




TIP NO. R-2206BA & CA	SHEET NO. SIGN-3
APPROVED: <i>[Signature]</i>	
DATE: 5/13/08	
SEAL	
	

Pay Item Notes:	
1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2	RELOCATE SIGN, TYPE E
3	DISPOSAL OF SIGN, A OR B (GROUND MOUNTED)
4	DISPOSAL OF SIGN, D, E OR F

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:

NOTES

*****SYTIME*****
*****PLANNING*****
*****DESIGN*****
*****CONSTRUCTION*****
*****OPERATION*****



TIP NO. R-2206BA & CA	SHEET NO. SIGN-4
APPROVED: <i>[Signature]</i>	
DATE: 5/13/08	
SEAL	

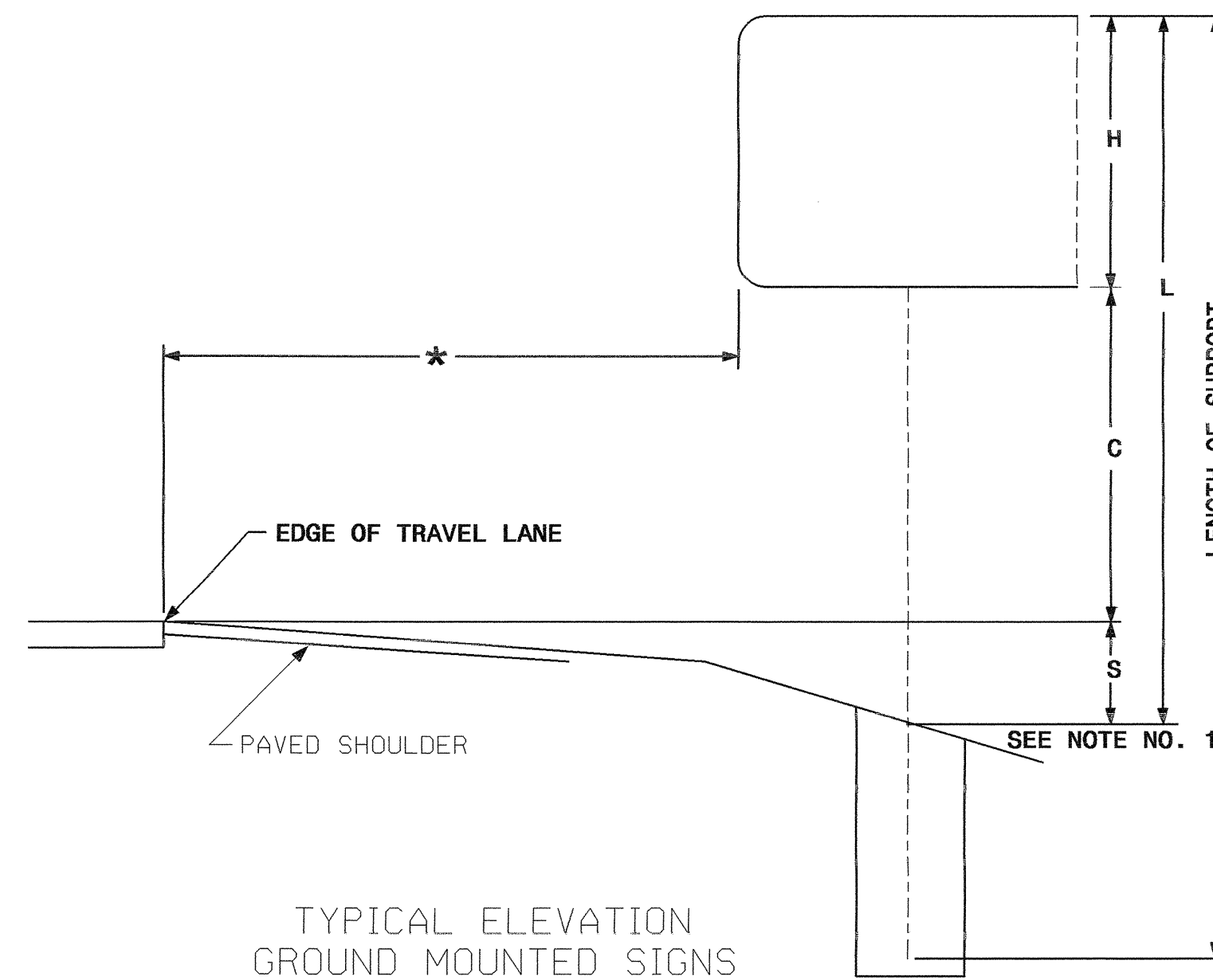
TYPE "A" AND TYPE "B" GROUND MOUNTED SIGNS

SIGN NO.	SIGN TYPE	SIGN SIZE (mm)			ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR. * (m)	LENGTH (m)				LEFT SUPPORT (m)			CENTER SUPPORT (m)			RIGHT SUPPORT (m)			FOOTING DIAMETER (m)	FOOTING DEPTH (m)	B/A SUPPORT WEIGHTS (kg)	SIMPLE SUPPORT WEIGHTS (kg)	REINF. FTGS. (c.m.)
		w	x	h								SNS HT	MTG HT	EMBED- MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH						
101	A	5800	X	2800	100+60	3	W6x16	BA	N/A	N/A	9.14	2.80	2.13	1.68	1.20	6.13	7.81	1.71	6.64	8.32	2.14	7.08	8.75	0.6096	1.8288	682.39	0.00	1.60	
102	A	4700	X	3400	112+65	2	W10x22	S	N/A	N/A	4.62	3.40	2.13	1.98	2.97	8.50	10.49	0.00	0.00	0.00	4.35	9.88	11.87	0.762	2.1336	0.00	731.78	1.95	
103	A	4700	X	3400	122+20	2	W10x22	S	N/A	N/A	4.62	3.40	2.13	1.98	2.91	8.44	10.42	0.00	0.00	0.00	4.26	9.79	11.77	0.762	2.1336	0.00	726.63	1.95	
104	A	4300	X	3400	198+80	2	W8x18	S	N/A	N/A	4.62	3.40	2.13	1.83	1.05	6.59	8.42	0.00	0.00	0.00	1.82	7.35	9.18	0.6096	1.9812	0.00	471.35	1.16	
105	A	4300	X	3400	215+91	2	W6x16	BA	N/A	N/A	9.14	3.40	2.13	1.83	0.35	5.88	7.71	0.00	0.00	0.00	0.77	6.30	8.13	0.4572	1.9812	437.22	0.00	0.65	
106	A	5400	X	2800	232+00	2	W6x16	BA	N/A	N/A	9.14	2.80	3.31	1.98	0.22	6.34	8.32	0.00	0.00	0.00	-1.18	4.93	6.91	0.4572	2.1336	422.79	0.00	0.70	
107	A	5400	X	2800	244+00	2	W8x18	S	N/A	N/A	4.62	2.80	2.13	1.98	1.90	6.83	8.81	0.00	0.00	0.00	3.48	8.41	10.39	0.6096	2.1336	0.00	514.37	1.25	
108	A	4300	X	3400	252+00	2	W6x16	BA	N/A	N/A	9.14	3.40	2.92	1.83	-0.52	5.80	7.63	0.00	0.00	0.00	-0.78	5.53	7.36	0.4572	1.9812	417.00	0.00	0.65	
109	A	4300	X	3400	263+00	2	W8x18	BA	N/A	N/A	4.62	3.40	2.13	1.83	1.13	6.66	8.49	0.00	0.00	0.00	2.39	7.92	9.75	0.6096	1.9812	562.04	0.00	1.16	
110	A	3000	X	500	237+10	2	S3x5.7	BA	N/A	N/A	9.14	0.50	2.13	0.91	2.50	5.13	6.05	0.00	0.00	0.00	2.54	5.17	6.09	0.3048	1.0668	119.06	0.00	0.16	
111	A	2800	X	500	236+90	2	S4x7.7	BA	N/A	N/A	9.14	0.50	2.13	1.07	3.13	5.77	6.83	0.00	0.00	0.00	3.57	6.20	7.27	0.3048	1.2192	180.03	0.00	0.18	
201	A	1500	X	1500	97+30 +/-	2	S3x5.7	BA	N/A	N/A	△	1.50	2.13	0.91	0.39	4.02	4.94	0.00	0.00	0.00	0.53	4.17	5.08	0.3048	1.0668	101.10	0.00	0.16	
202	A	1500	X	1500	234+15 +/-	2	S3x5.7	BA	N/A	N/A	△	1.50	2.13	0.91	0.34	3.97	4.89	0.00	0.00	0.00	0.41	4.04	4.96	0.3048	1.0668	99.63	0.00	0.16	
203	A	1500	X	1500	242+20 +/-	2	S3x5.7	BA	N/A	N/A	△	1.50	3.12	1.07	-0.91	3.71	4.77	0.00	0.00	0.00	-0.98	3.63	4.70	0.3048	1.2192	96.48	0.00	0.18	
																								3117.74	2444.13	11.88			
																								3118	2445	12			

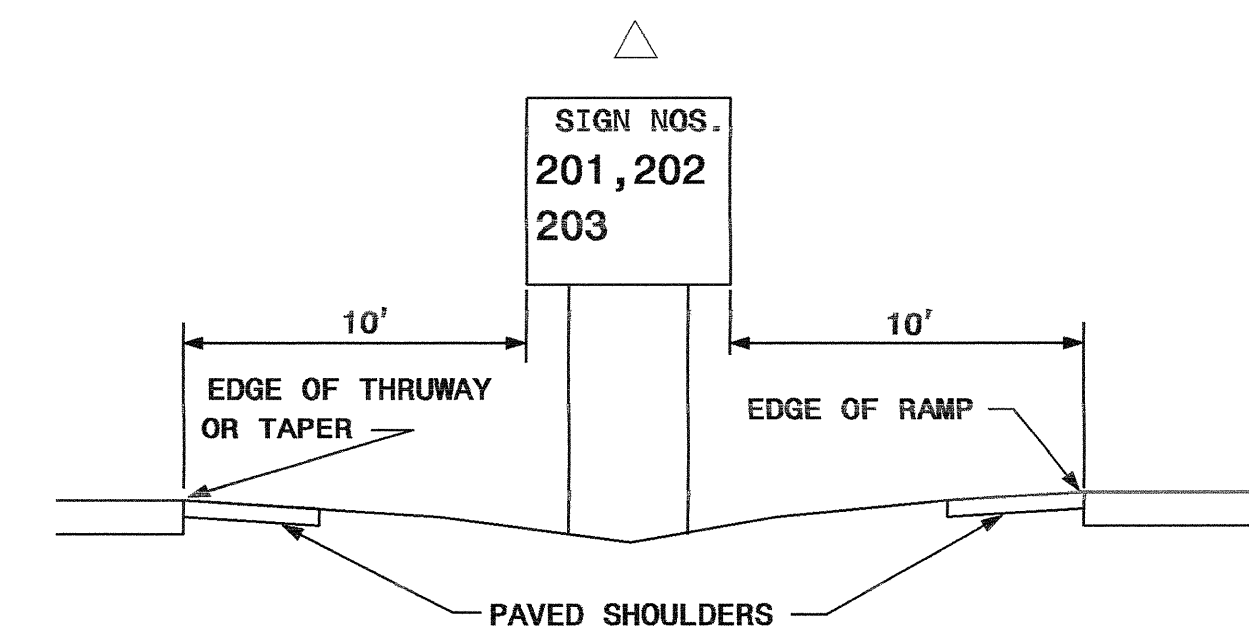
USE:

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
- PLAN LOCATIONS 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.



TYPICAL ELEVATION
GROUND MOUNTED SIGNS



SUPPORTS



TIP NO.	SHEET NO.
R-2206BA & CA	SIGN-R
APPROVED: <i>[Signature]</i>	
DATE: 5/13/08	
SEAL	

NOTES:

1. DESIGN CONFORMS WITH THE SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS - A.A.S.H.T.O.
2. USE MATERIALS, FABRICATE AND ERECT SIGNS AND SUPPORTS THAT CONFORM TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
3. USE HIGH STRENGTH BOLTS, NUTS AND WASHERS THAT CONFORM TO A.S.T.M. A-325 AND THAT ARE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-153.
4. USE BACKING PLATES, SLIP BASE PLATES, FRICTION PLATES, AND HINGE PLATES THAT CONFORM TO A.S.T.M. A-36 AND THAT ARE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-123 PRIOR TO GALVANIZING, GRIND SMOOTH ANY METAL PROJECTION BEYOND THE PLATE FACE. KEEPER PLATES SHALL BE MANUFACTURED FROM 28 GAUGE SHEET STEEL THAT CONFORMS TO A.S.T.M. A-36 AND IS GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-123
5. ASSEMBLE HINGE CONNECTIONS IN THE SHOP. SHOP TIGHTEN BOLTS BY USE OF EITHER A CALIBRATED POWER WRENCH OR A MANUAL TORQUE WRENCH. TIGHTEN EACH HINGE CONNECTION BOLT TO 1/3 PAST SNUG.
6. BASE PLATES DETAILS ARE FOR INSTALLATIONS ON THE RIGHT SHOULDER AND IN GORE AREAS.
7. ASSEMBLE UPPER SUPPORT TO STUB AS SHOWN IN DETAIL. SLIP BASE PLATES SHALL BE FILLET WELDED ONTO POSTS ALL AROUND THE STRUCTURAL SHAPE. ASSEMBLE IN EITHER SHOP OR FIELD. 28 GAUGE KEEPER PLATE IS PLACED BETWEEN SLIP BASE PLATES TO PREVENT BOLT SLIPPING. TIGHTEN BOLTS TO THE FOLLOWING PRESCRIBED TORQUE:

BOLT DIAMETER	TORQUE (N-M)
13	39
16	62
19	73
25	83

COMPLETELY ASSEMBLE B/A POSTS PRIOR TO ERECTION. B/A POST TO BE SET IN ONE PIECE. AFTER SUPPORT HAS BEEN ERECTED AND THE CONCRETE FOOTINGS HAS CURED AT LEAST 48 HRS., CLEAN CONCRETE FROM BASE CONNECTION BOLTS THEN LOOSEN AND RETIGHTEN EACH BOLT IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. DO NOT OVERTIGHTEN. BURR ALL BOLT THREADS OF BASE CONNECTIONS TO PREVENT LOOSENING.

8. USE REINFORCED FOOTINGS WITH DIMENSIONS AS SHOWN IN PLANS. WHERE SOLID ROCK IS ENCOUNTERED, THE ENGINEER DIRECTS WHETHER TO PLACE THE FOOTING AT THE PRESCRIBED DEPTH OR EXTEND IT AT LEAST HALF A METER INTO THE ROCK. RECONSTRUCT ALL FOOTINGS OF CLASS A CONCRETE.
9. FORM TOP 152mm OF FOOTINGS. ENGINEER APPROVES THE METHOD USED.
10. THE FINAL FLAT TURN OF SPIRAL OR HOOPS NO. 3 OR LARGER PLACED 76mm FROM TOP AND BOTTOM OF FOOTING MAY BE WELDED TO VERTICAL REINFORCING BARS. NO OTHER WELDING WILL BE PERMITTED.
11. ELIMINATE HINGE CONNECTION FOR ALL SINGLE SUPPORT SIGNS.
12. DETAIL IS FOR ONE DIRECTION BREAKAWAY. WHEN PLANS REQUIRE A TWO DIRECTION BREAKAWAY, TWO FRICTION PLATES SHALL BE USED IN LIEU OF ONE FRICTION PLATE AND ONE HINGE PLATE.
13. SHAPE THE TOPS OF THE FOOTINGS TO CONFORM WITH FINISHED GROUND ELEVATIONS SUCH THAT WATER WILL NOT COLLECT AGAINST THE SUPPORTS.
14. IF THE GROUNDWATER IS ENCOUNTERED AT AN DEPTH SHALLOWER THAN 2 METERS, THE SIGN FOUNDATION MUST BE REDESIGNED BASED UPON THE ACTUAL FIELD CONDITIONS. THE FOUNDATION DESIGN DOES NOT APPLY TO VERY SOFT OR LOOSE SOIL, MUCK, WEATHERED ROCK, OR HARD ROCK.

Note:
This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.

GROUND MOUNTED SIGN SUPPORTS



TIP NO. R-2206BA & CA SHEET NO. SIGN-11

APPROVED: *[Signature]*

DATE: 5/13/08

SEAL

SIGN NUMBER: 101 TYPE: A BACKG COLOR: Green COPY COLOR: White

DESIGN BY: W. Johnson CHECKED BY: J. Martinez J. Martinez DATE: Apr 10, 2008

PROJECT ID: R-2206BA & CA DIV: 12

QUANTITY: 1

SYMBOL	X	Y	WID	HT
NC242	1900	1600	900	900
ARMED	4712	500	571	900

SIGN WIDTH: 5800mm HEIGHT: 2800mm TOTAL AREA: 16.2 Sq.m

BORDER TYPE: FLUSH RECESS: 0mm WIDTH: 76mm RADII: 305mm

NO. Z BARS: 3 LENGTH: 5596.8 MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

L	i	n	c	o	l	i	n	t	o	n	Series/Size	
678	1062	1302	1690	2042	2438	2678	3062	3362	3758		EM 2000	
											3344	
H	u	n	t	e	r	s	v	i	l	l	e	Series/Size
388	848	1272	1656	1956	2344	2596	2940	3364	3604	3844	4048	EM 2000
												3924

FILENAME: R-2206BA_Sgn_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 103 TYPE: A BACKG COLOR: Green COPY COLOR: White

DESIGN BY: W. Johnson CHECKED BY: J. Martinez DATE: May 13, 2008

PROJECT ID: R-2206BA & CA DIV: 12

QUANTITY: 1

SYMBOL	X	Y	WID	HT
NC242	1900	2216	900	900

SIGN WIDTH: 4700mm HEIGHT: 3400mm TOTAL AREA: 16.0 Sq.m

BORDER TYPE: FLUSH RECESS: 0mm WIDTH: 76mm RADII: 305mm

NO. Z BARS: 3 LENGTH: 4496.8 MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

L	i	n	c	o	l	i	n	t	o	n	Series/Size	
678	1062	1302	1690	2042	2438	2678	3062	3362	3758		EM 2000	
											3344	
H	u	n	t	e	r	s	v	i	l	l	e	Series/Size
388	848	1272	1656	1956	2344	2596	2940	3364	3604	3844	4048	EM 2000
												3924
E	X	I	T	1	1	2	M	I	L	E	S	Series/Size
635	858	1125	1213	1775	2075	3000	3300	3410	3640	3862		E 2000
												3429

FILENAME: R-2206BA_Sgn_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 102 TYPE: A BACKG COLOR: Green COPY COLOR: White

DESIGN BY: W. Johnson CHECKED BY: J. Martinez DATE: May 13, 2008

PROJECT ID: R-2206BA & CA DIV: 12

QUANTITY: 1

SYMBOL	X	Y	WID	HT
NC242	1900	2200	900	900

SIGN WIDTH: 4700mm HEIGHT: 3400mm TOTAL AREA: 16.0 Sq.m

BORDER TYPE: FLUSH RECESS: 0mm WIDTH: 76mm RADII: 305mm

NO. Z BARS: 3 LENGTH: 4496.8 MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

L	i	n	c	o	l	i	n	t	o	n	Series/Size	
678	1062	1302	1690	2042	2438	2678	3062	3362	3758		EM 2000	
											3344	
H	u	n	t	e	r	s	v	i	l	l	e	Series/Size
388	848	1272	1656	1956	2344	2596	2940	3364	3604	3844	4048	EM 2000
												3924
E	X	I	T	3	4	M	I	L	E	S	Series/Size	
867	1089	1357	1444	2007	3006	3306	3416	3646				E 2000
												2967

FILENAME: R-2206BA_Sgn_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 104 TYPE: A BACKG COLOR: Green COPY COLOR: White

DESIGN BY: W. Johnson CHECKED BY: J. Martinez DATE: May 13, 2008

PROJECT ID: R-2206BA & CA DIV: 12

QUANTITY: 1

SYMBOL	X	Y	WID	HT
NC483	1700	2211	900	900

SIGN WIDTH: 4300mm HEIGHT: 3400mm TOTAL AREA: 14.6 Sq.m

BORDER TYPE: FLUSH RECESS: 0mm WIDTH: 50mm RADII: 300mm

NO. Z BARS: 3 LENGTH: 4096.8 MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

L	i	n	c	o	l	i	n	t	o	n	Series/Size	
478	862	1102	1490	1842	2238	2478	2862	3162	3558		EM 2000	
											3344	
M	o	o	r	e	s	v	i	l	l	e	Series/Size	
376	848	1208	1604	1864	2208	2562	2976	3216	3456	3660		EM 2000
												3548
E	X	I	T	2	M	I	L	E	S	Series/Size		
708	931	1198	1286	1848	2527	2827	2937	3167	3389			E 2000
												2884

FILENAME: R-2206BA_Sgn_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN DESIGNS



TIP NO. R-2206BA & CA SHEET NO. SIGN-12
 APPROVED: *[Signature]*
 DATE: 5/13/08
 SEAL



SIGN NUMBER: 105
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 4300mm
 HEIGHT: 3400mm
 TOTAL AREA: 14.6 Sq.m
 BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 50mm
 RADII: 300mm
 NO. Z BARS: 3
 LENGTH: 4096.8

SYMBOL	X	Y	WID	HT
NC483	1700	2211	900	900

DESIGN BY: W. Johnson CHECKED BY: J. Martinez DATE: May 13, 2008
 PROJECT ID: R-2206BA & CA DIV: 12



- USE NOTES: 1,2,3,4
- Legend and border shall be direct applied Grade B sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields shall be on 0.032" (0.8mm) aluminum and demountable.
 - Shields shall be Grade B sheeting.

LETTER POSITIONS

Letter locations are panel edge to lower left corner

L	i	n	c	o	l	i	n	t	o	n	Series/Size	Text Length
478	862	1102	1490	1842	2238	2478	2862	3162	3558		EM 2000	3344
M	o	o	r	e	s	v	i	l	i	e	EM 2000	3548
E	X	I	T	1	M	I	L	E		E 2000	2455	

FILENAME: R-2206BC_Sgn_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 108
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 4300mm
 HEIGHT: 3400mm
 TOTAL AREA: 14.6 Sq.m
 BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 76mm
 RADII: 305mm
 NO. Z BARS: 3
 LENGTH: 4096.8

SYMBOL	X	Y	WID	HT
NC483	1700	2216	900	900

DESIGN BY: W. Johnson CHECKED BY: J. Martinez DATE: May 13, 2008
 PROJECT ID: R-2206BA & CA DIV: 12



- USE NOTES: 1,2,3,4
- Legend and border shall be direct applied Grade B sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields shall be on 0.032" (0.8mm) aluminum and demountable.
 - Shields shall be Grade B sheeting.

LETTER POSITIONS

Letter locations are panel edge to lower left corner

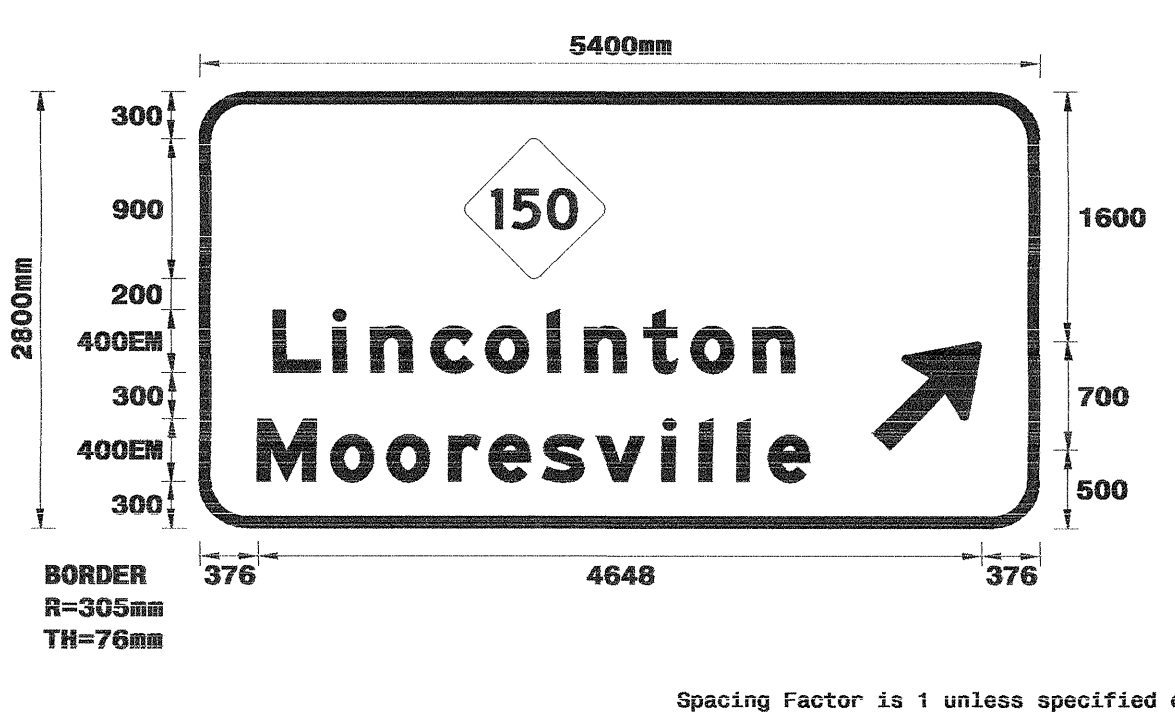
L	i	n	c	o	l	i	n	t	o	n	Series/Size	Text Length
478	862	1102	1490	1842	2238	2478	2862	3162	3558		EM 2000	3344
M	o	o	r	e	s	v	i	l	i	e	EM 2000	3548
E	X	I	T	3/4	M	I	L	E		E 2000	2967	

FILENAME: R-2206BC_Sgn_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 106,107
 TYPE: A
 QUANTITY: 2
 SIGN WIDTH: 5400mm
 HEIGHT: 2800mm
 TOTAL AREA: 15.1 Sq.m
 BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 76mm
 RADII: 305mm
 NO. Z BARS: 3
 LENGTH: 5196.8

SYMBOL	X	Y	WID	HT
NC483	1700	1600	900	900
ARMED	4324	500	571	900

DESIGN BY: W. Johnson CHECKED BY: J. Martinez DATE: May 12, 2008
 PROJECT ID: R-2206BA & CA DIV: 12



- USE NOTES: 1,2,3,4
- Legend and border shall be direct applied Grade B sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields shall be on 0.032" (0.8mm) aluminum and demountable.
 - Shields shall be Grade B sheeting.

LETTER POSITIONS

Letter locations are panel edge to lower left corner

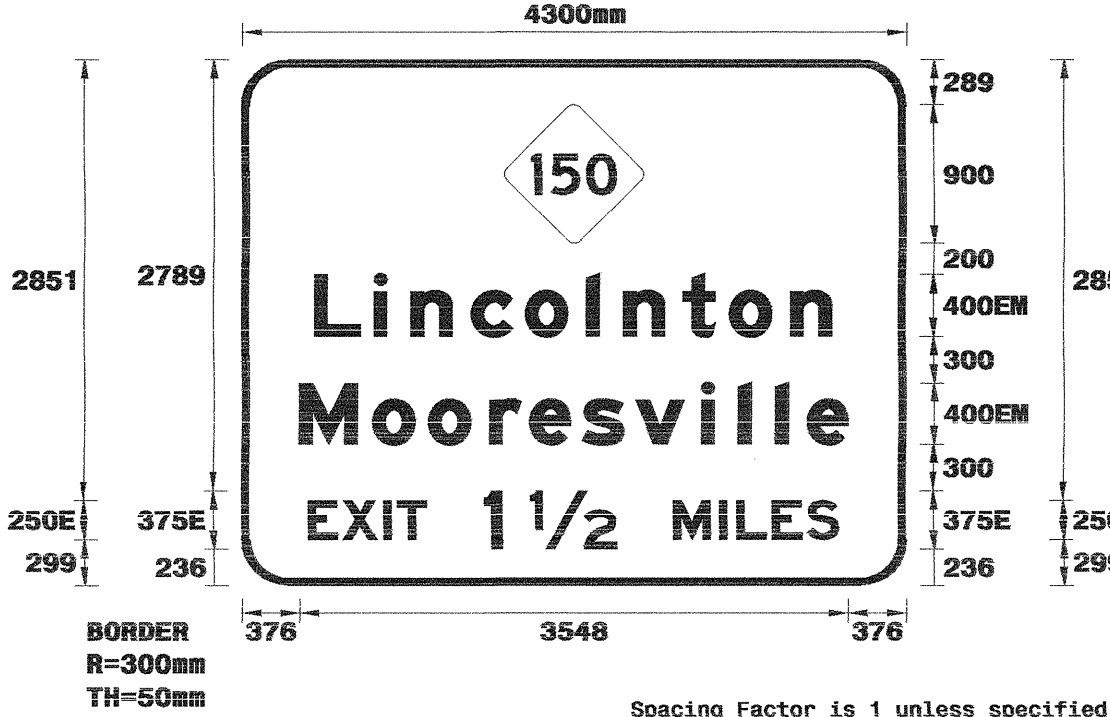
L	i	n	c	o	l	i	n	t	o	n	Series/Size	Text Length
478	862	1102	1490	1842	2238	2478	2862	3162	3558		EM 2000	3344
M	o	o	r	e	s	v	i	l	i	e	EM 2000	3548

FILENAME: R-2206bc_sgn_sign design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 109
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 4300mm
 HEIGHT: 3400mm
 TOTAL AREA: 14.6 Sq.m
 BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 50mm
 RADII: 300mm
 NO. Z BARS: 3
 LENGTH: 4096.8

SYMBOL	X	Y	WID	HT
NC483	1700	2211	900	900

DESIGN BY: W. Johnson CHECKED BY: J. Martinez DATE: May 13, 2008
 PROJECT ID: R-2206BA & CA DIV: 12



- USE NOTES: 1,2,3,4
- Legend and border shall be direct applied Grade B sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields shall be on 0.032" (0.8mm) aluminum and demountable.
 - Shields shall be Grade B sheeting.

LETTER POSITIONS

Letter locations are panel edge to lower left corner

L	i	n	c	o	l	i	n	t	o	n	Series/Size	Text Length
478	862	1102	1490	1842	2238	2478	2862	3162	3558		EM 2000	3344
M	o	o	r	e	s	v	i	l	i	e	EM 2000	3548
E	X	I	T	1 1/2	M	I	L	E	S	E 2000	3429	

FILENAME: R-2206BC_Sgn_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN DESIGNS



TIP NO. R-2206BA & CA SHEET NO. SIGN-14
 APPROVED: *[Signature]*
 DATE: 5/13/08
 SEAL



SIGN NUMBER: 302 TYPE: D QUANTITY: 1
 SIGN WIDTH: 2000mm HEIGHT: 800mm TOTAL AREA: 1.6 Sq.m
 BORDER TYPE: FLUSH RECESS: 0mm WIDTH: 20mm RADII: 76mm
 NO. Z BARS: LENGTH:

SYMBOL	X	Y	WID	HT
ARUP	157	483	150	225
ARUP	443	130	150	225

BACKG COLOR: Green/Green COPY COLOR: White
 DESIGN BY: W. Johnson CHECKED BY: J. Martinez DATE: May 01, 2008
 PROJECT ID: R-2206BA & CA DIV: 12

BORDER R=76mm TH=20mm

USE NOTES: 1,2
 1. Legend and border shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	H	U	N	T	E	R	S	V	I	L	L	E		Series/Size Text Length
	457	138	138	125	116	119	117	114	137	60	116	93	157	D 2000 1386
		N	E	W	T	O	N							D 2000 740
		818	138	105	143	113	140	102	443					

FILENAME: r-2206bc_sgn_sign design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 304 TYPE: D QUANTITY: 1
 SIGN WIDTH: 1800mm HEIGHT: 900mm TOTAL AREA: 1.6 Sq.m
 BORDER TYPE: FLUSH RECESS: 0mm WIDTH: 25mm RADII: 76mm
 NO. Z BARS: LENGTH:

SYMBOL	X	Y	WID	HT
ARUP	162	482	150	225
ARUP	157	130	150	250

BACKG COLOR: Green COPY COLOR: White
 DESIGN BY: W. Johnson CHECKED BY: J. Martinez DATE: May 07, 2008
 PROJECT ID: R-2206BA & CA DIV: 12

BORDER R=76mm TH=25mm

USE NOTES: 1,2
 1. Legend and border shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	D	E	N	V	E	R	7							Series/Size Text Length
	148	180	158	166	182	158	136	388	136	148				D 2000 1504
		N	E	W	T	O	N							D 2000 1504
		148	184	140	190	150	186	136	200	176	142	148		

FILENAME: R-2206BC_Sgn_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 303,305 TYPE: D QUANTITY: 2
 SIGN WIDTH: 1700mm HEIGHT: 800mm TOTAL AREA: 1.4 Sq.m
 BORDER TYPE: FLUSH RECESS: 0mm WIDTH: 20mm RADII: 76mm
 NO. Z BARS: LENGTH:

SYMBOL	X	Y	WID	HT
ARUP	157	483	150	225
ARUP	1170	130	150	250

BACKG COLOR: Green/Green COPY COLOR: White
 DESIGN BY: W. Johnson CHECKED BY: J. Martinez DATE: May 01, 2008
 PROJECT ID: R-2206BA & CA DIV: 12

BORDER R=76mm TH=20mm

USE NOTES: 1,2
 1. Legend and border shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	C	H	A	R	L	O	T	T	E					Series/Size Text Length
	457	135	125	150	128	113	126	102	116	93	157			D 2000 1086
		N	E	W	T	O	N							D 2000 740
		280	138	105	143	113	139	102	680					

FILENAME: r-2206bc_sgn_sign design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 306 TYPE: D QUANTITY: 1
 SIGN WIDTH: 1800mm HEIGHT: 800mm TOTAL AREA: 1.4 Sq.m
 BORDER TYPE: FLUSH RECESS: 0mm WIDTH: 20mm RADII: 76mm
 NO. Z BARS: LENGTH:

SYMBOL	X	Y	WID	HT
ARUP	162	482	150	225
ARUP	157	130	150	250

BACKG COLOR: Green/Green COPY COLOR: White
 DESIGN BY: W. Johnson CHECKED BY: J. Martinez DATE: May 07, 2008
 PROJECT ID: R-2206BA & CA DIV: 12

BORDER R=76mm TH=20mm

USE NOTES: 1,2
 1. Legend and border shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	L	I	N	C	O	L	N	T	O	N					Series/Size Text Length
	462	115	60	135	132	140	116	124	113	139	102	162			D 2000 1176
		C	H	A	R	L	O	T	T	E					D 2000 1086
		557	135	125	150	128	113	128	102	116	93	157			

FILENAME: R-2206BC_Sgn_Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

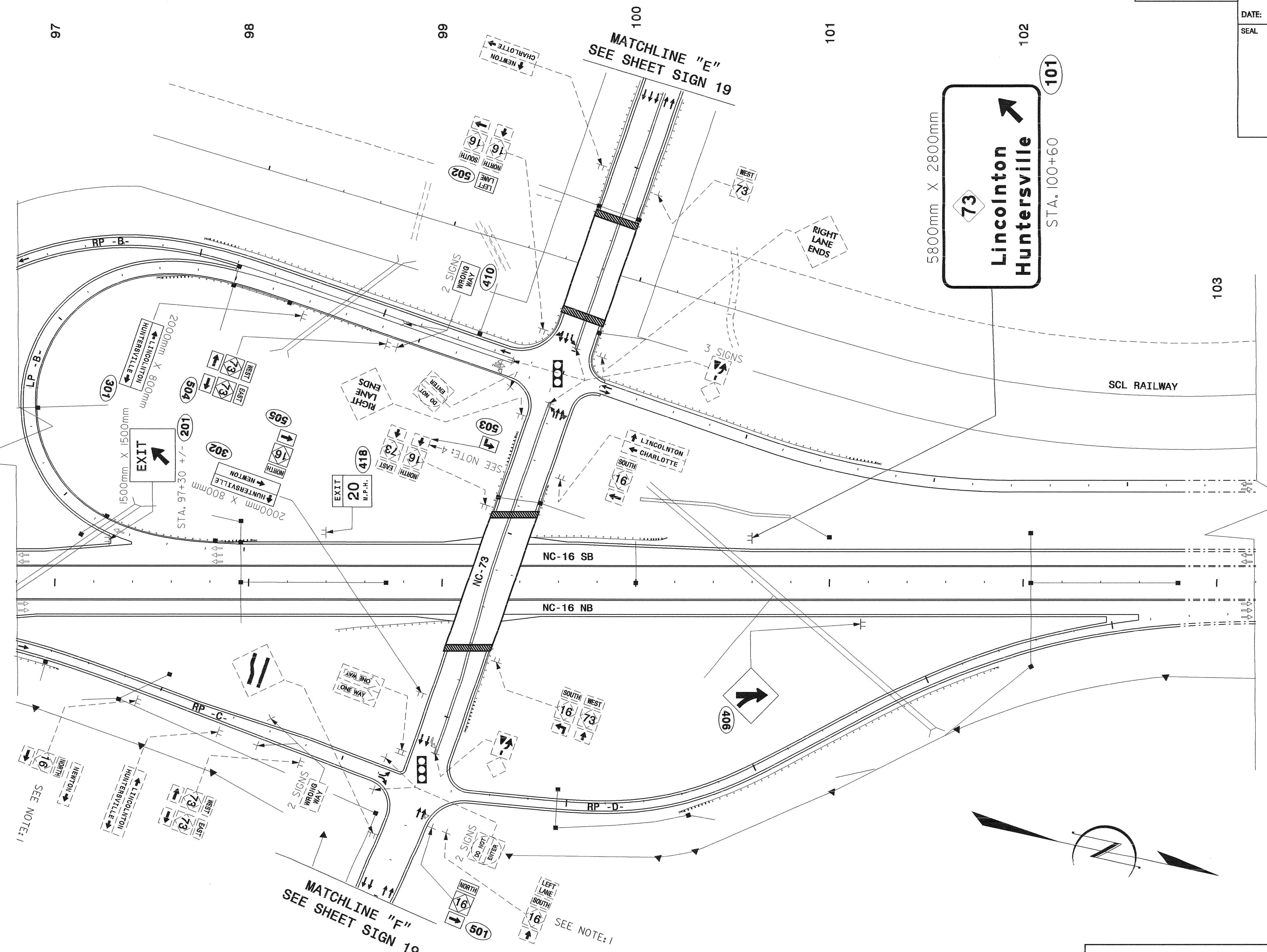
SIGN DESIGNS



TIP NO.	R-2206BA & CA	SIGN-18
APPROVED:	<i>[Signature]</i>	
DATE:	5/13/08	
SEAL		

MATCHLINE "C"
SEE SHEET SIGN 17

MATCHLINE "D"
SEE SHEET SIGN 21



EXISTING AND PROPOSED SIGNS
STA. 96+80 TO STA. 103+20 -L-

*****SYTIME*****
*****PLANNING*****
*****DESIGN*****
*****CONSTRUCTION*****

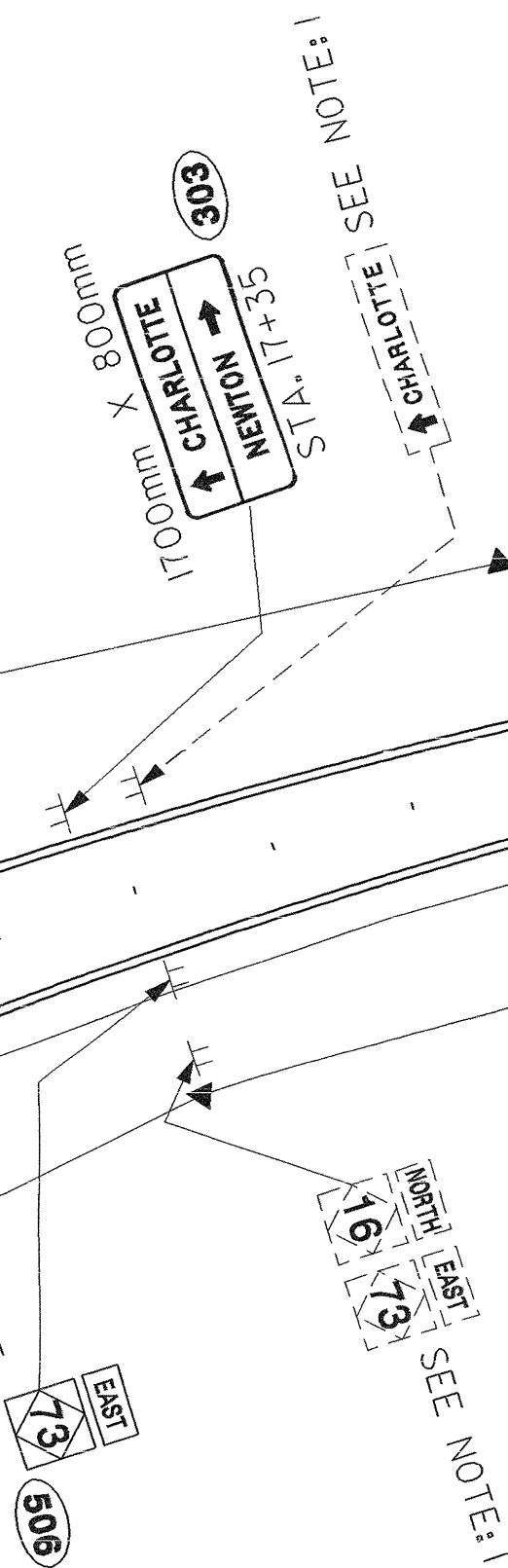
*****SYSTEMS*****
*****REVISIONS*****
*****DRAWING*****

MATCHLINE "NC73"
SEE SHEET 20



17

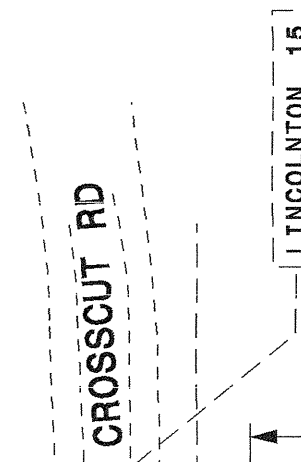
SEE SHEET SIGN "F"
SEE SHEET SIGN 18



18

SEE NOTE 1

9



19

NC-73/INTERIM NC-16

180m TAPER

10

90m TAPER

20

SPEED LIMIT 55

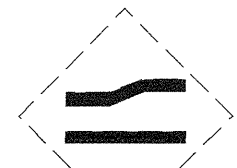
11

SPEED LIMIT 55

21



12



MATCHLINE "E"
SEE SHEET SIGN 18


EXISTING AND PROPOSED SIGNS
STA. 8+00 TO 21+85 NC-73



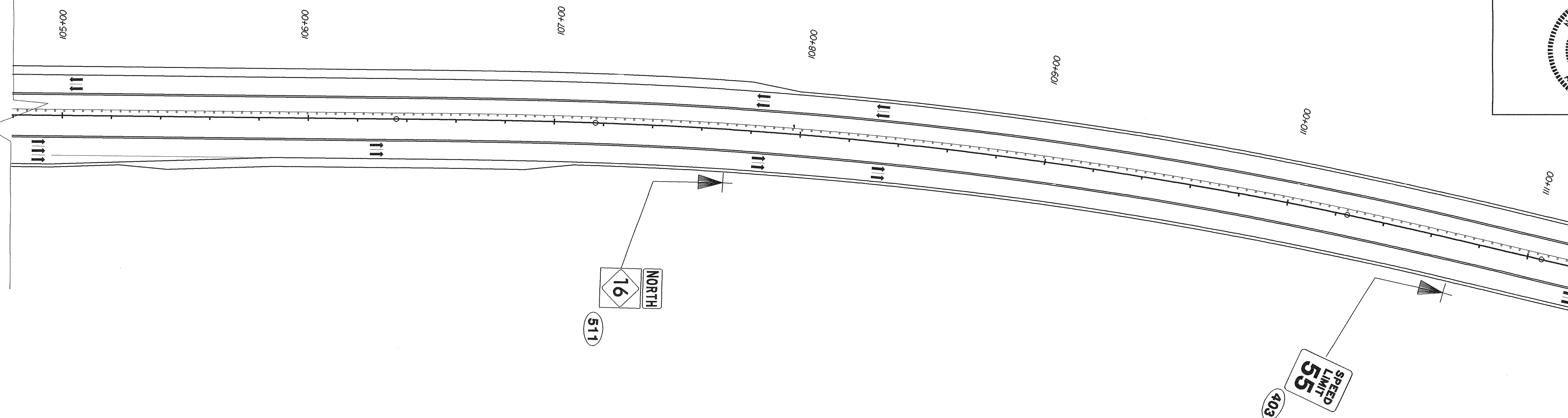
TIP NO.	R-2206BA & CA	SIGN-19
APPROVED:	<i>Alman I. Alquodmani</i>	
DATE:	5/13/08	
SEAL		



TIP NO. R-2206BA & CA	SIGN-21
APPROVED: <i>[Signature]</i>	
DATE: 5/13/08	
SEAL	

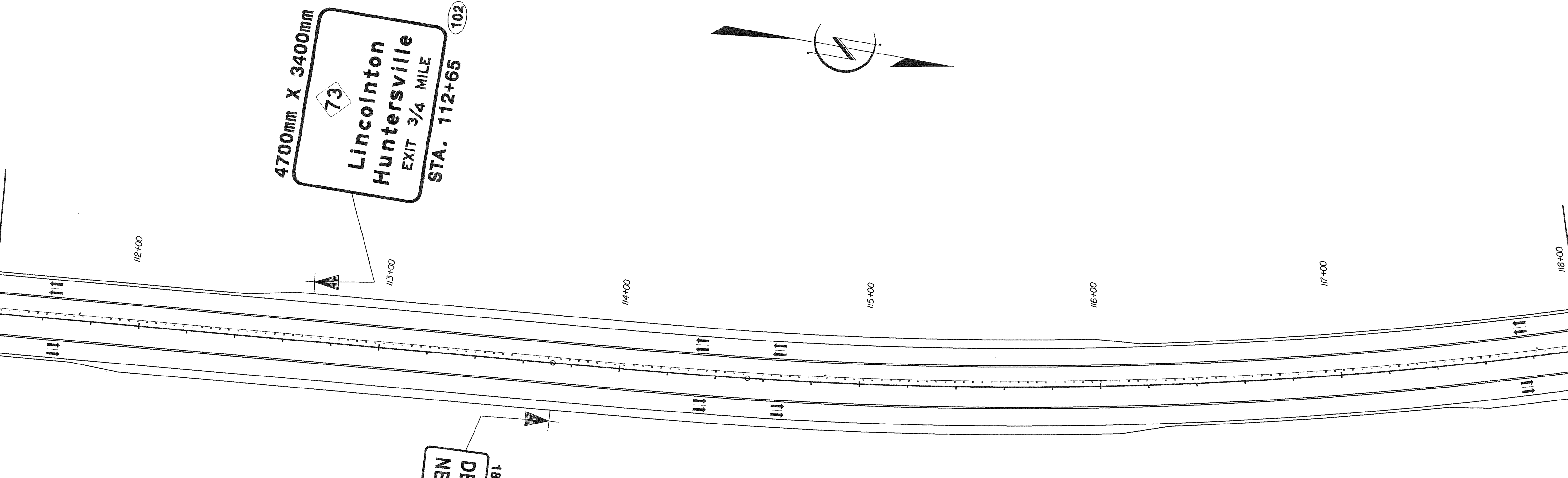


MATCHLINE "D"
SEE SHEET 18



SEE BELOW

SEE ABOVE



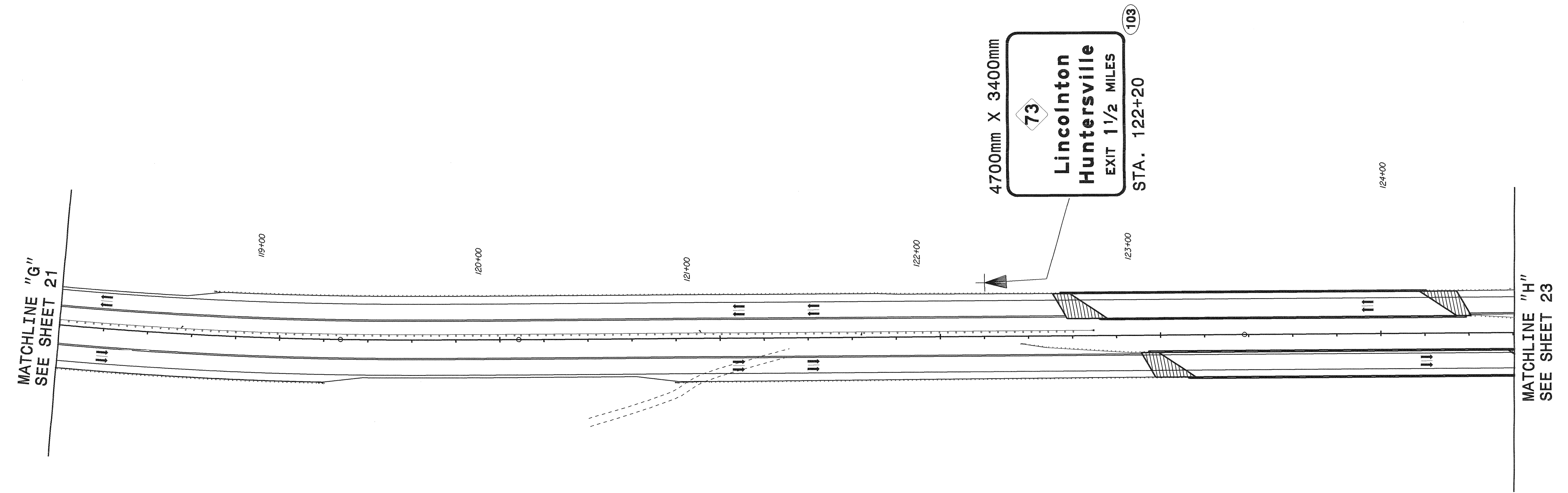
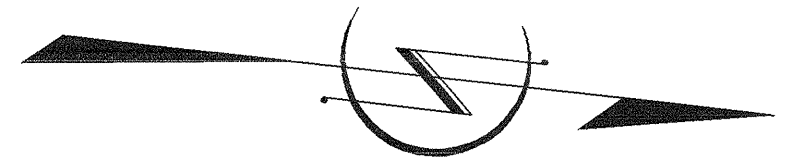
MATCHLINE "G"
SEE SHEET 22

PROPOSED SIGNS
STA. 104+80 TO 118+00 NC-16

*****SYSTEM*****
*****PRINTED*****
*****DATE*****
*****TIME*****



TIP NO. R-2206BA & CA	SIGN-22
APPROVED: <i>[Signature]</i>	
DATE: 5/13/08	
SEAL	

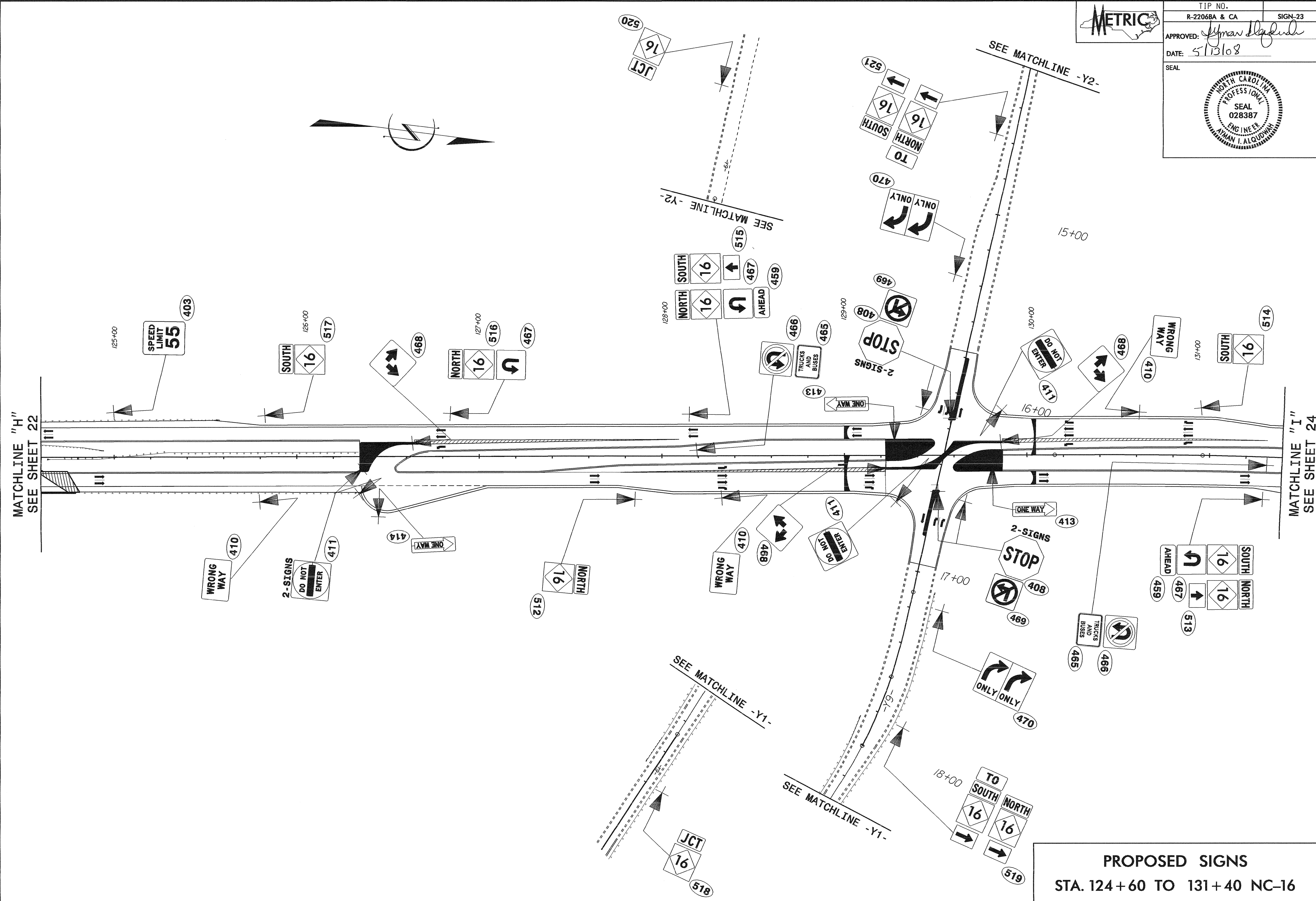


PROPOSED SIGNS
STA. 118+00 TO 124+60 NC-16

 SYSTEMS



TIP NO. R-2206BA & CA SIGN-23
 APPROVED: *Yman Alqodbi*
 DATE: 5/13/08
 SEAL

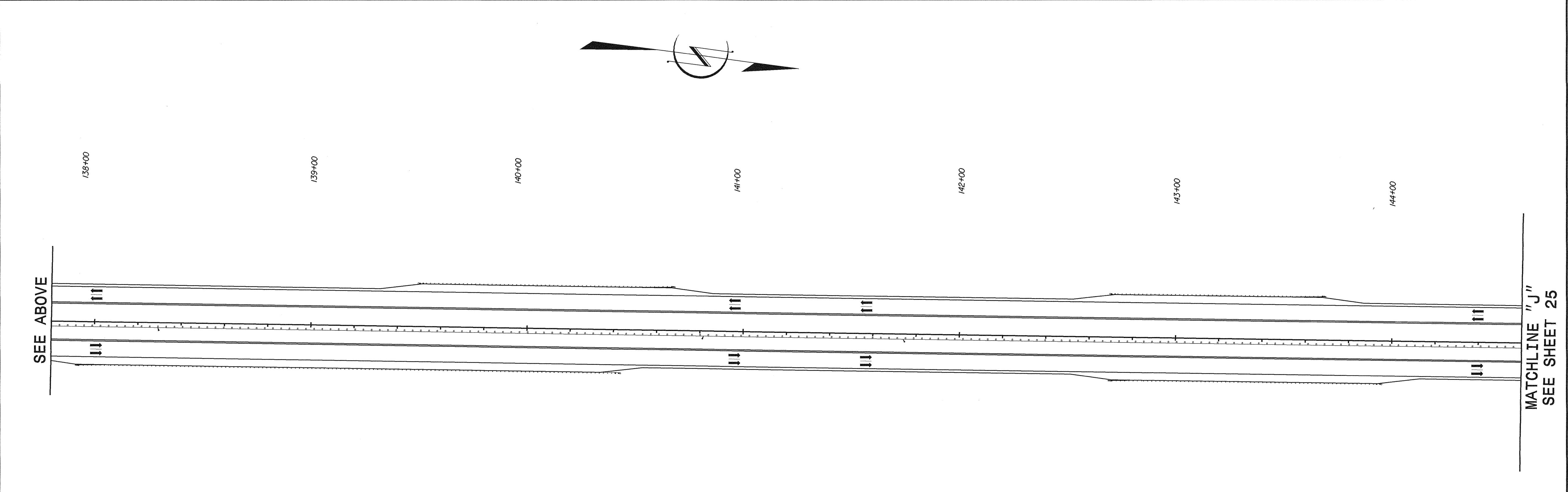
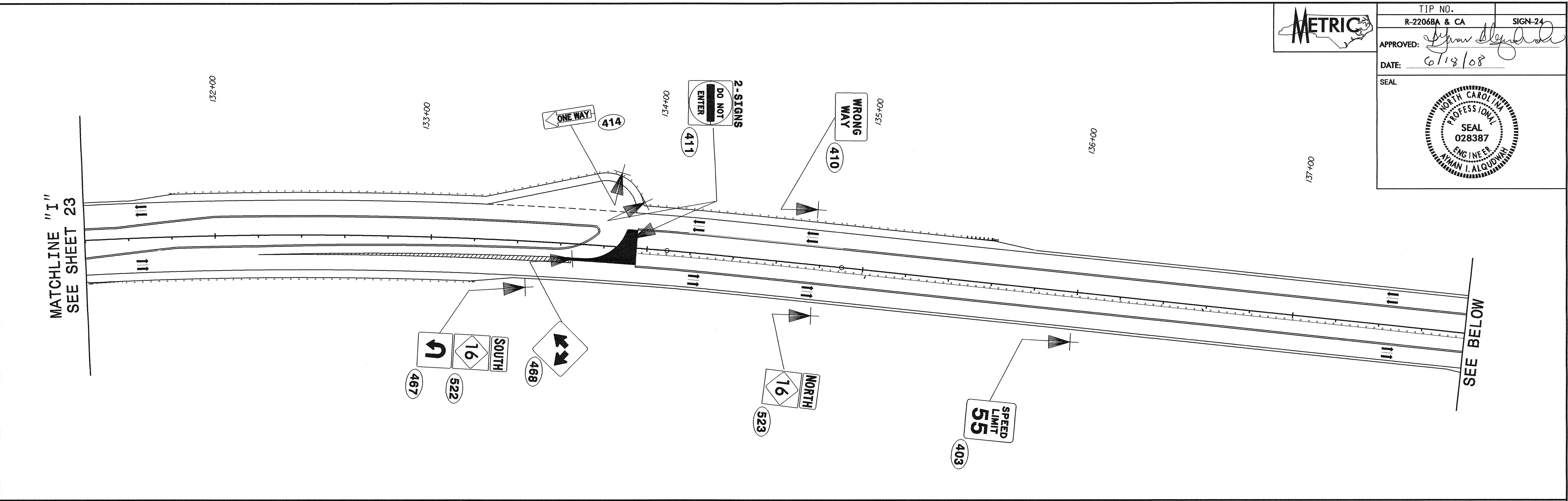


PROPOSED SIGNS
 STA. 124+60 TO 131+40 NC-16

SYSTEMS
 11/11/07



TIP NO.	R-2206BA & CA	SIGN-24
APPROVED:	<i>[Signature]</i>	
DATE:	6/18/08	
SEAL		



MATCHLINE "I"
SEE SHEET 23

SEE BELOW

SEE ABOVE

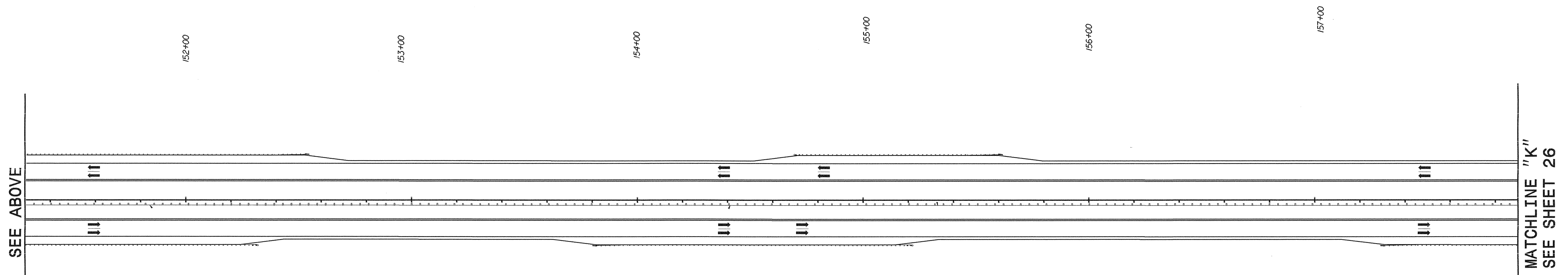
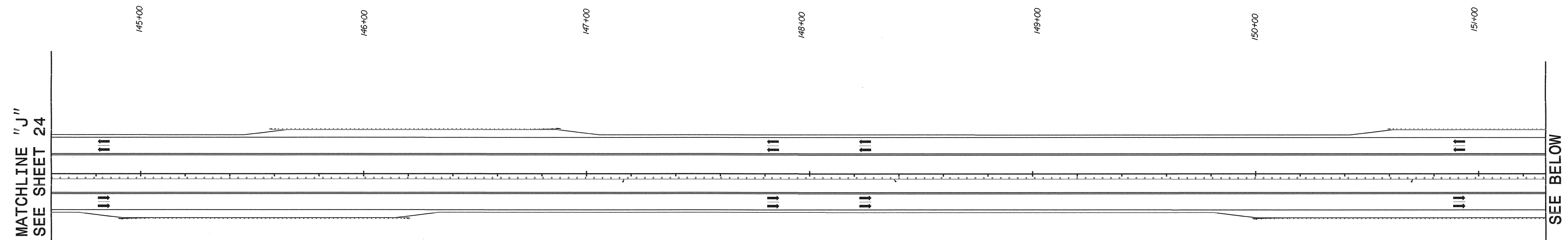
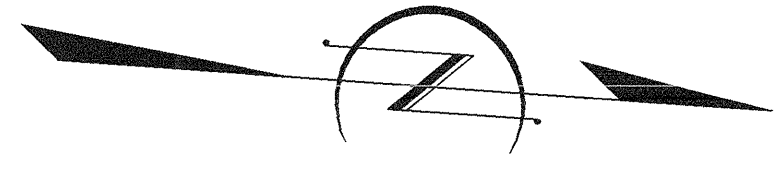
MATCHLINE "J"
SEE SHEET 25

PROPOSED SIGNS
STA. 131+40 TO 144+60 NC-16

SYTIME



TIP NO.	R-2206BA & CA	SIGN-25
APPROVED:	<i>[Signature]</i>	
DATE:	5/13/08	
SEAL		

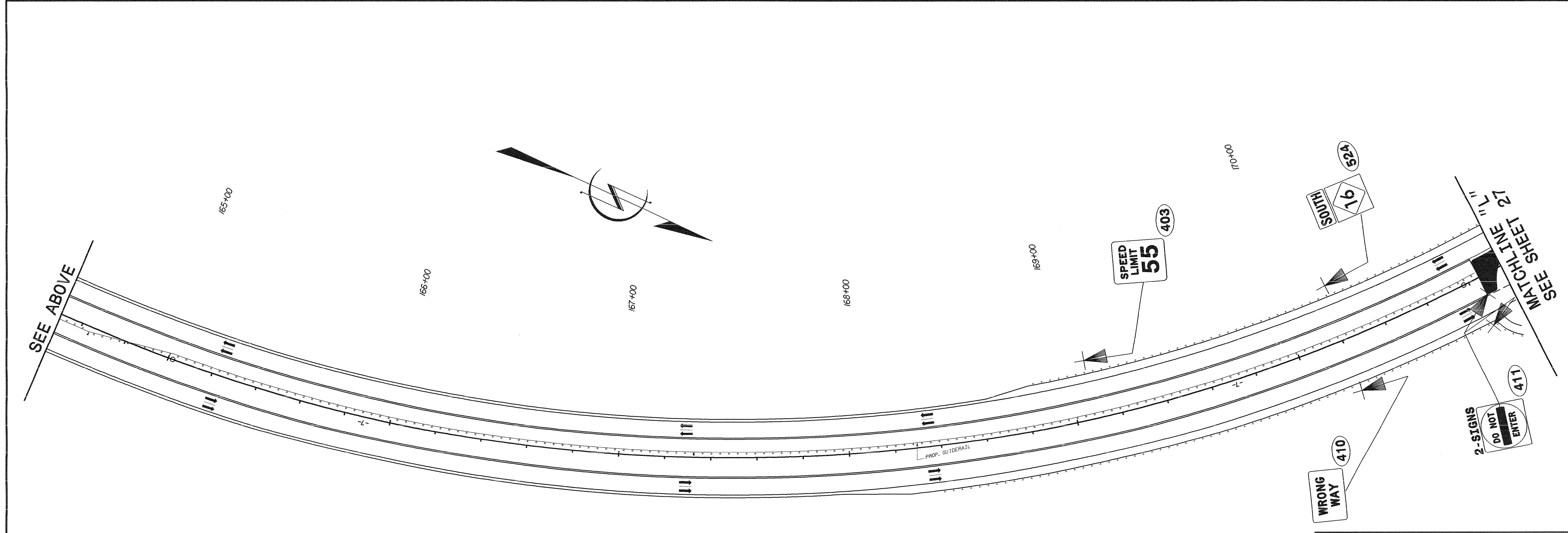
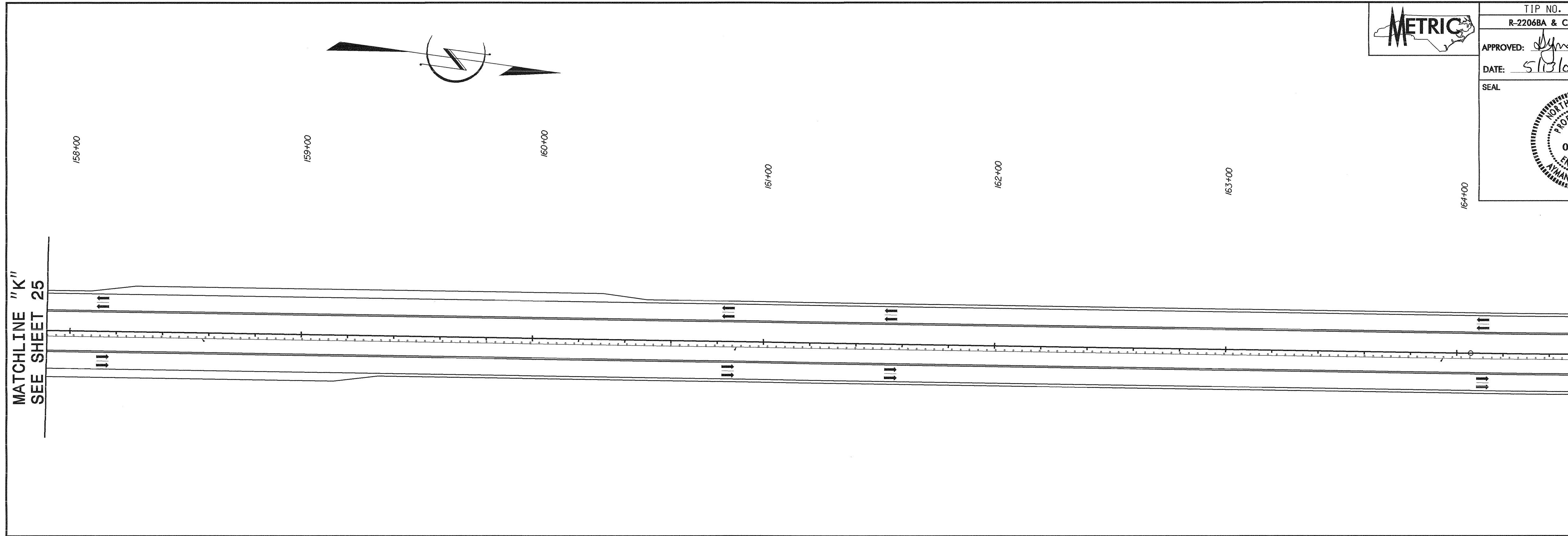


PROPOSED SIGNS
STA. 144+60 TO 157+90 NC-16

*****SYSTEMS*****



TIP NO.	R-2206BA & CA	SIGN-26
APPROVED:	<i>[Signature]</i>	
DATE:	5/13/08	
SEAL		

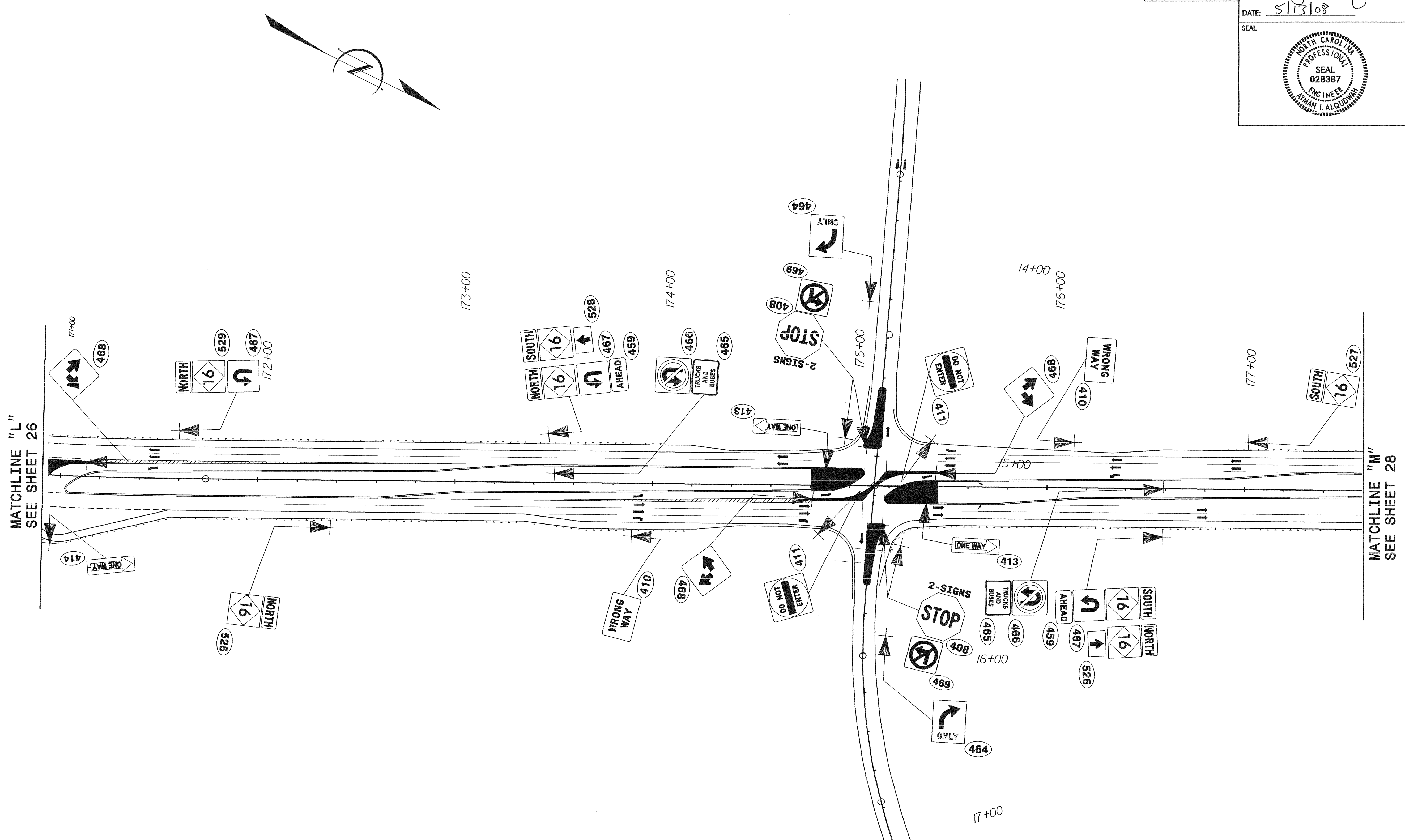


PROPOSED SIGNS
STA. 157+90 TO 170+95 NC-16

*****SYSTEMTIME*****
 *****PLT*****
 *****PLOT*****
 *****PLOT*****



TIP NO.	R-2206BA & CA	SIGN-27
APPROVED:	<i>[Signature]</i>	
DATE:	5/13/08	
SEAL		

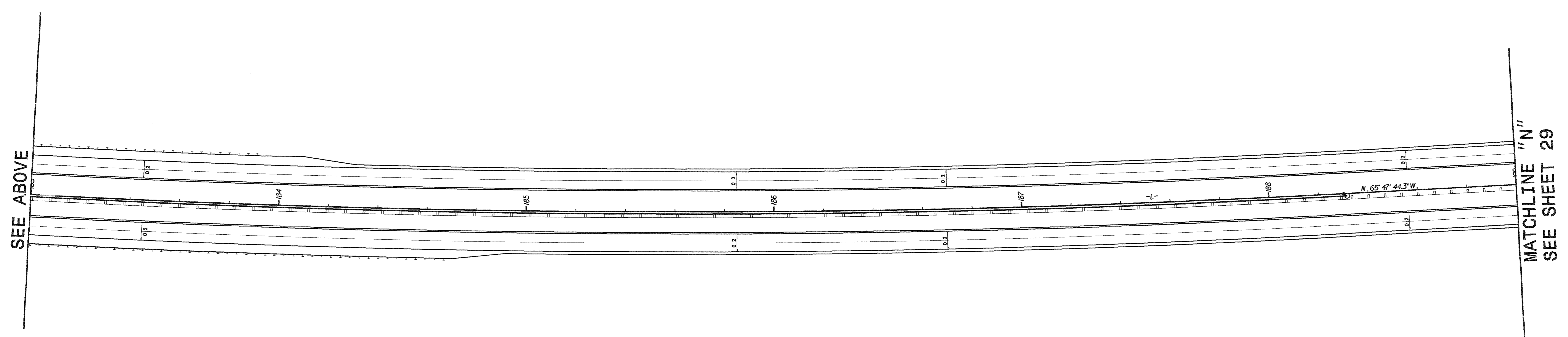
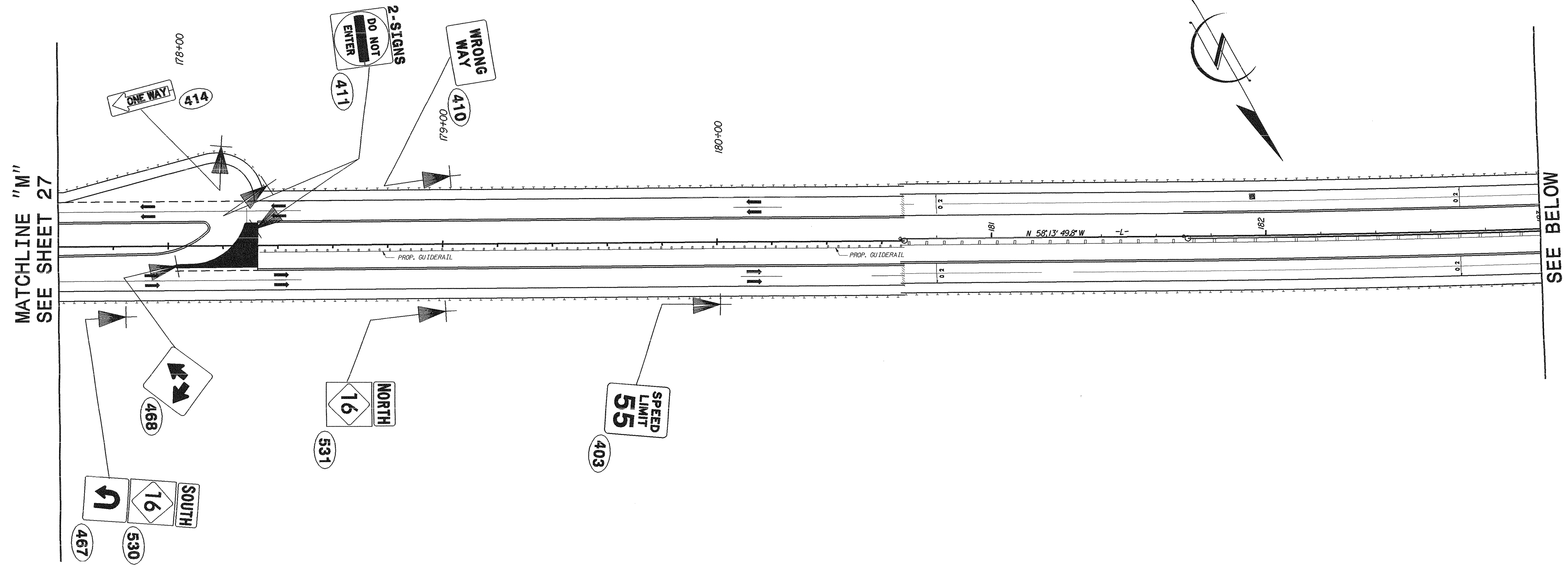


PROPOSED SIGNS
STA. 170+95 TO 177+60 NC-16

*****SYSTEM*****
 *****REVISIONS*****
 *****DATE*****
 *****BY*****



TIP NO.	R-2206BA & CA	SIGN-28
APPROVED:	<i>[Signature]</i>	
DATE:	5/13/08	
SEAL		



MATCHLINE "M"
SEE SHEET 27

SEE BELOW

SEE ABOVE

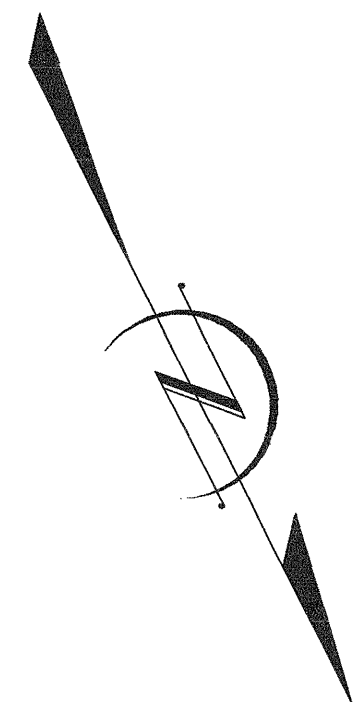
MATCHLINE "N"
SEE SHEET 29

PROPOSED SIGNS
STA. 177+60 TO 189+00 NC-16

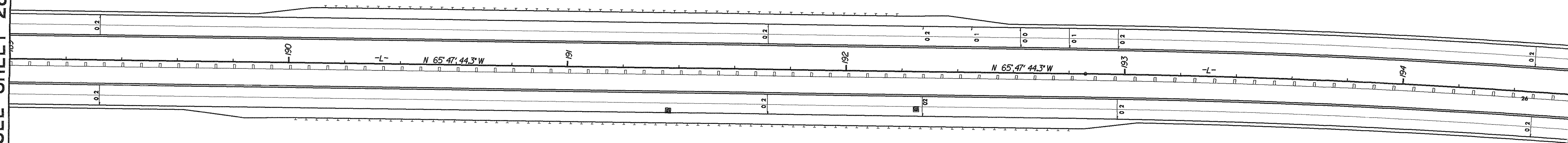
SYSTEMS



TIP NO. R-2206BA & CA	SIGN-29
APPROVED: <i>[Signature]</i>	
DATE: 5/13/08	
SEAL	

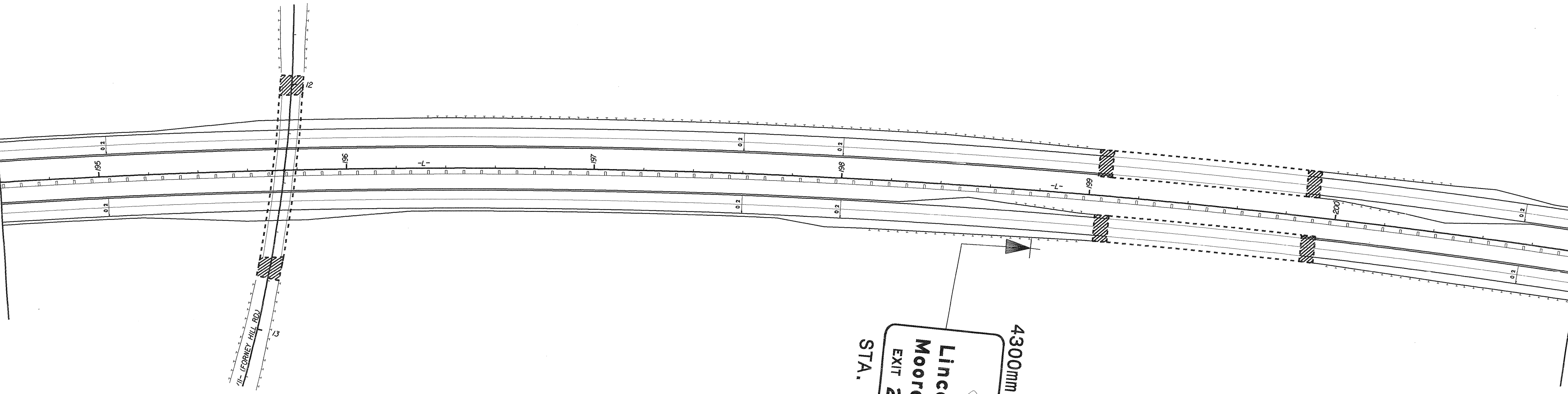


MATCHLINE "N"
SEE SHEET 28



SEE BELOW

SEE ABOVE



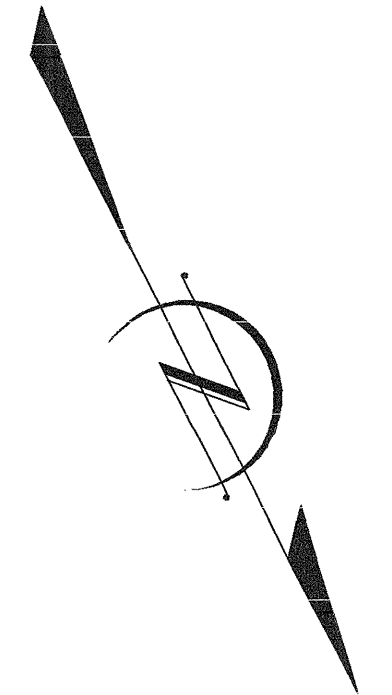
MATCHLINE "O"
SEE SHEET 30

PROPOSED SIGNS
STA. 189+00 TO 201+00 NC-16

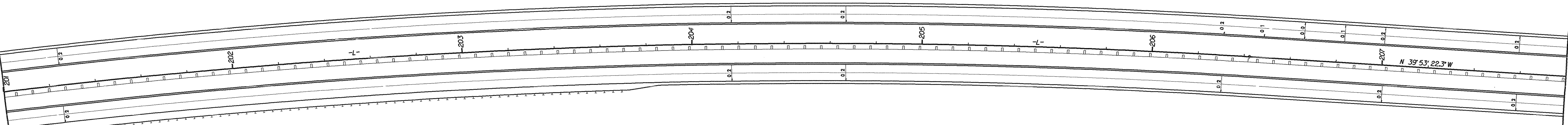
*****SYSTEM*****
*****DRAWING*****
*****DATE*****
*****SCALE*****



TIP NO.	R-2206BA & CA	SIGN-30
APPROVED:	<i>Ayman I. Alqudmani</i>	
DATE:	5/13/08	
SEAL		

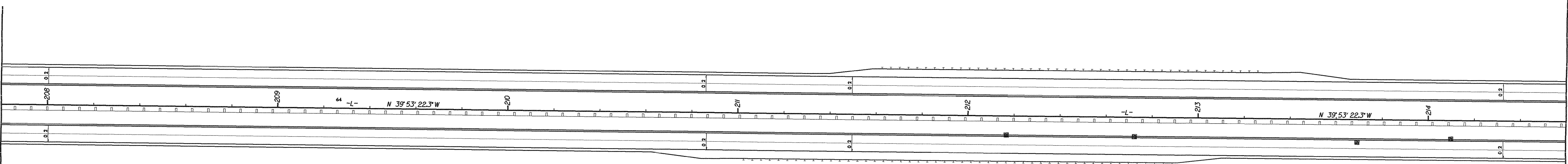


MATCHLINE "O"
SEE SHEET 29



SEE BELOW

SEE ABOVE



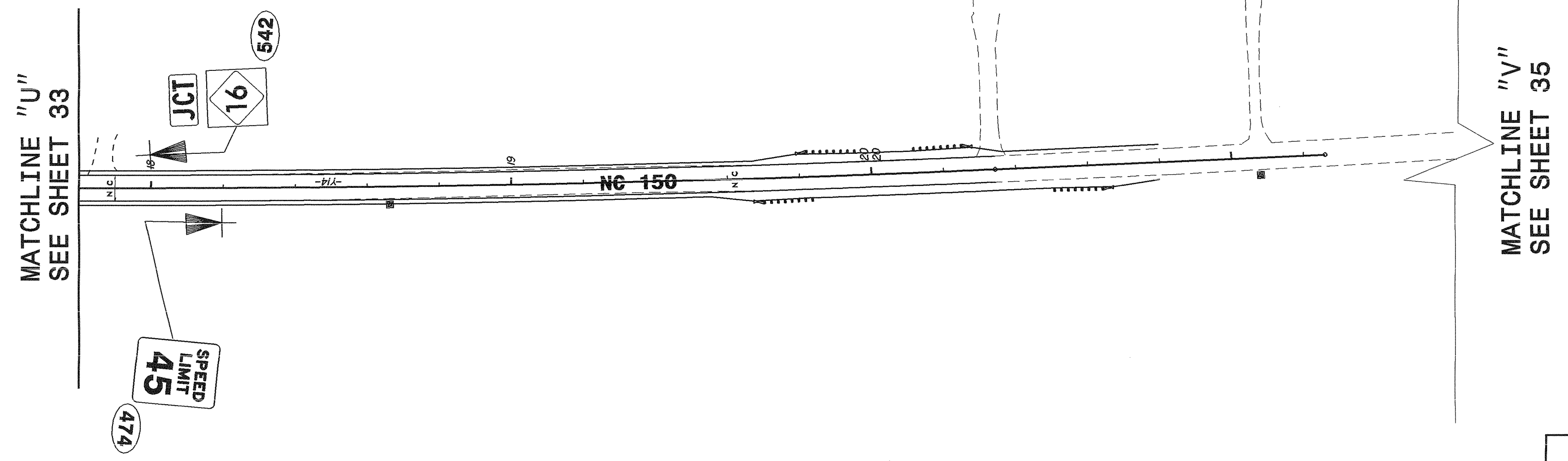
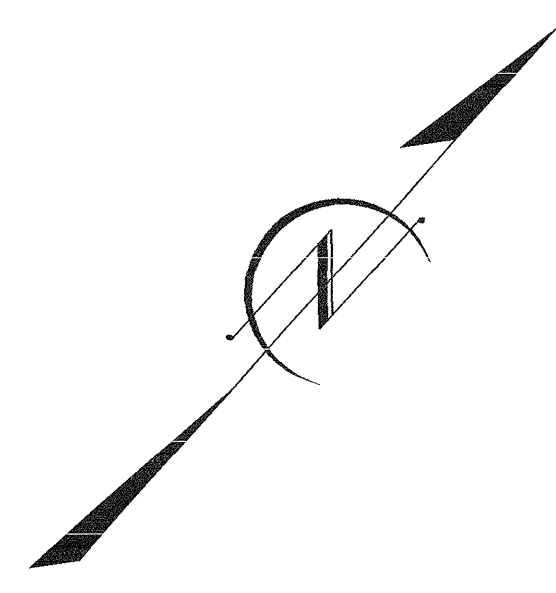
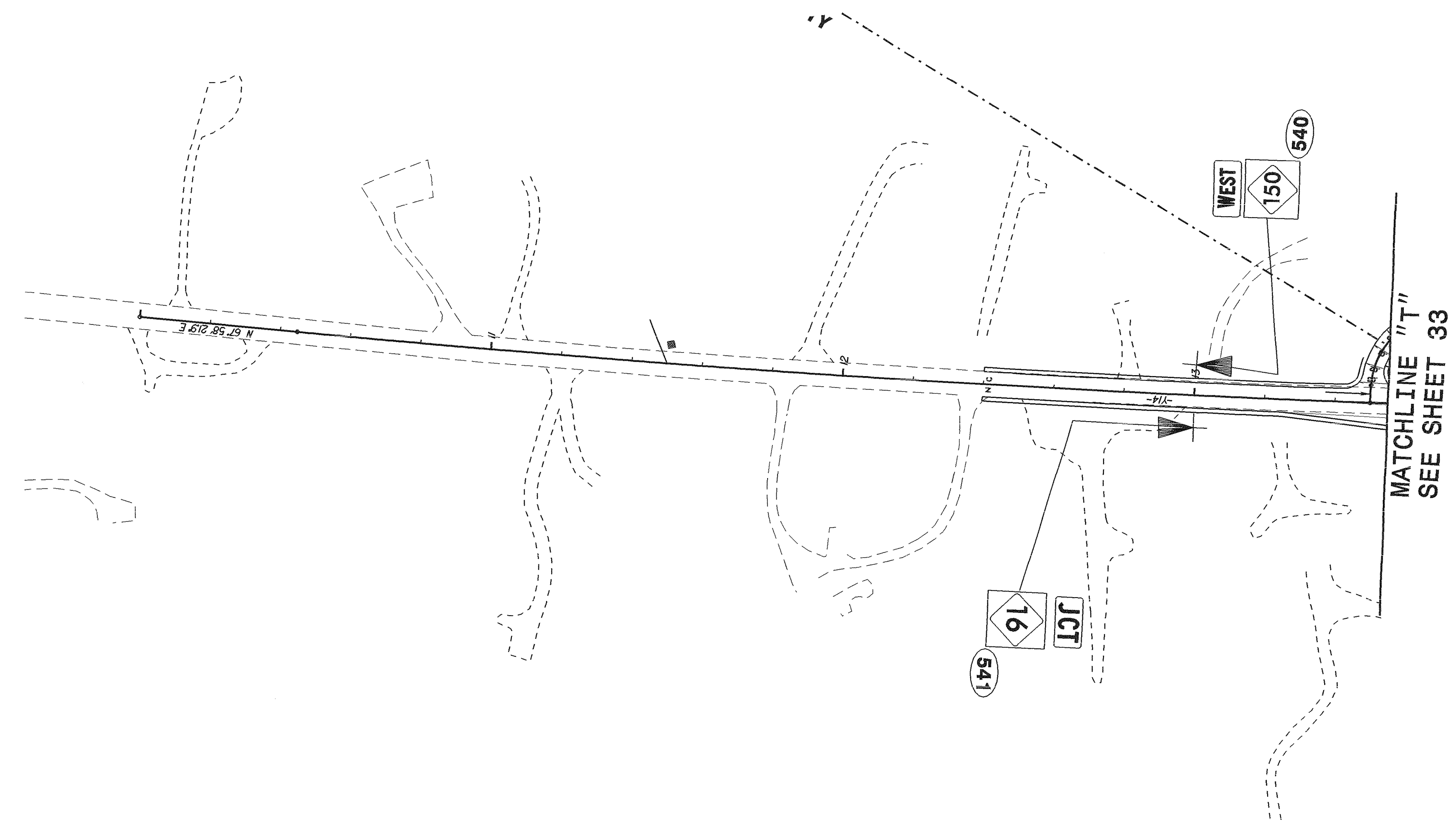
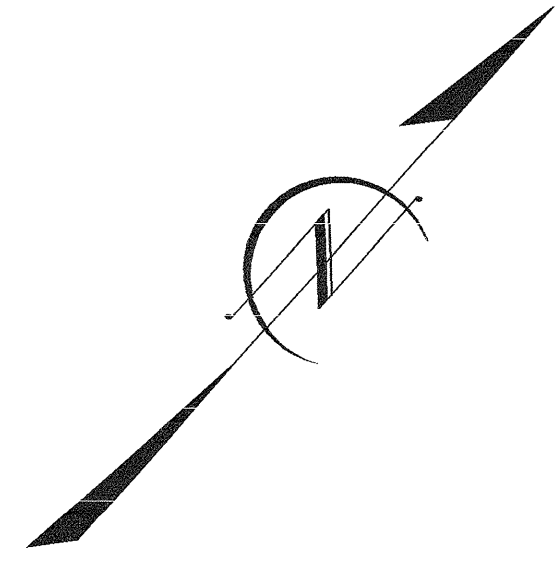
MATCHLINE "P"
SEE SHEET 31

PROPOSED SIGNS
STA. 201+00 TO 214+60 NC-16

*****SYTIME*****
*****EDUCATION*****
*****SOFTWARE*****



TIP NO.	R-2206BA & CA	SIGN-34
APPROVED:	<i>[Signature]</i>	
DATE:	5/13/08	
SEAL		

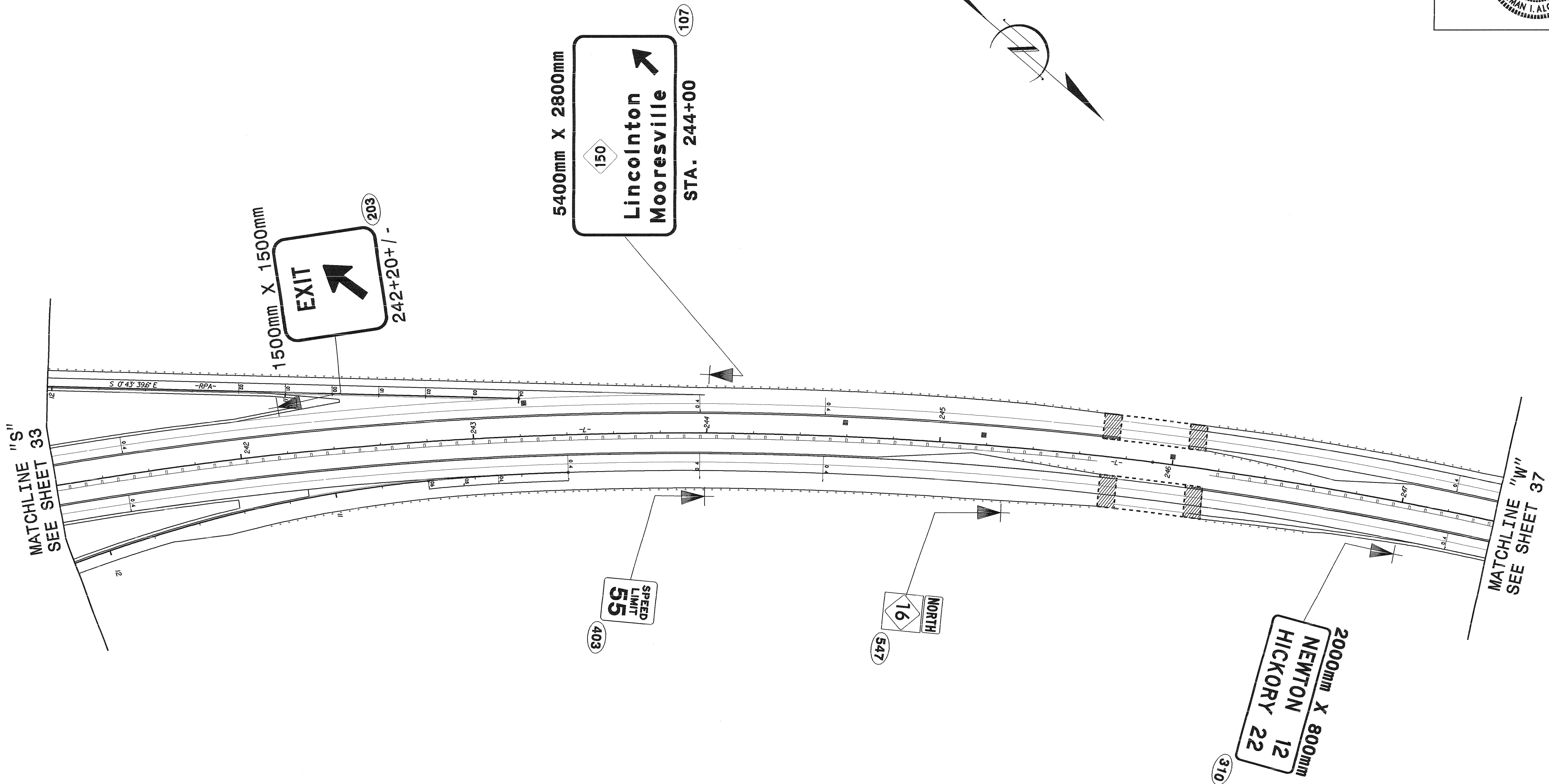


PROPOSED SIGNS
STA. 17+80 & 14+45 -Y14-

 SYSTEMS



TIP NO.	R-2206BA & CA	SIGN-36
APPROVED:	<i>[Signature]</i>	
DATE:	5/13/08	
SEAL		



PROPOSED SIGNS
STA. 241+20 TO 247+40 NC-16

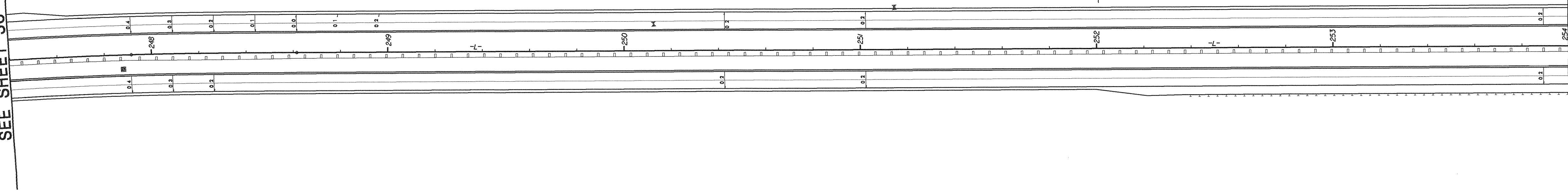
 SYSTEMS

200

2

*****SYSTEMS*****
*****CADD*****
*****DRAWING*****

MATCHLINE "W"
SEE SHEET 36

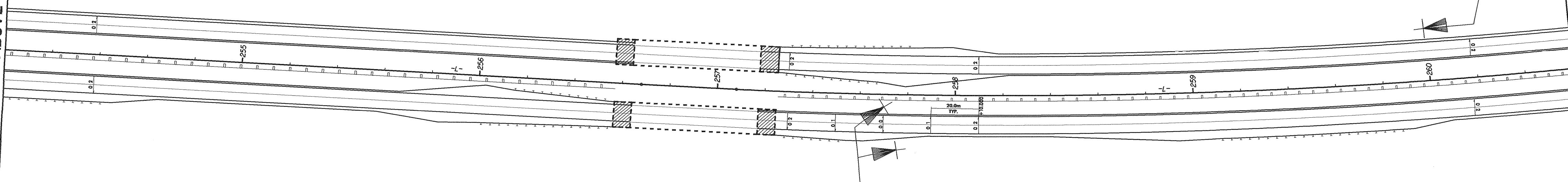


SEE BELOW

4300mm X 3400mm
 150
**Lincolnton
 Mooresville**
 EXIT 3/4 MILE
 STA. 252+00

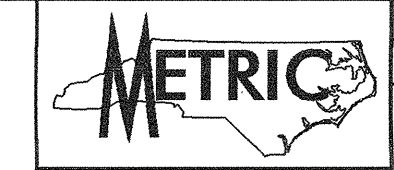
108

SEE ABOVE



MATCHLINE "X"
SEE SHEET 38

PROPOSED SIGNS
 STA. 247+40 TO 260+60 NC-16

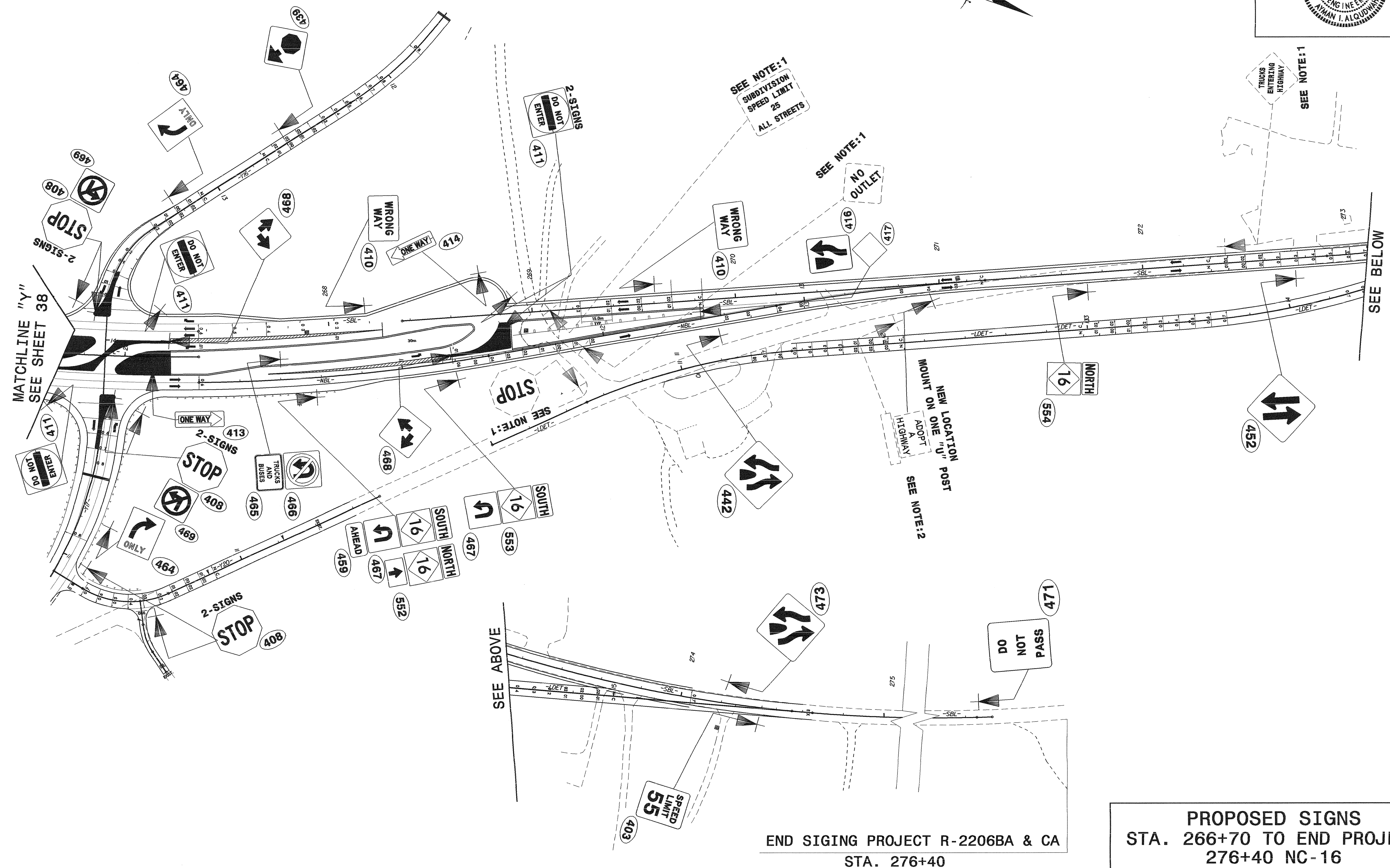
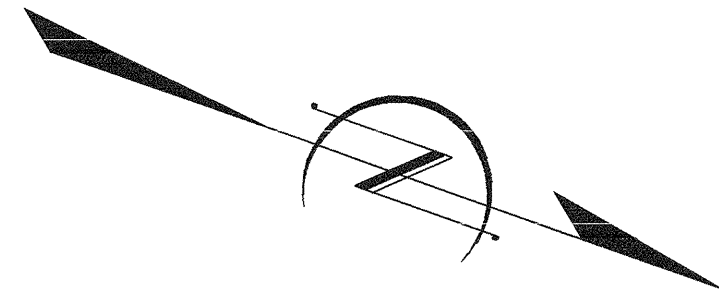


TIP NO. R-2206BA & CA	SIGN-37
APPROVED: <i>[Signature]</i>	
DATE: 5/13/08	
SEAL	





TIP NO.	R-2206BA & CA	SIGN-39
APPROVED:	<i>[Signature]</i>	
DATE:	5/13/08	
SEAL		



END SIGING PROJECT R-2206BA & CA
STA. 276+40

PROPOSED SIGNS
STA. 266+70 TO END PROJECT
276+40 NC-16

SYSTEMS
