

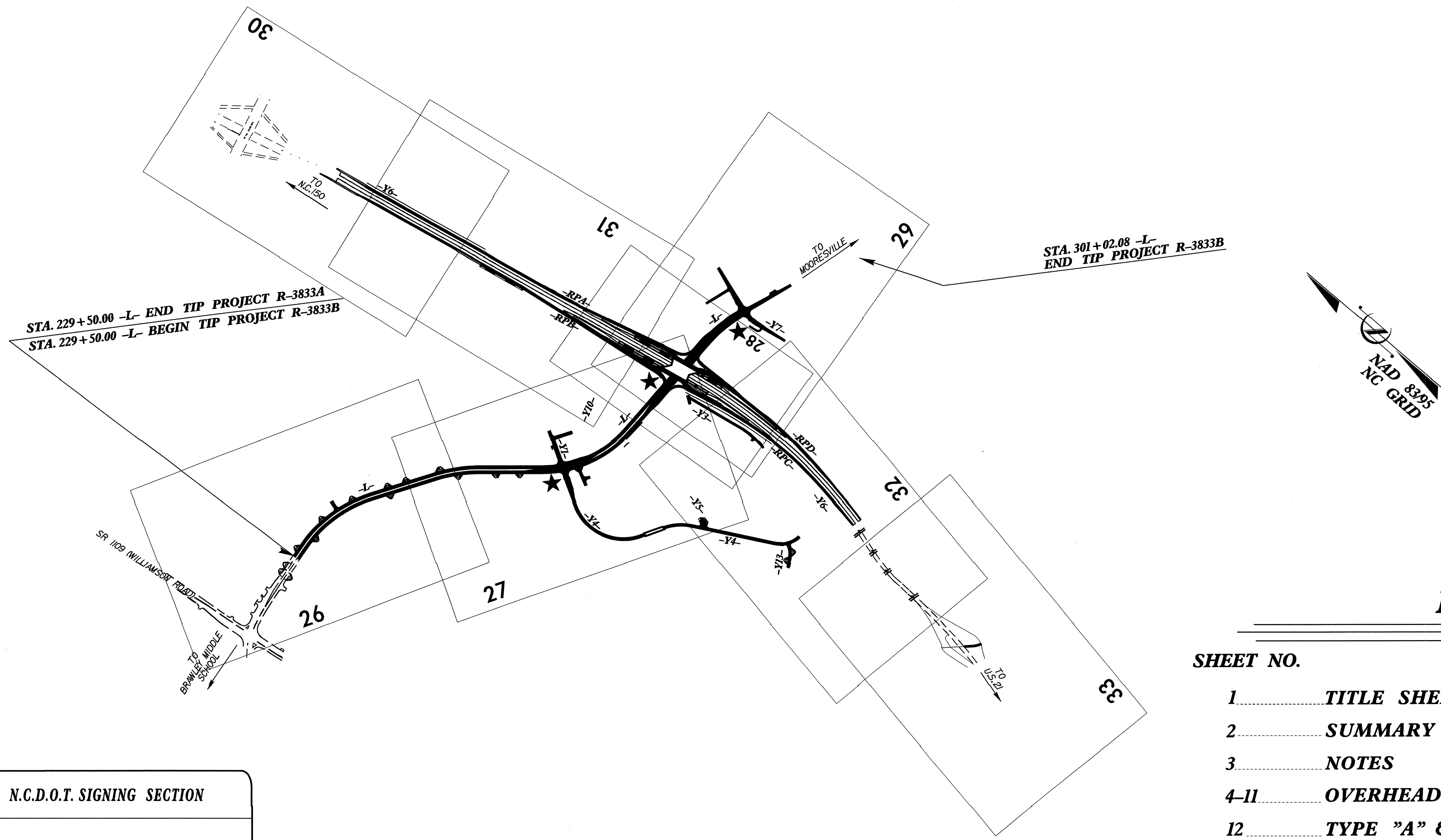
TIP NO. R-3833B	SHEET NO. SIGN-01
APPROVED: <i>[Signature]</i>	
DATE: 11/13/08	
SEAL	



**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS
IREDELL COUNTY**

LOCATION: SR 1100 (BRAWLEY SCHOOL ROAD) FROM EAST OF SR 1109 (WILLIAMSON ROAD) TO EAST OF WINGHAVEN COURT



INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SUMMARY OF QUANTITIES
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24	E SHEET
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26-33	SIGN ROADWAY SHEETS

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

R.W. King, P.E. SIGNING ENGINEER
A. Alqudwah, P.E. SIGNING PROJECT ENGINEER
J.G. Martinez SIGNING PROJECT DESIGN ENGINEER
W.R. Dakduk SIGNING DESIGN ENGINEER

CONTRACT: C202068 T.I.P.: R-3833B

I3-NOV-2008 14:04 P:\TIP\Projects\AT\TECC221650\3833B\Trffc\Signing\CADD\Quantities & GM Signs\R-3833B0quantities.dgn jgmartinez

SIGNS SUMMARY OF QUANTITIES

TIP NO. R-3833B	SHEET NO. SIGN-02
APPROVED:	
DATE: 8/28/09	
SEAL 	

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT	ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT	ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.				DESC. NO.	SECT. NO.				DESC. NO.	SECT. NO.			
0001000000	800	MOBILIZATION		L.S.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4235000000	907	STOCKPILE SIGN, A OR B (GROUND MOUNTED)		EA.
4025000000	901	CONTRACTOR FURNISHED, TYPE A SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4236000000	907	DISPOSAL OF SIGN, A OR B (GROUND MOUNTED)		EA.
4025000000	901	CONTRACTOR FURNISHED, TYPE B SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4237000000	907	STOCKPILE SIGN, D, E OR F		EA.
4025000000	901	CONTRACTOR FURNISHED, TYPE D SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4237500000	907	STOCKPILE SIGN, MILEMARKERS		EA.
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4238000000	907	DISPOSAL OF SIGN, D, E OR F		EA.
4025000000	901	CONTRACTOR FURNISHED, TYPE F SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4238500000	907	DISPOSAL OF SIGN, MILEMARKERS		EA.
4025000000	901	CONTRACTOR FURNISHED, OVERLAYS SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4241000000	907	DISPOSAL OF SIGN, OVERLAY (OVERHEAD)		EA.
4025000000	901	CONTRACTOR FURNISHED, MILEMARKER SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4242000000	907	DISPOSAL OF SIGN, OVERLAY (GROUND MOUNTED)		EA.
4026000000	902	DEPARTMENT FURNISHED, TYPE A SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4250000000	907	STOCKPILE LIGHTING SYSTEM		EA.
4026000000	902	DEPARTMENT FURNISHED, TYPE B SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4251000000	907	DISPOSAL OF LIGHTING SYSTEM		EA.
4026000000	902	DEPARTMENT FURNISHED, TYPE D SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4252000000	907	STOCKPILE LIGHTING FIXTURES		EA.
4026000000	902	DEPARTMENT FURNISHED, TYPE E SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4258000000	907	DISPOSAL OF LIGHTING FIXTURES		EA.
4026000000	902	DEPARTMENT FURNISHED, TYPE F SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4262000000	907	STOCKPILE WALKWAY		EA.
4026000000	902	DEPARTMENT FURNISHED, OVERLAYS SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4263000000	907	DISPOSAL OF WALKWAY		EA.
4026000000	902	DEPARTMENT FURNISHED, MILEMARKER SIGN		S.F.	4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355000000	SP	DYNAMIC MESSAGE SIGN SYSTEM INTEGRATION		L.S.
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	12	C.Y.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355100000	SP	DYNAMIC MESSAGE SIGN SYSTEM "DMS-***"		L.S.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION		C.Y.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355100000	SP	DYNAMIC MESSAGE SIGN SYSTEM "DMS-***"		L.S.
4057000000	SP	OVERHEAD FOOTING	144	C.Y.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355200000	SP	DMS SYSTEM SERVER COMPUTER		EA.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	7280	LB.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355210000	SP	DMS SYSTEM CLIENT COMPUTER		EA.
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM	1034	LB.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355220000	SP	DMS SYSTEM LAPTOP COMPUTER		EA.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	1523	L.F.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355230000	SP	DMS SYSTEM CONTROL SOFTWARE		EA.
4078000000	903	SUPPORTS, 2 LB STEEL U-CHANNEL	2	EA.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355300000	SP	DYNAMIC MESSAGE SIGN MAINTENANCE TRAINING		EA.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE ON -Y6- NB AT STA. 13+75	1	L.S.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355310000	SP	DYNAMIC MESSAGE SIGN SYSTEM DESIGN APPROVAL TESTS		EA.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE ON -Y6- SB AT STA. 15+60	1	L.S.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355320000	SP	DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FACTORY TESTS		L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE ON -Y6- NB AT STA. 36+00	1	L.S.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355330000	SP	DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FIELD TESTS		L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE ON -Y6- SB AT STA. 37+50	1	L.S.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355340000	SP	DYNAMIC MESSAGE SIGN BENCH TEST UNIT		EA.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE ON -L- AT STA. 274+50	1	L.S.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.	4355350000	SP	DYNAMIC MESSAGE SIGN SYSTEM NTCIP TESTS		EA.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE ON -L- AT STA. 281+00	1	L.S.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.					
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE ON -RPD- AT STA. 14+22	1	L.S.	4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.					
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE ON -RPB- AT STA. 16+50	1	L.S.	4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.					
4096000000	904	SIGN ERECTION, TYPE D		EA.	4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.					
4102000000	904	SIGN ERECTION, TYPE E	79	EA.	4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.					
4108000000	904	SIGN ERECTION, TYPE F	5	EA.	4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.					
4109000000	904	SIGN ERECTION, TYPE A (OVERHEAD)		EA.	4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.					
4109000000	904	SIGN ERECTION, TYPE B (OVERHEAD)		EA.	4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.					
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	9	EA.	4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.					
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	5	EA.	4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA *****		L.S.					
4114000000	904	SIGN ERECTION, MILEMARKERS	2	EA.	4132000000	907	STOCKPILE SUPPORT, STEEL BEAM		EA.					
4115000000	904	SIGN ERECTION, OVERLAY (OVERHEAD)		EA.	4138000000	907	DISPOSAL OF SUPPORT, STEEL BEAM		EA.					
4116000000	904	SIGN ERECTION, OVERLAY (GROUND MOUNTED)		EA.	4140000000	907	STOCKPILE SUPPORT, WOOD		EA.					
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE A (OVERHEAD)		EA.	4141000000	907	DISPOSAL OF SUPPORT, WOOD		EA.					
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE B (OVERHEAD)		EA.	4142000000	907	STOCKPILE SUPPORT, OVERHEAD STRUCTURE		EA.					
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE A (GROUND MOUNTED)		EA.	4143000000	907	DISPOSAL OF SUPPORT, OVERHEAD STRUCTURE		EA.					
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE B (GROUND MOUNTED)	5	EA.	4148000000	907	STOCKPILE SIGN SYSTEM, OVERHEAD		EA.					
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE D		EA.	4149000000	907	DISPOSAL OF SIGN SYSTEM, OVERHEAD		EA.					
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E	2	EA.	4151000000	907	STOCKPILE SIGN SYSTEM, STEEL BEAM		EA.					
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE F	1	EA.	4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM		EA.					
4116100000	904	SIGN ERECTION, RELOCATE SIGN MILEMARKERS		EA.	4154000000	907	STOCKPILE SIGN SYSTEM, U-CHANNEL		EA.					
4116200000	904	SIGN ERECTION, REPOSITION OVERHEAD		EA.	4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL		EA.					
4116300000	904	SIGN ERECTION, LOGO TO PANEL		EA.	4157000000	907	STOCKPILE SIGN SYSTEM, WOOD		EA.					
4116400000	904	SIGN ERECTION, LOGO TRAILBLAZER		EA.	4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD		EA.					
4116500000	904	SIGN ERECTION, WALKWAY		L.F.	4186000000	907	STOCKPILE SUPPORT, U-CHANNEL		EA.					
					4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL		EA.					
					4228000000	907	STOCKPILE SIGN, A OR B (OVERHEAD)		EA.					
					4234000000	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)		EA.					

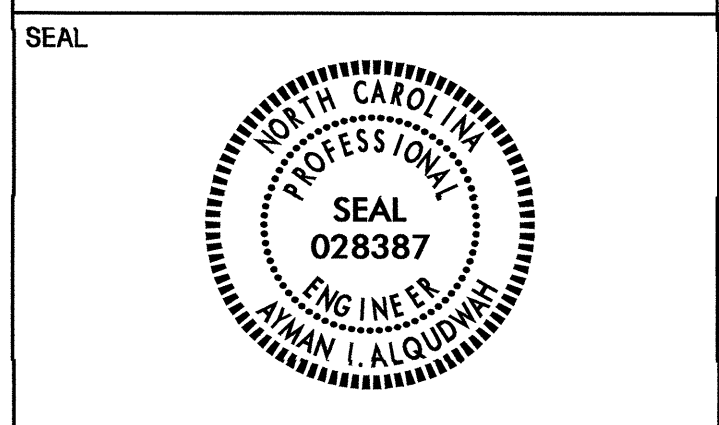
**ROADWAY STANDARD DRAWINGS
APPLICABLE TO THESE SIGNING PLANS**

901.10	901.70	904.30
901.20	903.10	904.40
901.30	903.30	904.50
901.40	904.10	
901.50	904.20	

SUMMARY OF QUANTITIES

28-AUG-2009 10:08 P:\projects\3833b\traffic\signing\cadd\Quantities & CM Signs\R-3833BQuantities.dgn Jgmar-Linez AT TELC221650

APPROVED: *[Signature]*
 DATE: 11/13/08



Pay Item Notes:


1	RELOCATE SIGN, TYPE E
2	RELOCATE SIGN, TYPE D
3	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
4	RELOCATE SIGN, TYPE A (GROUND MOUNTED)
5	DISPOSAL OF SIGN SYSTEM, WOOD
6	DISPOSAL OF SIGN SYSTEM, STEEL BEAM

General Notes:

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

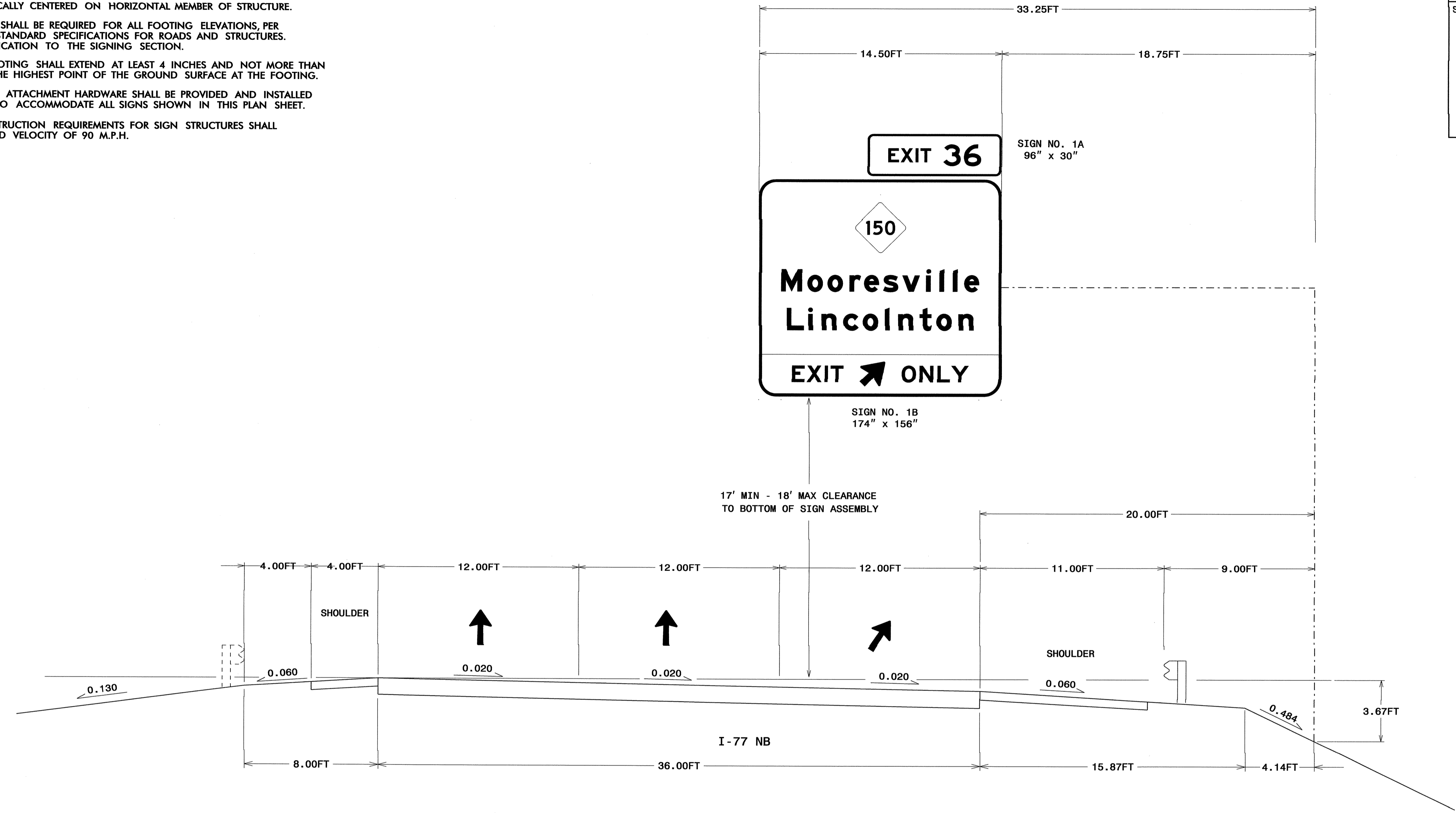
Project Notes:

NOTES

TIP NO. R-3833B	SHEET NO. SIGN-04
APPROVED: <i>[Signature]</i>	
DATE: 11/15/08	
SEAL	
	

NOTES:

- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
- DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.




OVERHEAD SIGN ASSEMBLY "A"
I-77 NB STA. 13+75+/-

I-77
OVERHEAD SIGN ASSEMBLY "A"
STA. 13+75+/-

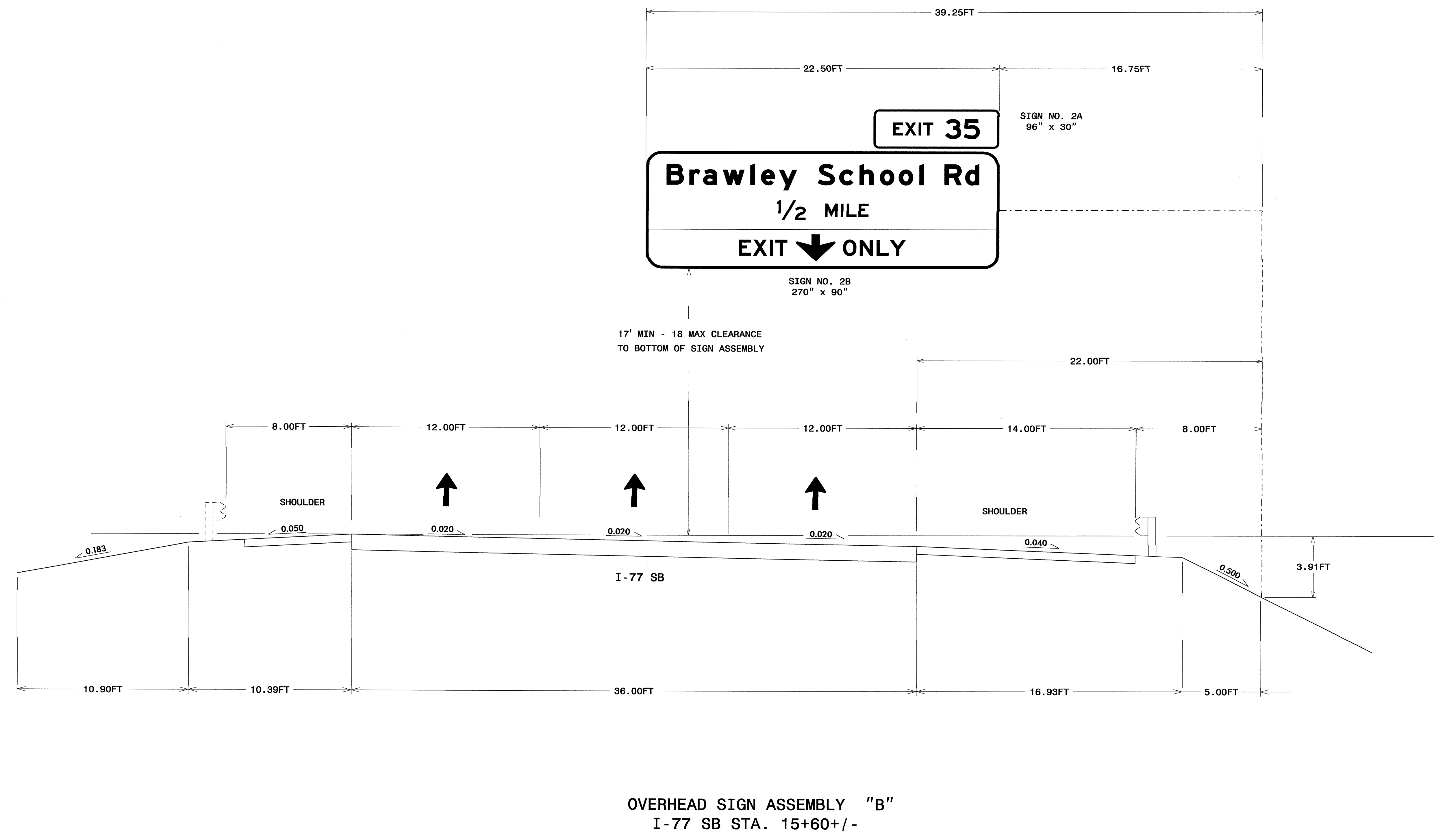
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TIP NO. R-3833B	SHEET NO. SIGN-05
APPROVED: <i>[Signature]</i>	
DATE: 11/13/08	
SEAL	



- NOTES:
- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
 - MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
 - FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
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 - SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
 - DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.



OVERHEAD SIGN ASSEMBLY "B"
I-77 SB STA. 15+60+/-

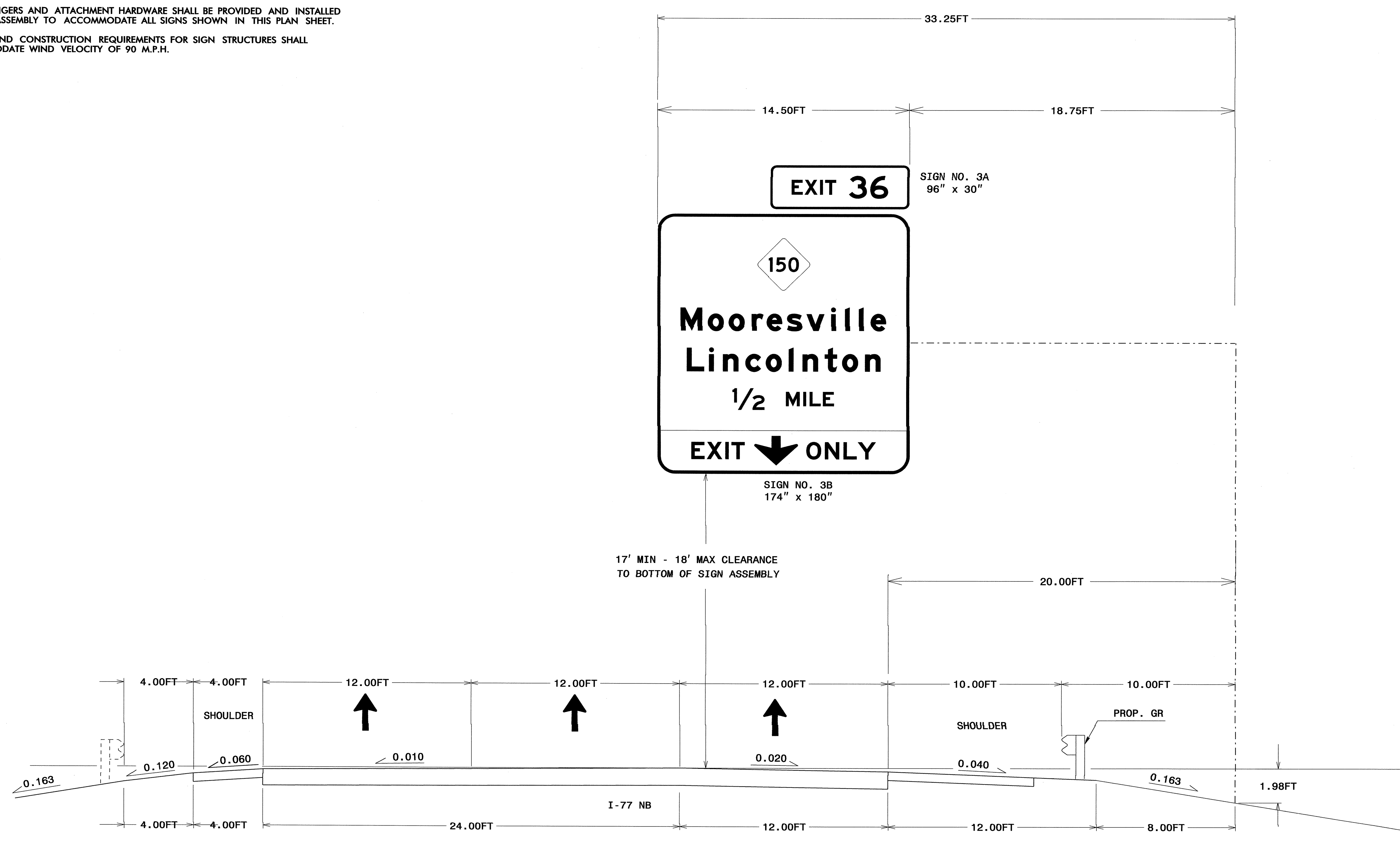
I-77
OVERHEAD SIGN ASSEMBLY "B"
STA. 15+60+/-

3ways 11/12/08 50pl

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TIP NO. R-3833B	SHEET NO. SIGN-06
APPROVED: <i>[Signature]</i>	
DATE: 11/13/08	
SEAL	

- NOTES:
- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
 - MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
 - FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
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 - DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.



OVERHEAD SIGN ASSEMBLY "C"
I-77 NB STA. 36+00 +/- -Y6-

I-77
OVERHEAD SIGN ASSEMBLY "C"
STA. 36+00 +/-

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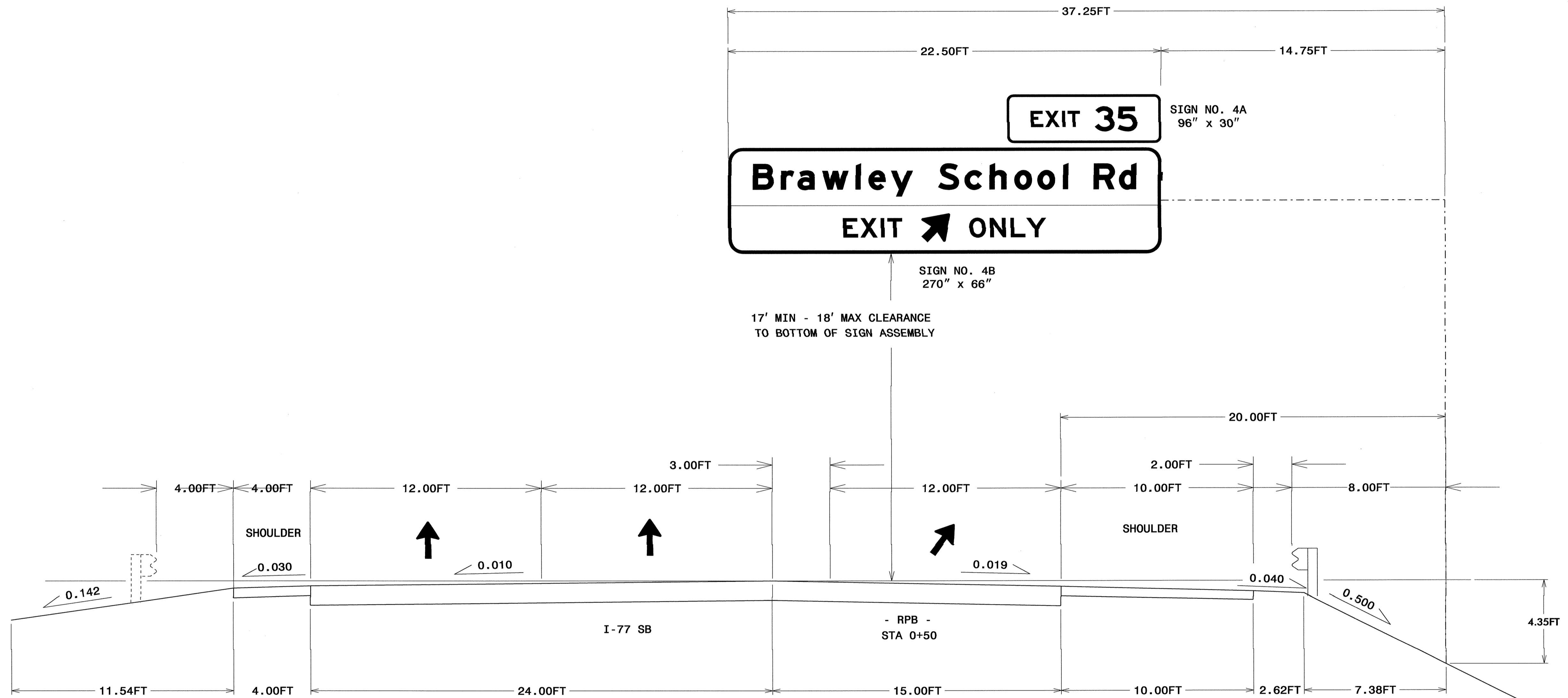
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 DATE: 11/13/08

SEAL




NOTES:

- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
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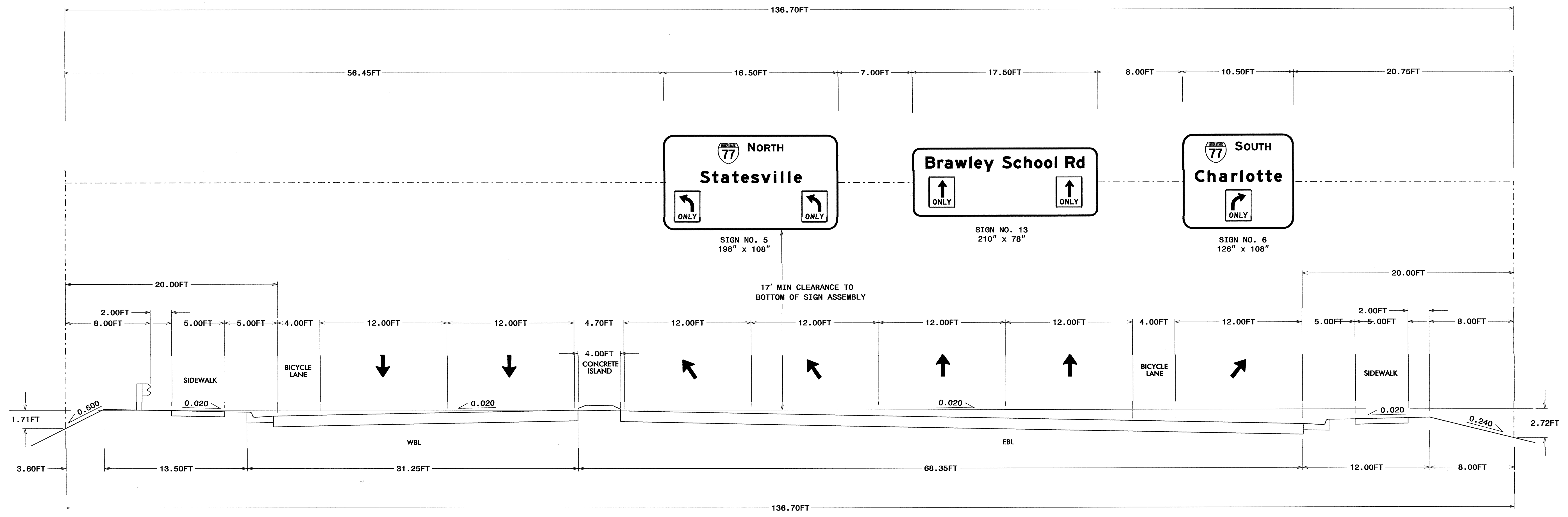
OVERHEAD SIGN ASSEMBLY "D"
 I-77 SB STA. 37+50 +/-

I-77
 OVERHEAD SIGN ASSEMBLY "D"
 STA. 37+50 +/-

TIP NO. R-3833B	SHEET NO. SIGN-08
APPROVED: <i>[Signature]</i>	
DATE: 11/3/08	
SEAL	
	

NOTES:

- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
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- DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.




OVERHEAD SIGN ASSEMBLY "E"
BRAWLEY SCHOOL RD STA. 274+50 -L-

BRAWLEY SCHOOL RD
OVERHEAD SIGN ASSEMBLY "E"
STA. 274+50

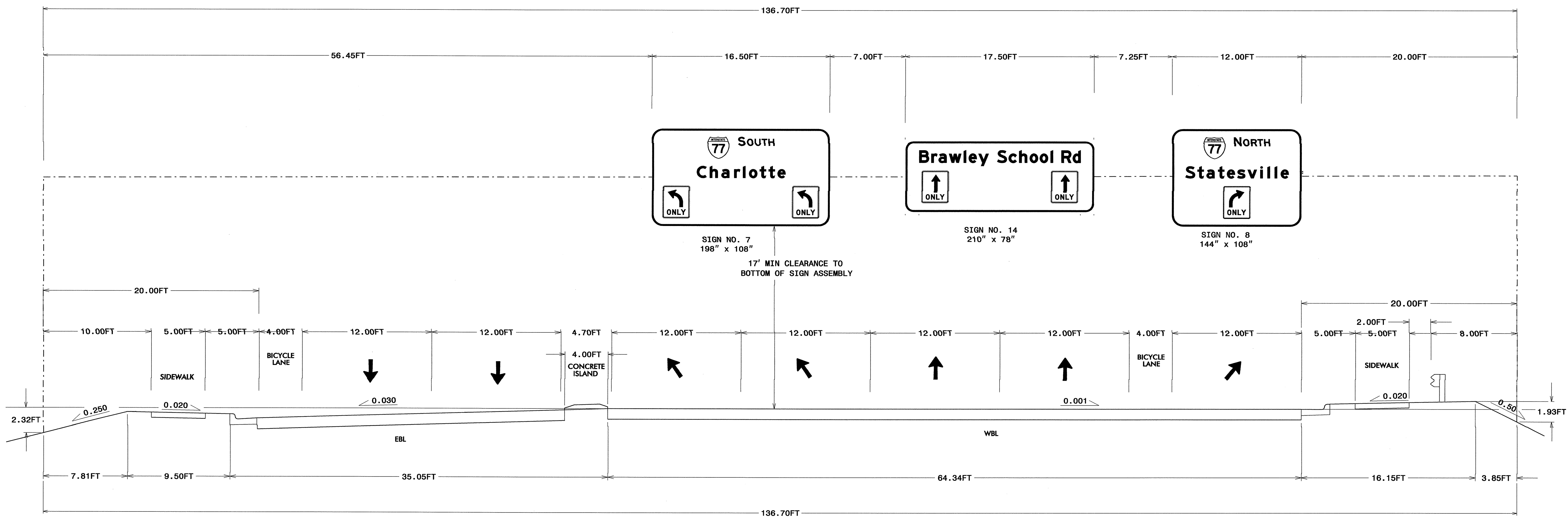
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3way 11/2/08 SQ

TIP NO. R-3833B	SHEET NO. SIGN-09
APPROVED: <i>[Signature]</i>	
DATE: 11/13/08	
SEAL	
	

NOTES:

- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
- DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.




OVERHEAD SIGN ASSEMBLY "F"
BRAWLEY SCHOOL RD STA. 281+00 -L-

BRAWLEY SCHOOL RD
OVERHEAD SIGN ASSEMBLY "F"
STA. 281+00

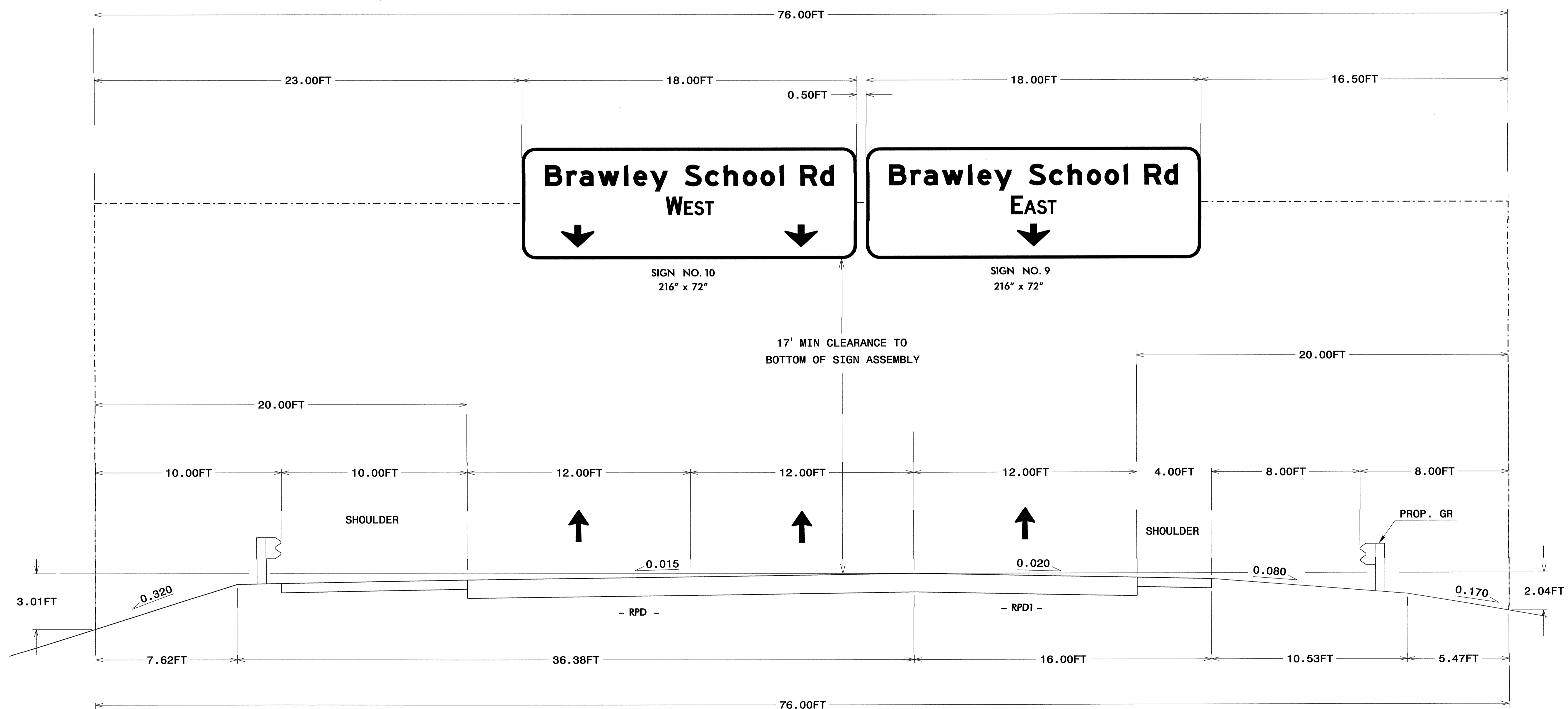
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 wdekduk

3way 11/12/08 59dms

TIP NO. R-3833B	SHEET NO. SIGN-10
APPROVED: <i>[Signature]</i>	
DATE: 11/13/08	
SEAL	
	

NOTES:

- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
- DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.




OVERHEAD SIGN ASSEMBLY "G"
-RPD- & -RPD1- STA. 14+22 +/-

-RPD- AND -RPD1-
OVERHEAD SIGN ASSEMBLY "G"
STA 14+22 +/-

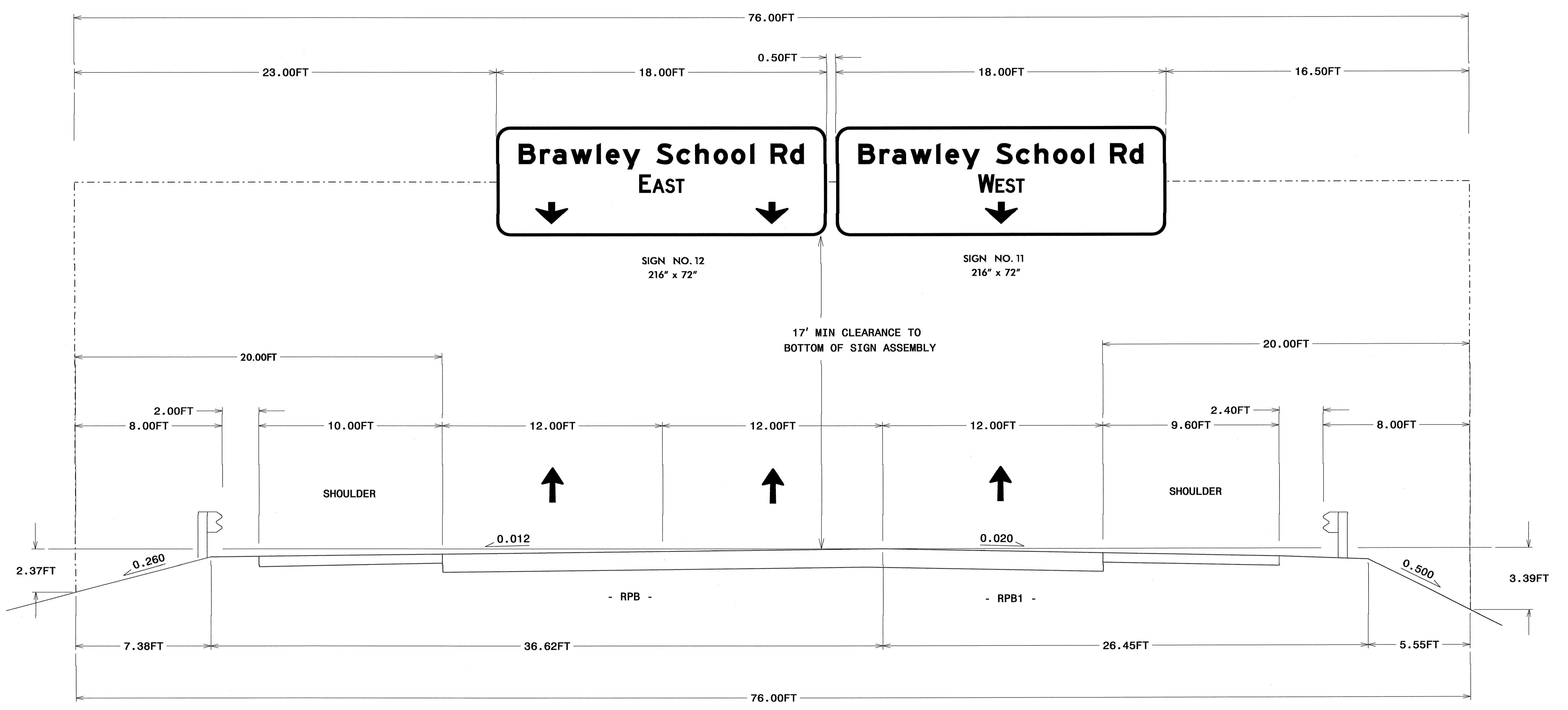
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 wdkakduk

3way 11/12/08 SQah

TIP NO. R-3833B	SHEET NO. SIGN-11
APPROVED: <i>Ayman I. Al-Qudus</i>	
DATE: 11/13/08	
SEAL	
	

NOTES:

1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST MCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
6. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.



OVERHEAD SIGN ASSEMBLY "H"
-RPB- & -RPB1- STA. 16+50+/-

-RPB- AND -RPB1-
OVERHEAD SIGN ASSEMBLY "H"
STA 16+50+/-

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 wdekduk 11/12/08

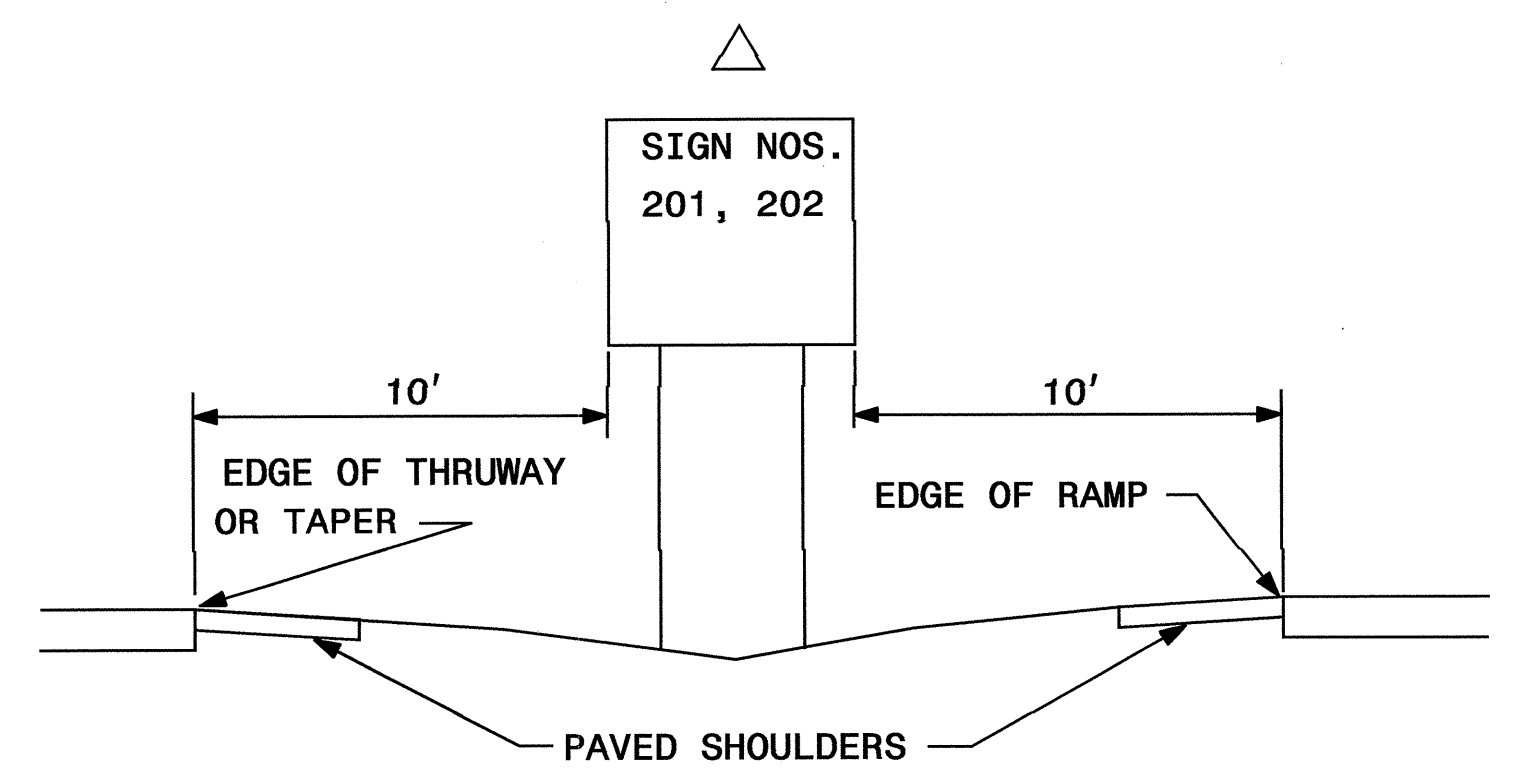
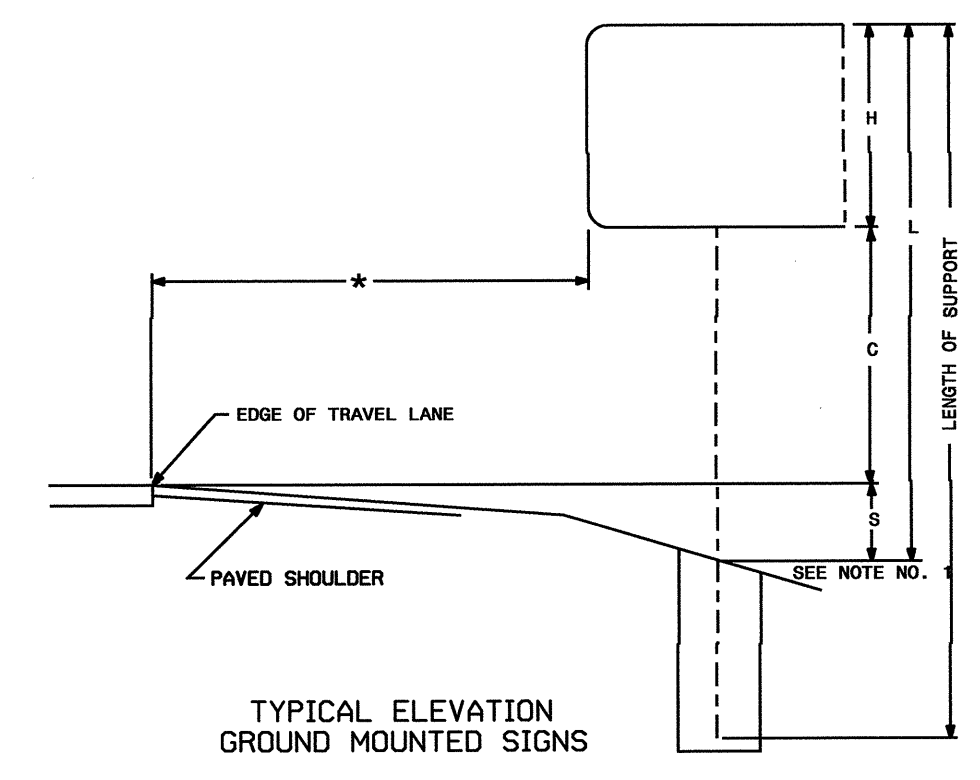
Bway 11/12/08 SQ

TIP NO. R-3833B	SHEET NO. SIGN-12
APPROVED: <i>[Signature]</i>	
DATE: 11/13/08	
SEAL	

SIGN NO.	SIGN TYPE	SIGN SIZE (in.)			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)			FOOTIN DIAMET (ft.)	FOOTING DEPTH (ft.)	B/A SUPPORT WEIGHTS (lbs.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REINF. FTGS. (c.y.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
		w	x	h								SNS HT H	MTG HT C	EMBED-MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH						
101A	B	96	X	30	61+00	2	W6x12	BA	1-R	N/A	18.00	8.00	7.20	5.5	1.66	16.86	22.36	0.00	0.00	0.00	-0.20	15.00	20.50	1.5	6	599.68	0.00	0.79	
101B	A	150	X	96																									
102A	B	96	X	30	See Sheet 30	3	W6x9	S	1-R	N/A	19.50	5.50	7.00	5	2.08	14.58	19.58	1.78	14.28	19.28	1.08	13.58	18.58	1.5	5.5	0.00	516.96	1.08	
102B	A	270	X	66																									
103	A	162	X	96	30+50	2	W6x12	BA	N/A	N/A	20.00	8.00	10.24	5	-0.61	17.63	22.63	0.00	0.00	0.00	-3.24	15.00	20.00	1.5	5.5	596.92	0.00	0.72	
104A	B	96	X	30	See Sheet 33	3	W6x9	S	1-R	N/A	19.50	5.50	7.00	5	2.08	14.58	19.58	1.78	14.28	19.28	1.08	13.58	18.58	1.5	5.5	0.00	516.96	1.08	
104B	A	270	X	66																									
105A	B	96	X	30	See Sheet 33	3	W6x12	BA	1-R	N/A	18.00	5.50	9.16	5.5	3.09	17.75	23.25	0.75	15.41	20.91	-2.16	12.50	18.00	1.5	6	873.96	0.00	1.18	
105B	A	270	X	66																									
106A	B	96	X	30	77+00	3	W6x9	BA	1-R	N/A	24.17	3.50	8.74	4.5	3.62	15.86	20.36	2.64	14.88	19.38	-1.74	10.50	15.00	1.5	5	587.34	0.00	0.98	
106B	A	306	X	42																									
107	A	174	X	66	85+00	2	W6x9	BA	N/A	N/A	18.00	5.50	7.54	4.5	3.03	16.07	20.57	0.00	0.00	0.00	-0.54	12.50	17.00	1.5	5	401.25	0.00	0.65	
201	A	72	X	60	43+50	2	S3x5.7	BA	N/A	N/A	△	5.00	7.00	3.5	0.10	12.10	15.60	0.00	0.00	0.00	0.10	12.10	15.60	1	4	213.37	0.00	0.23	
202	A	72	X	60	68+00	2	S3x5.7	BA	N/A	N/A	△	5.00	7.00	3.5	0.10	12.10	15.60	0.00	0.00	0.00	0.10	12.10	15.60	1	4	213.37	0.00	0.23	
901	A	180	X	120	61+00	2	W6x16	BA	N/A	N/A	18.00	10.00	11.21	6.5	1.29	22.50	29.00	0.00	0.00	0.00	-4.21	17.00	23.50	1.5	7	972.38	0.00	0.92	
902	A	180	X	120	49+50	2	W6x16	BA	N/A	N/A	18.00	10.00	8.43	6	0.64	19.07	25.07	0.00	0.00	0.00	-1.43	17.00	23.00	1.5	6.5	901.50	0.00	0.85	
903	A	180	X	120	19+50	2	W6x16	BA	N/A	N/A	18.00	10.00	10.05	6	-1.40	18.65	24.65	0.00	0.00	0.00	-3.05	17.00	23.00	1.5	6.5	894.78	0.00	0.85	
904	A	180	X	162	25+00	2	W8x18	BA	N/A	N/A	18.00	13.50	10.01	6.5	-0.09	23.42	29.92	0.00	0.00	0.00	-3.01	20.50	27.00	2.00	7	1186.68	0.00	1.63	
905	A	180	X	72	See Sheet 33	2	W6x9	BA	N/A	N/A	18.00	6.00	9.63	5	3.00	18.63	23.63	0.00	0.00	0.00	-2.63	13.00	18.00	1.50	5.5	437.79	0.00	0.72	
																							TOTAL	TOTAL	TOTAL				
																							7279.37	1033.92	11.13				
USE:																							7280	1034	12				

NOTES

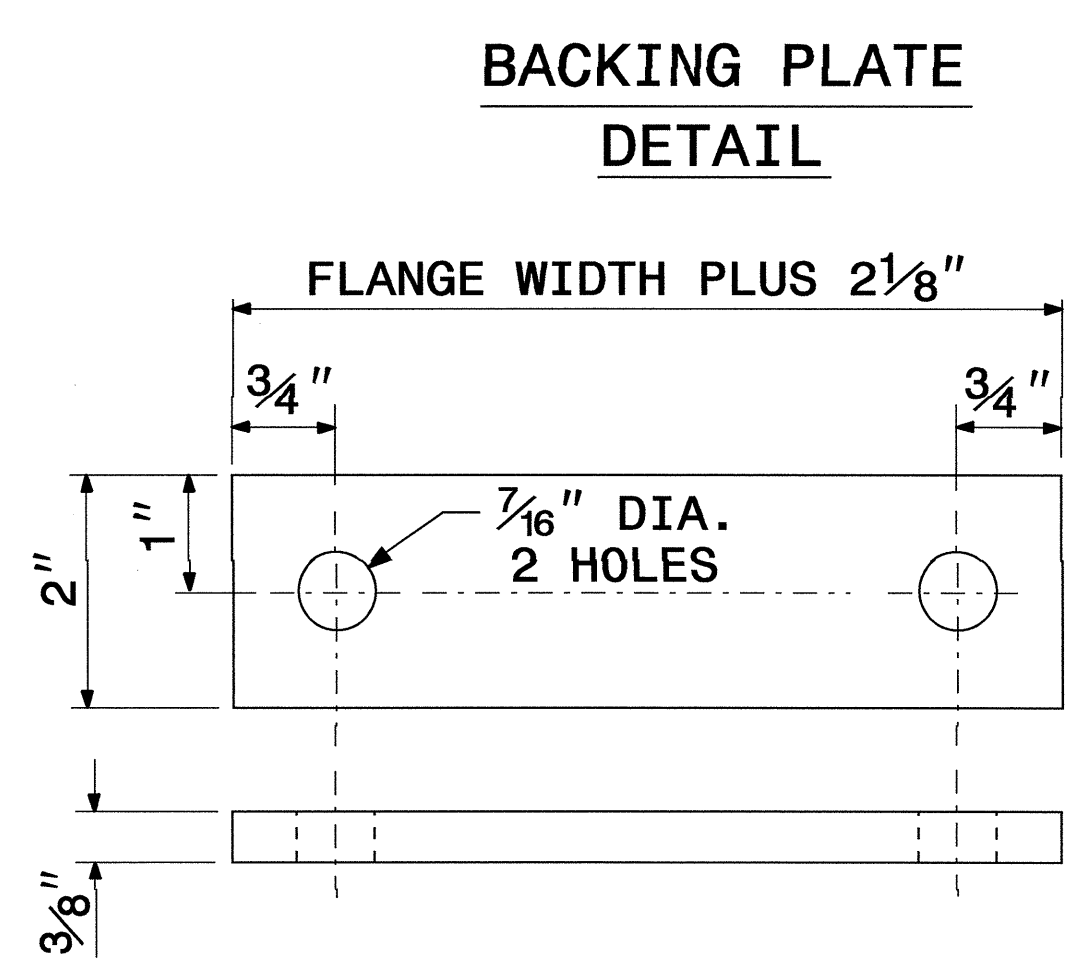
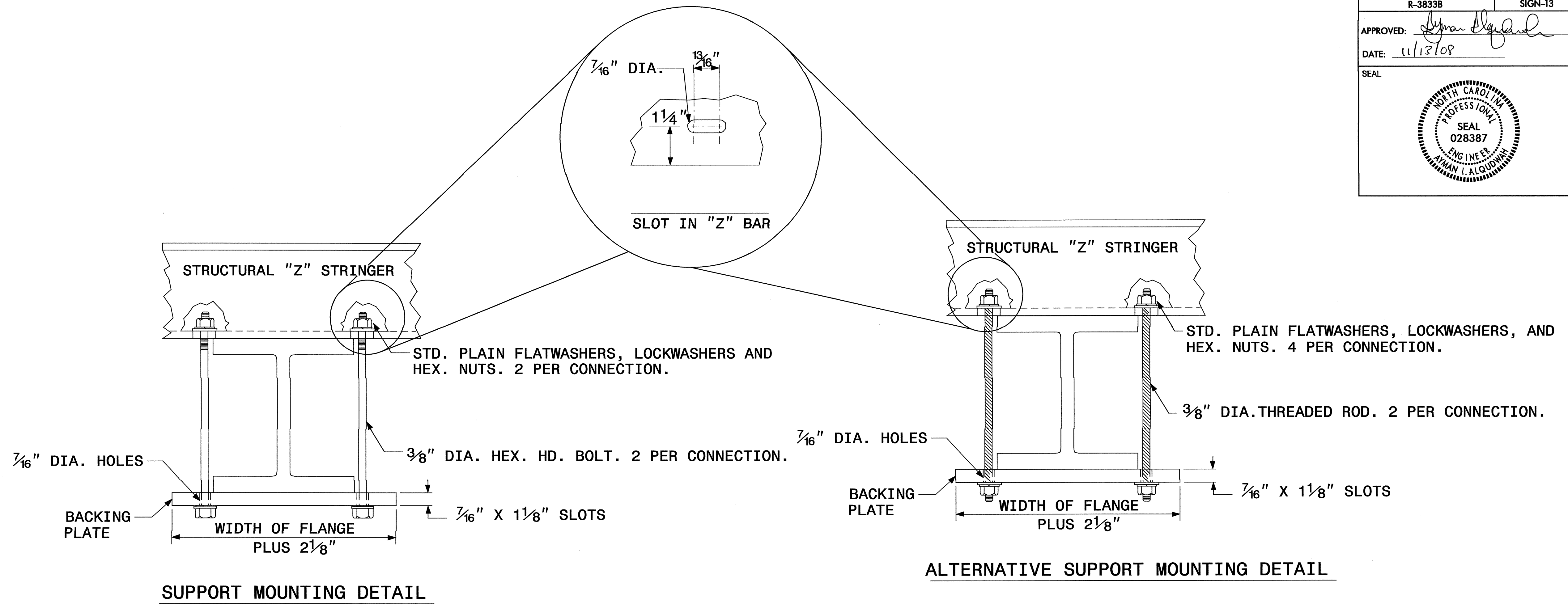
- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.
- FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (*) ARTICLE 903-3. FABRICATORS SHALL BE ALSO CERTIFIED IN CATEGORY 1, SEE (*) ARTICLE 1072-1. (*) = N.C.D.O.T.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



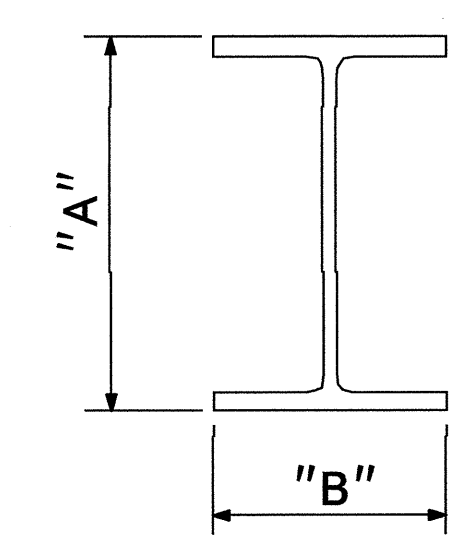
**TYPE "A" AND "B"
GROUND MOUNTED SIGNS**

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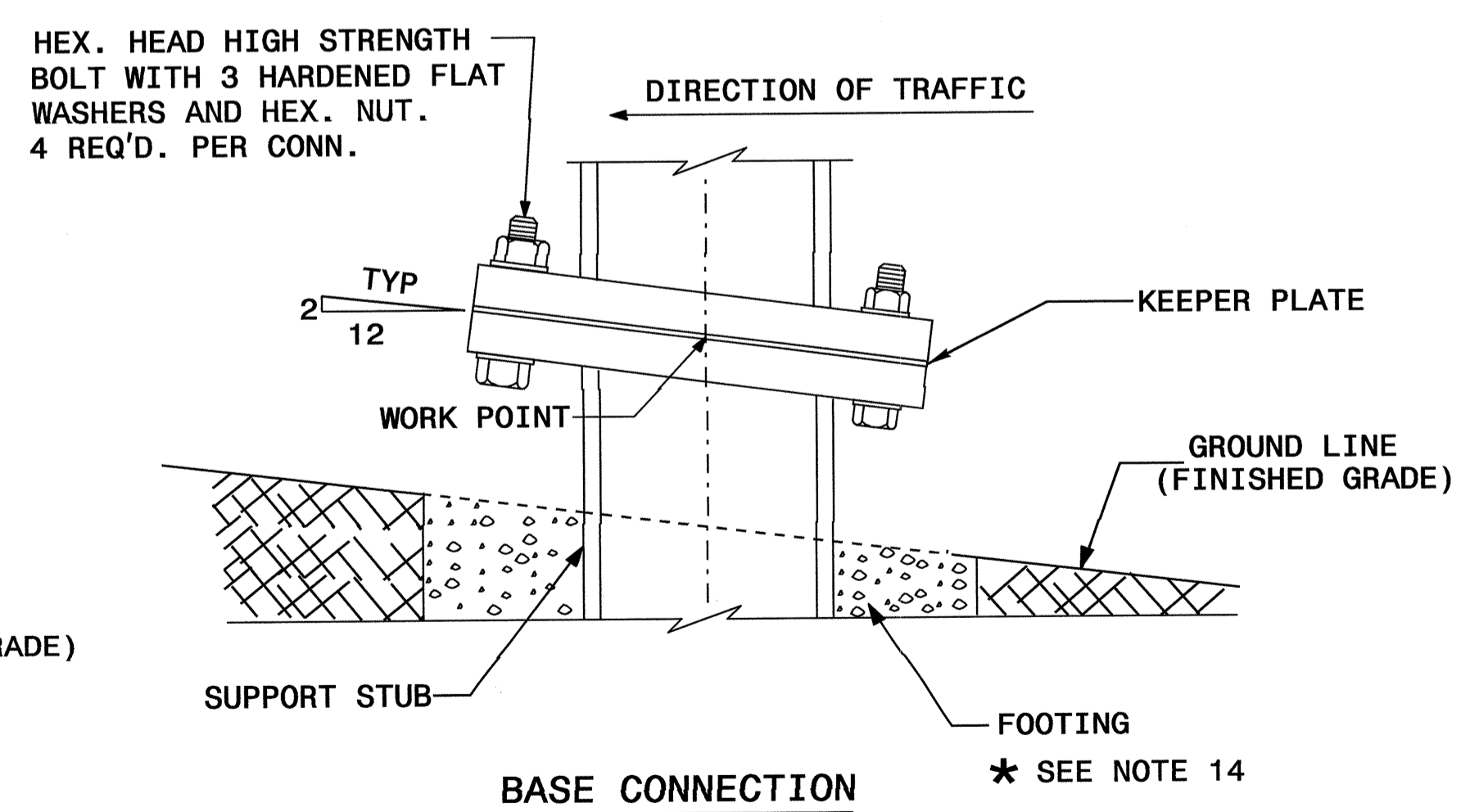
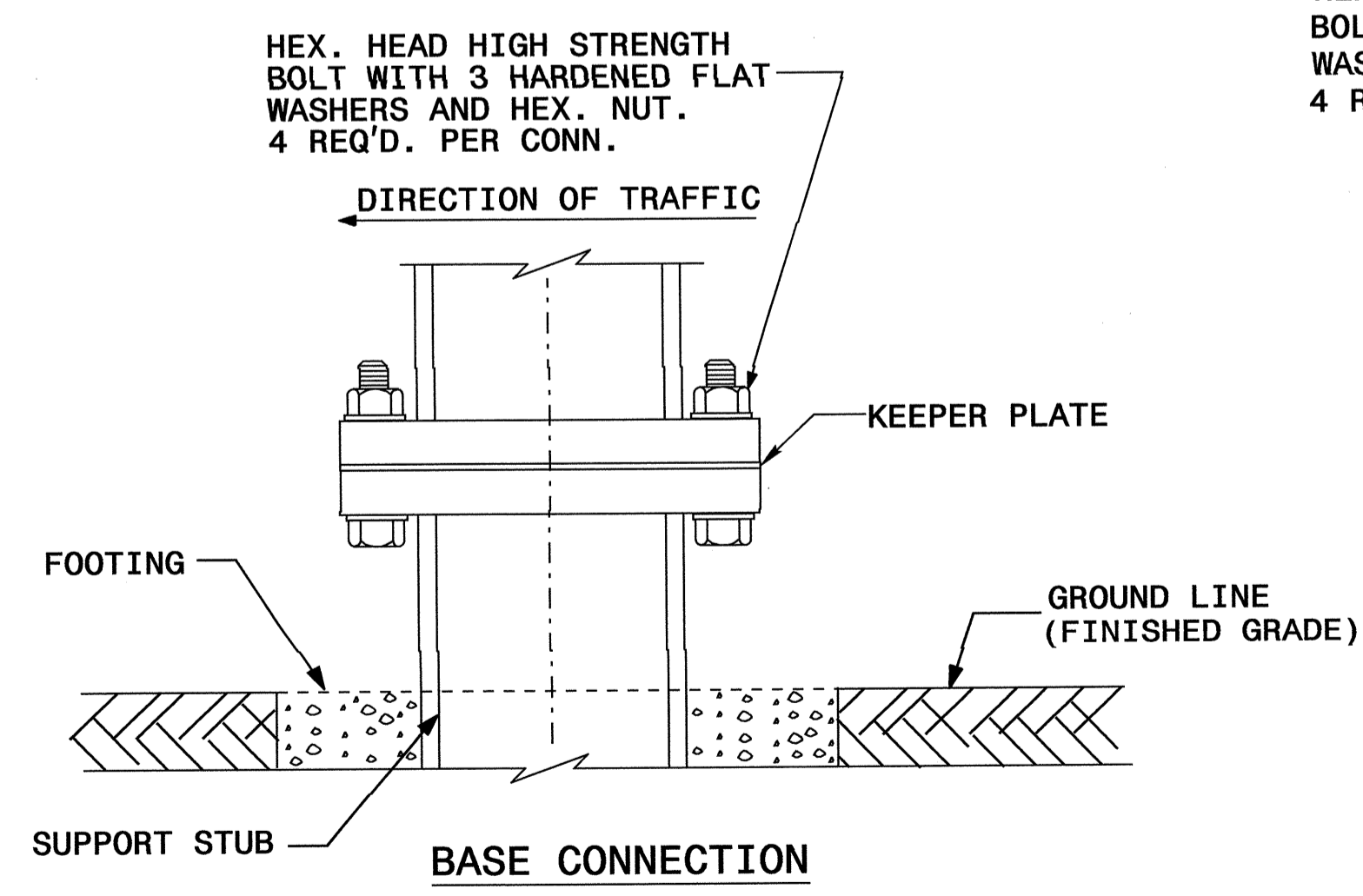
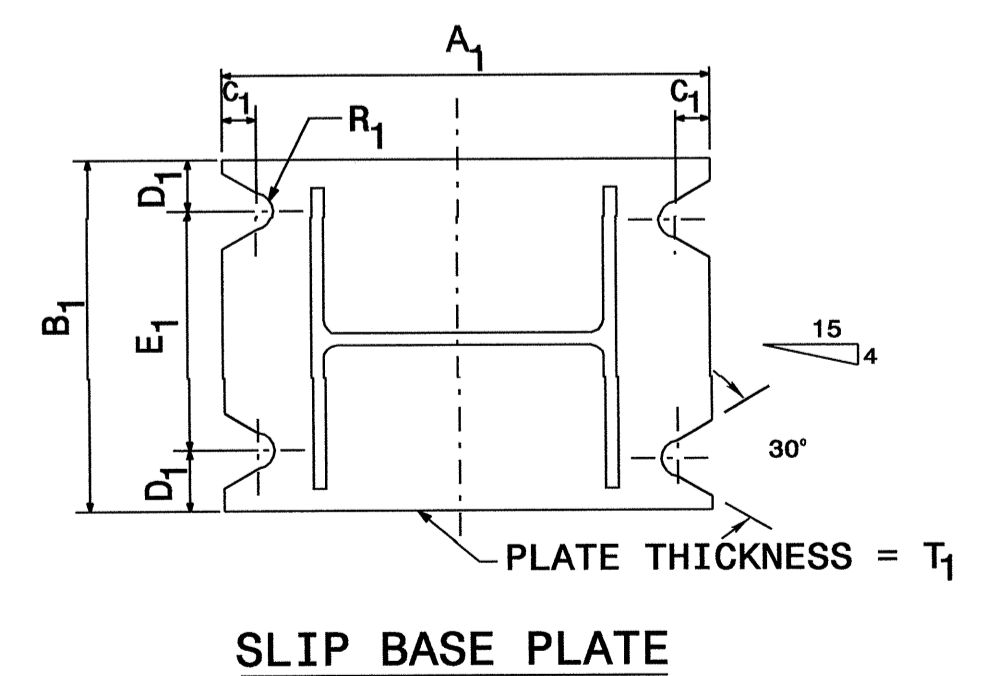
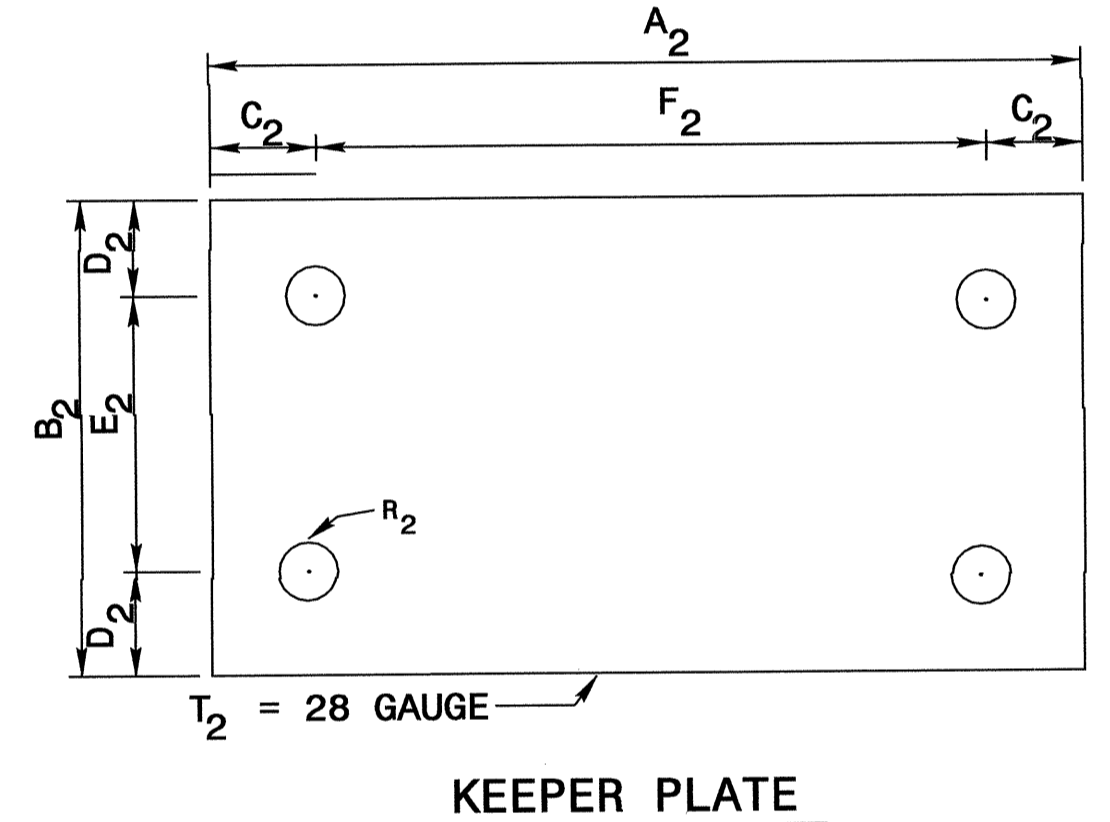
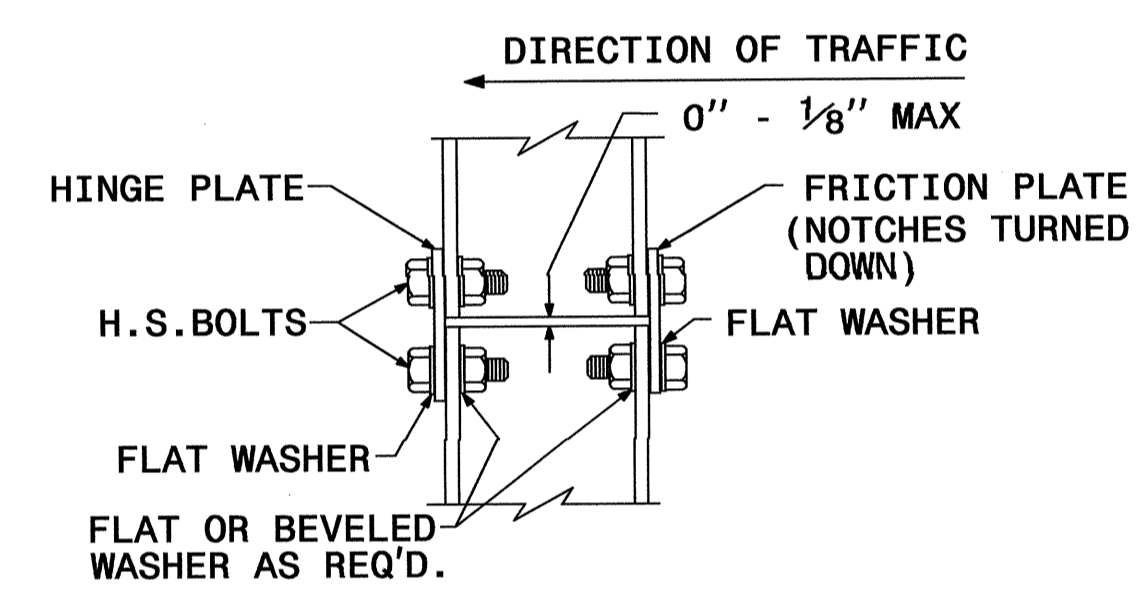
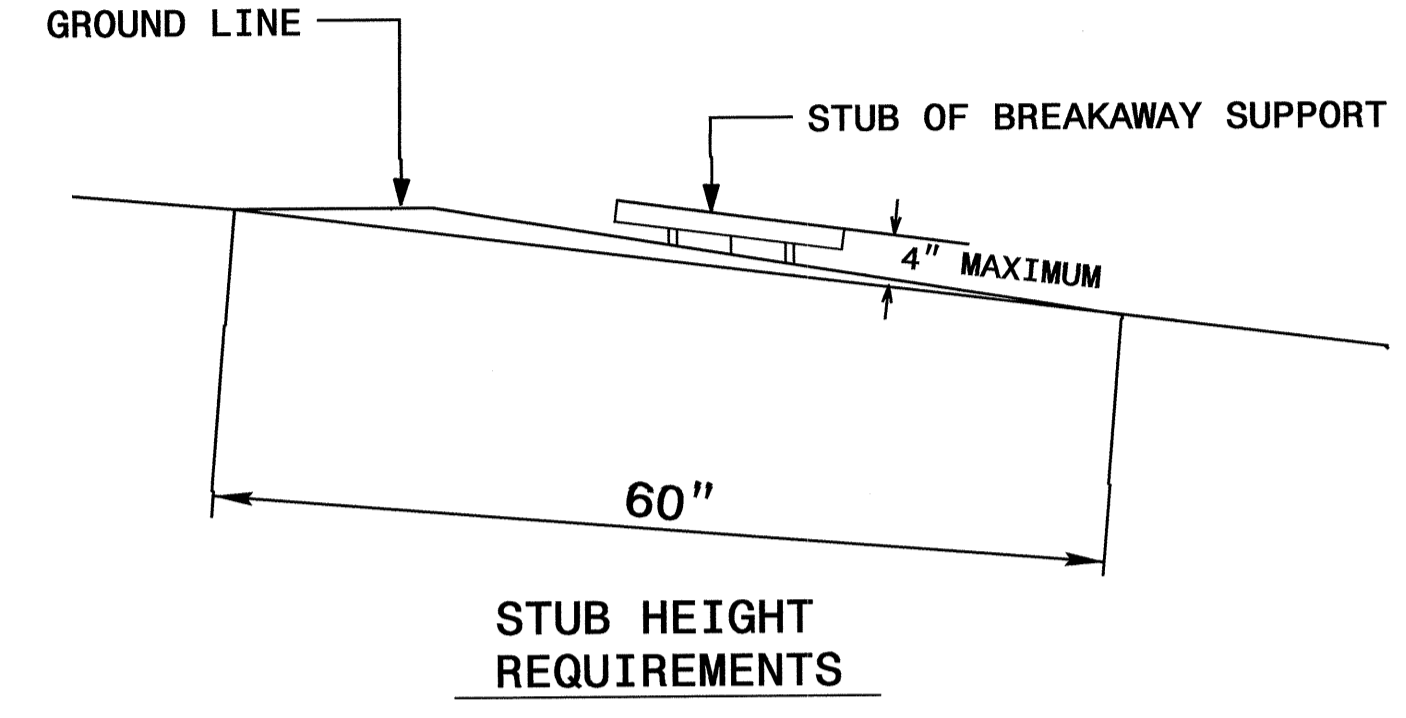
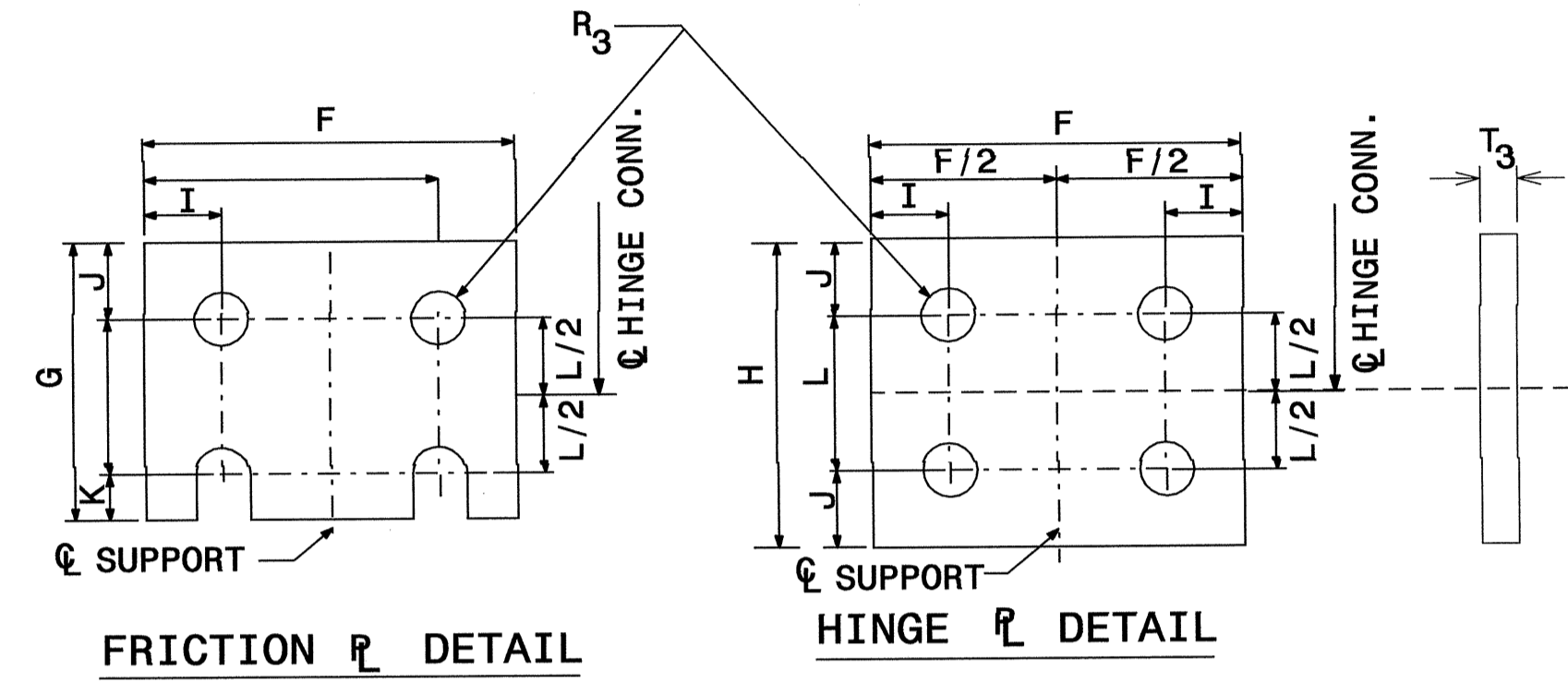
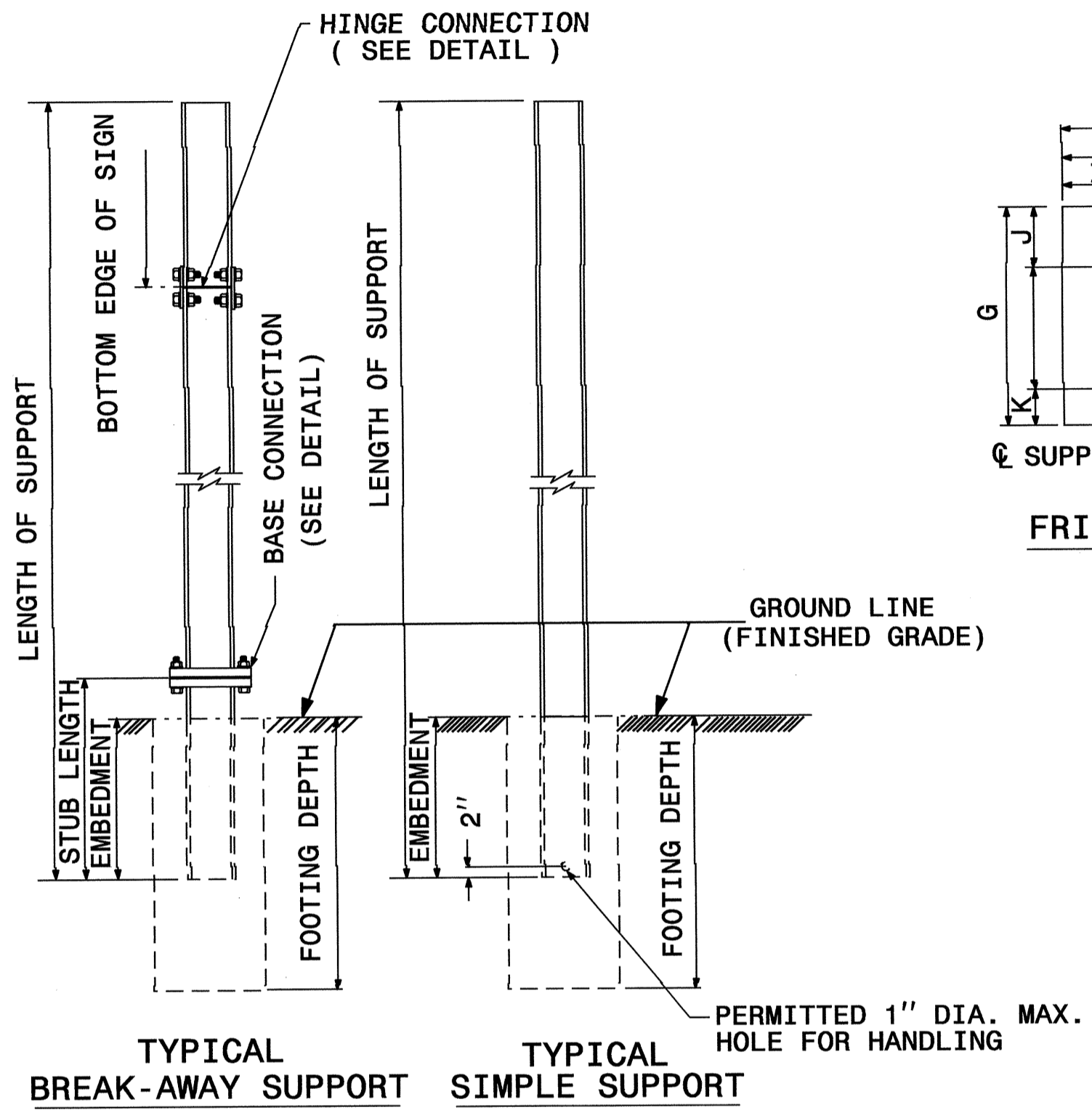
SIGN SUPPORTS SECTION DIMENSIONS



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


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 MOUNTING DETAILS



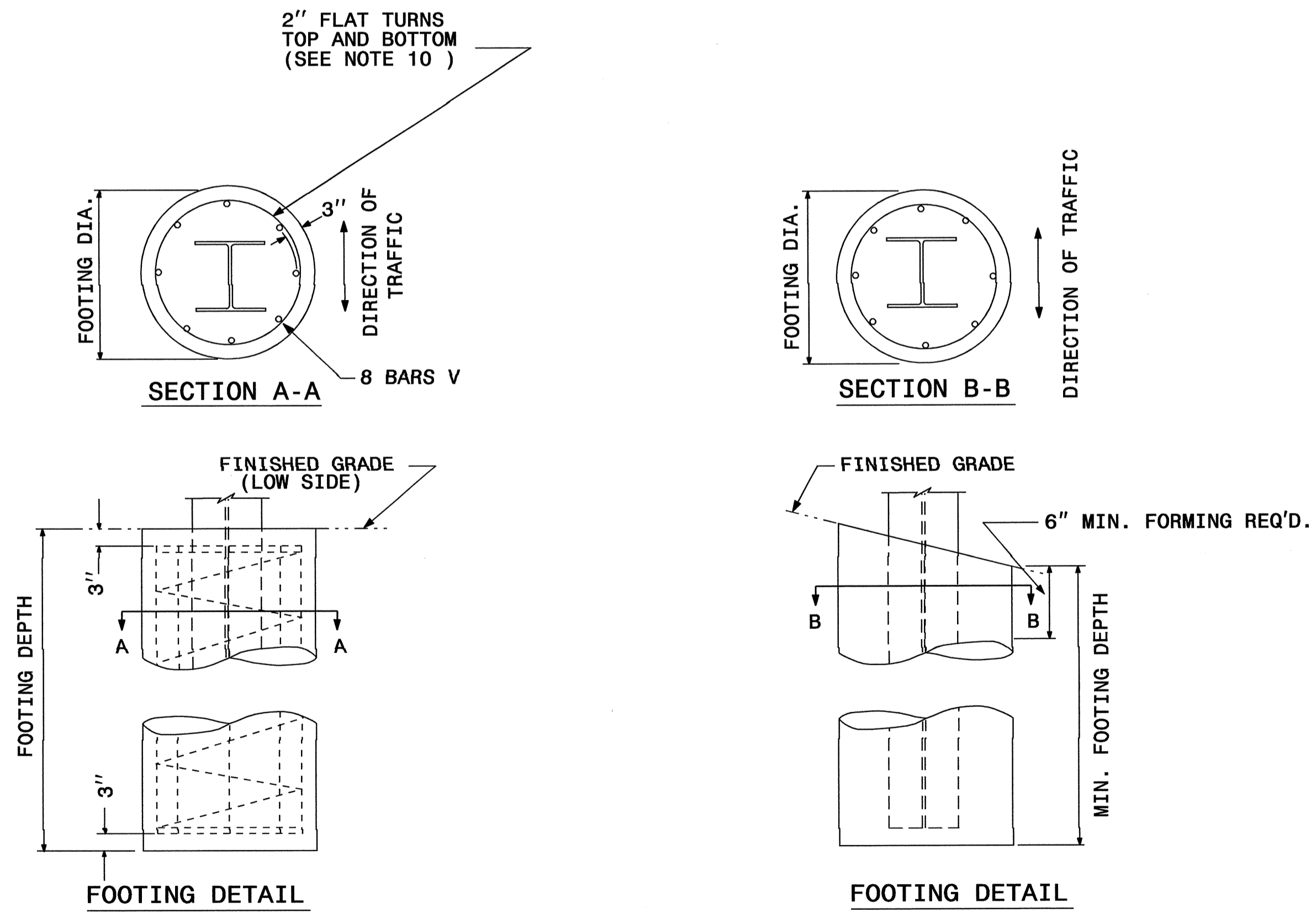
GROUND MOUNTED SIGN SUPPORT

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TIP NO. R-3833B	SHEET NO. SIGN-15
APPROVED: <i>[Signature]</i>	
DATE: 1/13/08	
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"	1 1/32"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/32"	28 GAUGE	5/8"DIA.X2 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.X3 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.X2 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.X2 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.X2 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.X2 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.X4 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.X2 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.X4 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.X2 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.X3"	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.X3 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.X3 1/4"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	3/4"	243
W18X40	1"DIA.X5 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.X3 3/4"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	7/8"	278
W21X44	1"DIA.X5 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.X3 3/4"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	7/8"	310

2" FLAT TURNS
TOP AND BOTTOM
(SEE NOTE 10)




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

GROUND MOUNTED SIGN SUPPORT

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 wdekduk

TIP NO. R-3833B	SHEET NO. SIGN-16
APPROVED: <i>[Signature]</i>	
DATE: 11/15/08	
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. R-3833B SHEET NO. SIGN-17

APPROVED: *[Signature]*

DATE: 11/13/08

SEAL

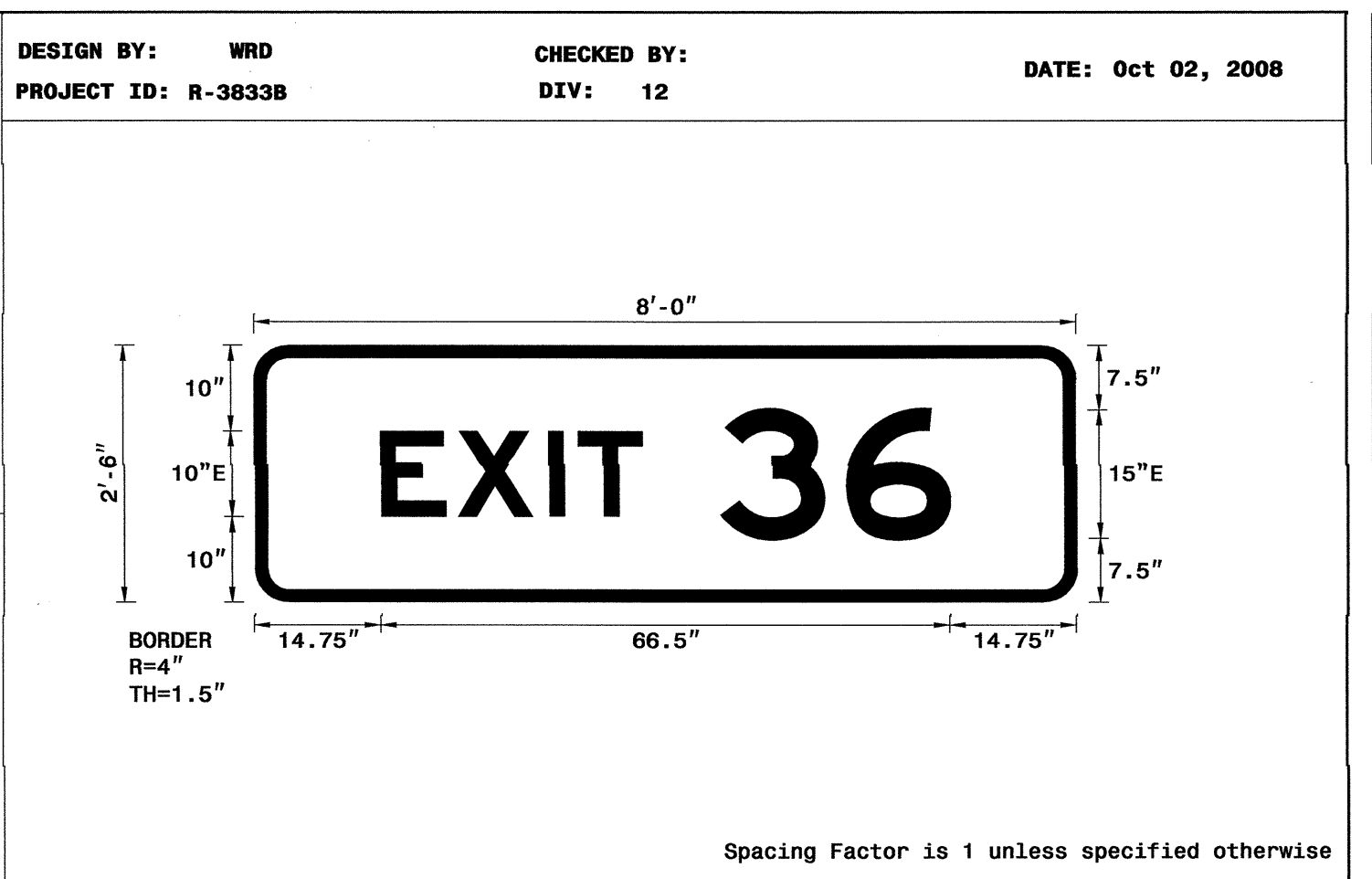
SIGN NUMBER: 1A, 3A
 TYPE: B
 QUANTITY: 2
 SIGN WIDTH: 8'-0"
 HEIGHT: 2'-6"
 TOTAL AREA: 20.0 Sq.Ft.

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1.5"
 RADII: 4"

NO. Z BARS: 4
 LENGTH: 0.125" (3.2 mm) ALUMINUM



USE NOTES: 1, 2

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

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	66.5

NORTH CAROLINA D.O.T. SIGN DETAIL

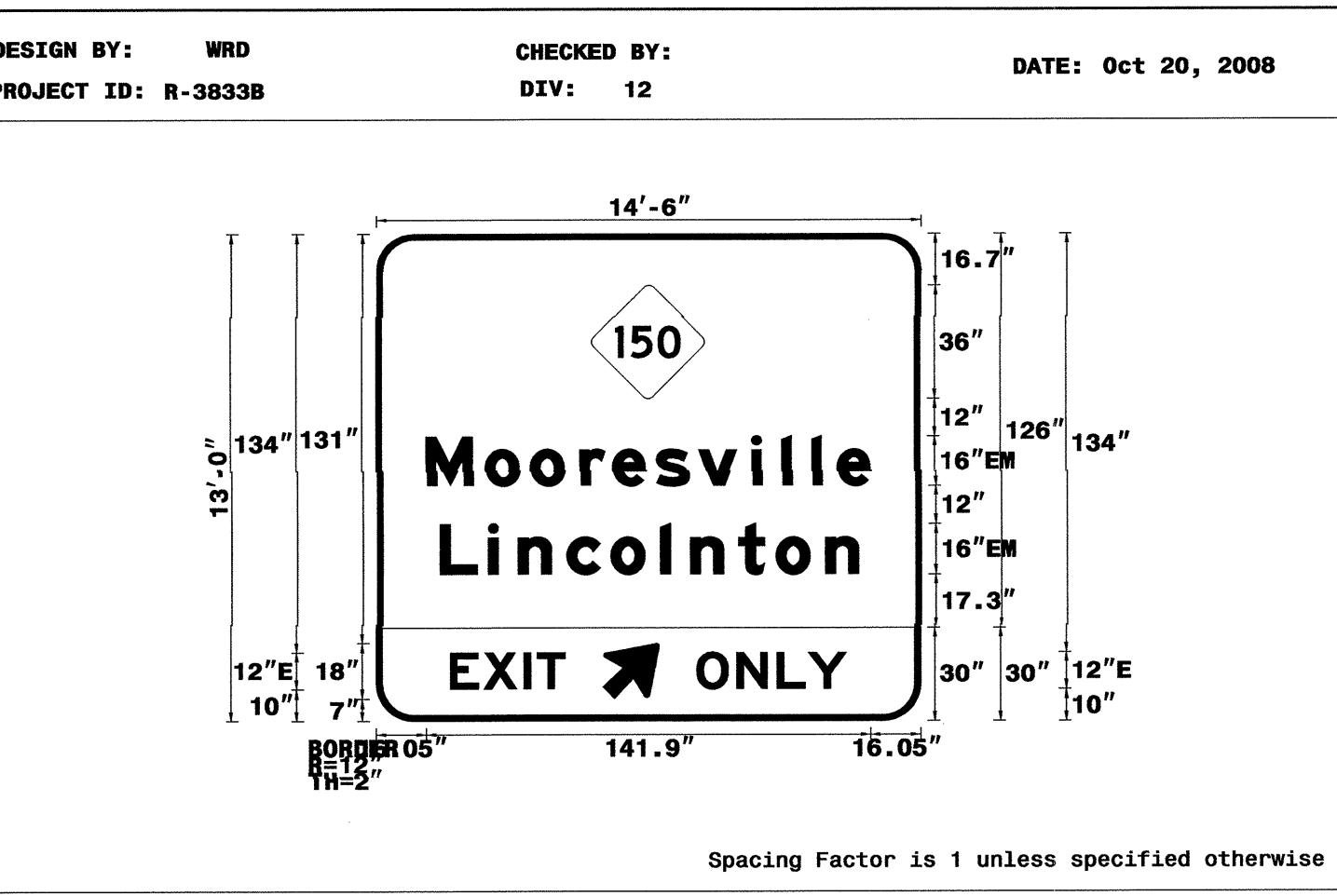
SIGN NUMBER: 1B
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 14'-6"
 HEIGHT: 13'-0"
 TOTAL AREA: 188.5 Sq.Ft.

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
NC36SB	69	103.3	36	36
ARSHRT	72.4	7	20	22.5

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

NO. Z BARS: 4
 LENGTH: 166.0 0.125" (3.2 mm) ALUMINUM



USE NOTES: 1, 2, 3, 4, 5

- 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.

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	141.9
EM 2000	133.8
E 2000	36.7
E 2000	47.9

NORTH CAROLINA D.O.T. SIGN DETAIL

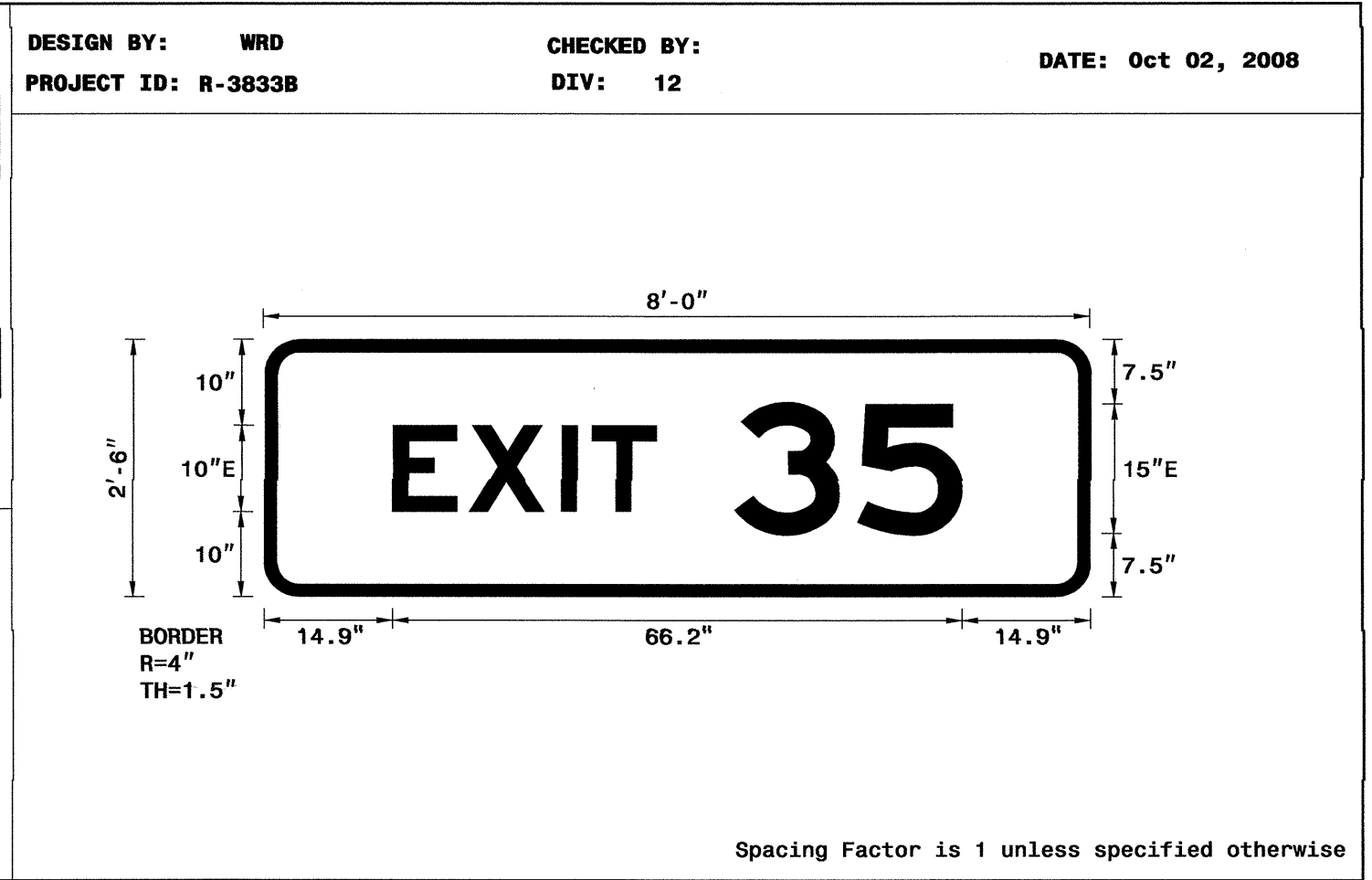
SIGN NUMBER: 2A, 4A
 TYPE: B
 QUANTITY: 2
 SIGN WIDTH: 8'-0"
 HEIGHT: 2'-6"
 TOTAL AREA: 20.0 Sq.Ft.

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1.5"
 RADII: 4"

NO. Z BARS: 4
 LENGTH: 0.125" (3.2 mm) ALUMINUM



USE NOTES: 1, 2

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

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	66.2

NORTH CAROLINA D.O.T. SIGN DETAIL

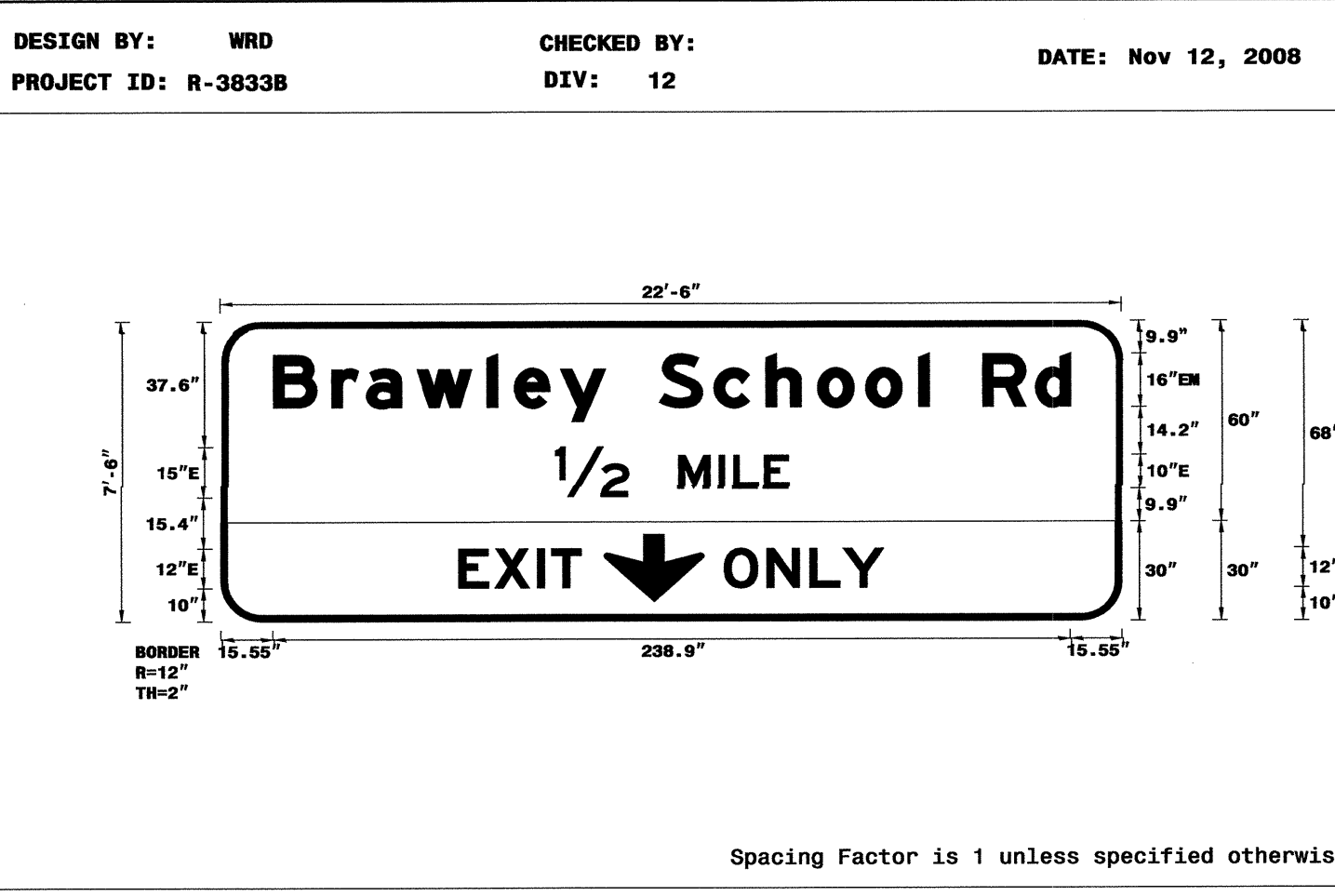
SIGN NUMBER: 2B
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 22'-6"
 HEIGHT: 7'-6"
 TOTAL AREA: 168.8 Sq.Ft.

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT

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

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



USE NOTES: 1, 2, 5

- 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, B, or C sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting.

LETTER POSITIONS

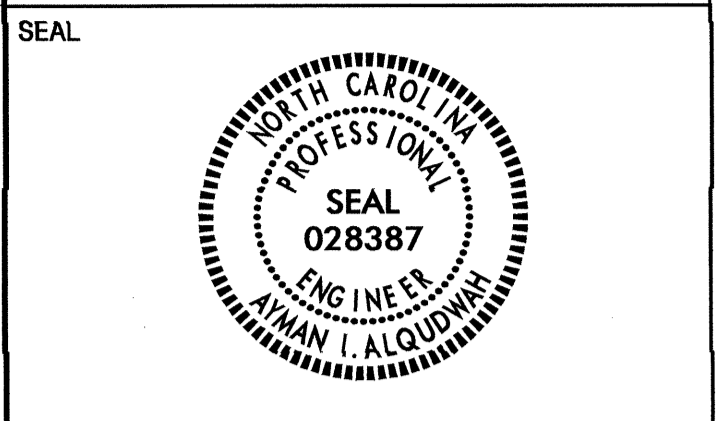
Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	238.9
E 2000	70.1
E 2000	36.7
E 2000	47.9

NORTH CAROLINA D.O.T. SIGN DETAIL

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APPROVED: *[Signature]*
DATE: 11/13/08



SIGN NUMBER: 3B
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
NC363B	69	126.9	36	36

SIGN WIDTH: 14'-6"
HEIGHT: 15'-0"
TOTAL AREA: 217.5 Sq.Ft.

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

NO. Z BARS: 6
LENGTH: 166.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1, 2, 3, 4, 5

- 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.

DESIGN BY: WRD
PROJECT ID: R-3833B

CHECKED BY:
DIV: 12

DATE: Nov 12, 2008

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter	M	O	O	R	E	S	V	I	L	L	E	1/2	M	I	L	E	E	X	I	T	O	N	L	Y
Series/Size	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	E 2000	E 2000	E 2000	E 2000	E 2000	E 2000	E 2000	E 2000	E 2000	E 2000	E 2000	E 2000	E 2000
Text Length	141.9	133.8	70.1	36.7	47.9																			

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 4B
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARSHRT	120.4	7	20	22.5

SIGN WIDTH: 22'-6"
HEIGHT: 5'-6"
TOTAL AREA: 123.8 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 9"

NO. Z BARS: 2
LENGTH: 262.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1, 2, 5

- 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, B, or C sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting.

DESIGN BY: WRD
PROJECT ID: R-3833B

CHECKED BY:
DIV: 12

DATE: Nov 04, 2008

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter	B	r	a	w	l	e	y	S	c	h	o	o	l	R	d	E	X	I	T	O	N	L	Y
Series/Size	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	E 2000	E 2000	E 2000	E 2000	E 2000	E 2000	E 2000	E 2000
Text Length	238.9	133.8	36.7	47.9																			

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 5
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	62	75	24	24
R3_5L	12	8.7	30	36
R3_5L	156	8.7	30	36

SIGN WIDTH: 16'-6"
HEIGHT: 9'-0"
TOTAL AREA: 148.5 Sq.Ft.

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

NO. Z BARS: 3
LENGTH: 190.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

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.

DESIGN BY: WRD
PROJECT ID: R-3833B

CHECKED BY:
DIV: 12

DATE: Nov 04, 2008

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter	N	O	R	T	H	S	t	a	t	e	s	v	i	l	e
Series/Size	E 2000	E 2000	E 2000	E 2000	E 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000
Text Length	40	115													

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 6
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	25.8	75	24	24
R3_5R	48	8.7	30	36

SIGN WIDTH: 10'-6"
HEIGHT: 9'-0"
TOTAL AREA: 94.5 Sq.Ft.

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

NO. Z BARS: 3
LENGTH: 118.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

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.

DESIGN BY: WRD
PROJECT ID: R-3833B

CHECKED BY:
DIV: 12

DATE: Nov 04, 2008

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter	S	O	U	T	H	C	h	a	r	l	o	t	t	e
Series/Size	E 2000	E 2000	E 2000	E 2000	E 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000	EM 2000
Text Length	40.4	98.8												

NORTH CAROLINA D.O.T. SIGN DETAIL

12-NOV-2008 15:51:11 \\11115050\p\traffic\signing\cadd\Quantities & CM Signs\R-3833B\Quantities.dgn

APPROVED: *[Signature]*
DATE: 11/13/08



SIGN NUMBER: 7
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

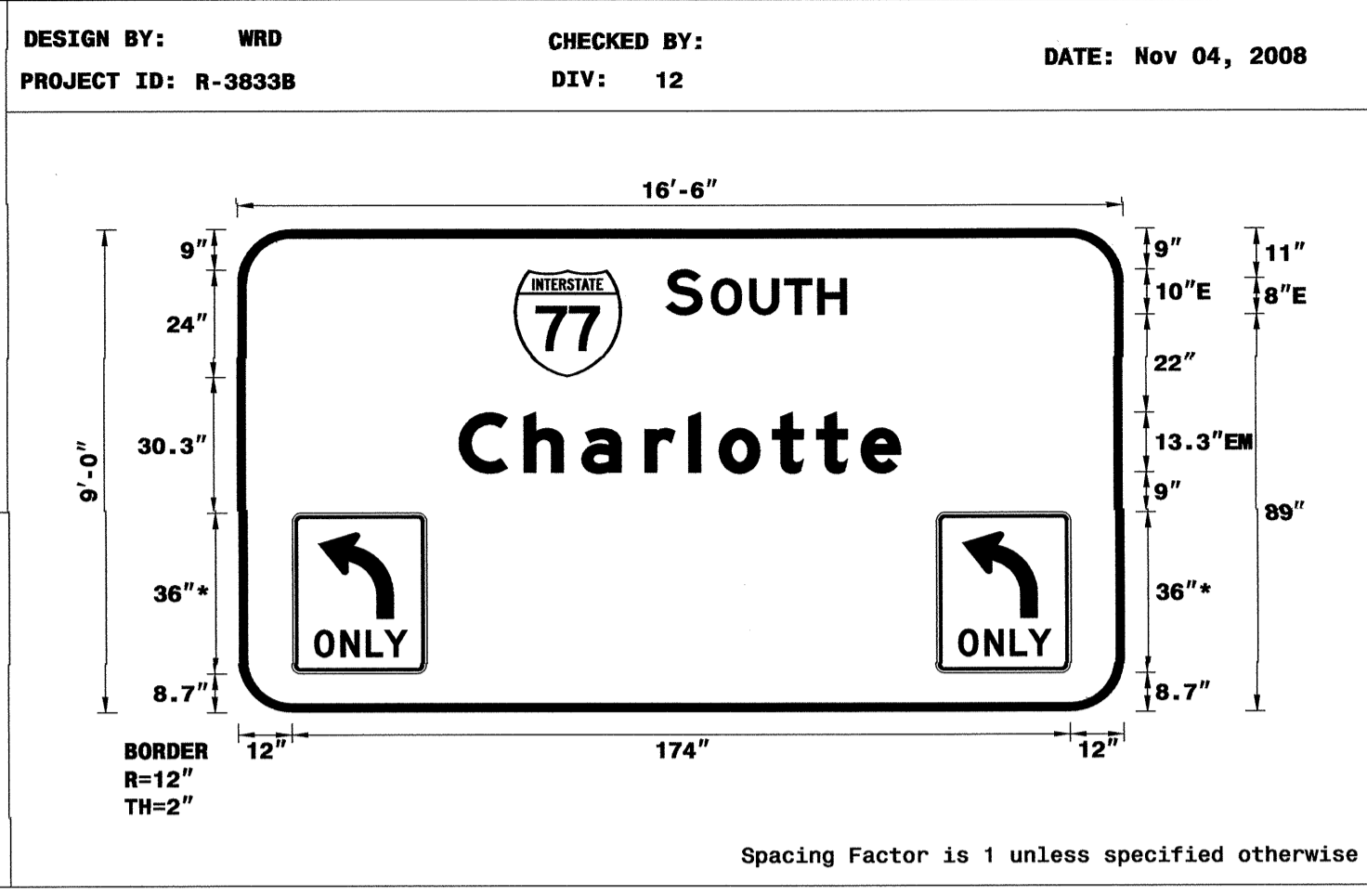
SYMBOL	X	Y	WID	HT
M1_1	61.8	75	24	24
R3_5L	12	8.6	30	36
R3_5L	156	8.6	30	36

SIGN WIDTH: 16'-6"
HEIGHT: 9'-0"
TOTAL AREA: 148.5 Sq.Ft.

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

NO. Z BARS: 3
LENGTH: 190.0

MAT'L: 0.125" (3.2 mm) ALUMINUM



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.

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	40.4
EM 2000	98.8

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 8
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

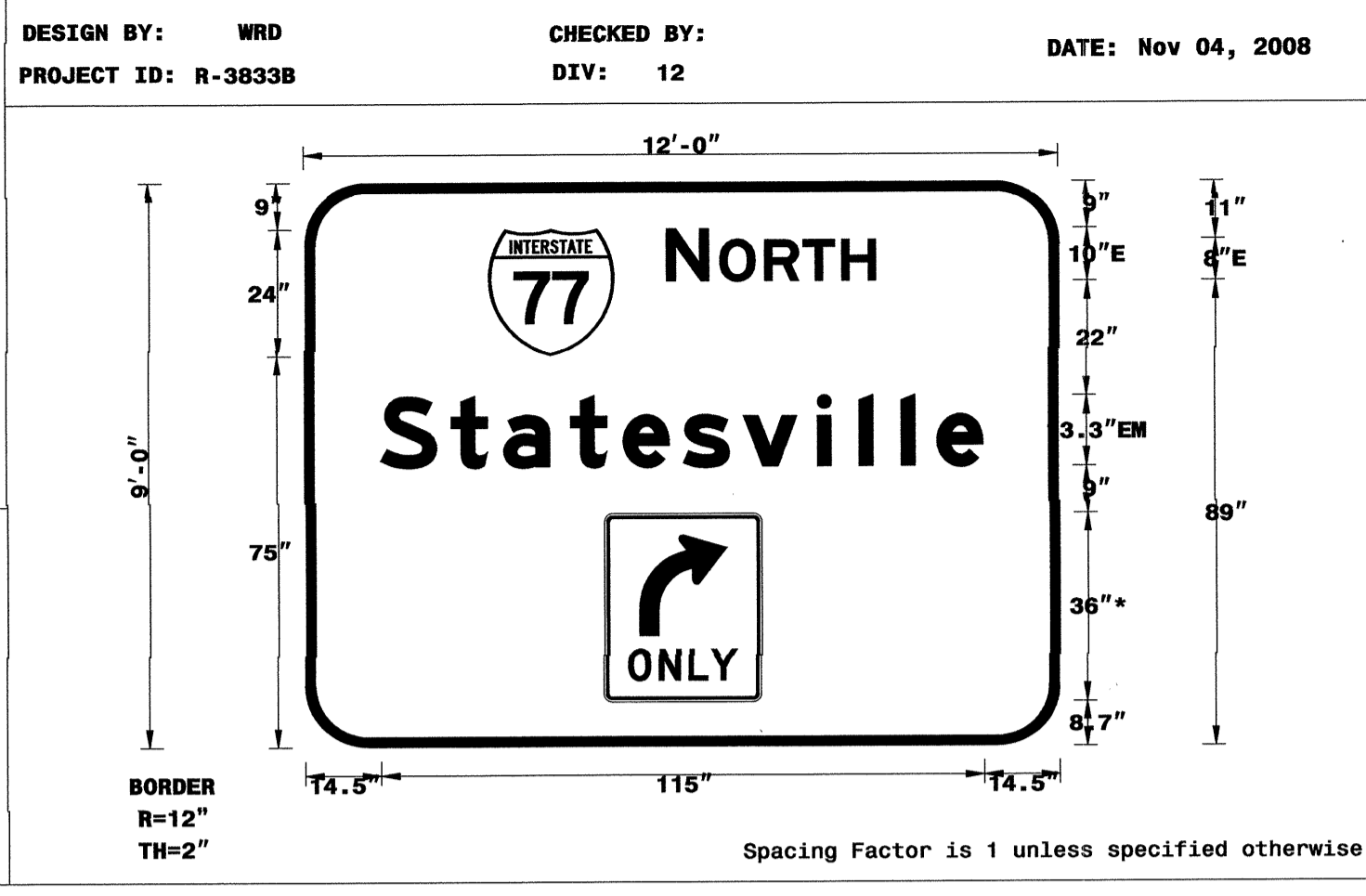
SYMBOL	X	Y	WID	HT
M1_1	35	75	24	24
R3_5R	57	8.7	30	36

SIGN WIDTH: 12'-0"
HEIGHT: 9'-0"
TOTAL AREA: 108.0 Sq.Ft.

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

NO. Z BARS: 3
LENGTH: 136.0

MAT'L: 0.125" (3.2 mm) ALUMINUM



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.

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	40
EM 2000	115

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 9
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

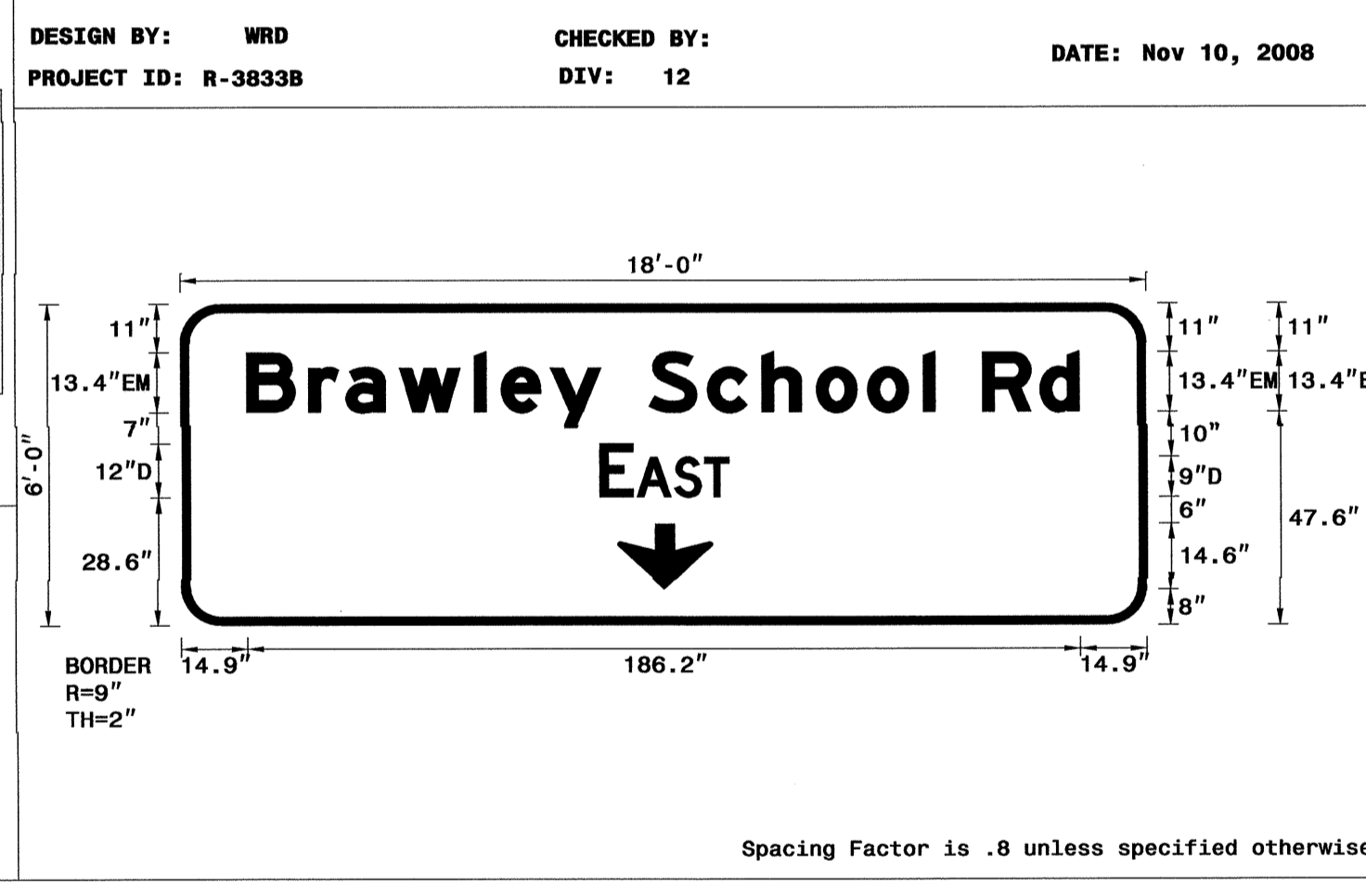
SYMBOL	X	Y	WID	HT
ARDOWN	97.4	8	21.3	14.6

SIGN WIDTH: 18'-0"
HEIGHT: 6'-0"
TOTAL AREA: 108.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADIUS: 9"

NO. Z BARS: 2
LENGTH: 208.0

MAT'L: 0.125" (3.2 mm) ALUMINUM



USE NOTES: 1, 2

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

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	186.2
D 2000	29

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 10
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

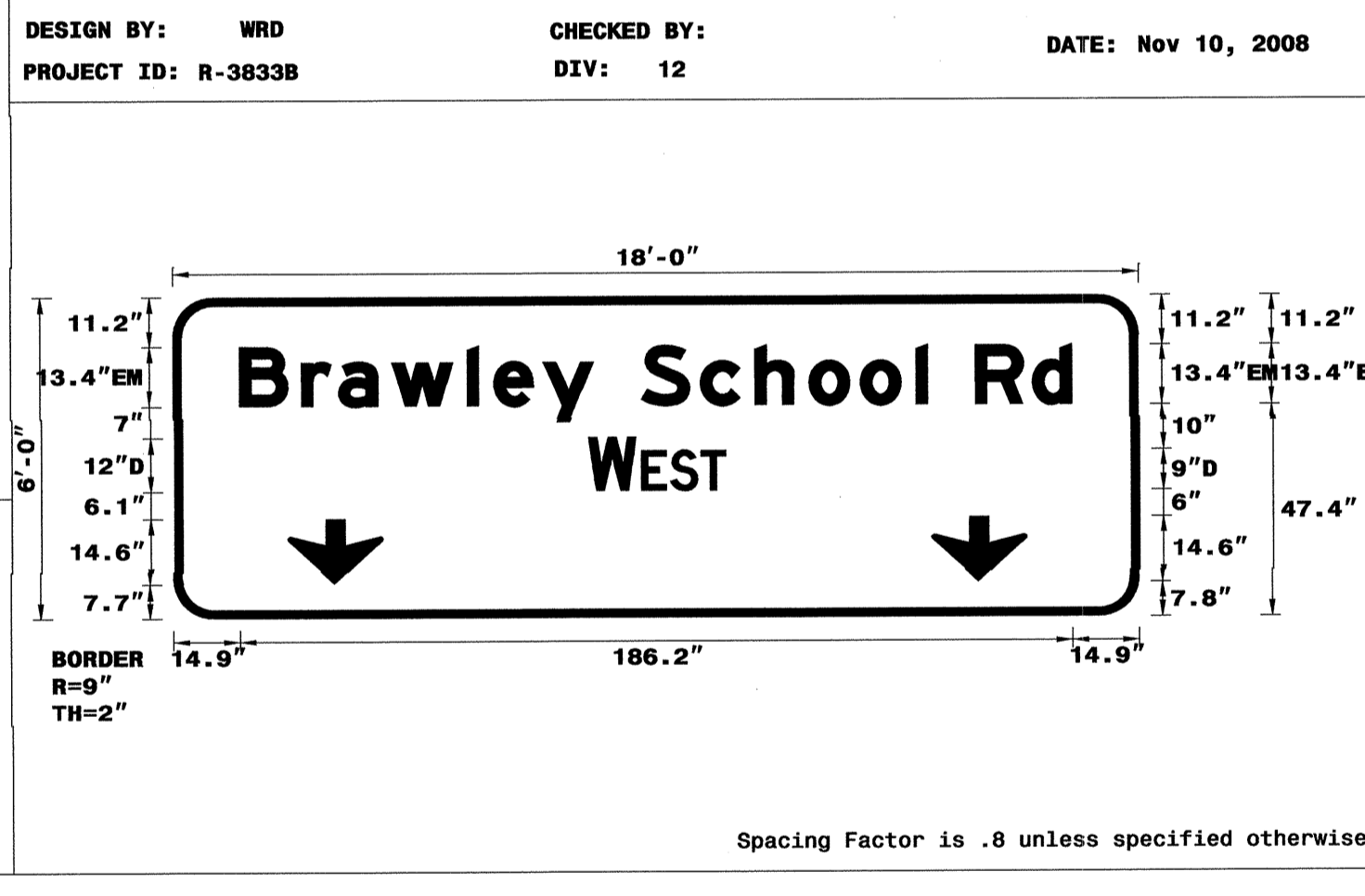
SYMBOL	X	Y	WID	HT
ARDOWN	25.3	7.7	21.3	14.6
ARDOWN	169.4	7.8	21.3	14.6

SIGN WIDTH: 18'-0"
HEIGHT: 6'-0"
TOTAL AREA: 108.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADIUS: 9"

NO. Z BARS: 2
LENGTH: 208.0

MAT'L: 0.125" (3.2 mm) ALUMINUM



USE NOTES:

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

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	186.2
D 2000	30.8

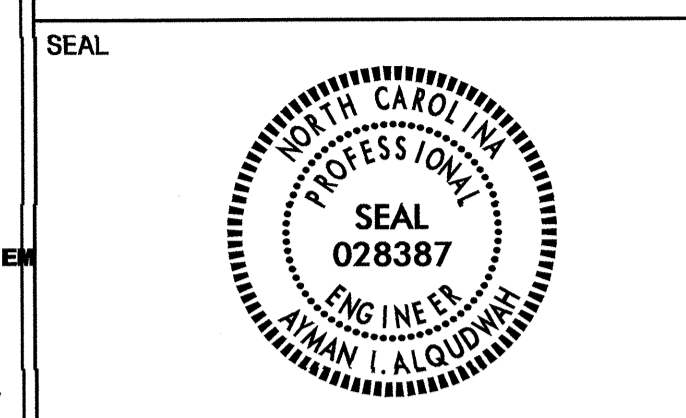
NORTH CAROLINA D.O.T. SIGN DETAIL

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SIGN DESIGNS

3WAY 11/12/08 R.Hanna

APPROVED: *[Signature]*
DATE: 11/13/08



SIGN NUMBER: 11 TYPE: A BACKG COLOR: Green COPY COLOR: White
 QUANTITY: 1
 SIGN WIDTH: 18'-0" HEIGHT: 6'-0" TOTAL AREA: 108.0 Sq.Ft.
 DESIGN BY: WRD CHECKED BY: DIV: 12 DATE: Nov 10, 2008
 PROJECT ID: R-3833B

SYMBOL	X	Y	WID	HT
ARROWN	97.4	8	21.3	14.6

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

Spacing Factor is .8 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size				
B	r	a	w	l	e	y	S	c	h	o	o	l	R	d	EM 2000				
14.9	13.9	8.3	12	16.8	6	11	11.4	10.6	13.2	12.2	12.2	11.5	12.4	2.7	10.6	12.8	8.8	14.9	186.2
E S T															D 2000				
92.8	10.7	0.8	6.5	6.8	5.6	92.8													30.4

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 12 TYPE: A BACKG COLOR: Green COPY COLOR: White
 QUANTITY: 1
 SIGN WIDTH: 18'-0" HEIGHT: 6'-0" TOTAL AREA: 108.0 Sq.Ft.
 DESIGN BY: WRD CHECKED BY: DIV: 12 DATE: Nov 10, 2008
 PROJECT ID: R-3833B

SYMBOL	X	Y	WID	HT
ARROWN	25.3	8	21.3	14.6
ARROWN	169.4	8	21.3	14.6

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

Spacing Factor is .8 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size				
B	r	a	w	l	e	y	S	c	h	o	o	l	R	d	EM 2000				
14.9	13.9	8.3	12	16.8	6	11	11.4	10.6	13.2	12.2	12.2	11.5	12.4	2.7	10.6	12.8	8.8	14.9	186.2
E A S T															D 2000				
93.3	7.4	1.2	8.4	6.8	5.6	93.3													29.4

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 13, 14 TYPE: A BACKG COLOR: Green COPY COLOR: White
 QUANTITY: 2
 SIGN WIDTH: 17'-6" HEIGHT: 6'-6" TOTAL AREA: 113.8 Sq.Ft.
 DESIGN BY: WRD CHECKED BY: DIV: 12 DATE: Nov 10, 2008
 PROJECT ID: R-3833B

SYMBOL	X	Y	WID	HT
R3_5a	18	9.8	30	36
R3_5a	162	9.8	30	36

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

Spacing Factor is .7 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size				
B	r	a	w	l	e	y	S	c	h	o	o	l	R	d	EM 2000				
15.1	13.5	8.1	11.6	16.4	5.6	10.7	11.4	9.4	12.9	11.8	11.8	11.2	12	2.7	9.4	12.5	8.8	15.1	179.7

NORTH CAROLINA D.O.T. SIGN DETAIL

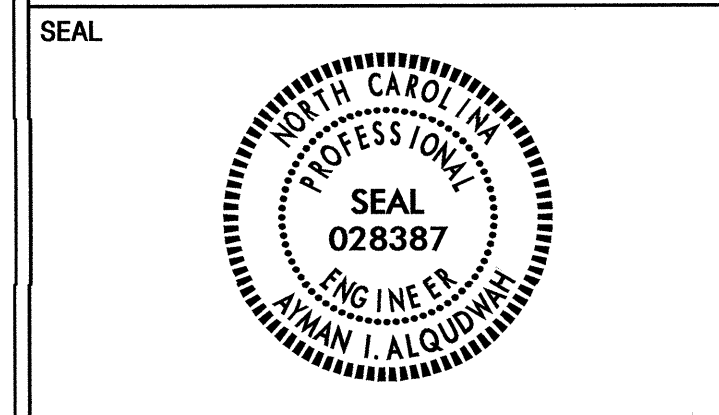
SIGN DESIGNS

3way 11/12/08 R. Klein

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 12-NOV-2008 15:53
 3833B\Traffic\signing\cadd\Quantities.dgn
 12-NOV-2008 15:53
 3833B\Traffic\signing\cadd\Quantities.dgn

APPROVED: *[Signature]*

DATE: 11/13/08



SIGN NUMBER: 102A, 104A, 105A, TYPE: B, QUANTITY: 4, SIGN WIDTH: 8'-0", HEIGHT: 2'-6", TOTAL AREA: 20.0 Sq.Ft., BORDER TYPE: FLUSH, RECESS: 0", WIDTH: 1.5", RADII: 4", NO. Z BARS: 1, LENGTH: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WRD, PROJECT ID: R-3833B, CHECKED BY: DIV: 12, DATE: Oct 02, 2008

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	66.2

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 102B, TYPE: A, QUANTITY: 1, SIGN WIDTH: 22'-6", HEIGHT: 5'-6", TOTAL AREA: 123.8 Sq.Ft., BORDER TYPE: FLUSH, RECESS: 0", WIDTH: 2", RADII: 9", NO. Z BARS: 2, LENGTH: 262.0, 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WRD, PROJECT ID: R-3833B, CHECKED BY: DIV: 12, DATE: Nov 04, 2008

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	238.9
E 2000	52.6

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 103, TYPE: A, QUANTITY: 1, SIGN WIDTH: 13'-6", HEIGHT: 8'-0", TOTAL AREA: 108.0 Sq.Ft., BORDER TYPE: FLUSH, RECESS: 0", WIDTH: 2", RADII: 12", NO. Z BARS: 3, LENGTH: 154.0, 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WRD, PROJECT ID: R-3833B, CHECKED BY: DIV: 12, DATE: Oct 15, 2008

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	135.5
EM 2000	110
EM 2000	100.4
E 2000	67.5

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 104B, TYPE: A, QUANTITY: 1, SIGN WIDTH: 22'-6", HEIGHT: 5'-6", TOTAL AREA: 123.8 Sq.Ft., BORDER TYPE: FLUSH, RECESS: 0", WIDTH: 2", RADII: 9", NO. Z BARS: 2, LENGTH: 262.0, 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WRD, PROJECT ID: R-3833B, CHECKED BY: DIV: 12, DATE: Nov 12, 2008

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	238.9
E 2000	99.1

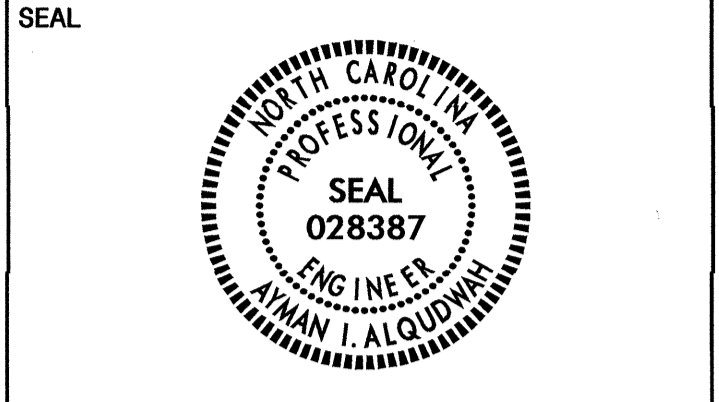
NORTH CAROLINA D.O.T. SIGN DETAIL

13-NOV-2008 14:15
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 wdbk:dk

SIGN DESIGNS

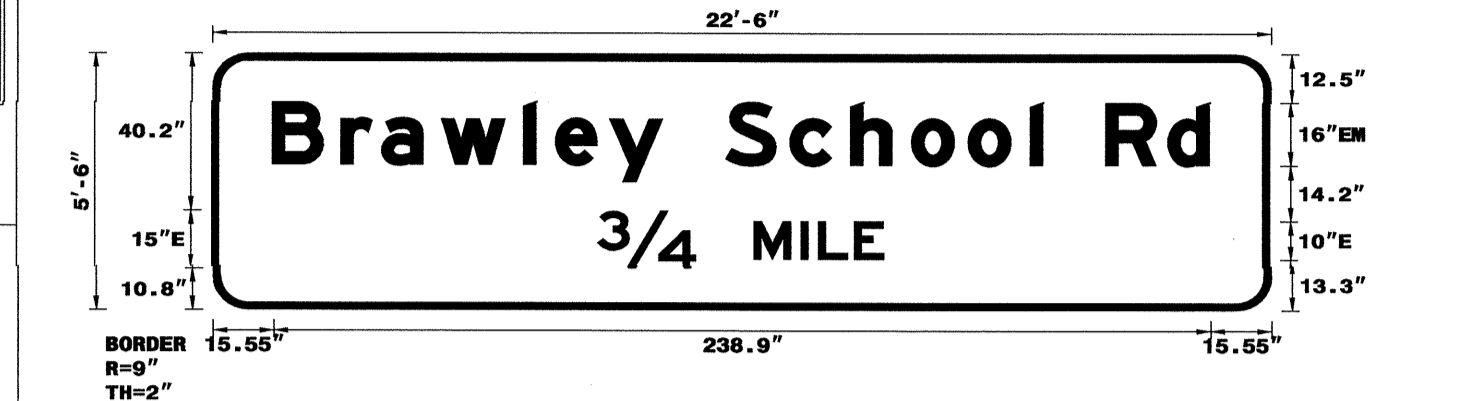
3WAY 11/12/08 RHEMEL

APPROVED: *[Signature]*
 DATE: 11/13/08



SIGN NUMBER: 105B
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 22'-6"
 HEIGHT: 5'-6"
 TOTAL AREA: 123.8 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 9"
 NO. Z BARS: 2
 LENGTH: 262.0
 MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WRD
 CHECKED BY:
 PROJECT ID: R-3833B
 DIV: 12
 DATE: Nov 12, 2008



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

Spacing Factor is 1 unless specified otherwise

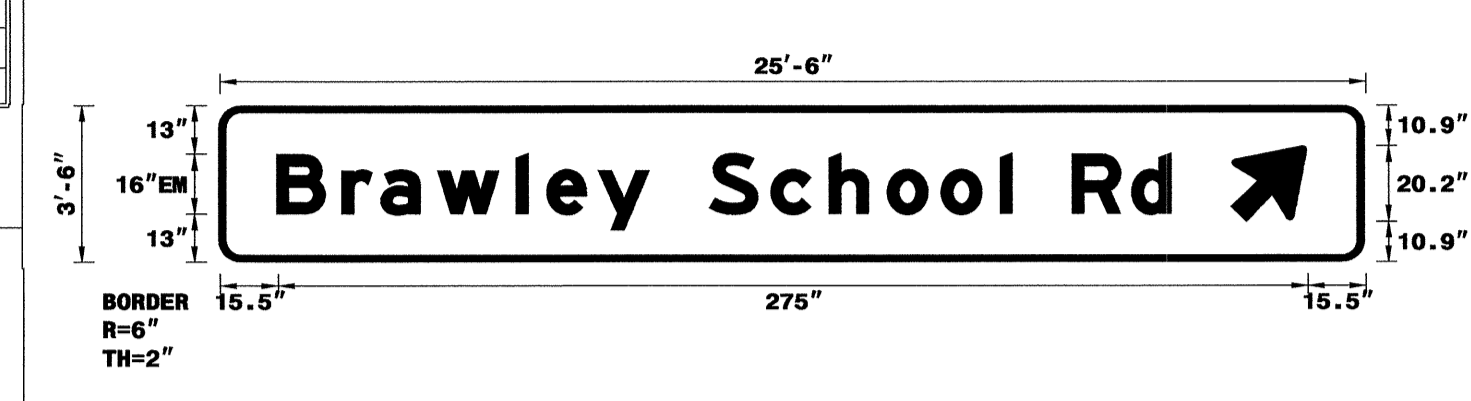
LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size					
															Text Length					
B	r	a	w	l	e	y	S	c	h	o	o	l	R	d	EM 2000					
15.6	17.4	10.4	15.2	21	8.2	13.8	13.6	16	16.5	15.5	15.5	14.4	15.8	3.2	16	15.8	10.6	15.6	238.9	
3/4	M	I	L	E	E	2000													73.1	
98.5	25	15	12	4.4	9.2	7.5	98.5													

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 106B
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 25'-6"
 HEIGHT: 3'-6"
 TOTAL AREA: 89.3 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 298.0
 MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WRD
 CHECKED BY:
 PROJECT ID: R-3833B
 DIV: 12
 DATE: Nov 04, 2008



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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size				
															Text Length				
B	r	a	w	l	e	y	S	c	h	o	o	l	R	d	EM 2000				
15.5	17.4	10.4	15.2	21	8.2	13.8	13.6	16	16.5	15.5	15.5	14.4	15.8	3.2	16	15.8	10.6	51.6	238.9

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 107
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 14'-6"
 HEIGHT: 5'-6"
 TOTAL AREA: 79.8 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 9"
 NO. Z BARS: 2
 LENGTH: 166.0
 MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WRD
 CHECKED BY:
 PROJECT ID: R-3833B
 DIV: 12
 DATE: Oct 27, 2008



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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size		
															Text Length		
M	o	o	r	e	s	v	i	l	l	e					EM 2000		
16	18.9	14.4	15.8	10.4	13.8	13.8	17	9.6	9.6	8.2	10.6	16					141.9
N	E	X	T												E 2000		
30.1	10.7	8.9	9.8	7.5	107												36.9
E	X	I	T	S											E 2000		
104.1	8.9	10.7	3.5	8.6	8.1	30.1											39.8
2															E 2000		
79.5	12.2	82.4													12.2		

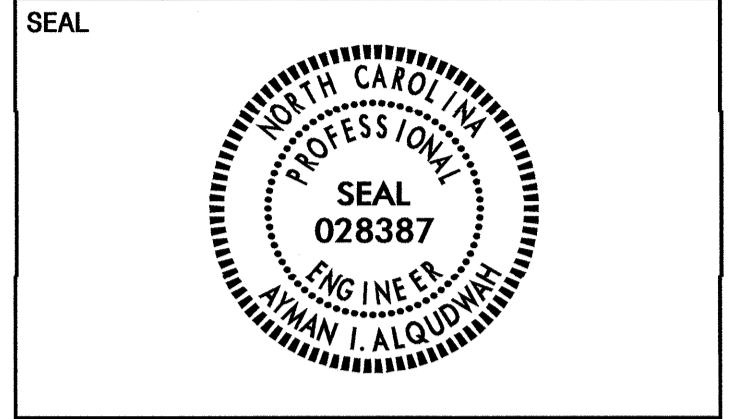
NORTH CAROLINA D.O.T. SIGN DETAIL

I:\NOV-2008\1416\Projects\Traffic\Signing\CADD\Quantities & GM_Signs\R-3833B\Quantities.dgn
 P:\Projects\Traffic\Signing\CADD\Quantities & GM_Signs\R-3833B\Quantities.dgn
 wdbkduk

SIGN DESIGNS

3007 V 11/12/08 R.Hennein

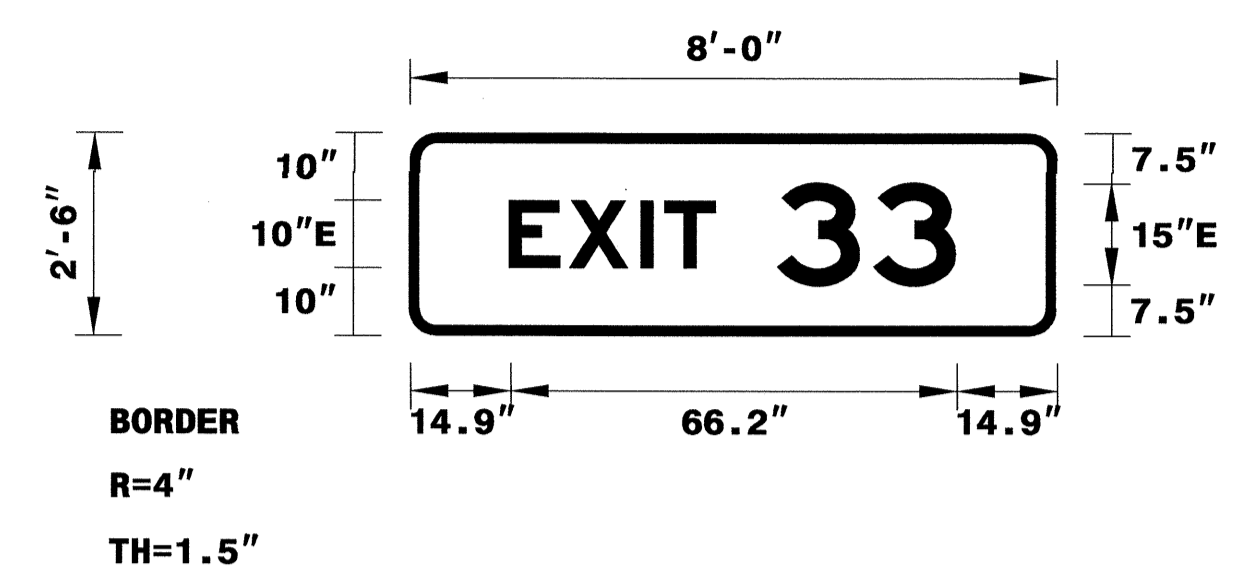
APPROVED: *[Signature]*
DATE: 11/13/08



SIGN NUMBER: 101A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 8'-0"
HEIGHT: 2'-6"
TOTAL AREA: 20.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1.5"
RADIUS: 4"
NO. Z BARS: 1
LENGTH: 0.125" (3.2 mm) ALUMINUM

SYMBOL	X	Y	WID	HT

DESIGN BY: WRD CHECKED BY: DATE: Oct 02, 2008
PROJECT ID: R-3833B DIV: 12

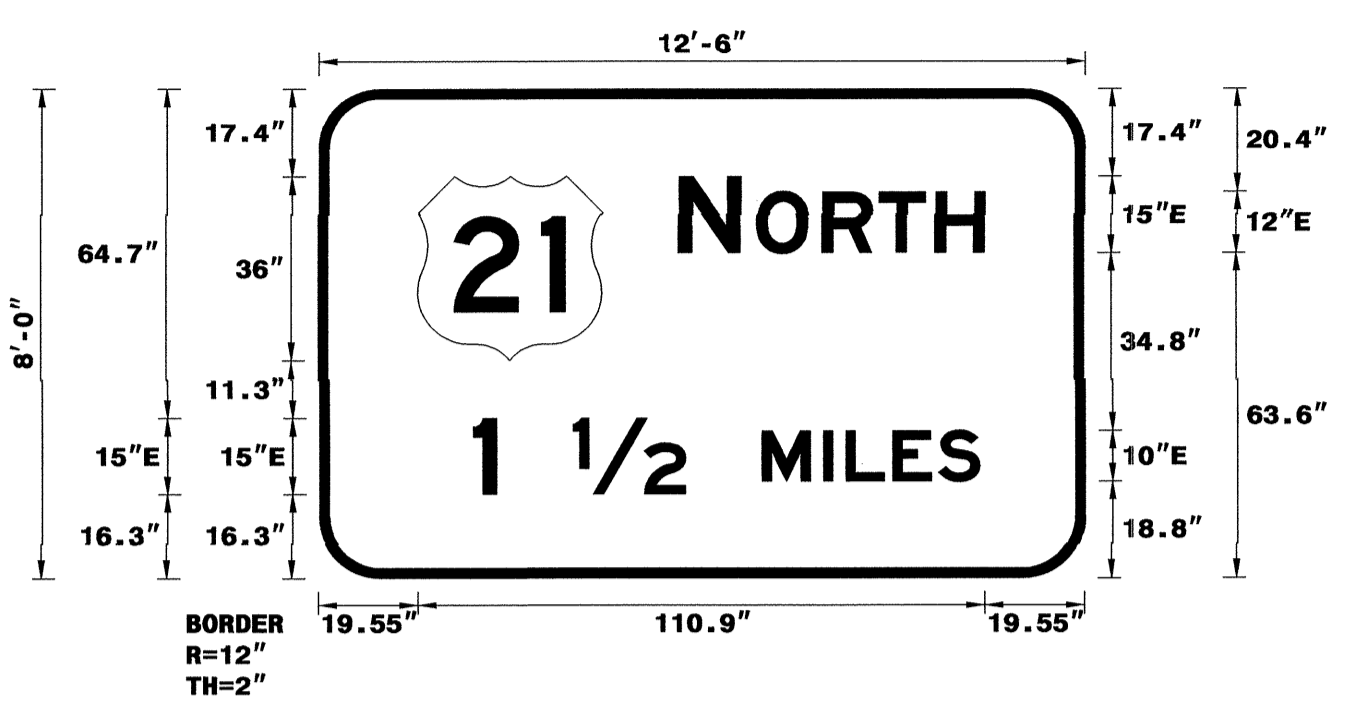


USE NOTES: 1, 2
1. Legend and border shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

SIGN NUMBER: 101B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 12'-6"
HEIGHT: 8'-0"
TOTAL AREA: 100.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADIUS: 12"
NO. Z BARS: 3
LENGTH: 0.125" (3.2 mm) ALUMINUM

SYMBOL	X	Y	WID	HT
M1_4	19.5	42.6	36	36

DESIGN BY: wrd CHECKED BY: DATE: Nov 13, 2008
PROJECT ID: R-3833B DIV: 12



USE NOTES: 1,2,3,4
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.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	66.2

NORTH CAROLINA D.O.T. SIGN DETAIL

LETTER POSITIONS

Letter spacings are to start of next letter

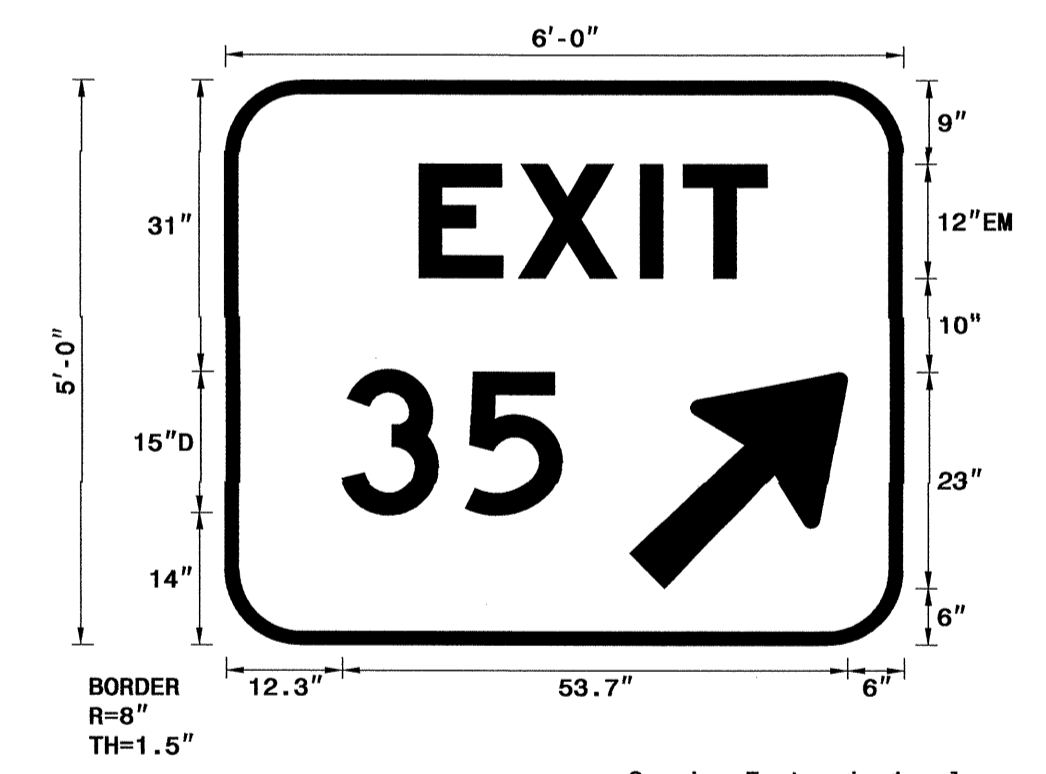
Series/Size	Text Length
E 2000	59.9
E 2000	99.1

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 201, 202
TYPE: A
QUANTITY: 2
SIGN WIDTH: 6'-0"
HEIGHT: 5'-0"
TOTAL AREA: 30.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1.5"
RADIUS: 8"
NO. Z BARS: 2
LENGTH: 64.0

SYMBOL	X	Y	WID	HT
ARMED	43	6.1	18.8	29.5

DESIGN BY: WRD CHECKED BY: DATE: Oct 03, 2008
PROJECT ID: R-3833B DIV: 12

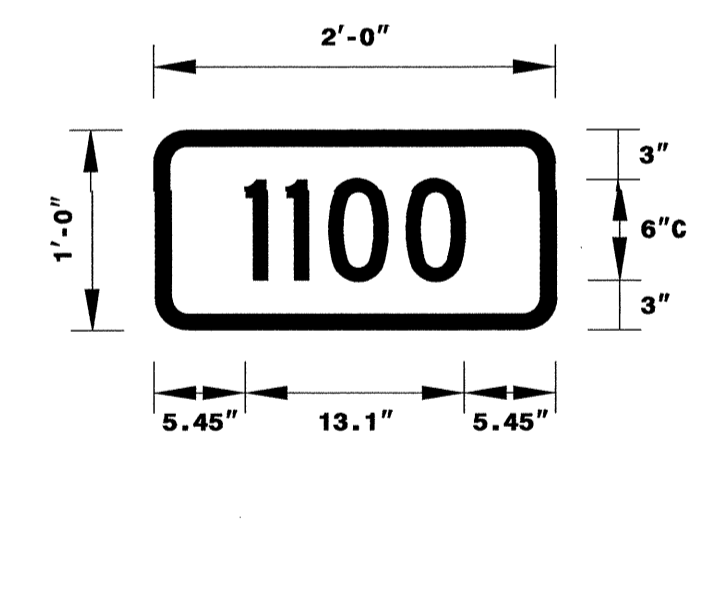


USE NOTES: 1, 2
1. Legend and border shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

SIGN NUMBER: 301, 302
TYPE: D
QUANTITY: 2
SIGN WIDTH: 2'-0"
HEIGHT: 1'-0"
TOTAL AREA: 2.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1"
RADIUS: 2"
NO. Z BARS: 1
LENGTH: 0.125" (3.2 mm) ALUMINUM

SYMBOL	X	Y	WID	HT

DESIGN BY: WRD CHECKED BY: DATE: Oct 23, 2008
PROJECT ID: R-3833B DIV: 12



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

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	37
D 2000	23.4

NORTH CAROLINA D.O.T. SIGN DETAIL

LETTER POSITIONS

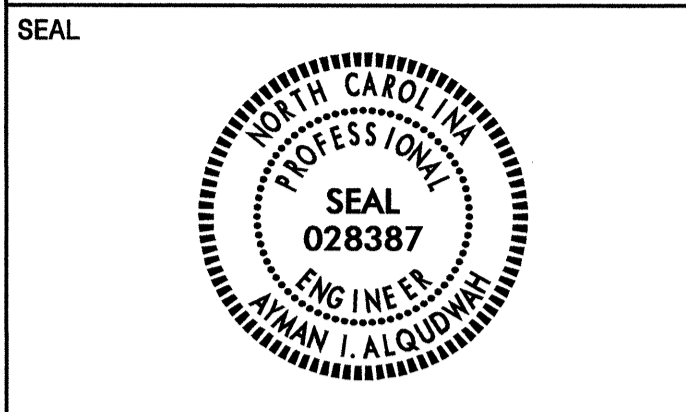
Letter spacings are to start of next letter

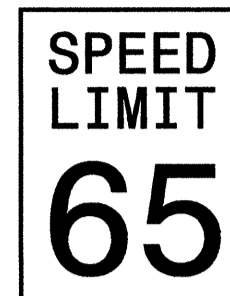

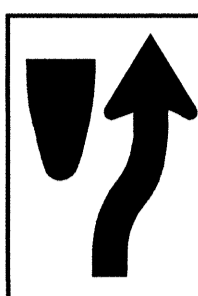
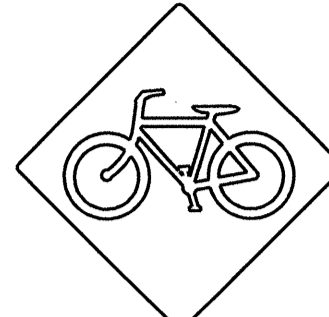

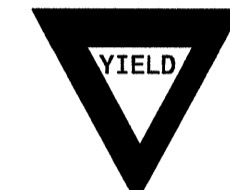
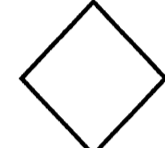



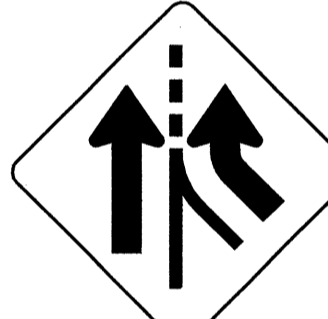
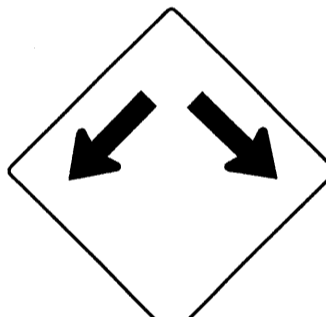
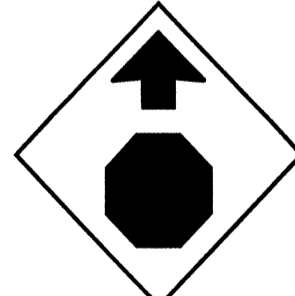

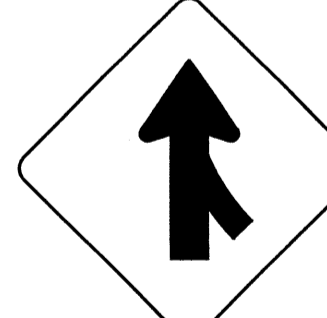

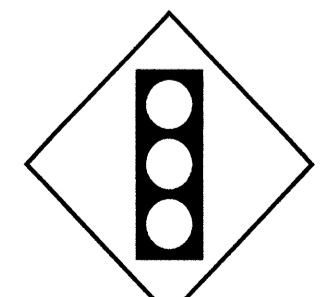

Series/Size	Text Length
C 2000	13.1

NORTH CAROLINA D.O.T. SIGN DETAIL

I:\3-NOV-2008 14:19...R-3833B-Traffic\Signing\CADD\Quantities & CM Signs\AR-3833BQuantities.dgn

APPROVED: *[Signature]*
 DATE: 8/29/09

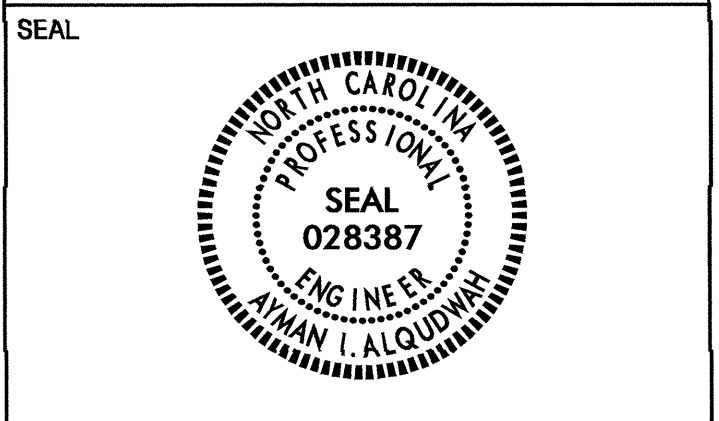


<p>402 QUANTITY REQ'D 3</p>  <p>48 X 60 R2-1</p> <p>TWO "U" POSTS PER SIGN</p>	<p>411 QUANTITY REQ'D 6</p>  <p>30 X 30 R5-1</p> <p>ONE "U" POST PER SIGN</p>	<p>416 QUANTITY REQ'D 4</p>  <p>24 X 30 R4-7</p> <p>ONE "U" POST PER SIGN</p>	<p>421 QUANTITY REQ'D 7</p>  <p>30 X 30 W11-1</p> <p>ONE "U" POST PER SIGN</p>		
<p>403 QUANTITY REQ'D 6</p>  <p>36 X 48 R2-1</p> <p>TWO "U" POSTS PER SIGN</p>	<p>412 QUANTITY REQ'D 2</p>  <p>36 X 36 X 36 R1-2</p> <p>ONE "U" POST PER SIGN</p>	<p>417 QUANTITY REQ'D 4</p>  <p>18 X 18 W23-15</p> <p>MOUNT BELOW SIGN 416 IN 4 INSTALLATIONS</p>	<p>422 QUANTITY REQ'D 7</p>  <p>24 X 30 W16-1</p> <p>MOUNT BELOW SIGN 421 IN 7 INSTALLATIONS</p>		
<p>408 QUANTITY REQ'D 8</p>  <p>30 X 30 R1-1</p> <p>ONE "U" POST PER SIGN</p>	<p>413 QUANTITY REQ'D 3</p>  <p>54 X 18 R6-1 (R)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>418 QUANTITY REQ'D 1</p>  <p>48 X 48 W4-3(R)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>423 QUANTITY REQ'D 2</p>  <p>30 X 30 W12-1</p> <p>ONE "U" POST PER SIGN</p>		
<p>409 QUANTITY REQ'D 1</p>  <p>36 X 36 W3-1a</p> <p>ONE "U" POST PER SIGN</p>	<p>414 QUANTITY REQ'D 2</p>  <p>54 X 18 R6-1 (L)</p> <p>MOUNT BACK TO BACK WITH SIGN 413 IN 2 INSTALLATIONS</p>	<p>419 QUANTITY REQ'D 1</p>  <p>48 X 48 W4-1 (R)</p> <p>TWO "U" POSTS PER SIGN</p>			
<p>410 QUANTITY REQ'D 7</p>  <p>36 X 24 R5-1a</p> <p>ONE "U" POST PER SIGN</p>	<p>415 QUANTITY REQ'D 14</p>  <p>36 X 36 W3-3</p> <p>ONE "U" POST PER SIGN</p>	<p>420 QUANTITY REQ'D 2</p>  <p>30 X 30 R3-7(R)</p> <p>ONE "U" POST PER SIGN</p>			

28-AUG-2009 10:06
 p:\projects\3833b\traffic\signing\cadd\Quantities & DM Signs\R-3833BQuantities.dgn
 jgmar-tinez AT TEC221650

TYPE "E" SIGNS

APPROVED: *[Signature]*
 DATE: 11/13/08



<p>501</p> <p>502</p> <p>JCT INTERSTATE 77</p> <p>1- 21" x 15"</p> <p>1- 24" x 24"</p> <p>ONE "U" POST PER SIGN</p>			<p>QUANTITY REQ'D <u>2</u></p> <p>MILE 3 5</p> <p>12" x 36" D-10</p> <p>ONE "U" POST PER SIGN</p>		
---	--	--	---	--	--

<p>503</p> <p>505</p> <p>SOUTH INTERSTATE 77</p> <p>1- 30" x 15"</p> <p>1- 36" x 36"</p> <p>ONE "U" POST PER SIGN</p>					
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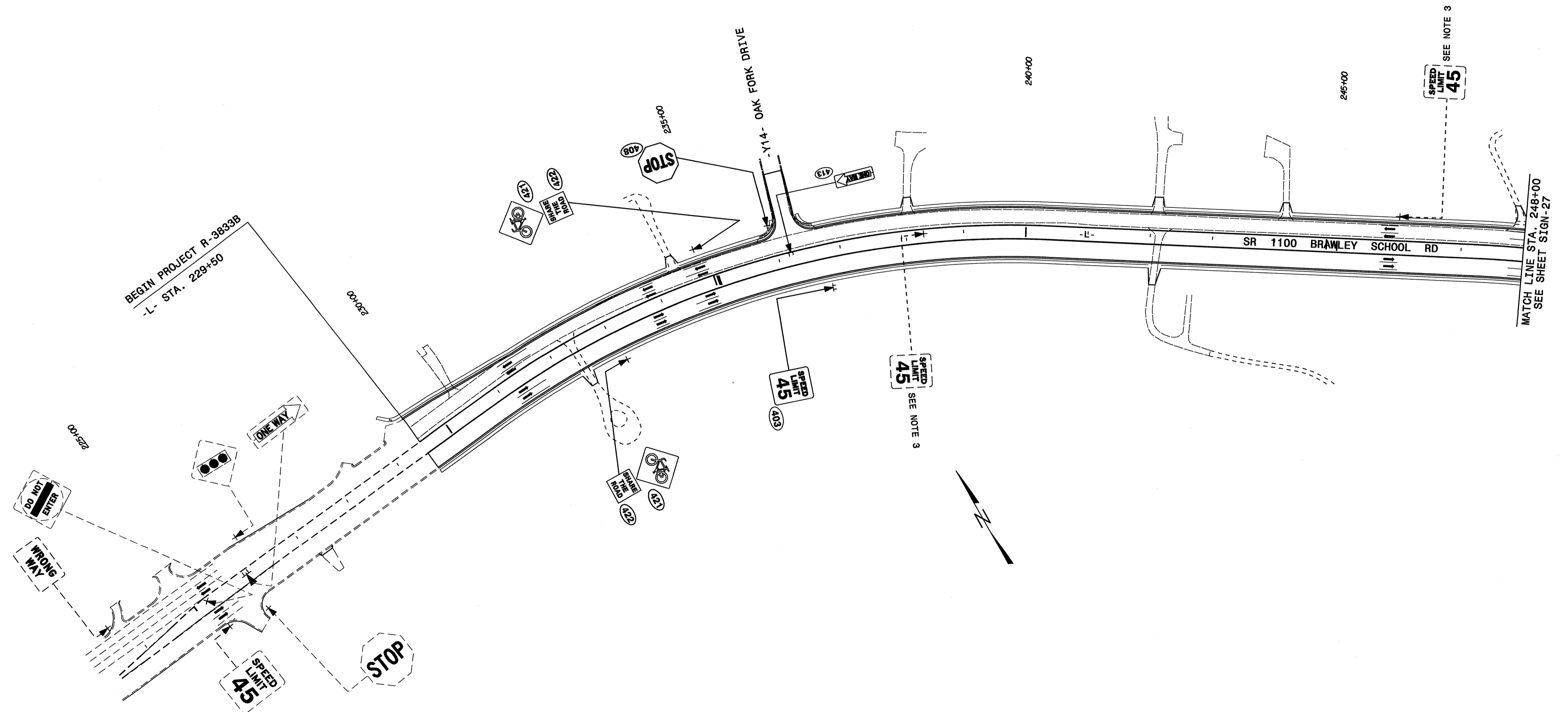
<p>504</p> <p>NORTH INTERSTATE 77</p> <p>1- 30" x 15"</p> <p>1- 36" x 36"</p> <p>ONE "U" POST PER SIGN</p>					
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					<p>TYPE "F" SIGNS AND MILEMARKERS</p>
--	--	--	--	--	--

I:\NOV-2008\15445
 P:\projects\3833b\traffic\signing\cadd\Quantities & GM Signs\R-3833BQuantities.dgn
 kda:dkk AT TECC221679


TIP NO. R-3833B	SHEET NO. SIGN-26
APPROVED: <i>[Signature]</i>	
DATE: 8/28/09	
SEAL	

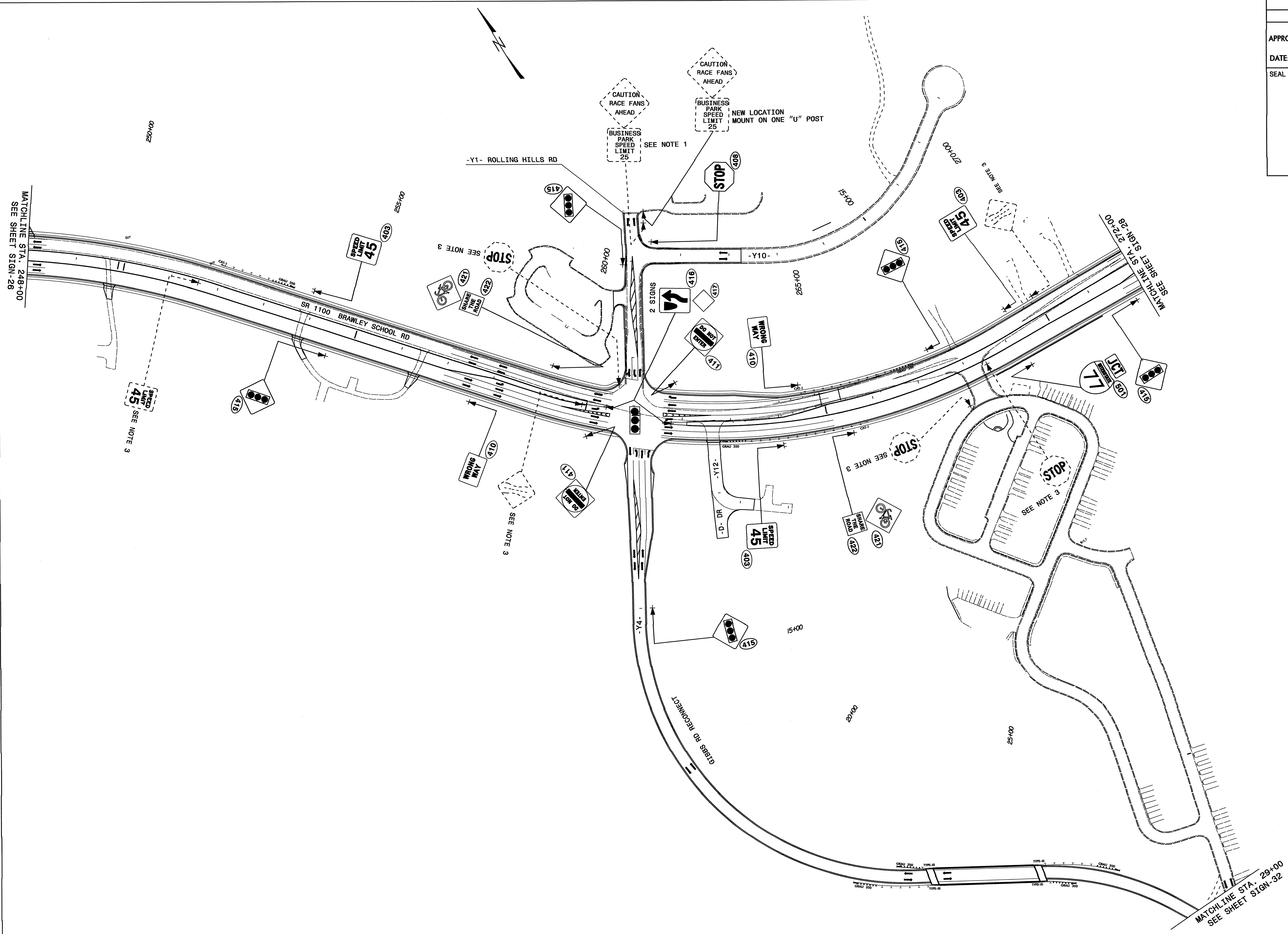


28-AUG-2009 10:05
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 ugmarinez AT TEC221B50

EXISTING AND PROPOSED SIGNS
 BEGIN OF PROJECT TO STA. 248+00
 SR 1100 (BRAWLEY SCHOOL RD)

TIP NO. R-3833B	SHEET NO. SIGN-27
APPROVED: <i>[Signature]</i>	
DATE: 11/13/08	
SEAL	

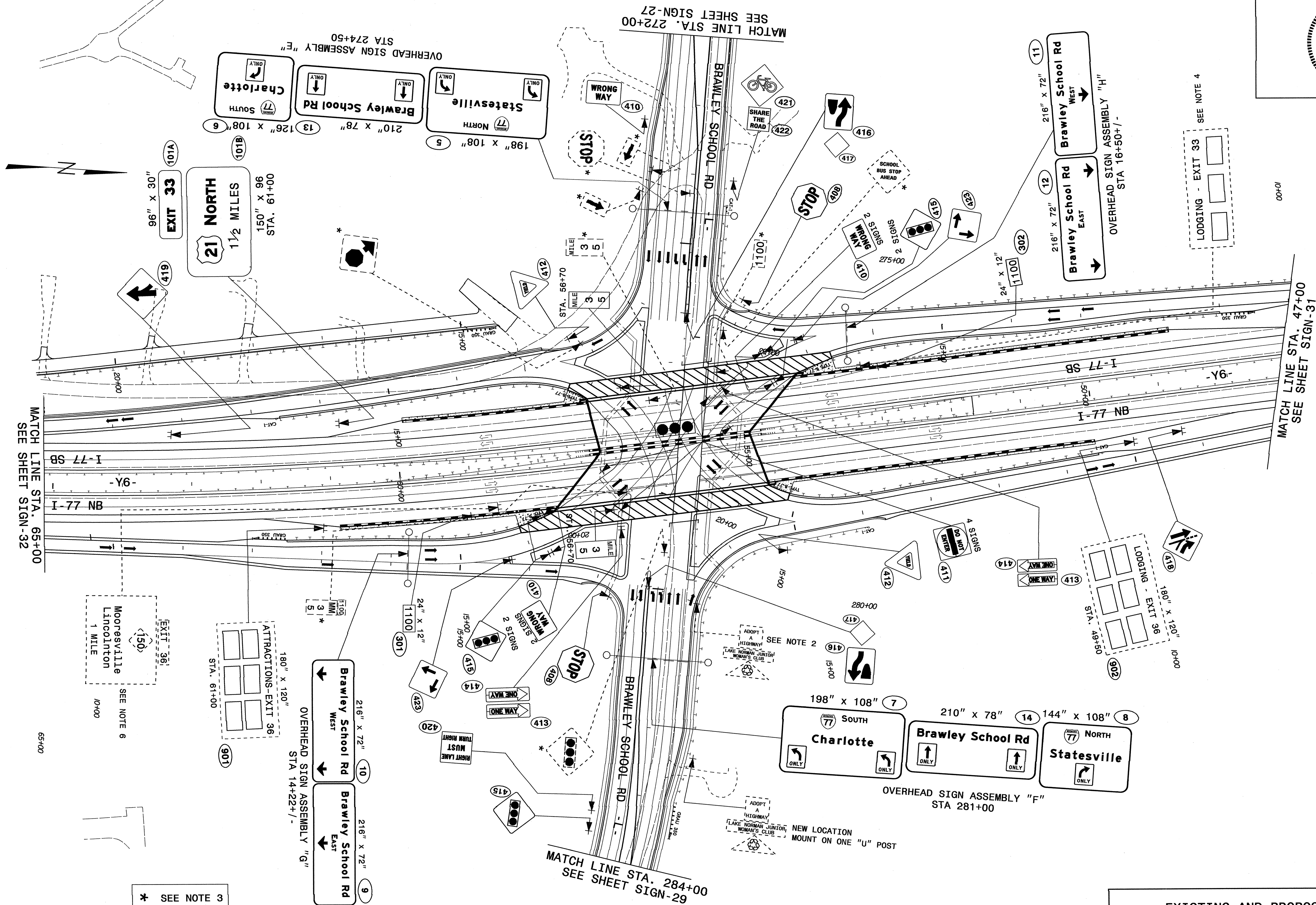




EXISTING AND PROPOSED SIGNS
 -L- STA. 248+00 TO STA. 272+00
 SR 1100 (BRAWLEY SCHOOL RD)

3 way 11/12/08 Wdtdk

I3-NOV-2008 07:02
 P:\TIP\Projects\13-3833B\Traffic\Signing\CADD\Signing Layout Plans\R-3833B_Sgn_Sign-27.dgn
 wdbkduk_01 TEC221879



MATCH LINE STA. 65+00
SEE SHEET SIGN-32

MATCH LINE STA. 272+00
SEE SHEET SIGN-27

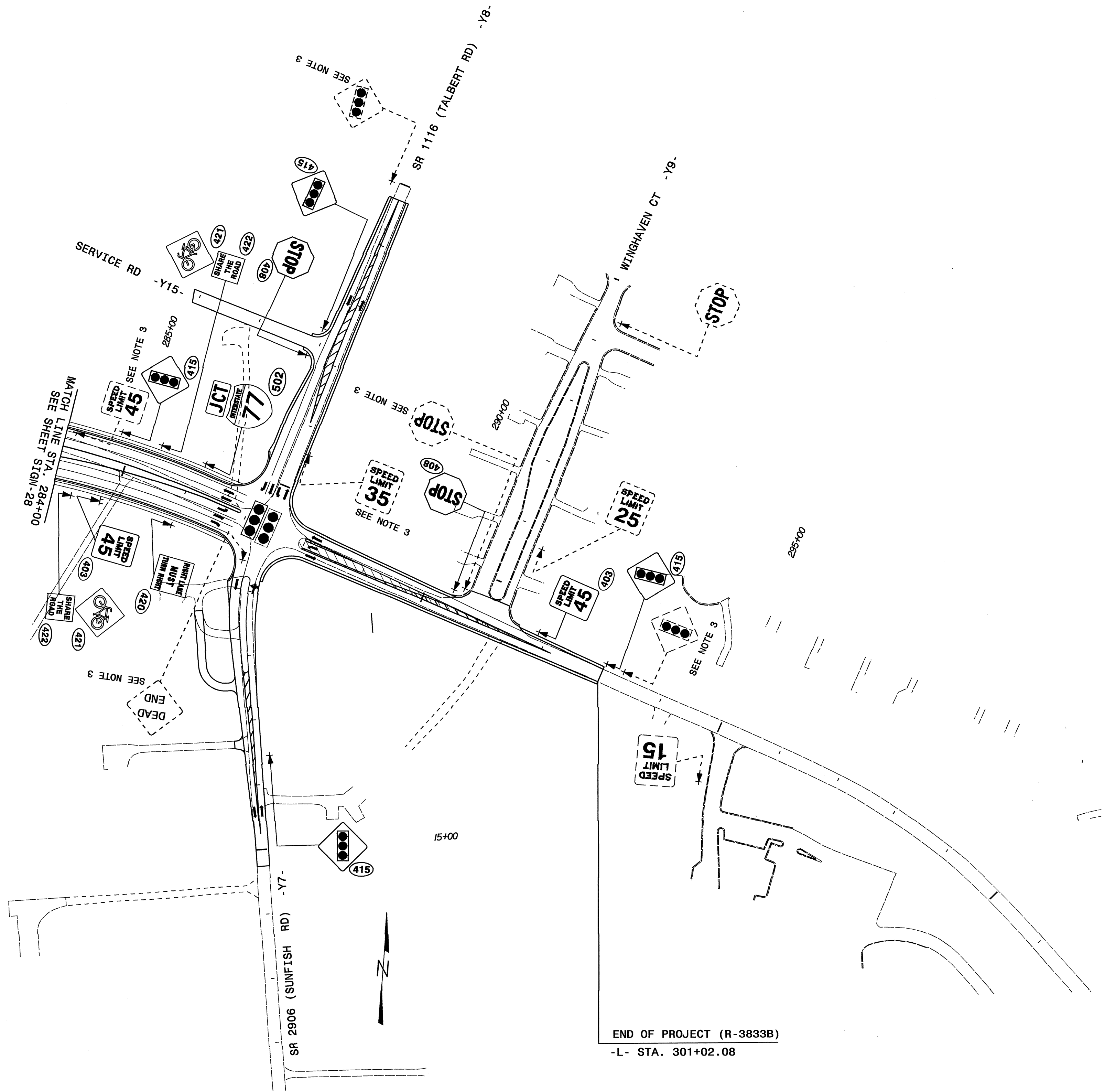
MATCH LINE STA. 47+00
SEE SHEET SIGN-31

MATCH LINE STA. 284+00
SEE SHEET SIGN-29

* SEE NOTE 3

EXISTING AND PROPOSED SIGNS
-L- STA. 272+00 TO STA. 284+00
SR 1100 (BRAWLEY SCHOOL RD)

TIP NO. R-3833B	SHEET NO. SIGN-29
APPROVED: <i>[Signature]</i>	
DATE: 11/13/08	
SEAL	

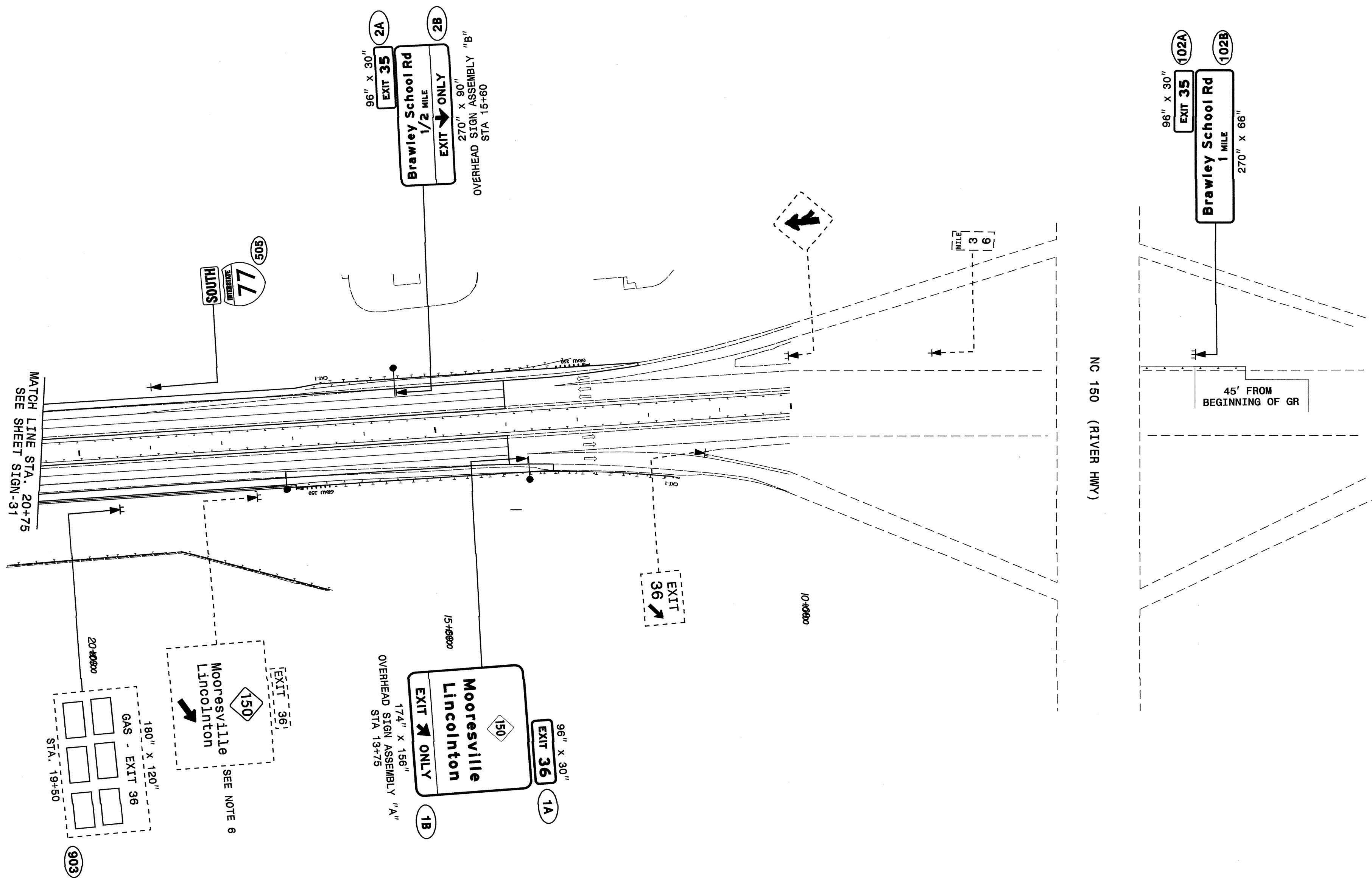


EXISTING AND PROPOSED SIGNS
 -L- STA. 284+00 TO END OF PROJECT
 SR 1100 (BRAWLEY SCHOOL RD)

3 way ✓ 11/12/08 wladent

B:\N\2008 05-43 83833B\Traffic\Signing\CADD\Signing Layout Plans\R-3833B_Sgn_Sign-29.dgn
 wladent 11/13/08

TIP NO. R-3833B	SHEET NO. SIGN-30
APPROVED: <i>[Signature]</i>	
DATE: 11/13/08	
SEAL	

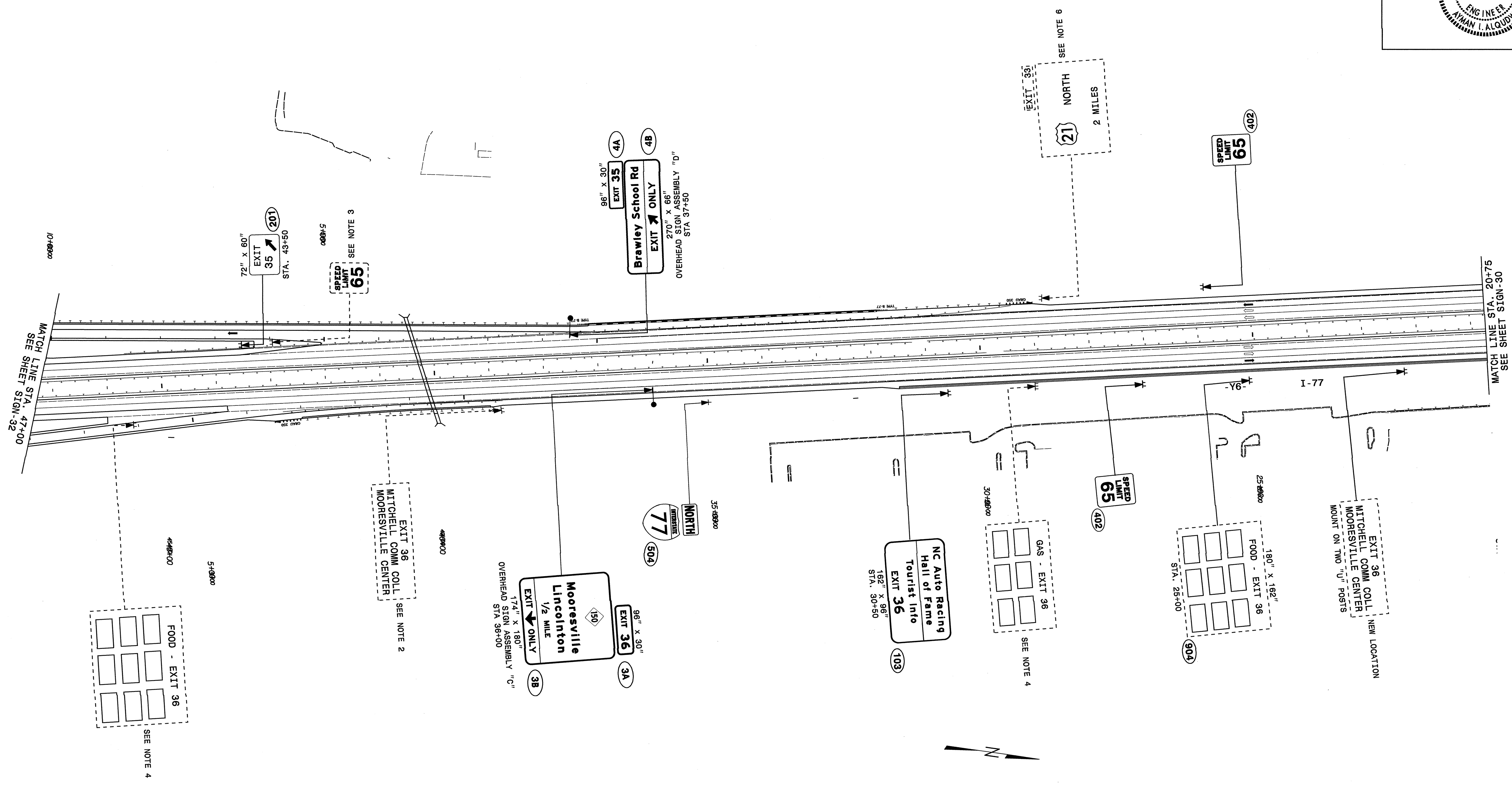
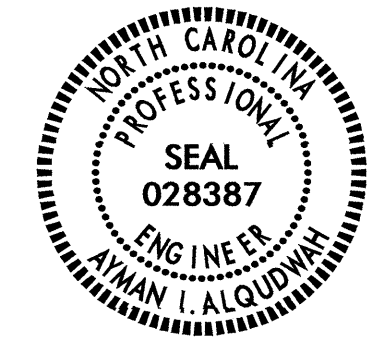


EXISTING AND PROPOSED SIGNS
 -Y6- STA. 20+75 TO STA. 12+00
 I-77

3 way ✓ 11/12/08 wda/bak

15 NOV 2008 07:03
 P:\Projects\3833B\Traffic\Signing\CADD\Signing Layout Plans\I-77\Sign-30.dgn
 wda/bak

TIP NO. R-3833B	SHEET NO. SIGN-31
APPROVED: <i>[Signature]</i>	
DATE: 11/13/08	
SEAL	



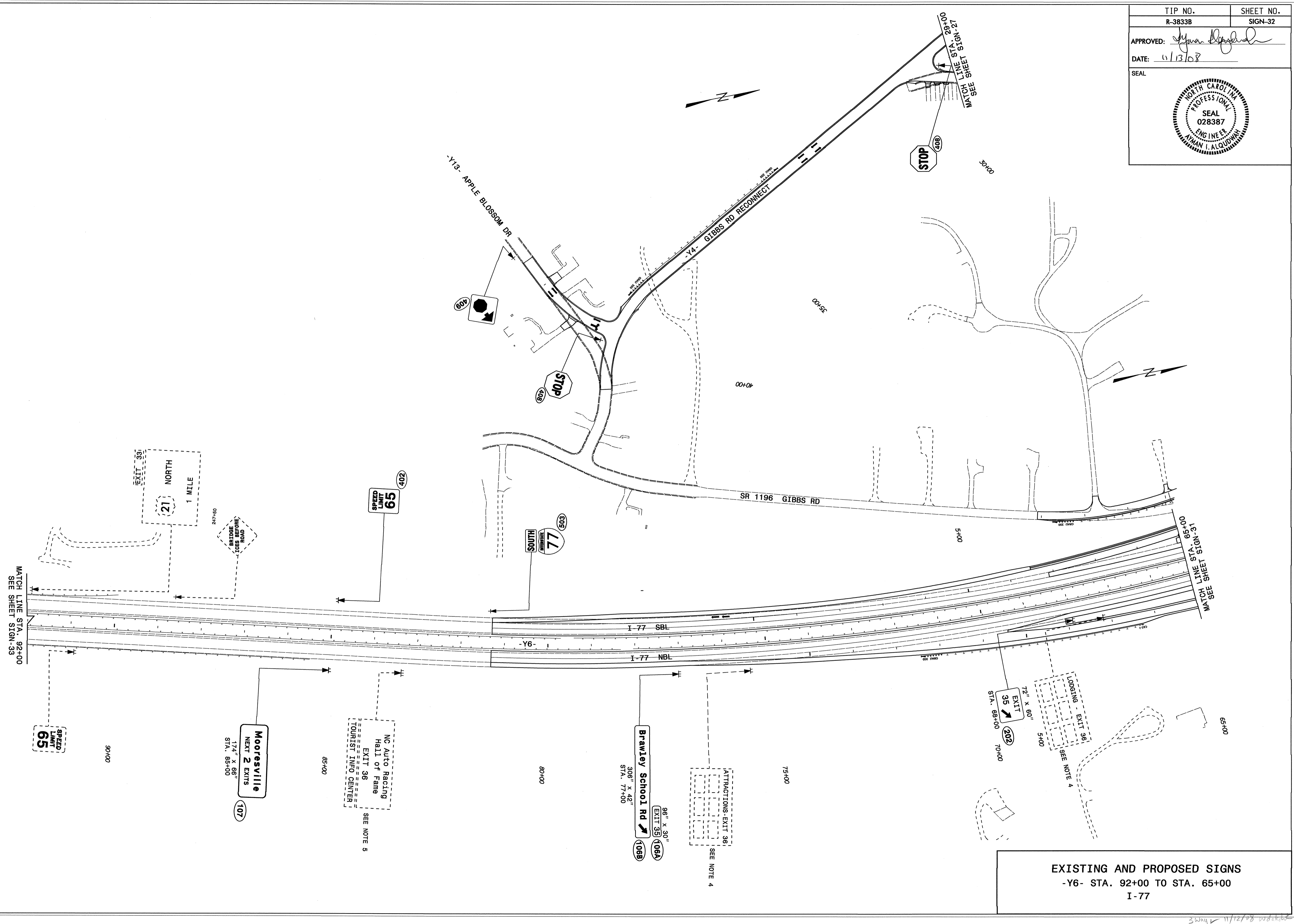
EXISTING AND PROPOSED SIGNS
 -Y6- STA. 47+00 TO STA. 20+75
 I-77

13 NOV 2008 07:10 P:\TIP-0803833B\Traffic\Signing\CADD\Signing Layout Plans\YR-3833B_Sgn_Sign-31.dgn
 wdkduk Atman L. Aloudani

3 Way 11/12/08 wdkduk

APPROVED: *[Signature]*
DATE: 11/13/08

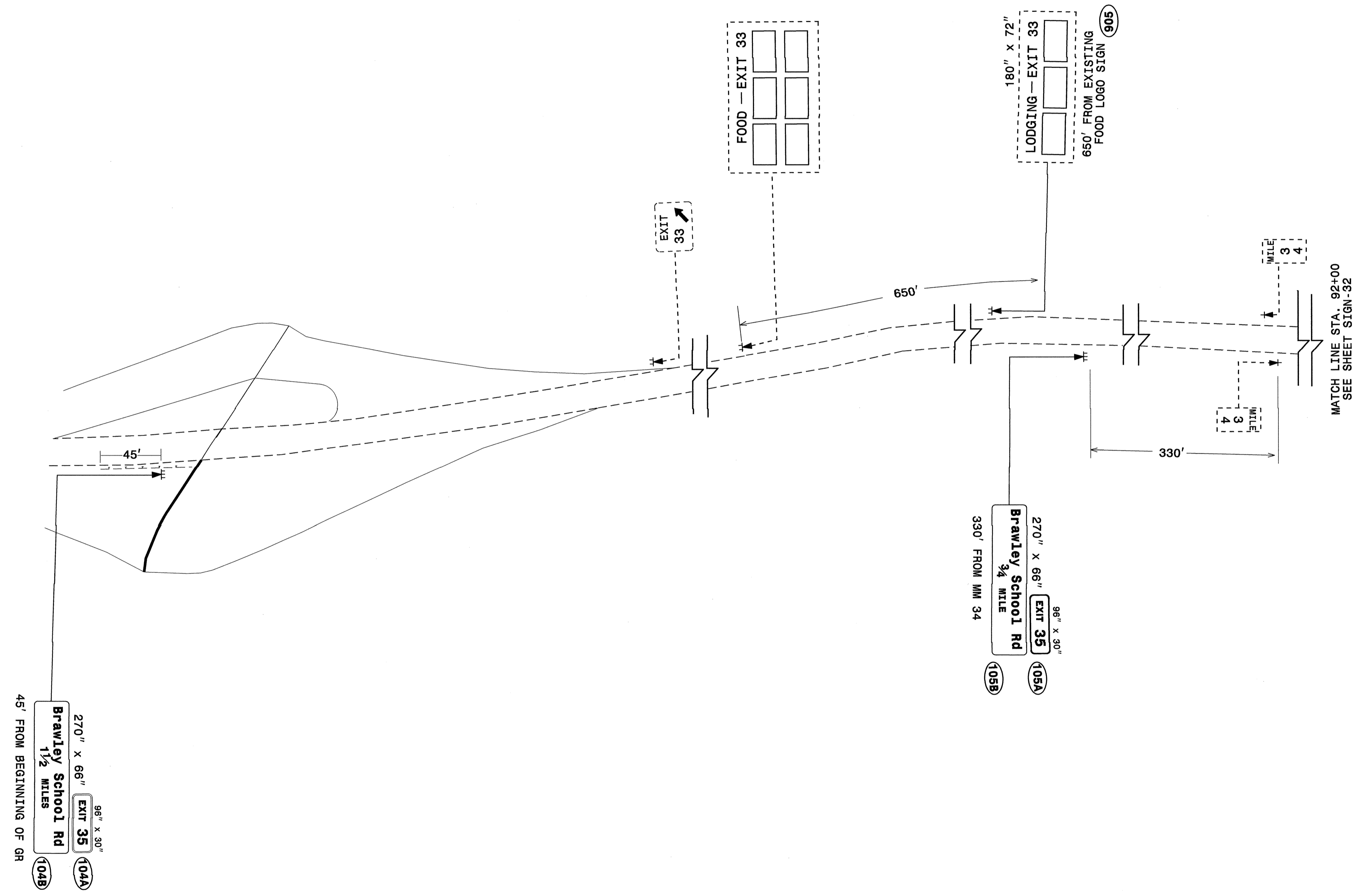
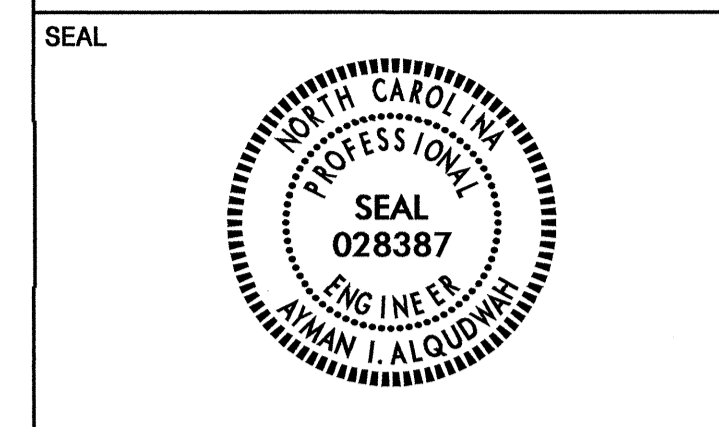
SEAL



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APPROVED: *[Signature]*
 DATE: 11/13/08



EXISTING AND PROPOSED SIGNS
 -Y6- EXIT 33 TO STA. 92+00
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