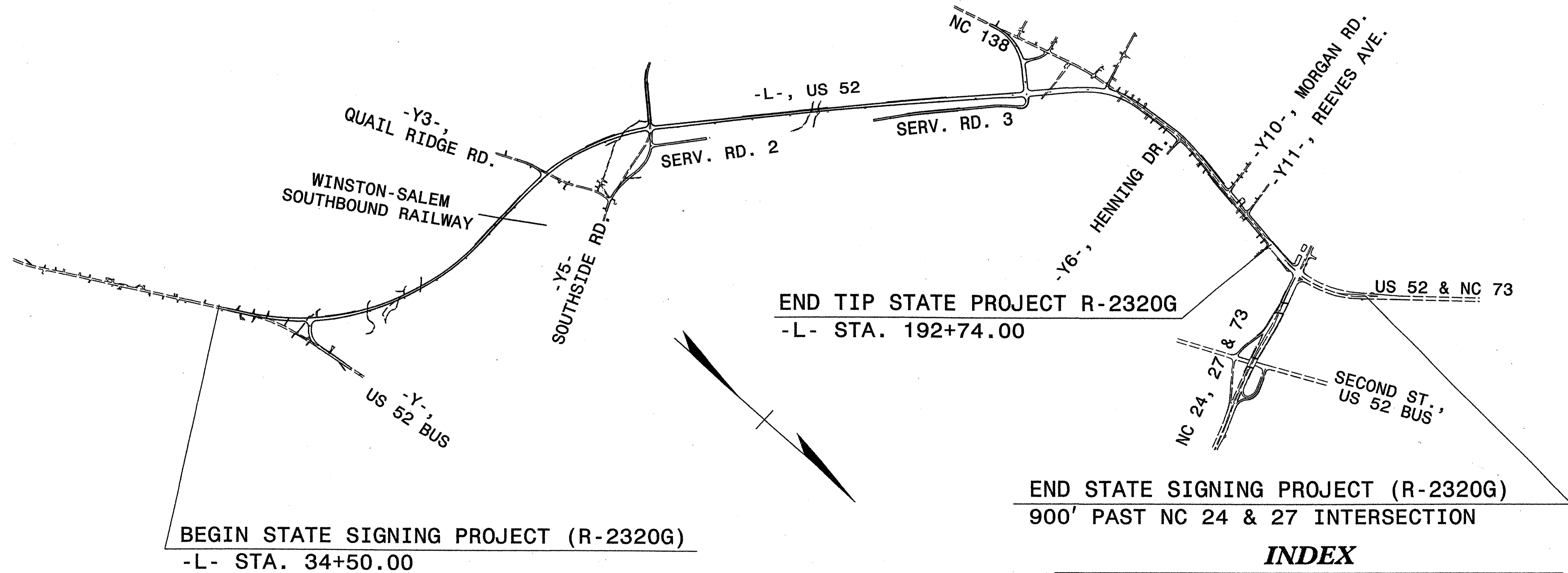


**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS
STANLY COUNTY**

**LOCATION: ALBEMARLE - US 52 EXTENSION FROM THE
INTERSECTION OF US 52, NC 73, NC 24-27 & NC 138 TO
INTERSECTION OF US 52 AND SR 1785 (JOHNS RD.)**



**END STATE SIGNING PROJECT (R-2320G)
900' PAST NC 24 & 27 INTERSECTION**

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SUMMARY OF QUANTITIES
3	NOTES
4	SUPPORT INFORMATION
5	E SHEETS
6 and 7	F SHEETS
8 thru 15	SIGN ROADWAY SHEETS

CONTRACT: 34422.1.1 T.I.P.: R-2320G

PLAN PREPARED FOR N.C.D.O.T. BY:		
MARK S. ACUFF, P.E.	SIGNING ENGINEER	
GARY E. PARKER	SIGNING PROJECT ENGINEER	
	SIGNING PROJECT DESIGN ENGINEER	
BRETT L. MARIOTTE	SIGNING DESIGNER	
		SEAL 09-07-05

SIGNS

SUMMARY OF QUANTITIES

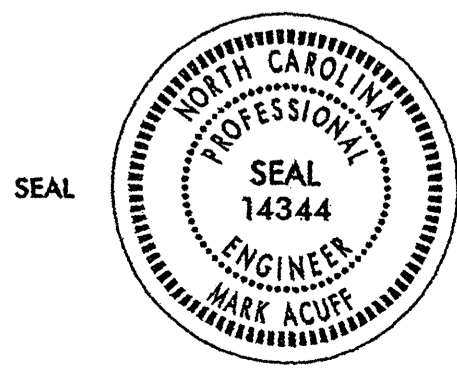
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT	ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT	ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.				DESC. NO.	SECT. NO.				DESC. NO.	SECT. NO.			
0001000000	800	MOBILIZATION		L.S.	4129500000	906	RELOCATE SUPPORT, WOOD		EA.	4082200000	SP	OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4025000000	901	CONTRACTOR FURNISHED, TYPE A SIGN		S.F.	4138000000	907	DISPOSAL OF SUPPORT, STEEL BEAM		EA.	4082200000	SP	OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4025000000	901	CONTRACTOR FURNISHED, TYPE B SIGN		S.F.	4141000000	907	DISPOSAL OF SUPPORT, WOOD		EA.	4082200000	SP	OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4025000000	901	CONTRACTOR FURNISHED, TYPE D SIGN		S.F.	4143000000	907	DISPOSAL OF SUPPORT, OVERHEAD STRUCTURE		EA.	4082200000	SP	OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN		S.F.	4149000000	907	DISPOSAL OF SIGN SYSTEM, OVERHEAD		EA.	4083200000	SP	OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-***"		L.S.
4025000000	901	CONTRACTOR FURNISHED, TYPE F SIGN		S.F.	4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	3	EA.	4083200000	SP	OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-***"		L.S.
4025000000	901	CONTRACTOR FURNISHED, OVERLAYS SIGN		S.F.	4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	55	EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4025000000	901	CONTRACTOR FURNISHED, MILEMARKER SIGN		S.F.	4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	2	EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4048000000	902	REINFORCED CONCRETE SIGN FOOTINGS	1	C.Y.	4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL		EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4054000000	902	PLAIN CONCRETE SIGN FOOTINGS	2	C.Y.	4234000000	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)		EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4056000000	902	OVERHEAD FOOTING		EA.	4236000000	907	DISPOSAL OF SIGN, A OR B (GROUND MOUNTED)		EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	1021	LB.	4238000000	907	DISPOSAL OF SIGN, D, E OR F		EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM	643	LB.	4238500000	907	DISPOSAL OF SIGN, MILEMARKERS		EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	2523	L.F.	4241000000	907	DISPOSAL OF SIGN, OVERLAY (OVERHEAD)		EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4078000000	903	SUPPORTS, 2 LB STEEL U-CHANNEL		EA.	4242000000	907	DISPOSAL OF SIGN, OVERLAY (GROUND MOUNTED)		EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4079000000	903	SUPPORTS, BARRIER (SMALL)		EA.	4251000000	907	DISPOSAL OF LIGHTING SYSTEM		EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4080000000	903	SUPPORTS, BARRIER (LARGE)		EA.	4258000000	907	DISPOSAL OF LIGHTING FIXTURES		EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4081000000	903	SUPPORTS, OVERHEAD STRUCTURE " "		L.S.	4263000000	907	DISPOSAL OF WALKWAY		EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4081000000	903	SUPPORTS, OVERHEAD STRUCTURE " "		L.S.	4132000000	907	STOCKPILE SUPPORT, STEEL BEAM		EA.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4082000000	903	SUPPORTS, WOOD		L.F.	4140000000	907	STOCKPILE SUPPORT, WOOD		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4109000000	904	SIGN ERECTION, TYPE A (OVERHEAD)		EA.	4142000000	907	STOCKPILE SUPPORT, OVERHEAD STRUCTURE		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4109000000	904	SIGN ERECTION, TYPE B (OVERHEAD)		EA.	4148000000	907	STOCKPILE SIGN SYSTEM, OVERHEAD		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	3	EA.	4151000000	907	STOCKPILE SIGN SYSTEM, STEEL BEAM		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	2	EA.	4154000000	907	STOCKPILE SIGN SYSTEM, U-CHANNEL		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4096000000	904	SIGN ERECTION, TYPE D	7	EA.	4157000000	907	STOCKPILE SIGN SYSTEM, WOOD		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4102000000	904	SIGN ERECTION, TYPE E	77	EA.	4186000000	907	STOCKPILE SUPPORT, U-CHANNEL		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4108000000	904	SIGN ERECTION, TYPE F	51	EA.	4228000000	907	STOCKPILE SIGN, A OR B (OVERHEAD)		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4114000000	904	SIGN ERECTION, MILEMARKERS		EA.	4235000000	907	STOCKPILE SIGN, A OR B (GROUND MOUNTED)		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4115000000	904	SIGN ERECTION, OVERLAY (OVERHEAD)		EA.	4237000000	907	STOCKPILE SIGN, D, E OR F		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4116000000	904	SIGN ERECTION, OVERLAY (GROUND MOUNTED)		EA.	4237500000	907	STOCKPILE SIGN, MILEMARKERS		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4116200000	904	SIGN ERECTION, REPOSITION OVERHEAD		EA.	4250000000	907	STOCKPILE LIGHTING SYSTEM		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4116300000	904	SIGN ERECTION, LOGO TO PANEL		EA.	4252000000	907	STOCKPILE LIGHTING FIXTURES		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4116400000	904	SIGN ERECTION, LOGO TRAILBLAZER		EA.	4262000000	907	STOCKPILE WALKWAY		EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4116500000	904	SIGN ERECTION, WALKWAY		L.F.	4277000000	908	TEMPORARY SIGN, TYPE A		S.F.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4126000000	905	SIGN LIGHTING SYSTEM " "		L.S.	4277000000	908	TEMPORARY SIGN, TYPE B		S.F.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4126000000	905	SIGN LIGHTING SYSTEM " "		L.S.	4277000000	908	TEMPORARY SIGN, TYPE D		S.F.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4126000000	905	SIGN LIGHTING SYSTEM " "		L.S.	4277000000	908	TEMPORARY SIGN, TYPE E		S.F.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4126000000	905	SIGN LIGHTING SYSTEM " "		L.S.	4277000000	908	TEMPORARY SIGN, TYPE F		S.F.	4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.
4126000000	905	SIGN LIGHTING SYSTEM " "		L.S.	4278000000	908	TEMPORARY RELOCATE SIGN, TYPE A		EA.	4355000000	SP	INTEGRATION INTO EXISTING DMS SYSTEM		L.S.
4129000000	906	RELOCATE SIGN, TYPE A (OVERHEAD)		EA.	4278000000	908	TEMPORARY RELOCATE SIGN, TYPE B		EA.	4355100000	SP	DYNAMIC MESSAGE SIGN SYSTEM "DMS-***"		L.S.
4129000000	906	RELOCATE SIGN, TYPE B (OVERHEAD)		EA.	4278000000	908	TEMPORARY RELOCATE SIGN, TYPE D		EA.	4355100000	SP	DYNAMIC MESSAGE SIGN SYSTEM "DMS-***"		L.S.
4129000000	906	RELOCATE SIGN, TYPE A (GROUND MOUNTED)		EA.	4278000000	908	TEMPORARY RELOCATE SIGN, TYPE E		EA.	4355200000	SP	DMS SYSTEM SERVER COMPUTER		EA.
4129000000	906	RELOCATE SIGN, TYPE B (GROUND MOUNTED)		EA.	4278000000	908	TEMPORARY RELOCATE SIGN, TYPE F		EA.	4355210000	SP	DMS SYSTEM CLIENT COMPUTER		EA.
4129000000	906	RELOCATE SIGN, TYPE D		EA.	4279000000	908	TEMPORARY RELOCATE SIGN SUPPORT, STEEL BEAM		EA.	4355220000	SP	DMS SYSTEM LAPTOP COMPUTER		EA.
4129000000	906	RELOCATE SIGN, TYPE E		EA.	4280000000	908	TEMPORARY RELOCATE SIGN SUPPORT, WOOD		EA.	4355230000	SP	DMS SYSTEM CONTROL SOFTWARE		EA.
4129000000	906	RELOCATE SIGN, TYPE F		EA.	4285000000	908	TEMPORARY SIGN COVERS		EA.	4355300000	SP	DYNAMIC MESSAGE SIGN MAINTENANCE TRAINING		EA.
4129000000	906	RELOCATE SIGN, MILEMARKERS		EA.	4082200000	SP	OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.	4355310000	SP	DYNAMIC MESSAGE SIGN SYSTEM DESIGN APPROVAL TESTS		EA.
4129200000	906	RELOCATE SUPPORT, OVERHEAD SIGN SYSTEM		EA.	4082200000	SP	OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.	4355320000	SP	DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FACTORY TESTS		L.S.
4129300000	906	RELOCATE SUPPORT, STEEL BEAM		EA.	4082200000	SP	OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.	4355330000	SP	DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FIELD TESTS		L.S.
4129400000	906	RELOCATE LIGHTING SYSTEM		EA.	4082200000	SP	OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.	4355340000	SP	DYNAMIC MESSAGE SIGN BENCH TEST UNIT		L.S.
					4082200000	SP	OVERHEAD SIGN ASSEMBLY AT STA.*****		L.S.	4355350000	SP	DYNAMIC MESSAGE SIGN SYSTEM NTCIP TESTS		L.S.

ROADWAY STANDARD DRAWINGS
APPLICABLE TO THESE SIGNING PLANS

901.10 903.10
901.20 904.10
901.50 904.30
901.70 904.50

Plans prepared by:
KO & ASSOCIATES, P.C.
Consulting Engineers
1011 SCHAEFF DR. SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

APPROVED: *Mark Acuff* DATE: 09-01-05



SUMMARY OF QUANTITIES

SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION	REVISIONS	
DATE:	9-06-05			
SIGNING TECHNICIAN:	B.L.M.	DIVISION OF HIGHWAYS		
SIGNING PROJ. DESIGN ENG.:	G.E.P.			
SIGNING PROJECT ENG.:	M.S.A.	TRAFFIC ENGINEERING BRANCH		

F:\signing\23200\PLANS\QUANTITIES.dwg 09/06/2005 11:35:16 AM

Pay Item Notes:

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 DISPOSAL OF SIGN SYSTEM, WOOD
- 3 DISPOSAL OF SIGN SYSTEM, STEEL BEAM

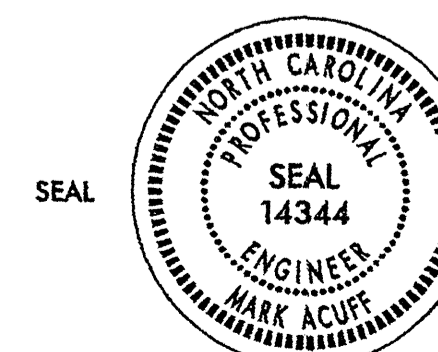
General Notes:

- 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
- ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- 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.
- THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT TO THE N.C.D.O.T. FOR APPROVAL, DETAIL DRAWINGS OF LUMINAIRE RETRIEVAL SYSTEM MOUNTING ON OHS ASSEMBLY.
- THE CONTRACTOR SHALL USE LUMINAIRE RETRIEVAL SYSTEM ON ALL OVERHEAD STRUCTURES. WALKWAY AND HANDRAIL IS NOT REQUIRED.
- INSTALLATION OF LUMINAIRE RETRIEVAL SYSTEM SHALL ALLOW LUMINAIRE MAINTENANCE FROM THE SHOULDER WITHOUT THE NEED FOR LANE CLOSURE. THE DRIVE HANDLE OF THE LUMINAIRE RETRIEVAL SYSTEM SHALL BE LOCATED A MINIMUM OF 0.92M (3') FROM THE RIGHT EDGE OF THE SHOULDER AWAY FROM THE ROADWAY TRAFFIC.
- THE CONTRACTOR SHALL ENSURE THAT COORDINATION IS ESTABLISHED BETWEEN THE OHS ASSEMBLY AND LUMINAIRE RETRIEVAL SYSTEM FABRICATORS SO THAT A FULLY FUNCTIONAL SIGN AND LIGHTING SYSTEM IS INSTALLED. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY OHS ASSEMBLY AND LUMINAIRE RETRIEVAL SYSTEM INCOMPATIBILITIES, OR INSTALLATION OF A LIGHTING SYSTEM NOT FUNCTIONING TO ITS INTENDED PURPOSE.
- DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

Project Notes:

Plans prepared by:
KO & ASSOCIATES, P.C.
 Consulting Engineers
 101 SCHAUB DR., SUITE #202
 RALEIGH, N.C. 27606
 For Division of Highways

APPROVED: *Mark Acuff* DATE: 09-07-05



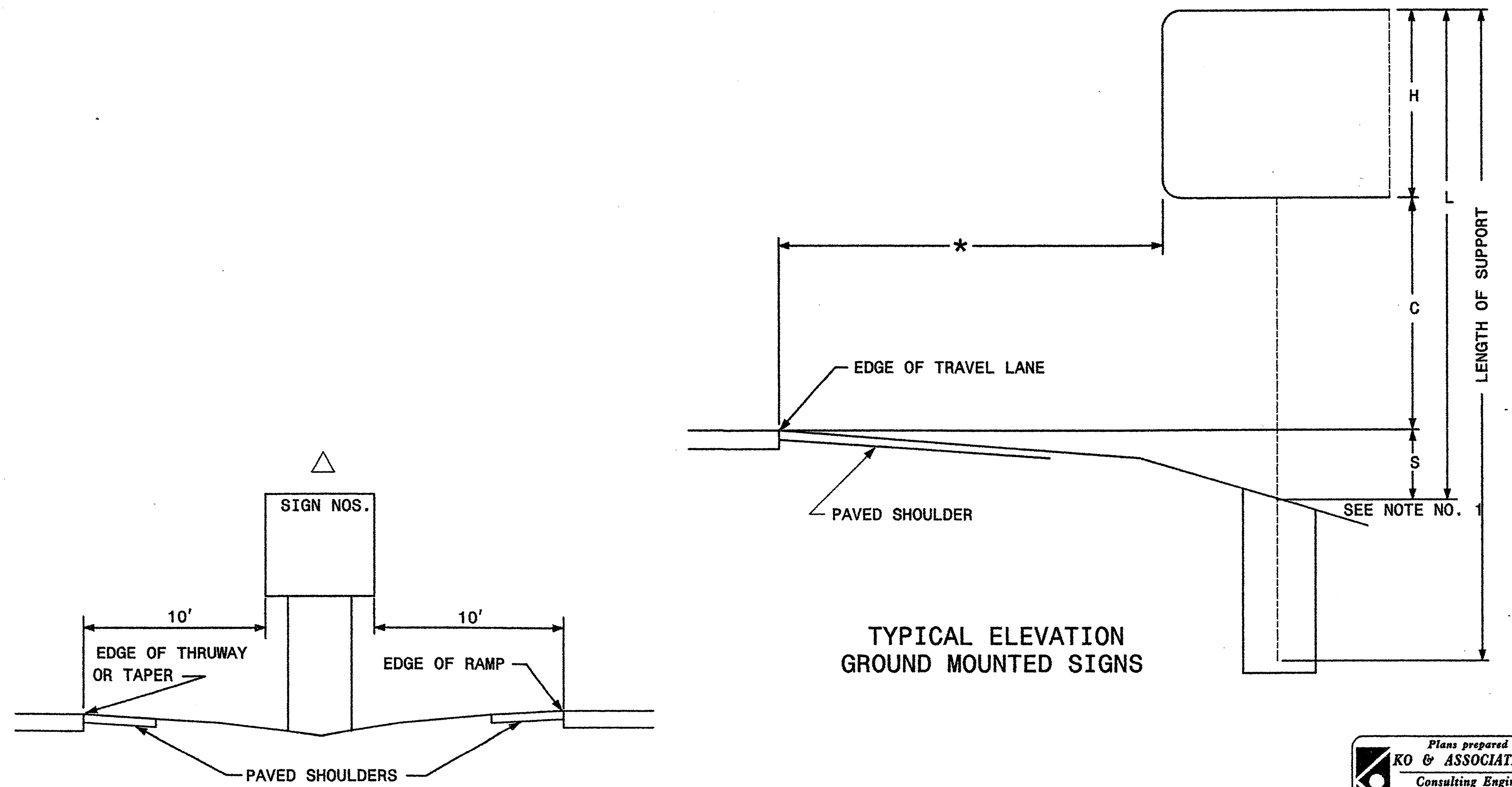
NOTES

SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH	REVISIONS	
DATE:	9-06-05			
SIGNING TECHNICIAN:	B.L.M.			
SIGNING PROJ. DESIGN ENG.:	G.E.P.			
SIGNING PROJECT ENG.:	M.S.A.			

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

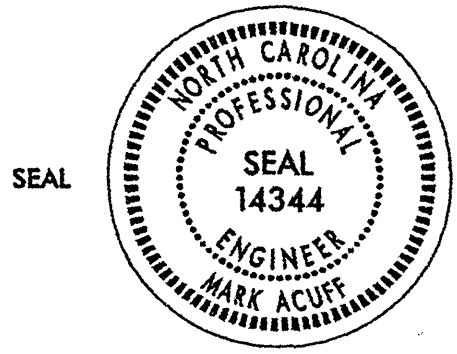
PROJECT ID: R-2320G

SIGN NO.	SIGN TYPE	SIGN SIZE (IN.) w x h	ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	HORIZ. CLR.* (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.)	REINF. FTGS. (CF)	PLAIN FTGS.	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
									SNS H	HT C	EMBED-MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH					
101	B	102 X 36	SEE SHEET SIGN-14	2	S4X7.7	BA	6	N/A	3.0	6.5	3.17	-0.5	9.00	12.17	N/A	N/A	N/A	-0.5	9.00	12.17	213.37	0.00	0.00	0.2036	
102	A	132 X 108	SEE SHEET SIGN-14	2	W4X13	S	20	N/A	9.0	7.0	1.92	1.02	17.00	18.92	N/A	N/A	N/A	1.38	17.42	19.33	0.00	497.25	0.4582	0.00	
103	B	102 X 36	SEE SHEET SIGN-14	2	S3X5.7	S	12	N/A	3.0	7.05	2.67	-0.05	10.00	12.67	N/A	N/A	N/A	0.15	10.17	12.83	0.00	145.35	0.00	0.1746	
104	A	132 X 96	SEE SHEET SIGN-15	2	S5X10	BA	30	N/A	8.0	7.72	2.67	-0.72	15.00	17.67	N/A	N/A	N/A	-0.85	14.83	17.5	393.67	0.00	0.00	0.3926	
105	A	132 X 108	SEE SHEET SIGN-15	2	S5X10	BA	30	N/A	9.0	7.62	2.67	-0.62	16.00	18.67	N/A	N/A	N/A	-0.79	15.83	18.5	413.67	0.00	0.00	0.3926	
									TOTAL			1020.71			642.60			0.4582			1.1634				
									USE			1021			643			1			2				



- NOTES
- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.
 - FIELD VERIFICATION SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (*) ARTICLE 1072-1.
 - PLAN LOCATION FOR EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE INFORMATION AND, THEREFORE MAY NOT BE PRECISELY ACCURATE. THEREFORE, IT IS INCUMBENT UPON THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF UTILITIES BEFORE BEGINNING WORK IN A LOCATION.

APPROVED: *Mark Acuff* DATE: 09-07-05



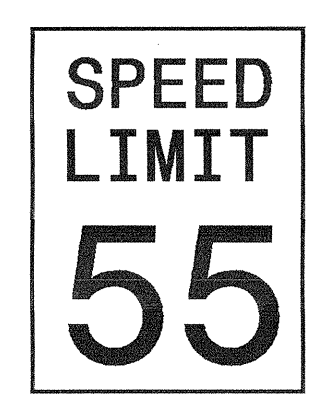
SUPPORT INFORMATION TYPE "A" & "B" SIGNS			
SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION	REVISIONS
DATE:	9-06-05		
SIGNING TECHNICIAN:	B.L.M.	DIVISION OF HIGHWAYS	
SIGNING PROJ. DESIGN ENG.:	G.E.P.		
SIGNING PROJECT ENG.:	M.S.A.	TRAFFIC ENGINEERING BRANCH	

Plans prepared by:
KO & ASSOCIATES, P.C.
Consulting Engineers
101 SCHAUB DR., SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

STATE	PROJECT NO.	SHEET NO.	TOTAL SHTS.
N. C.	R-2320G	SIGN-5	
F. A. PROJECT NO.		NH-52(10)	

THIS DOCUMENT ORIGINALLY
ISSUED AND SEALED BY
MARK ACUFF, P.E.,
#14344, ON 09-07-05.

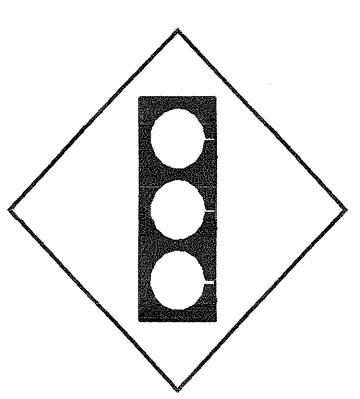
402 QUANTITY REQ'D 6



36 X 48
R2-1

TWO "U" POSTS PER SIGN

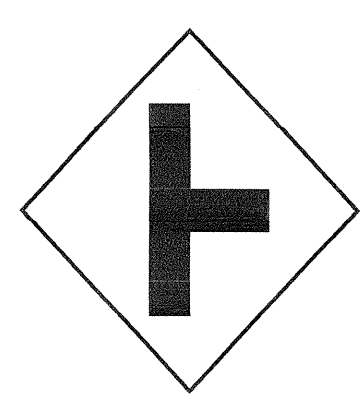
438 QUANTITY REQ'D 5



36 X 36
W3-3

ONE "U" POST PER SIGN

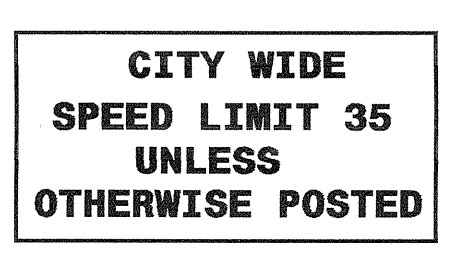
446 QUANTITY REQ'D 2



36 X 36
W2-2

ONE "U" POST PER SIGN

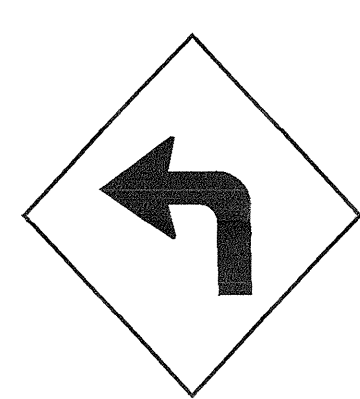
454 QUANTITY REQ'D 1



60 X 36
R2-27

MOUNT BELOW SIGN 302
IN 1 LOCATION

462 QUANTITY REQ'D 2



36 X 36
W1-1

ONE "U" POST PER SIGN

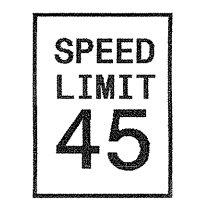
466 QUANTITY REQ'D 2



12 X 9
M7-1(R)

MOUNT BELOW SIGN 465
IN 2 LOCATIONS

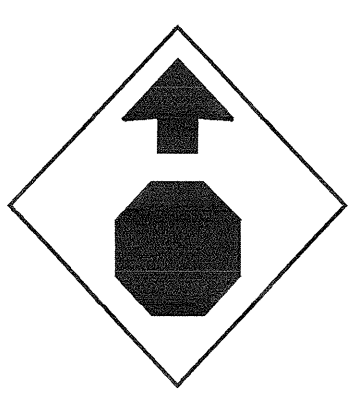
403 QUANTITY REQ'D 7



24 X 30
R2-1

ONE "U" POST PER SIGN

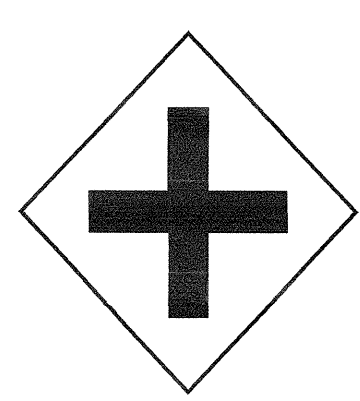
439 QUANTITY REQ'D 3



36 X 36
W3-1a

ONE "U" POST PER SIGN

448 QUANTITY REQ'D 2



36 X 36
W2-1

ONE "U" POST PER SIGN

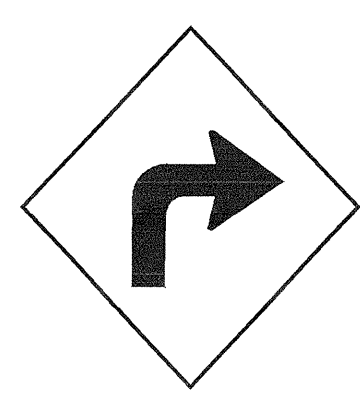
458 QUANTITY REQ'D 4



30 X 30
W14-2

ONE "U" POST PER SIGN

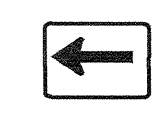
463 QUANTITY REQ'D 1



36 X 36
W1-1

ONE "U" POST PER SIGN

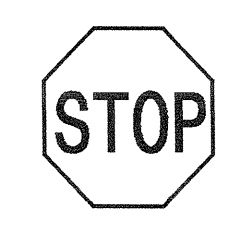
467 QUANTITY REQ'D 1



12 X 9
M7-1(L)

MOUNT BELOW SIGN 465
IN 1 LOCATIONS

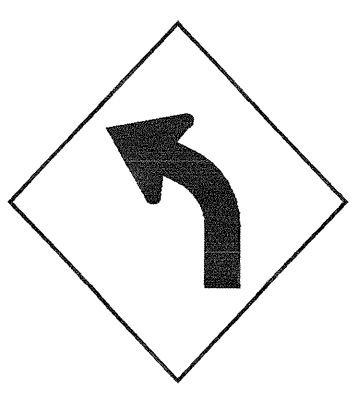
408 QUANTITY REQ'D 12



36 X 36
R1-1

ONE "U" POST PER SIGN

443 QUANTITY REQ'D 1



36 X 36
W1-2L

ONE "U" POST PER SIGN

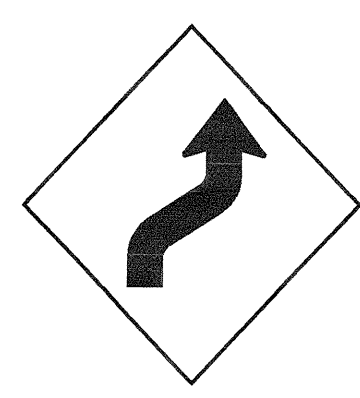
450 QUANTITY REQ'D 3



36 X 36
W11-1

ONE "U" POST PER SIGN

459 QUANTITY REQ'D 2



36 X 36
W1-4R

ONE "U" POST PER SIGN

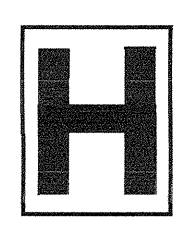
464 QUANTITY REQ'D 3



30 X 24
W16-1

MOUNT BELOW SIGN 450
IN 3 LOCATIONS

468 QUANTITY REQ'D 2



24 X 24
D9-2

ONE "U" POST PER SIGN

470 QUANTITY REQ'D 1



30 X 30
W14-1

ONE "U" POST PER SIGN

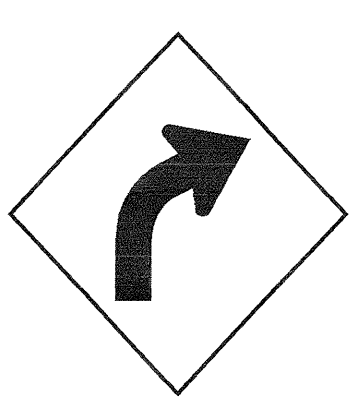
433 QUANTITY REQ'D 1



48 X 48
W9-2(R)

TWO "U" POSTS PER SIGN

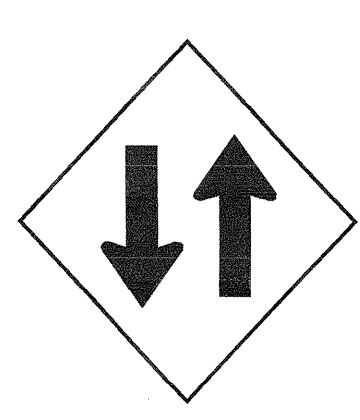
444 QUANTITY REQ'D 3



36 X 36
W1-2R

ONE "U" POST PER SIGN

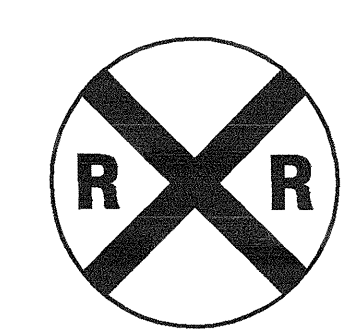
452 QUANTITY REQ'D 1



36 X 36
W6-3

ONE "U" POST PER SIGN

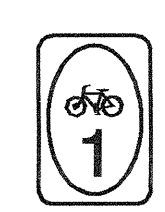
460 QUANTITY REQ'D



36 DIA.
W10-1

YELLOW/GREEN REFLECTIVE SHEETING
ONE "U" POST PER SIGN

465 QUANTITY REQ'D 3



12 X 18
M1-8

ONE "U" POST PER SIGN

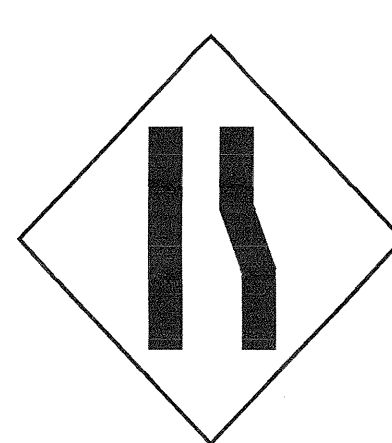
469 QUANTITY REQ'D 2



21 X 15
M6-2

MOUNT BELOW SIGN 468
IN 2 LOCATIONS

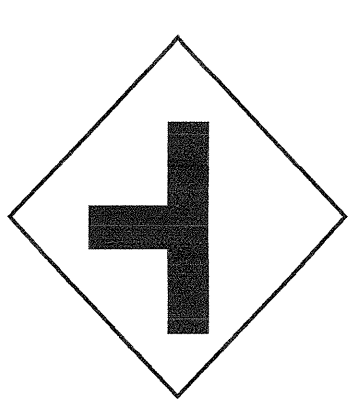
435 QUANTITY REQ'D 1



48 X 48
W19-10(R)

TWO "U" POSTS PER SIGN

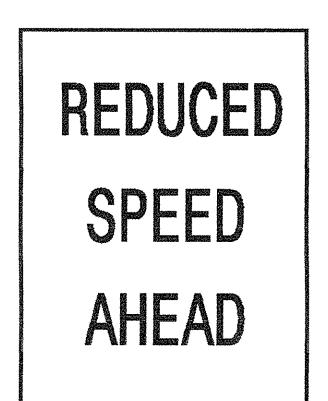
445 QUANTITY REQ'D 2



36 X 36
W2-2

ONE "U" POST PER SIGN

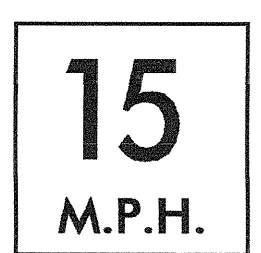
453 QUANTITY REQ'D 1



36 X 48
R2-5a

TWO "U" POSTS PER SIGN

461 QUANTITY REQ'D 3



16 X 16
W13-1

MOUNT BELOW SIGN 462
IN 2 LOCATIONS
MOUNT BELOW SIGN 463
IN 1 LOCATION

NOTE: THIS DRAWING IS DIMENSIONED
IN INCHES UNLESS OTHERWISE
DEPICTED WITHIN THE DRAWING.

Plans prepared by:
KO & ASSOCIATES, P.C.
Consulting Engineers
101 SCHUBERT DR., SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

APPROVED: *[Signature]* DATE: 3/24/08

TYPE "E" SIGNS			
SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH	REVISIONS
DATE:	9-06-05		
SIGNING TECHNICIAN:	B.L.M.		
SIGNING PROJ. DESIGN ENG.:	G.E.P.		
SIGNING PROJECT ENG.:	M.S.A.		

\$FILES \$DATES \$TIMES

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N. C.	R-2320G	SIGN-6	
F. A. PROJECT NO.		NHF-52(10)	

501
504

JCT
BUSINESS
52

1 - 21" X 15"
1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER SIGN

507
546

NORTH
BUSINESS
52

1 - 24" X 12"
1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER SIGN

519

138
←

1 - 24" X 24"
1 - 21" X 15"

ONE "U" POST PER SIGN

530

WEST EAST
24 24
27 27
← →

2 - 24" X 12"
2 - 24" X 24"
2 - 24" X 24"
2 - 21" X 15"

ASSEMBLY 530 MOUNTED BELOW SIGN 304

502

NORTH
BUSINESS
52
→

1 - 24" X 12"
1 - 24" X 12"
1 - 24" X 24"
1 - 21" X 15"

ONE "U" POST PER SIGN

508
510
514
516
525
543

JCT
52

1 - 21" X 15"
1 - 24" X 24"

ONE "U" POST PER SIGN

522

138
→

1 - 24" X 24"
1 - 21" X 15"

ONE "U" POST PER SIGN

531

NORTH
52
↑
WEST EAST
73 73
↑ →

1 - 24" X 12"
1 - 24" X 24"
1 - 21" X 15"
2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER SIGN

503
512
520
528

NORTH
52

1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER SIGN

509
515

SOUTH NORTH
52 52
← →

2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

ASSEMBLY 509 MOUNTED BELOW SIGN 301

524

SOUTH
138

1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER SIGN

532

NORTH WEST
52 73

2 - 24" X 12"
2 - 24" X 24"

TWO "U" POSTS PER SIGN

534

SOUTH TO
52 138
↑ ↑

2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

ASSEMBLY 534 MOUNTED BELOW SIGN 305

505

NORTH
BUSINESS
52
←

1 - 24" X 12"
1 - 24" X 12"
1 - 24" X 24"
1 - 21" X 15"

ONE "U" POST PER SIGN

511
517
526

NORTH SOUTH
52 52
← →

2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

ASSEMBLY 526 MOUNTED BELOW SIGN 303

527

END
138

1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER SIGN

533

JCT
24
27

1 - 21" X 15"
1 - 24" X 24"
1 - 24" X 24"

ONE "U" POST PER SIGN

535

EAST WEST
24 24
27 27
73 27
← →

1 - 24" X 12"
1 - 24" X 24"
1 - 24" X 12"
2 - 24" X 24"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER SIGN

506
513
523
536

SOUTH
52

1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER SIGN

518
521

JCT
138

1 - 21" X 15"
1 - 24" X 24"

ONE "U" POST PER SIGN

529

JCT
24
27
73

1 - 21" X 15"
1 - 24" X 24"
1 - 24" X 24"
1 - 24" X 24"

ONE "U" POST PER SIGN

APPROVED: *[Signature]* DATE: 3/18/08

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
WYMAN I. ALQUODAH
028387

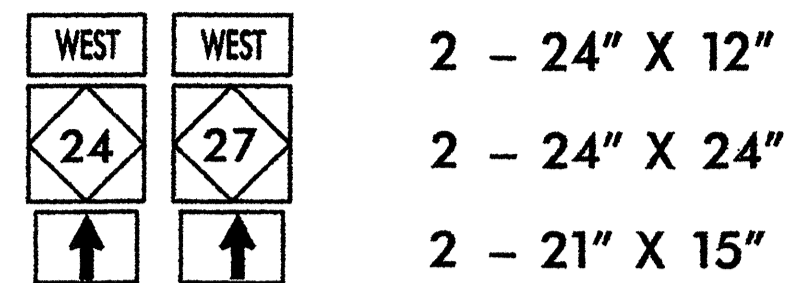
TYPE "F" SIGNS

SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH	REVISIONS
DATE:	9-06-05		
SIGNING TECHNICIAN:	B.L.M.		
SIGNING PROJ. DESIGN ENG.:	G.E.P.		
SIGNING PROJECT ENG.:	M.S.A.		

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101 SCHAUER DR., SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

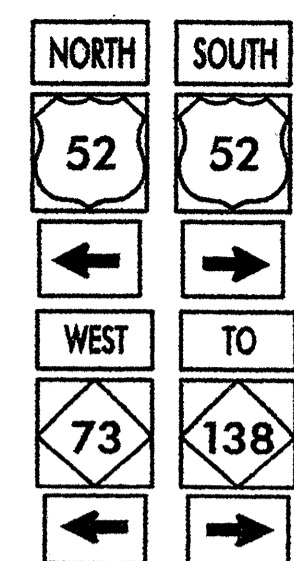
537



2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER SIGN

542



2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"
2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER SIGN

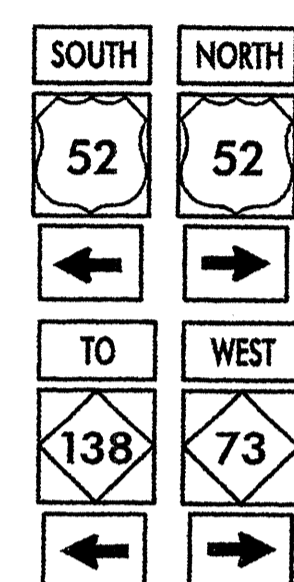
549



1 - 24" X 12"
1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER SIGN

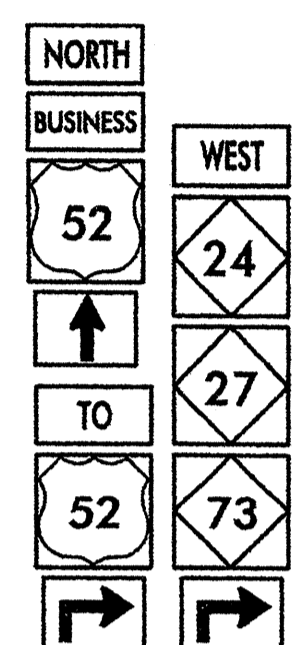
538



2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"
2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER SIGN

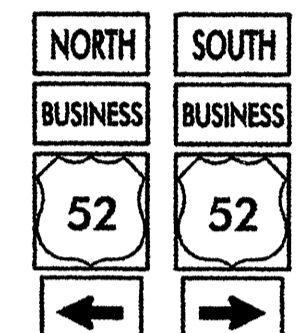
544



1 - 24" X 12"
1 - 24" X 12"
1 - 24" X 12"
1 - 24" X 24"
1 - 24" X 24"
1 - 21" X 15"
1 - 24" X 24"
1 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER SIGN

550



2 - 24" X 12"
2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER SIGN

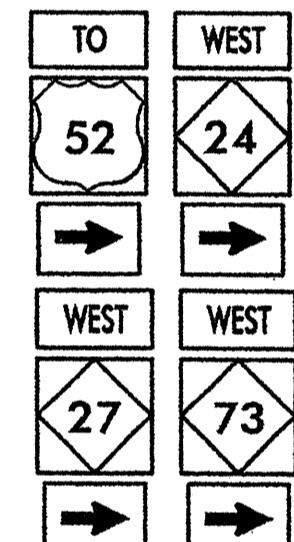
539



1 - 24" X 12"
1 - 24" X 24"
1 - 24" X 24"

ONE "U" POST PER SIGN

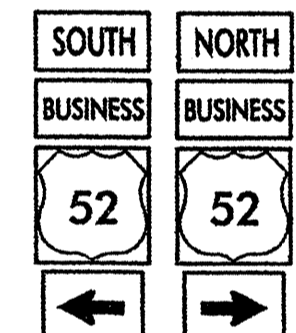
545



2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"
2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER SIGN

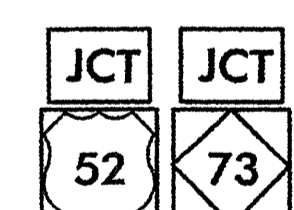
551



2 - 24" X 12"
2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

ASSEMBLY 551 MOUNTED BELOW SIGN 307

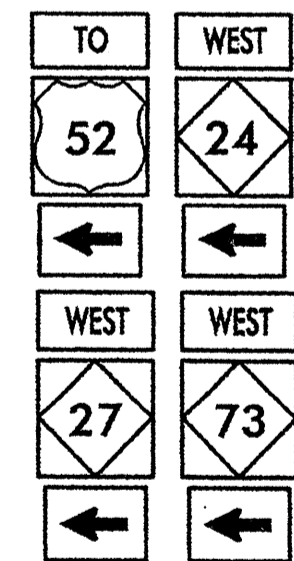
540



2 - 21" X 15"
2 - 24" X 24"

TWO "U" POSTS PER SIGN

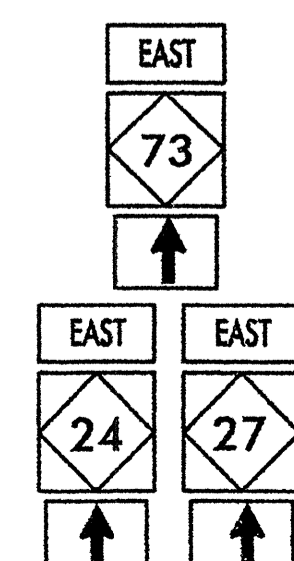
547



2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"
2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

ASSEMBLY 547 MOUNTED BELOW SIGN 306

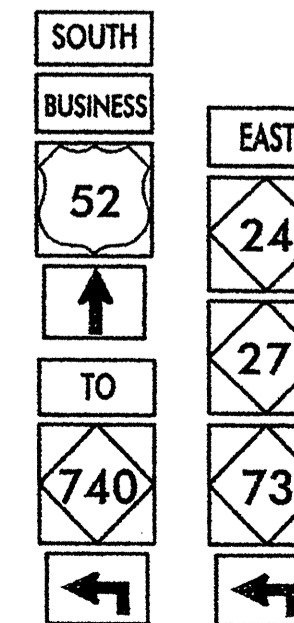
541



1 - 24" X 12"
1 - 24" X 24"
1 - 21" X 15"
2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER SIGN

548

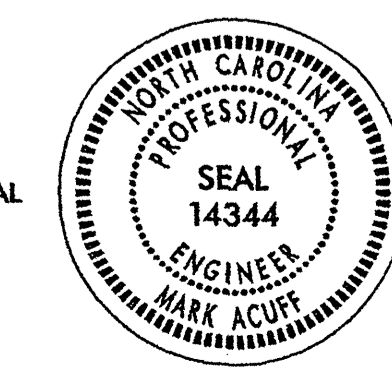


1 - 24" X 12"
1 - 24" X 12"
1 - 24" X 12"
1 - 24" X 24"
1 - 24" X 24"
1 - 21" X 15"
1 - 24" X 24"
1 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER SIGN

Plans prepared by:
KO & ASSOCIATES, P.C.
Consulting Engineers
101 SCHAU DR., SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

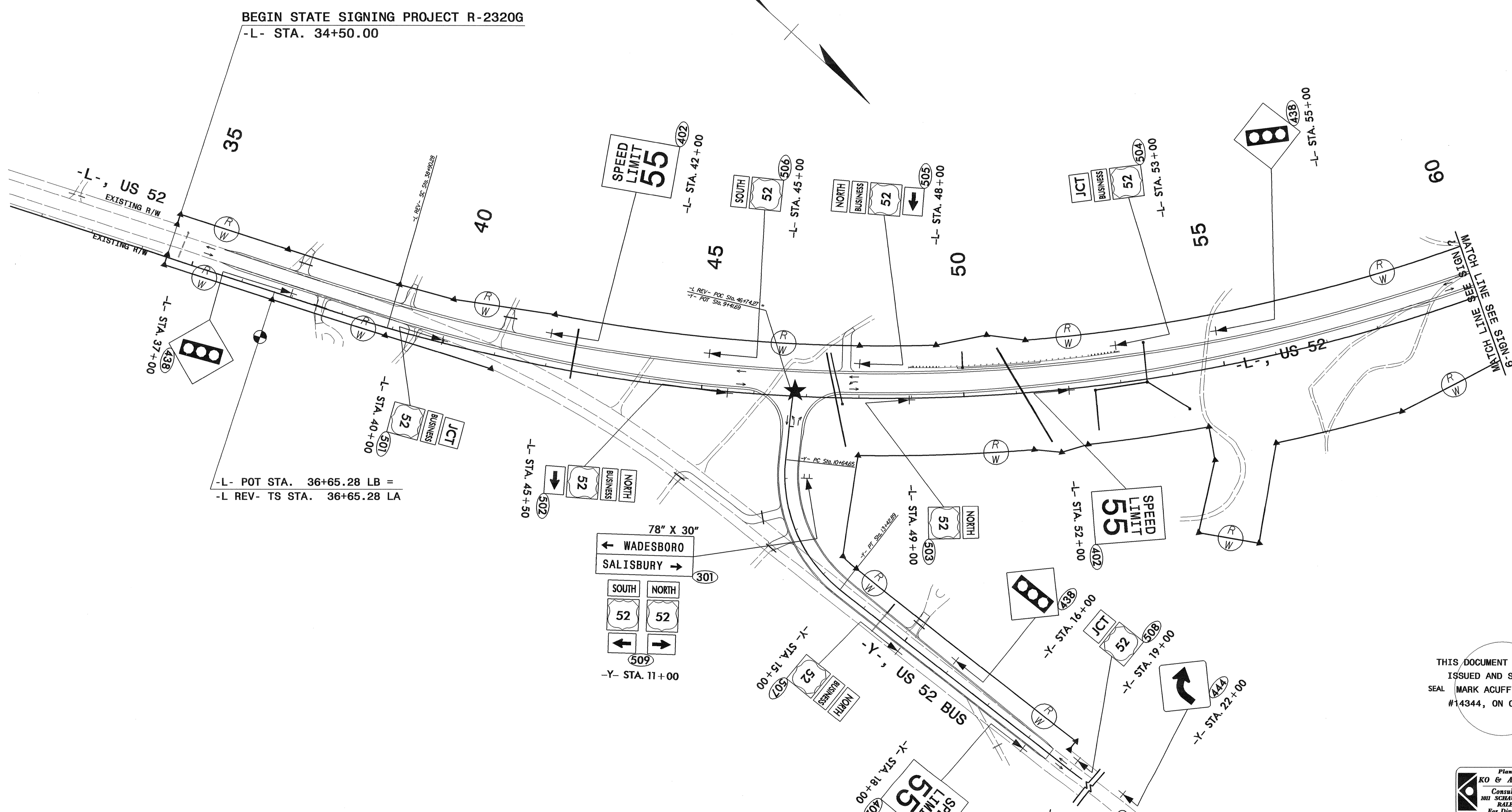
APPROVED: *Mark Acuff* DATE: 09-07-05



TYPE "F" SIGNS

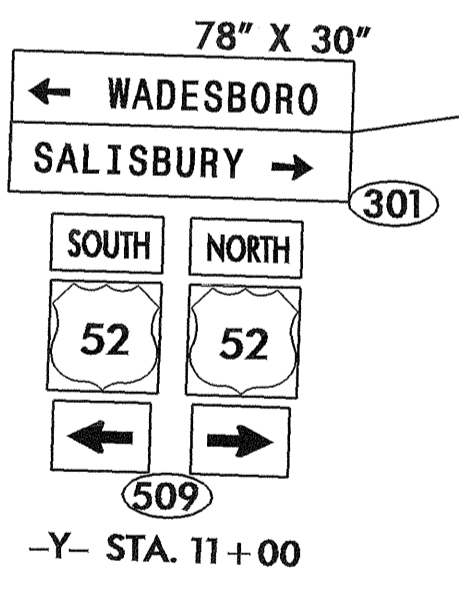
SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH	REVISIONS
DATE:	9-06-05		
SIGNING TECHNICIAN:	B.L.M.		
SIGNING PROJECT DESIGN ENG.:	G.E.P.		
SIGNING PROJECT ENG.:	M.S.A.		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N. C.	R-2320G	SIGN-8	
F. A. PROJECT NO.		NHF-52(10)	



BEGIN STATE SIGNING PROJECT R-2320G
 -L- STA. 34+50.00

-L- POT STA. 36+65.28 LB =
 -L REV- TS STA. 36+65.28 LA



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 RALEIGH, N.C. 27606
 For Division of Highways

APPROVED: *[Signature]* DATE: 3/18/08

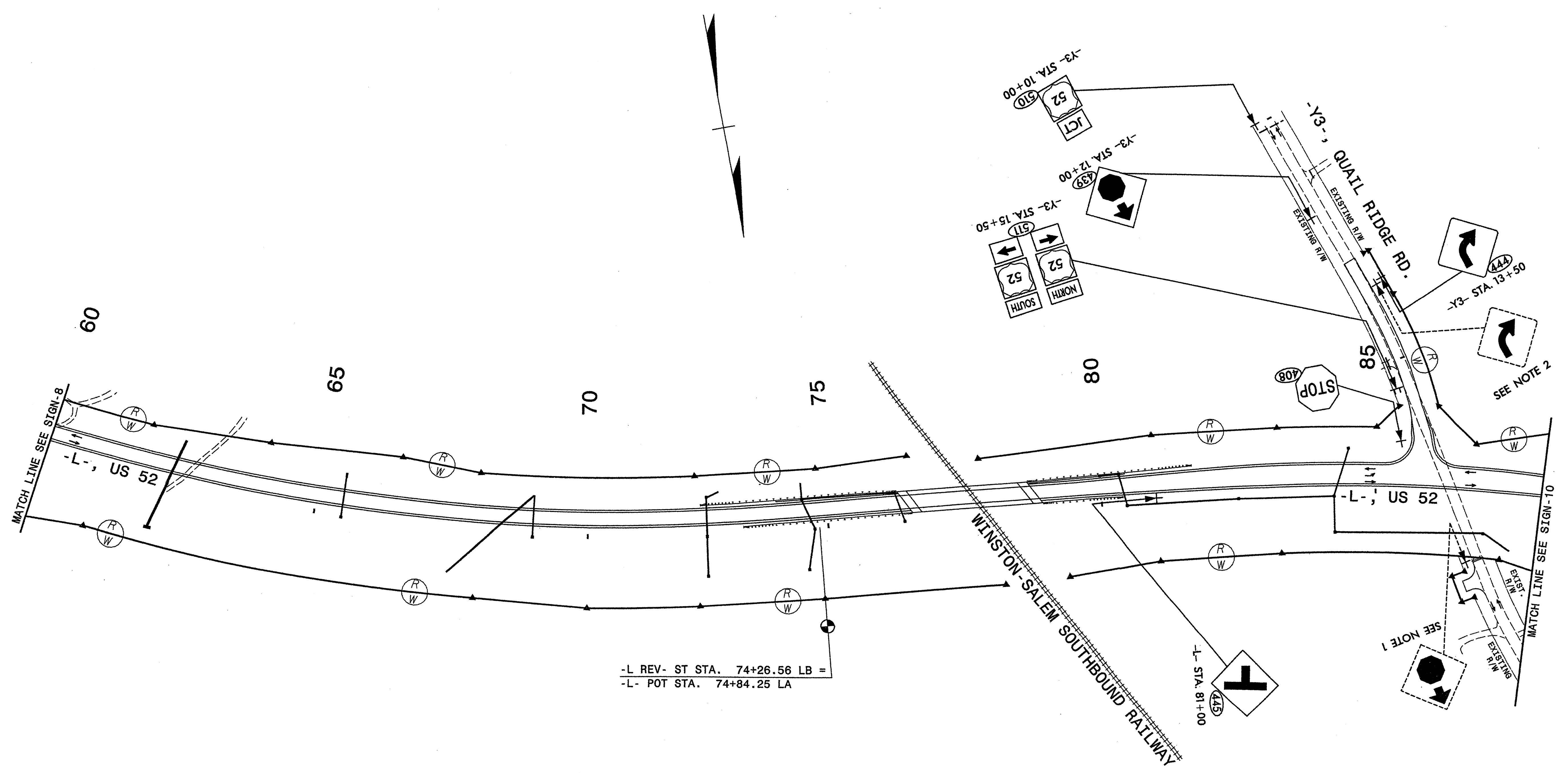


**EXISTING AND PROPOSED SIGNS
 STA. 34+50 TO STA. 60+00
 -L- / -L REV-, US 52**

SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH	REVISIONS
DATE:	9-06-05		
SIGNING TECHNICIAN:	B.L.M.		
SIGNING PROJ. DESIGN ENG.:	G.E.P.		
SIGNING PROJECT ENG.:	M.S.A.		

★ INDICATES SIGNALIZED INTERSECTION

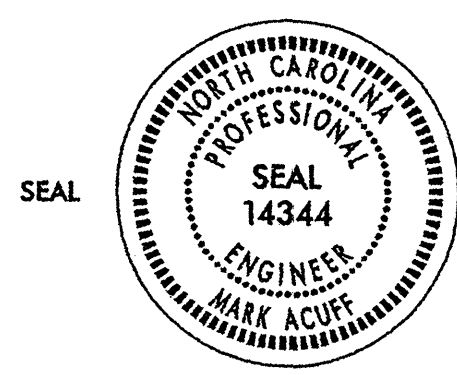
\$FILES \$TIMES \$DATES



-L REV- ST STA. 74+26.56 LB =
 -L- POT STA. 74+84.25 LA

Plans prepared by:
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 Consulting Engineers
 101 SCHUBB DR., SUITE #202
 RALEIGH, N.C. 27605
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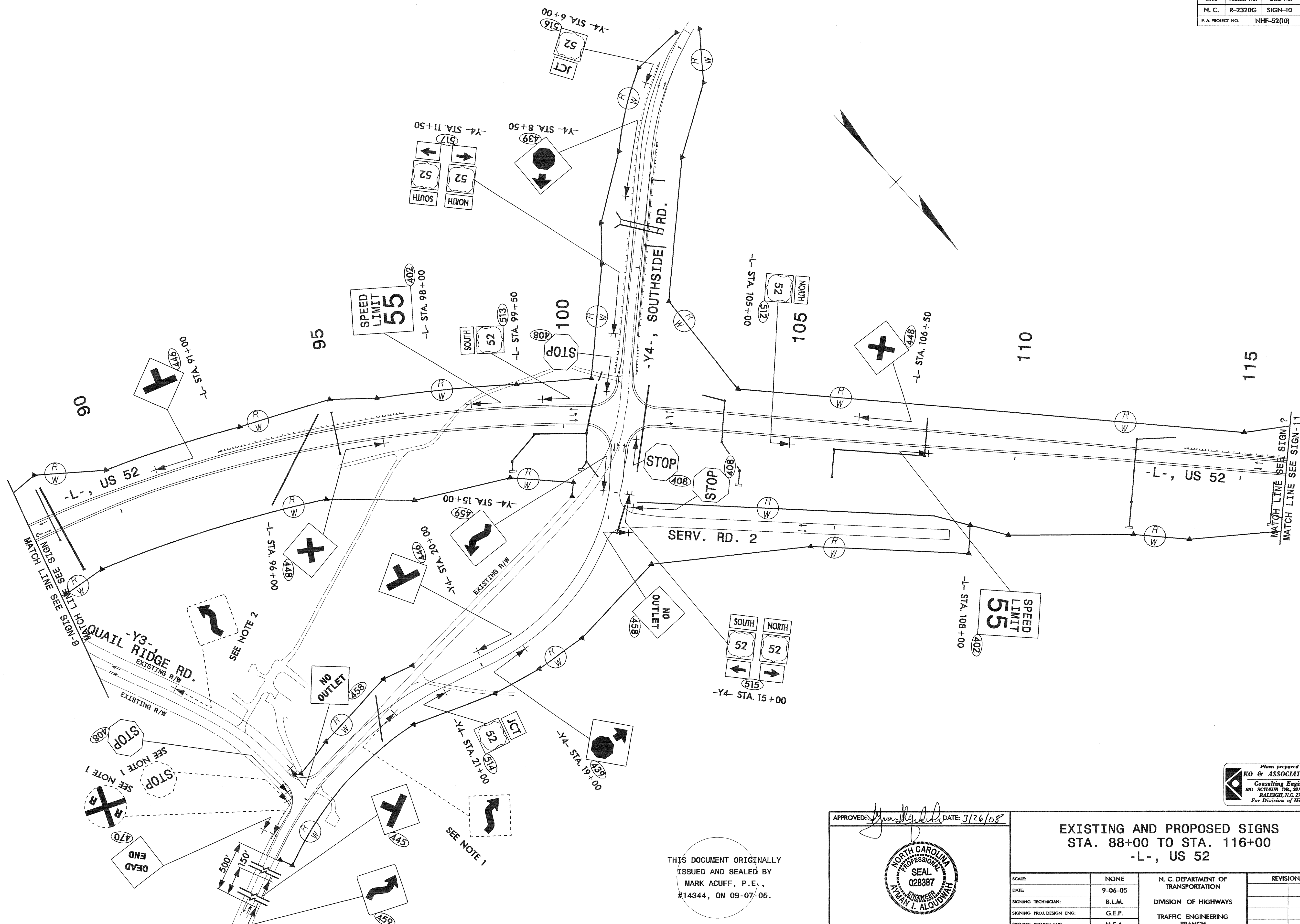
APPROVED: *Mark Acuff* DATE: 09-07-05



EXISTING AND PROPOSED SIGNS
 STA. 60+00 TO STA. 88+00
 -L REV-/-L-, US 52

SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION	REVISIONS
DATE:	9-06-05	DIVISION OF HIGHWAYS	
SIGNING TECHNICIAN:	B.L.M.	TRAFFIC ENGINEERING BRANCH	
SIGNING PROJ. DESIGN ENG:	G.E.P.		
SIGNING PROJECT ENG:	M.S.A.		

P:\Signing\9-23-05\PLANS\9-23-05.dwg
 09/06/2005 02:22:11 PM



APPROVED: *[Signature]* DATE: 3/26/08



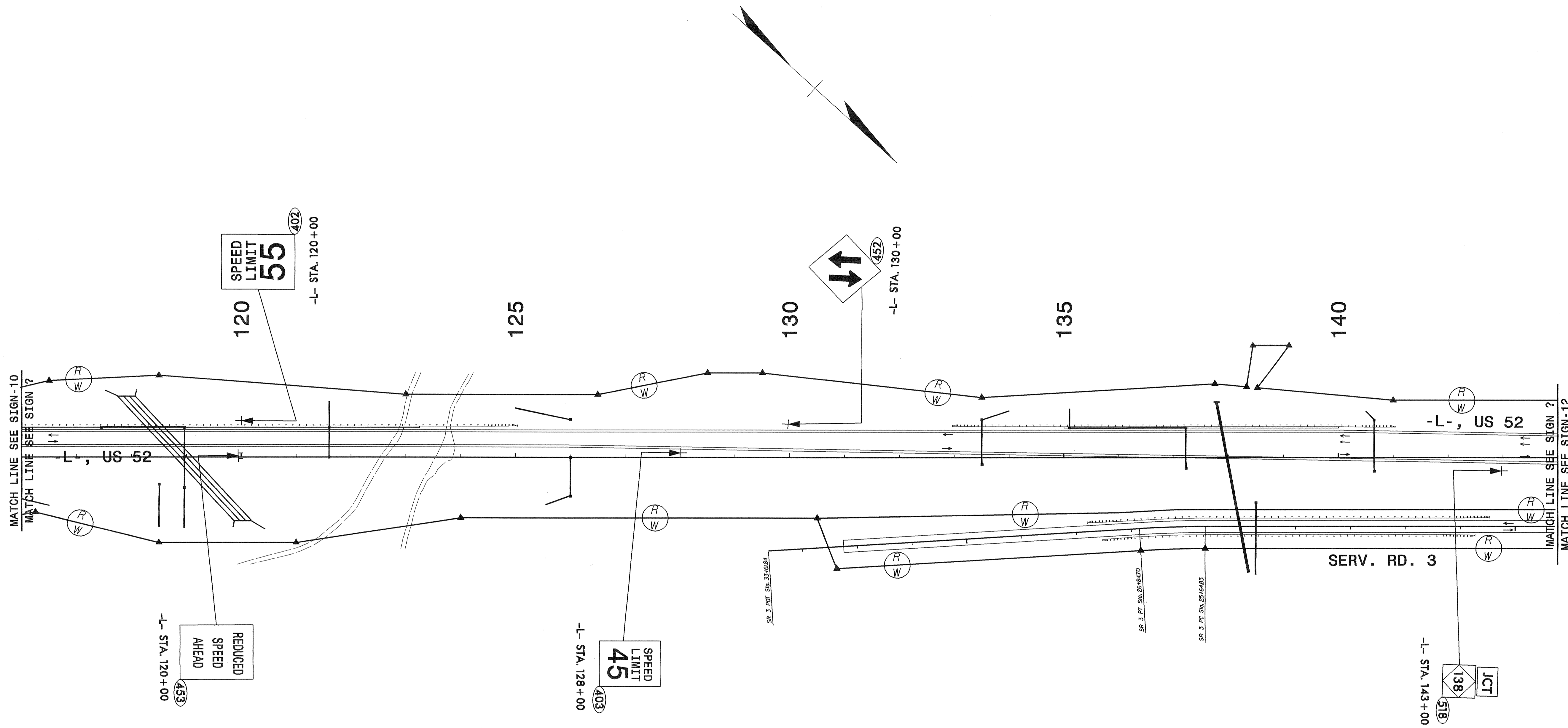
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**EXISTING AND PROPOSED SIGNS
STA. 88+00 TO STA. 116+00
-L-, US 52**

SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH	REVISIONS
DATE:	9-06-05		
SIGNING TECHNICIAN:	B.L.M.		
SIGNING PROJ. DESIGN ENG.:	G.E.P.		
SIGNING PROJECT ENG.:	M.S.A.		

Plans prepared by:
KO & ASSOCIATES, P.C.
Consulting Engineers
101 SCHAU DR, SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

STATE	PROJECT NO.	SHEET NO.	TOTAL SHES.
N. C.	R-2320G	SIGN-11	
F. A. PROJECT NO.		NHF-52(10)	



Plans prepared by:
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 Consulting Engineers
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 RALEIGH, N.C. 27606
 For Division of Highways

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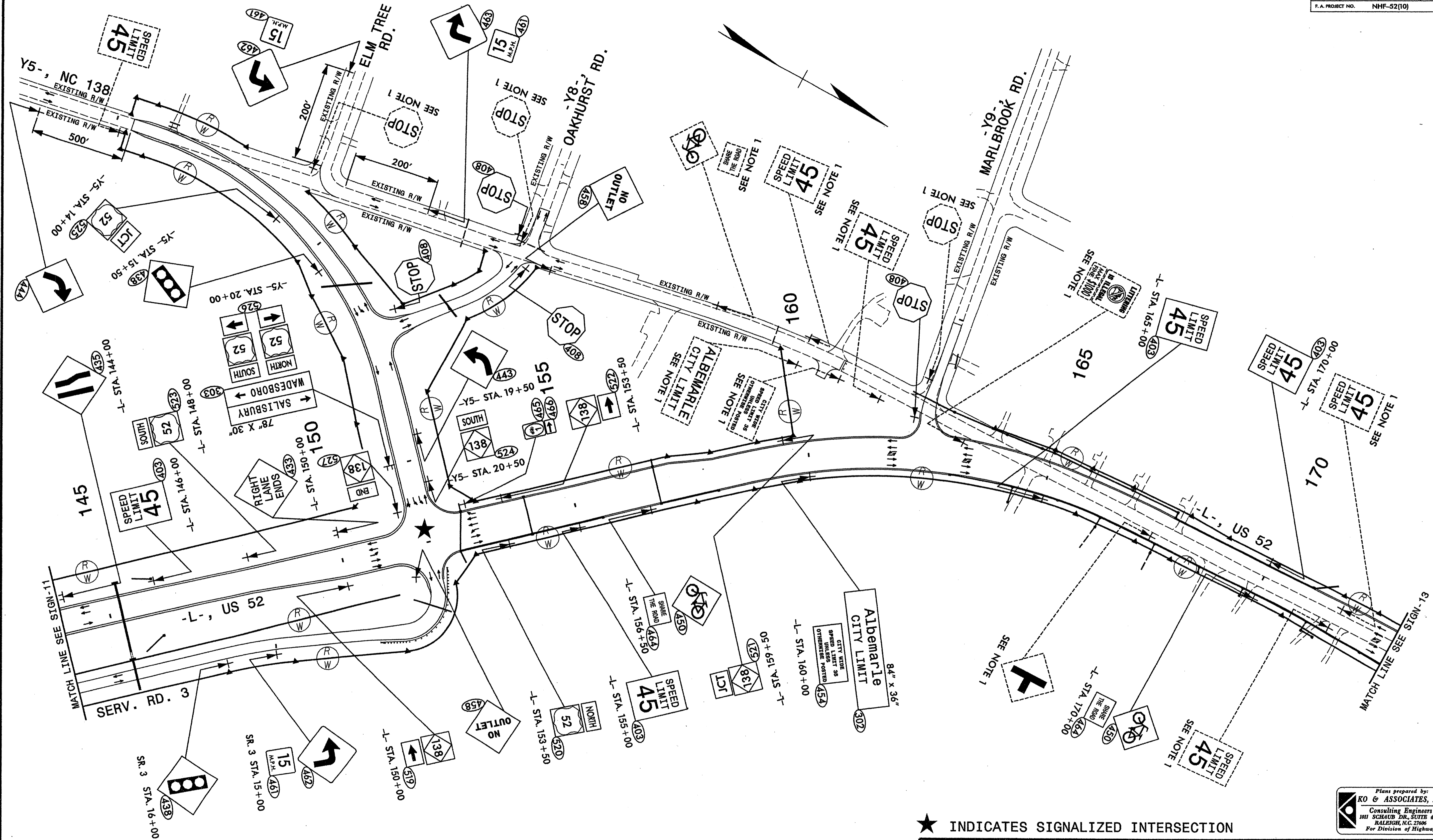
APPROVED: *[Signature]* DATE: 3/18/08



EXISTING AND PROPOSED SIGNS
 STA. 116+00 TO STA. 144+00
 -L-, US 52

SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION	REVISIONS
DATE:	9-06-05		
SIGNING TECHNICIAN:	B.L.M.		
SIGNING PROJ. DESIGN ENG.:	G.E.P.		
SIGNING PROJECT ENG.:	M.S.A.		
		DIVISION OF HIGHWAYS	
		TRAFFIC ENGINEERING BRANCH	

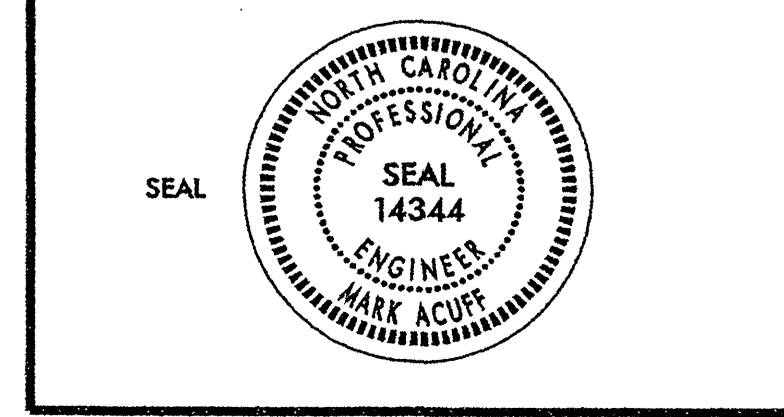
8 FILES &
 82 PAGES



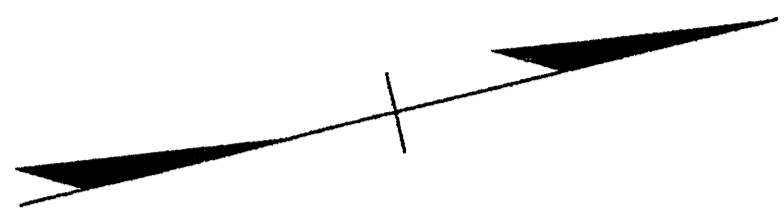
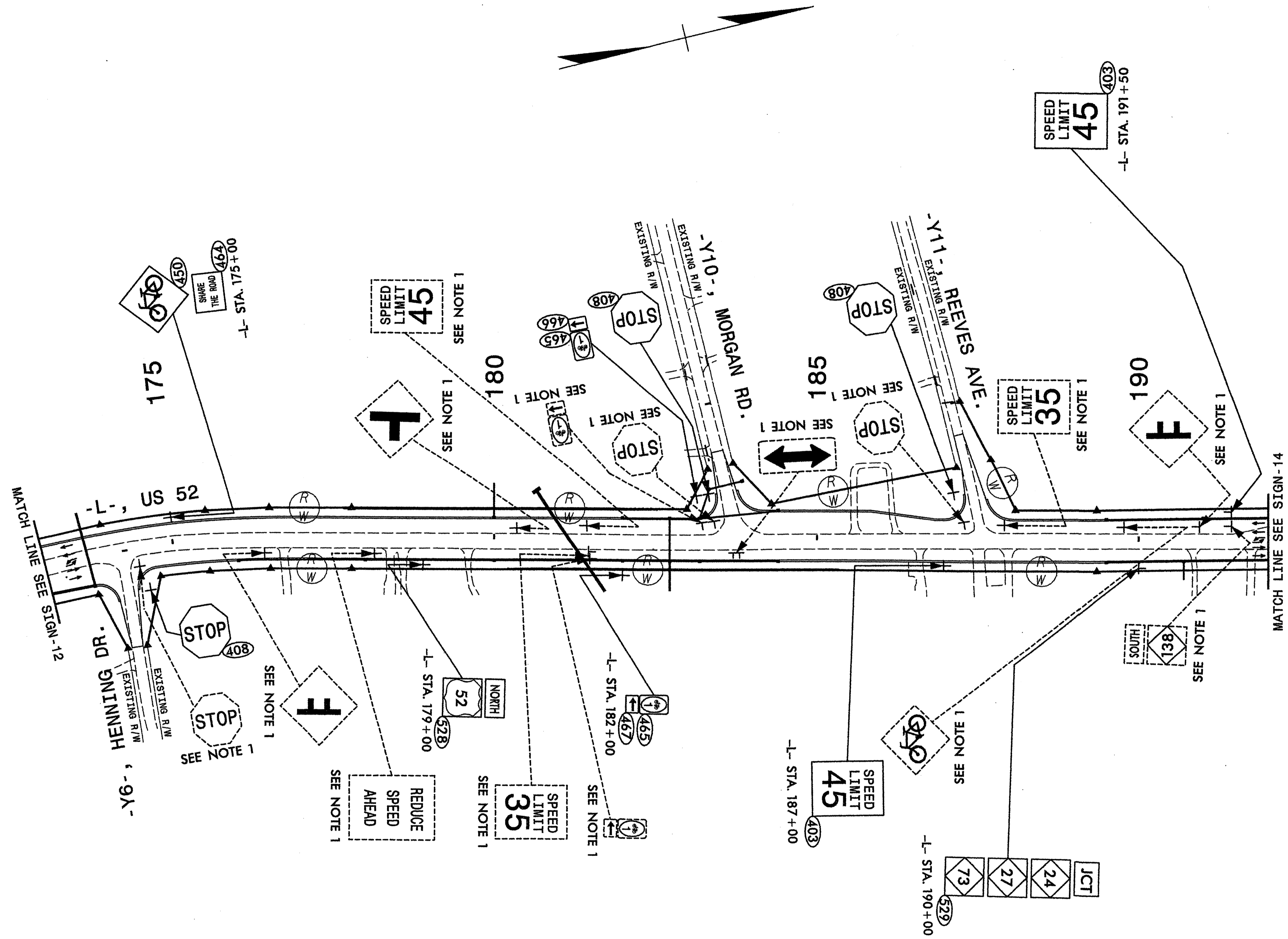
★ INDICATES SIGNALIZED INTERSECTION

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 1011 SCHAUB DR., SUITE #202
 RALEIGH, N.C. 27606
 For Division of Highways

APPROVED: *Mark Cuff* DATE: 09-07-05

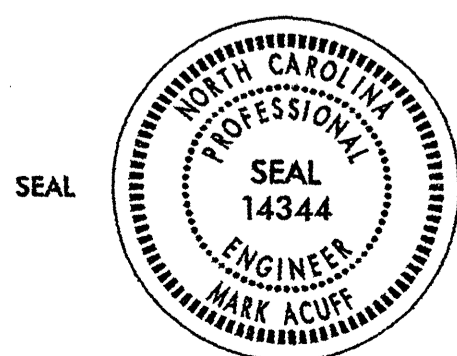


EXISTING AND PROPOSED SIGNS STA. 144+00 TO STA. 173+00 -L-, US 52		REVISIONS	
SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH	
DATE:	9-06-05		
SIGNING TECHNICIAN:	B.L.M.		
SIGNING PROJ. DESIGN ENG.:	G.E.P.		
SIGNING PROJECT ENG.:	M.S.A.		



Plans prepared by:
KO & ASSOCIATES, P.C.
 Consulting Engineers
 1011 SCHAUB DR., SUITE #202
 RALEIGH, N.C. 27606
 For Division of Highways

APPROVED: *Mark Acuff* DATE: 09-07-05



EXISTING AND PROPOSED SIGNS
 STA. 173+00 TO STA. 192+00
 -L-, US 52

SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH	REVISIONS
DATE:	9-06-05		
SIGNING TECHNICIAN:	B.L.M.		
SIGNING PROJ. DESIGN ENG.:	G.E.P.		
SIGNING PROJECT ENG.:	M.S.A.		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHTS.
N. C.	R-2320G	SIGN-14	
F. A. PROJECT NO.	NHF-52(10)		

THIS DOCUMENT ORIGINALLY
ISSUED AND SEALED BY
SEAL MARK ACUFF, P.E.,
#14344, ON 09-07-05.

END TIP STATE PROJECT R-2320G
-L- STA. 192+74.00

ERECT SIGN 541
200'± FROM SIGN 101

END STATE SIGNING PROJECT R-2320G
900' PAST NC 24 & 27 INTERSECTION

US 52 & NC 73

★ INDICATES SIGNALIZED INTERSECTION

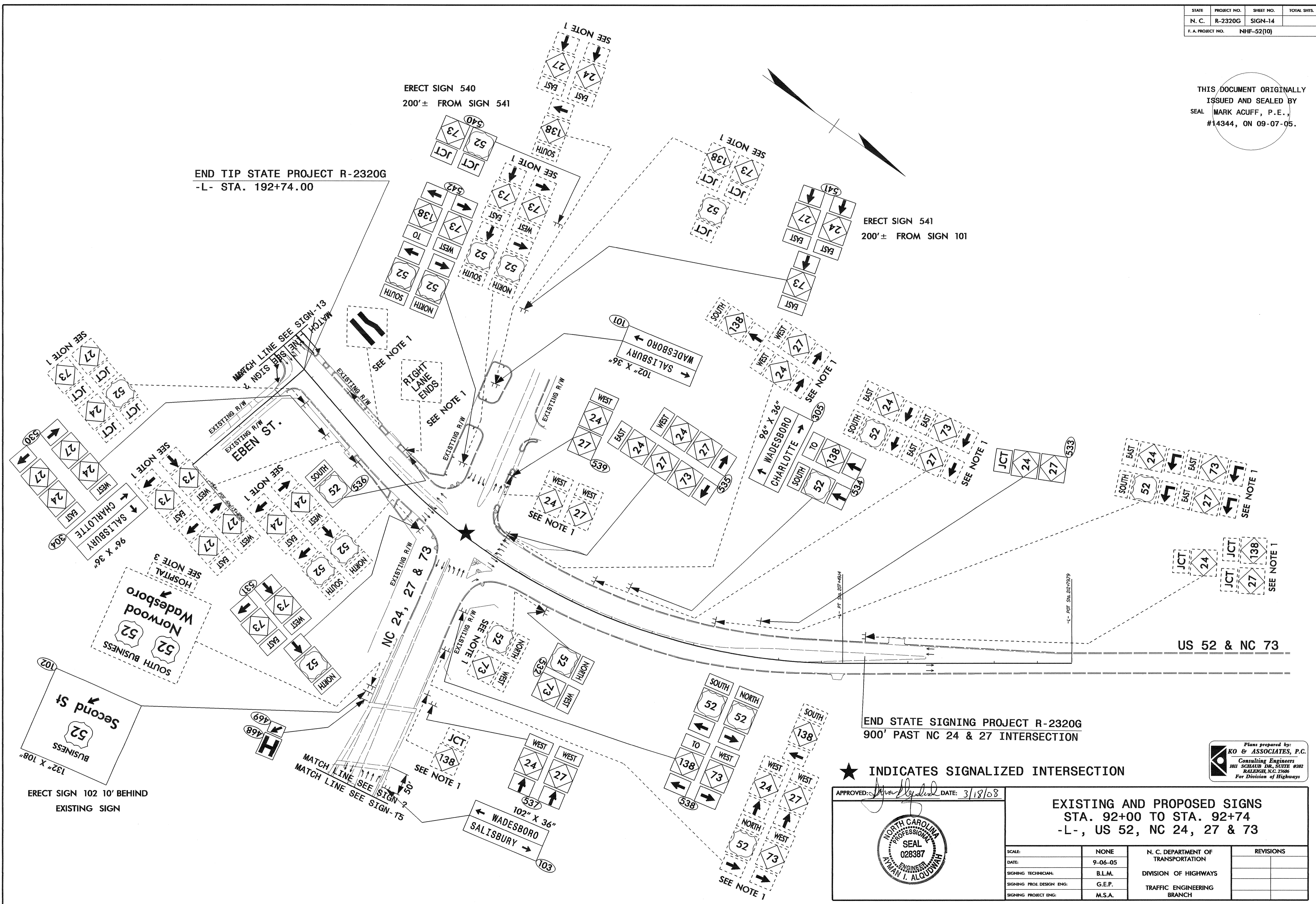
Plans prepared by:
KO & ASSOCIATES, P.C.
Consulting Engineers
1011 SCHAUB DR., SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

APPROVED: *[Signature]* DATE: 3/18/08

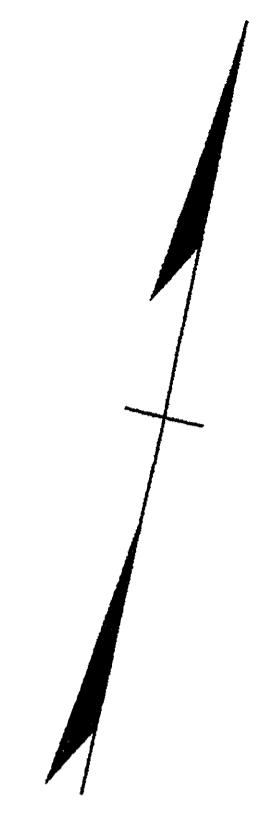
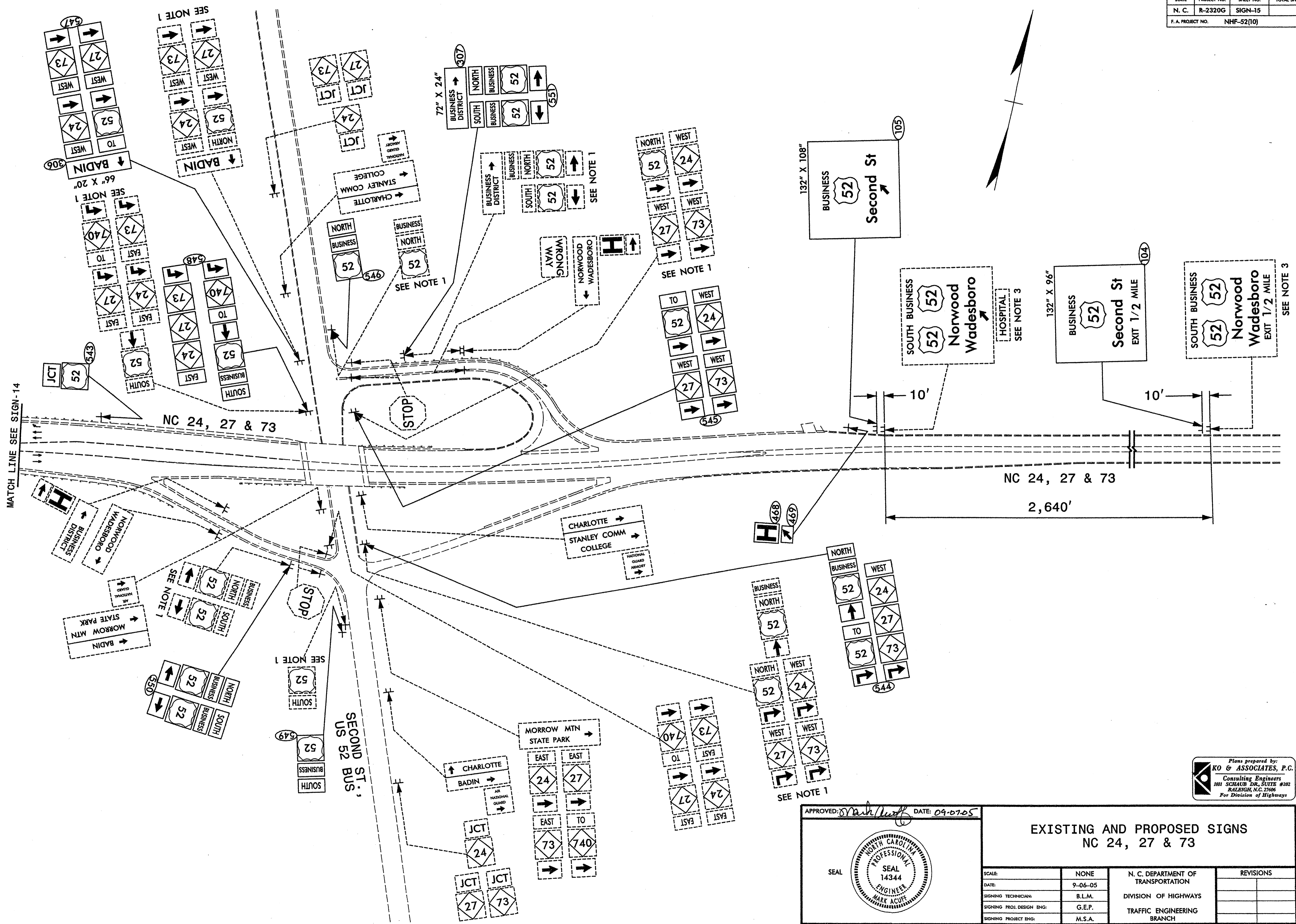


EXISTING AND PROPOSED SIGNS
STA. 92+00 TO STA. 92+74
-L-, US 52, NC 24, 27 & 73

SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH	REVISIONS
DATE:	9-06-05		
SIGNING TECHNICIAN:	B.L.M.		
SIGNING PROJ. DESIGN ENG.:	G.E.P.		
SIGNING PROJECT ENG.:	M.S.A.		



87 FILES & 8 DATES

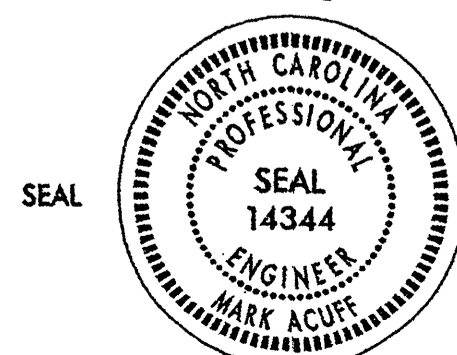


MATCH LINE SEE SIGN-14

SEE NOTE 3

Plans prepared by:
KO & ASSOCIATES, P.C.
 Consulting Engineers
 101 SCHAUB DR., SUITE #202
 RALEIGH, N.C. 27605
 For Division of Highways

APPROVED: *Mark Acuff* DATE: 09-07-05



EXISTING AND PROPOSED SIGNS
 NC 24, 27 & 73

SCALE:	NONE	N. C. DEPARTMENT OF TRANSPORTATION	REVISIONS
DATE:	9-06-05		
SIGNING TECHNICIAN:	B.L.M.	DIVISION OF HIGHWAYS	
SIGNING PROJ. DESIGN ENG.:	G.E.P.	TRAFFIC ENGINEERING BRANCH	
SIGNING PROJECT ENG.:	M.S.A.		

P:\signing\N-2320G\PLANS\6684.dgn
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