISHED BY STATE
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKINGS. SEE TRAFFIC CONTROL PLANS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE III REFLECTIVE SHEETING. SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

Pay Item Notes:

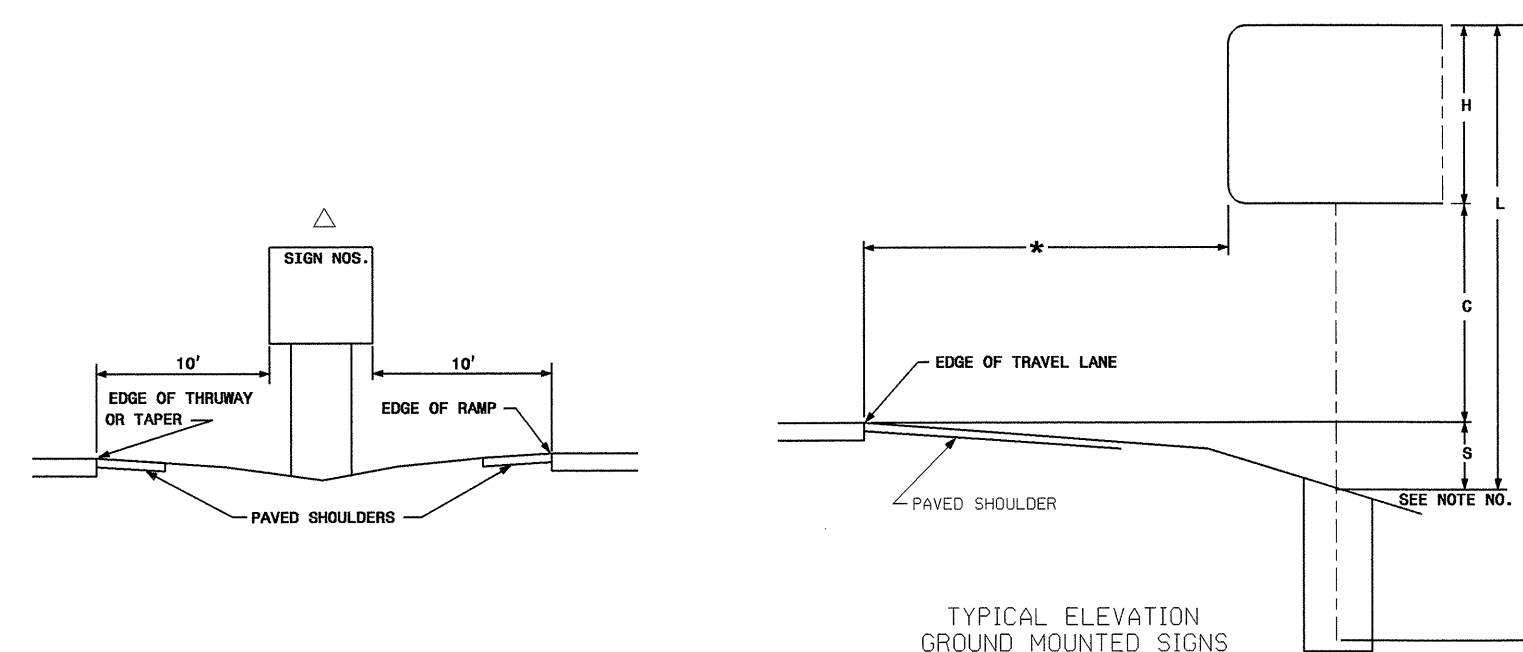
- | | |
|---|------------------------------------|
| 1 | DISPOSAL OF SIGN SYSTEM, U-CHANNEL |
| 2 | DISPOSAL OF SUPPORT, U-CHANNEL |
| 3 | RELOCATE SIGN, TYPE D |
| 4 | DISPOSAL OF SIGN, D, E OR F |
| 5 | SIGN ERECTION, OVERLAY (OVERHEAD) |

NOTES

- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.
- FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (*) ARTICLE 1072-1. (*) = N.C.D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES

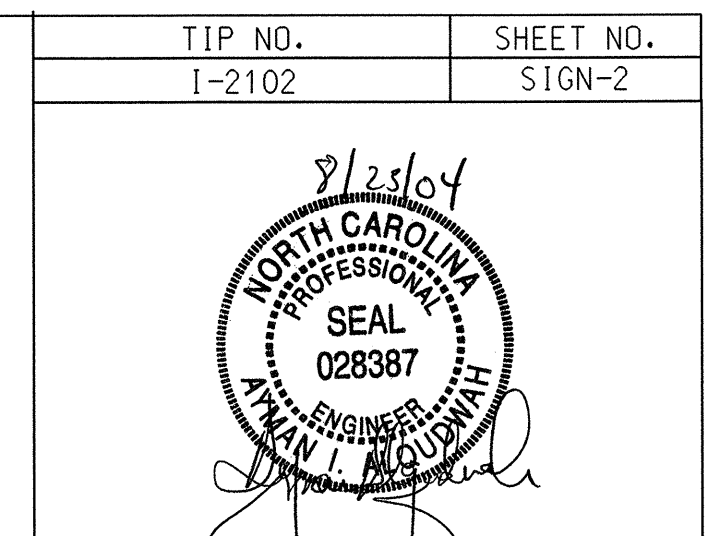
TYPE "A" AND TYPE "B" GROUND MOUNTED SIGNS

SIGN NO.	SIGN TYPE	SIGN SIZE (w x h)	ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE	HORIZ. CLEAR. (ft.)	EXIT NUMBER ATTACH. METHOD	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			B/A SUPPORT WEIGHTS (lbs.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REIN. FTGS. (c.y.)	PLAIN FTGS. (c.y.)	TOTAL WOOD SUPP. (L.F.)	TOTAL WOOD SUPP. (FBM)										
									SNS	HT	MTG HT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH																
101A	B	102 X30	12+00 -Y4-	2	W6X15	BA	30.00	1	7.00	7.00	2.42	0.82	14.83	17.25	N/A																					
101B	A	174 X 84	100ft																																	
102A	B	102 X30	100ft Brig	2	S5X10	BA	30.00	1	5.50	8.68	2.67	-1.68	12.50	15.17	N/A																					
102B	A	174 X66																																		
201	A	90 X60	23+00 -Y4-	2	S4X7.7	BA	10.00	N/A	5.00	7.00	3.17	0.65	12.67	15.83	N/A																					
																					TOTAL	1132.66	TOTAL	0.00	TOTAL	1.0472	TOTAL	0.5962	TOTAL		TOTAL					
																					USE:	1133		0		2		1								




APPLICABLE TO THESE SIGNING PLANS

901.10	904.10
901.50	904.20
903.10	904.50




402 QUANTITY REQ'D 4



48 X 60
R2-1

TWO "U" POSTS PER SIGN

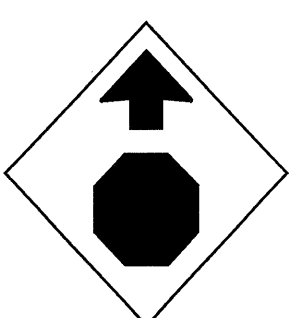
410 QUANTITY REQ'D 4



36 X 24
R5-1a

ONE "U" POST PER SIGN

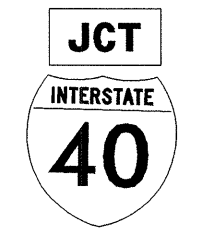
439 QUANTITY REQ'D 1



36 X 36
W3-1a

ONE "U" POST PER SIGN


501 505



JCT 1 - 21" X 15"
INTERSTATE 40 1 - 24" X 24"

ONE U-CHANNEL POST

403 QUANTITY REQ'D 4



24 X 30
R2-1

ONE "U" POST PER SIGN

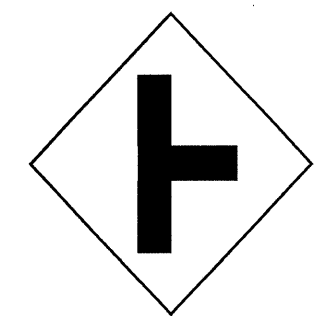
411 QUANTITY REQ'D 4



30 X 30
R5-1

ONE "U" POST PER SIGN

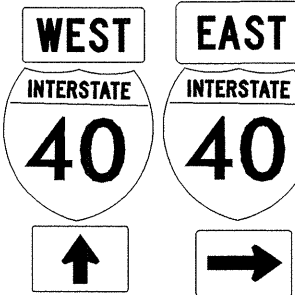
446 QUANTITY REQ'D 1



36 X 36
W2-2

ONE "U" POST PER SIGN

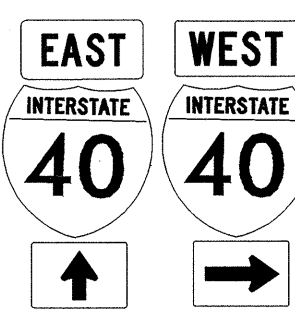
502



WEST EAST 2 - 24" X 12"
INTERSTATE INTERSTATE 40 40 2 - 24" X 24"
↑ → 2 - 21" X 15"

TWO U-CHANNEL POSTS

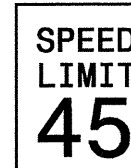
506



EAST WEST 2 - 24" X 12"
INTERSTATE INTERSTATE 40 40 2 - 24" X 24"
↑ → 2 - 21" X 15"

TWO U-CHANNEL POSTS

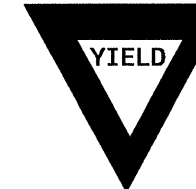
404 QUANTITY REQ'D 2



24 X 30
R2-1

ONE "U" POST PER SIGN

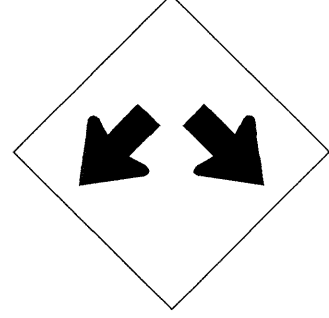
412 QUANTITY REQ'D 1



36 X 36 X 36
R1-2

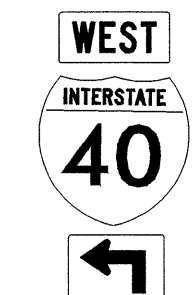
ONE "U" POST PER SIGN

452 QUANTITY REQ'D 1



ONE "U" POST PER SIGN

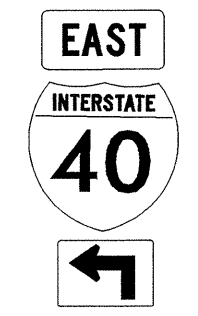
503



WEST 1 - 24" X 12"
INTERSTATE 40 1 - 24" X 24"
← 1 - 21" X 15"

ONE U-CHANNEL POST

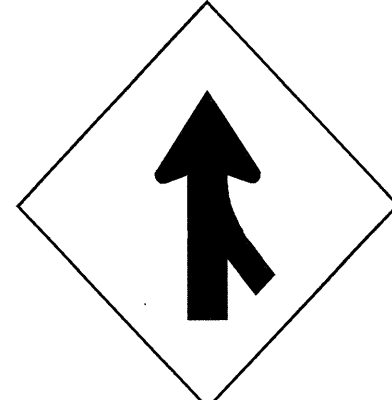
507



EAST 1 - 24" X 12"
INTERSTATE 40 1 - 24" X 24"
← 1 - 21" X 15"

ONE U-CHANNEL POST


406 QUANTITY REQ'D 1



48 X 48
W4-1 (R)

TWO "U" POSTS PER SIGN

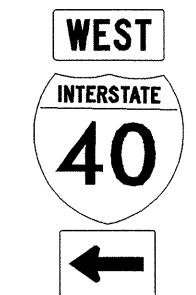
413 QUANTITY REQ'D 2



54 X 18
R6-1 (R)

TWO "U" POSTS PER SIGN

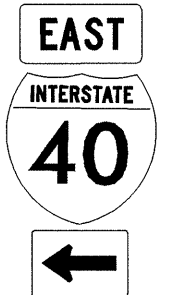
504



WEST 1 - 24" X 12"
INTERSTATE 40 1 - 24" X 24"
← 1 - 21" X 15"

ONE U-CHANNEL POST
TO BE MOUNTED UNDER SIGN 304


508



EAST 1 - 24" X 12"
INTERSTATE 40 1 - 24" X 24"
← 1 - 21" X 15"

ONE U-CHANNEL POST
TO BE MOUNTED UNDER SIGN 303


408 QUANTITY REQ'D 7



36 X 36
R1-1

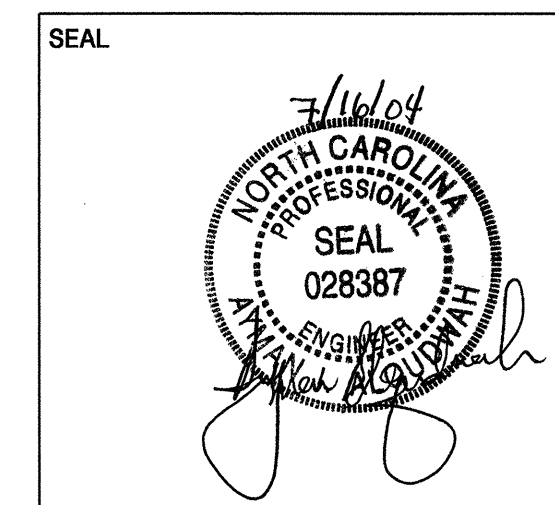
ONE "U" POST PER SIGN

414 QUANTITY REQ'D 2

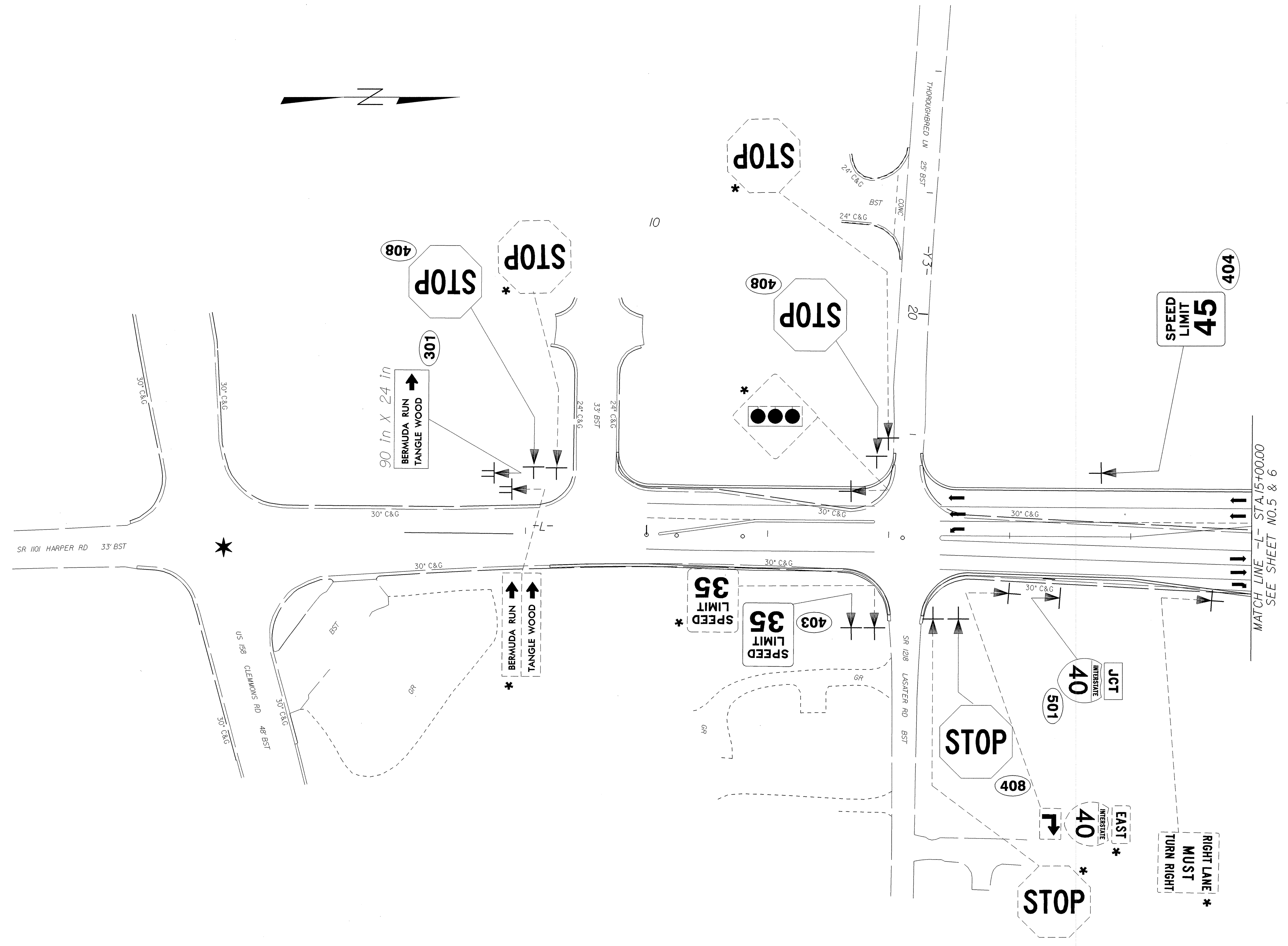


54 X 18
R6-1 (L)

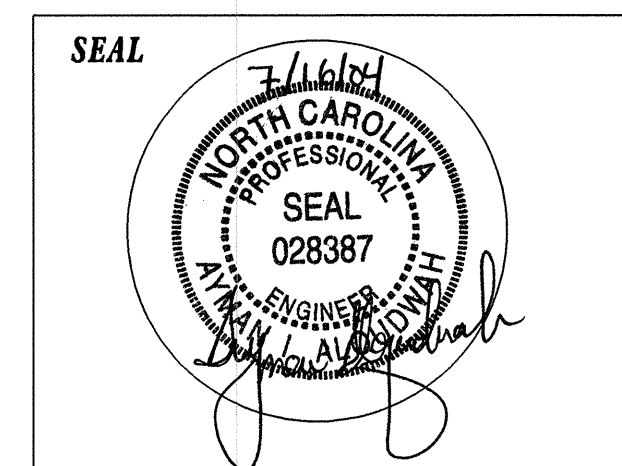
TWO "U" POSTS PER SIGN



TYPE "E" SIGNS
TYPE "F" SIGNS

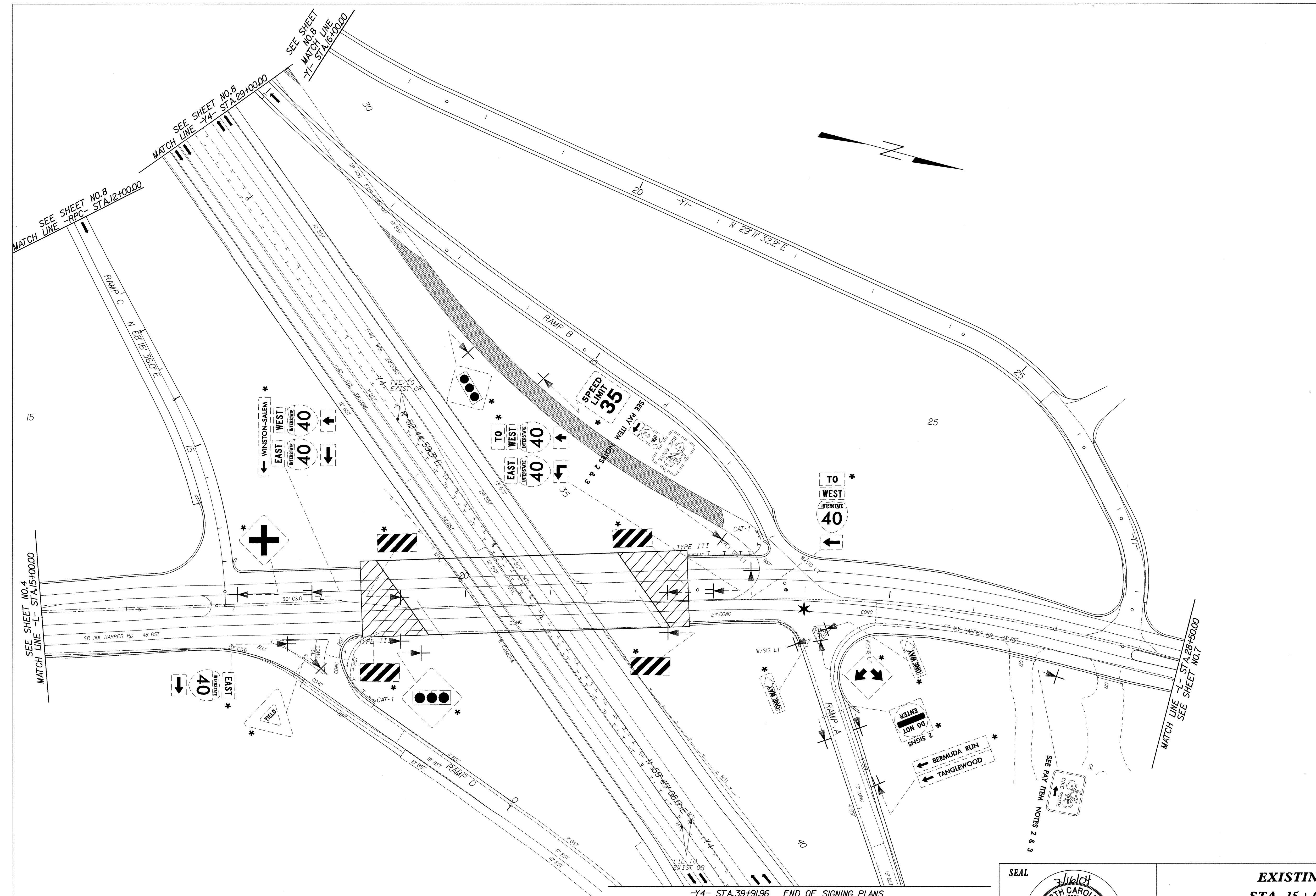


* SIGNALIZED
 ** PLEASE SEE PAY ITEM NOTE 1



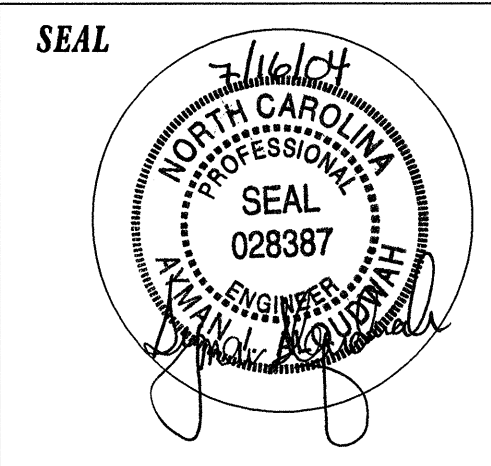
EXISTING/PROPOSED SIGNS
STA 8+90 TO 15+00
MAINLINE ROUTE DESCRIPTION

SCALE	NONE		REVISIONS
DATE	06-09-04		
DESIGN BY	K. Fowler		
REVIEWED BY	K. Jordan		
APPROVED BY	A. Alquodwah, P. E.		



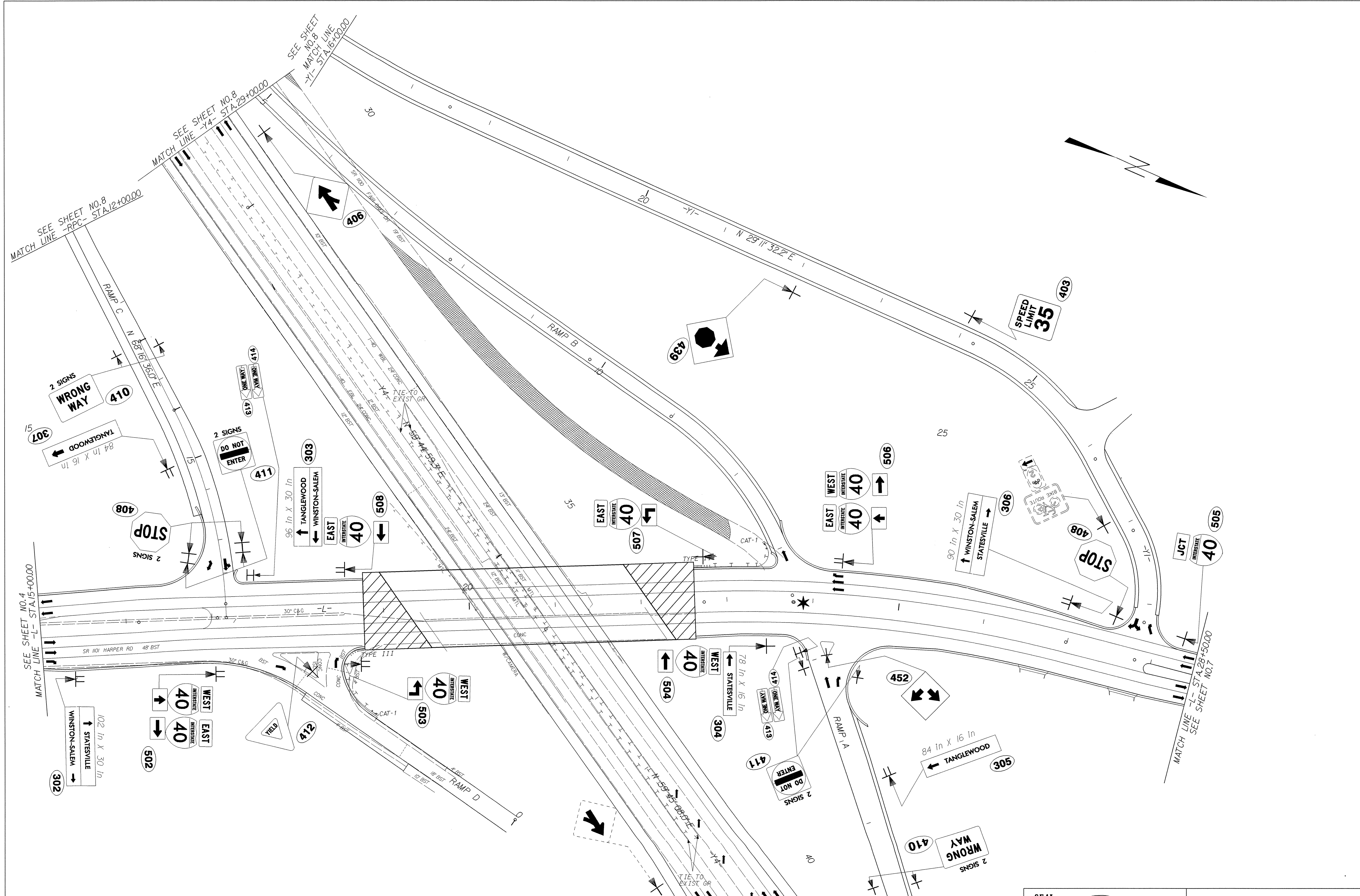
-Y4- STA.39+91.96 END OF SIGNING PLANS

- * SIGNALIZED
- * PLEASE SEE PAY ITEM NOTE 1



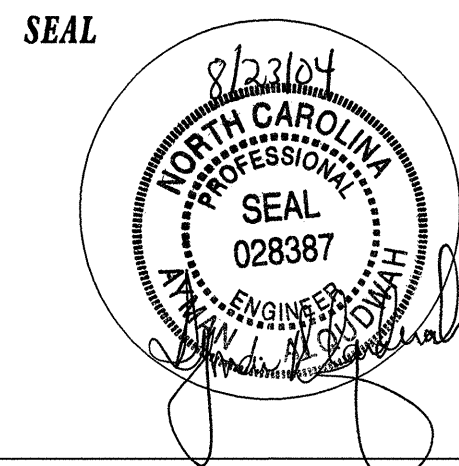
EXISTING SIGNS
STA 15+00 TO 28+50
MAINLINE ROUTE DESCRIPTION

SCALE	NONE		REVISIONS
DATE	06-09-04		
DESIGN BY	K. Fowler		
APPROVED BY	A. Alqudwah, P.E.		



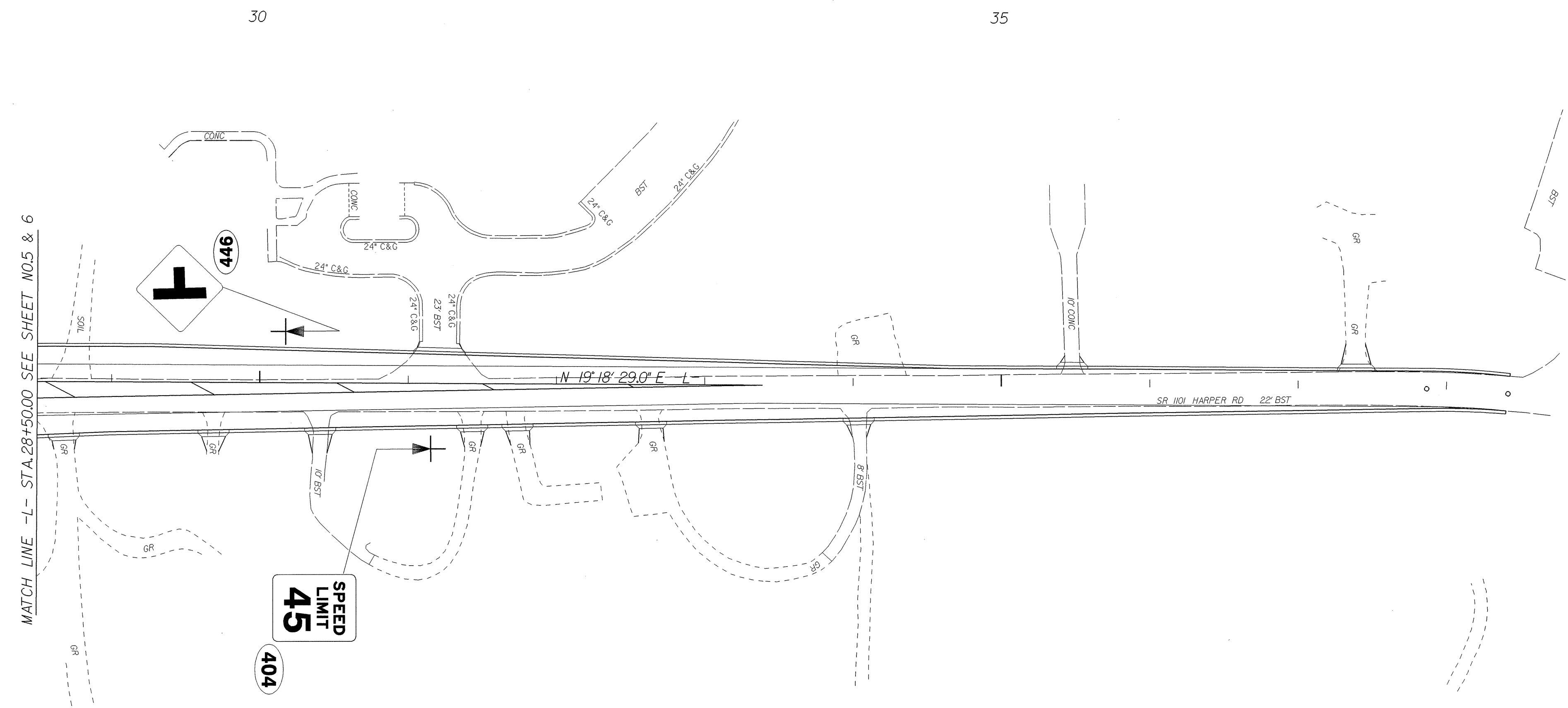
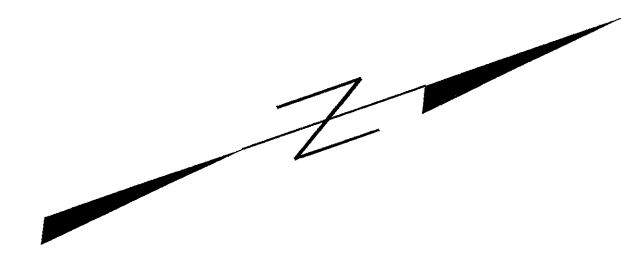
-Y4- STA.39+91.96 SEE SIGN SHEET II

★ SIGNALIZED
 ✱ PLEASE SEE PAY ITEM NOTE 1

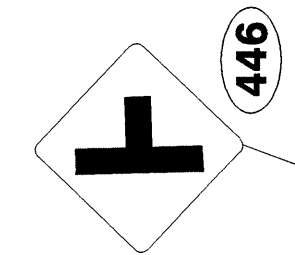


PROPOSED SIGNS
STA 15+00 TO 28+50
MAINLINE ROUTE DESCRIPTION

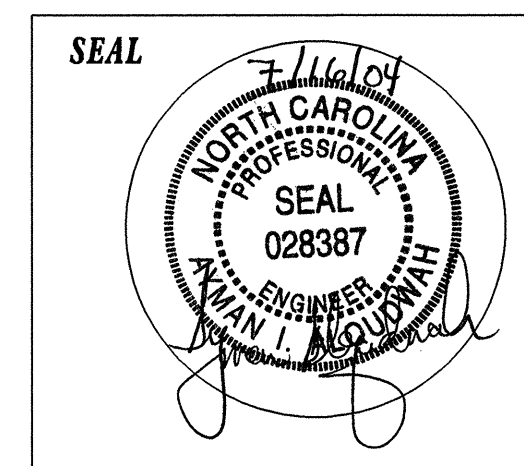
SCALE	NONE		REVISIONS
DATE	06-09-04		
DESIGN BY	K. Fowler		
REVIEWED BY	K. Jordan		
APPROVED BY	A. Alquodwah, P.E.		



MATCH LINE - L - STA. 28+50.00 SEE SHEET NO.5 & 6

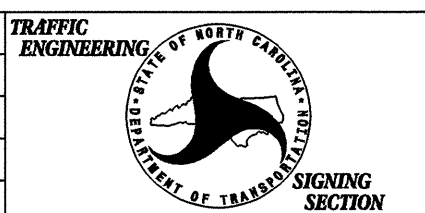


404

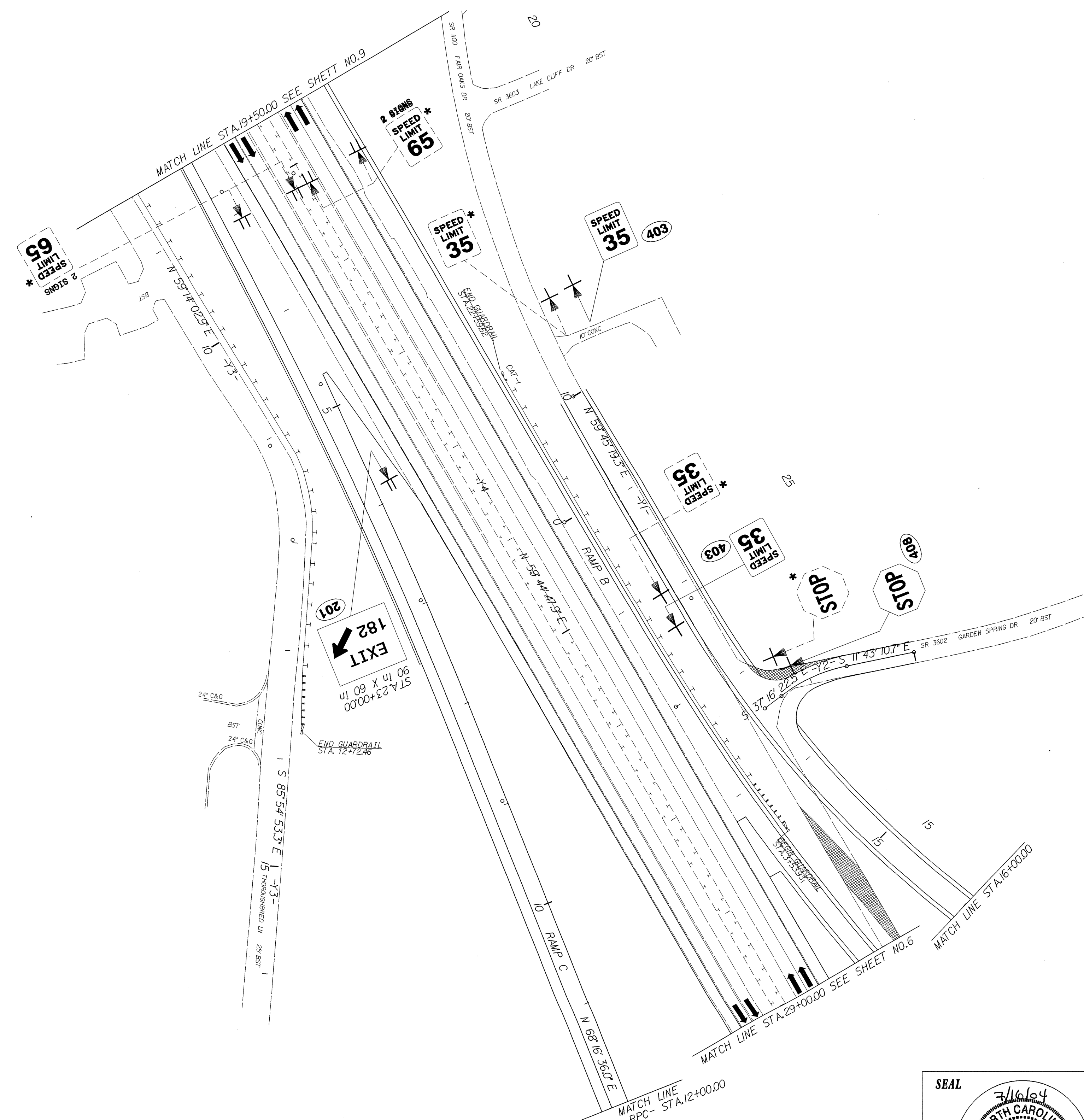


PROPOSED SIGNS
STA 28+50 TO 38+41.64
MAINLINE ROUTE DESCRIPTION

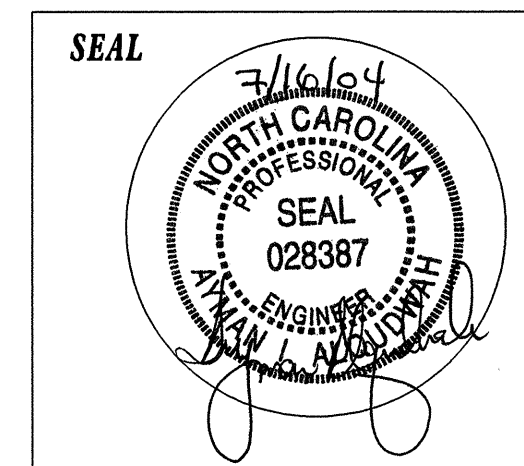
SCALE	NONE
DATE	06-09-04
DESIGN BY	K. Fowler
REVIEWED BY	K. Jordan
APPROVED BY	A. Alqudwah, P.E.



REVISIONS	

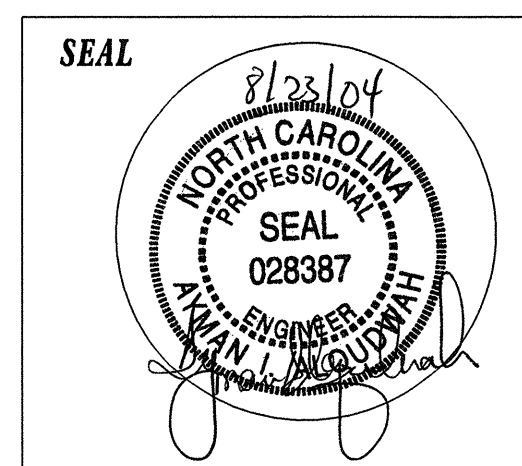
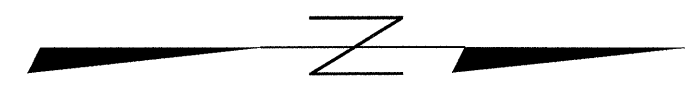
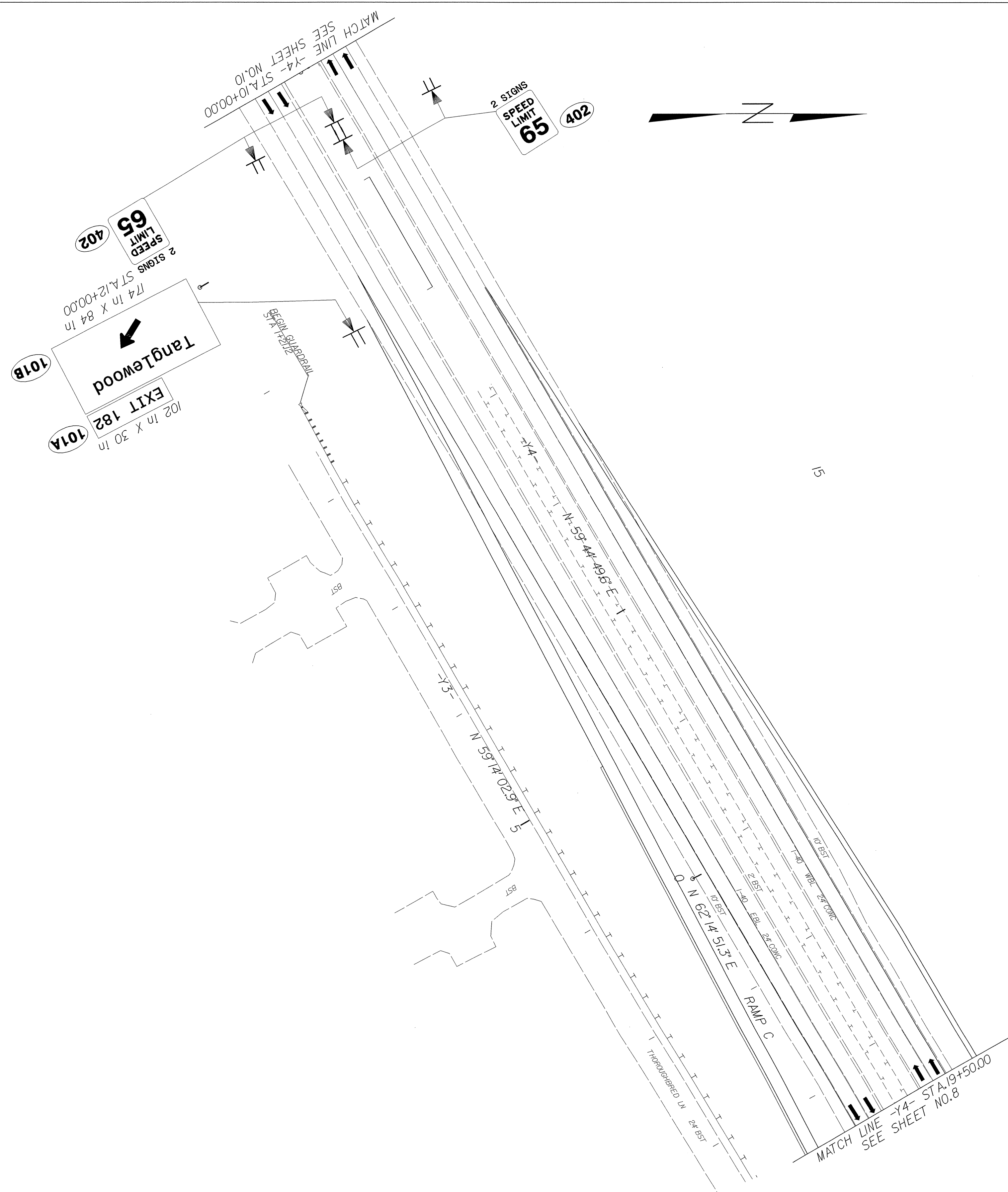


* PLEASE SEE PAY ITEM NOTE 1



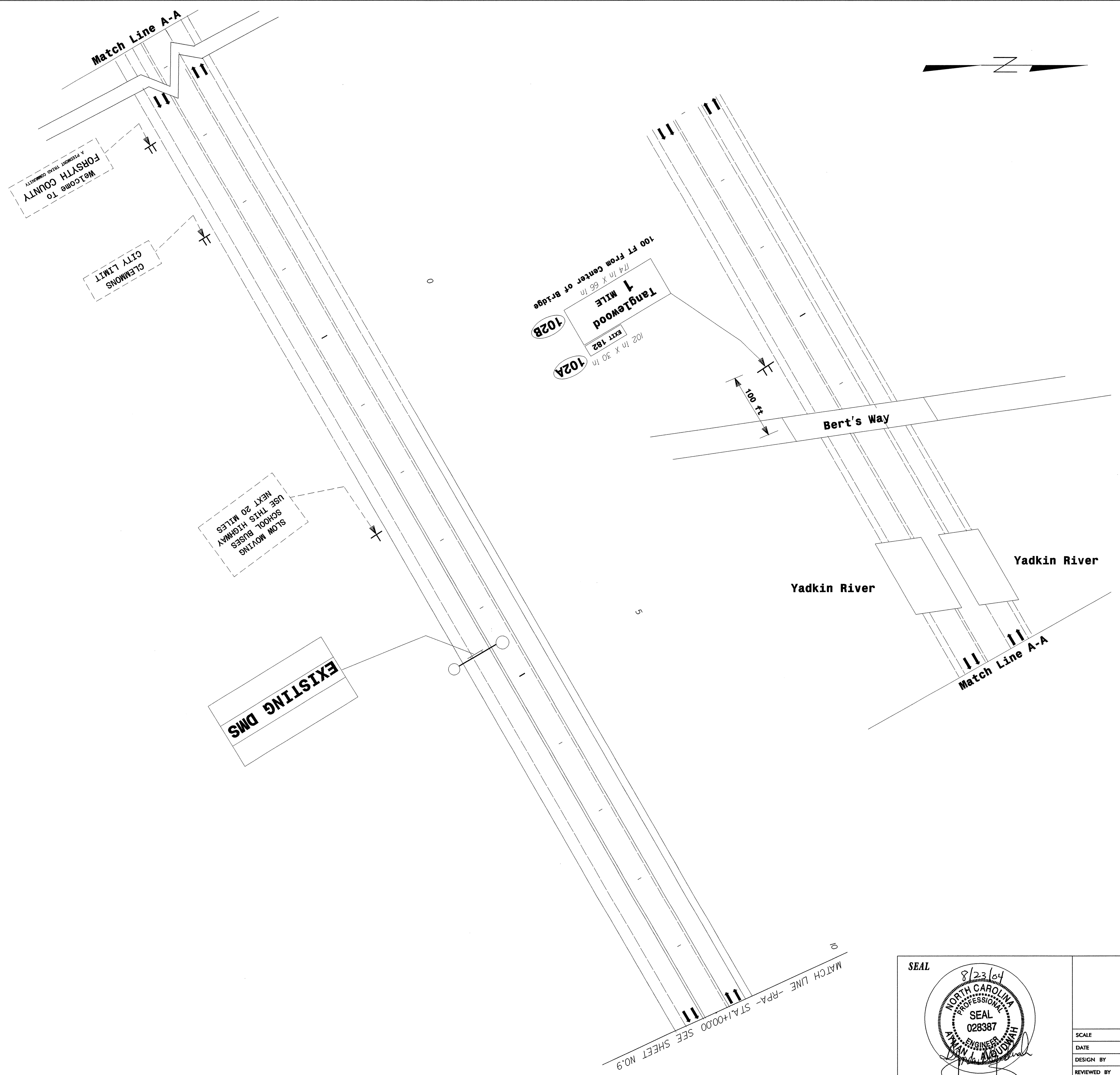
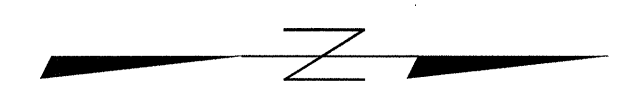
EXISTING/PROPOSED SIGNS
STA 29+00 TO 19+50
-Y4- ROUTE DESCRIPTION

SCALE	NONE		REVISIONS
DATE	06-09-04		
DESIGN BY	K. Fowler		
REVIEWED BY	K. Jordan		
APPROVED BY	A. Alkudwah, P.E.		



SCALE		NONE		TRAFFIC ENGINEERING		REVISIONS	
DATE	06-09-04						
DESIGN BY	K. Fowler						
REVIEWED BY	K. Jordan						
APPROVED BY	A. Alquist, P.E.						

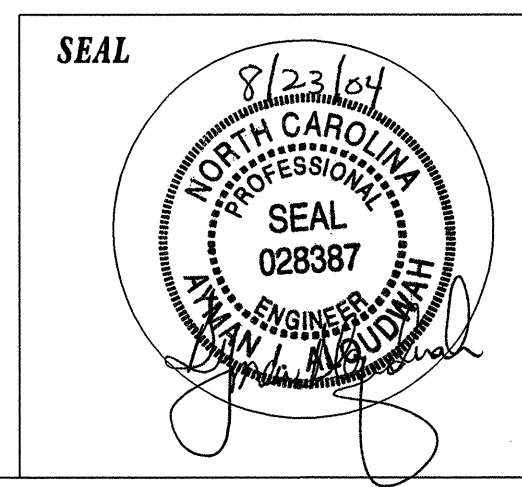
**EXISTING/PROPOSED SIGNS
STA 19+50 TO STA10+00
-Y4- ROUTE DESCRIPTION**



SLOW MOVING
SCHOOL BUSES
USE THIS HIGHWAY
NEXT 20 MILES

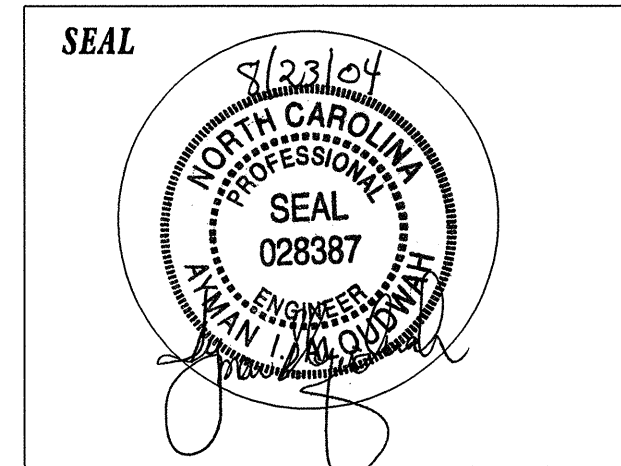
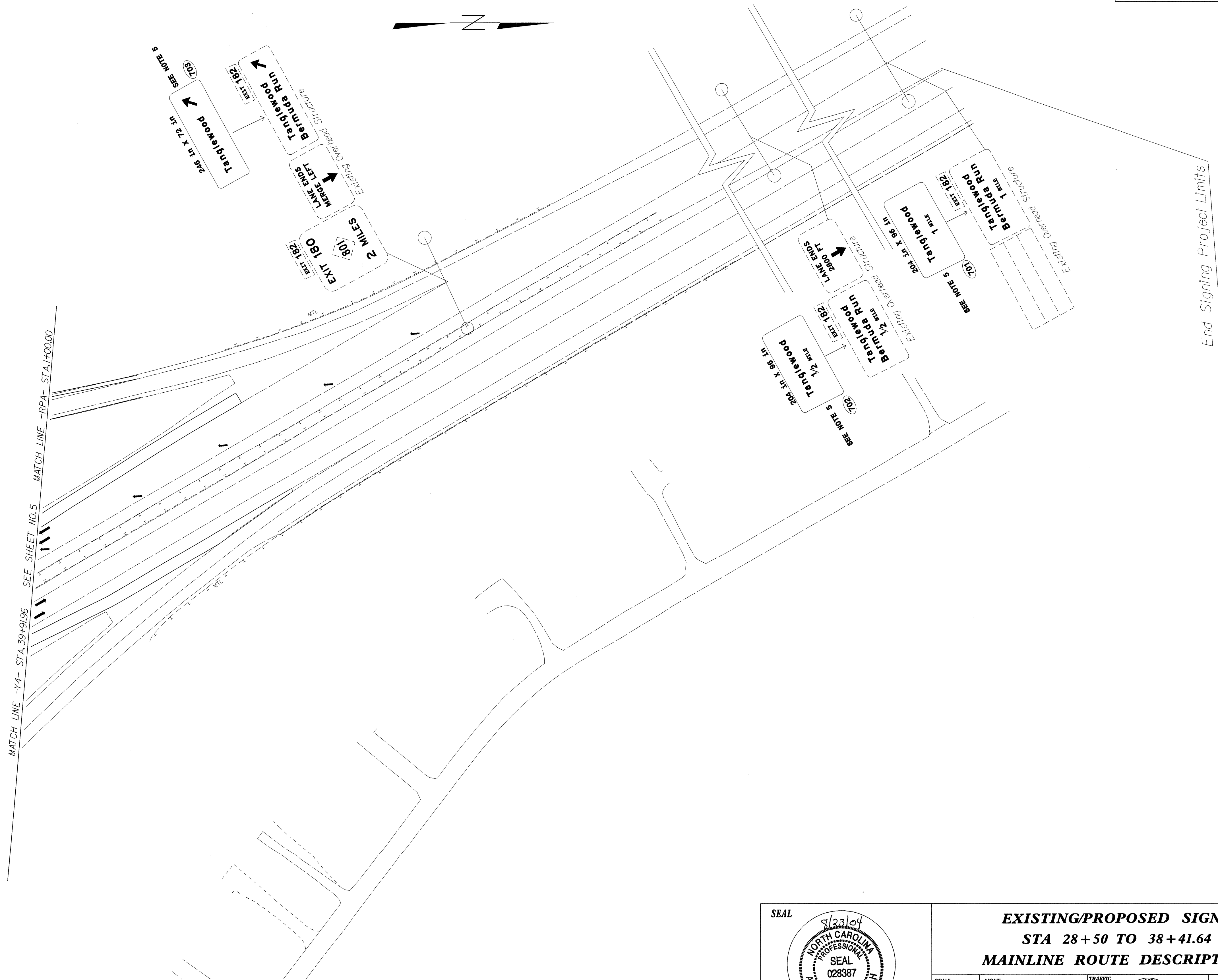
EXISTING DMS

100 FT FROM CENTER OF BRIDGE
Tanglewood
1 MILE
102B
102A



EXISTING/PROPOSED SIGNS
STA 10+00
-Y4- ROUTE DESCRIPTION

SCALE	NONE		REVISIONS
DATE	06-09-04		
DESIGN BY	K. Fowler		
REVIEWED BY	K. Jordan		
APPROVED BY	A. Alqudwah		



EXISTING/PROPOSED SIGNS		STA 28+50 TO 38+41.64		MAINLINE ROUTE DESCRIPTION	
SCALE	NONE	TRAFFIC ENGINEERING		REVISIONS	
DATE	06-09-04				
DESIGN BY	K. Fowler				
REVIEWED BY	K. Jordan				
APPROVED BY	A. Alquodwah, P.E.				