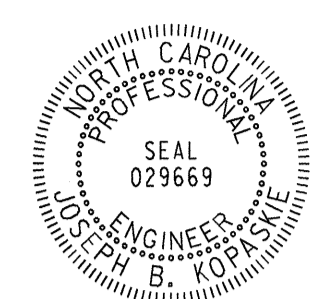



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

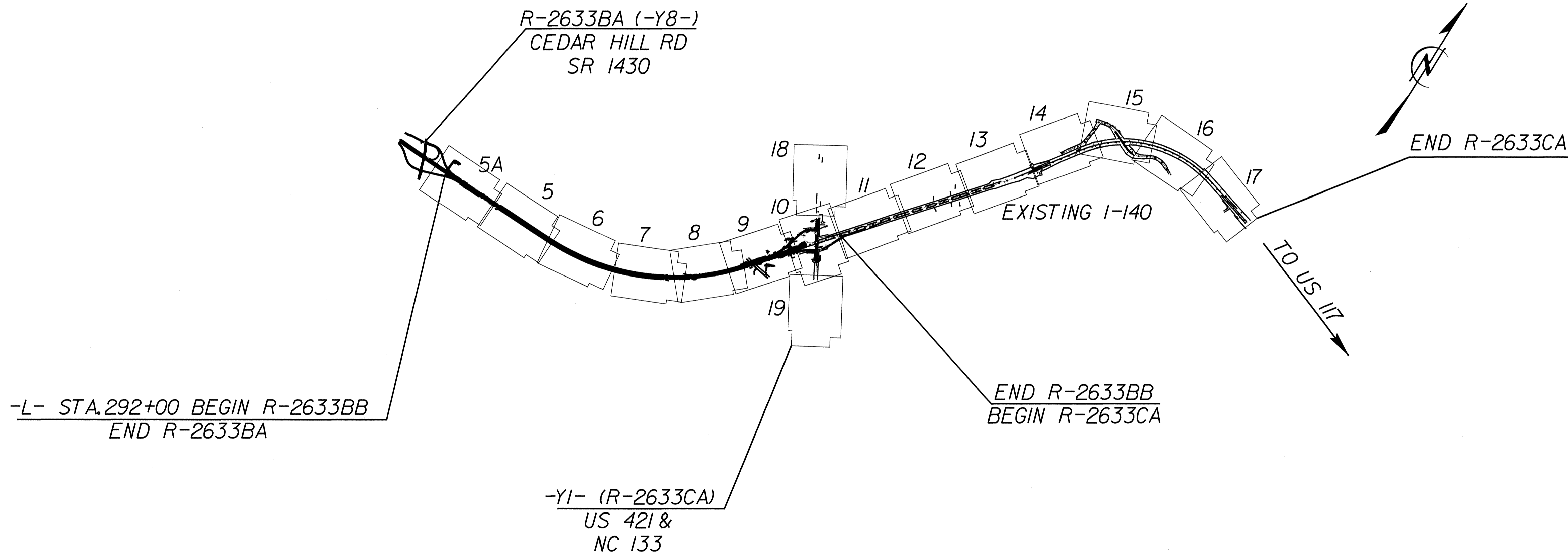
SIGNING PLAN
BRUNSWICK &
NEW HANOVER COUNTIES

LOCATION: US 17 (WILMINGTON BYPASS) FROM SR 1430
(CEDAR HILL ROAD) TO US 421 NORTH OF WILMINGTON &
US 17 WILMINGTON BYPASS FROM WEST OF US 421
TO WEST OF US 117/NC 133

TIP NO. R-2633BB	SHEET NO. SIGN-1
APPROVED: <i>[Signature]</i>	
DATE: 6/18/13	
SEAL	
	
	

T.I.P.: R-2633BB

CONTRACT: C203198



INDEX

SHEET NO.	DESCRIPTION
SIGN-1-1A	TITLE SHEET, NOTES, QUANTITIES AND SPECIFICATIONS
SIGN-2A-2E	SUPPORT INFORMATION
SIGN-3-3B	E, F & MILEMARKERS SHEETS
SIGN-4-4K	SIGN DESIGNS AND OVERHEAD DETAILS
SIGN-5A-10	R-2633BB SIGN DETAIL SHEETS
SIGN-11-19	R-2633CA OFFSITE

PLAN PREPARED BY: SEPI ENGINEERING & CONSTRUCTION

JOSEPH B. KOPASKIE, PE SIGNING & DELINEATION PROJECT ENGINEER

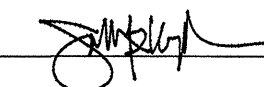
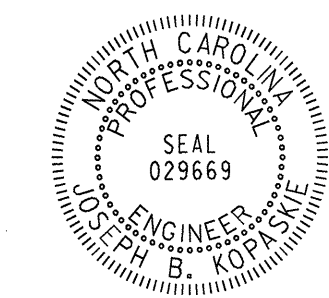
RICHARD DRAYTON SIGNING & DELINEATION PROJECT DESIGN ENGINEER

NCDOT CONTACTS:

AYAMAN I. ALQUDWAH, PE SIGNING & DELINEATION REGIONAL ENGINEER

MITCH EATON SIGNING & DELINEATION PROJECT DESIGN ENGINEER

5/2013

TIP NO. R-2633BB	SHEET NO. SIGN-1A
APPROVED: 	
DATE: 6/18/13	
SEAL	
	

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
901.10	TYPE 'A' SIGNS
901.20	TYPE 'B' SIGNS
901.50	ARROWS AND SHIELDS
901.70	SIGN STRINGERS AND SUPPORT SPACING
901.80	SIGN MOUNTING DETAILS - FOR TYPE A AND TYPE B SIGNS
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING
904.30	SUPPLEMENTAL SIGN MOUNTING
904.40	MILEPOST AND PLACEMENT
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

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.
- . 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 C REFLECTIVE SHEETING.
- . 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.

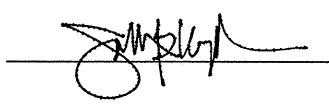
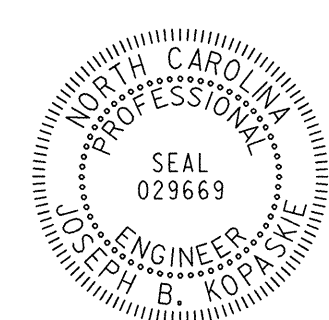
SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	35	C.Y.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	1	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	6877	LB.
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM	15928	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	493	L.F.
4078000000	903	SUPPORTS, 2 LB STEEL U-CHANNEL	25	EA.
4096000000	904	SIGN ERECTION, TYPE D	1	EA.
4102000000	904	SIGN ERECTION, TYPE E	12	EA.
4108000000	904	SIGN ERECTION, TYPE F	7	EA.
4109000000	904	SIGN ERECTION, TYPE A (OVERHEAD)	3	EA.
4109000000	904	SIGN ERECTION, TYPE B (OVERHEAD)	2	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	12	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	9	EA.
4114000000	904	SIGN ERECTION, MILEMARKERS	25	EA.
4115000000	904	SIGN ERECTION, OVERLAY (OVERHEAD)	1	EA.
4116000000	904	SIGN ERECTION, OVERLAY (GROUND MOUNTED)	9	EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	5	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	5	EA.
4234000000	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)	7	EA.

PROJECT NOTES

1. DISPOSAL SIGN SYSTEM, STEEL BEAM
2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
3. DISPOSAL OF SIGN, A OR B (OVERHEAD)

SYSTEM: \$\$\$\$
 USER: \$\$\$\$
 DATE: \$\$\$\$
 TIME: \$\$\$\$
 \$\$\$\$

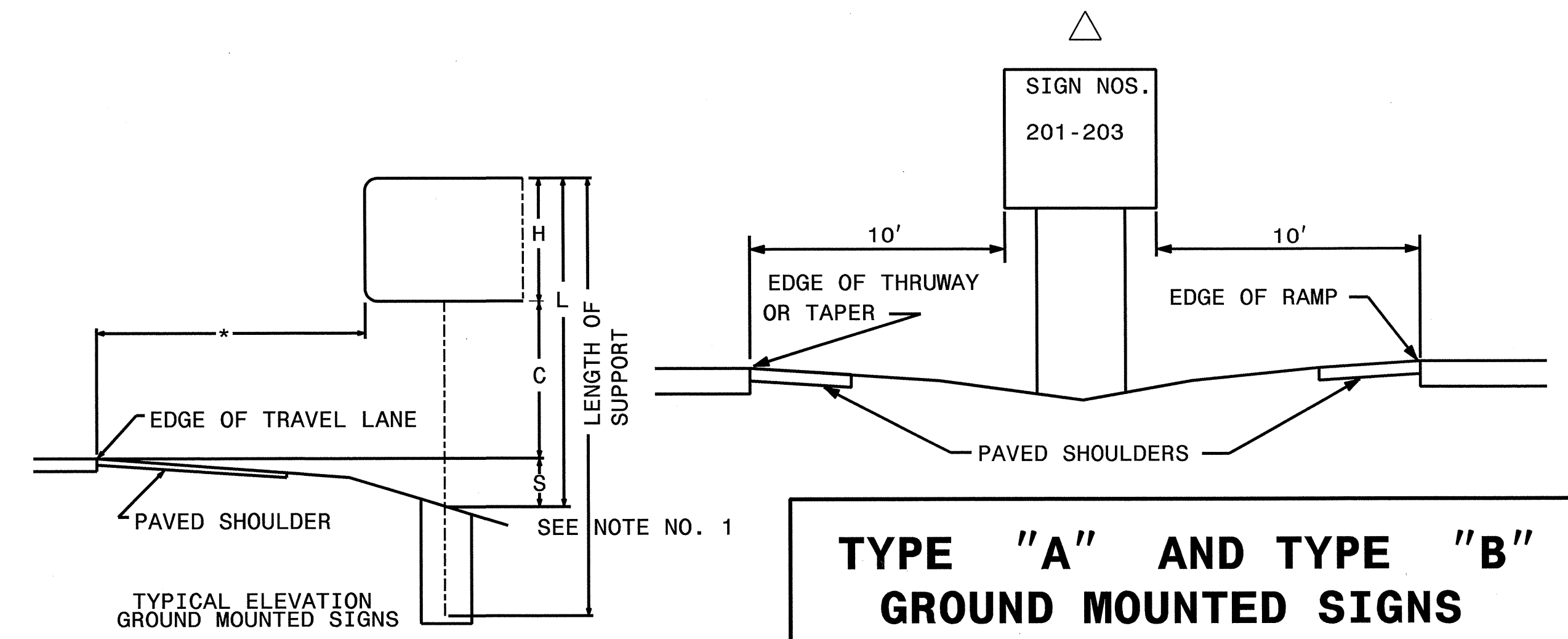
TIP NO. R-2633BB	SHEET NO. SIGN-2A
APPROVED: 	
DATE: 5/3/13	
SEAL	
	

SIGN NO.	SIGN TYPE	SIGN SIZE (in.) w x h	ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (ft.)	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			FOOTING DIAMETER (ft.)	FOOTING DEPTH (ft.)	B/A SUPPORT WEIGHTS (lbs.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REINF. FTGS. (c.y.)	PLAIN FTGS. (c.y.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
										SNS HT H	MTG HT C	EMBEDMENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH							
101A	B	114 X 30																										
101B	A	228 X 150	312+63.44 -LREV-	3	W18x40	S	1-R	N/A	18.00	12.50	7.00	6.5	2.54	22.04	28.54	4.79	24.29	30.79	7.04	26.54	33.04	3	7	0.00	3694.80	5.50	0.00	
102	B	132 X 48	STA. 396+00-L-	2	W6x12	S	N/A	N/A	18.00	4.00	7.00	4.5	2.37	13.37	17.87	0.00	0.00	0.00	4.52	15.52	20.02	1.5	5	0.00	454.68	0.65	0.00	
103A	B	114 X 30																										
103B	A	228 X 150	389+84.58-L-	3	W18x40	S	1-R	N/A	18.00	12.50	7.00	7	2.53	22.03	29.03	4.78	24.28	31.28	7.03	26.53	33.53	3	7.5	0.00	3753.60	5.89	0.00	
104A	B	114 X 30																										
104B	A	228 X 162	431+43.44-L-	3	W18x40	S	1-R	N/A	18.00	13.50	7.00	6.5	2.53	23.03	29.53	4.78	25.28	31.78	7.03	27.53	34.03	3	7	0.00	3813.60	5.50	0.00	
105	B	138 X 18	SBE PLANS	2	W6x9	BA	N/A	N/A	18.00	1.50	7.00	3.5	8.85	17.35	20.85	0.00	0.00	0.00	8.86	17.36	20.86	1.5	4	438.51	0.00	0.52	0.00	
106	A	168 X 156	STA. 13+08.36Y1-	2	W14x30	BA	N/A	N/A	30.00	13.00	7.00	6	2.80	22.80	28.80	0.00	0.00	0.00	3.50	23.50	29.50	3	6.5	2233.99	0.00	3.40	0.00	
107	A	168 X 156	STA 12+35-Y1-	2	W10x26	BA	N/A	N/A	30.00	13.00	7.00	6	2.54	22.54	28.54	0.00	0.00	0.00	2.02	22.02	28.02	2.5	6.5	1758.70	0.00	2.36	0.00	
111A	B	114 X 30																										
111B	A	228 X 150	STA. 54+20	3	W14x30	S	1-R	N/A	18.00	12.50	7.00	6	4.10	23.60	29.60	4.10	23.60	29.60	4.10	23.60	29.60	3	6.5	0.00	2664.00	5.11	0.00	
112A	B	114 X 30																										
112B	A	138 X 66	394+39.83-L- LEFT	2	W8x18	S	1-R	N/A	18.00	5.50	7.00	5.5	2.37	14.87	20.37	0.00	0.00	0.00	4.52	17.02	22.52	2	6	0.00	772.02	1.40	0.00	
113A	B	114 X 30																										
113B	A	138 X 66	STA. 315+19.01 -L-	2	W8x18	S	1-R	N/A	18.00	5.50	7.00	5.5	2.41	14.91	20.41	0.00	0.00	0.00	4.66	17.16	22.66	2	6	0.00	775.26	1.40	0.00	
114A	B	114 X 30																										
114B	A	138 X 84	STA. 301+99.01 -L-	3	W6x16	BA	1-R	N/A	18.00	7.00	7.00	5.5	2.90	16.90	22.40	4.02	18.02	23.52	5.12	19.12	24.62	1.5	6	1327.21	0.00	1.18	0.00	
201	A	78 X 60	438+73.08-L-	2	W6x9	BA	N/A	N/A	△	5.00	7.00	4	3.28	15.28	19.28	0.00	0.00	0.00	3.28	15.28	19.28	1.5	4.5	410.16	0.00	0.59	0.00	
202	A	78 X 60	20+00 (metric sta.)	2	W6x9	BA	N/A	N/A	△	5.00	7.00	4	3.28	15.28	19.28	0.00	0.00	0.00	3.28	15.28	19.28	1.5	4.5	410.16	0.00	0.59	0.00	
203	A	78 X 60	288+03.16-L-	2	S4x7.7	BA	N/A	N/A	△	5.00	7.00	4	0.49	12.49	16.49	0.00	0.00	0.00	0.89	12.89	16.89	1	4.5	297.60	0.00	0.00	0.26	

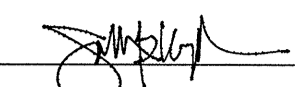
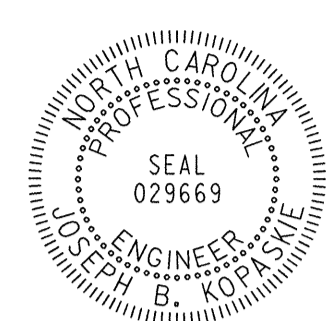
TOTAL 6876.34 TOTAL 15927.96 TOTAL 34.08 TOTAL 0.26

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.
- IF THE GROUNDWATER IS ENCOUNTERED AT AN DEPTH SHALLOWER THAN 7 FEET, 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.



11/20/12 10:52 AM C:\Users\jtopack\Documents\2013\2013-2633BB\SIGN-2A.dwg

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-2B
APPROVED: 	
DATE: 5/3/13	
SEAL	
	

NOTES:

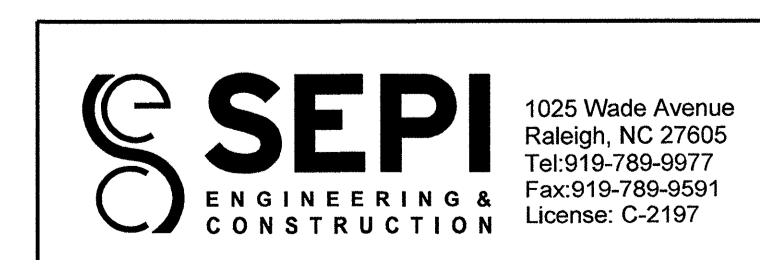
1. DESIGN CONFORMS WITH THE SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS - A.A.S.H.T.O.
2. USE MATERIALS, FABRICATE AND ERECT SIGNS AND SUPPORTS THAT CONFORM TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
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 SO AS TO INSURE NO LOSS OF STRENGTH. 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 (LB. FT.)
1/2"	9
5/8"	22
3/8"	37
1"	48

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 TWO FEET INTO THE ROCK. CONSTRUCT ALL FOOTINGS OF CLASS A CONCRETE.
9. FORM TOP 6" OF FOOTINGS. ENGINEER APPROVES THE METHOD USED.
10. THE FINAL FLAT TURN OF SPIRAL OR HOOPS NO. 3 OR LARGER PLACED 3" 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 7 FEET, 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.

CONSTRUCTION



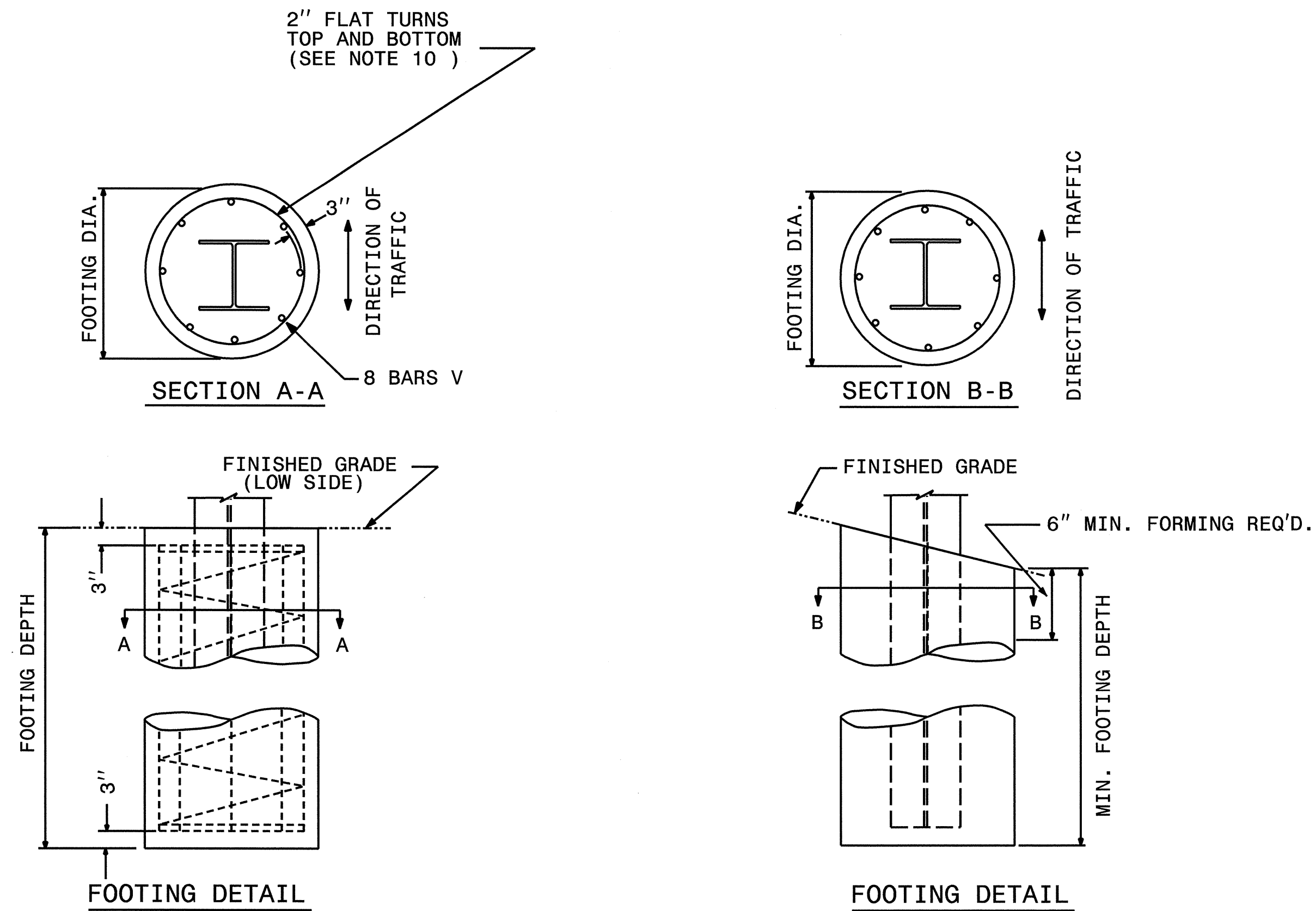
PROPOSED SIGNS
SIGN MOUNTING DETAILS

8/17/99

REVISIONS

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-2C
APPROVED:	
DATE: 5/3/13	
SEAL	

BEAM SHAPE	BOLT SIZE	SLIP BASE PLATE DATA								KEEPER PLATE DATA							HINGE CONNECTION DATA							BREAK AWAY SUPPORT WEIGHT CONSTANT LBS.		
		A ₁	B ₁	C ₁	D ₁	E ₁	T ₁	R ₁	A ₂	B ₂	C ₂	D ₂	E ₂	R ₂	T ₂	BOLT SIZE	F	G	H	I	J	K	L		R ₃	T ₃
S3X5.7	1/2"DIA. X 3"	7"	4"	1"	3/4"	2 1/2"	1"	9/32"	7"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2"DIA. X 1 1/4"	2 1/4"	3 1/2"	4"	1/2"	1"	1/2"	2"	9/32"	3/8"	18
S4X7.7	1/2"DIA. X 3"	8"	4"	1"	3/4"	2 1/2"	1"	9/32"	8"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2"DIA. X 1 1/4"	2 5/8"	3 1/2"	4"	1/2"	1"	1/2"	2"	9/32"	3/8"	20
W6X9	1/2"DIA. X 3"	10"	5"	1"	3/4"	3 1/2"	1"	9/32"	10"	5"	1"	3/4"	3 1/2"	9/32"	28 GAUGE	1/2"DIA. X 1 1/4"	4"	3 1/2"	4"	3/4"	1"	1/2"	2"	9/32"	3/8"	32
W6X12	5/8"DIA. X 3 3/4"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/4"	1 1/32"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/32"	28 GAUGE	5/8"DIA. X 2 1/4"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	1 1/32"	3/8"	39
W6X16	5/8"DIA. X 3 3/4"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/2"	1 1/32"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/32"	28 GAUGE	5/8"DIA. X 2 1/2"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	1 1/32"	1/2"	47
W8X18	5/8"DIA. X 4 1/4"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	1 1/2"	1 1/32"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	1 1/32"	28 GAUGE	5/8"DIA. X 2 1/2"	5 1/4"	4"	4 1/2"	1"	1 1/8"	5/8"	2 1/4"	1 1/32"	1/2"	70
W8X21	3/4"DIA. X 4 1/4"	14"	7"	1 1/2"	1"	5"	1 1/2"	1 3/32"	14"	7"	1 1/2"	1"	5"	1 3/32"	28 GAUGE	3/4"DIA. X 2 3/4"	5 1/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	1/2"	73
W10X22	3/4"DIA. X 4 1/4"	16"	8"	1 1/2"	1"	6"	1 1/2"	1 3/32"	16"	8"	1 1/2"	1"	6"	1 3/32"	28 GAUGE	3/4"DIA. X 2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	1/2"	119
W10X26	3/4"DIA. X 4 3/4"	16 1/2"	8"	1 1/2"	1"	6"	1 3/4"	1 3/32"	16 1/2"	8"	1 1/2"	1"	6"	1 3/32"	28 GAUGE	3/4"DIA. X 2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	5/8"	140
W12X26	3/4"DIA. X 4 3/4"	18 1/2"	9"	1 1/2"	1"	7"	1 3/4"	1 3/32"	18 1/2"	9"	1 1/2"	1"	7"	1 3/32"	28 GAUGE	3/4"DIA. X 2 3/4"	6 1/2"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	5/8"	176
W14X30	1"DIA. X 5"	22"	9"	2"	1 1/2"	6"	2"	1 7/32"	22"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3"	6 3/4"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	5/8"	205
W16X31	1"DIA. X 5"	24"	9"	2"	1 1/2"	6"	2"	1 7/32"	24"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3 1/4"	5 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	3/4"	223
W18X35	1"DIA. X 5"	25"	9"	2"	1 1/2"	6"	2"	1 7/32"	25"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3 1/4"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	3/4"	243
W18X40	1"DIA. X 5 1/2"	26"	9"	2"	1 1/2"	6"	2 1/4"	1 7/32"	26"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3 3/4"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	7/8"	278
W21X44	1"DIA. X 5 1/2"	29"	9"	2"	1 1/2"	6"	2 1/2"	1 7/32"	29"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3 3/4"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	7/8"	310



FOUNDATION DATA *		
FOOTING DIAMETER	REINFORCEMENT	SPIRAL BAR
1' 6"	8 # 6 BARS	#3 BAR, 3" PITCH
2'	8 # 7 BARS	#3 BAR, 3" PITCH
2' 6"	8 # 9 BARS	#3 BAR, 3" PITCH
3'	8 # 11 BARS	#3 BAR, 3" PITCH
3' 6"	8 # 12 BARS	#3 BAR, 3" PITCH
4'	8 # 14 BARS	#3 BAR, 3" PITCH

* FOUNDATION DIMENSIONS ARE SHOWN IN PLANS SEE SHEET SIGN-2B FOR NOTES.

SEPI ENGINEERING & CONSTRUCTION

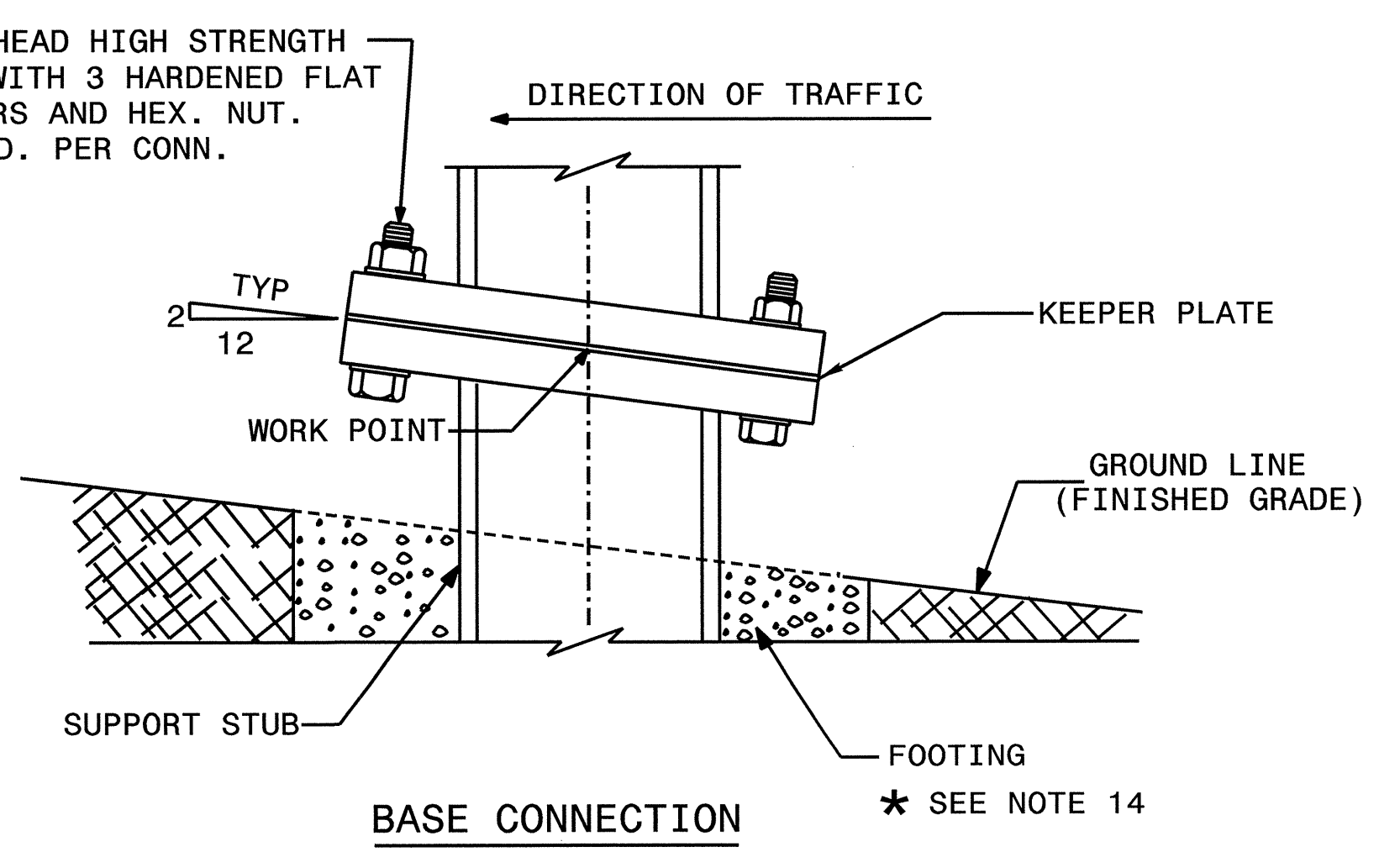
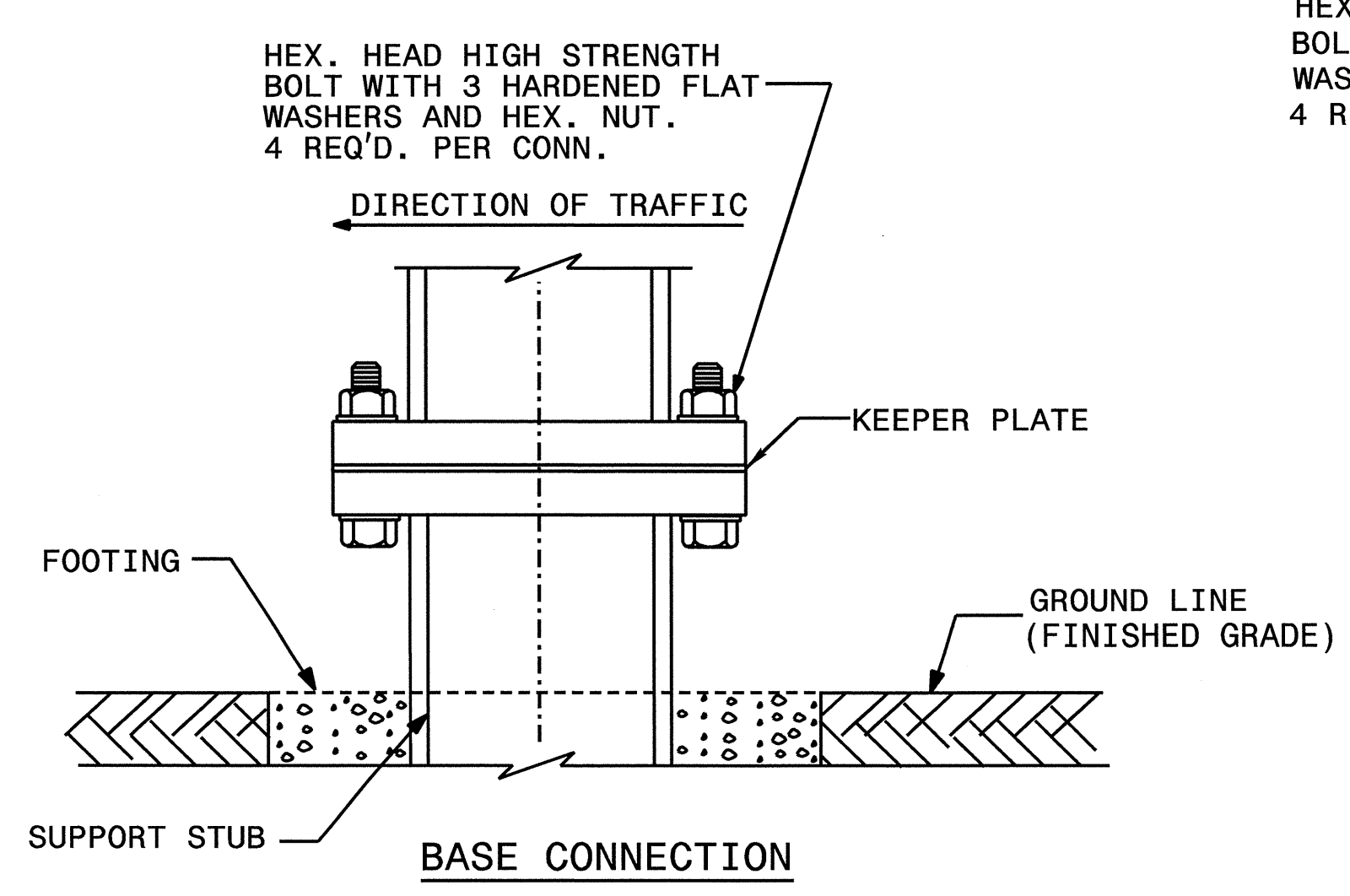
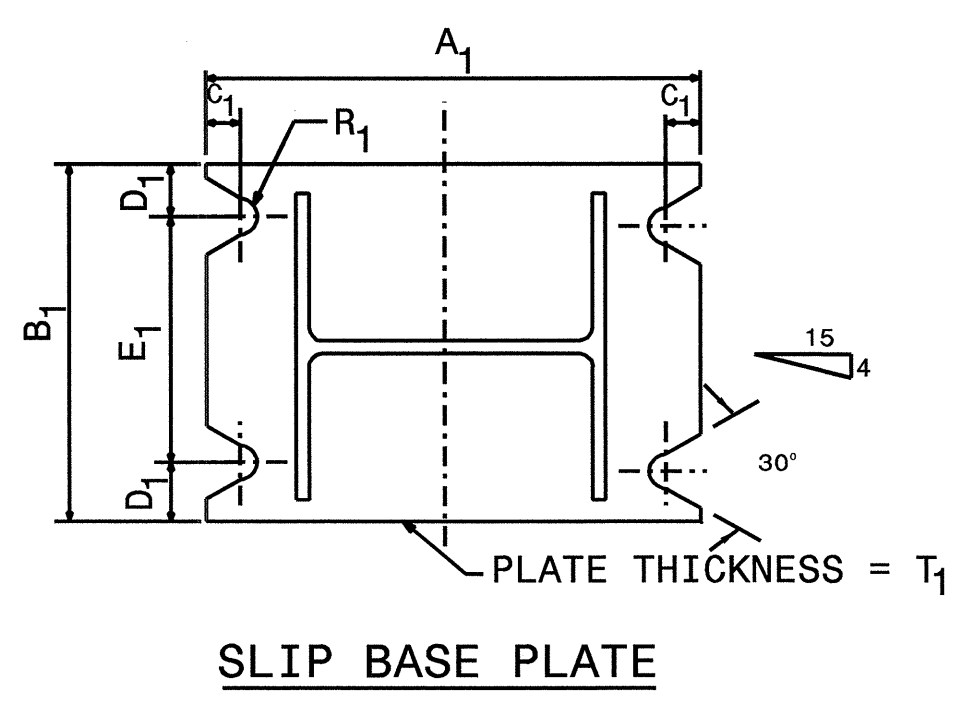
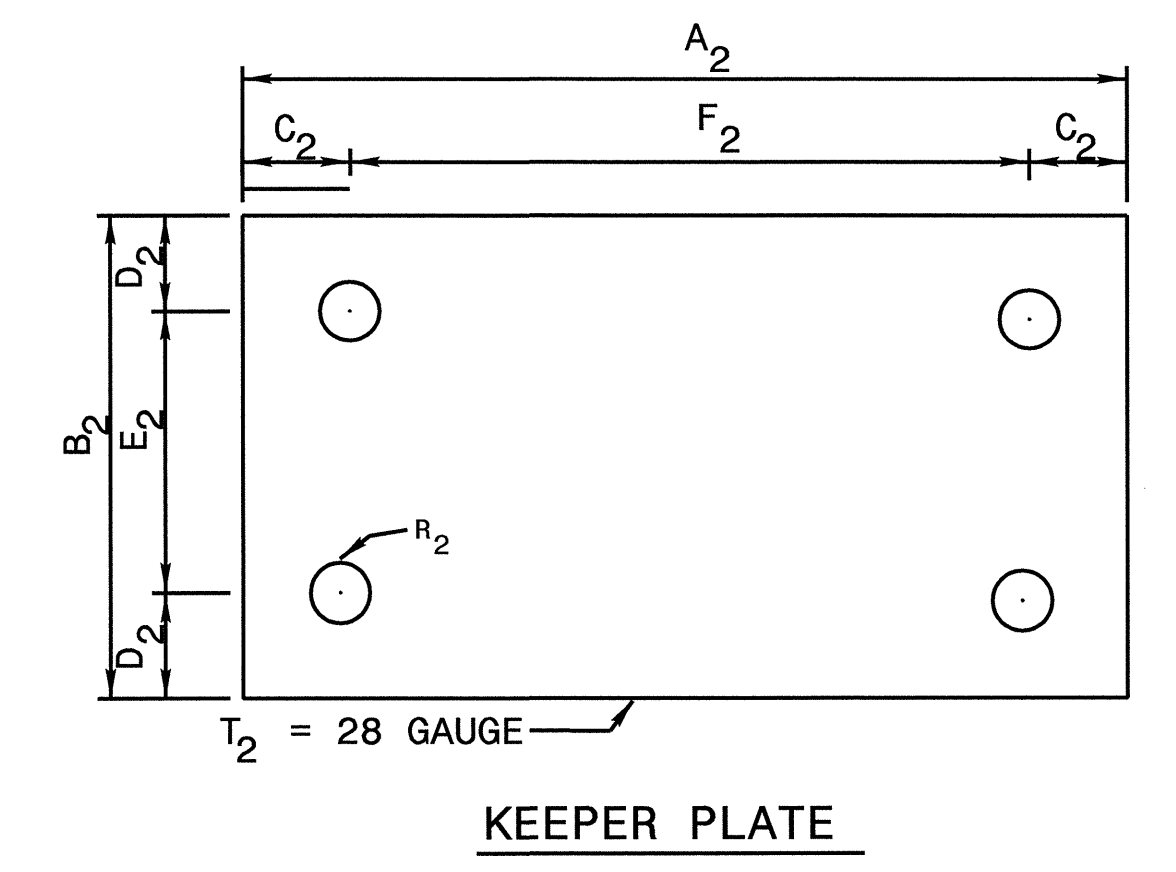
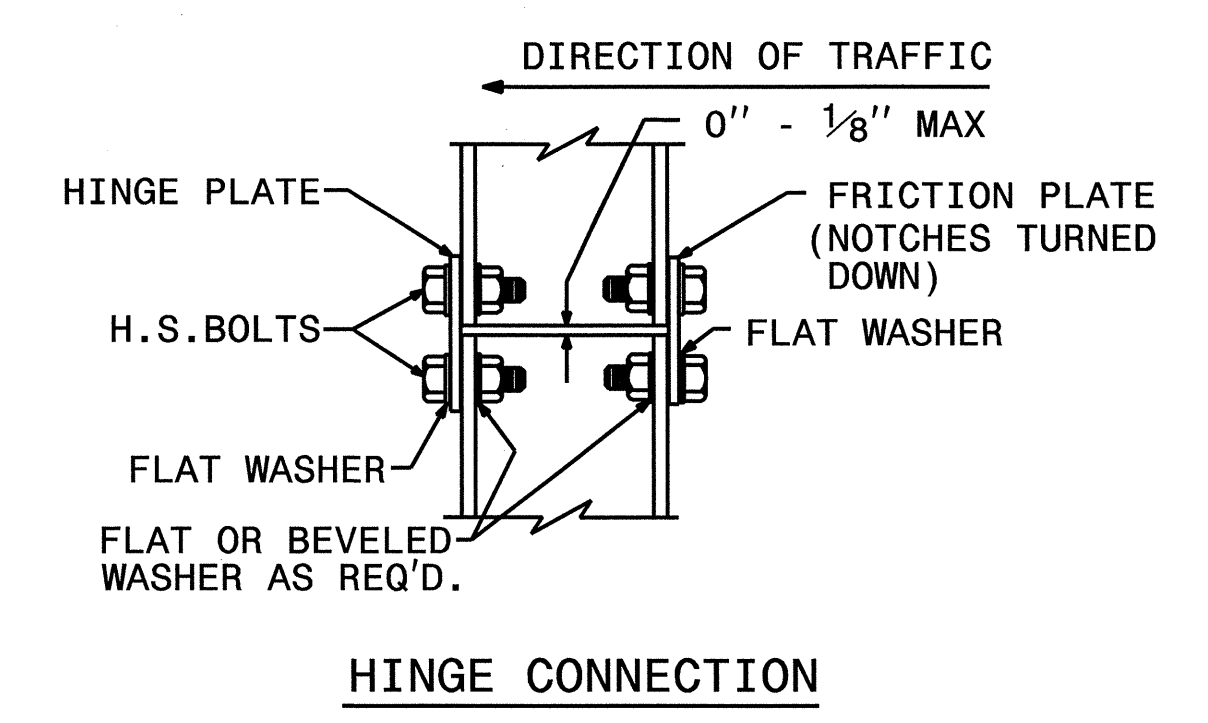
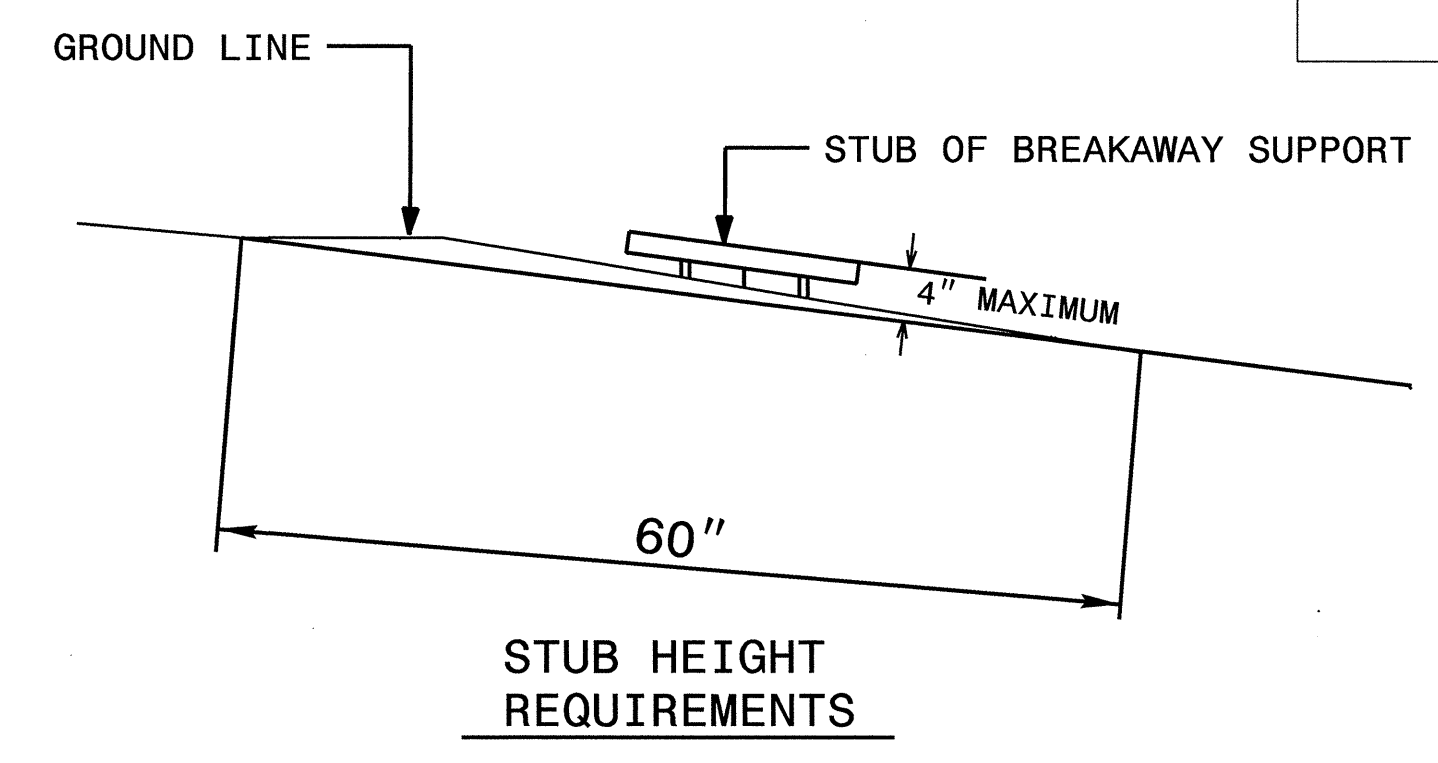
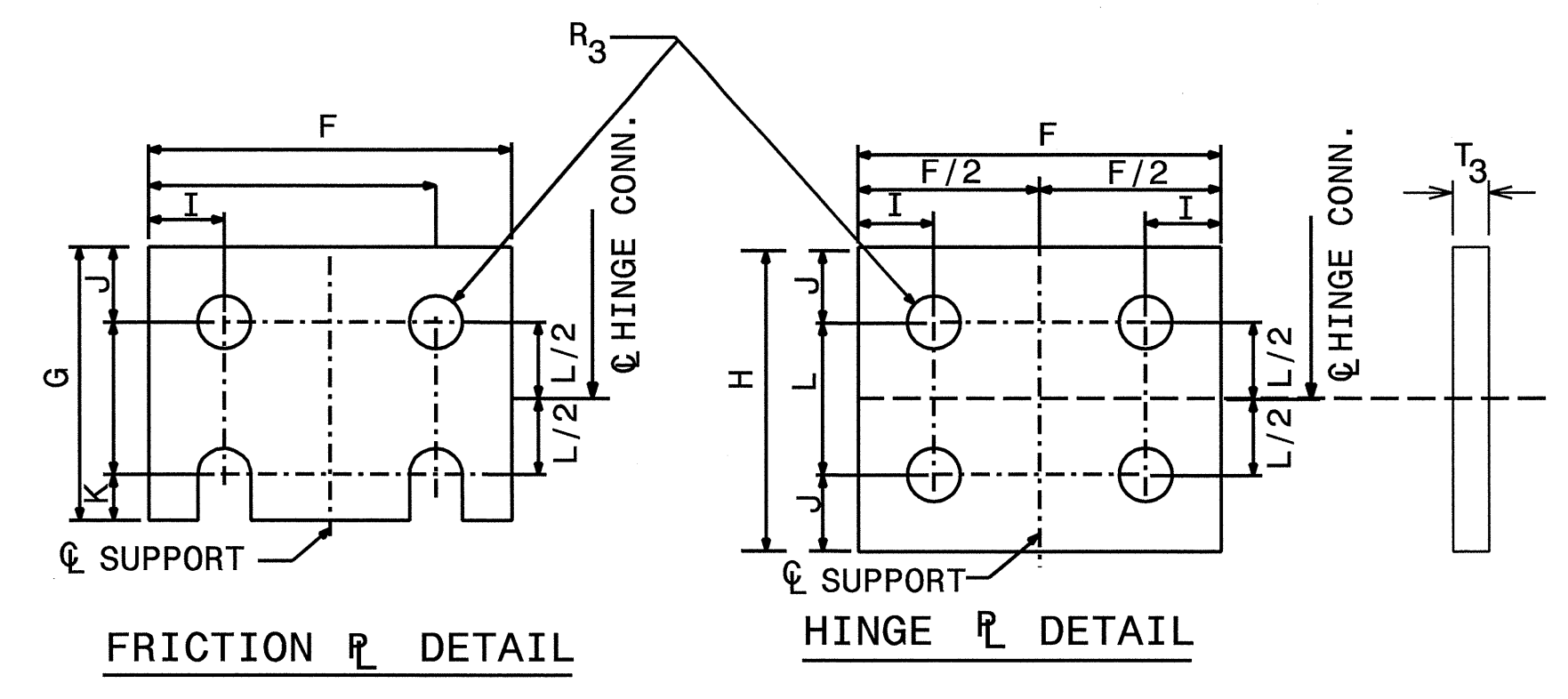
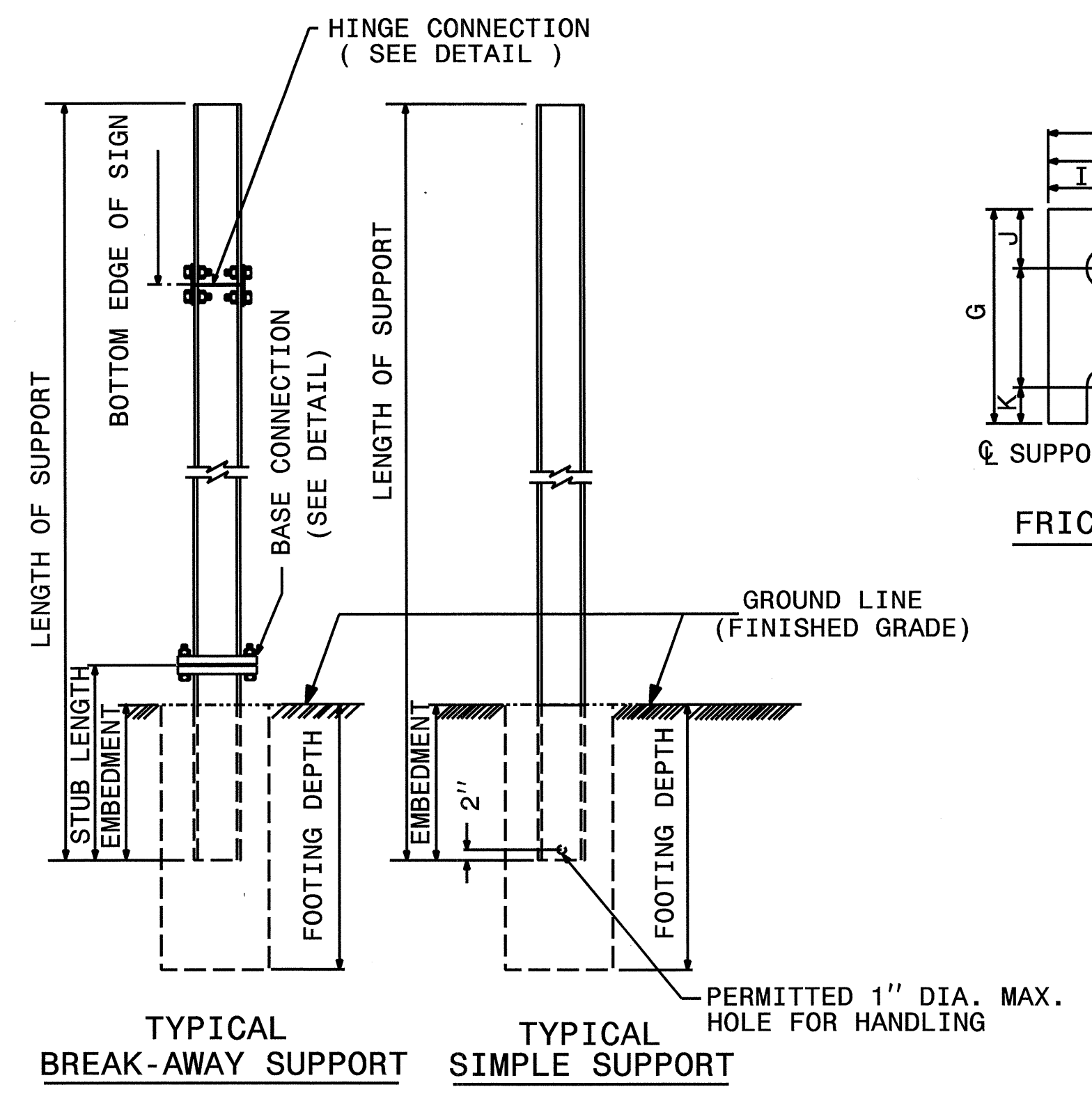
1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9577
Fax: 919-789-9591
License: C-2197

PROPOSED SIGNS

SIGN MOUNTING DETAILS

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-2D
APPROVED:	
DATE: 5/3/13	
SEAL	

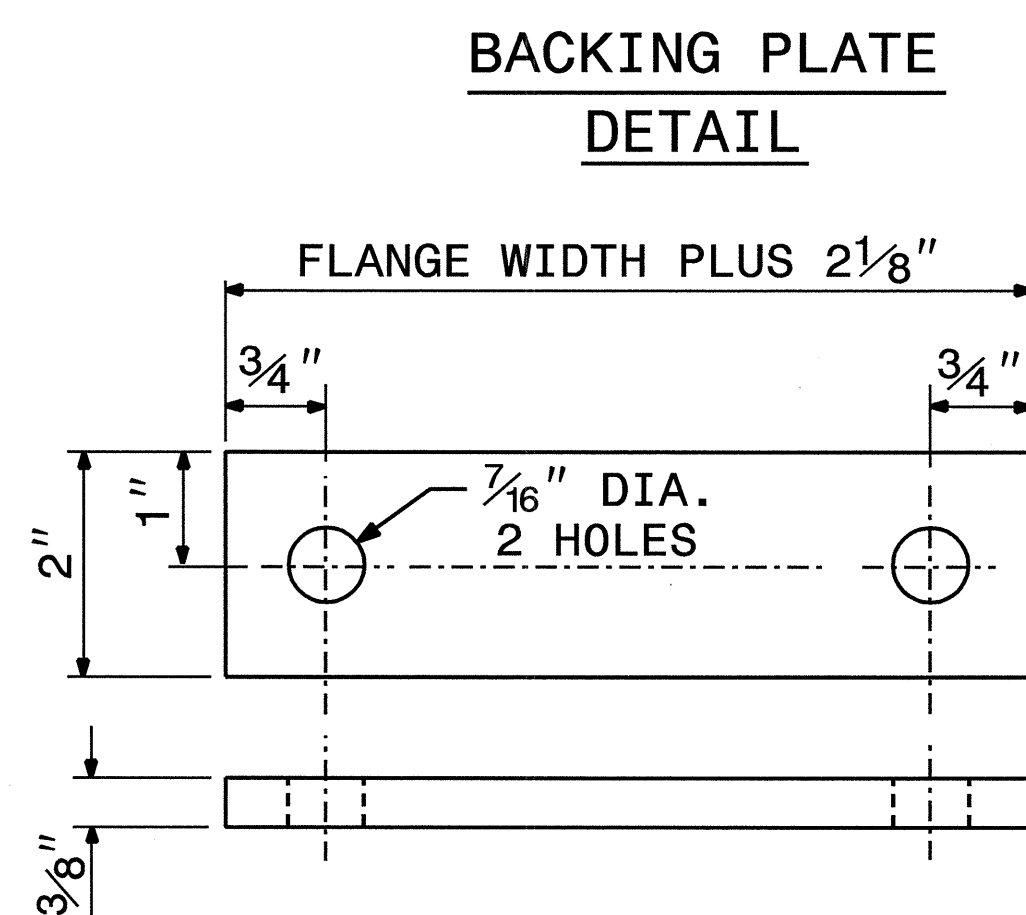
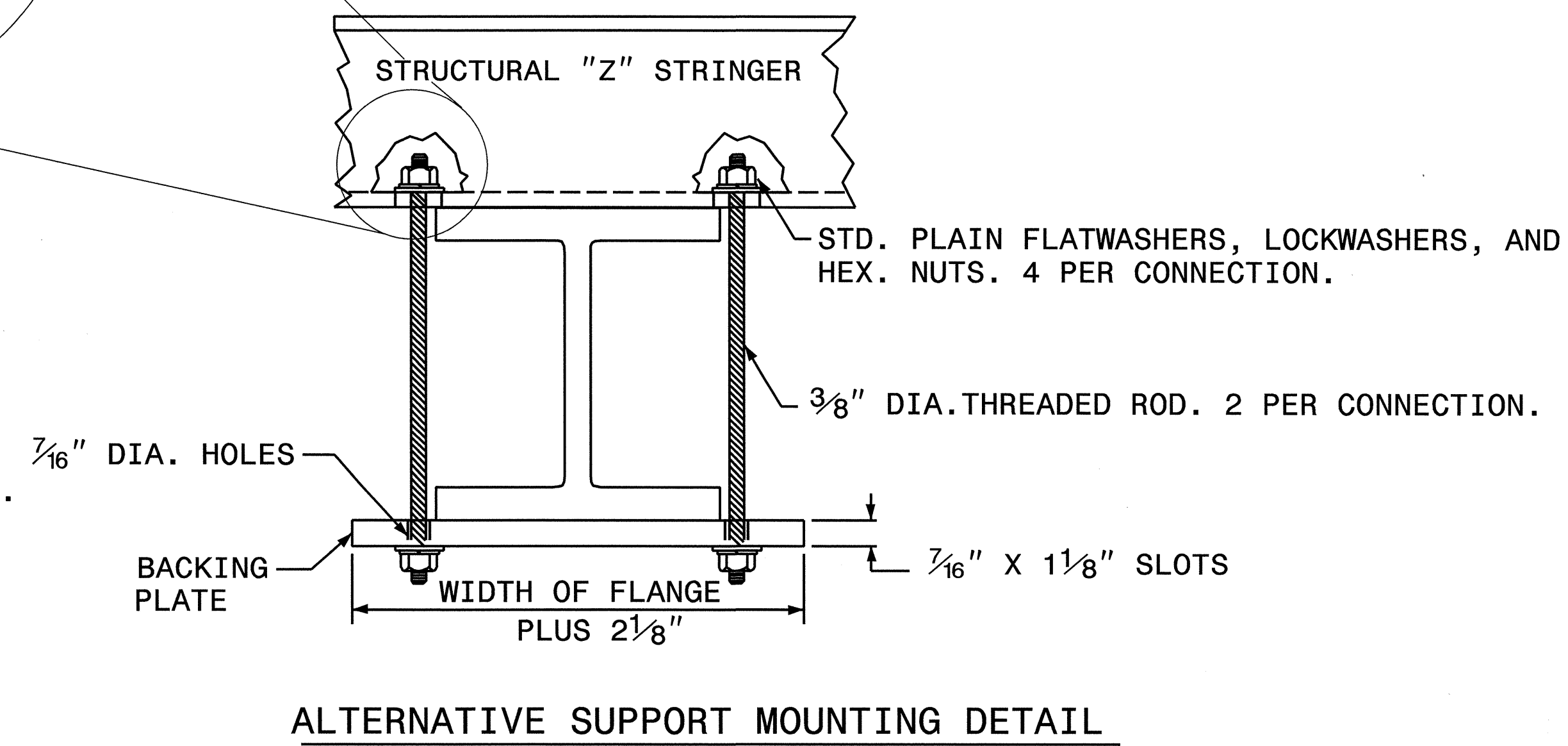
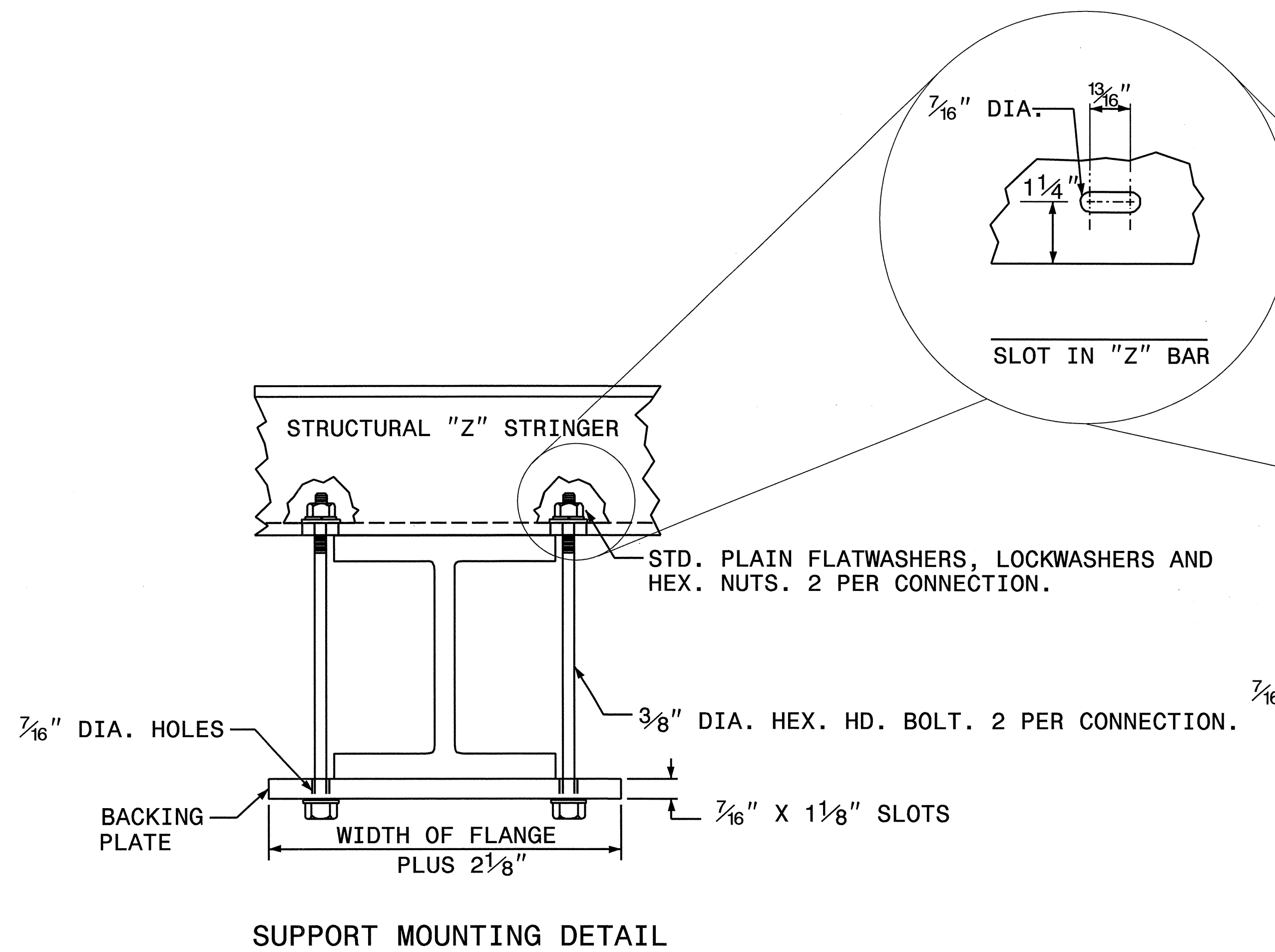
REVISIONS
 8/17/99
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SEE SHEET SIGN-2C FOR DIMENSIONS.
SEE SHEET SIGN-2B FOR NOTES.

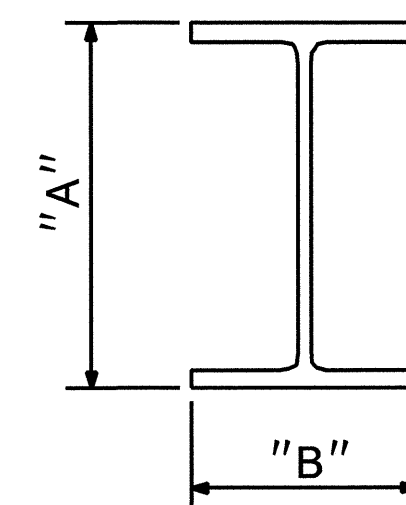
PROPOSED SIGNS
SIGN MOUNTING DETAILS

REVISIONS



1. THE SUPPORT MOUNTING DETAIL SHOWS A "W" OR "S" BEAM. THIS DETAIL IS ALSO USED FOR MOUNTING SIGNS TO WOOD OR SQUARE TUBE SUPPORTS.
2. USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS IN ACCORDANCE WITH ASTM A123.
3. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR TYPE OF MATERIAL TO BE USED FOR SIGN HANGER ASSEMBLIES AND SUPPORTS.
4. USE GALVANIZED STEEL FOR MOUNTING BOTS AND THREADED RODS IN COMPLIANCE WITH ASTM A307 AND ASTM A153.

SIGN SUPPORTS SECTION DIMENSIONS



SECTION	A	B
S3 X 5.7	3"	2 3/8"
S4 X 7.7	4"	2 5/8"
W6 X 9	6"	4"
W6 X 12	6"	4"
W6 X 16	6 1/4"	4"
W8 X 18	8 1/8"	5 1/4"
W8 X 21	8 1/4"	5 1/4"
W10 X 22	10 1/8"	5 3/4"
W10 X 26	10 3/8"	5 3/4"
W12 X 26	12 1/4"	6 1/2"
W14 X 30	13 7/8"	6 3/4"
W16 X 31	15 7/8"	5 1/2"
W18 X 35	17 3/4"	6"
W18 X 40	17 7/8"	6"
W21 X 44	20 5/8"	6 1/2"

C:\PROJECTS\2013\CONSTRUCTION\DRAWINGS\

5/14/99

501

2-30" x 15"
1-45" x 36"
1-36" x 36"

TWO "U" POSTS

506

1-24" x 12"
1-24" x 24"

ONE "U" POSTS

502

2-24" x 12"
2-30" x 24"
2-21" x 15"

TWO "U" POSTS

507

2-30" x 15"
1-36" x 36"
1-45" x 36"

TWO "U" POSTS

503

1-24" x 12"
1-24" x 24"
1-21" x 15"

ONE "U" POSTS

Blank sign area

504

1-24" x 12"
1-24" x 24"
1-21" x 15"

ONE "U" POSTS

Blank sign area

505

1-24" x 12"
1-24" x 24"

ONE "U" POSTS

Blank sign area

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-3A
APPROVED:	
DATE: 5/3/13	
SEAL	

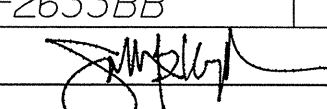
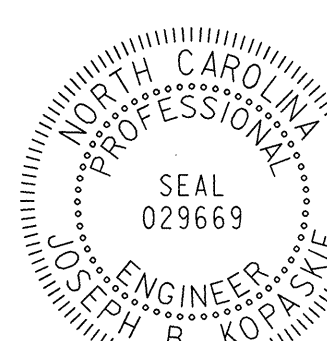
SEPI
ENGINEERING & CONSTRUCTION

1025 Wade Avenue
Raleigh, NC 27605
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Fax: 919-785-9501
License: C-2197

TYPE "F" SIGNS

SYTIME DDD ON CONSTRUCTION

5/14/99

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-3B
APPROVED: 	
DATE: 5/3/13	
SEAL 	

QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

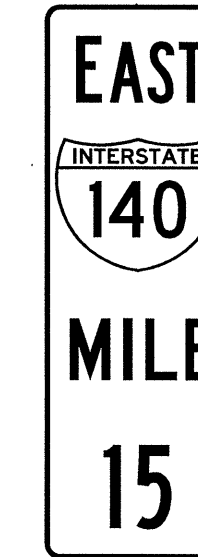
QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-4
54" X 18"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

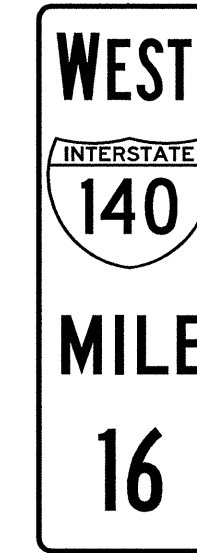
QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

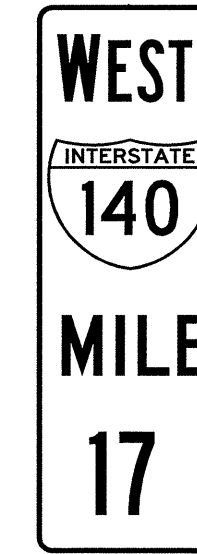
QUANTITY REQ'D 1



D10-4
18" X 54"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-5
18" X 54"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-5
18" X 60"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-5
18" X 60"

ONE "U" POST PER SIGN

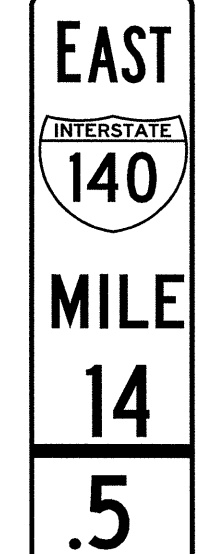
QUANTITY REQ'D 1



D10-5
18" X 60"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-5
18" X 60"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-5
18" X 60"

ONE "U" POST PER SIGN

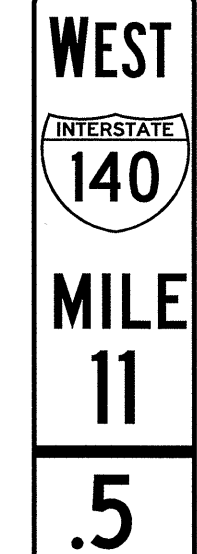
QUANTITY REQ'D 1



D10-5
18" X 60"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-5
18" X 60"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-5
18" X 60"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-5
18" X 60"

ONE "U" POST PER SIGN

QUANTITY REQ'D 1



D10-5
18" X 60"

ONE "U" POST PER SIGN


QUANTITY REQ'D 1



D10-5
18" X 60"

ONE "U" POST PER SIGN

STIMES COMPANY



1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

**SIGNS DESIGNS
MILE MARKERS**

5/14/99
SYNTHETIC
LUMINOUS
SIGNAGE

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-4
APPROVED:	
DATE: 5/3/13	
SEAL 	

SIGN NUMBER: 1B BACKG COLOR: Green
TYPE: A COPY COLOR: White

QUANTITY: 1

SYMBOL	X	Y	WID	HT
M1_4	91.5	96.6	45	36

SIGN WIDTH: 228"
HEIGHT: 150"
TOTAL AREA: 237.5 Sq. Feet

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"

NO. Z BARS: 4 MAT'L: 0.125" (3.2 mm) ALUMINUM
LENGTH: 220.0

DESIGN BY: R DRAYTON CHECKED BY: J KOPASKIE
PROJECT ID: R-2633BB DIV: DIV DATE: Mar 12, 2013

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter locations are panel edge to lower left corner										Series/Size	Text Length		
C	l	i	n	t	o	n					EM 2000	90.4	
68.8	86.24	95.84	105.44	120.8	132.8	148.64							
C	a	r	o	l	i	n	a	B	e	a	c	h	EM 2000
17.92	33.92	50.88	61.28	77.12	86.72	96.32	111.84	122.4	138.4	154.4	168.48	184	199.52
1	M	I	L	E								E 2000	45.1
91.45	103.45	115.45	127.45	139.45									

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 1A & 3A BACKG COLOR: Green
TYPE: B COPY COLOR: White

QUANTITY: 2

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 102"
HEIGHT: 30"
TOTAL AREA: 21.3 Sq. Feet

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 4"

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R DRAYTON CHECKED BY: J KOPASKIE
PROJECT ID: R-2633BB DIV: 3 DATE: Apr 19, 2013

USE NOTES:

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter locations are panel edge to lower left corner										Series/Size	Text Length
E	X	I	T	1	4					E 2000	66.75
17.62	26.52	37.22	40.72	53.22	70.27						

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 2 BACKG COLOR: Green
TYPE: A COPY COLOR: White

QUANTITY: 1

SYMBOL	X	Y	WID	HT
M1_1	100.67	30.89	45	36
M1_4	177.33	30.89	36	36
ARDOWN	75.07	12.92	32	21.96
ARDOWN	216.93	12.91	32	21.96

SIGN WIDTH: 324"
HEIGHT: 210"
TOTAL AREA: 472.5 Sq. Feet

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"

NO. Z BARS: 6 MAT'L: 0.125" (3.2 mm) ALUMINUM
LENGTH: 316.0

DESIGN BY: R DRAYTON CHECKED BY: J KOPASKIE
PROJECT ID: ID DIV: DIV DATE: Mar 12, 2013

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter locations are panel edge to lower left corner										Series/Size	Text Length							
W	E	S	T							E 2000	48.78							
98.78	116.84	127.52	138.56															
S	O	U	T	H						E 2000	59.76							
165.45	179.85	192.69	204.45	215.49														
B	r	u	n	s	w	i	c	k	C	o	B	e	a	c	h	e	s	EM 2000
16.88	34.32	46.16	53.12	78.32	92.08	113.04	121.36	173.28	183.28	189.28	190.12	206.12	222.12	236.24	251.72	267.28	282.82	296.56
S	h	a	l	l	o	t	t	e										EM 2000
103.6	121.52	137.04	154	163.6	171.76	186	197.84	209.84										
M	y	r	t	l	e	B	e	a	c	h								EM 2000
78.56	97.12	115.36	125.6	139.04	147.2	157.76	173.76	189.76	203.84	219.34	288							

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 3B BACKG COLOR: Green
TYPE: A COPY COLOR: White

QUANTITY: 1

SYMBOL	X	Y	WID	HT
M1_4	90.7	70	45	36
AR_Type A	225.29	22.2	22.25	35.04

SIGN WIDTH: 270"
HEIGHT: 120"
TOTAL AREA: 225.0 Sq. Feet

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"

NO. Z BARS: 3 MAT'L: 0.125" (3.2 mm) ALUMINUM
LENGTH: 262.0

DESIGN BY: R DRAYTON CHECKED BY: J KOPASKIE
PROJECT ID: R-2633BB DIV: 3 DATE: Mar 11, 2013

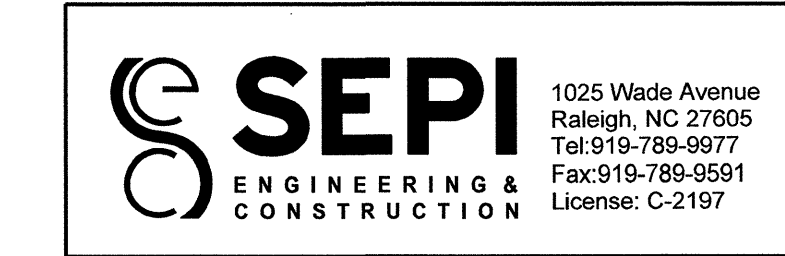
USE NOTES: 1,2,3,4

- 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.

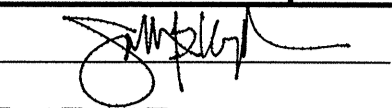

LETTER POSITIONS

Letter locations are panel edge to lower left corner										Series/Size	Text Length		
C	l	i	n	t	o	n				EM 2000	90.4		
68	85.44	95.04	104.64	120	132	147.84							
C	a	r	o	l	i	n	a	B	e	a	c	h	EM 2000
17.12	33.12	50.08	60.48	76.32	85.92	95.52	111.04	121.6	137.6	153.6	167.68	183.2	198.72

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL



TYPE "A" & "B" OVERHEAD SIGN DESIGNS

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-4A
APPROVED: 	
DATE: 5/3/13	
SEAL 	

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

QUANTITY: 1

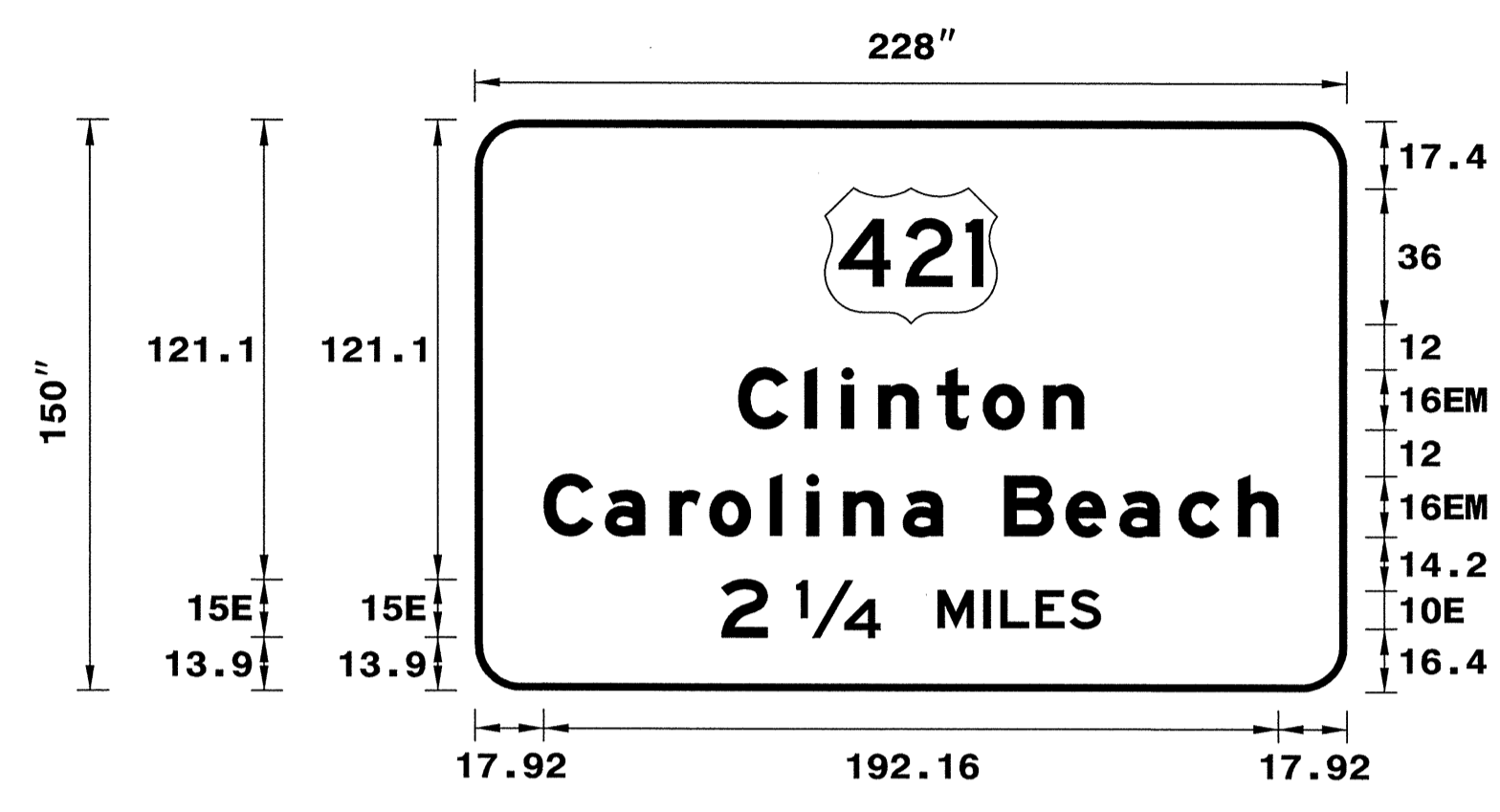
SYMBOL	X	Y	WID	HT
M1_4	91.5	96.6	45	36

SIGN WIDTH: 228"
HEIGHT: 150"
TOTAL AREA: 237.5 Sq. Feet

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"

NO. Z BARS: 4 **MAT'L:** 0.125" (3.2 mm) ALUMINUM
LENGTH: 220.0

DESIGN BY: R DRAYTON **CHECKED BY:** J KOPASKIE
PROJECT ID: R-2633BB **DIV:** DIV **DATE:** Mar 12, 2013



USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter	X	Y	WID	HT	Series/Size	Text Length
C	68.8	86.24	95.84	105.44	EM 2000	90.4
l	120.8	86.24	132.81	48.64	EM 2000	192.16
i	17.92	33.92	50.88	61.28	E 2000	99.23
n	77.12	33.92	86.72	96.32	E 2000	99.23
t	11.84	22.4	138.4	154.4	E 2000	99.23
o	154.4	22.4	168.48	184	E 2000	99.23
n	184	199.52	184	199.52	E 2000	99.23
C	68.8	17.92	95.84	105.44	EM 2000	90.4
a	120.8	17.92	132.81	48.64	EM 2000	192.16
r	17.92	17.92	50.88	61.28	E 2000	99.23
o	77.12	17.92	86.72	96.32	E 2000	99.23
l	11.84	17.92	138.4	154.4	E 2000	99.23
i	154.4	17.92	168.48	184	E 2000	99.23
n	184	17.92	184	199.52	E 2000	99.23
a	68.8	64.39	95.84	105.44	EM 2000	90.4
r	120.8	64.39	132.81	48.64	EM 2000	192.16
o	17.92	64.39	50.88	61.28	E 2000	99.23
l	77.12	64.39	86.72	96.32	E 2000	99.23
i	11.84	64.39	138.4	154.4	E 2000	99.23
n	154.4	64.39	168.48	184	E 2000	99.23
a	184	64.39	184	199.52	E 2000	99.23
b	68.8	64.39	95.84	105.44	EM 2000	90.4
e	120.8	64.39	132.81	48.64	EM 2000	192.16
a	17.92	64.39	50.88	61.28	E 2000	99.23
c	77.12	64.39	86.72	96.32	E 2000	99.23
h	11.84	64.39	138.4	154.4	E 2000	99.23
2	154.4	64.39	168.48	184	E 2000	99.23
1/4	184	64.39	184	199.52	E 2000	99.23
M	68.8	64.39	95.84	105.44	EM 2000	90.4
I	120.8	64.39	132.81	48.64	EM 2000	192.16
L	17.92	64.39	50.88	61.28	E 2000	99.23
E	77.12	64.39	86.72	96.32	E 2000	99.23
S	11.84	64.39	138.4	154.4	E 2000	99.23

Spacing Factor is 1 unless specified otherwise

SIGN NUMBER: 102 **BACKG COLOR:** Green
TYPE: B **COPY COLOR:** White

QUANTITY: 1

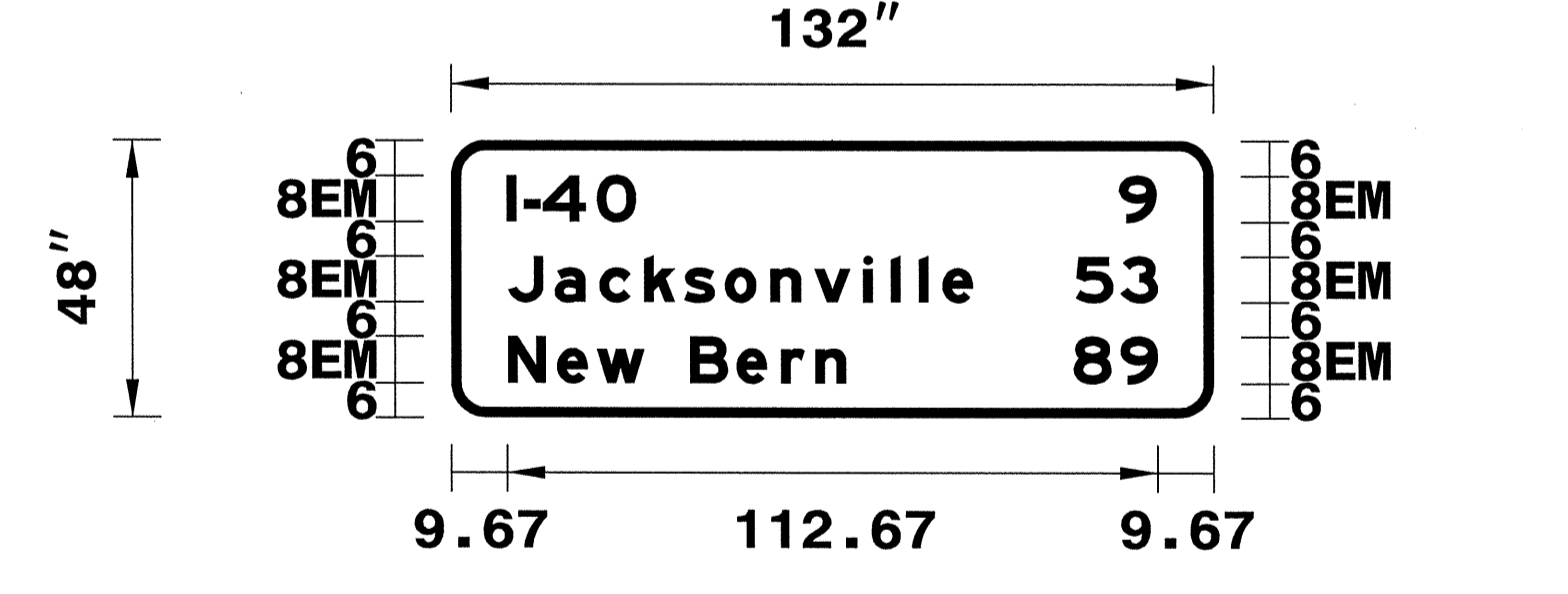
SYMBOL	X	Y	WID	HT
--------	---	---	-----	----

SIGN WIDTH: 132"
HEIGHT: 48"
TOTAL AREA: 44.0 Sq. Feet

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1.75"
RADII: 6"

NO. Z BARS: 2 **MAT'L:** 0.125" (3.2 mm) ALUMINUM
LENGTH: 124.0

DESIGN BY: R DRAYTON **CHECKED BY:** J KOPASKIE
PROJECT ID: R-2633BB **DIV:** 3 **DATE:** Mar 12, 2013



USE NOTES: 1 & 2

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter	X	Y	WID	HT	Series/Size	Text Length
I	9.67	12.63	15.91	25.27	EM 2000	112.5
-	12.63	15.91	25.27	15.69	EM 2000	112.5
4	15.91	15.91	25.27	15.69	EM 2000	112.5
0	18.91	15.91	25.27	15.69	EM 2000	112.5
9	21.91	15.91	25.27	15.69	EM 2000	112.5
J	9.84	17.92	25.68	33.44	EM 2000	112.5
a	17.92	17.92	25.68	33.44	EM 2000	112.5
c	25.68	17.92	25.68	33.44	EM 2000	112.5
k	33.44	17.92	25.68	33.44	EM 2000	112.5
s	41.12	17.92	25.68	33.44	EM 2000	112.5
o	48.8	17.92	25.68	33.44	EM 2000	112.5
n	56.48	17.92	25.68	33.44	EM 2000	112.5
v	64.16	17.92	25.68	33.44	EM 2000	112.5
i	71.84	17.92	25.68	33.44	EM 2000	112.5
l	79.52	17.92	25.68	33.44	EM 2000	112.5
l	87.2	17.92	25.68	33.44	EM 2000	112.5
e	94.88	17.92	25.68	33.44	EM 2000	112.5
5	102.56	17.92	25.68	33.44	EM 2000	112.5
3	110.24	17.92	25.68	33.44	EM 2000	112.5
N	9.84	18.32	25.2	33.36	EM 2000	112.5
e	17.92	18.32	25.2	33.36	EM 2000	112.5
w	25.92	18.32	25.2	33.36	EM 2000	112.5
B	33.92	18.32	25.2	33.36	EM 2000	112.5
e	41.92	18.32	25.2	33.36	EM 2000	112.5
r	49.92	18.32	25.2	33.36	EM 2000	112.5
n	57.92	18.32	25.2	33.36	EM 2000	112.5
8	65.92	18.32	25.2	33.36	EM 2000	112.5
9	73.92	18.32	25.2	33.36	EM 2000	112.5

Spacing Factor is 1 unless specified otherwise

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

QUANTITY: 1

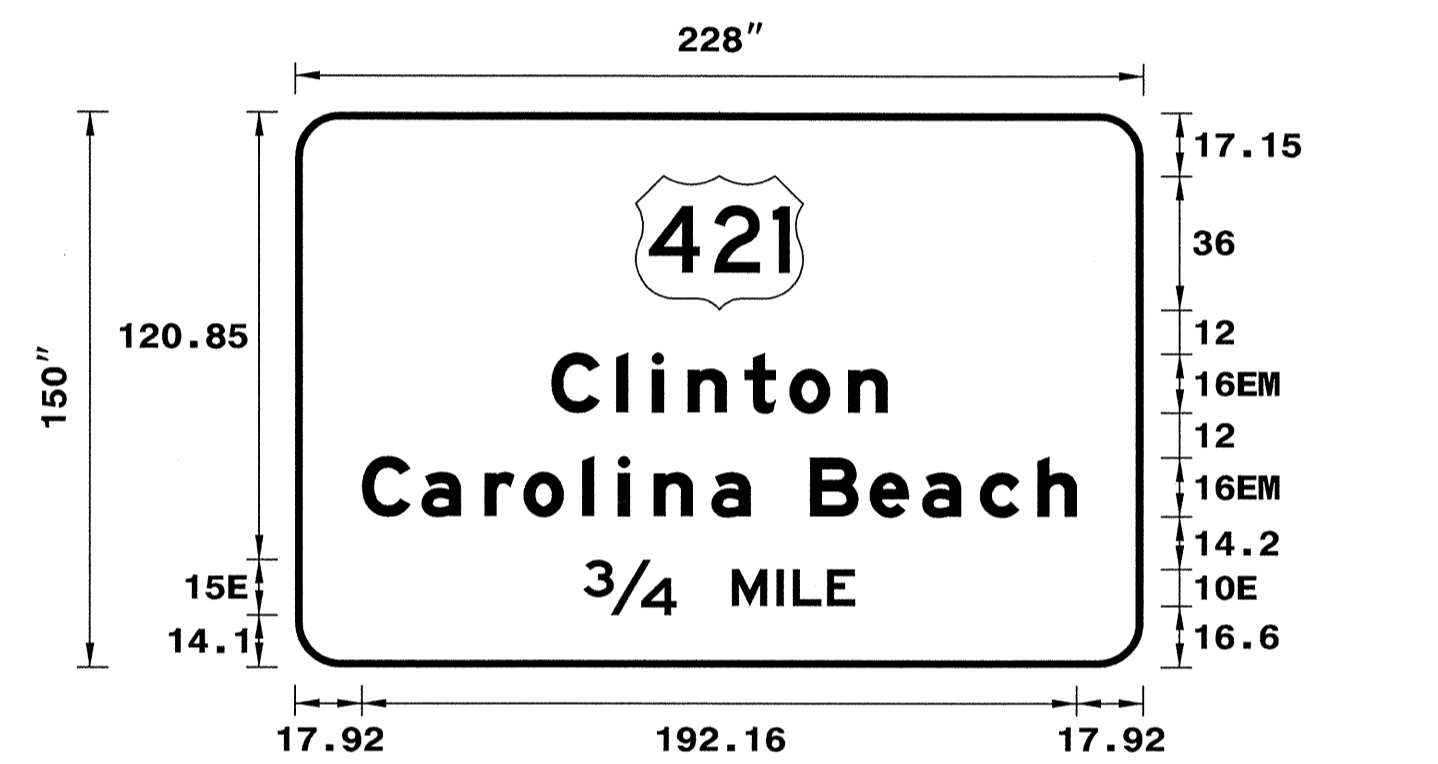
SYMBOL	X	Y	WID	HT
M1_4	91.5	96.6	45	36

SIGN WIDTH: 228"
HEIGHT: 150"
TOTAL AREA: 237.5 Sq. Feet

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"

NO. Z BARS: 4 **MAT'L:** 0.125" (3.2 mm) ALUMINUM
LENGTH: 220.0

DESIGN BY: R DRAYTON **CHECKED BY:** J KOPASKIE
PROJECT ID: R-2633BB **DIV:** 3 **DATE:** Mar 12, 2013



USE NOTES: 1,2,3,4

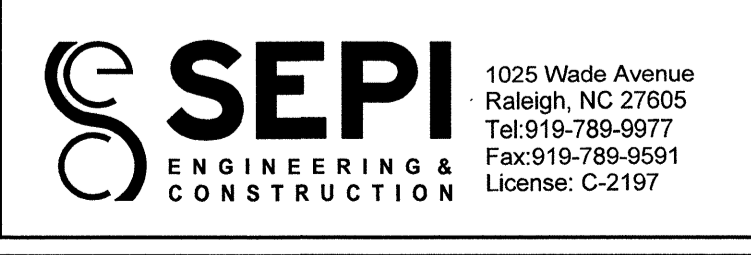
- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter	X	Y	WID	HT	Series/Size	Text Length
C	68.8	86.24	95.84	105.44	EM 2000	90.4
l	120.8	86.24	132.81	48.64	EM 2000	192.16
i	17.92	33.92	50.88	61.28	E 2000	99.23
n	77.12	33.92	86.72	96.32	E 2000	99.23
t	11.84	22.4	138.4	154.4	E 2000	99.23
o	154.4	22.4	168.48	184	E 2000	99.23
n	184	199.52	184	199.52	E 2000	99.23
C	68.8	17.92	95.84	105.44	EM 2000	90.4
a	120.8	17.92	132.81	48.64	EM 2000	192.16
r	17.92	17.92	50.88	61.28	E 2000	99.23
o	77.12	17.92	86.72	96.32	E 2000	99.23
l	11.84	17.92	138.4	154.4	E 2000	99.23
i	154.4	17.92	168.48	184	E 2000	99.23
n	184	17.92	184	199.52	E 2000	99.23
a	68.8	77.46	95.84	105.44	EM 2000	90.4
r	120.8	77.46	132.81	48.64	EM 2000	192.16
o	17.92	77.46	50.88	61.28	E 2000	99.23
l	77.12	77.46	86.72	96.32	E 2000	99.23
i	11.84	77.46	138.4	154.4	E 2000	99.23
n	154.4	77.46	168.48	184	E 2000	99.23
a	184	77.46	184	199.52	E 2000	99.23
3/4	68.8	77.46	95.84	105.44	EM 2000	90.4
M	120.8	77.46	132.81	48.64	EM 2000	192.16
I	17.92	77.46	50.88	61.28	E 2000	99.23
L	77.12	77.46	86.72	96.32	E 2000	99.23
E	11.84	77.46	138.4	154.4	E 2000	99.23

Spacing Factor is 1 unless specified otherwise



**TYPE "A" & "B"
GROUND MOUNTED
SIGN DESIGNS**

5/14/99

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-4B
APPROVED:	
DATE: 5/3/13	
SEAL	

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

DESIGN BY: R DRAYTON CHECKED BY: J KOPASKIE
 PROJECT ID: R-2633BB DIV: 3 DATE: Mar 11, 2013

QUANTITY: 1

SYMBOL	X	Y	WID	HT
M1_4	91.5	110.8	45	36
AR_Type A	100.2	15.2	22.25	35.04

SIGN WIDTH: 228" SIGN HEIGHT: 162" TOTAL AREA: 256.5 Sq. Feet

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"

NO. Z BARS: 4 MAT'L: 0.125" (3.2 mm) ALUMINUM
 LENGTH: 220.0

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

Series/Size	Text Length
EM 2000	90.4
EM 2000	192.16

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 106 BACKG COLOR: Green
 TYPE: A COPY COLOR: White

DESIGN BY: R DRAYTON CHECKED BY: J KOPASKIE
 PROJECT ID: ID DIV: DIV DATE: Mar 11, 2013

QUANTITY: 1

SYMBOL	X	Y	WID	HT
M1_1	30.12	85.7	45	36
M1_4	95.2	85.7	36	36
AR_Type A-Ext.	68.7	15.7	13.33	30.6

SIGN WIDTH: 168" SIGN HEIGHT: 156" TOTAL AREA: 182.0 Sq. Feet

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"

NO. Z BARS: 4 MAT'L: 0.125" (3.2 mm) ALUMINUM
 LENGTH: 160.0

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

Series/Size	Text Length
E 2000	40.1
E 2000	49.36
EM 2000	97.31
EM 2000	139.03

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 105 BACKG COLOR: Green
 TYPE: B COPY COLOR: White

DESIGN BY: R DRAYTON CHECKED BY: J KOPASKIE
 PROJECT ID: R-2633BB DIV: 3 DATE: Mar 11, 2013

QUANTITY: 1

SIGN WIDTH: 138" SIGN HEIGHT: 18" TOTAL AREA: 17.3 Sq. Feet

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1.75"
 RADII: 3"

NO. Z BARS: 0 MAT'L: 0.125" (3.2 mm) ALUMINUM
 LENGTH: 130.0

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

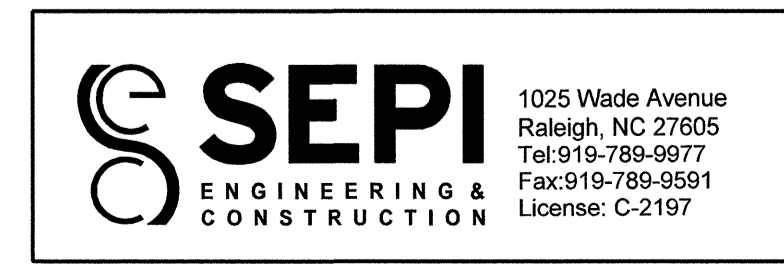
LETTER POSITIONS

Letter locations are panel edge to lower left corner

Series/Size	Text Length
EM 2000	117.68

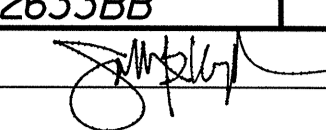
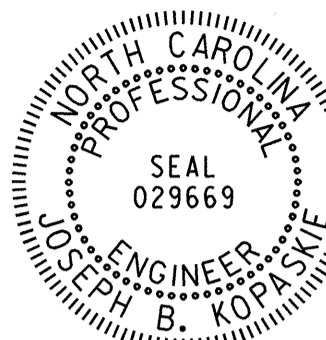
FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

5/14/99

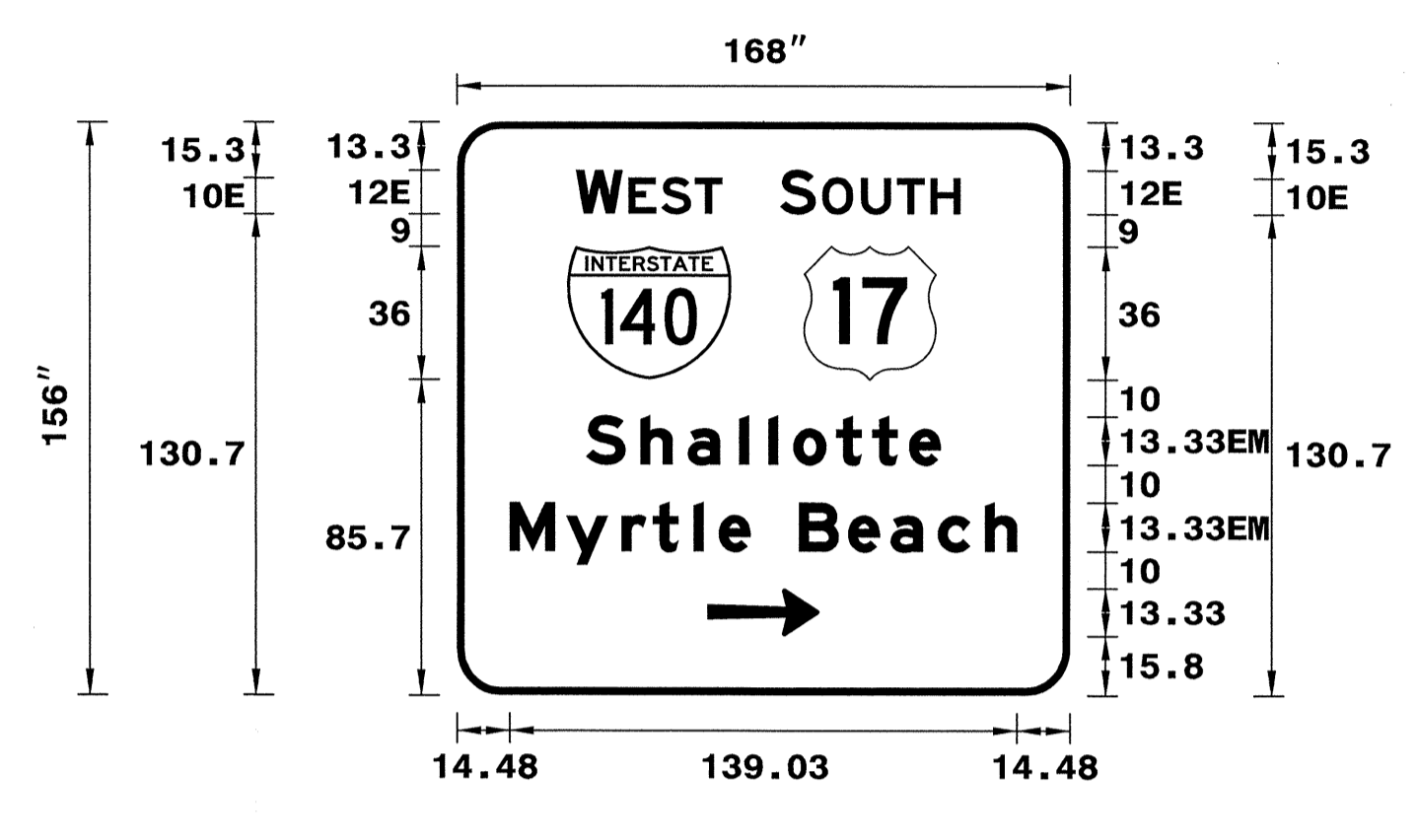


TYPE "A" & "B"
GROUND MOUNTED
SIGN DESIGNS

5/14/99

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-4C
APPROVED: 	
DATE: 5/3/13	
	

SIGN NUMBER: 107 TYPE: A QUANTITY: 1 SIGN WIDTH: 168" HEIGHT: 156" TOTAL AREA: 182.0 Sq. Feet BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 4 LENGTH: 160.0	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT M1_1 30.12 85.7 45 36 M1_4 95.2 85.7 36 36 AR_Type A-Ext. 68.7 15.7 13.33 30.61	DESIGN BY: R DRAYTON PROJECT ID: R-2633BB CHECKED BY: J KOPASKIE DIV: DIV DATE: Mar 11, 2013
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USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

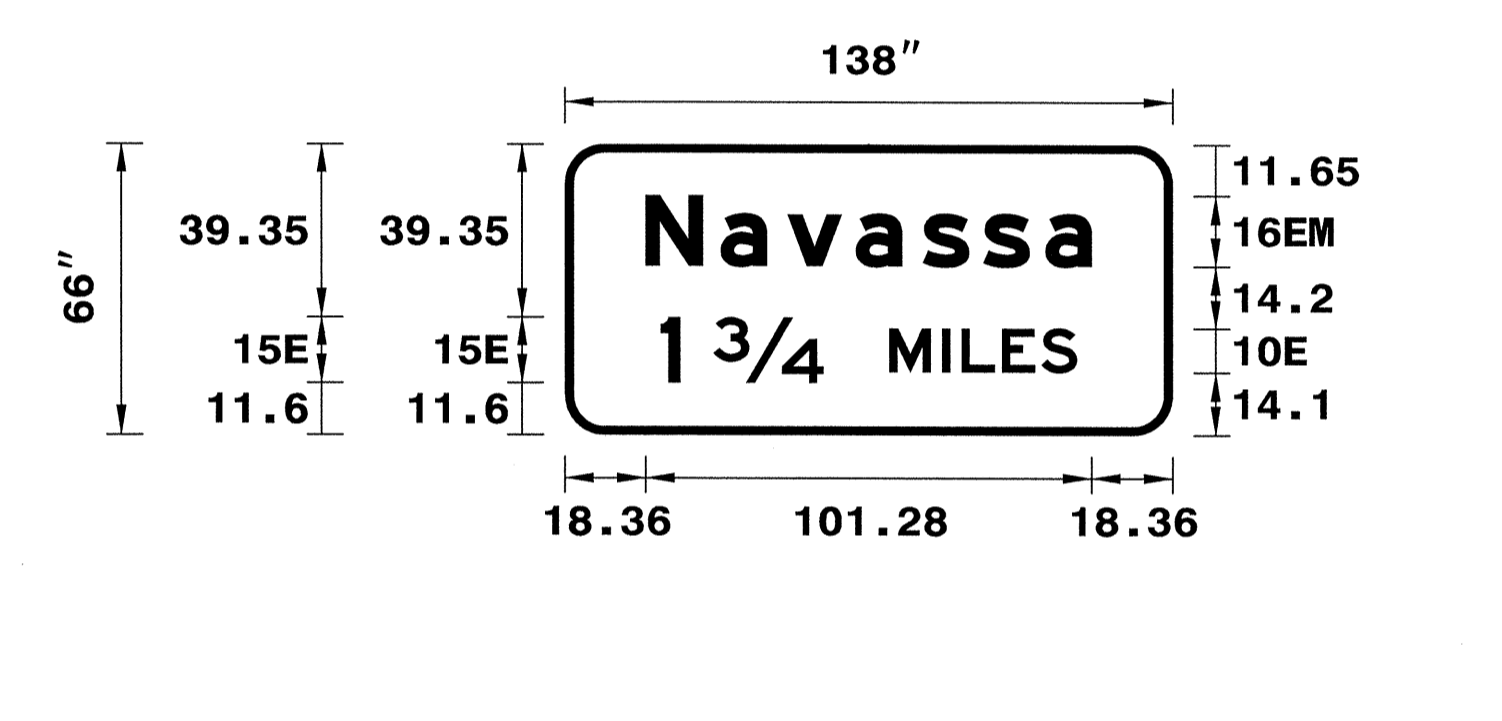
LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter	Series/Size	Text Length
WEST SOUTH	E 2000	40.1
140 17	E 2000	49.36
Shallotte Myrtle Beach	EM 2000	97.31
2 MILES	EM 2000	139.03

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 112B TYPE: A QUANTITY: 1 SIGN WIDTH: 138" HEIGHT: 66" TOTAL AREA: 63.3 Sq. Feet BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 9" NO. Z BARS: 2 LENGTH: 130.0	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT	DESIGN BY: R DRAYTON PROJECT ID: R-2633BB CHECKED BY: J KOPASKIE DIV: 3 DATE: Mar 12, 2013
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USE NOTES: 1 & 2

- 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

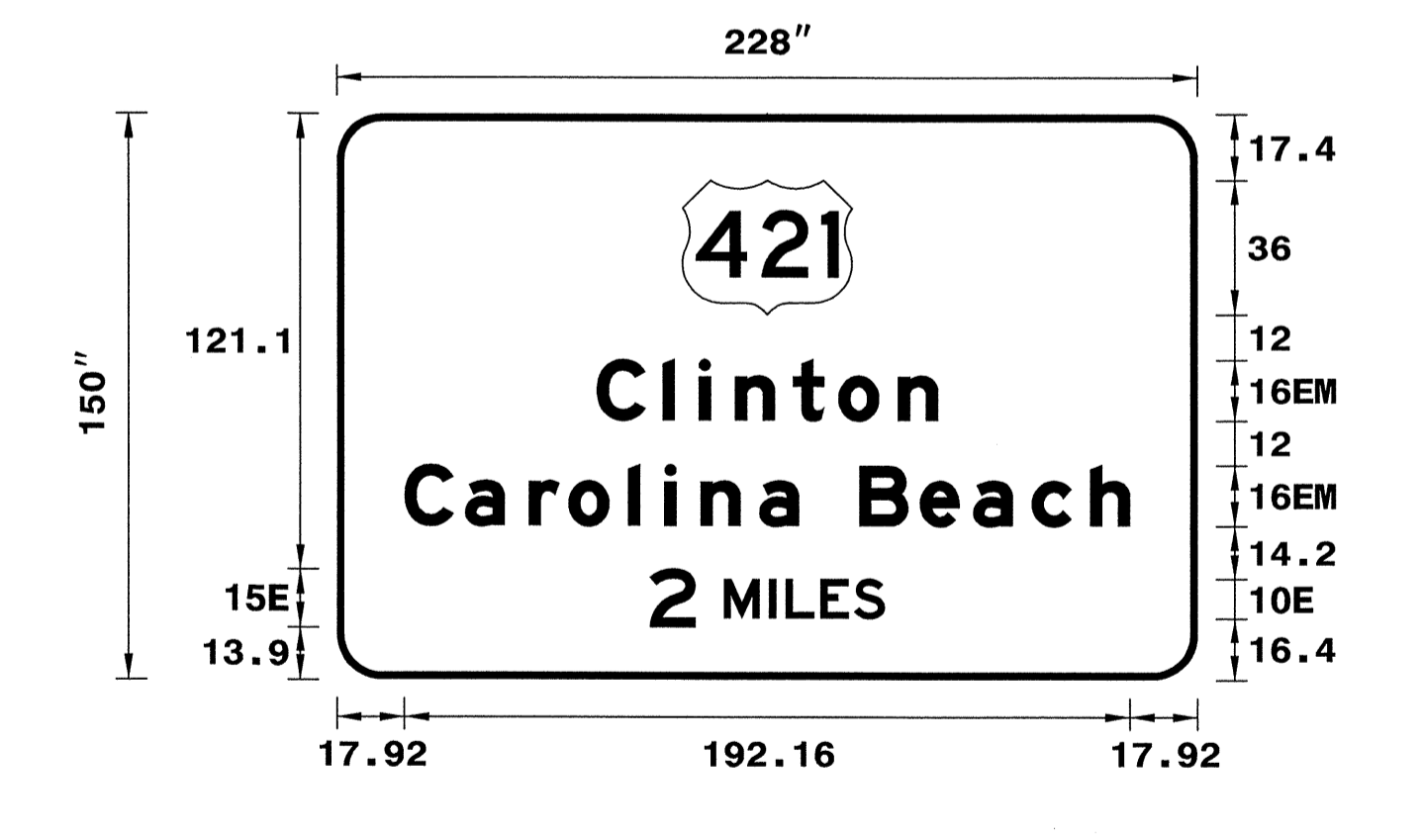
LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter	Series/Size	Text Length
Navassa	EM 2000	101.28
1 3/4 MILES	E 2000	94.58

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 111B TYPE: A QUANTITY: 1 SIGN WIDTH: 228" HEIGHT: 150" TOTAL AREA: 237.5 Sq. Feet BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 4 LENGTH: 220.0	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT M1_4 91.5 96.6 45 36	DESIGN BY: R DRAYTON PROJECT ID: R-2633BB CHECKED BY: J KOPASKIE DIV: 3 DATE: Mar 12, 2013
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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.

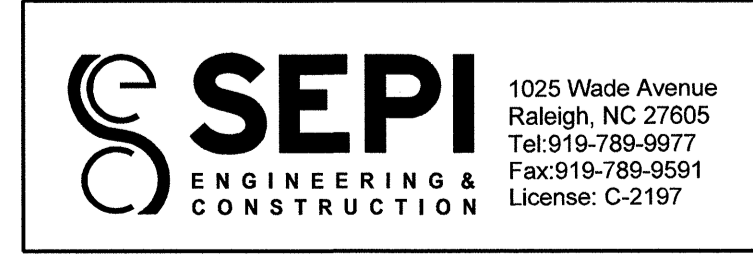
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter	Series/Size	Text Length
Clinton	EM 2000	90.4
Carolina Beach	EM 2000	192.16
2 MILES	E 2000	62.25

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL



TYPE "A" & "B"
GROUND MOUNTED SIGN DESIGNS

5/14/99

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-4D
APPROVED:	
DATE: 5/3/13	
SEAL	

SIGN NUMBER: 113B TYPE: A QUANTITY: 1 SIGN WIDTH: 138" HEIGHT: 66" TOTAL AREA: 63.3 Sq.Feet BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 9" NO. Z BARS: 2 LENGTH: 130.0	BACKG COLOR: Green COPY COLOR: White	DESIGN BY: R DRAYTON PROJECT ID: R-2633BB	CHECKED BY: J KOPASKIE DIV: 3	DATE: Mar 11, 2013
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Spacing Factor is 1 unless specified otherwise

Letter locations are panel edge to lower left corner												Series/Size
												Text Length
N	a	v	a	s	s	a						EM 2000
18.36	35.32	50.52	66.04	81.24	95	109.08						101.28
1/4	M	I	L	E								E 2000
33.96	70.94	82.94	87.34	96.54								70.08

SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 114B TYPE: A QUANTITY: 1 SIGN WIDTH: 138" HEIGHT: 84" TOTAL AREA: 80.5 Sq.Feet BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 11" NO. Z BARS: 2 LENGTH: 130.0	BACKG COLOR: Green COPY COLOR: White	DESIGN BY: R DRAYTON PROJECT ID: R-2633BB	CHECKED BY: J KOPASKIE DIV: 3	DATE: Mar 11, 2013
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Spacing Factor is 1 unless specified otherwise

Letter locations are panel edge to lower left corner												Series/Size
												Text Length
N	a	v	a	s	s	a						EM 2000
18.36	35.32	50.52	66.04	81.24	95	109.08						101.28

SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 201 & 202 TYPE: A QUANTITY: 2 SIGN WIDTH: 78" HEIGHT: 60" TOTAL AREA: 32.5 Sq.Feet BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1.5" RADII: 8" NO. Z BARS: 2 LENGTH: 70.0	BACKG COLOR: Green COPY COLOR: White	DESIGN BY: R DRAYTON PROJECT ID: R-2633BB	CHECKED BY: J KOPASKIE DIV: 3	DATE: Apr 19, 2013
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Spacing Factor is 1 unless specified otherwise

Letter locations are panel edge to lower left corner												Series/Size
												Text Length
E	X	I	T									EM 2000
20.52	31.08	44.04	48.6									36.96
1	4											E 2000
12.21	20.67											25.38

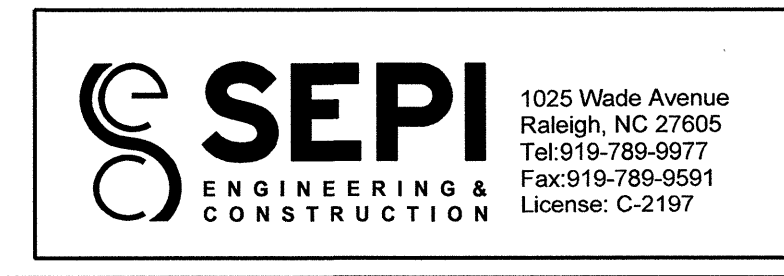
SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 203 TYPE: A QUANTITY: 1 SIGN WIDTH: 78" HEIGHT: 60" TOTAL AREA: 32.5 Sq.Feet BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1.5" RADII: 8" NO. Z BARS: 2 LENGTH: 70.0	BACKG COLOR: Green COPY COLOR: White	DESIGN BY: R DRAYTON PROJECT ID: R-2633BB	CHECKED BY: J KOPASKIE DIV: 3	DATE: Mar 04, 2013
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Spacing Factor is 1 unless specified otherwise

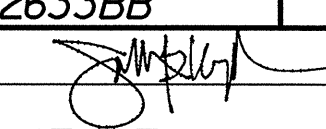
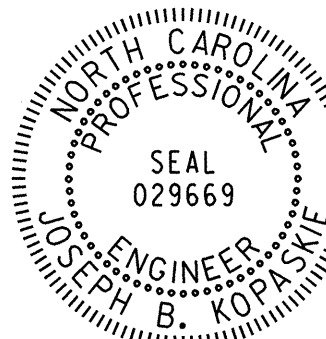
Letter locations are panel edge to lower left corner												Series/Size
												Text Length
E	X	I	T									EM 2000
20.52	31.08	44.04	48.6									36.96
1	0											E 2000
11.67	21.21											24.66

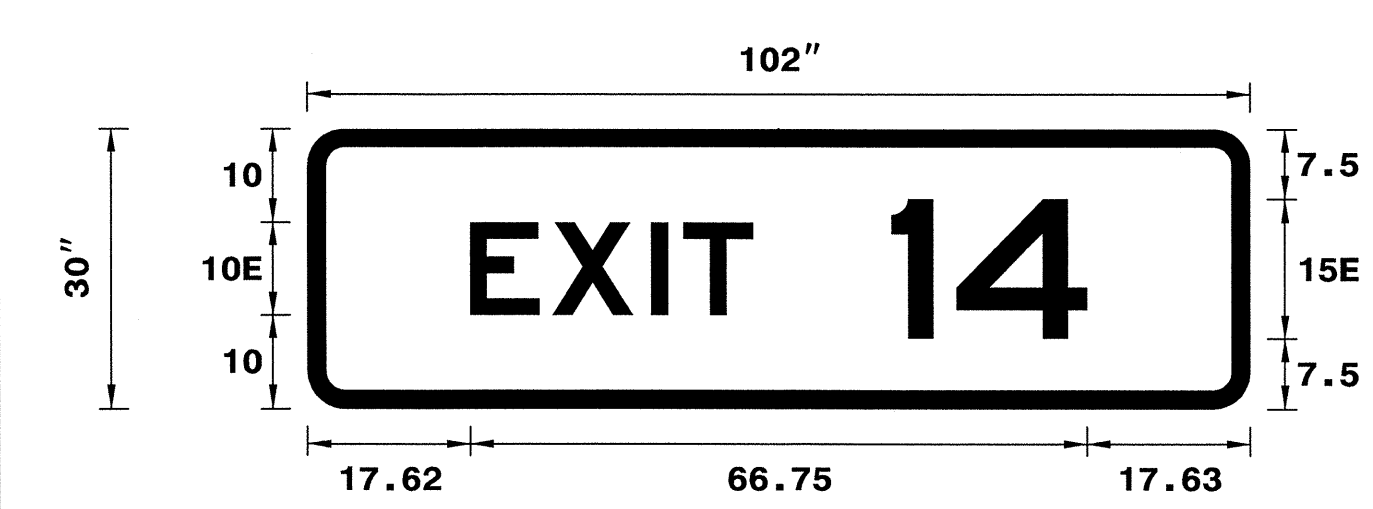
SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

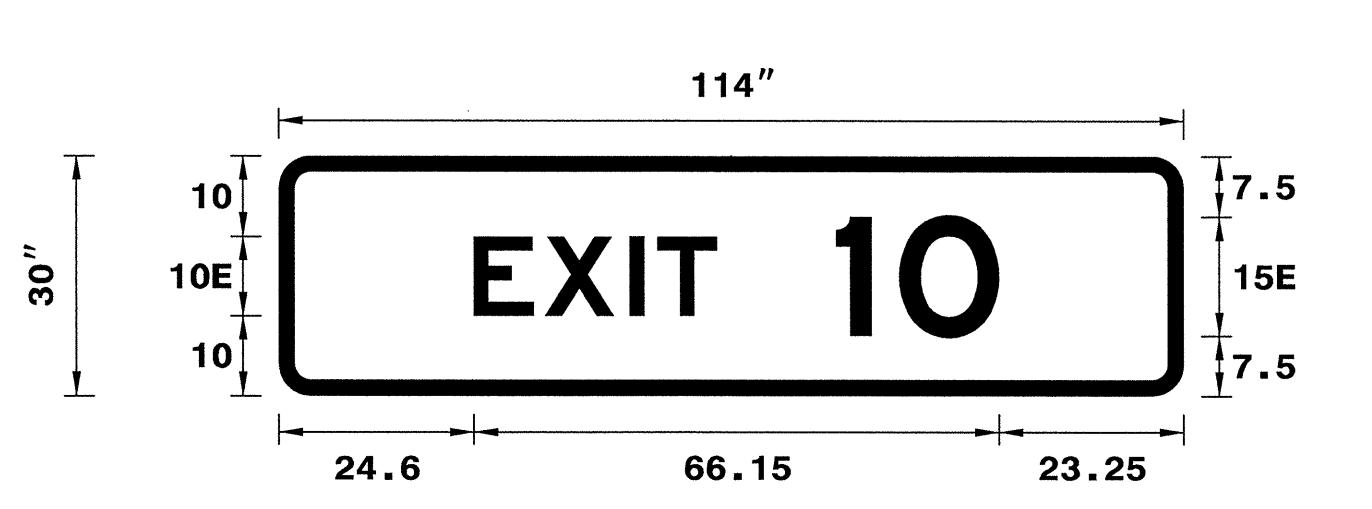


**TYPE "A" GROUND MOUNTED
SIGN DESIGNS**


5/14/99

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-4E
APPROVED: 	
DATE: 5/3/13	
	

SIGN NUMBER: 101A,103A,104A & 111A TYPE: B QUANTITY: 4 SIGN WIDTH: 102" HEIGHT: 30" TOTAL AREA: 21.3 Sq.Feet BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 4" MAT'L: 0.125" (3.2 mm) ALUMINUM	BACKG COLOR: Green COPY COLOR: White	DESIGN BY: R DRAYTON PROJECT ID: R-2633BB	CHECKED BY: J KOPASKIE DIV: 3	DATE: Apr 19, 2013																								
																												
USE NOTES: 1. Legend and border shall be direct applied Grade A sheeting. 2. Background shall be Grade C reflective sheeting.																												
Spacing Factor is 1 unless specified otherwise																												
LETTER POSITIONS Letter locations are panel edge to lower left corner																												
<table border="1"> <thead> <tr> <th>Letter</th> <th>E</th> <th>X</th> <th>I</th> <th>T</th> <th>1</th> <th>4</th> <th>Series/Size</th> </tr> </thead> <tbody> <tr> <td></td> <td>17.62</td> <td>26.52</td> <td>37.22</td> <td>40.72</td> <td>53.22</td> <td>70.27</td> <td>E 2000</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>66.75</td> </tr> </tbody> </table>					Letter	E	X	I	T	1	4	Series/Size		17.62	26.52	37.22	40.72	53.22	70.27	E 2000								66.75
Letter	E	X	I	T	1	4	Series/Size																					
	17.62	26.52	37.22	40.72	53.22	70.27	E 2000																					
							66.75																					
FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL																												

SIGN NUMBER: 112A,113A, & 114A TYPE: B QUANTITY: 3 SIGN WIDTH: 114" HEIGHT: 30" TOTAL AREA: 23.8 Sq.Feet BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 4" NO. Z BARS: 2 LENGTH: 106.0	BACKG COLOR: Green COPY COLOR: White	DESIGN BY: R DRAYTON PROJECT ID: R-2633BB	CHECKED BY: J KOPASKIE DIV: 3	DATE: Apr 02, 2013																								
																												
USE NOTES: 1 & 2 1. Legend and border shall be direct applied Grade A sheeting. 2. Background shall be Grade C reflective sheeting. 3. Shields shall be on 0.032" (0.8mm) aluminum and demountable. 4. Shields shall be Grade A sheeting. 5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:																												
Spacing Factor is 1 unless specified otherwise																												
LETTER POSITIONS Letter locations are panel edge to lower left corner																												
<table border="1"> <thead> <tr> <th>Letter</th> <th>E</th> <th>X</th> <th>I</th> <th>T</th> <th>1</th> <th>0</th> <th>Series/Size</th> </tr> </thead> <tbody> <tr> <td></td> <td>24.6</td> <td>33.5</td> <td>44.2</td> <td>47.7</td> <td>70.2</td> <td>78.15</td> <td>E 2000</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>66.15</td> </tr> </tbody> </table>					Letter	E	X	I	T	1	0	Series/Size		24.6	33.5	44.2	47.7	70.2	78.15	E 2000								66.15
Letter	E	X	I	T	1	0	Series/Size																					
	24.6	33.5	44.2	47.7	70.2	78.15	E 2000																					
							66.15																					
FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL																												

5/14/99



1025 Wade Avenue
 Raleigh, NC 27605
 Tel: 919-789-6077
 Fax: 919-789-9591
 License: C-2197

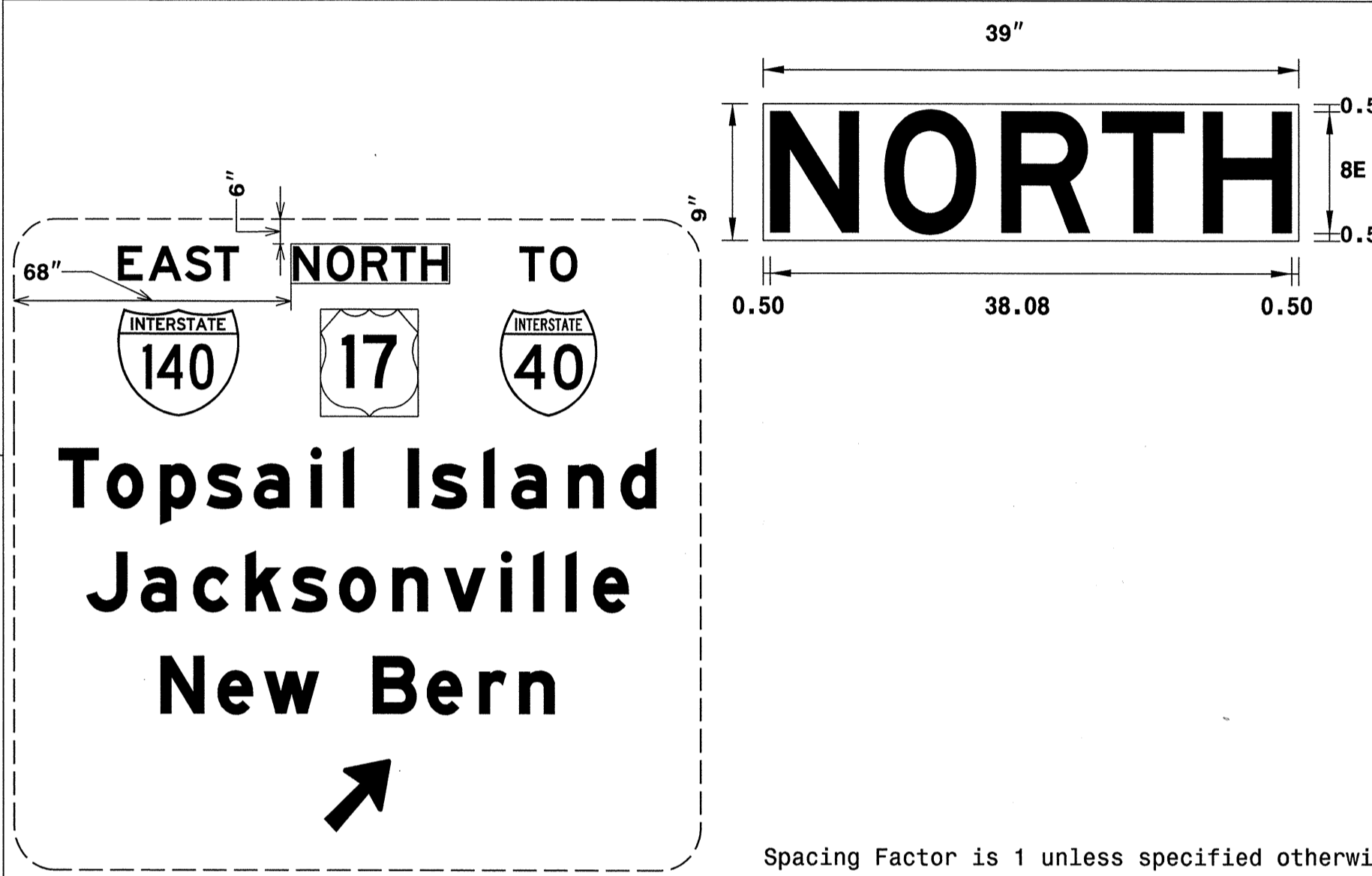
**TYPE "B" GROUND MOUNTED
SIGN DESIGNS**

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-4F
APPROVED: _____	
DATE: 5/3/13	
SEAL 	

SIGN NUMBER: 703
 TYPE: OVERLAY
 QUANTITY: 1
 SIGN WIDTH: 39.1"
 HEIGHT: 9.02"
 TOTAL AREA: 2.4 Sq.Feet
 BORDER TYPE: USE SQUARE CORNERS
 RECESS: 0"
 WIDTH: 0"
 RADII: 0"
 MAT'L: 0.063" (1.6 mm) ALUMINUM

DESIGN BY: R DRAYTON
 PROJECT ID: R-2633BB
 CHECKED BY: J KOPASKIE
 DIV: 3
 DATE: Mar 11, 2013

- USE NOTES: 1 & 2
- Legend and border shall be direct applied Grade A sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields shall be on 0.032" (0.8mm) aluminum and demountable.
 - Shields shall be Grade A sheeting.
 - Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

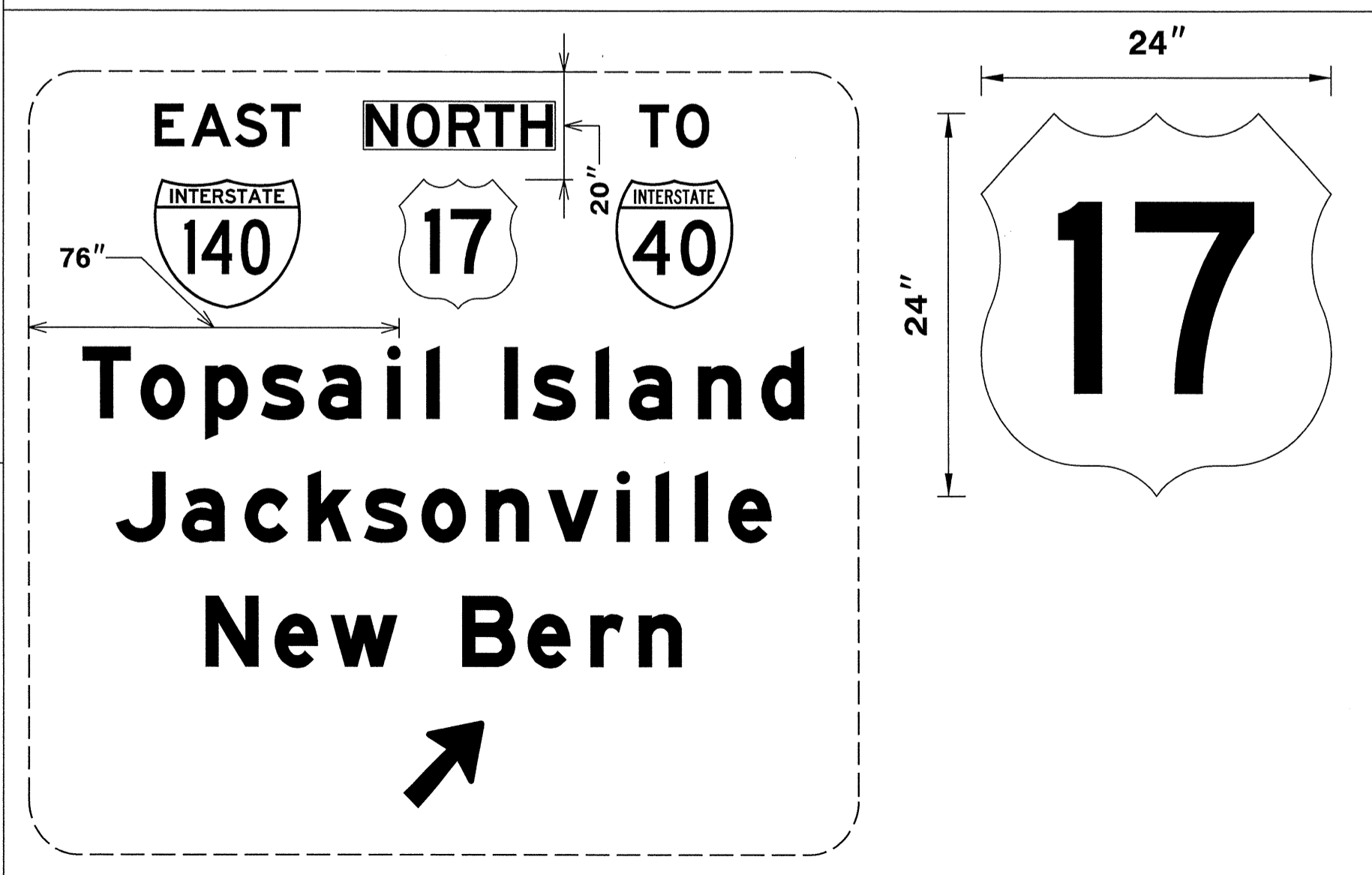
										Series/Size
N	O	R	T	H						Text Length
0.51	8.83	17.39	24.75	32.11						E 2000
										38.08

FILENAME: R-2633BB Sign Designs
 SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 702
 TYPE: OVERLAY
 QUANTITY: 1
 SIGN WIDTH: 24"
 HEIGHT: 24"
 TOTAL AREA: 4.0 Sq.Feet
 BORDER TYPE: USE SQUARE CORNERS
 RECESS: 0"
 WIDTH: 0"
 RADII: 0"
 MAT'L: 0.063" (1.6 mm) ALUMINUM

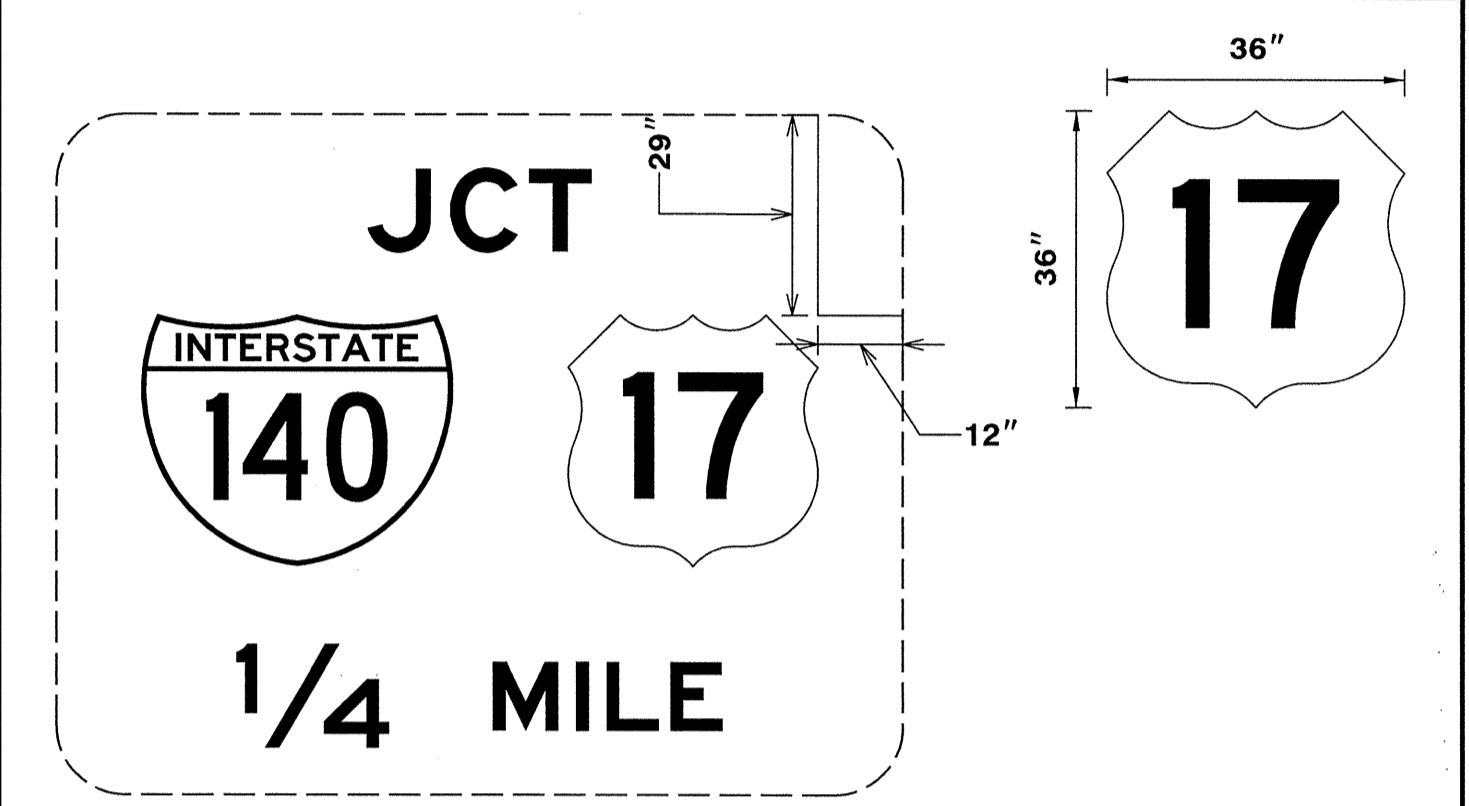
DESIGN BY: R DRAYTON
 PROJECT ID: R-2633BB
 CHECKED BY: CHECKED
 DIV: 3
 DATE: Mar 11, 2013

- USE NOTES: 3 & 4
- Legend and border shall be direct applied Grade A sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields shall be on 0.032" (0.8mm) aluminum and demountable.
 - Shields shall be Grade A sheeting.
 - Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



SIGN NUMBER: 701 & 710
 TYPE: OVERLAY
 QUANTITY: 2
 SIGN WIDTH: 36"
 HEIGHT: 36"
 TOTAL AREA: 9.0 Sq.Feet
 BORDER TYPE: USE SQUARE CORNERS
 RECESS: 0"
 WIDTH: 0"
 RADII: 0"
 MAT'L: 0.063" (1.6 mm) ALUMINUM
 USE NOTES: 3 & 4

DESIGN BY: R DRAYTON
 PROJECT ID: R-2633BB
 CHECKED BY: J KOPASKIE
 DIV: 3
 DATE: Mar 11, 2013



- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

5/14/13

 \$SYTIME\$\$\$\$
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 \$\$\$\$\$\$

OVERLAYS

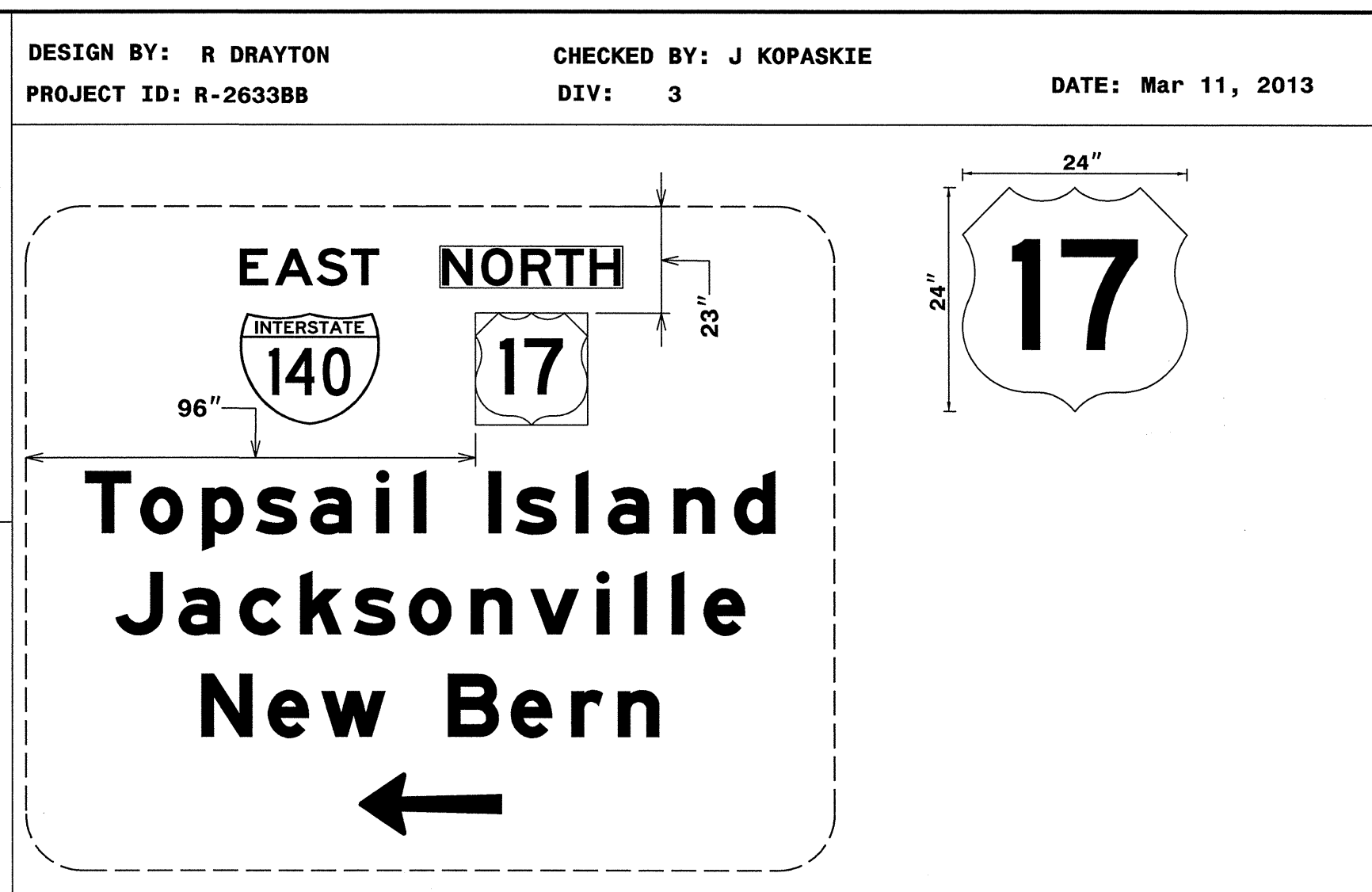
5/14/99

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-4G
APPROVED:	
DATE: 5/3/13	

SIGN NUMBER: 704
TYPE: OVERLAY
QUANTITY: 1
SIGN WIDTH: 24"
HEIGHT: 24"
TOTAL AREA: 4.0 Sq.Feet

BACKG COLOR: White
COPY COLOR: Black

SYMBOL	X	Y	WID	HT
M1_4	0	0	24	24



USE NOTES: 3 & 4

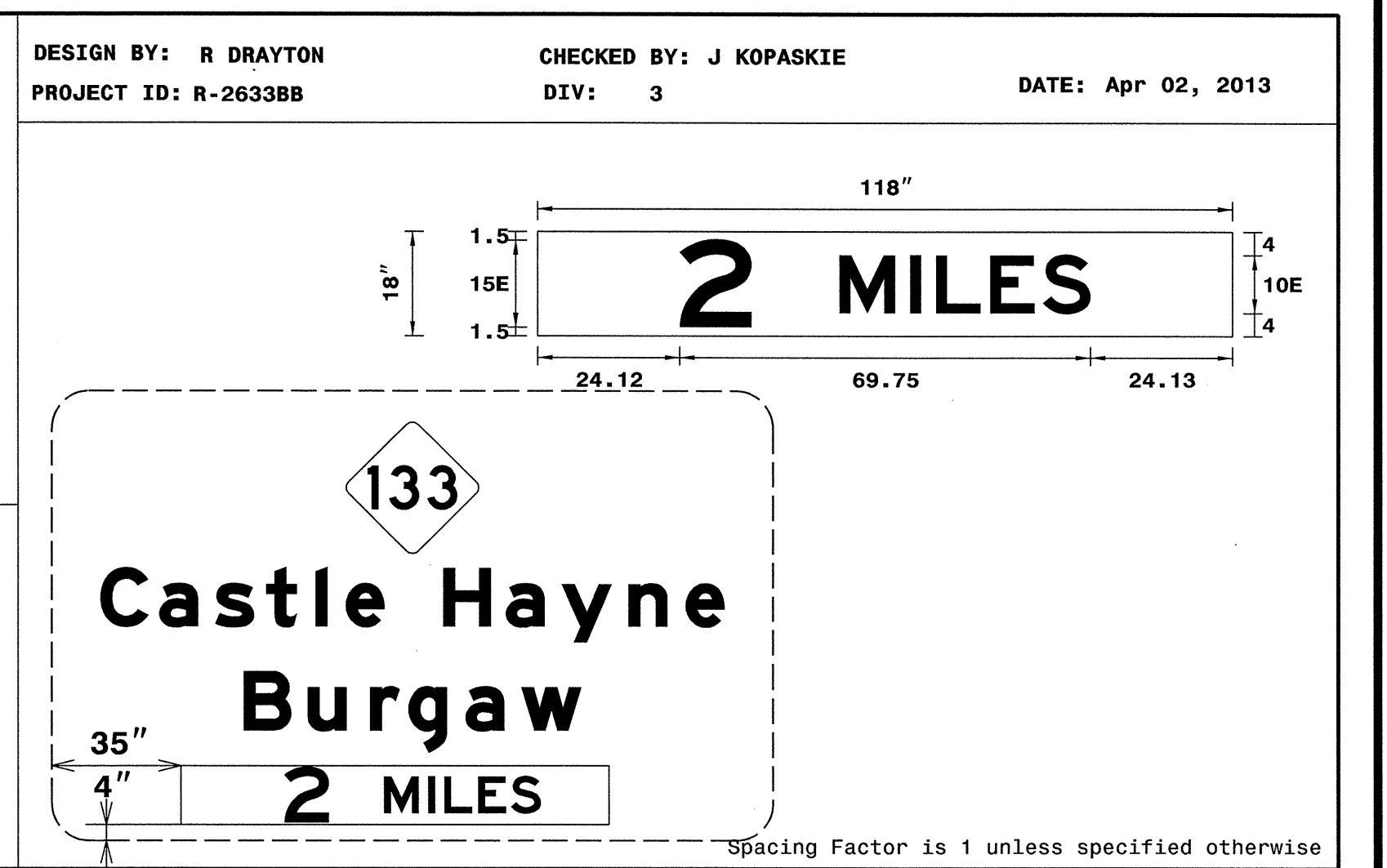
- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

SIGN NUMBER: 706
TYPE: OVERLAY
QUANTITY: 1
SIGN WIDTH: 118"
HEIGHT: 18"
TOTAL AREA: 14.8 Sq.Feet

BACKG COLOR: Green
COPY COLOR: White

BORDER TYPE: USE SQUARE CORNERS
RECESS: 0"
WIDTH: 0"
RADII: 0"

MAT'L: 0.063" (1.6 mm) ALUMINUM



USE NOTES: 1 & 2

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter	Series/Size	Text Length
2	E 2000	69.75
M		
I		
L		
E		
S		

24.12 51.27 63.27 67.67 76.87 85.77

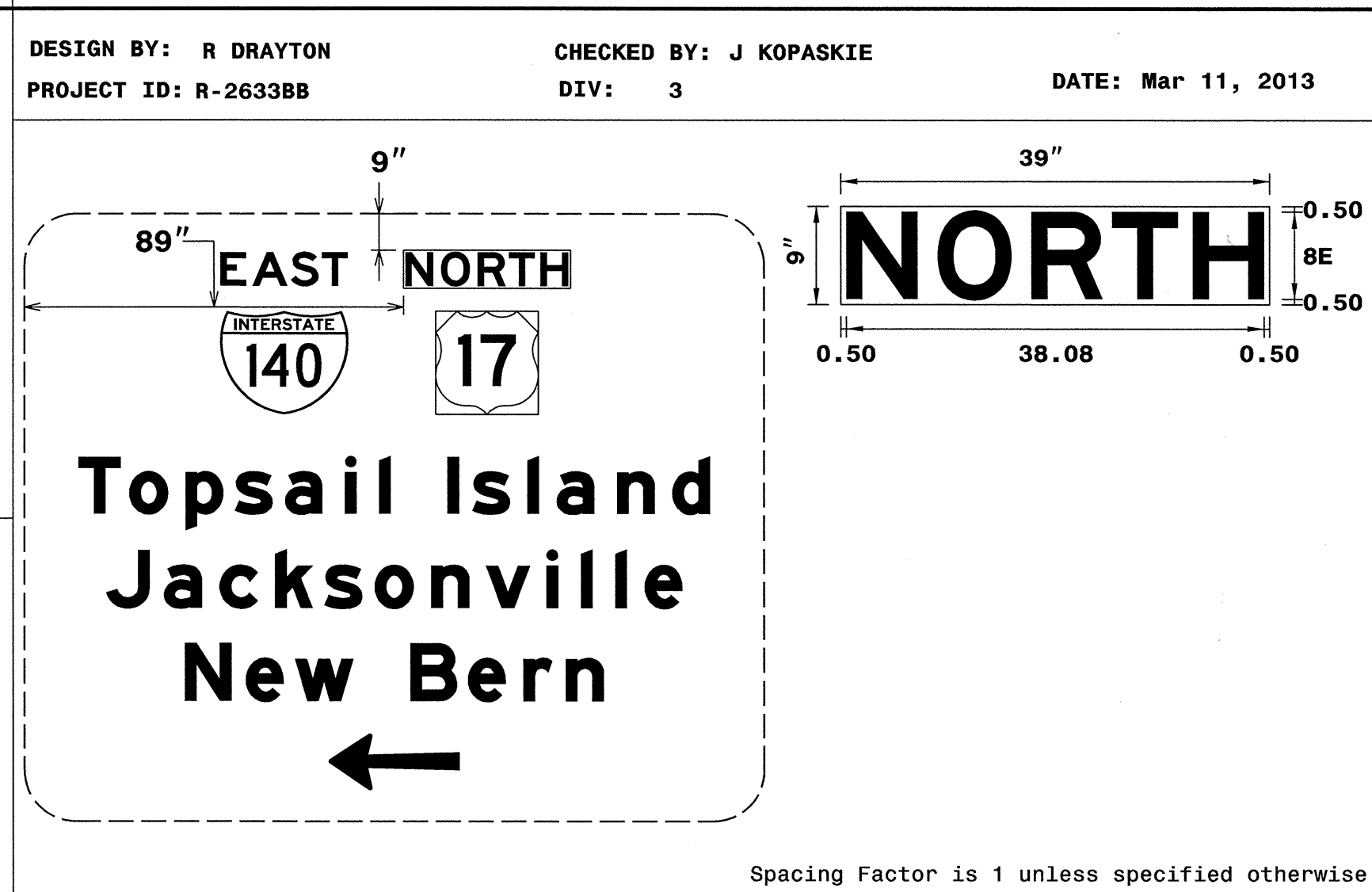
FILENAME: R-2633BB Sign Designs
SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 705
TYPE: OVERLAY
QUANTITY: 1
SIGN WIDTH: 39.1"
HEIGHT: 9.02"
TOTAL AREA: 2.4 Sq.Feet

BACKG COLOR: Green
COPY COLOR: White

BORDER TYPE: USE SQUARE CORNERS
RECESS: 0"
WIDTH: 0"
RADII: 0"

MAT'L: 0.063" (1.6 mm) ALUMINUM



USE NOTES: 1 & 2

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter	Series/Size	Text Length
N	E 2000	38.08
O		
R		
T		
H		

0.51 8.83 17.39 24.75 32.11

FILENAME: R-2633BB Sign Designs
SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

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OVERLAYS

5/14/99

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-4H
APPROVED:	
DATE: 5/3/13	
SEAL 	

SIGN NUMBER: 707 BACKG COLOR: Green
TYPE: OVERLAY COPY COLOR: White
QUANTITY: 1
SIGN WIDTH: 79"
HEIGHT: 13"
TOTAL AREA: 7.1 Sq.Feet
BORDER TYPE: USE SQUARE CORNERS
RECESS: 0"
WIDTH: 0"
RADII: 0"
MAT'L: 0.063" (1.6 mm) ALUMINUM

DESIGN BY: R DRAYTON CHECKED BY: J KOPASKIE
PROJECT ID: R-2633BB DIV: 3 DATE: Apr 02, 2013

USE NOTES: 1 & 2

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

	E	X	I	T	1	7															Series/Size	Text Length
	10.52	19.42	30.12	33.62	53.12	58.76															E 2000	57.96

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 708 BACKG COLOR: Green
TYPE: OVERLAY COPY COLOR: White
QUANTITY: 1
SIGN WIDTH: 101"
HEIGHT: 18"
TOTAL AREA: 12.6 Sq.Feet
BORDER TYPE: USE SQUARE CORNERS
RECESS: 0"
WIDTH: 0"
RADII: 0"
MAT'L: 0.063" (1.6 mm) ALUMINUM

DESIGN BY: R DRAYTON CHECKED BY: J KOPASKIE
PROJECT ID: R-2633BB DIV: 3 DATE: Apr 02, 2013

USE NOTES: 1 & 2

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

	1	M	I	L	E																Series/Size	Text Length
	24.2	43.7	55.7	60.1	69.3																E 2000	52.6

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

SIGN NUMBER: 709 BACKG COLOR: Green
TYPE: OVERLAY COPY COLOR: White
QUANTITY: 1
SIGN WIDTH: 79"
HEIGHT: 13"
TOTAL AREA: 7.1 Sq.Feet
BORDER TYPE: USE SQUARE CORNERS
MAT'L: 0.063" (1.6 mm) ALUMINUM

DESIGN BY: R DRAYTON CHECKED BY: J. KOPASKIE
PROJECT ID: R-2633BB DIV: 3 DATE: Apr 19, 2013

USE NOTES:

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.

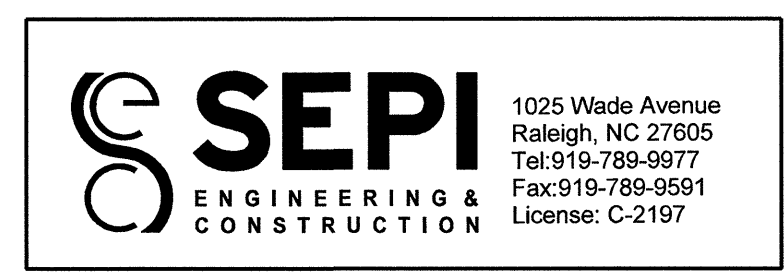
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

	E	X	I	T	1	4															Series/Size	Text Length
	9.74	18.64	29.34	32.84	52.34	57.98															E 2000	59.52

FILENAME: R-2633BB Sign Designs SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL



OVERLAY

5/14/13

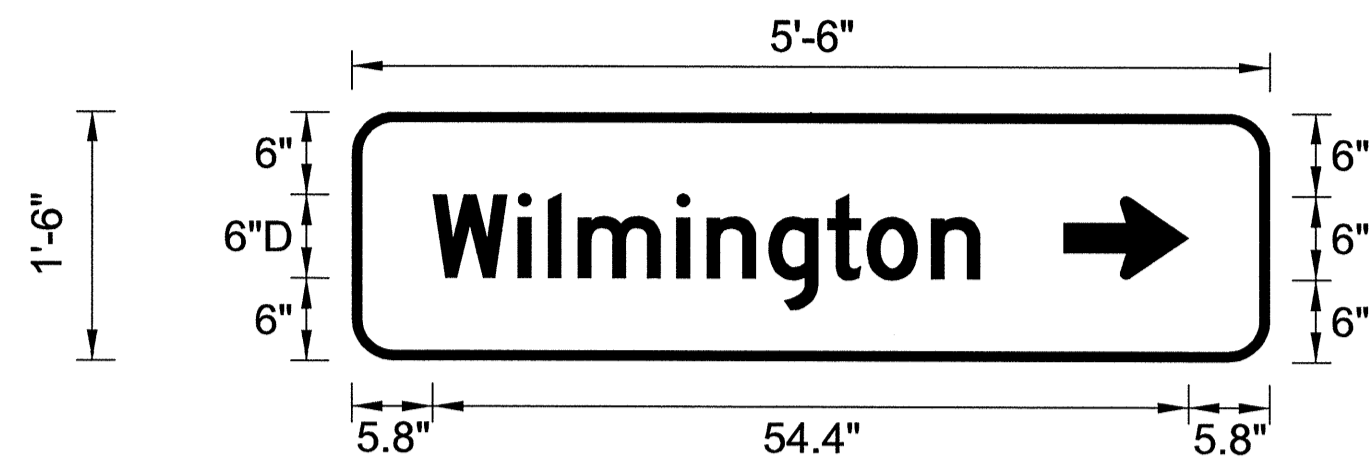
SIGN NUMBER: 301
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 5'-6"
 HEIGHT: 1'-6"
 TOTAL AREA: 8.3 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS:
 LENGTH:

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
AR_Type D	51.2	6	6	9

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R. Drayton
 PROJECT ID: ID
 CHECKED BY: J KOPASKIE
 DIV: 3
 DATE: Jan 11, 2013



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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

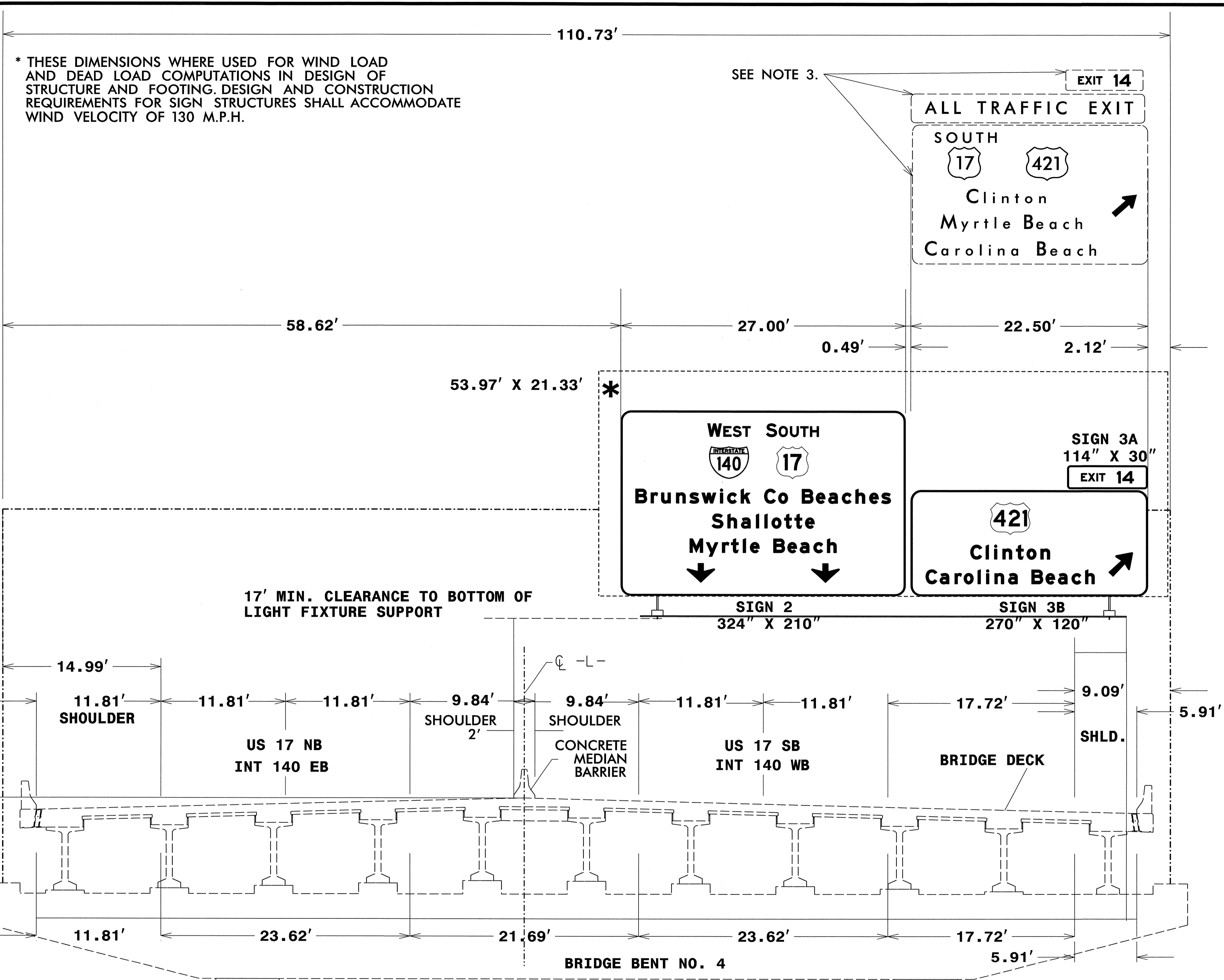
Letter locations are panel edge to lower left corner											Series/Size	
W	i	l	m	i	n	g	t	o	n			Text Length
5.8	11.9	14.1	16.3	23.3	25.5	29.9	34.2	37	41.6			D 2000 39.4

FILENAME: R-2633BA Sign Designs
 SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-41
APPROVED:	
DATE: 5/3/13	
SEAL	

5/14/13

5/14/99



* THESE DIMENSIONS WERE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTING. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 130 M.P.H.

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-4J
APPROVED:	
DATE: 5/3/13	
SEAL	

- NOTES:
1. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE WHILE ACQUIRING THE 17' MIN. CLEARANCE TO BOTTOM OF LIGHT FIXTURE SUPPORT
 2. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
 3. DISPOSAL OF SIGN, A OR B (OVERHEAD)

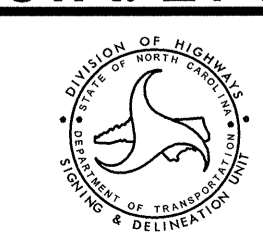
SEPI ENGINEERING & CONSTRUCTION

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9377
Fax: 919-789-9591
License: C-2197

SIGNS FURNISHED BY STATE

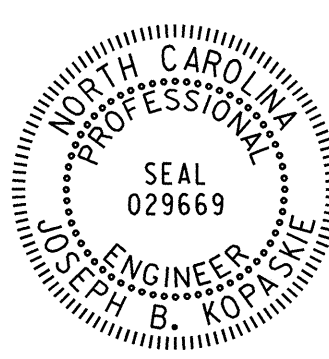
EXISTING OVERHEAD SIGN ASSEMBLY "B"
-L- STA. 21+92.4

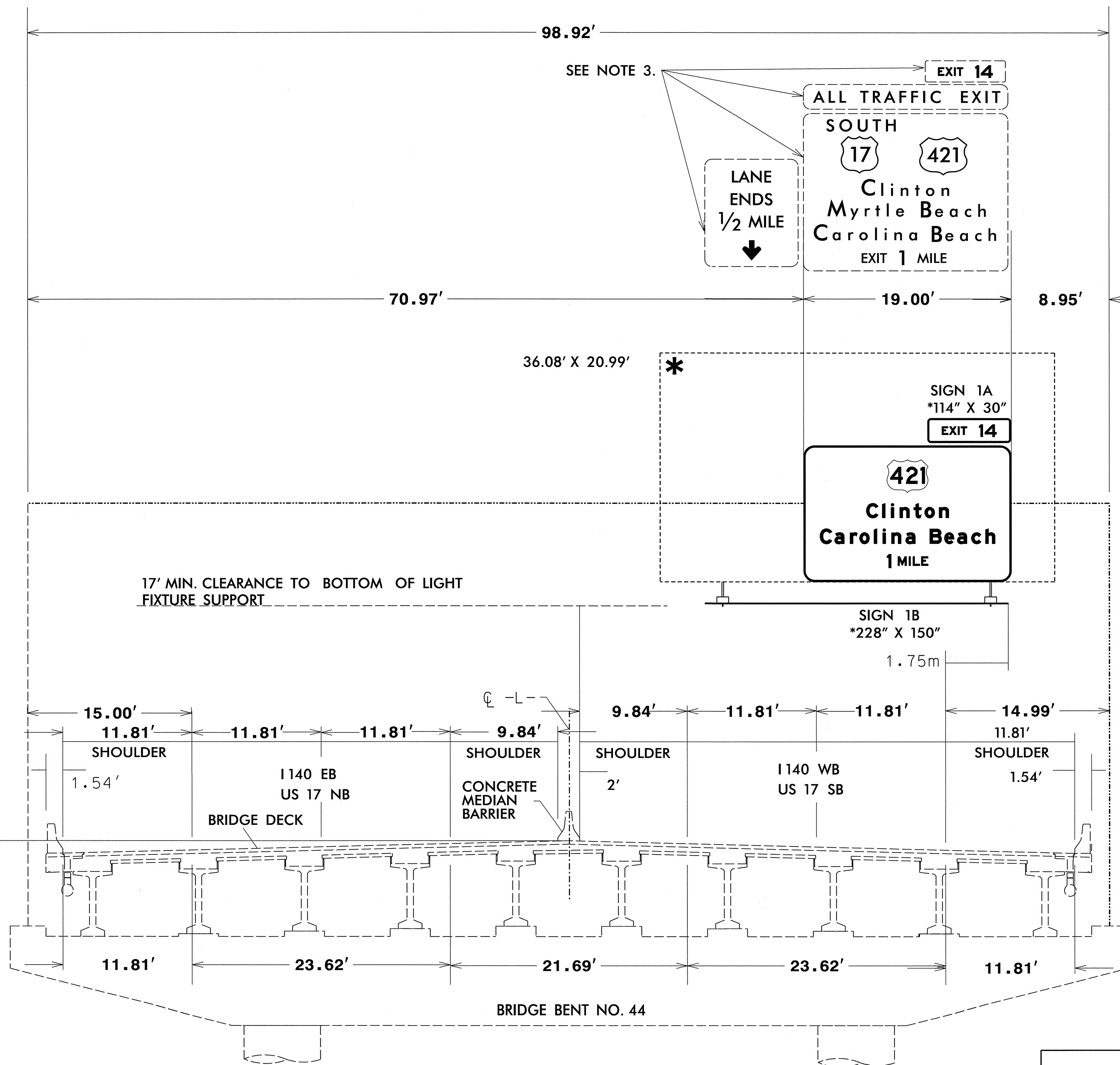
SCALE: NTS	REVISIONS
DATE: 4-2013	
DWG. BY: RCD	
DESIGN BY: RCD	
REVIEWED BY: JBK	



5/14/99

5/14/99

PROJECT REFERENCE NO. <i>R-2633BB</i>	SHEET NO. <i>SIGN-4K</i>
APPROVED: <i>[Signature]</i>	DATE: <i>5/3/13</i>
SEAL	
	




* THESE DIMENSIONS WERE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTING. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 130 M.P.H.

NOTES:

1. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE WHILE ACQUIRING THE 17' MIN. CLEARANCE TO BOTTOM OF LIGHT FIXTURE SUPPORT
2. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
3. DISPOSAL OF SIGN, A OR B (OVERHEAD)

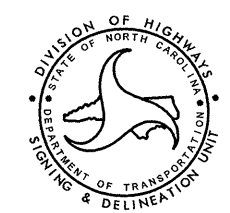
SIGNS FURNISHED BY STATE

EXISTING OVERHEAD SIGN ASSEMBLY "D"
-L- STA. 37+51.6

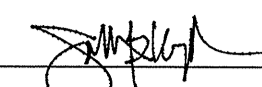
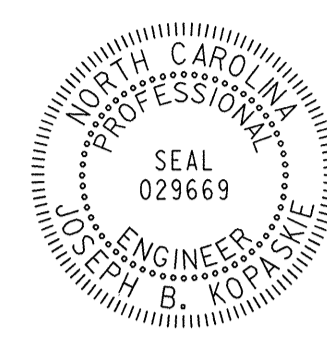


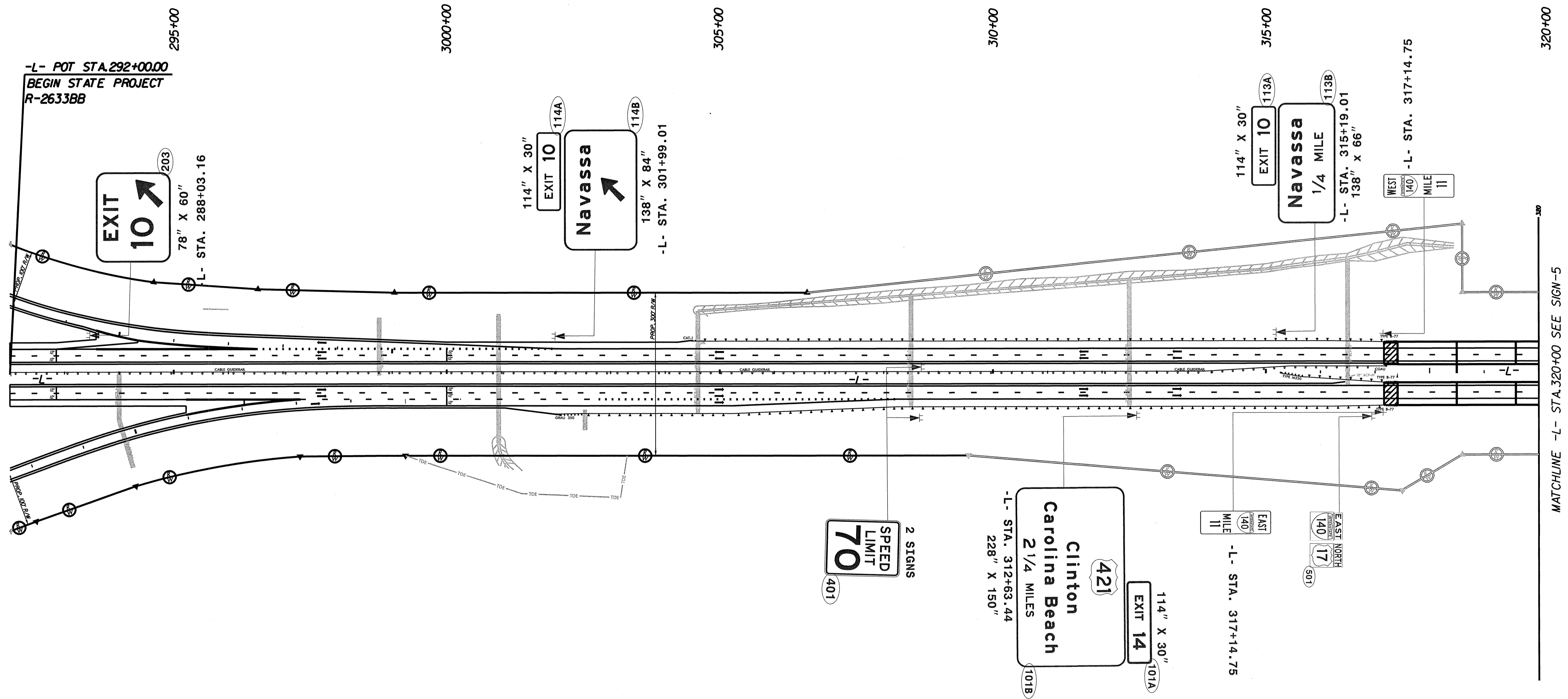
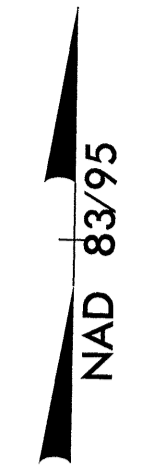
SEPI ENGINEERING & CONSTRUCTION
1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9561
License: C-2197

SCALE:	NTS
DATE:	4-2013
DWG. BY:	RCD
DESIGN BY:	RCD
REVIEWED BY:	JBK



REVISIONS

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-5A
APPROVED: 	
DATE: 5/3/13	
SEAL	
	



REVISIONS

8/17/99

MATCHLINE -L- STA. 320+00 SEE SIGN-5

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Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

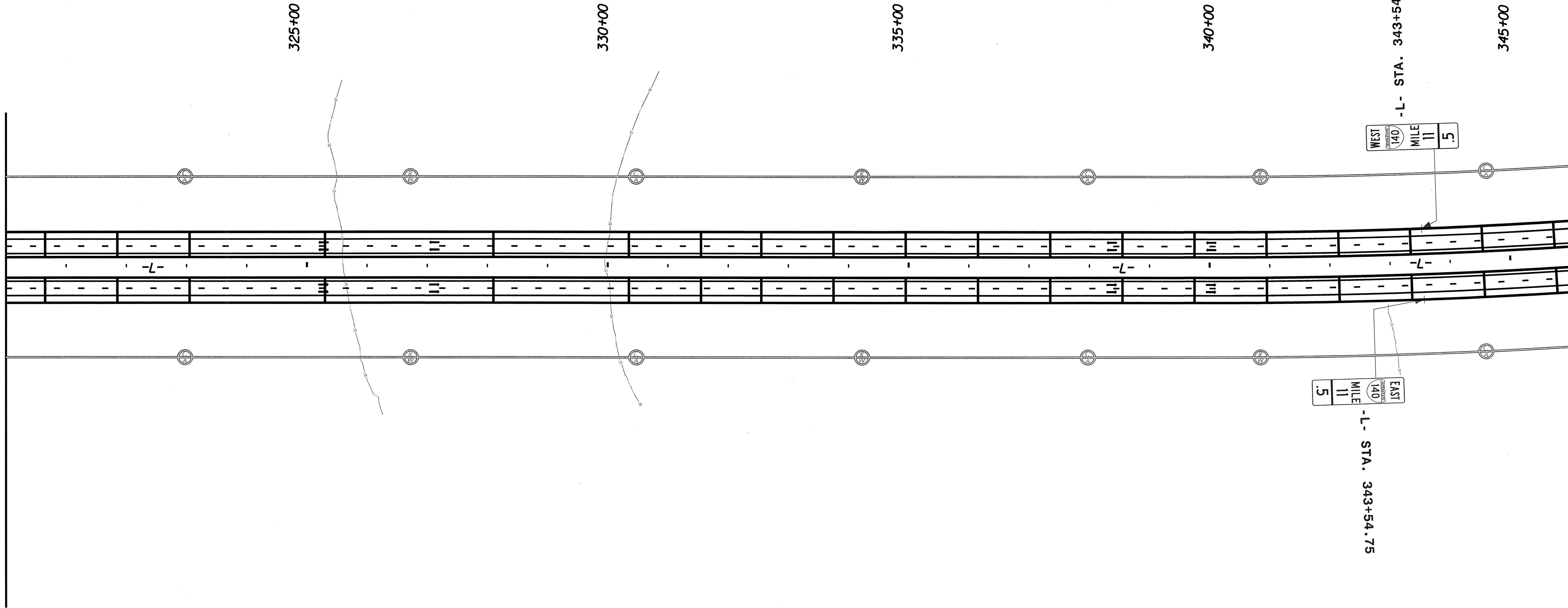
PROPOSED SIGNS
R-2633BB -L- STA 292+00 TO STA. 320+00

\$\$\$\$\$SYTIME\$\$\$\$\$

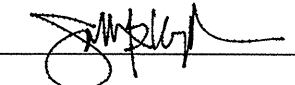
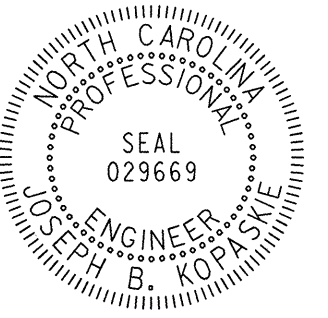
8/17/99

REVISIONS

MATCHLINE -L- STA. 320+00 SEE SIGN-5A



MATCHLINE -L- STA. 346+00 SEE SHEET 6

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-5
APPROVED: 	
DATE: 5/3/13	
SEAL	
	

SYTIME#####
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SEPI
ENGINEERING & CONSTRUCTION

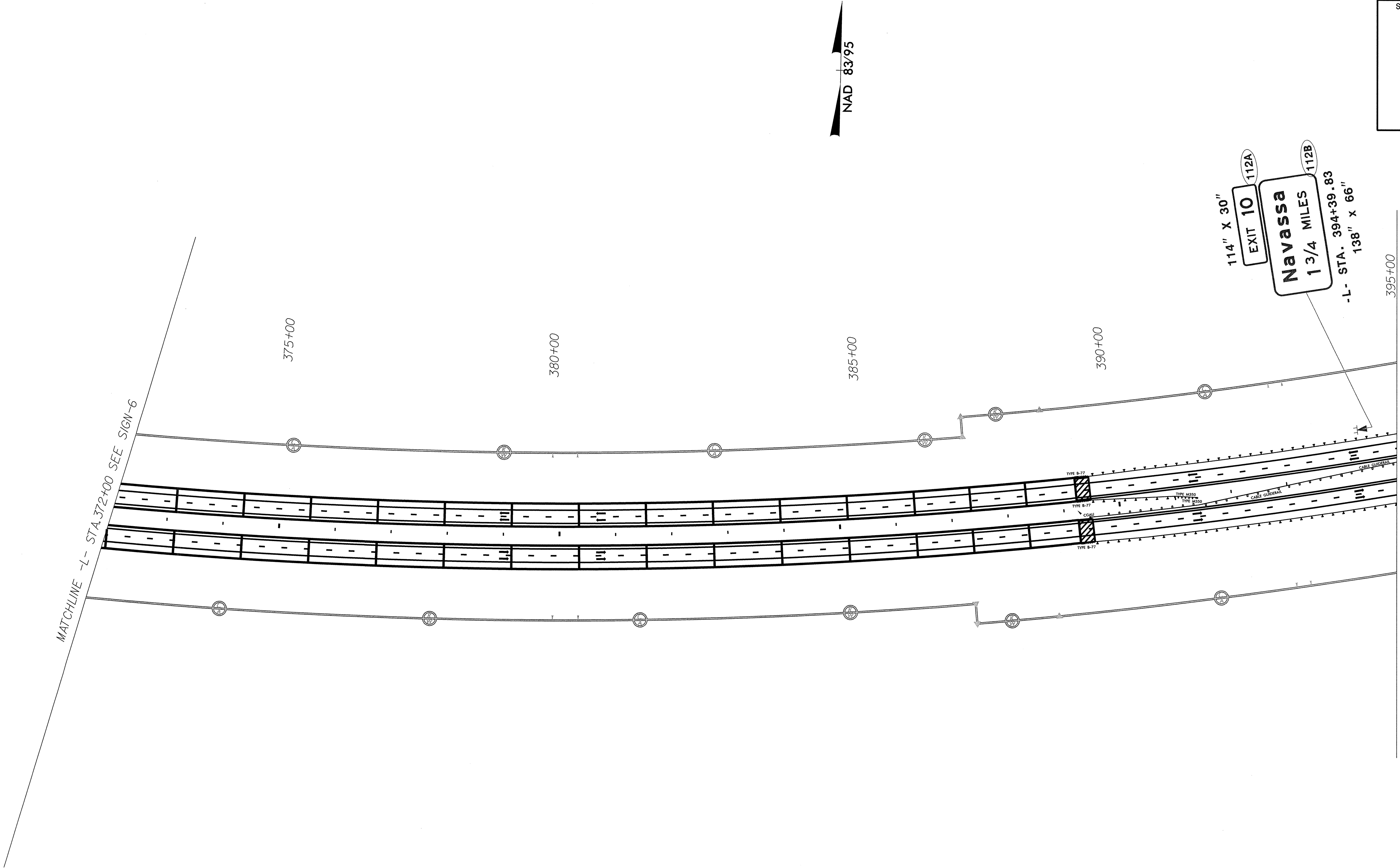
1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-786-9977
Fax: 919-786-9591
License: C-2197

PROPOSED SIGNS
R-2633BB -L- STA 320+00 TO 346+00

8/17/99

REVISIONS	

SYTIME
 SDCON



PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-7
APPROVED:	DATE: 5/3/13
SEAL	

SEPI
 ENGINEERING & CONSTRUCTION

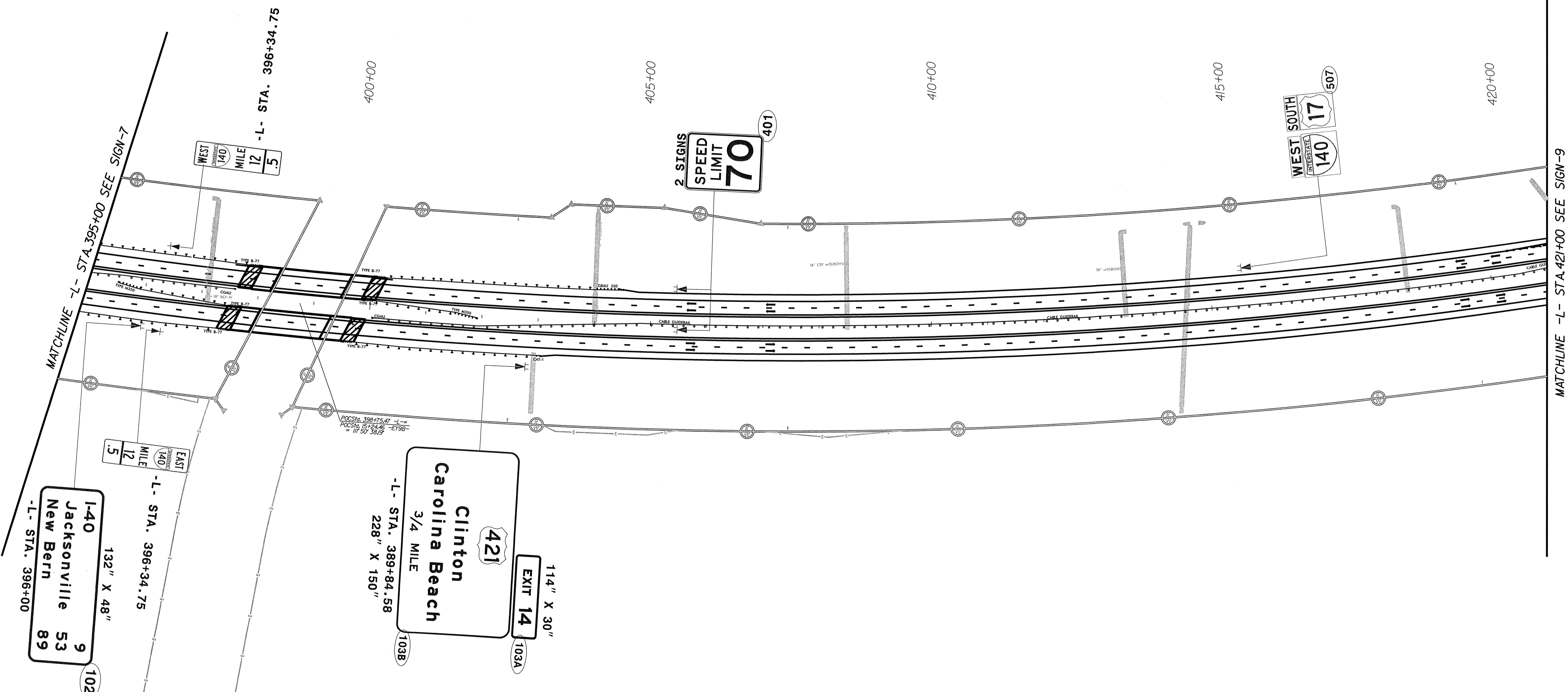
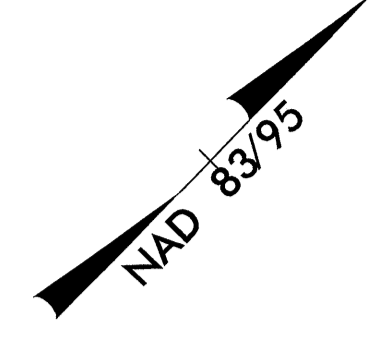
1025 Wade Avenue
 Raleigh, NC 27605
 Tel: 919-789-9977
 Fax: 919-789-9591
 License: C-2197

PROPOSED SIGNS

R-2633BB -L- STA 372+00 TO 395+00

8/17/99
 REVISIONS
 1. 11/1/13
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 100. 11/1/13

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-8
APPROVED:	
DATE: 5/3/13	
SEAL 	



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 CONSTRUCTION

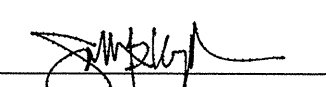

1025 Wade Avenue
 Raleigh, NC 27605
 Tel: 919-789-9977
 Fax: 919-789-9591
 License: C-2197

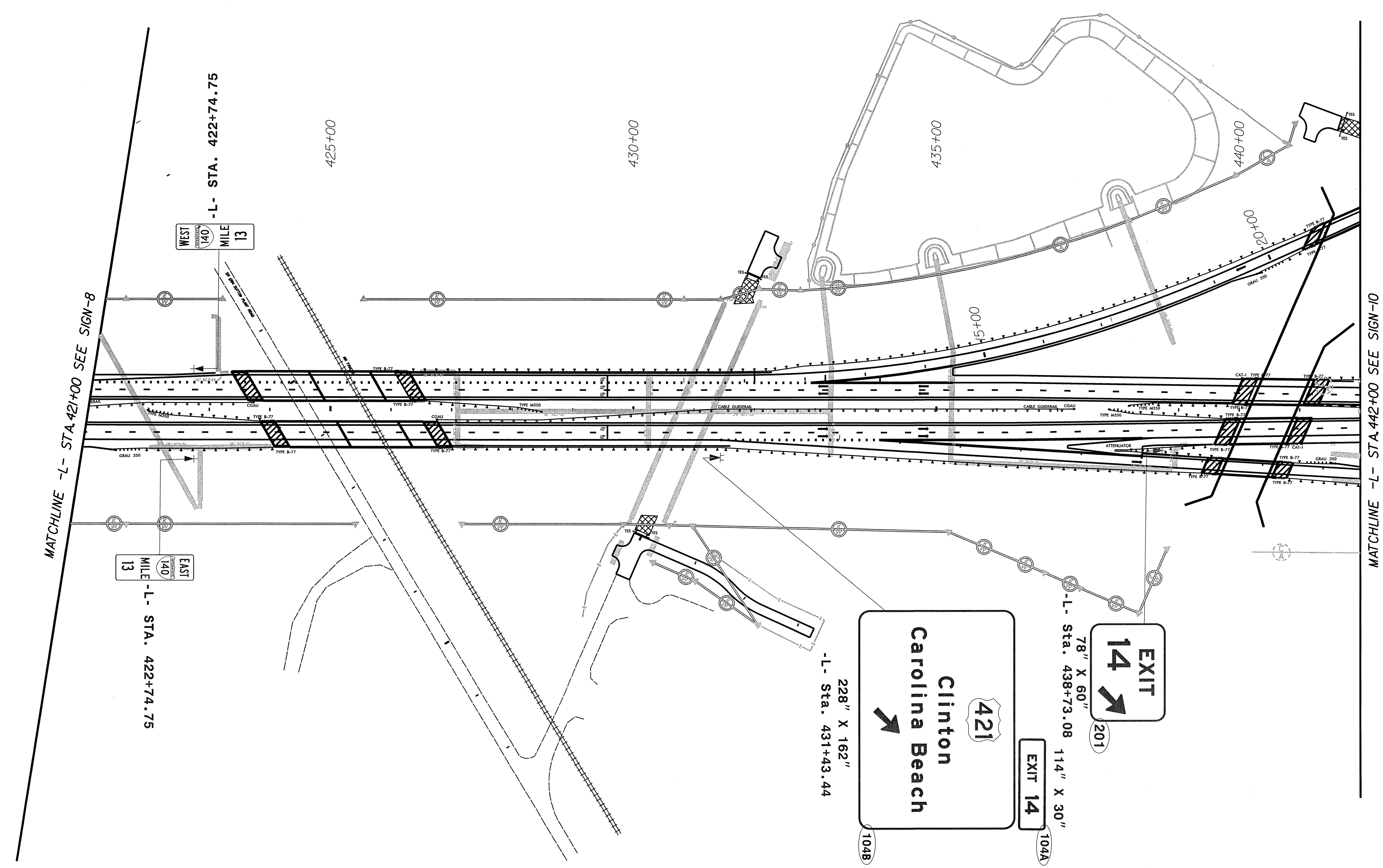
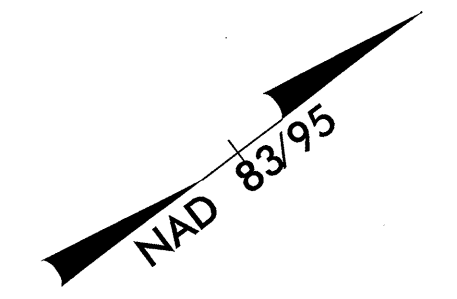

PROPOSED SIGNS
R-2633BB -L- STA 395+00 TO 421+00

REVISIONS	

8/17/99

 SYSTEMS DESIGN *****

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN- 9
APPROVED: 	
DATE: 5/3/13	
SEAL	
	

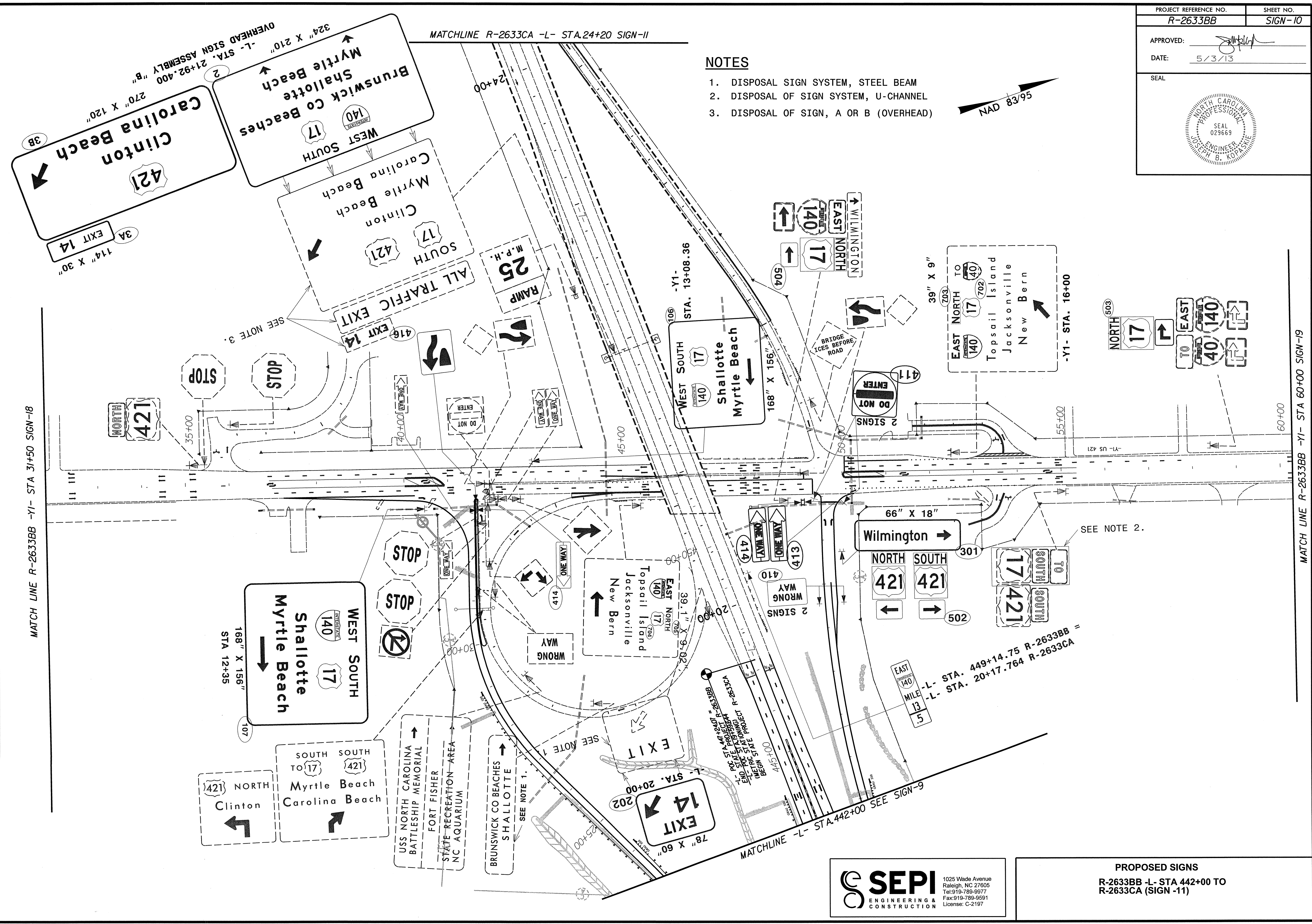
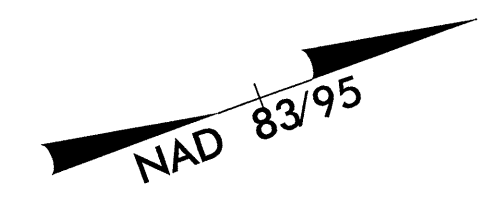



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PROPOSED SIGNS
R-2633BB -L- STA 421+00 TO 442+00

- NOTES**
1. DISPOSAL SIGN SYSTEM, STEEL BEAM
 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
 3. DISPOSAL OF SIGN, A OR B (OVERHEAD)



REVISIONS

8/17/99

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PROPOSED SIGNS
R-2633BB -L- STA 442+00 TO
R-2633CA (SIGN -11)

MATCH LINE R-2633BB -Y1- STA 31+50 SIGN-18

MATCH LINE R-2633BB -Y1- STA 60+00 SIGN-19

MATCHLINE R-2633CA -L- STA.24+20 SIGN-11

MATCHLINE -L- STA.442+00 SEE SIGN-6

168" X 156"
STA 12+35

78" X 60"
EXIT 14

66" X 18"
Wilmington

-L- STA. 449+14.75 R-2633BB =
-L- STA. 20+17.764 R-2633CA

SEE NOTE 2.

SEE NOTE 3.

SEE NOTE 1.

US NORTH CAROLINA
BATTLESHIP MEMORIAL
FORT FISHER
STATE RECREATION AREA
NC AQUARIUM

BRUNSWICK CO BEACHES
SHALLOTTE

EXIT 14
STA. 20+00

WEST SOUTH 17
Shalotte
Myrtle Beach

DO NOT ENTER

EAST NORTH TO
17
140
Topsail Island
Jacksonville
New Bern

NORTH 17
EAST TO
140
140

Clinton Beach
421
114" X 30"
EXIT 14

Brunswick Co Beaches
Shalotte
140
WEST SOUTH 17

324" X 210"
-L- STA. 21+92.400
OVERHEAD SIGN ASSEMBLY "B"

STOP

STOP

STOP

STOP

421 NORTH
Clinton

SOUTH TO 17
SOUTH 421
Myrtle Beach
Carolina Beach

421 SOUTH
Myrtle Beach
Shalotte

421 SOUTH
Carolina Beach

421 NORTH
Clinton

421 SOUTH
Myrtle Beach
Shalotte

421 SOUTH
Carolina Beach

421 NORTH
Clinton

421 SOUTH
Myrtle Beach
Shalotte

421 SOUTH
Carolina Beach

421 NORTH
Clinton

421 SOUTH
Myrtle Beach
Shalotte

421 SOUTH
Carolina Beach

421 NORTH
Clinton

421 SOUTH
Myrtle Beach
Shalotte

421 SOUTH
Carolina Beach

421 NORTH
Clinton

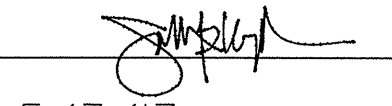
421 SOUTH
Myrtle Beach
Shalotte

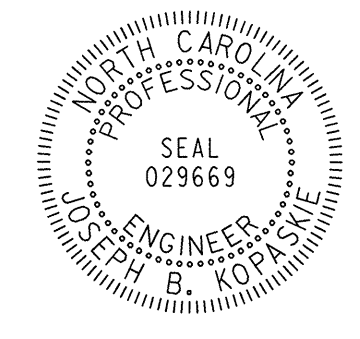
421 SOUTH
Carolina Beach

421 NORTH
Clinton

421 SOUTH
Myrtle Beach
Shalotte

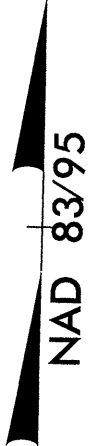
421 SOUTH
Carolina Beach

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN- II
APPROVED: 	DATE: 5/3/13
SEAL	



NOTES

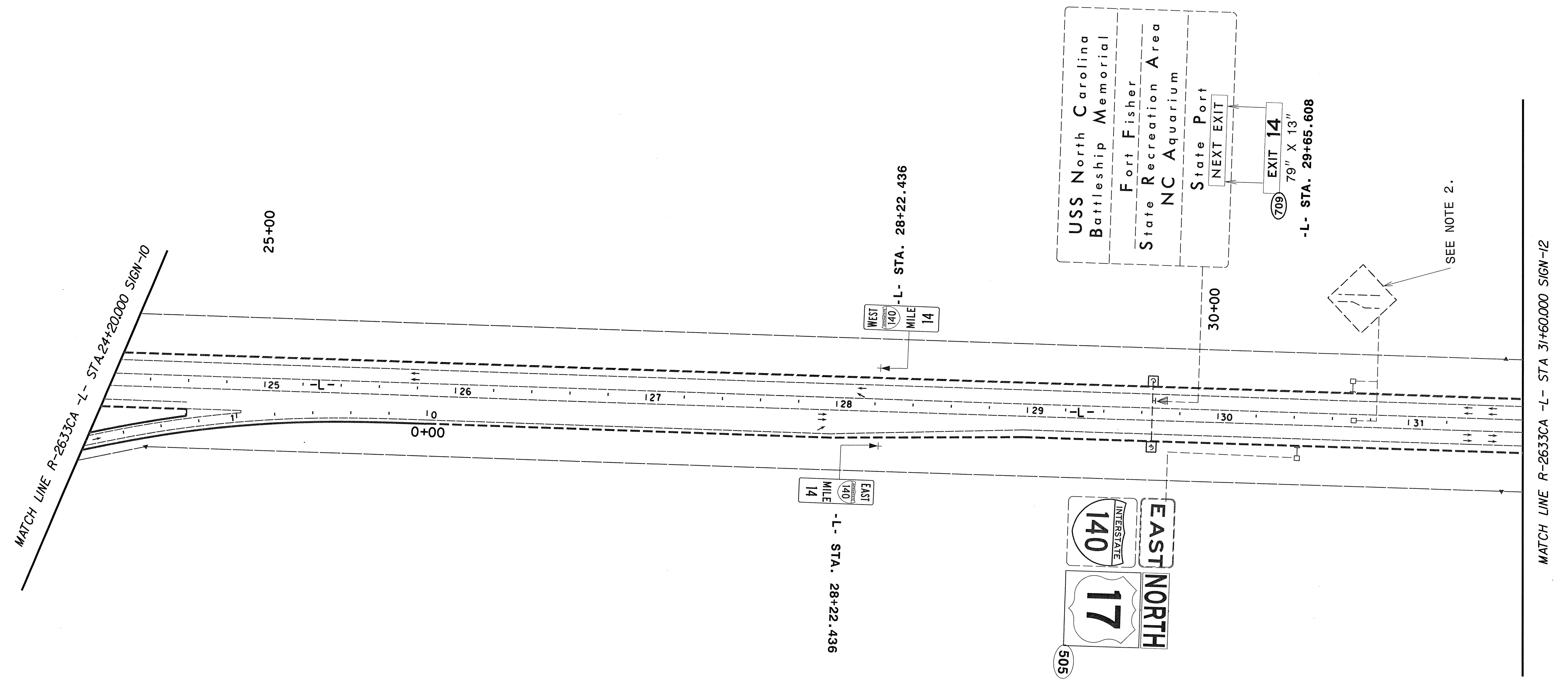
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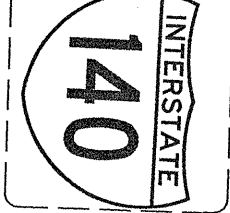
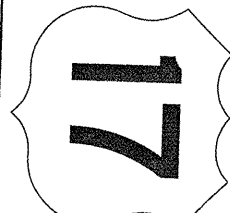

NAD 83/95


REVISIONS

8/17/99

SYTIME/DCN *****



 EAST
 NORTH


R-2633CA OFF-SITE

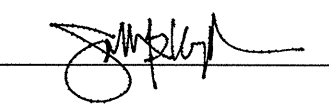

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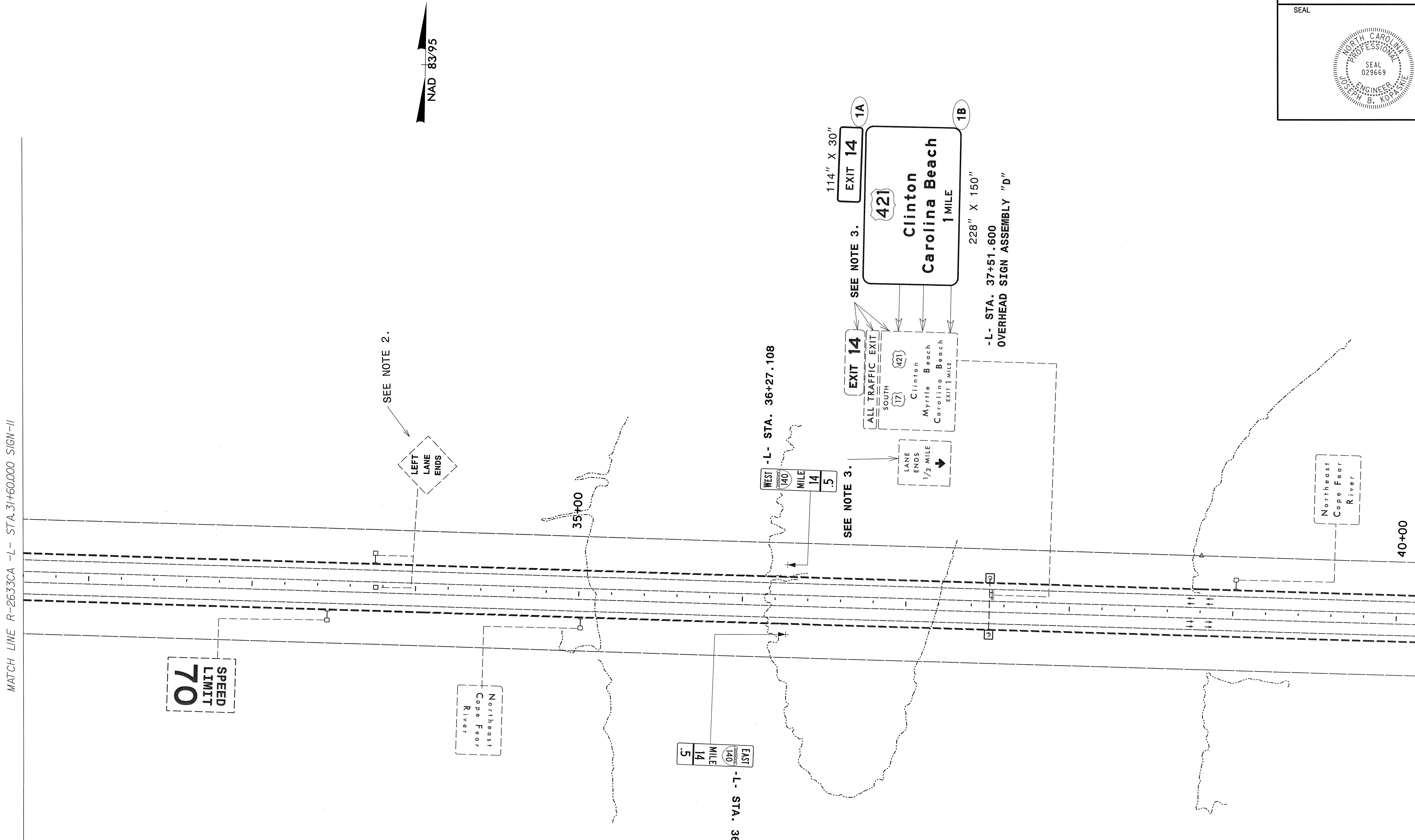
PROPOSED SIGNS

8/17/99

REVISIONS

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-12
APPROVED: 	
DATE: 5/3/13	
SEAL	
	

MATCH LINE R-2633CA -L- STA. 31+60.000 SIGN-II



NAD 83/95

NOTES

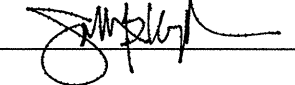
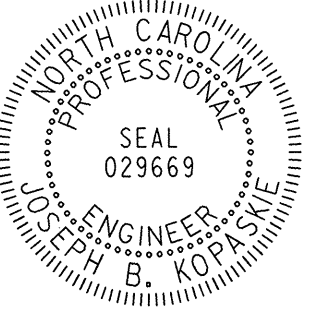
- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 3. DISPOSAL OF SIGN, A OR B (OVERHEAD)

MATCH LINE R-2633CA -L- STA. 40+20.000 SIGN-I3

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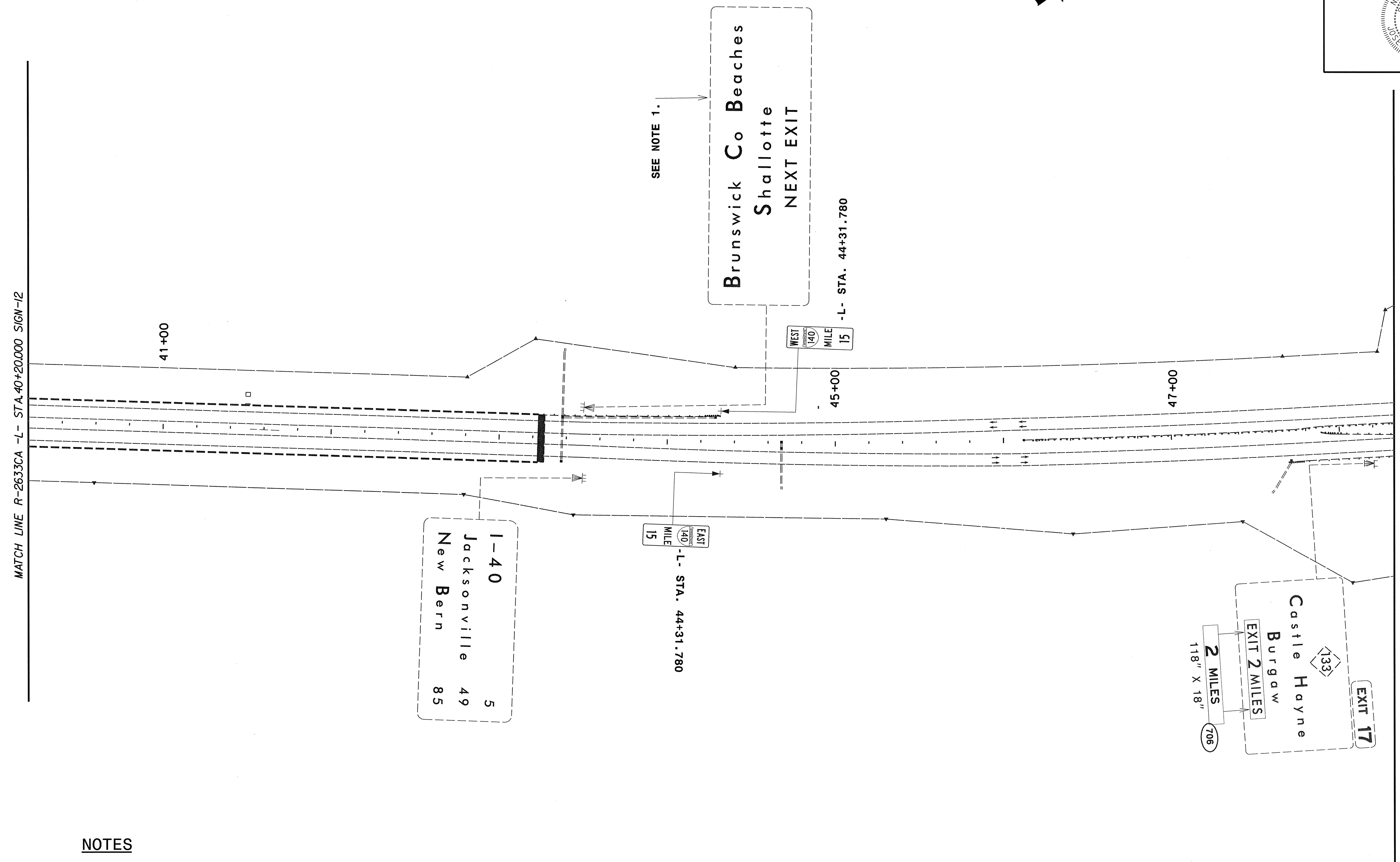
PROPOSED SIGNS
R-2633CA OFF-SITE

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-13
APPROVED: 	
DATE: 5/3/13	
SEAL	
	

REVISIONS

8/17/99

SYSTEMS DESIGN



NOTES

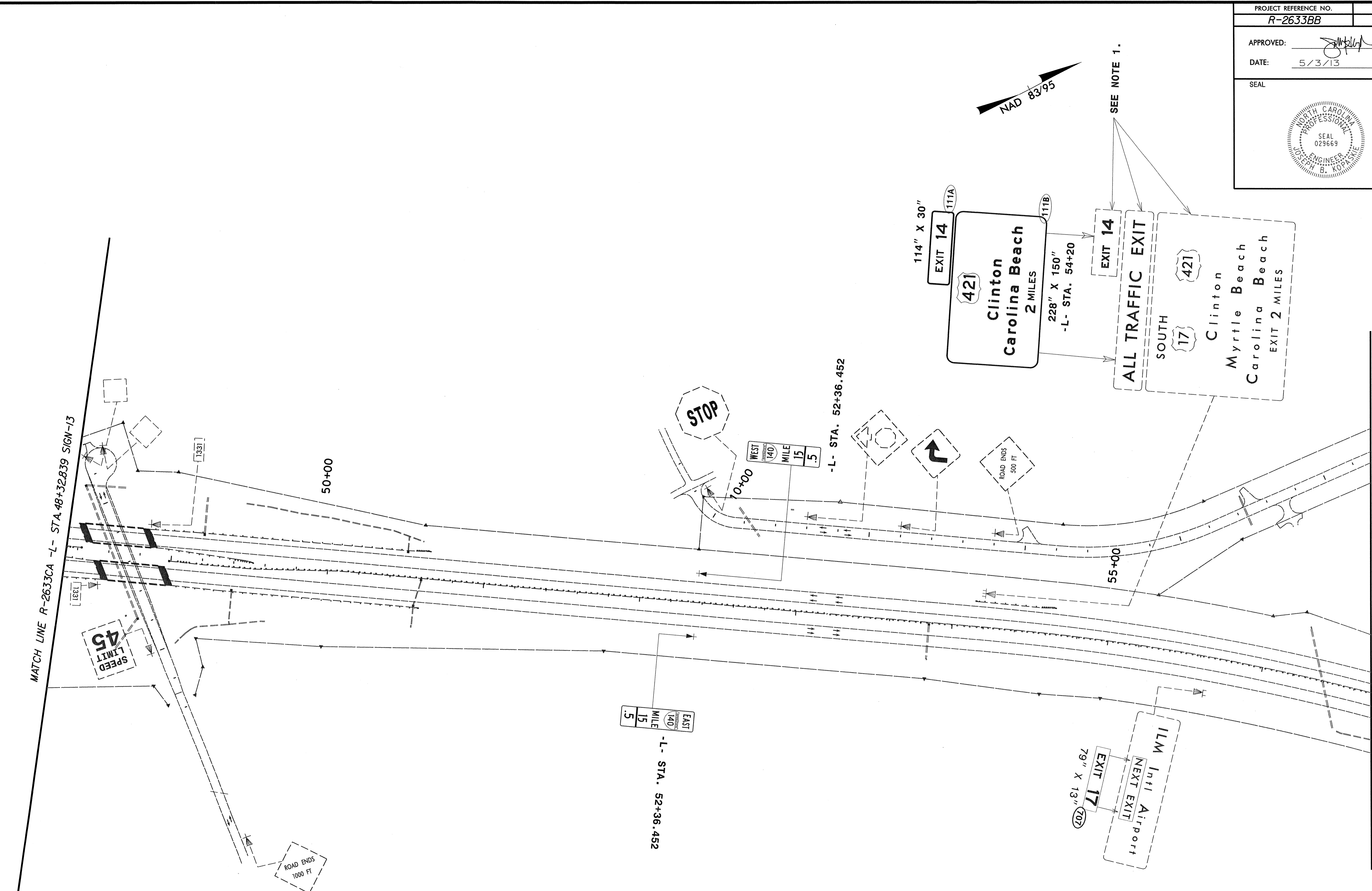
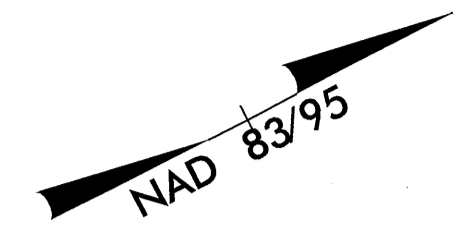
1. DISPOSAL SIGN SYSTEM, STEEL BEAM

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PROPOSED SIGNS
R-2633CA OFF-SITE

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-14
APPROVED: _____	DATE: 5/3/13
SEAL	



REVISIONS

NOTES
1. DISPOSAL SIGN SYSTEM, STEEL BEAM

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PROPOSED SIGNS
R-2633CA OFF-SITE

8/17/99
\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$USPENAL\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$

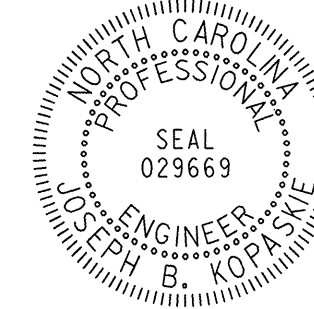
MATCH LINE R-2633CA -L- STA. 48+32.839 SIGN-13

MATCH LINE R-2633CA -L- STA. 56+71.403 SIGN-15

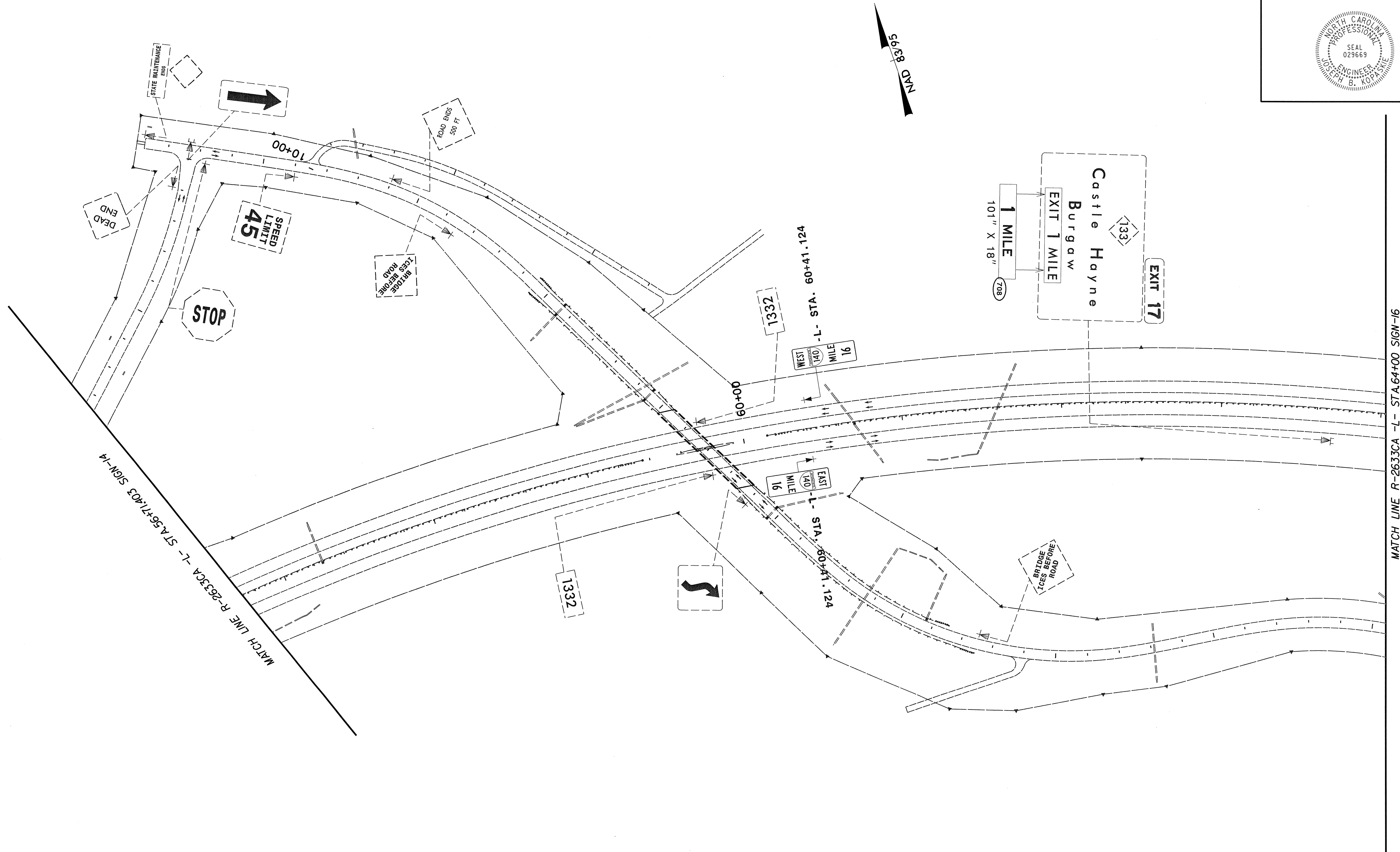
B.17/99

APPROVED: *[Signature]*
DATE: 5/3/13

SEAL



REVISIONS



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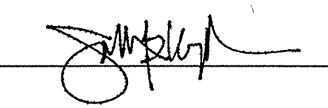

PROPOSED SIGNS
R-2633CA OFF-SITE

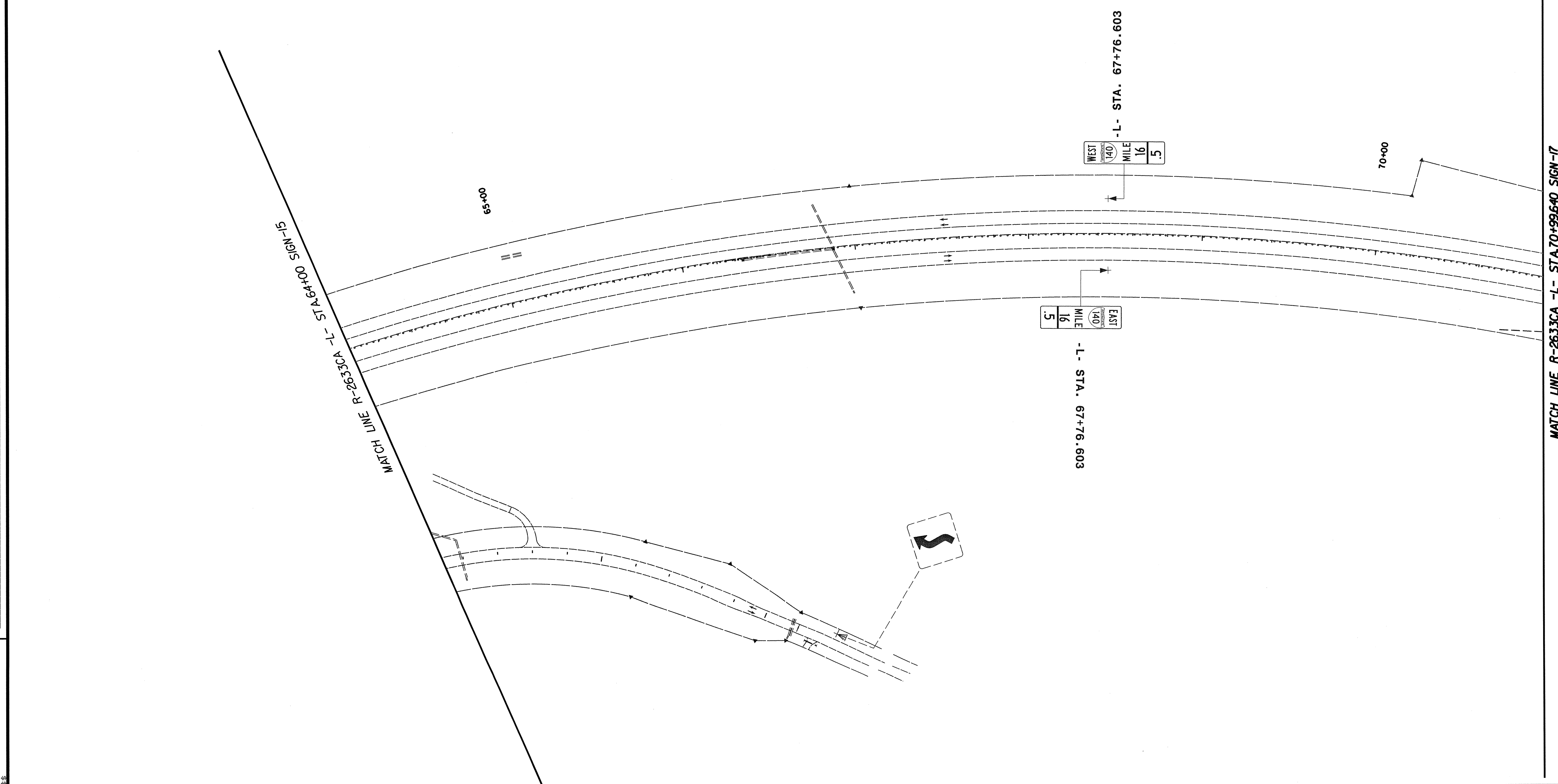
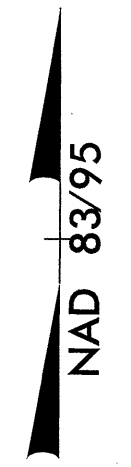

SYTIME

8/17/99

REVISIONS

CIVIL ENGINEER
STATE OF NORTH CAROLINA
NO. 02260
EXPIRES 12/31/13

PROJECT REFERENCE NO.		SHEET NO.	
R-2633BB		SIGN- 16	
APPROVED: 			
DATE: 5/3/13			
SEAL			
			

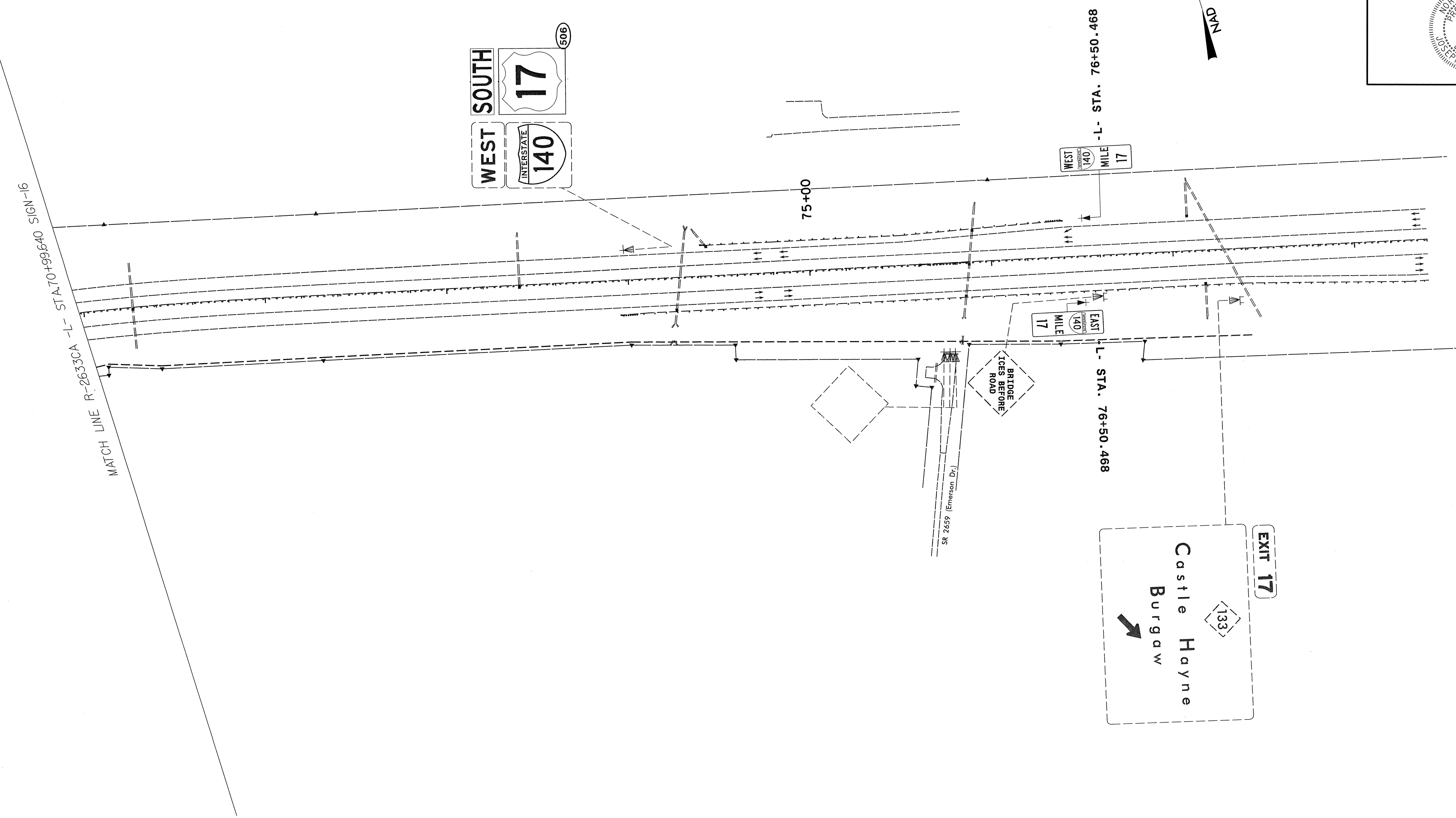

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PROPOSED SIGNS
R-2633CA OFF-SITE

MATCH LINE R-2633CA -L- STA.70+99.640 SIGN-17

NO.	DESCRIPTION

8/17/99

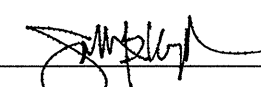




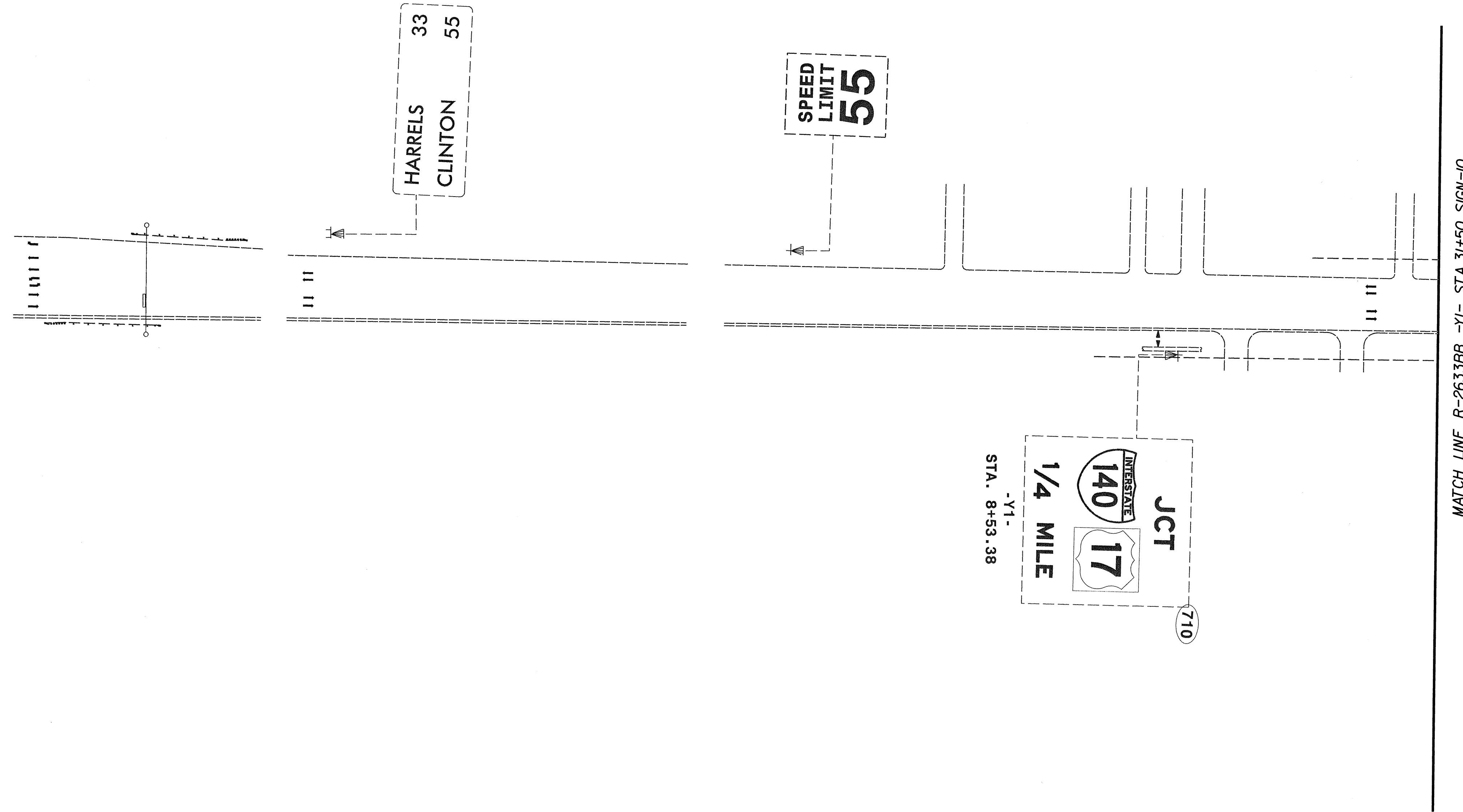
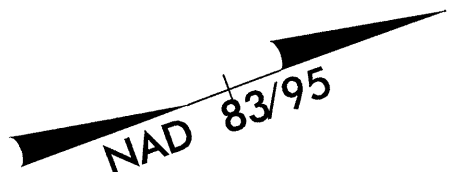
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PROPOSED SIGNS
 R-2633CA OFF-SITE

8/17/99

REVISIONS

PROJECT REFERENCE NO. R-2633BB	SHEET NO. SIGN-18
APPROVED: 	
DATE: 5/3/13	
SEAL	
	



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#SYTIME#####
#SOUND#####
#UTRAN#####
#811#####
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PROPOSED SIGNS

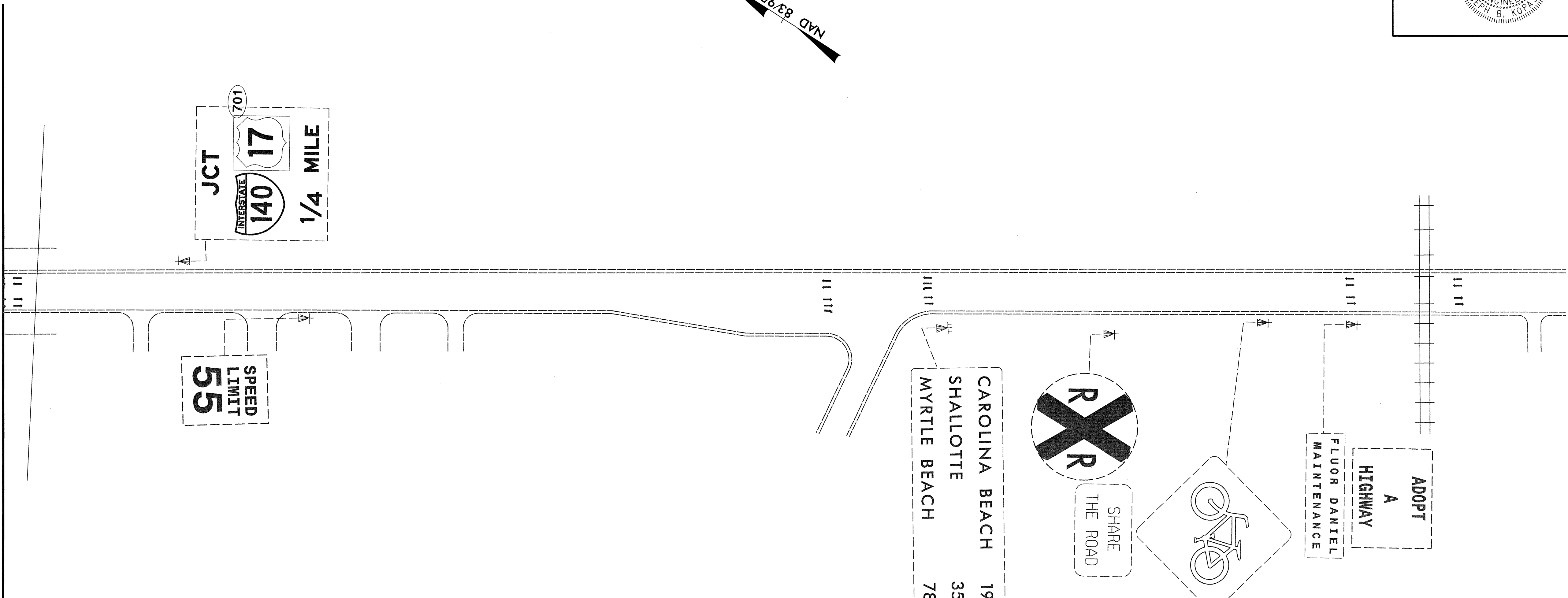
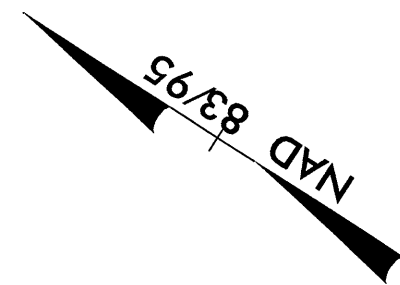
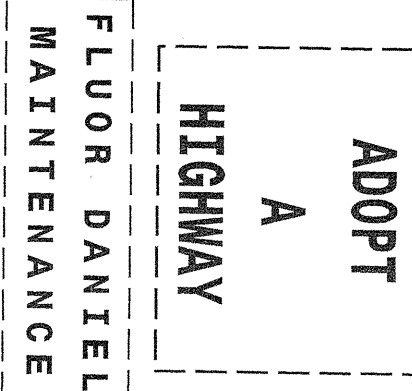
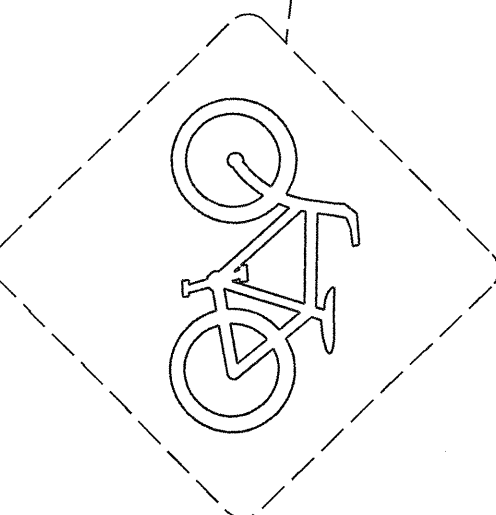
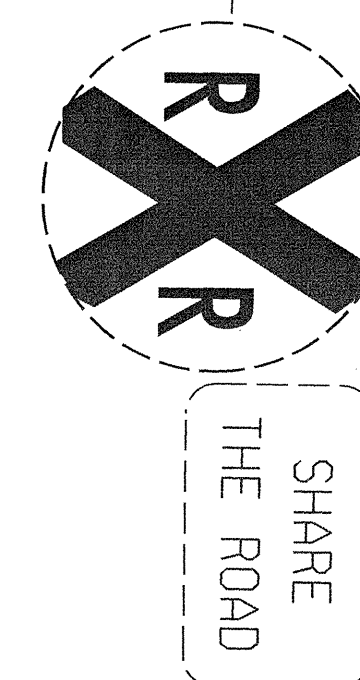
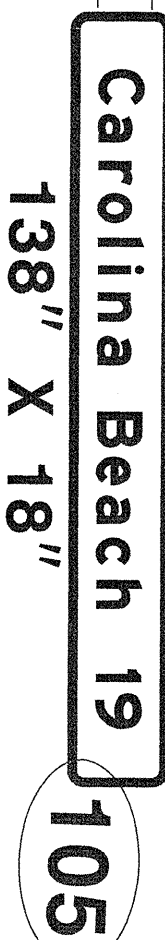
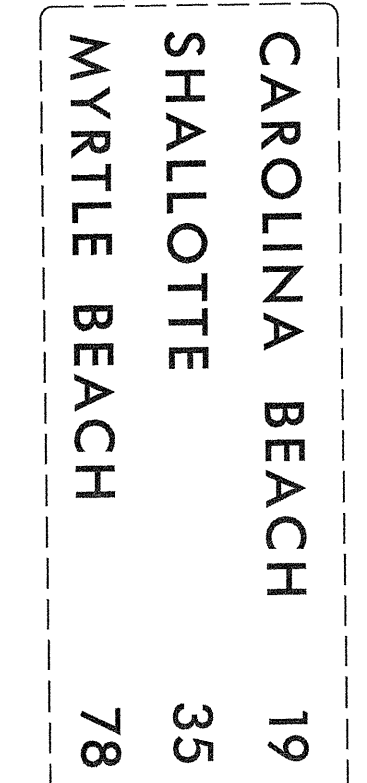
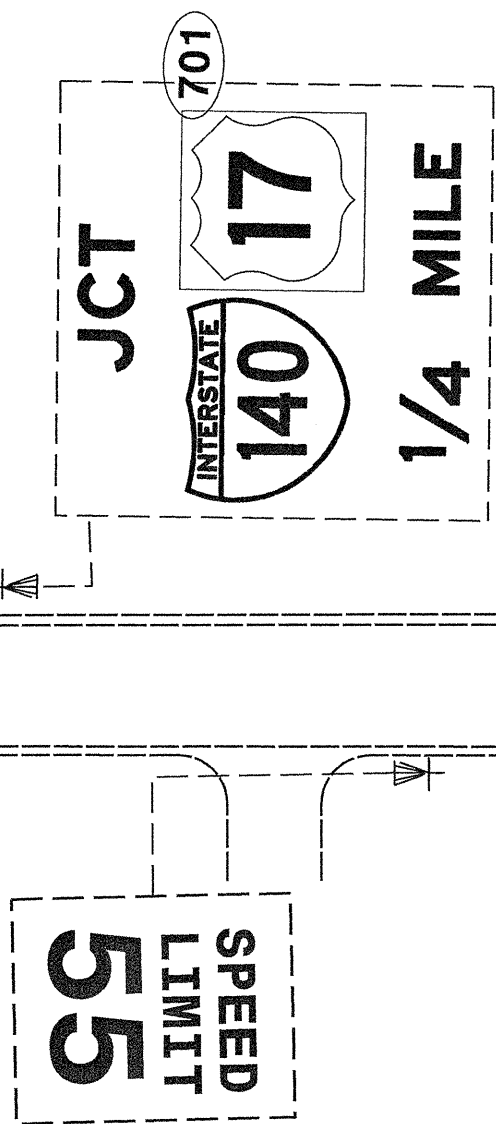
R-2633CA TO (R-2633BB) -Y1- STA 35+00

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029669 J. B. TOPALAN

REVISIONS table with columns for description and date, currently empty.

8/17/99

MATCH LINE
R-2633BB -Y1- STA 60+00
SIGN-10



NOTES

1. DISPOSAL SIGN SYSTEM, STEEL BEAM

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PROPOSED SIGNS
R-2633BB -Y1- STA 60+00 TO R-2633CA (SIGN-20)

*****NON-CONFORMANCE*****