

T.I.P.: B-2965

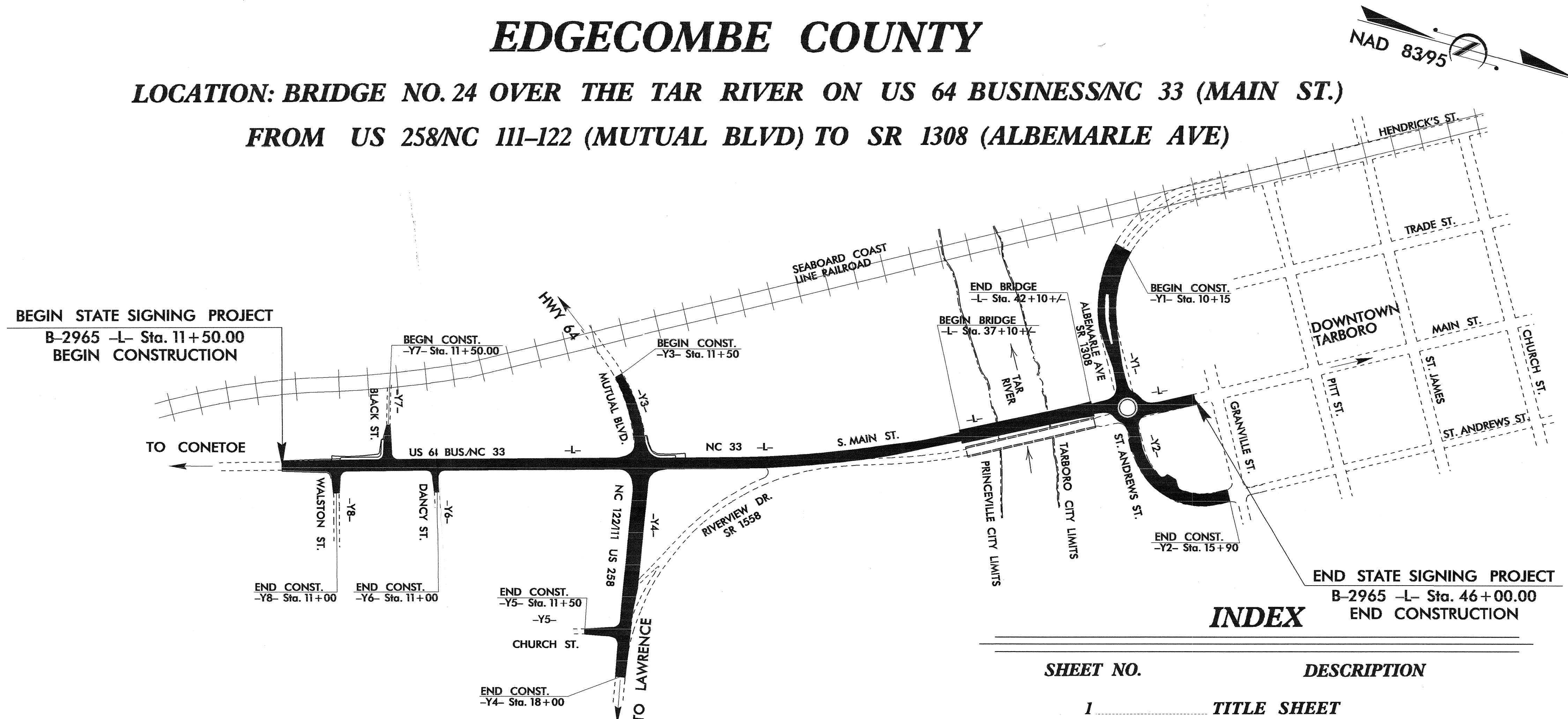
CONTRACT: C202039

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLANS
EDGEcombe COUNTY

LOCATION: BRIDGE NO. 24 OVER THE TAR RIVER ON US 64 BUSINESS/NC 33 (MAIN ST.)
FROM US 258/NC 111-122 (MUTUAL BLVD) TO SR 1308 (ALBEMARLE AVE)

TIP NO. B-2965	SHEET NO. SIGN-1
APPROVED: <i>[Signature]</i>	
DATE: 9/4/08	
SEAL	




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PLAN PREPARED BY: N.C.D.O.T. SIGNING SECTION

R. W. KING, PE SIGNING ENGINEER
A. I. ALQUDWAH, PE SIGNING PROJECT ENGINEER
D. M. EATON SIGNING PROJECT DESIGN ENGINEER
R. R. HENNEIN SIGNING TECHNICIAN

TIP NO. B-2965	SHEET NO. SIGN-2
APPROVED: <i>[Signature]</i>	
DATE: 9/4/08	
SEAL	
	

SIGNS SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION.....	1	C.Y.
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM.....	548	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL.....	1953	L.F.
4096000000	904	SIGN ERECTION, TYPE D.....	9	EA.
4102000000	904	SIGN ERECTION, TYPE E.....	80	EA.
4108000000	904	SIGN ERECTION, TYPE F.....	19	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED).....	1	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE D.....	2	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E.....	1	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL.....	66	EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD.....	13	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL.....	4	EA.

**ROADWAY STANDARD DRAWINGS
APPLICABLE TO THESE SIGNING PLANS**
901.10 901.50
901.70 904.10
904.50

General Notes:

- . SIGNS FURNISHED BY STATE
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKINGS. SEE TRAFFIC CONTROL PLANS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE GRADE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARDRAIL DETAILS.
- . SEE CHART FOR PLACEMENT OF WARNING SIGNS. DISTANCES SHOWN IN MINIMUM ROAD COLUMNS ARE FOR LEVEL ROADWAYS. MAKE CORRECTIONS FOR GRADES. IF 48-INCH (1219 MM) SIGNS ARE USED, THE LEGIBILITY DISTANCE MAY BE INCREASED TO 200 FEET (61 M). THIS WOULD ALLOW REDUCING THE CHART SPECIFIED DISTANCE BY 75 FEET (23 M).
- . IF THE BRIDGE IS OVER A MAJOR STREAM OR RIVER, A SIGN FOR THE NAME OF THE STREAM OR RIVER SHOULD BE INSTALLED AT EACH APPROACH. THESE DESIGNS WILL BE COMPLETED BY THE SIGNING SECTION UPON REQUEST.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.

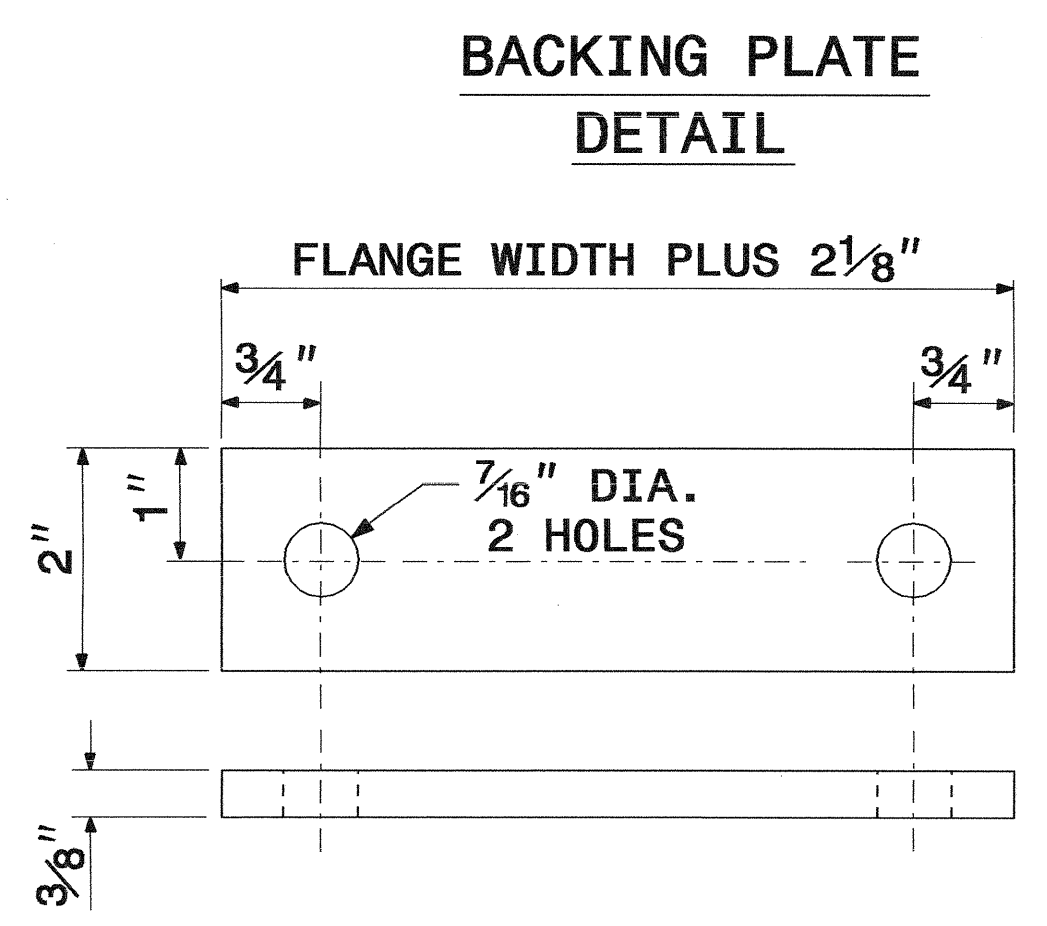
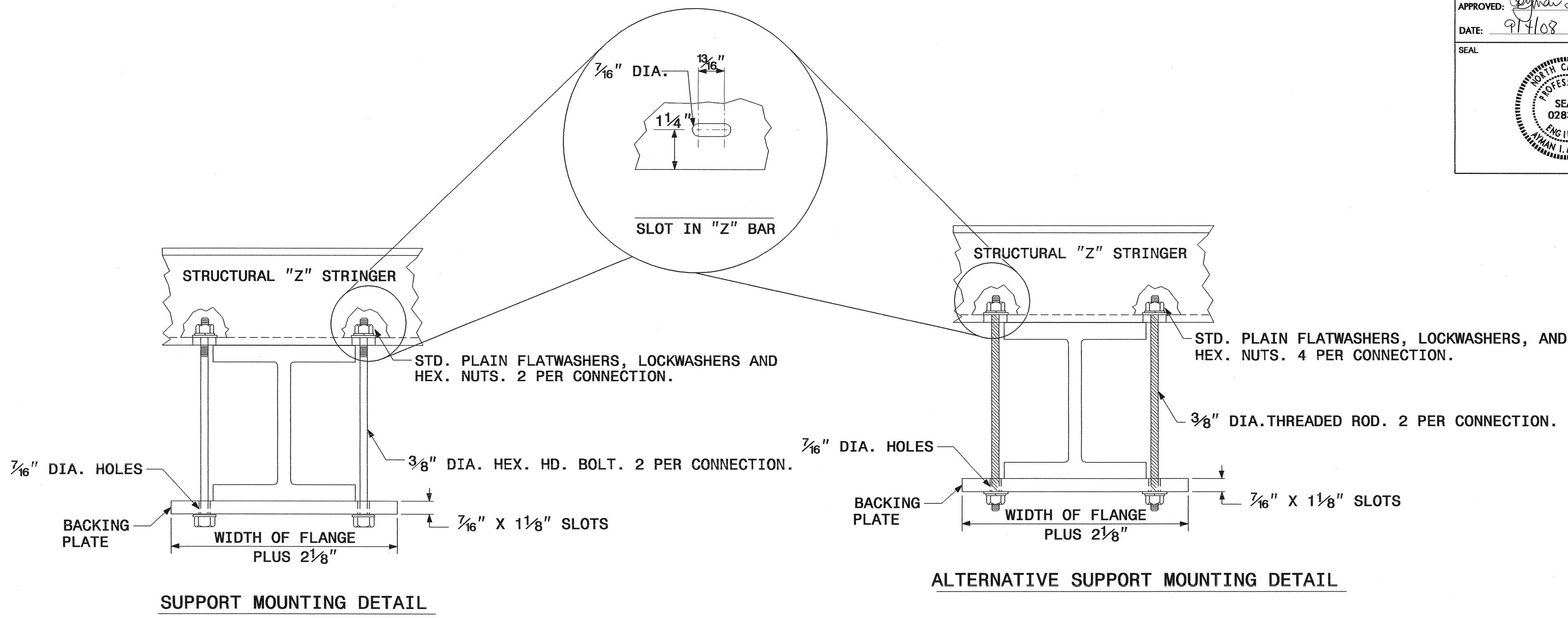
WARNING SIGNS PLACEMENT CHART

POSTED OR 85TH PERCENTILE SPEED MPH (KMH)	MUTCD DISTANCE FT (M)	SUGGESTED LOCATION FT (M)	SUGGESTED MAXIMUM FT (M)
30 (50)	450 (140)	475 (145)	575 (175)
35 (55)	550 (170)	575 (175)	675 (205)
40 (65)	650 (200)	675 (205)	775 (235)
45 (70)	750 (230)	775 (235)	875 (270)
50 (80)	850 (260)	875 (270)	975 (300)
55 (90)	950 (290)	975 (300)	1075 (330)
60 (95)	1100 (335)	1125 (345)	1225 (375)
65 (105)	1200 (365)	1225 (375)	1325 (405)
70 (115)	1250 (380)	1275 (390)	1375 (420)

Pay Item Notes:

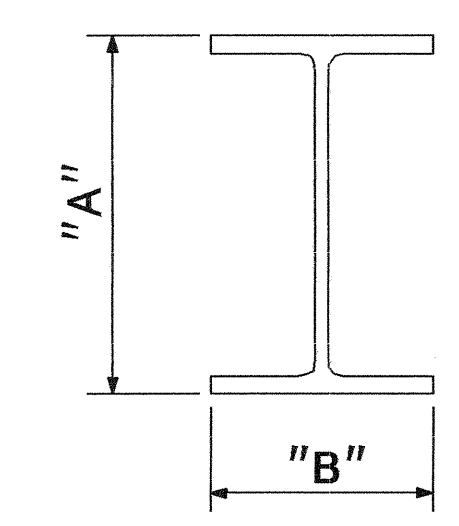
1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2	DISPOSAL OF SIGN SYSTEM, WOOD
3	DISPOSAL OF SUPPORT, U-CHANNEL
4	SIGN ERECTION, RELOCATE SIGN TYPE D
5	SIGN ERECTION, RELOCATE SIGN TYPE E

**SUMMARY OF QUANTITIES
&
NOTES**

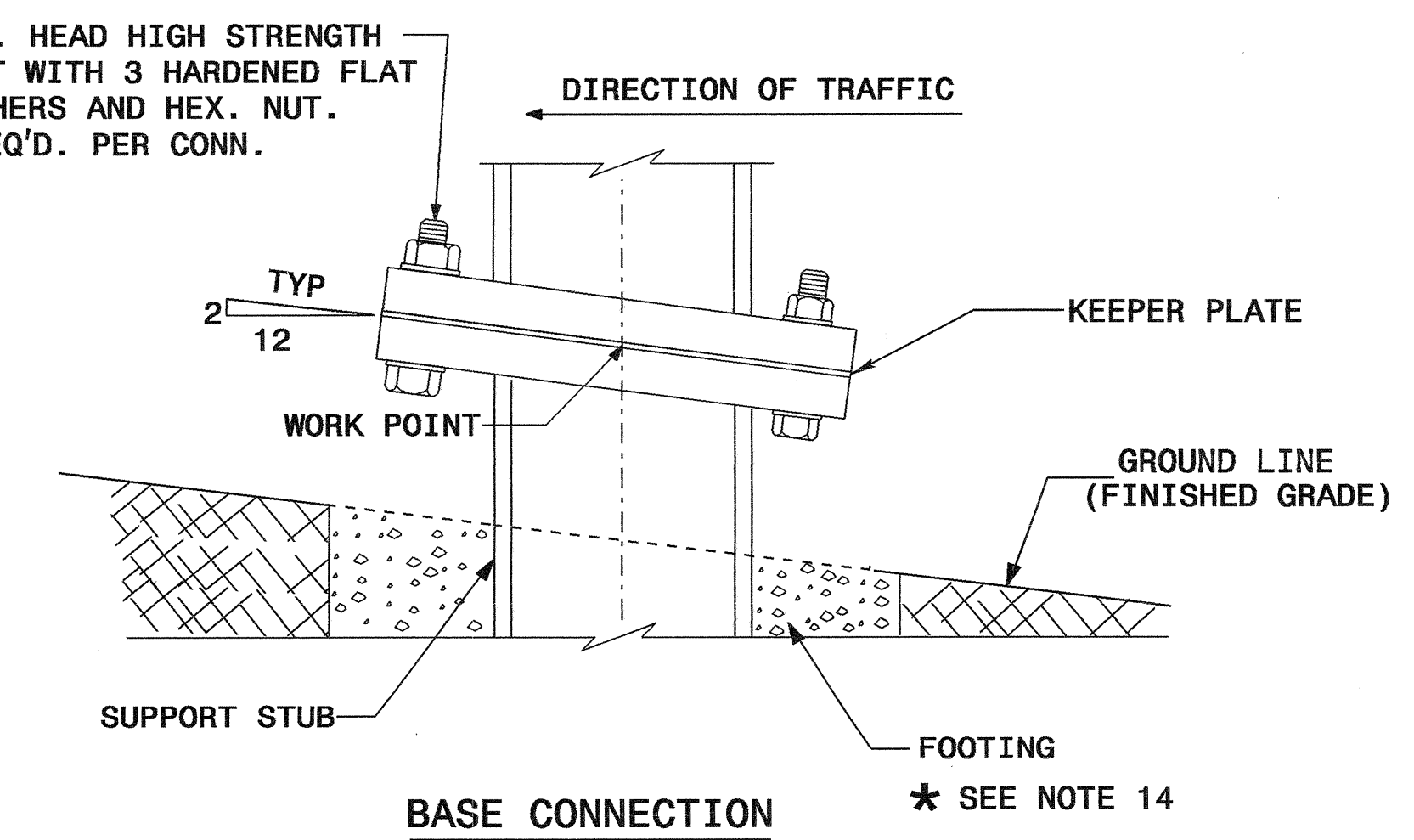
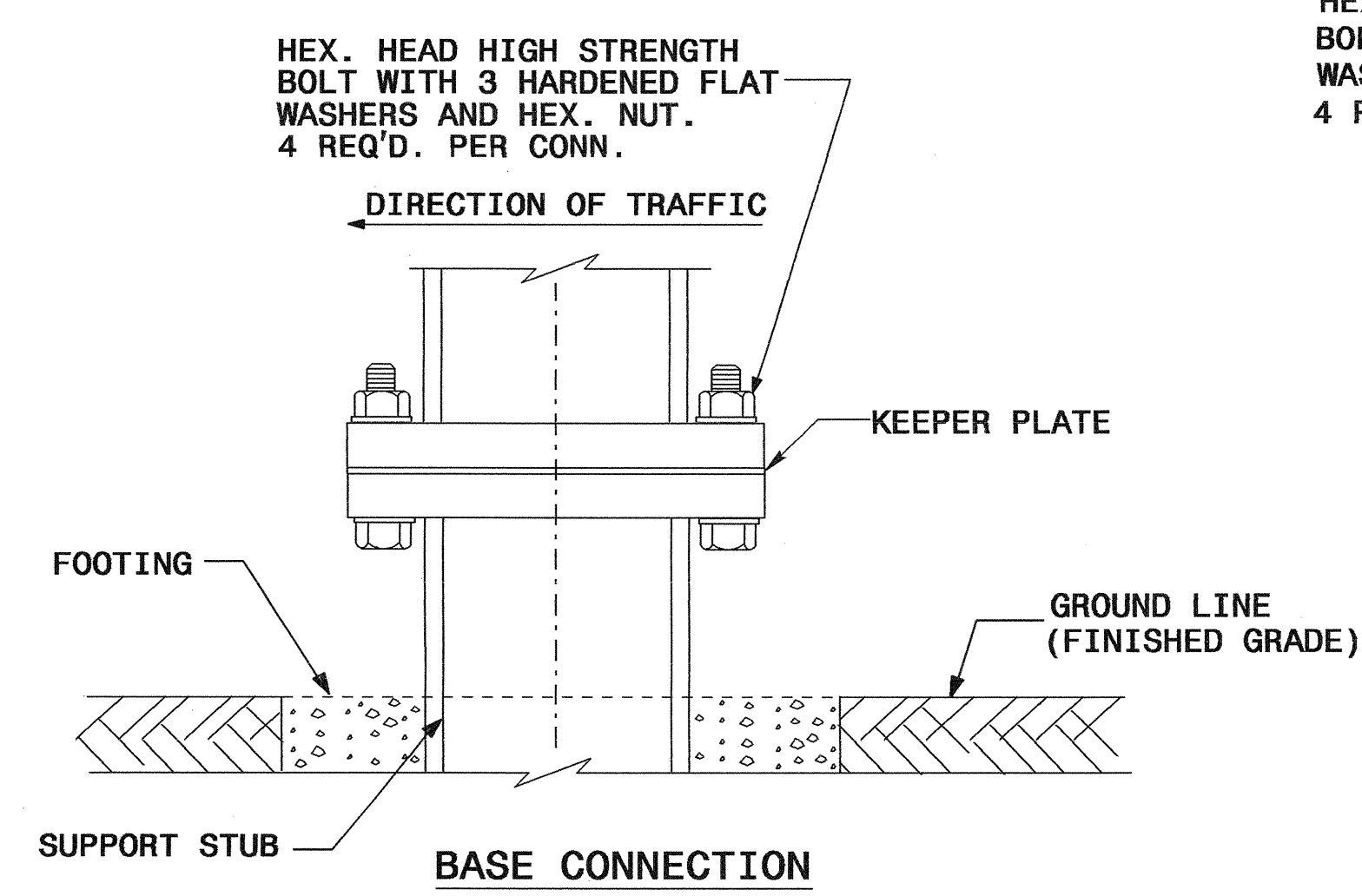
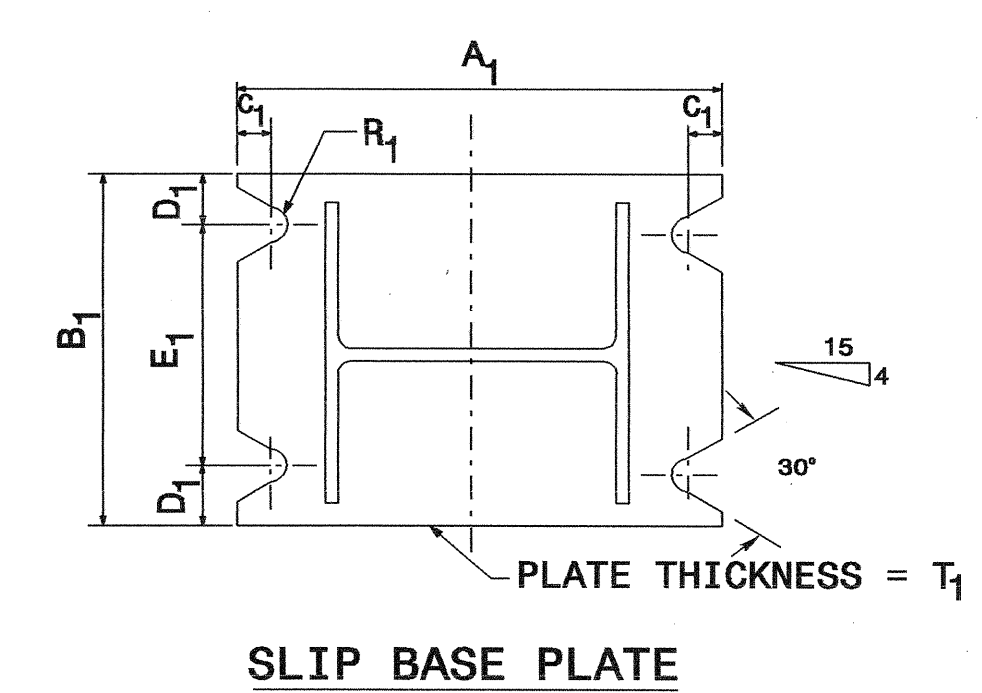
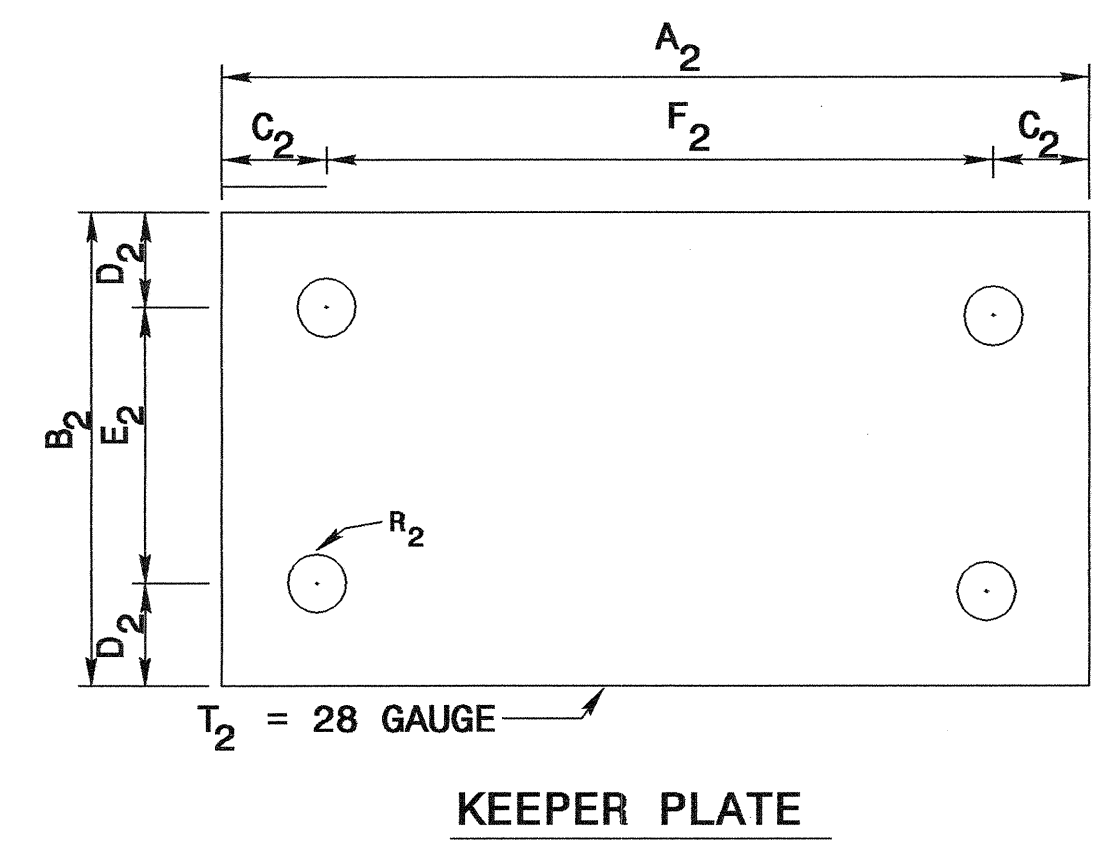
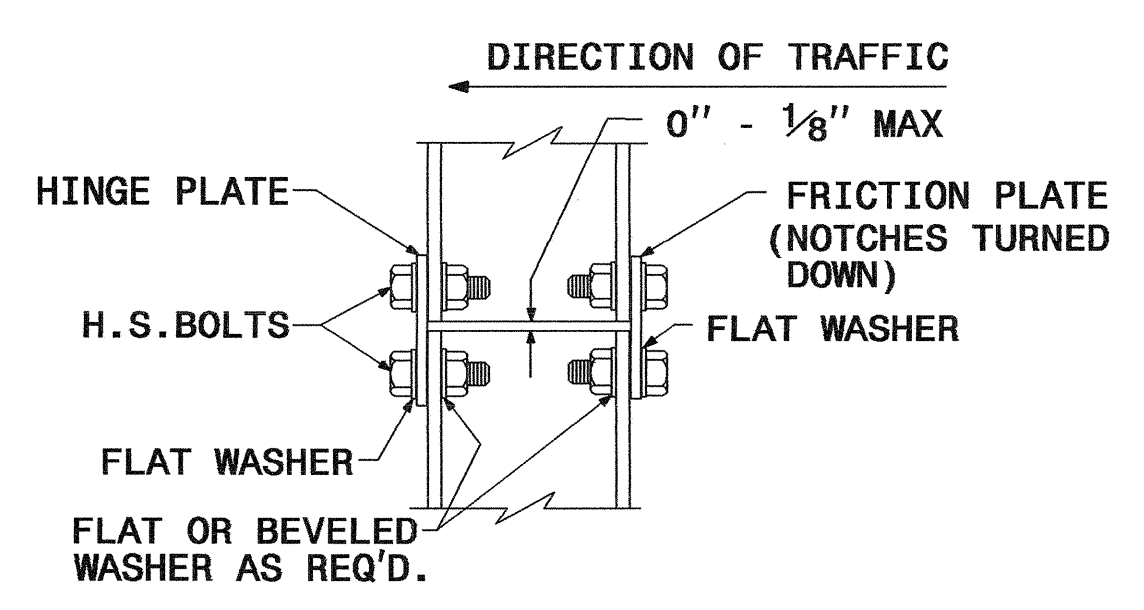
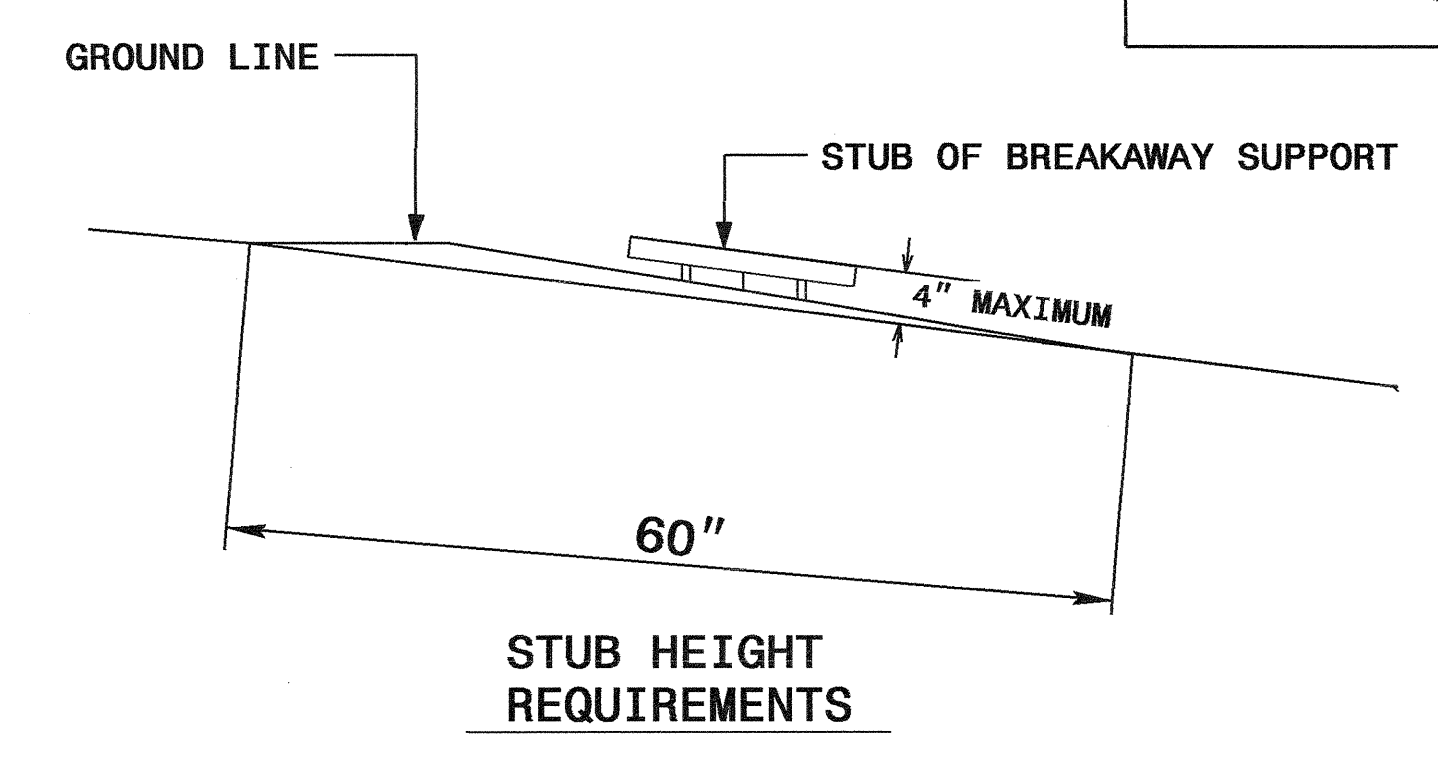
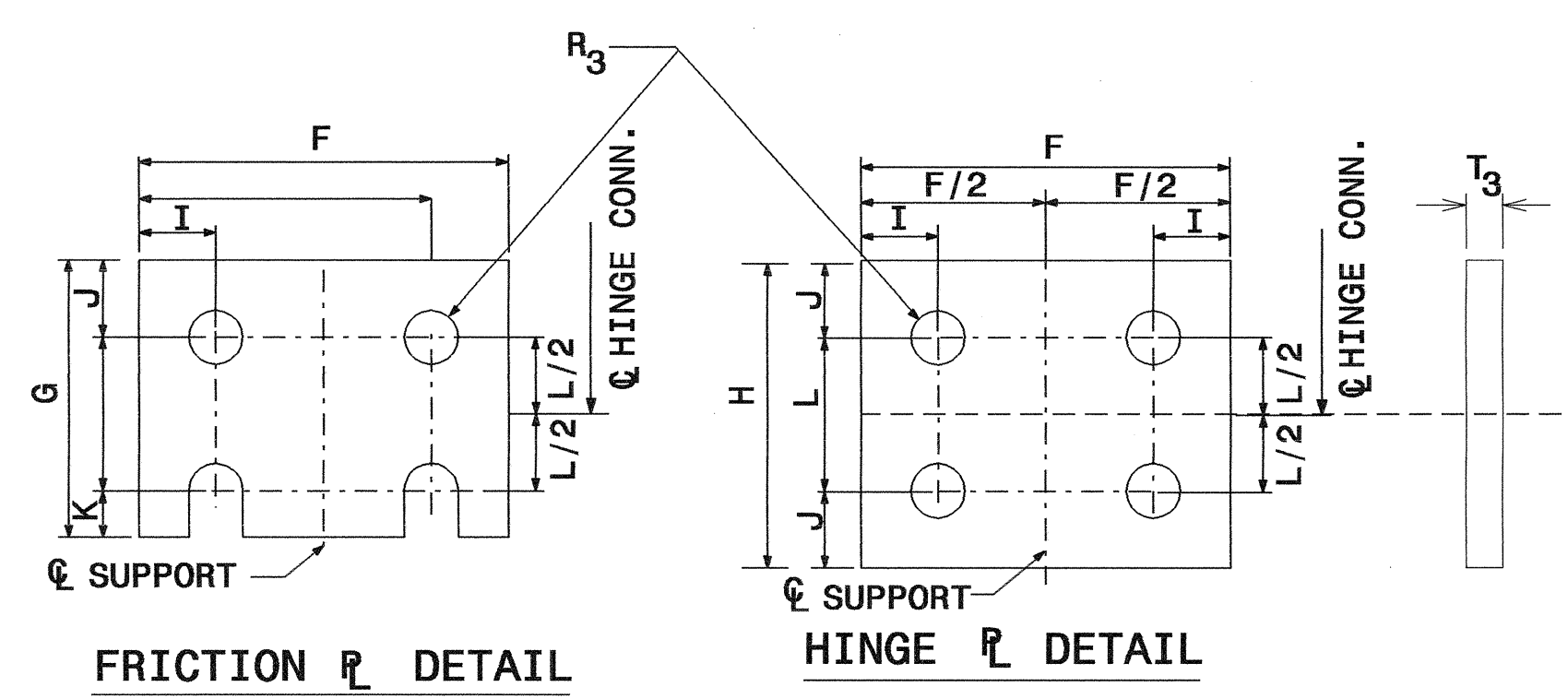
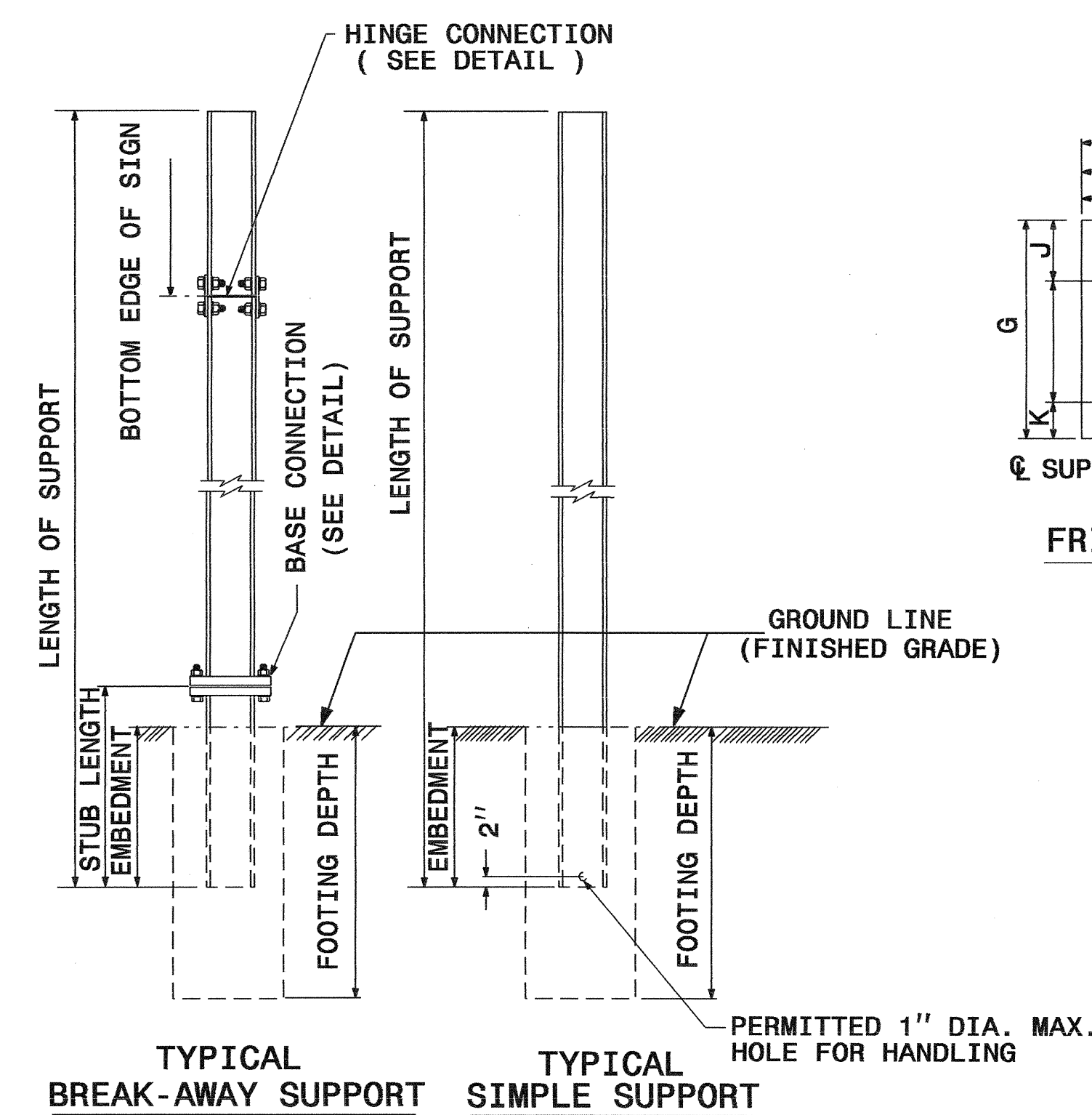


1. THE SUPPORT MOUNTING DETAIL SHOWS A "W" OR "S" BEAM. THIS DETAIL IS ALSO USED FOR MOUNTING SIGNS TO WOOD OR SQUARE TUBE SUPPORTS.
2. USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS IN ACCORDANCE WITH ASTM A123.
3. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR TYPE OF MATERIAL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

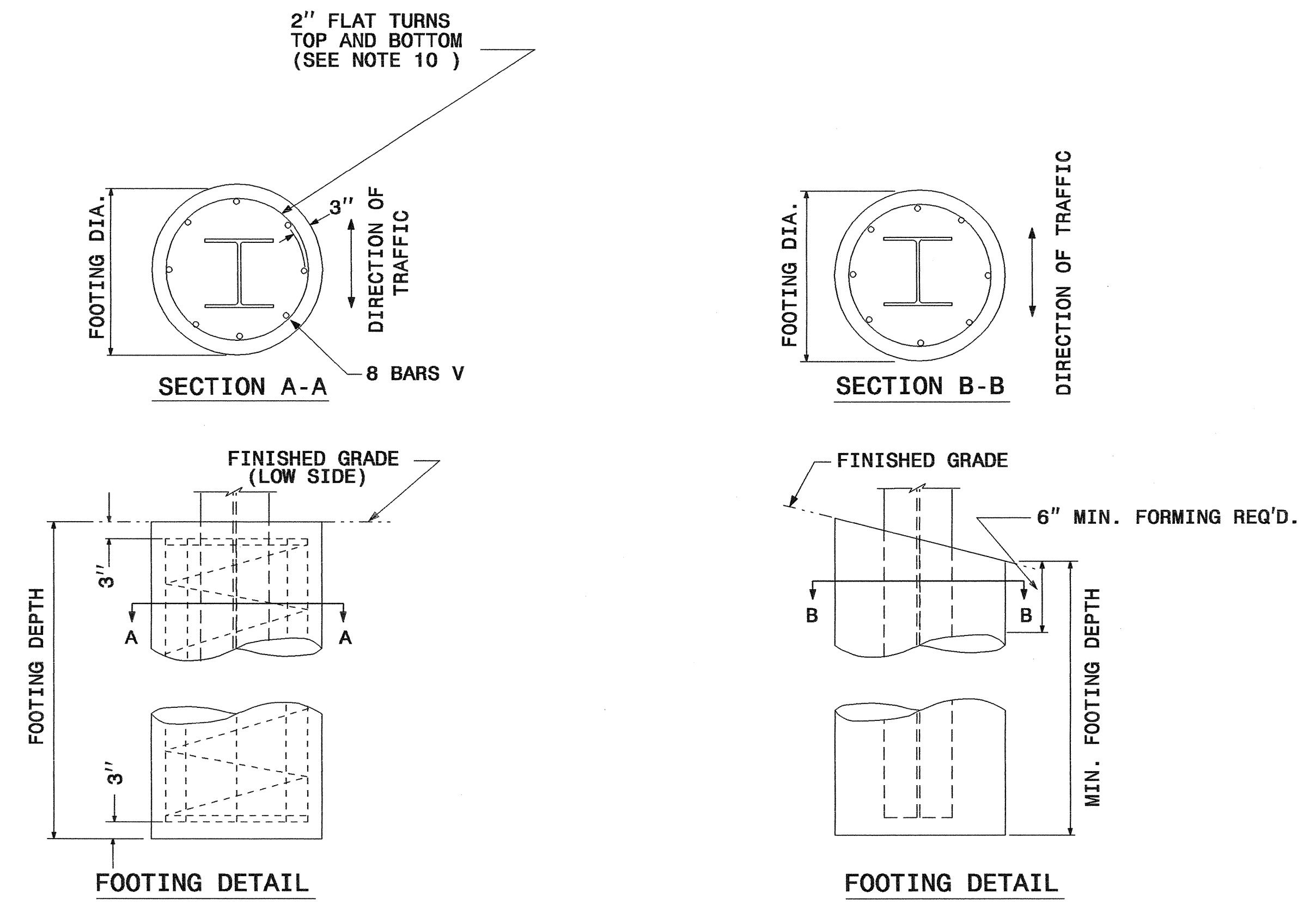


SEE SHEET SIGN-6 FOR DIMENSIONS.
SEE SHEET SIGN-7 FOR NOTES.

GROUND MOUNTED SIGN SUPPORT

TIP NO. B-2965	SHEET NO. SIGN-5
APPROVED: <i>[Signature]</i>	
DATE: 9/14/08	
SEAL	
	


BEAM SHAPE	SLIP BASE PLATE DATA								KEEPER PLATE DATA							HINGE CONNECTION DATA							BREAK AWAY SUPPORT WEIGHT CONSTANT LBS.			
	BOLT SIZE	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.X1 1/4"	2 1/4"	3 1/2"	4"	1 1/2"	1"	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.X1 1/4"	2 5/8"	3 1/2"	4"	1 1/2"	1"	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.X1 1/4"	4"	3 1/2"	4"	3/4"	1"	1 1/2"	2"	9/32"	3/8"	32
W6X12	5/8"DIA.X3 3/4"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/4"	11/32"	11"	5"	1 1/4"	7/8"	3 1/4"	11/32"	28 GAUGE	5/8"DIA.X2 1/4"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	11/32"	3/8"	39
W6X16	5/8"DIA.X3 3/4"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/2"	11/32"	12"	6"	1 1/4"	7/8"	4 1/4"	11/32"	28 GAUGE	5/8"DIA.X2 1/2"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	11/32"	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"	11/32"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	11/32"	28 GAUGE	5/8"DIA.X2 1/2"	5 1/4"	4"	4 1/2"	1"	1 1/8"	5/8"	2 1/4"	11/32"	1/2"	70
W8X21	3/4"DIA.X 4 1/4"	14"	7"	1 1/2"	1"	5"	1 1/2"	13/32"	14"	7"	1 1/2"	1"	5"	13/32"	28 GAUGE	3/4"DIA.X2 3/4"	5 1/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	1/2"	73
W10X22	3/4"DIA.X 4 1/4"	16"	8"	1 1/2"	1"	6"	1 1/2"	13/32"	16"	8"	1 1/2"	1"	6"	13/32"	28 GAUGE	3/4"DIA.X2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	1/2"	119
W10X26	3/4"DIA.X4 3/4"	16 1/2"	8"	1 1/2"	1"	6"	1 3/4"	13/32"	16 1/2"	8"	1 1/2"	1"	6"	13/32"	28 GAUGE	3/4"DIA.X2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	5/8"	140
W12X26	3/4"DIA.X4 3/4"	18 1/2"	9"	1 1/2"	1"	7"	1 3/4"	13/32"	18 1/2"	9"	1 1/2"	1"	7"	13/32"	28 GAUGE	3/4"DIA.X2 3/4"	6 1/2"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	5/8"	176
W14X30	1"DIA.X 5"	22"	9"	2"	1 1/2"	6"	2"	17/32"	22"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA.X3"	6 3/4"	7"	8"	1 1/4"	2"	1"	4"	17/32"	5/8"	205
W16X31	1"DIA.X 5"	24"	9"	2"	1 1/2"	6"	2"	17/32"	24"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA.X3 1/4"	5 1/2"	7"	8"	1 1/4"	2"	1"	4"	17/32"	3/4"	223
W18X35	1"DIA.X 5"	25"	9"	2"	1 1/2"	6"	2"	17/32"	25"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA.X3 1/4"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	3/4"	243
W18X40	1"DIA.X5 1/2"	26"	9"	2"	1 1/2"	6"	2 1/4"	17/32"	26"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA.X3 3/4"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	7/8"	278
W21X44	1"DIA.X5 1/2"	29"	9"	2"	1 1/2"	6"	2 1/2"	17/32"	29"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA.X3 3/4"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	17/32"	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-7 FOR NOTES.

GROUND MOUNTED SIGN SUPPORT

TIP NO. B-2965	SHEET NO. SIGN-6
APPROVED: <i>Ahman I. Al-Qudus</i>	
DATE: 9/4/08	
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 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.

**GROUND MOUNTED
SIGN SUPPORT**

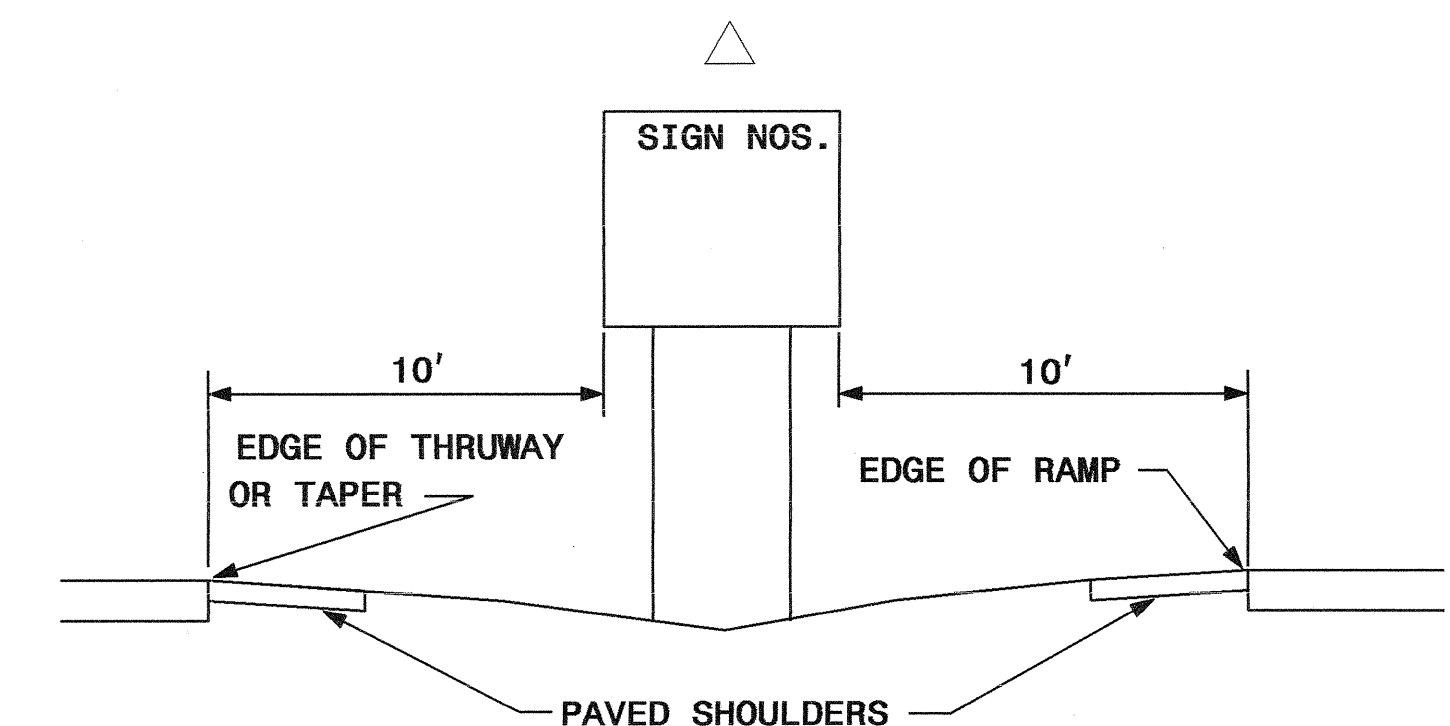
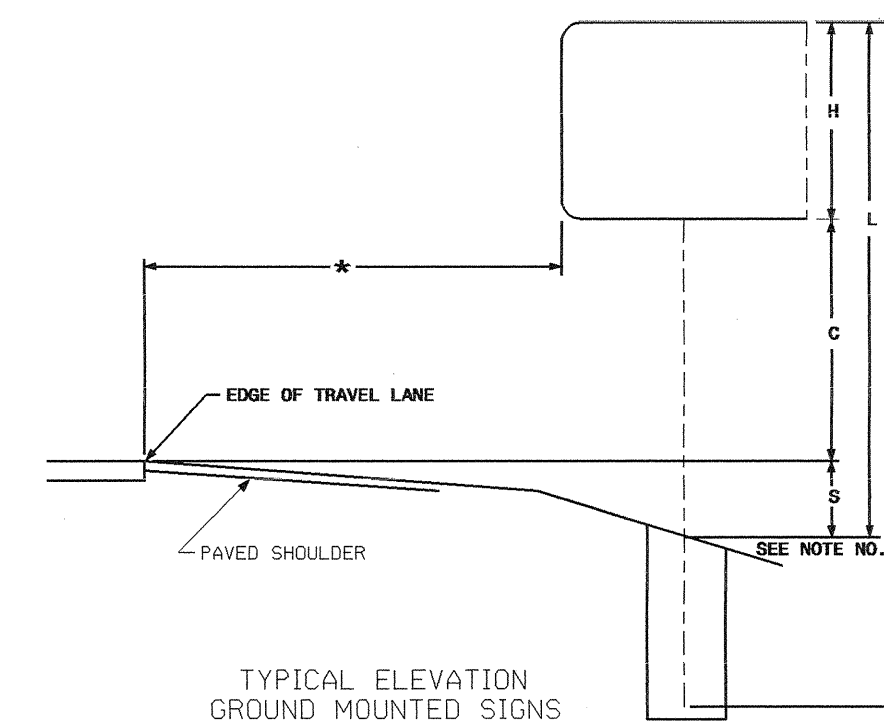
TIP NO. B-2965	SHEET NO. SIGN-7
APPROVED: <i>[Signature]</i>	
DATE: 9/14/08	
SEAL	
	

SUPPORT CHART

SIGN NO.	SIGN TYPE	SIGN SIZE (in.)			ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR. * (ft.)	LENGTH (ft)				LEFT SUPPORT (ft)			RIGHT SUPPORT (ft)			FOOTING DIAMETER (ft.)	FOOTING DEPTH (ft.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REINF. FTGS. (c.y.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
		w	x	h								SNS H	HT H	MTG HT C	EMBED-MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH					
101	A	150	X	96	STA 36+00	2	W6x12	S	N/A	N/A	12.50	8.00	7.00	5.5	1.39	16.39	21.89	3.22	18.22	23.72	1.5	6	547.32	0.79		
																						TOTAL	TOTAL			
																						547.32	0.79			
USE:																						548	1			

NOTES

1. DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.
2. 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
3. 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.



TYPE "A" GROUND MOUNTED SIGNS

TIP NO. B-2965	SHEET NO. SIGN-8
APPROVED: <i>[Signature]</i>	
DATE: 9/4/08	
SEAL	

SIGN NUMBER: 101 TYPE: A QUANTITY: 1 SIGN WIDTH: 150" HEIGHT: 96" TOTAL AREA: 100.0 Sq. Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 12" NO. Z BARS: 3 LENGTH: 142.0	BACKG COLOR: Green COPY COLOR: White <table border="1"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr> <td>NC242</td> <td>53</td> <td>67.5</td> <td>24</td> <td>24</td> </tr> <tr> <td></td> <td>49.7</td> <td>4.5</td> <td>55.4</td> <td>48</td> </tr> </table>	SYMBOL	X	Y	WID	HT	NC242	53	67.5	24	24		49.7	4.5	55.4	48	DESIGN BY: R. HENNEIN PROJECT ID: B-2965 CHECKED BY: DIV: 4 DATE: Sep 03, 2008
SYMBOL	X	Y	WID	HT													
NC242	53	67.5	24	24													
	49.7	4.5	55.4	48													

USE NOTES:
 1. Legend and border shall be direct applied Grade C 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 C sheeting.

BORDER R=12" TH=0.75" Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS


Letter spacings are to start of next letter

	W	E	S	T																	Series/Size		
83	6.2	4.3	4.6	3.7	48.2																D 2000		
																						18.8	
	M	a	i	n	S	t																D 2000	
63	5.7	4.6	2.2	3.5	6	4.4	2.4	58.2														D 2000	
																							28.8
	S	t	.																				D 2000
122.8	4.4	2.7	1.1	18.9																		D 2000	
																							8.2
	A	l	b	e	m	a	r	l	e														D 2000
7.2	5.9	2.2	4.3	4.4	6.8	4.6	3	1.9	3.5	106.3												D 2000	
																							36.5
	A	n	d	r	e	w	s																D 2000
111.1	5.9	4.4	4.8	2.8	3.9	7.1	2.8	7.2														D 2000	
																							31.7
	A	v	e																				D 2000
18.6	5.4	4.7	3.5	117.7																		D 2000	
																							13.7
	S	t																					D 2000
123.5	4.4	2.4	19.6																			D 2000	
																							6.8

FILENAME: signdesign NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" SIGNS

TIP NO. B-2965	SHEET NO. SIGN-9
APPROVED: <i>[Signature]</i>	
DATE: 9/14/08	
SEAL	

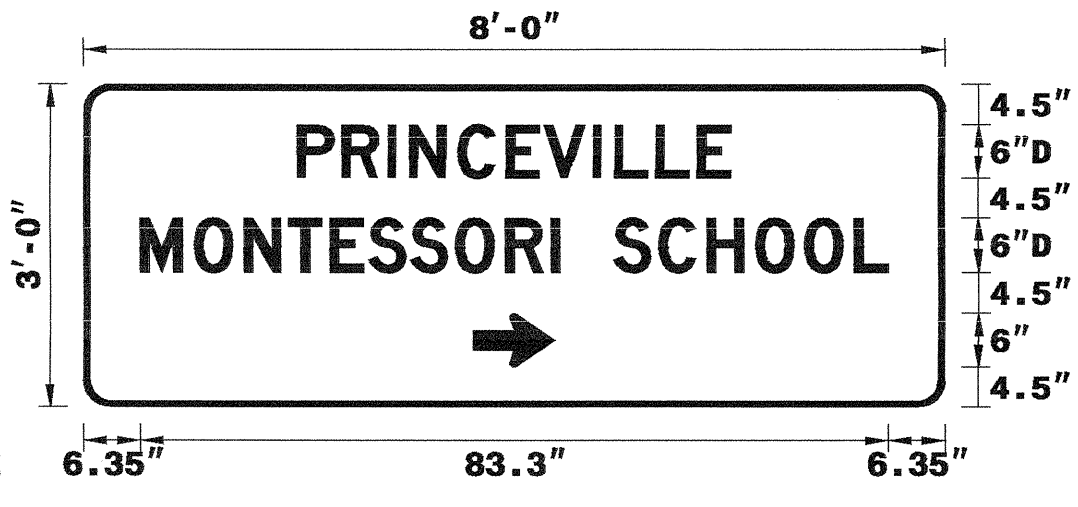


SIGN NUMBER: 301
TYPE: D
QUANTITY: 1
SIGN WIDTH: 96"
HEIGHT: 36"
TOTAL AREA: 24.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADIUS: 3"
NO. Z BARS: LENGTH:

SYMBOL	X	Y	WID	HT
ARUP	43.5	4.5	6	9

BACKG COLOR: Green
COPY COLOR: White
MATERIAL: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R. HENNEIN
PROJECT ID: B-2965
CHECKED BY: DIV: 4
DATE: Sep 02, 2008



BORDER R=3" TH=0.75"
MOUNT ON TWO "U" POSTS

USE NOTES:
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													Series/Size						
													Text Length						
P	R	I	N	C	E	V	I	L	L	E			D 2000						
23.9	5	5.1	2.4	5.4	4.2	5.5	2.4	4.6	4.6	3.7	23.9		48.3						
M	O	N	T	E	S	S	O	R	I	S	C	H	O	O	L	D 2000			
6.3	6	5.6	5	4.6	4.3	4.7	5	5.6	5.1	1	6	5	5.4	5.4	5.5	5.6	3.7	6.3	83.3


FILENAME: signdesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 303
TYPE: D
QUANTITY: 1
SIGN WIDTH: 96"
HEIGHT: 36"
TOTAL AREA: 24.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADIUS: 3"
NO. Z BARS: LENGTH:

SYMBOL	X	Y	WID	HT
ARUP	43.5	4.5	6	9

BACKG COLOR: Green
COPY COLOR: White
MATERIAL: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R. HENNEIN
PROJECT ID: B-2965
CHECKED BY: DIV: 4
DATE: Sep 02, 2008



BORDER R=3" TH=0.75"
MOUNT ON TWO "U" POSTS

USE NOTES:
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													Series/Size						
													Text Length						
P	R	I	N	C	E	V	I	L	L	E			D 2000						
23.9	5	5.1	2.4	5.4	4.2	5.5	2.4	4.6	4.6	3.7	23.9		48.3						
M	O	N	T	E	S	S	O	R	I	S	C	H	O	O	L	D 2000			
6.3	6	5.6	5	4.6	4.3	4.7	5	5.6	5.1	1	6	5	5.4	5.4	5.5	5.6	3.7	6.3	83.3

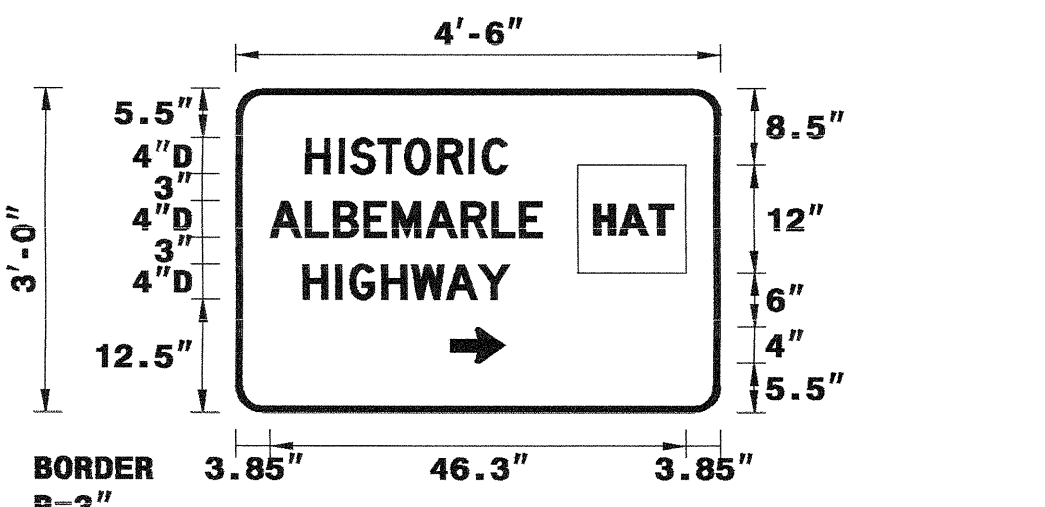
FILENAME: signdesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 302
TYPE: D
QUANTITY: 1
SIGN WIDTH: 54"
HEIGHT: 36"
TOTAL AREA: 13.5 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.5"
RADIUS: 3"
NO. Z BARS: LENGTH:

SYMBOL	X	Y	WID	HT
ARUP	38.2	15.5	12	12
ARUP	24	5.5	4	6

BACKG COLOR: Green
COPY COLOR: White
MATERIAL: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R. HENNEIN
PROJECT ID: B-2965
CHECKED BY: DIV: 4
DATE: Aug 29, 2008



BORDER R=3" TH=0.5"
MOUNT ON TWO "U" POSTS

USE NOTES:
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													Series/Size
													Text Length
H	I	S	T	O	R	I	C						D 2000
7.8	3.7	1.3	3	3	3.7	3.4	1.5	2.7	23.8				22.4
A	L	B	E	N	A	R	L	E					D 2000
3.8	4	3.1	3.4	3.2	3.7	4	3.4	3.1	2.5	19.8			30.3
H	I	G	H	W	A	Y							D 2000
7.5	3.7	1.5	3.6	3.3	3.8	3.6	3.4	23.5					23

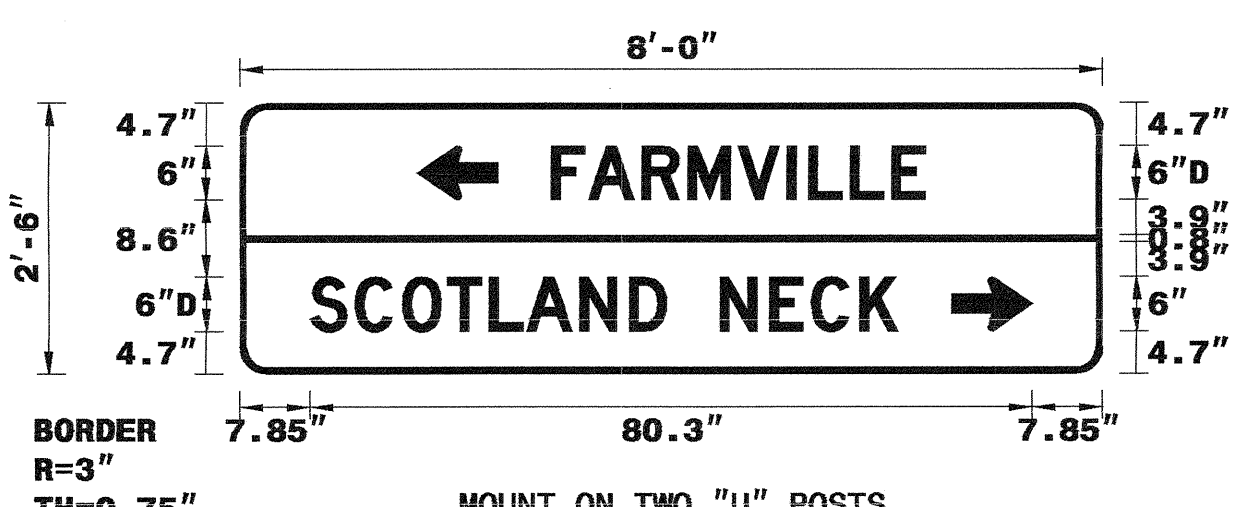
FILENAME: signdesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 304
TYPE: D
QUANTITY: 1
SIGN WIDTH: 96"
HEIGHT: 30"
TOTAL AREA: 20.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADIUS: 3"
NO. Z BARS: LENGTH:

SYMBOL	X	Y	WID	HT
ARUP	19.7	19.3	6	9
ARUP	79.2	4.7	6	9

BACKG COLOR: Green/Green
COPY COLOR: White
MATERIAL: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R. HENNEIN
PROJECT ID: B-2965
CHECKED BY: DIV: 4
DATE: Aug 29, 2008



BORDER R=3" TH=0.75"
MOUNT ON TWO "U" POSTS

USE NOTES:
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													Series/Size		
													Text Length		
F	A	R	M	V	I	L	L	E					D 2000		
34.7	4.1	6	5.1	5.6	5.5	2.4	4.6	4.6	3.7	19.7			41.6		
S	C	O	T	L	A	N	D	H	E	C	K		D 2000		
7.8	5	5.3	5	4.6	4.1	6	5.5	4.1	6	5.5	4.6	5.4	4.2	22.8	65.3

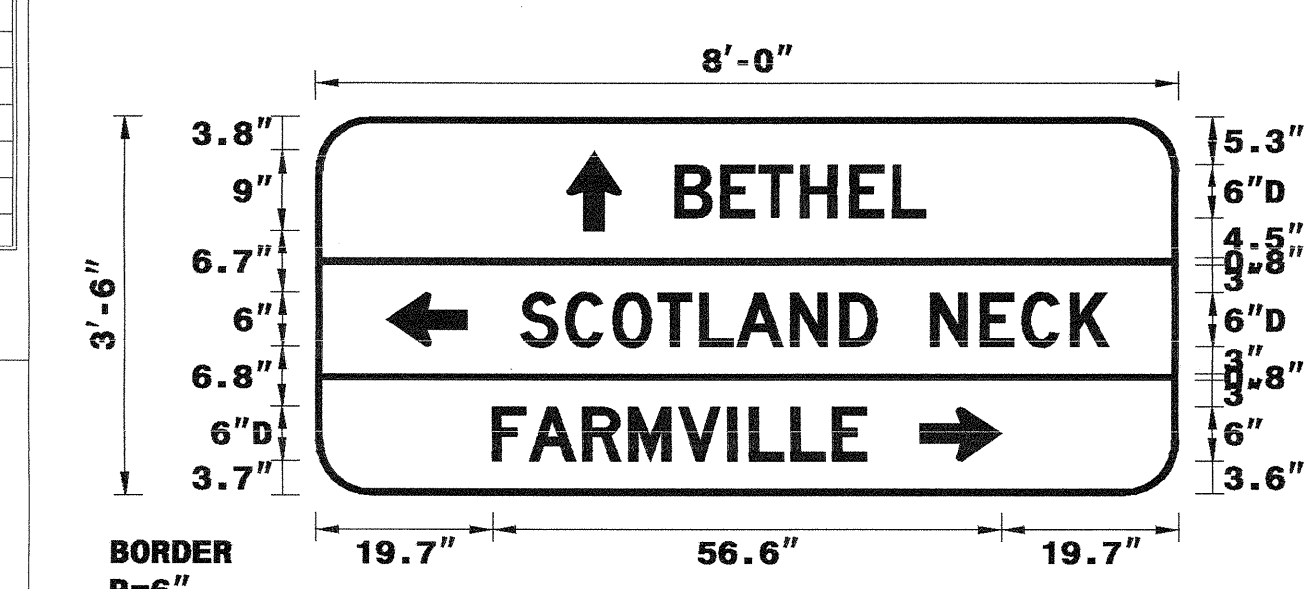
FILENAME: signdesign NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "D" SIGNS

TIP NO. B-2965	SHEET NO. SIGN-10
APPROVED: <i>[Signature]</i>	
DATE: 9/1/08	
SEAL	



SIGN NUMBER: 305 TYPE: D QUANTITY: 1 SIGN WIDTH: 96" HEIGHT: 42" TOTAL AREA: 28.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADIUS: 6" NO. Z BARS: LENGTH:	BACKG COLOR: Green/Green/Green COPY COLOR: White SYMBOL X Y WID HT ARUP 28 29.3 6 9 ARUP 7.8 16.5 6 9 ARUP 67.3 3.8 6 9 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: R. HENNEIN PROJECT ID: B-2965 CHECKED BY: DIV: 4 DATE: Aug 29, 2008
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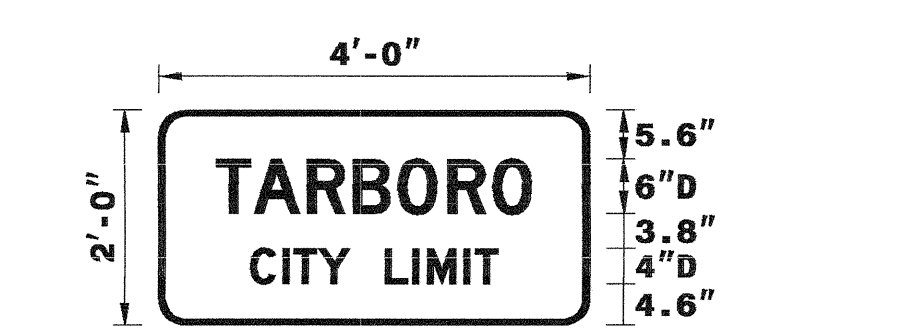
BORDER R=6" TH=0.75" MOUNT ON THREE "U" POSTS

Spacing Factor is 1 unless specified otherwise

Letter positions										Series/Size					
Letter spacings are to start of next letter										Text Length					
B	E	T	H	E	L					D 2000					
40.1	5.1	4.2	4.6	5.5	4.7	3.7	28			27.9					
S	C	O	T	L	A	N	D	N	E	C	K	D 2000			
22.8	5	5.3	5	4.6	4.1	6	5.5	4.1	6	5.5	4.6	5.4	4.2	7.8	65.3
F	A	R	M	V	I	L	L	E							D 2000
19.7	4.1	6	5.1	5.6	5.5	2.4	4.6	4.6	3.7	34.7					41.6

FILENAME: signdesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 307 TYPE: D QUANTITY: 1 SIGN WIDTH: 48" HEIGHT: 24" TOTAL AREA: 8.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADIUS: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: R. HENNEIN PROJECT ID: B-2965 CHECKED BY: DIV: 4 DATE: Aug 29, 2008
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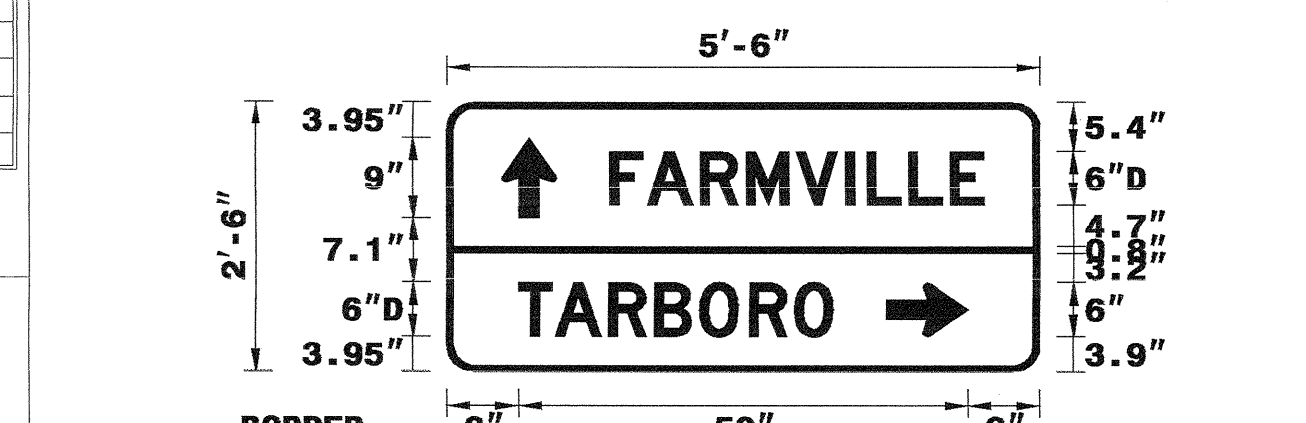
BORDER R=3" TH=0.75" MOUNT ON TWO "U" POSTS

Spacing Factor is 1 unless specified otherwise

Letter positions										Series/Size		
Letter spacings are to start of next letter										Text Length		
T	A	R	B	O	R	O				D 2000		
6.5	4.1	6	5.1	5	5.6	5	4.3	6.5		35		
C	I	T	Y	L	I	M	I	T		D 2000		
10.3	3.6	1.2	2.7	3.4	4	3.1	1.6	4.1	1.2	2.5	10.3	27.5

FILENAME: signdesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 306 TYPE: D QUANTITY: 1 SIGN WIDTH: 66" HEIGHT: 30" TOTAL AREA: 13.8 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADIUS: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Green/Green COPY COLOR: White SYMBOL X Y WID HT ARUP 6.2 17.1 6 9 ARUP 49 3.9 6 9 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: R. HENNEIN PROJECT ID: B-2965 CHECKED BY: DIV: 4 DATE: Aug 29, 2008
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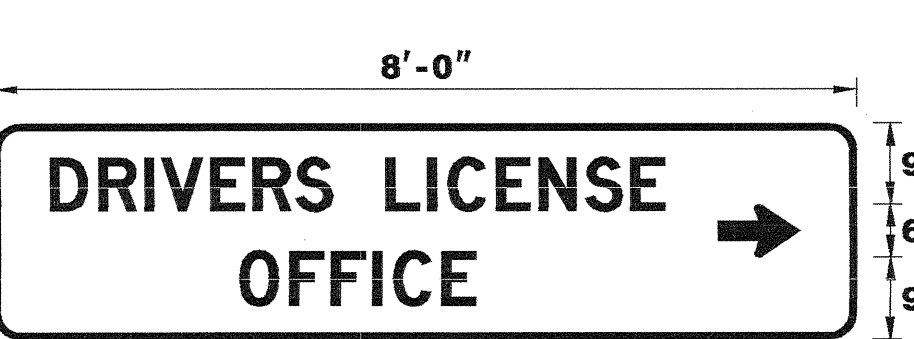
BORDER R=3" TH=0.75" MOUNT ON TWO "U" POSTS

Spacing Factor is 1 unless specified otherwise

Letter positions										Series/Size		
Letter spacings are to start of next letter										Text Length		
F	A	R	M	V	I	L	L	E		D 2000		
18.2	4.1	6	5.1	5.6	5.5	2.4	4.6	4.6	3.7	6.2	41.6	
T	A	R	B	O	R	O				D 2000		
8	4.1	6	5.1	5	5.6	5	4.3	23				35

FILENAME: signdesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 308 TYPE: D QUANTITY: 1 SIGN WIDTH: 96" HEIGHT: 24" TOTAL AREA: 16.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADIUS: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT ARUP 80.6 9 6 9 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: R. HENNEIN PROJECT ID: B-2965 CHECKED BY: DIV: 4 DATE: Aug 29, 2008
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BORDER R=3" TH=0.75" MOUNT ON TWO "U" POSTS

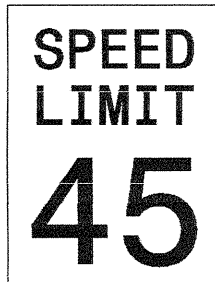
Spacing Factor is 1 unless specified otherwise

Letter positions										Series/Size							
Letter spacings are to start of next letter										Text Length							
D	R	I	V	E	R	S	L	I	C	E	N	S	E		D 2000		
6.4	5.4	5.1	1.9	5.5	4.7	4.7	4.1	6	4.6	2.3	5.4	4.7	5.1	5.1	3.7	21.4	68.3
O	F	F	I	C	E												D 2000
27.4	5.6	4.6	4.6	2.3	5.4	3.7	42.4										26.2

FILENAME: signdesign NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "D" SIGNS

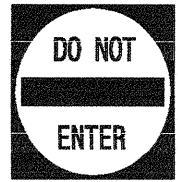
402 QUANTITY REQ'D 1



24 X 30
R2-1

ONE "U" POST PER SIGN

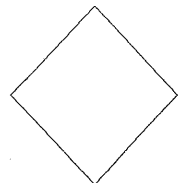
411 QUANTITY REQ'D 4



30 X 30
R5-1

ONE "U" POST PER SIGN


417 QUANTITY REQ'D 7



18 X 18
W23-15

MOUNT BELOW SIGN 416
IN 7 INSTALLATIONS

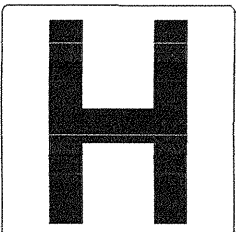
453 QUANTITY REQ'D 1



36 X 36
W3-5


ONE "U" POST PER SIGN

467 QUANTITY REQ'D 1

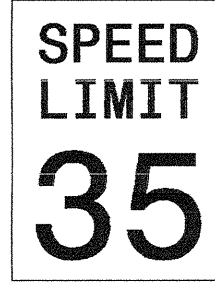


24 X 24
D9-2

MOUNT BELOW SIGN 306
IN 1 INSTALLATION

TIP NO. B-2965	SHEET NO. SIGN-12
APPROVED: <i>[Signature]</i>	
DATE: 9/4/08	
SEAL	
	

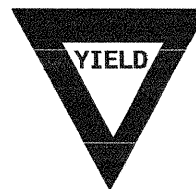
403 QUANTITY REQ'D 5



24 X 30
R2-1

ONE "U" POST PER SIGN

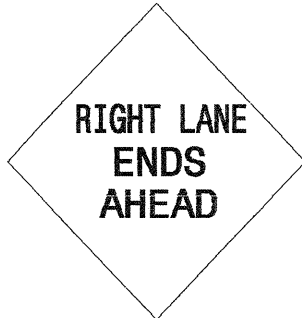
412 QUANTITY REQ'D 8



36 X 36 X 36
R1-2

ONE "U" POST PER SIGN

432 QUANTITY REQ'D 1



36 X 36
W19-10RD

ONE "U" POST PER SIGN

454 QUANTITY REQ'D 1



60 X 36
R2-27

TWO "U" POSTS PER SIGN

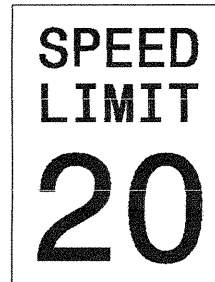
468 QUANTITY REQ'D 1



21 X 15
M6-1

WHITE ON BLUE
MOUNT BELOW SIGN 467
IN 1 INSTALLATION


404 QUANTITY REQ'D 1



24 X 30
R2-1

ONE "U" POST PER SIGN


413 QUANTITY REQ'D 4



54 X 18
R6-1 (R)

TWO "U" POSTS PER SIGN

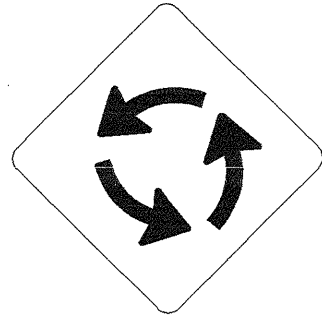
433 QUANTITY REQ'D 1



30 X 30
W9-1R

ONE "U" POST PER SIGN

464 QUANTITY REQ'D 4



30 X 30
W2-6

ONE "U" POST PER SIGN

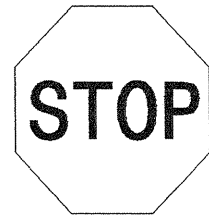
469 QUANTITY REQ'D 2



24 X 6
M4-11

BLACK ON WHITE
MOUNT ABOVE SIGN 470
IN 2 INSTALLATIONS


408 QUANTITY REQ'D 7



30 X 30
R1-1

ONE "U" POST PER SIGN

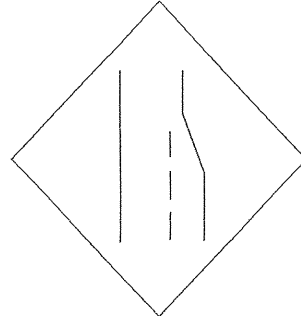
414 QUANTITY REQ'D 2



54 X 18
R6-1 (L)

TWO "U" POSTS PER SIGN

435 QUANTITY REQ'D 1



30 X 30
W4-2R

ONE "U" POST PER SIGN


465 QUANTITY REQ'D 4



24 X 12
W16-17p

MOUNT BELOW SIGN 464
IN 4 INSTALLATIONS


470 QUANTITY REQ'D 4



24 X 36
R3-9b

ONE "U" POST PER SIGN

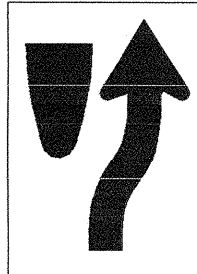
410 QUANTITY REQ'D 6



36 X 24
R5-1a

ONE "U" POST PER SIGN

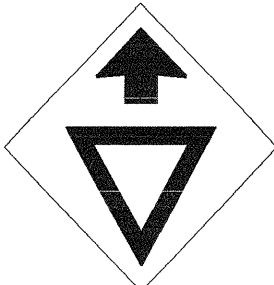
416 QUANTITY REQ'D 7



24 X 30
R4-7

ONE "U" POST PER SIGN


440 QUANTITY REQ'D 1



36 X 36
W3-2

ONE "U" POST PER SIGN


466 QUANTITY REQ'D 4



24 X 24
R3-2

MOUNT BELOW SIGN 412
IN 4 INSTALLATIONS

471 QUANTITY REQ'D 2

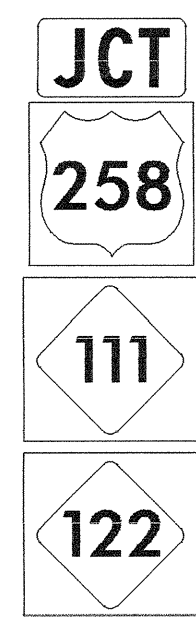


24 X 6
M4-12

BLACK ON WHITE
MOUNT ABOVE SIGN 470
IN 2 INSTALLATIONS

TYPE "E" SIGNS

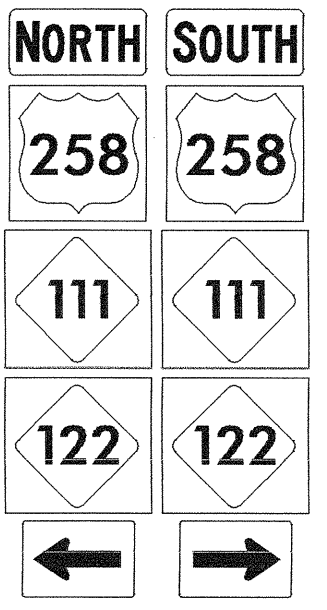
501



1 - 21 X 15
1 - 30 X 24
1 - 24 X 24
1 - 24 X 24

ONE "U" POST PER SIGN

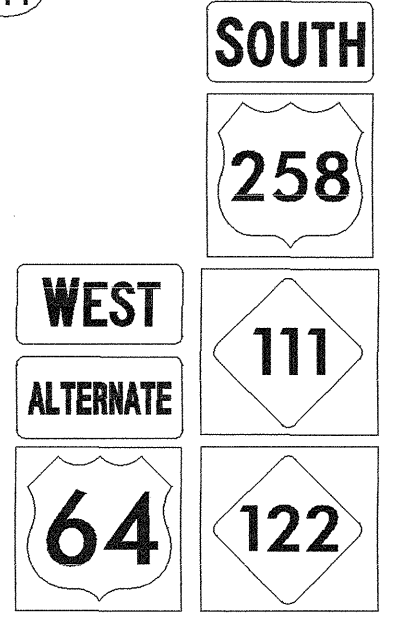
506



2 - 24 X 12
2 - 30 X 24
2 - 24 X 24
2 - 24 X 24
2 - 21 X 15

TWO "U" POSTS PER SIGN

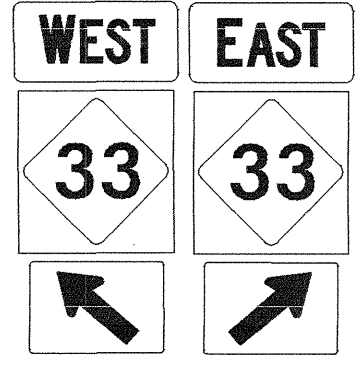
511



1 - 24 X 12
1 - 30 X 24
1 - 24 X 12
1 - 24 X 24
1 - 24 X 12
2 - 24 X 24

TWO "U" POSTS PER SIGN


516



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

TWO "U" POSTS PER SIGN

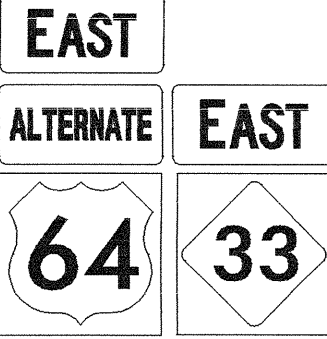
502



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

ONE "U" POST PER SIGN

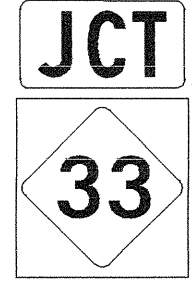
507



1 - 24 X 12
2 - 24 X 12
2 - 24 X 24

TWO "U" POSTS PER SIGN

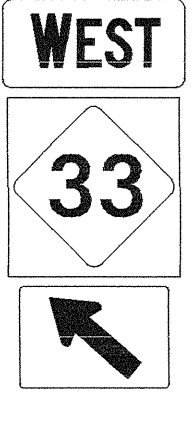
512



1 - 21 X 15
1 - 24 X 24

ONE "U" POST PER SIGN

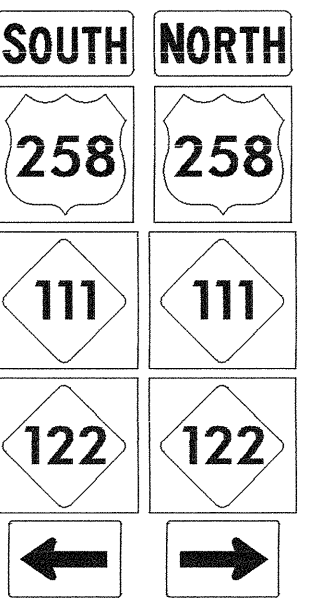
517



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

ONE "U" POST PER SIGN

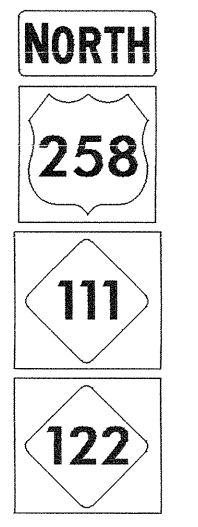
503



2 - 24 X 12
2 - 30 X 24
2 - 24 X 24
2 - 24 X 24
2 - 21 X 15

TWO "U" POSTS PER SIGN

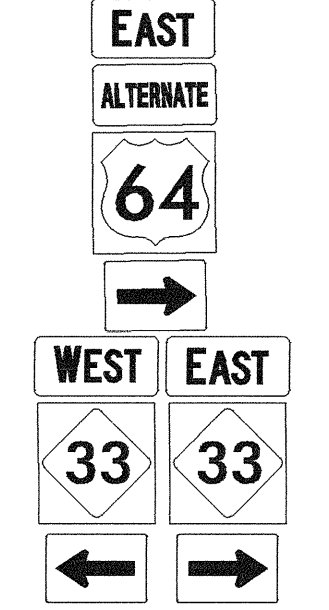
508



1 - 24 X 12
1 - 30 X 24
1 - 24 X 24
1 - 24 X 24

ONE "U" POST PER SIGN

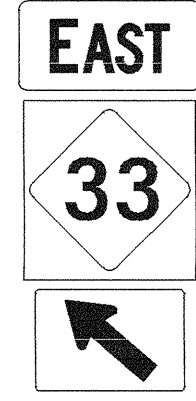
513



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

TWO "U" POSTS PER SIGN


518



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

ONE "U" POST PER SIGN

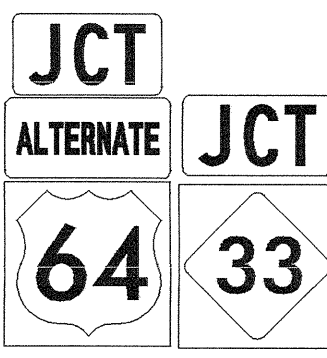
504



1 - 24 X 12
1 - 24 X 24

ONE "U" POST PER SIGN

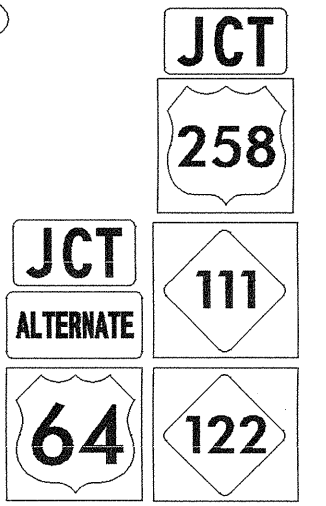
509



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

TWO "U" POSTS PER SIGN

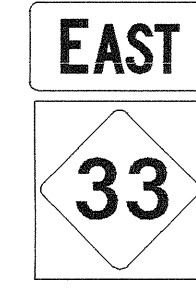
514



1 - 21 X 15
1 - 30 X 24
1 - 21 X 15
1 - 24 X 24
1 - 24 X 12
2 - 24 X 24

TWO "U" POSTS PER SIGN

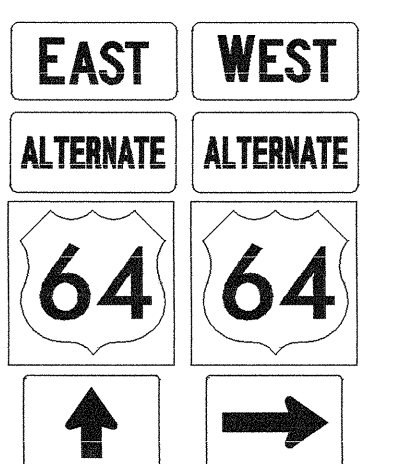
519



1 - 24 X 12
1 - 24 X 24

ONE "U" POST PER SIGN

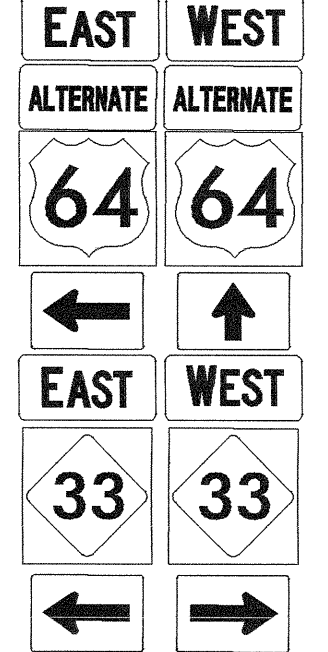
505



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

TWO "U" POSTS PER SIGN

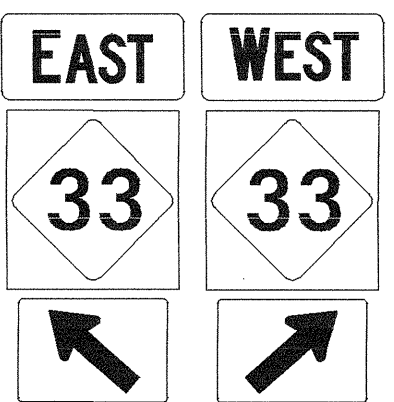
510



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

TWO "U" POSTS PER SIGN

515

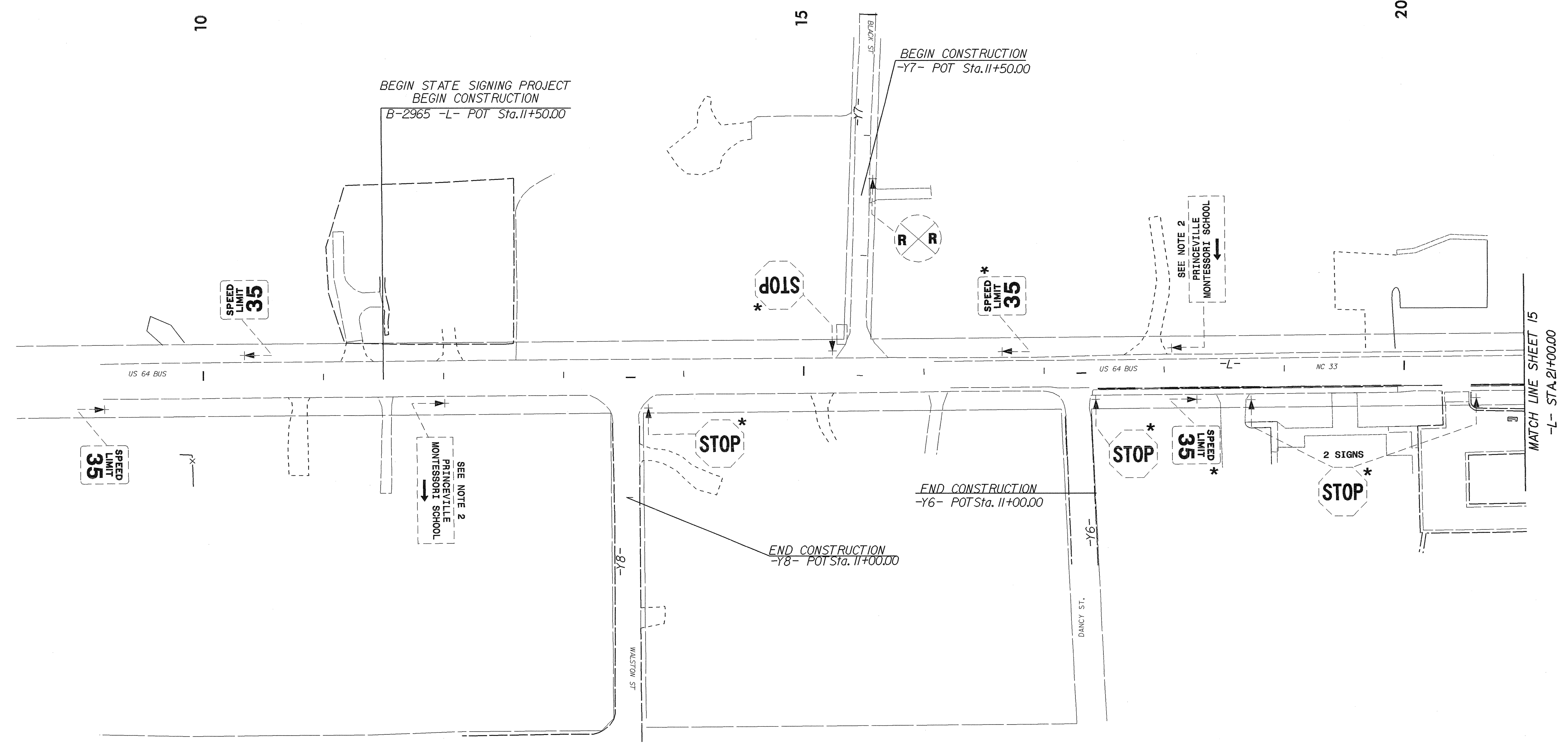


2 - 24 X 12
2 - 24 X 24
2 - 21 X 15

TWO "U" POSTS PER SIGN

TYPE "F" SIGNS

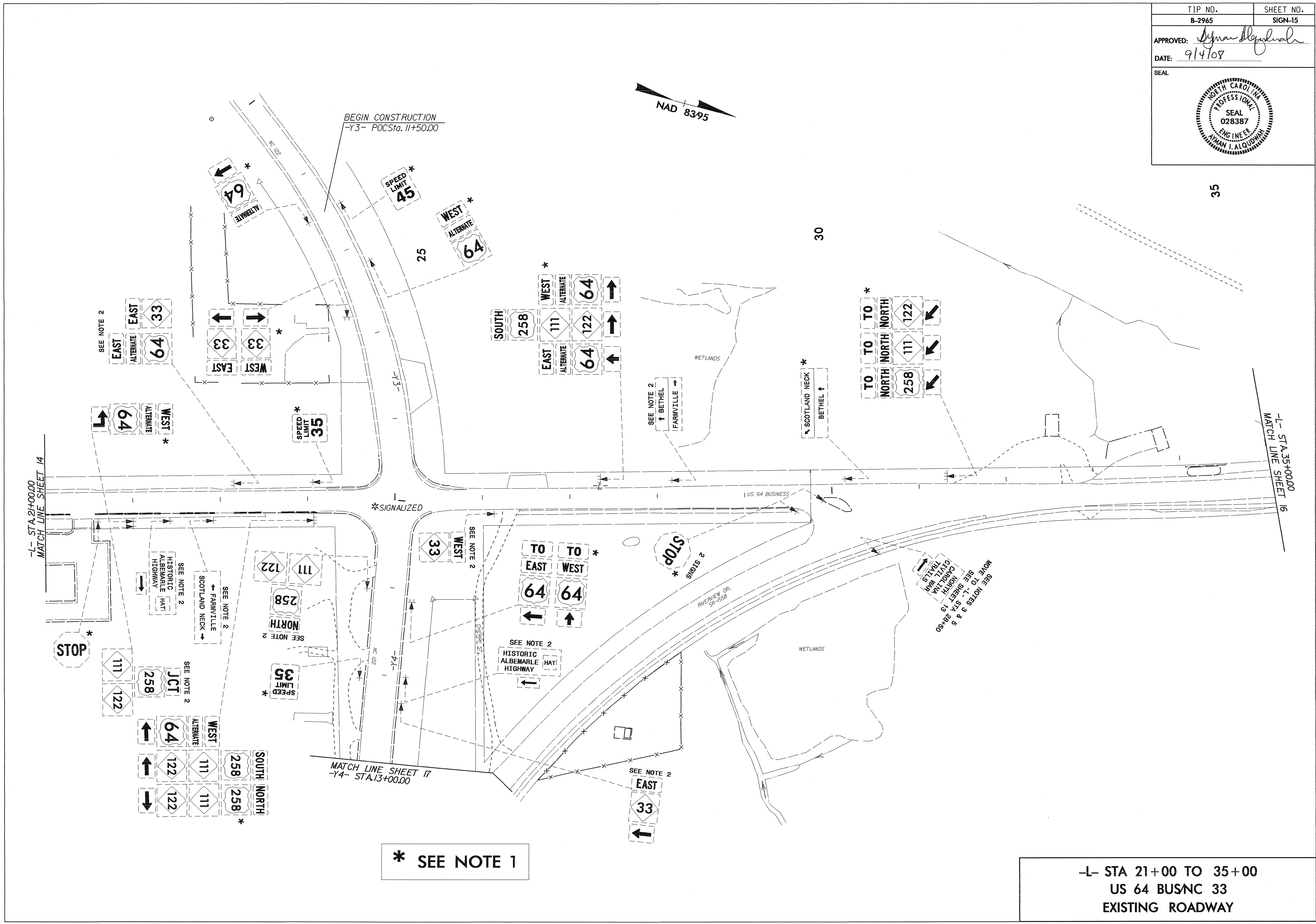
TIP NO. B-2965	SHEET NO. SIGN-14
APPROVED: <i>[Signature]</i>	
DATE: 9/4/08	
SEAL	



* SEE NOTE 1


-L- STA 9+15 TO 21+00
US 64 BUS/NC 33
EXISTING ROADWAY

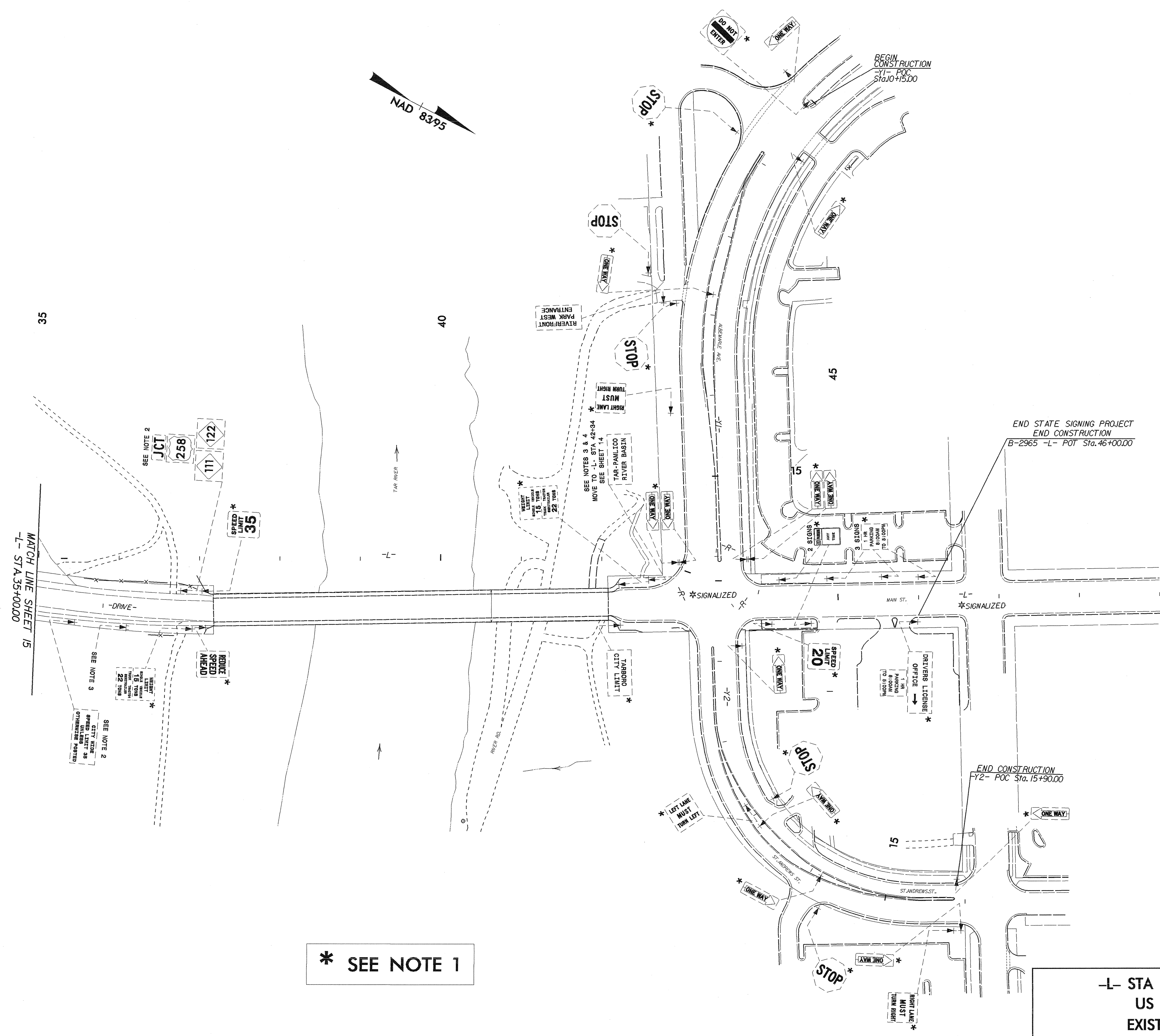
TIP NO. B-2965	SHEET NO. SIGN-15
APPROVED: <i>Sydney Reynolds</i>	
DATE: 9/4/08	
SEAL	



*** SEE NOTE 1**

**-L- STA 21+00 TO 35+00
US 64 BUSNC 33
EXISTING ROADWAY**

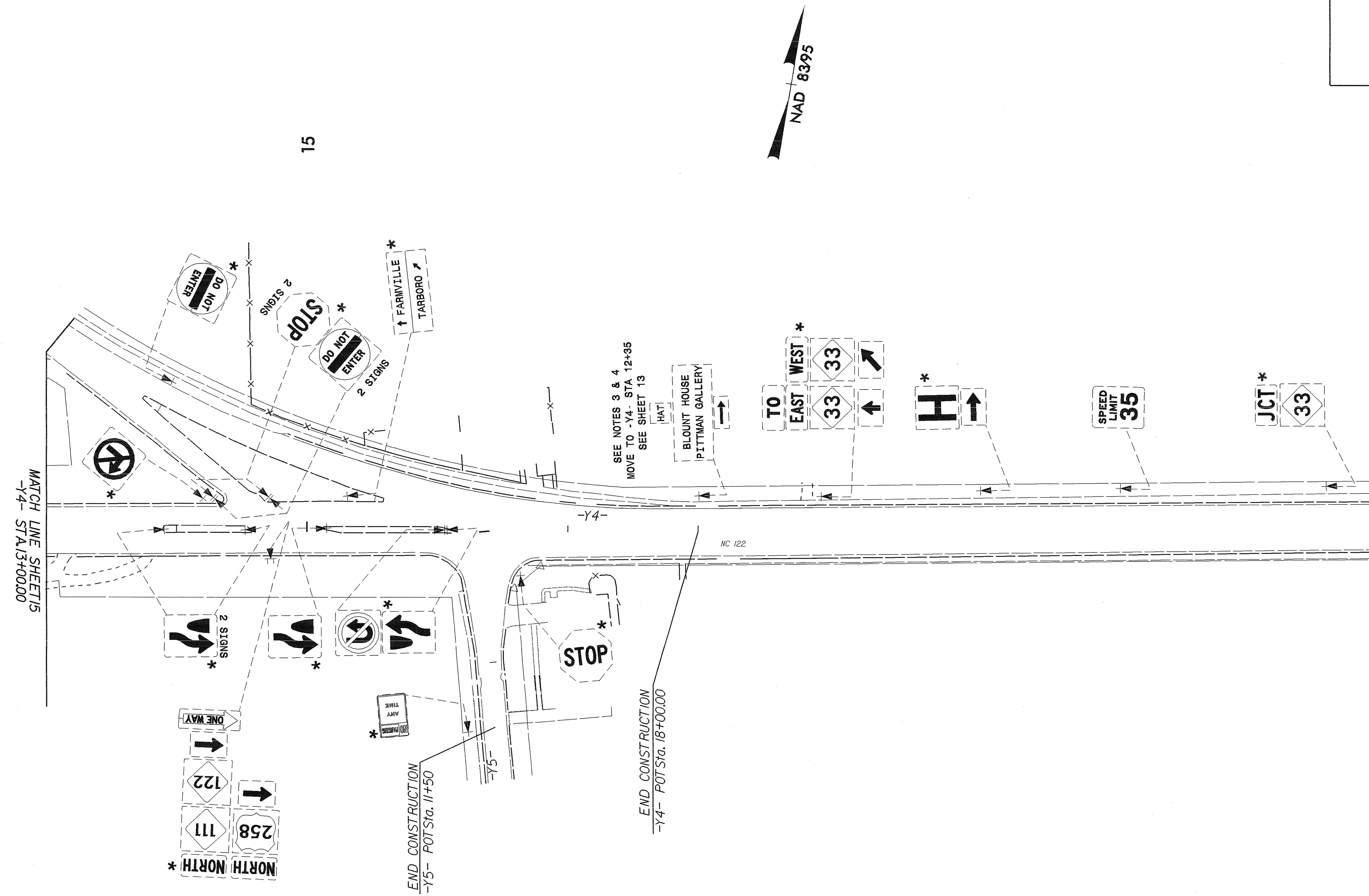
TIP NO. B-2965	SHEET NO. SIGN-16
APPROVED: <i>[Signature]</i>	
DATE: 9/4/08	
SEAL	
	



* SEE NOTE 1


-L- STA 35+00 TO 49+00
US 64 BUSNC 33
EXISTING ROADWAY

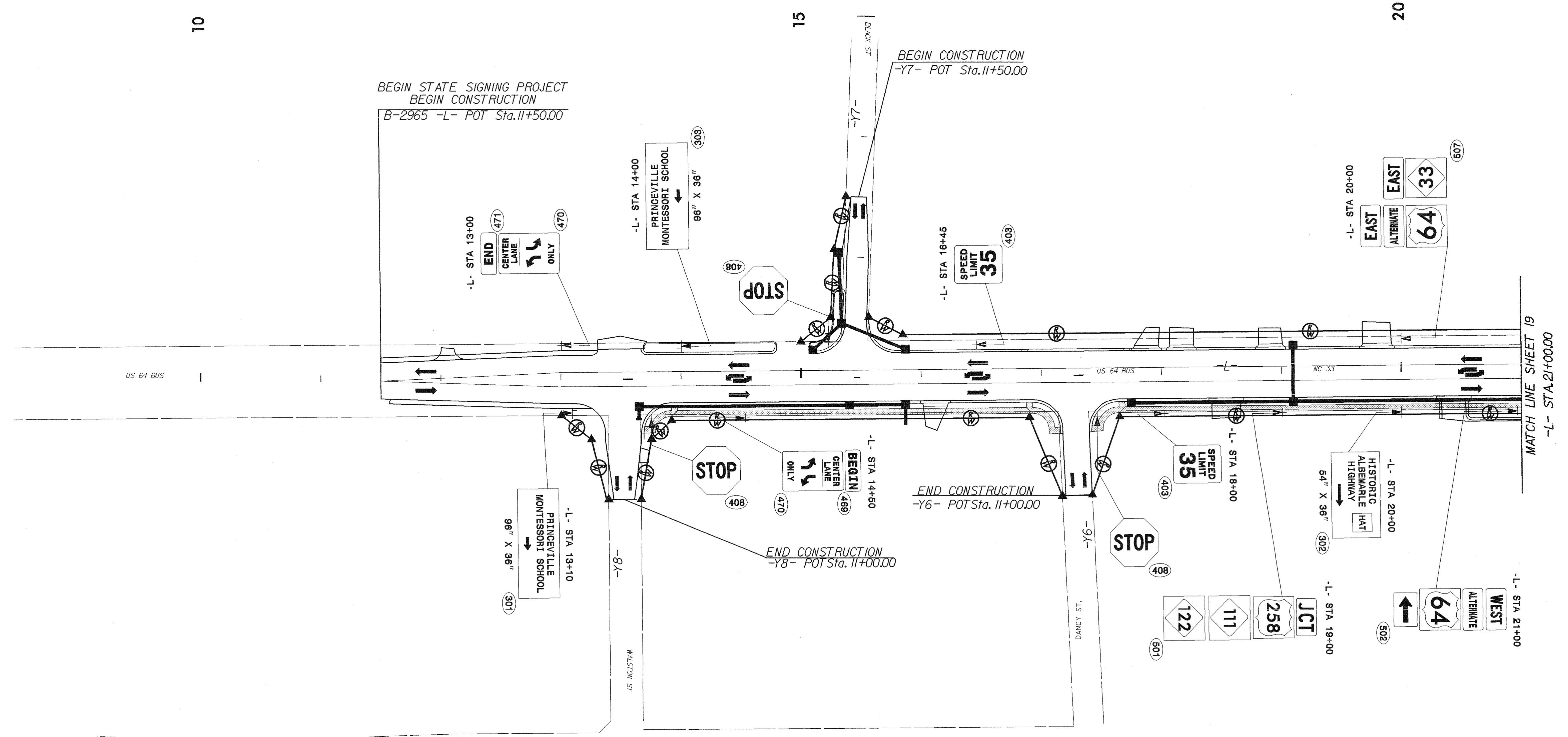
TIP NO. B-2965	SHEET NO. SIGN-17
APPROVED: <i>[Signature]</i>	
DATE: 9/4/08	
SEAL	



* SEE NOTE 1

-Y4- STA 13+00 TO 22+85
US 258/NC 111/NC 122
EXISTING ROADWAY

TIP NO. B-2965	SHEET NO. SIGN-18
APPROVED: <i>[Signature]</i>	
DATE: 9/4/08	
SEAL	
	



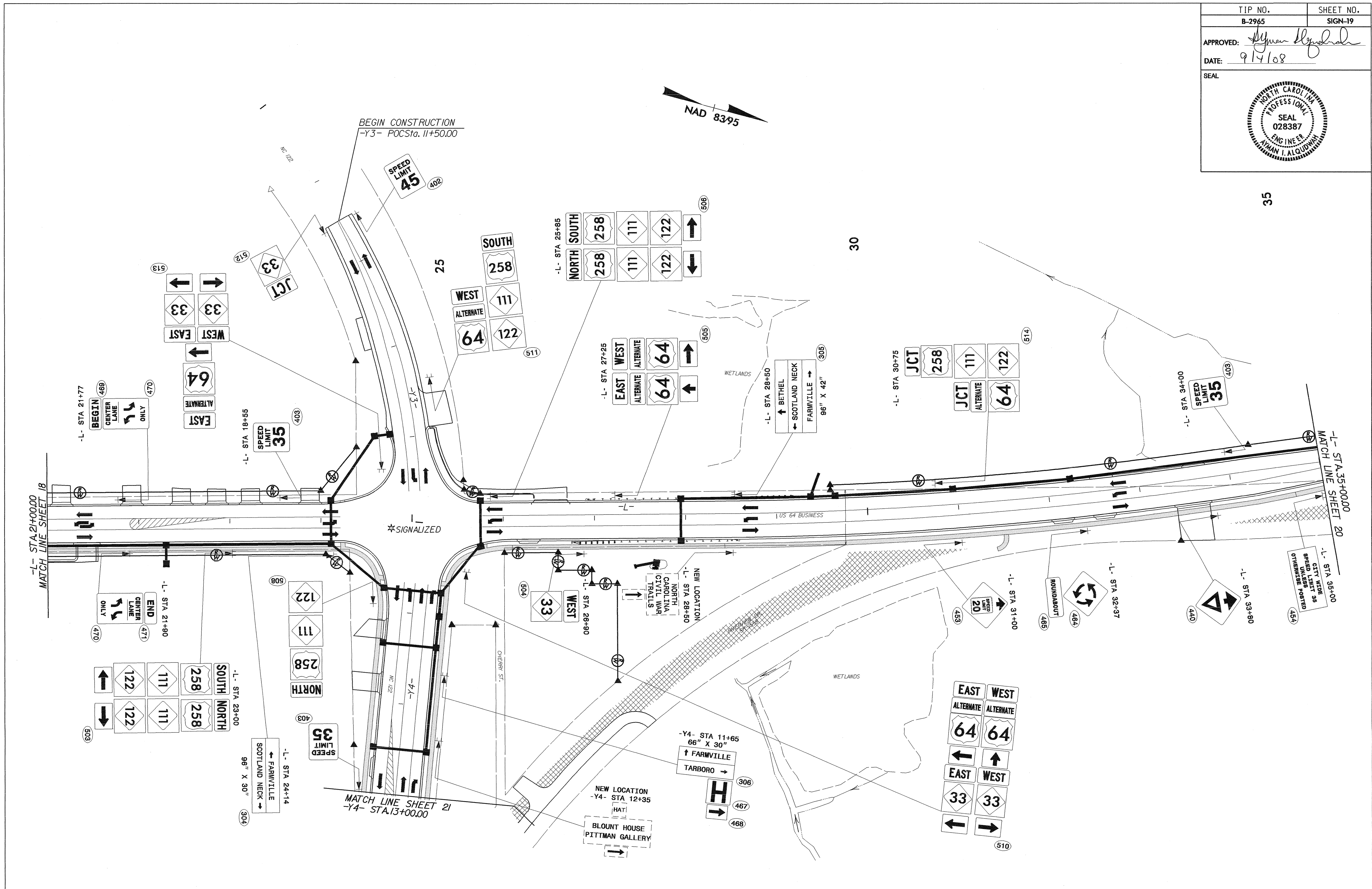
10

15

20

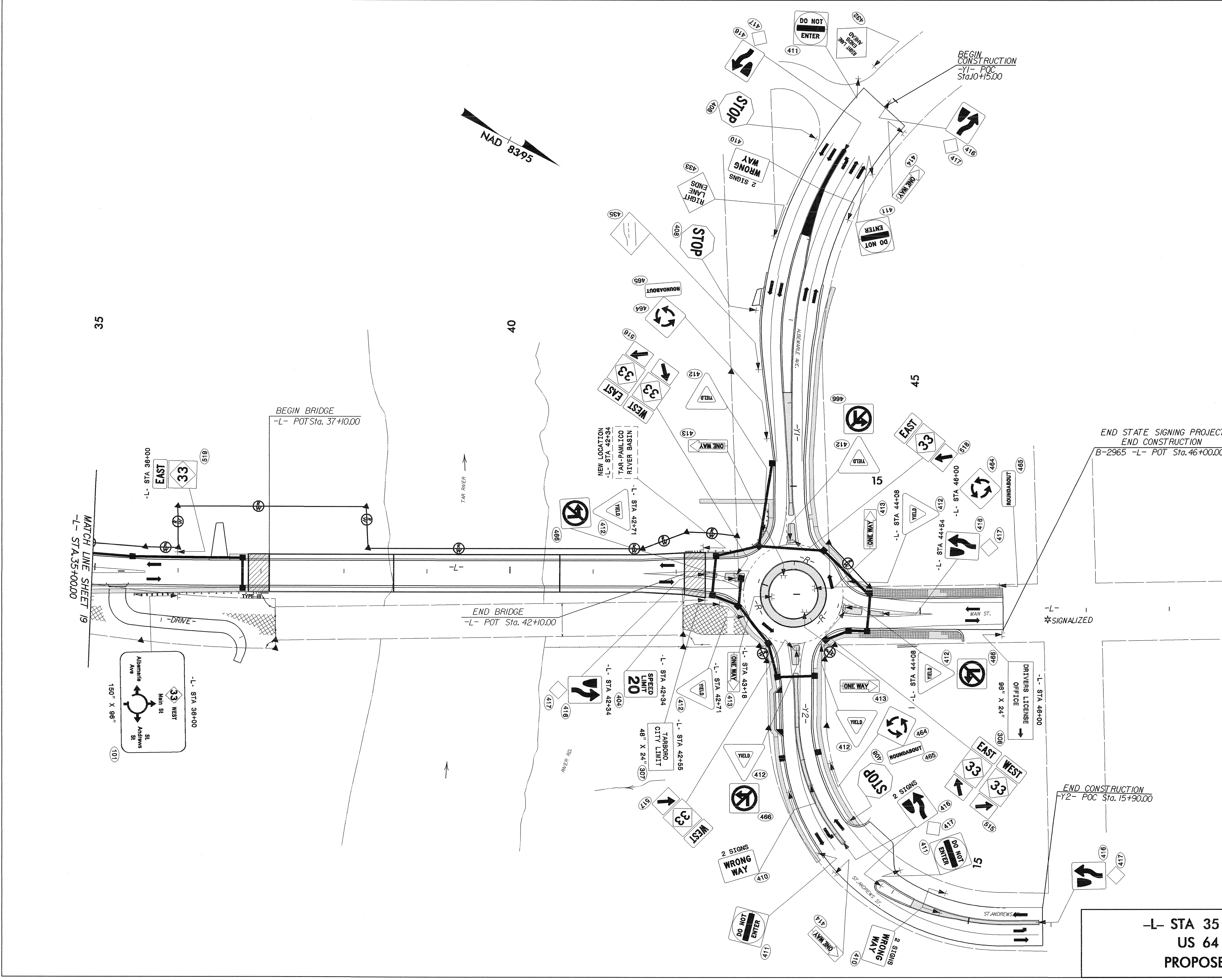
-L- STA 9+15 TO 21+00
US 64 BUS NC 33
PROPOSED ROADWAY

TIP NO. B-2965	SHEET NO. SIGN-19
APPROVED: <i>[Signature]</i>	
DATE: 9/14/08	
SEAL	



-L- STA 21+00 TO 35+00
US 64 BUSNC 33
PROPOSED ROADWAY

TIP NO. B-2965	SHEET NO. SIGN-20
APPROVED: <i>[Signature]</i>	
DATE: 9/4/08	
SEAL	

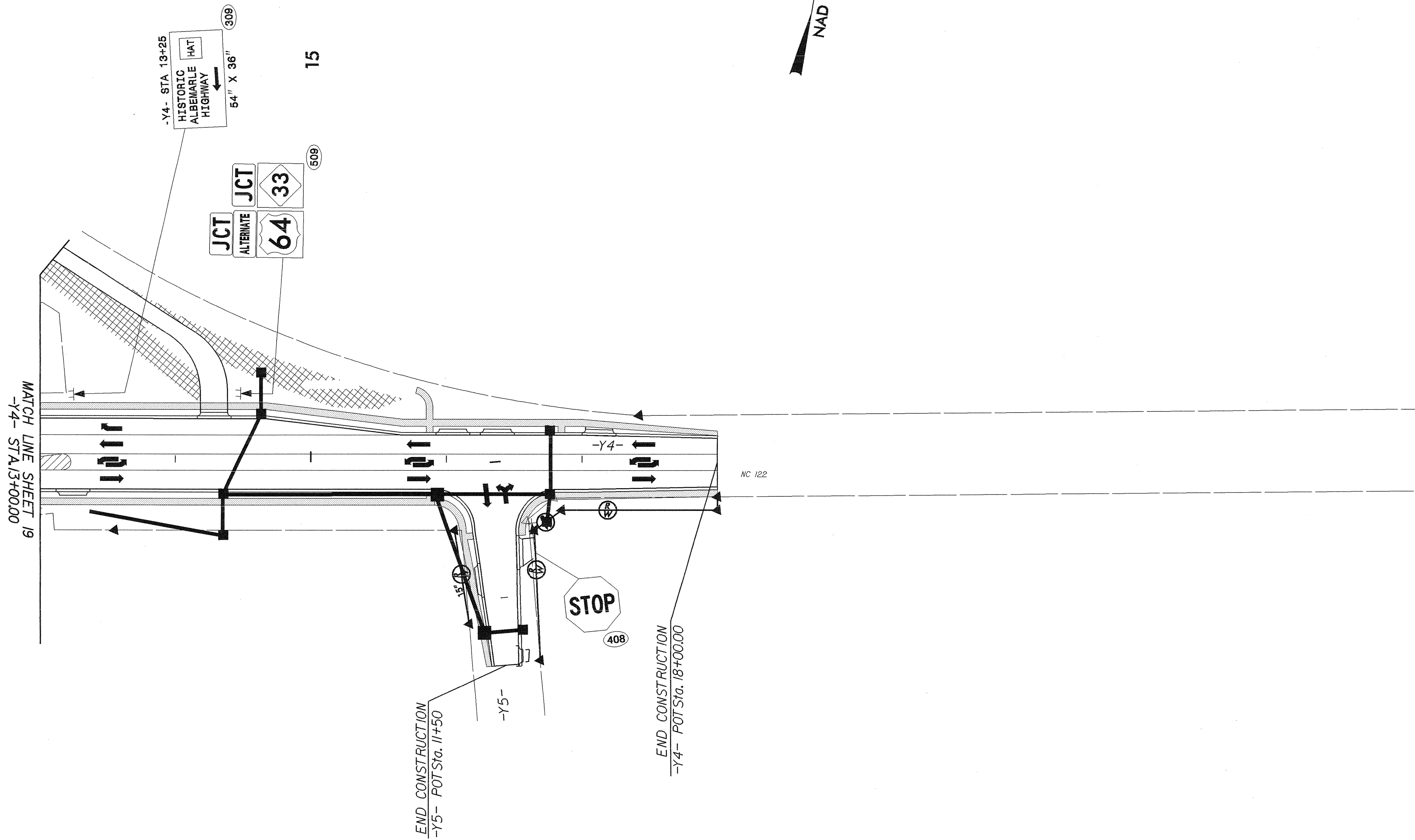


END STATE SIGNING PROJECT
END CONSTRUCTION
B-2965 -L- POT Sta. 46+00.00

END CONSTRUCTION
Y2- POC Sta. 15+90.00

-L- STA 35+00 TO 49+00
US 64 BUSNC 33
PROPOSED ROADWAY

TIP NO. B-2965	SHEET NO. SIGN-21
APPROVED: <i>[Signature]</i>	
DATE: 9/4/08	
SEAL	



-Y4- STA 13+00 TO 22+85
 US 258/NC 111/NC 122
 PROPOSED ROADWAY