T.I.P.: R-2301A

METRIC

TIP NO.	SHEET NO.
R-2301A	SIGN-1

APPROVED: Ayman Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

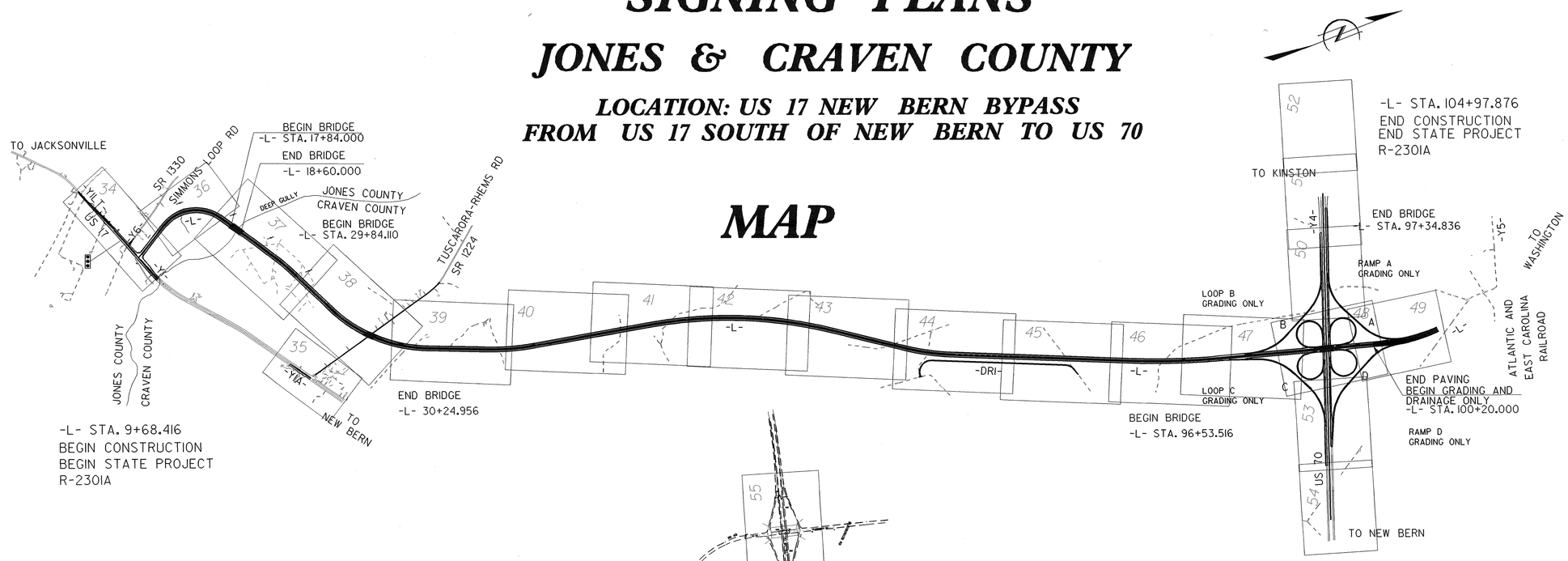
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLANS

JONES & CRAVEN COUNTY

LOCATION: US 17 NEW BERN BYPASS
FROM US 17 SOUTH OF NEW BERN TO US 70

MAP



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

RON KING, P.E. — SIGNING ENGINEER

AYMAN ALQUDWAH, P.E. — SIGNING PROJECT ENGINEER

D. MITCH EATON — SIGNING PROJECT DESIGN ENGINEER

E. WARD — SIGNING DESIGNER

TIP NO.	SHEET NO.
R-2301A	SIGN-2

APPROVED: Ayman Alqudwah

DATE: 9/2/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

SIGNS
SUMMARY OF QUANTITIES

ITEM NO. DESC. NO.	ITEM NO. SECT. NO.	ITEM DESCRIPTION	QUANTITY	UNIT
0001000000	800	MOBILIZATION		L.S.
4025000000	901	CONTRACTOR FURNISHED, TYPE A SIGN		S.M.
4025000000	901	CONTRACTOR FURNISHED, TYPE B SIGN		S.M.
4025000000	901	CONTRACTOR FURNISHED, TYPE D SIGN		S.M.
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN		S.M.
4025000000	901	CONTRACTOR FURNISHED, TYPE F SIGN		S.M.
4025000000	901	CONTRACTOR FURNISHED, OVERLAYS SIGN		S.M.
4025000000	901	CONTRACTOR FURNISHED, MILEMARKER SIGN		S.M.
4026000000	902	DEPARTMENT FURNISHED, TYPE A SIGN		S.M.
4026000000	902	DEPARTMENT FURNISHED, TYPE B SIGN		S.M.
4026000000	902	DEPARTMENT FURNISHED, TYPE D SIGN		S.M.
4026000000	902	DEPARTMENT FURNISHED, TYPE E SIGN		S.M.
4026000000	902	DEPARTMENT FURNISHED, TYPE F SIGN		S.M.
4026000000	902	DEPARTMENT FURNISHED, OVERLAYS SIGN		S.M.
4026000000	902	DEPARTMENT FURNISHED, MILEMARKER SIGN		S.M.
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	16	C.M.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION		C.M.
4057000000	SP	OVERHEAD FOOTING	83	C.M.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	6113	KG.
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM		KG.
4072000000	903	SUPPORTS, 4.5 KG STEEL U-CHANNEL (X - BRACING)	52	L.M.
4078000000	903	SUPPORTS, 3.5 KG STEEL U-CHANNEL	26	EA.
4079000000	903	SUPPORTS, BARRIER (SMALL)		EA.
4080000000	903	SUPPORTS, BARRIER (LARGE)		EA.
4080200000	903	SUPPORTS, STEEL SQUARE TUBE		L.M.
4082000000	903	SUPPORTS, WOOD	828	L.M.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "-L- 90+20"	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "-Y4- 3+80"	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "-Y4- 19+20"	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "-L- 96+20"	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "-Y1- 18+10"	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "-Y4- 8+60"	1	L.S.
4082100000	SP			L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "-Y4- 14+00"	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "-Y1- 20+50"	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "-Y4- 23+60"	1	L.S.
4082110000	SP	SUPPORTS, OVERHEAD DMS STRUCTURE AT STATION " "		EA.
4096000000	904	SIGN ERECTION, TYPE D	4	EA.
4102000000	904	SIGN ERECTION, TYPE E	90	EA.
4108000000	904	SIGN ERECTION, TYPE F	38	EA.
4109000000	904	SIGN ERECTION, TYPE A (OVERHEAD)		EA.
4109000000	904	SIGN ERECTION, TYPE B (OVERHEAD)		EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	8	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	12	EA.
4114000000	904	SIGN ERECTION, MILEMARKERS	26	EA.
4115000000	904	SIGN ERECTION, OVERLAY (OVERHEAD)		EA.
4116000000	904	SIGN ERECTION, OVERLAY (GROUND MOUNTED)	4	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE A (OVERHEAD)		EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE B(OVERHEAD)		EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE A (GROUND MOUNTED)	4	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE B (GROUND MOUNTED)		EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE D		EA.

ITEM NO. DESC. NO.	ITEM NO. SECT. NO.	ITEM DESCRIPTION	QUANTITY	UNIT
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E	1	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE F		EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN MILEMARKERS		EA.
4116200000	904	SIGN ERECTION, REPOSITION OVERHEAD		EA.
4116300000	904	SIGN ERECTION, LOGO TO PANEL		EA.
4116400000	904	SIGN ERECTION, LOGO TRAILBLAZER		EA.
4116500000	904	SIGN ERECTION, WALKWAY		L.M.
4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127000000	SP	LIGHTING FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4127500000	SP	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4128000000	SP	STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ********		L.S.
4132000000	907	STOCKPILE SUPPORT, STEEL BEAM		EA.
4138000000	907	DISPOSAL OF SUPPORT, STEEL BEAM	2	EA.
4140000000	907	STOCKPILE SUPPORT, WOOD		EA.
4141000000	907	DISPOSAL OF SUPPORT, WOOD	10	EA.
4142000000	907	STOCKPILE SUPPORT, OVERHEAD STRUCTURE		EA.
4143000000	907	DISPOSAL OF SUPPORT, OVERHEAD STRUCTURE		EA.
4148000000	907	STOCKPILE SIGN SYSTEM, OVERHEAD		EA.
4149000000	907	DISPOSAL OF SIGN SYSTEM, OVERHEAD		EA.
4151000000	907	STOCKPILE SIGN SYSTEM, STEEL BEAM		EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	9	EA.
4154000000	907	STOCKPILE SIGN SYSTEM, U-CHANNEL		EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	12	EA.
4157000000	907	STOCKPILE SIGN SYSTEM, WOOD		EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	44	EA.
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.

ITEM NO. DESC. NO.	ITEM NO. SECT. NO.	ITEM DESCRIPTION	QUANTITY	UNIT
4235000000	907	STOCKPILE SIGN, A OR B (GROUND MOUNTED)		EA.
4236000000	907	DISPOSAL OF SIGN, A OR B (GROUND MOUNTED)		EA.
4237000000	907	STOCKPILE SIGN, D, E OR F		EA.
4237500000	907	STOCKPILE SIGN, MILEMARKERS		EA.
4238000000	907	DISPOSAL OF SIGN, D, E OR F		EA.
4238500000	907	DISPOSAL OF SIGN, MILEMARKERS		EA.
4241000000	907	DISPOSAL OF SIGN, OVERLAY (OVERHEAD)		EA.
4242000000	907	DISPOSAL OF SIGN, OVERLAY (GROUND MOUNTED)		EA.
4250000000	907	STOCKPILE LIGHTING SYSTEM		EA.
4251000000	907	DISPOSAL OF LIGHTING SYSTEM		EA.
4252000000	907	STOCKPILE LIGHTING FIXTURES		EA.
4258000000	907	DISPOSAL OF LIGHTING FIXTURES		EA.
4262000000	907	STOCKPILE WALKWAY		EA.
4263000000	907	DISPOSAL OF WALKWAY		EA.
4355000000	SP	DYNAMIC MESSAGE SIGN SYSTEM INTEGRATION		L.S.
4355100000	SP	DYNAMIC MESSAGE SIGN SYSTEM "DMS-**"		L.S.
4355100000	SP	DYNAMIC MESSAGE SIGN SYSTEM "DMS-**"		L.S.
4355200000	SP	DMS SYSTEM SERVER COMPUTER		EA.
4355210000	SP	DMS SYSTEM CLIENT COMPUTER		EA.
4355220000	SP	DMS SYSTEM LAPTOP COMPUTER		EA.
4355230000	SP	DMS SYSTEM CONTROL SOFWARE		EA.
4355300000	SP	DYNAMIC MESSAGE SIGN MAINTENANCE TRAINING		EA.
4355310000	SP	DYNAMIC MEESAGE SIGN SYSTEM DESIGN APPROVAL TESTS		EA.
4355320000	SP	DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FACTORY TESTS		L.S.
4355330000	SP	DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FIELD TESTS		L.S.
4355340000	SP	DYNAMIC MESSAGE SIGN BENCH TEST UNIT		EA.
4355350000	SP	DYNAMIC MESSAGE SIGN SYSTEM NTCIP TESTS		EA.

ROADWAY STANDARD DRAWINGS
APPLICABLE TO THESE SIGNING PLANS

901.10	901.70	904.20
901.20	903.20	904.40
901.50	904.10	904.50

SIGNS
SUMMARY OF QUANTITIES

METRIC

TIP NO.	SHEET NO.
R-2301A	SIGN-3

APPROVED:

DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

Pay Item Notes:

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

General Notes:

SIGNS FURNISHED BY STATE

ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TW0 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 GRADE 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.	SHEET NO.
R-2301A	SIGN-1

APPROVED: Lyman I. Alguduah

DATE: 9/2/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER LYMAN I. ALGUDUAH

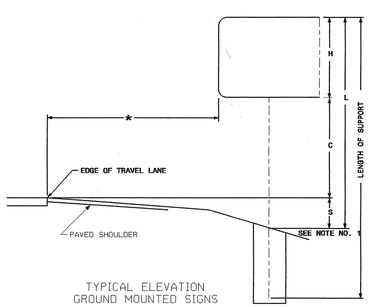
TYPE "A" AND TYPE "B" GROUND MOUNTED SIGNS

NOTES

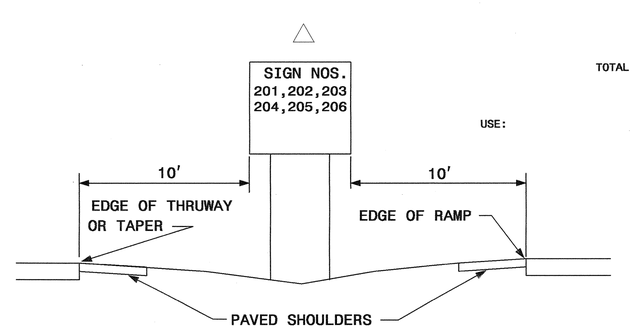
1. DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.
2. FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (*) ARTICLE 1072-1. (*) = N.C.D.O.T.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

SIGN NO.	SIGN TYPE	SIGN SIZE (mm) w x h	ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (m)	LENGTH (m) SNS HT H	MTG HT C	EMBED-MENT	LEFT SUPPORT (m) S	L	TOTAL LENGTH	CENTER SUPPORT (m) S	L	TOTAL LENGTH	RIGHT SUPPORT (m) S	L	TOTAL LENGTH	FOOTING DIAMETER (m)	FOOTING DEPTH (m)	B/A SUPPORT WEIGHTS (kg)	SIMPLE SUPPORT WEIGHTS (kg)	REINF. FTGS. (c.m.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
101	A	3100 X 2600	Y1LT 8+12	2	W6x12	BA	N/A	N/A	9.14	2.60	2.13	1.68	0.13	4.86	6.54	0.00	0.00	0.00	0.15	4.88	6.56	0.4572	1.8288	272.66	0.00	0.60	
102	A	4000 X 2300	Y1 27+50	2	W6x12	BA	N/A	N/A	9.14	2.30	2.13	1.68	0.24	4.67	6.35	0.00	0.00	0.00	0.29	4.72	6.40	0.4572	1.8288	266.41	0.00	0.60	
103	A	5300 X 3600	L 64+20	2	W10x26	BA	N/A	N/A	9.14	3.60	2.13	2.13	1.69	7.42	9.56	0.00	0.00	0.00	2.44	8.17	10.31	0.9144	2.286	899.30	0.00	3.00	
104	A	5300 X 3600	L 80+20	2	W10x26	BA	N/A	N/A	9.14	3.60	2.13	2.13	1.69	7.42	9.56	0.00	0.00	0.00	2.44	8.17	10.31	0.9144	2.286	899.30	0.00	3.00	
105A	B	2800 X 800																									
105B	A	4800 X 1100	Y4 4+10	2	W6x16	BA	1-R	N/A	9.14	1.10	2.13	1.83	1.20	4.43	6.26	0.00	0.00	0.00	1.70	4.93	6.76	0.4572	1.9812	370.18	0.00	0.65	
106A	B	2800 X 800																									
106B	A	4800 X 1100	Y4 (-7+90)	2	W6x16	BA	1-R	N/A	9.14	1.10	2.13	1.83	0.81	4.04	5.87	0.00	0.00	0.00	1.21	4.44	6.27	0.4572	1.9812	349.22	0.00	0.65	
107	B	3400 X 1100	Y4 (-20+65)	2	S4x7.7	BA	N/A	N/A	9.14	1.10	2.13	1.37	0.78	4.01	5.39	0.00	0.00	0.00	0.95	4.18	5.56	0.3048	1.524	143.78	0.00	0.22	
108A	B	2800 X 800																									
108B	A	3800 X 1700	Y4 (-23+85)	3	W6x12	BA	1-R	N/A	9.14	1.70	2.13	1.37	0.75	4.58	5.96	0.88	4.71	6.09	1.01	4.84	6.22	0.6096	1.524	384.09	0.00	1.33	
109	B	3100 X 500	L 64+20	2	S4x7.7	BA	N/A	N/A	9.14	0.50	2.13	1.07	1.67	4.30	5.37	0.00	0.00	0.00	2.00	4.63	5.70	0.3048	1.2192	145.28	0.00	0.18	
110A	B	3300 X 800																									
110B	A	4800 X 2900	Y4 137+30	2	W10x26	BA	1-R	N/A	9.14	2.90	2.13	2.13	1.10	6.13	8.27	0.00	0.00	0.00	2.00	7.03	9.17	0.762	2.286	805.28	0.00	2.09	
201	B	2700 X 1500	Y4 11+88	2	S4x7.7	BA	N/A	N/A	△	1.50	2.13	1.37	0.38	4.01	5.39	0.00	0.00	0.00	0.34	3.97	5.35	0.3048	1.524	141.38	0.00	0.22	
202	B	2700 X 1500	Y4 10+00	2	S4x7.7	BA	N/A	N/A	△	1.50	2.13	1.37	0.37	4.00	5.38	0.00	0.00	0.00	0.50	4.13	5.51	0.3048	1.524	143.10	0.00	0.22	
203	B	2700 X 1500	L 98+50.0	2	S4x7.7	BA	N/A	N/A	△	1.50	2.13	1.37	0.28	3.91	5.29	0.00	0.00	0.00	0.50	4.13	5.51	0.3048	1.524	142.07	0.00	0.22	
204	B	2700 X 1500	L 91+70	2	S4x7.7	BA	N/A	N/A	△	1.50	2.13	1.37	0.25	3.88	5.26	0.00	0.00	0.00	0.38	4.01	5.39	0.3048	1.524	140.35	0.00	0.22	
205	B	2300 X 1500	Y4 02+80	2	S4x7.7	BA	N/A	N/A	△	1.50	2.13	1.37	0.17	3.80	5.18	0.00	0.00	0.00	0.33	3.96	5.34	0.3048	1.524	138.86	0.00	0.22	
206	B	2300 X 1500	Y4 (-05+20)	2	S4x7.7	BA	N/A	N/A	△	1.50	2.13	1.37	0.27	3.90	5.28	0.00	0.00	0.00	0.38	4.01	5.39	0.3048	1.524	140.58	0.00	0.22	
901	A	4724 X 1961	Y4 15+60	2	W6x12	BA	N/A	N/A	9.14	1.96	2.13	1.68	0.36	4.45	6.13	0.00	0.00	0.00	0.52	4.61	6.29	0.4572	1.8288	260.55	0.00	0.60	
902	A	3658 X 1524	Y4 14+30	2	W6x9	BA	N/A	N/A	9.14	1.52	2.13	1.37	0.34	4.00	5.37	0.00	0.00	0.00	0.47	4.13	5.50	0.4572	1.524	174.20	0.00	0.50	
903	A	3353 X 914	Y4 16+30	2	S4x7.7	BA	N/A	N/A	9.14	0.91	2.13	1.22	0.34	3.39	4.61	0.00	0.00	0.00	0.46	3.51	4.73	0.3048	1.3716	125.37	0.00	0.20	
904	A	3658 X 1372	Y4 10+23	2	W6x9	BA	N/A	N/A	9.14	1.37	2.13	1.37	0.34	3.85	5.22	0.00	0.00	0.00	0.47	3.98	5.35	0.4572	1.524	170.13	0.00	0.50	

TOTAL	6112.06	0.00	15.46
USE:	6113	0	16



TYPICAL ELEVATION
GROUND MOUNTED SIGNS



TYPE "A" AND "B" SIGN INFORMATION SHEET

TIP NO.	SHEET NO.
R-2301A	SIGN-5

APPROVED: Lyman Alquadwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER LYMAN I. ALQUDWAH

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 AHALL BE MANUFACTURED FROM 28 GAUGE SHEET STEEL THAT CONFORMS TO A.S.T.M. A-36 AND IS GALVAVIZED 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.	SHEET NO.
R-2301A	SIGN-5A

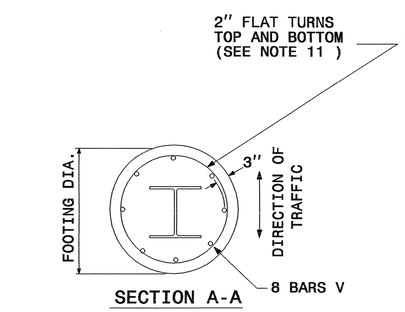
APPROVED: Ayman I. Alqudah

DATE: 7/10/08

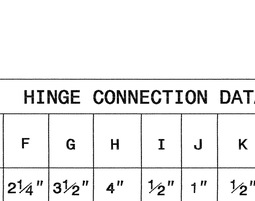
SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDAH

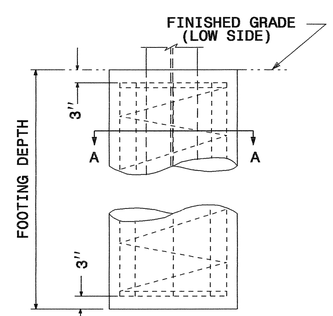
	SLIP BASE PLATE DATA								KEEPER PLATE DATA							HINGE CONNECTION DATA										BREAK AWAY SUPPORT WEIGHT CONSTANT LBS.
BEAM SHAPE	BOLT SIZE	A_1	B_1	C_1	D_1	E_1	T_1	R_1	A_2	B_2	C_2	D_2	E_2	R_2	T_2	BOLT SIZE	F	G	H	I	J	K	L	R_3	T_3	
S3X5.7	1/2"DIA.X 3"	7"	4"	1"	3/4"	2 1/2"	1"	9/32"	7"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2"DIA.X1 1/4"	2 1/4"	3 1/2"	4"	1/2"	1"	1/2"	2"	9/32"	3/8"	18
S4X7.7	1/2"DIA.X 3"	8"	4"	1"	3/4"	2 1/2"	1"	9/32"	8"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2"DIA.X1 1/4"	2 5/8"	3 1/2"	4"	1/2"	1"	1/2"	2"	9/32"	3/8"	20
W6X9	1/2"DIA.X 3"	10"	5"	1"	3/4"	3 1/2"	1"	9/32"	10"	5"	1"	3/4"	3 1/2"	9/32"	28 GAUGE	1/2"DIA.X1 1/4"	4"	3 1/2"	4"	3/4"	1"	1/2"	2"	9/32"	3/8"	32
W6X12	5/8"DIA.X3 3/4"	10"	5"	1 1/4"	7/8"	3 1/4"	1 1/4"	11/32"	10"	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"	10"	6"	1 1/4"	7/8"	4 1/4"	1 1/4"	11/32"	10"	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"	12 1/2"	6"	1 1/4"	7/8"	4 1/4"	1 1/2"	11/32"	12 1/2"	6"	1 1/4"	7/8"	4 1/4"	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"	12 1/2"	6"	1 1/2"	1"	4"	1 1/2"	13/32"	12 1/2"	6"	1 1/2"	1"	4"	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"	8"	1 1/2"	1"	6"	1 3/4"	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"	5/8"	140
W12X26	3/4"DIA.X4 3/4"	18"	9"	1 1/2"	1"	7"	1 3/4"	13/32"	18"	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"	21"	9"	2"	1 1/2"	6"	1 3/4"	17/32"	21"	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"	23"	9"	2"	1 1/2"	6"	1 3/4"	17/32"	23"	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"	1 3/4"	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"	25"	9"	2"	1 1/2"	6"	2"	17/32"	25"	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"	28"	9"	2"	1 1/2"	6"	2"	17/32"	28"	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



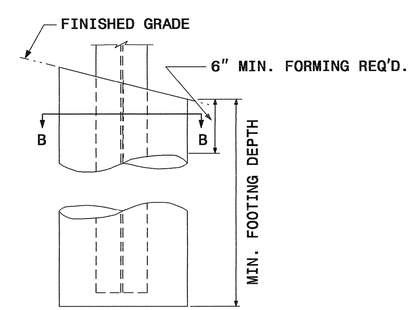
SECTION A-A



SECTION B-B



FOOTING DETAIL



FOOTING DETAIL

FOUNDATION DATA *		
FOOTING DIAMETER	REINFORCEMENT	SPIRAL BAR
1'	8 # 4 BARS	#3 BAR, 3" PITCH
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

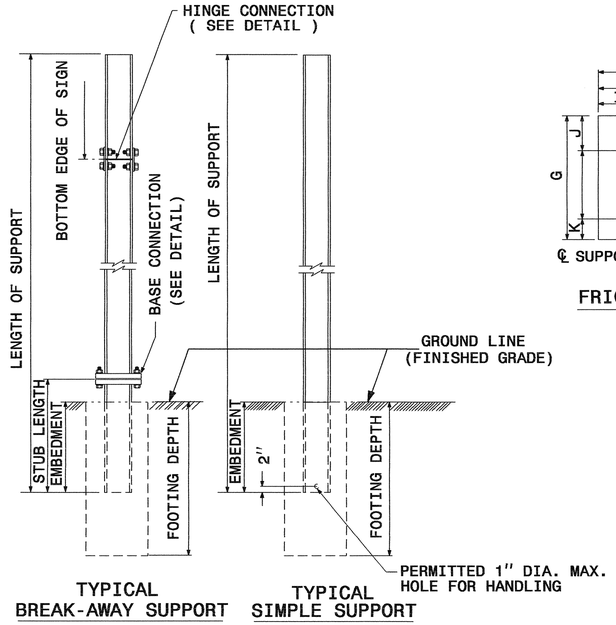
TIP NO.	SHEET NO.
R-2301A	SIGN-5B

APPROVED: Ayman Alquadrah

DATE: 7/10/08

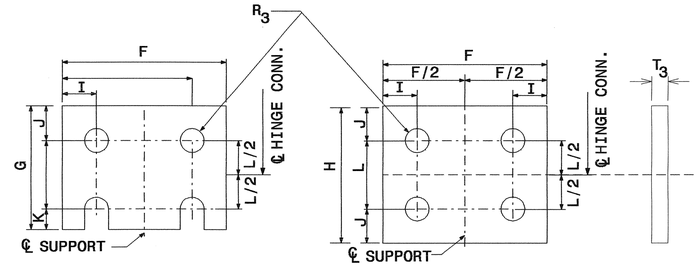
SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDRAH



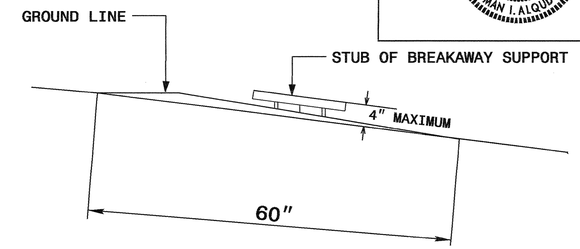
TYPICAL BREAK-AWAY SUPPORT

TYPICAL SIMPLE SUPPORT

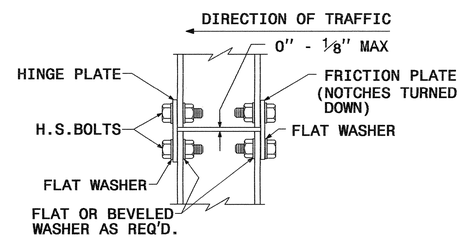


FRICTION PL DETAIL

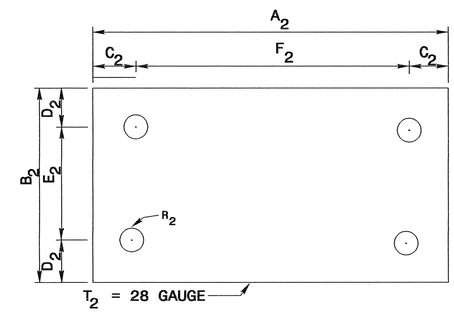
HINGE PL DETAIL



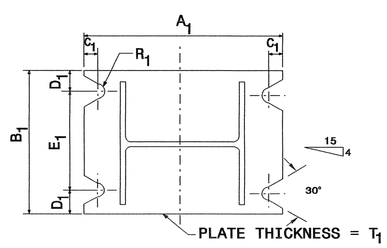
STUB HEIGHT REQUIREMENTS



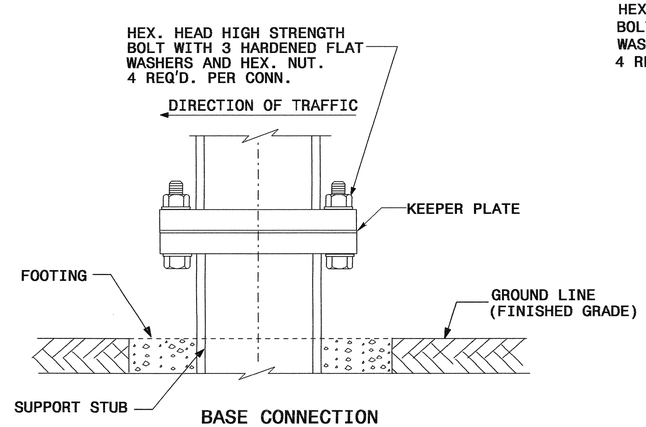
HINGE CONNECTION



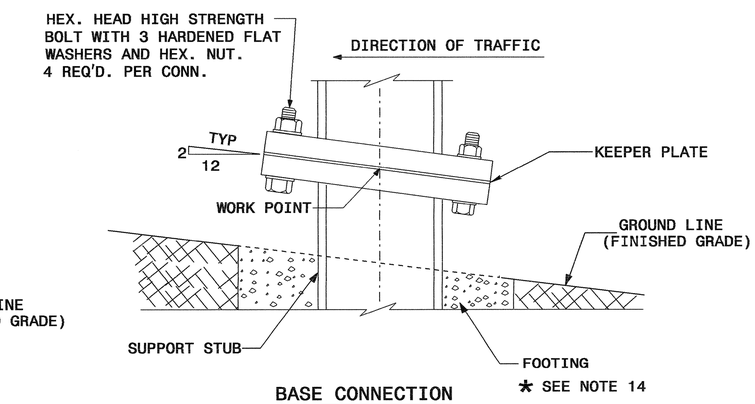
KEEPER PLATE



SLIP BASE PLATE



BASE CONNECTION



BASE CONNECTION

SEE SHEET SIGN-7 FOR DIMENSIONS.
SEE SHEET SIGN-8 FOR NOTES.

GROUND MOUNTED SIGN SUPPORT

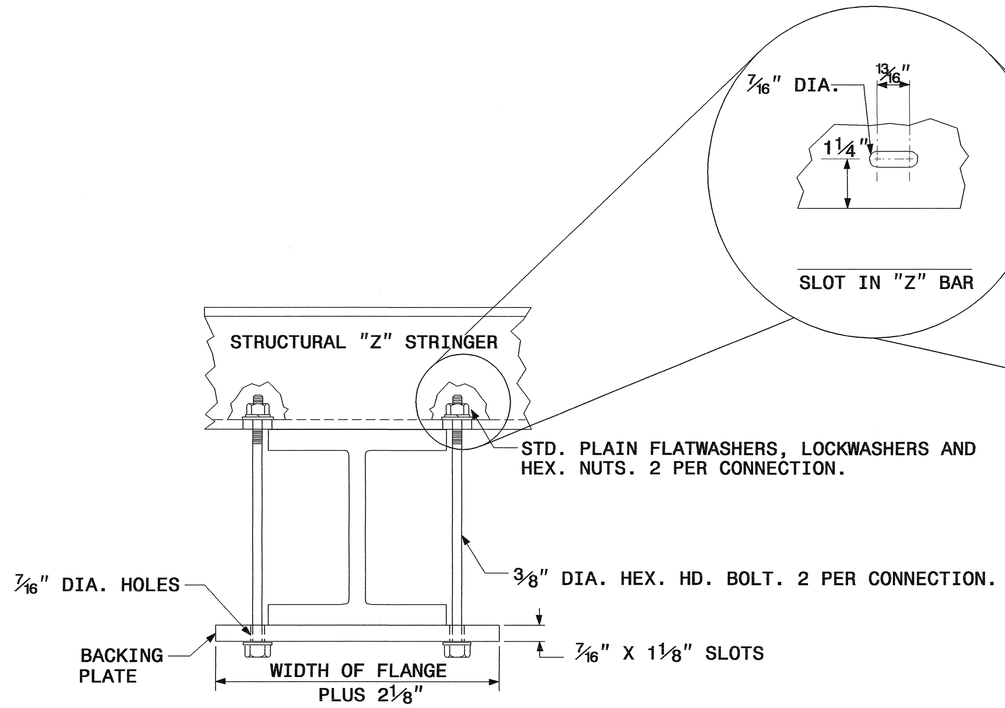
TIP NO.	SHEET NO.
R-2301A	SIGN-5C

APPROVED: Ayman I. Alquddah

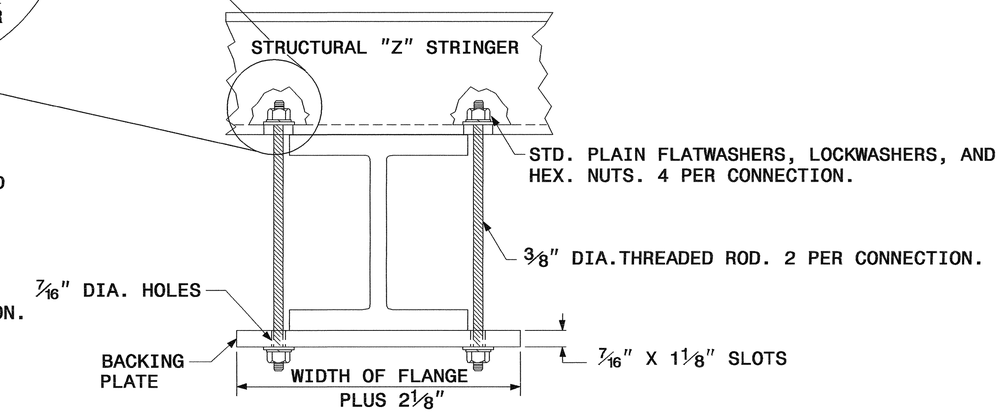
DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDDAH

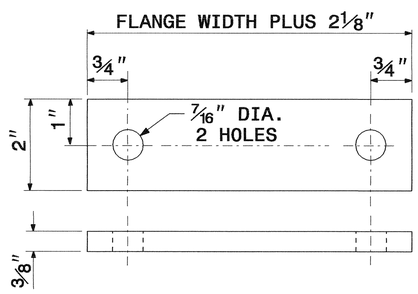


SUPPORT MOUNTING DETAIL

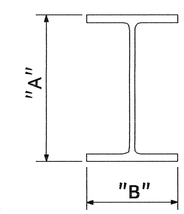


ALTERNATIVE SUPPORT MOUNTING DETAIL

BACKING PLATE DETAIL



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"

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

SIGN MOUNTING DETAILS

TIP NO.	SHEET NO.
R-2301A	SIGN-6

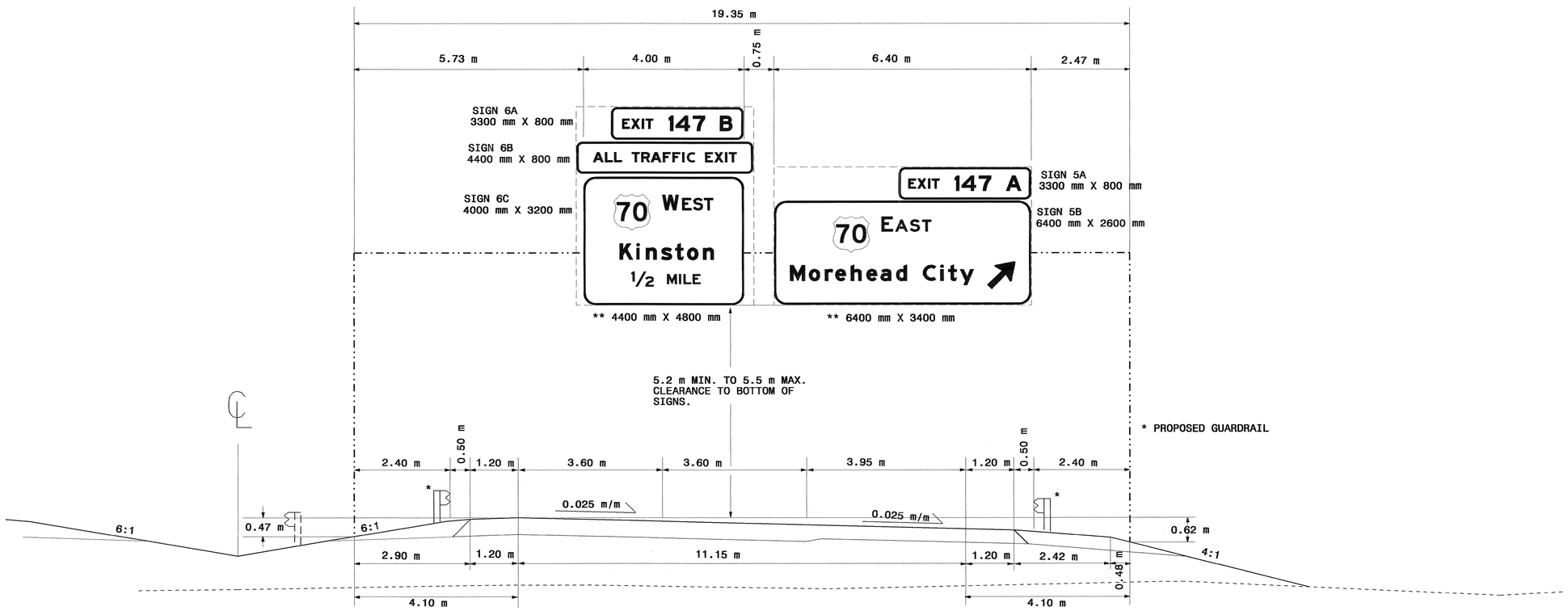
APPROVED: Ayman Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

** THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 209 KMPH.



OVERHEAD SIGN ASSEMBLY AT
-L- STA. 90+20.00

OVERHEAD SIGN ASSEMBLY AT
-L- STA. 90+20.00

METRIC

TIP NO.	SHEET NO.
R-2301A	SIGN-7

APPROVED: Ayman I. Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

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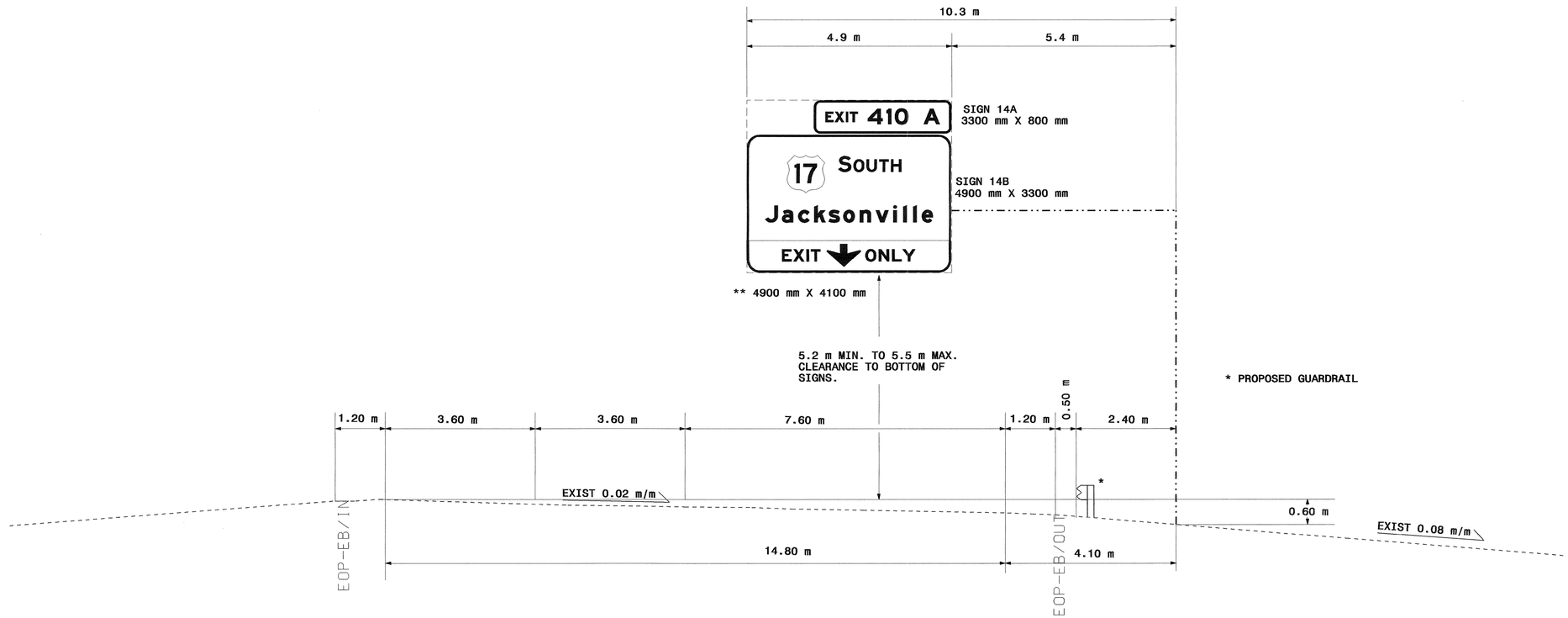


OVERHEAD SIGN ASSEMBLY AT
-Y4- STA. 03+80.00

OVERHEAD SIGN ASSEMBLY AT
-Y4- STA. 03+80.00

TIP NO.	SHEET NO.
R-2301A	SIGN-8

APPROVED: [signature]

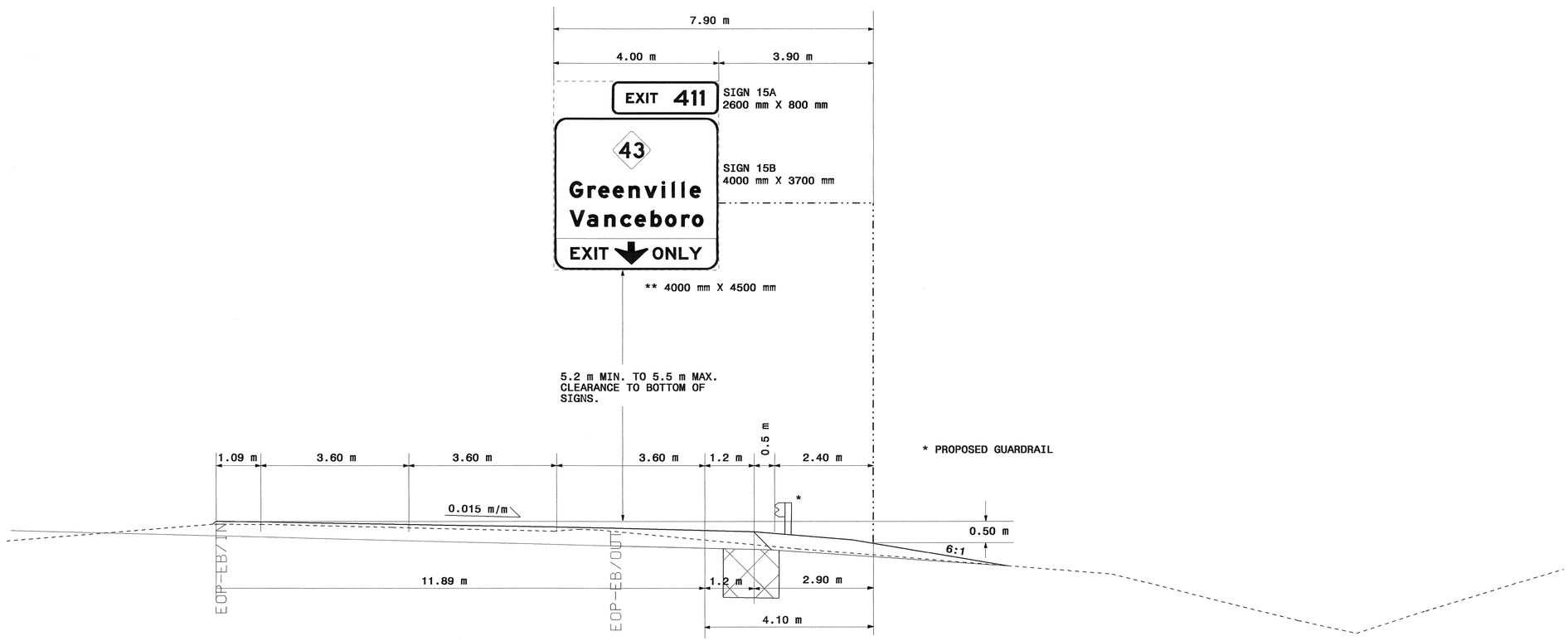
DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

METRIC

** THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 209 KMPH.



OVERHEAD SIGN ASSEMBLY AT
-Y4- STA. 19+20.00

OVERHEAD SIGN ASSEMBLY AT
-Y4- STA. 19+20.00

TIP NO.	SHEET NO.
R-2301A	SIGN-9

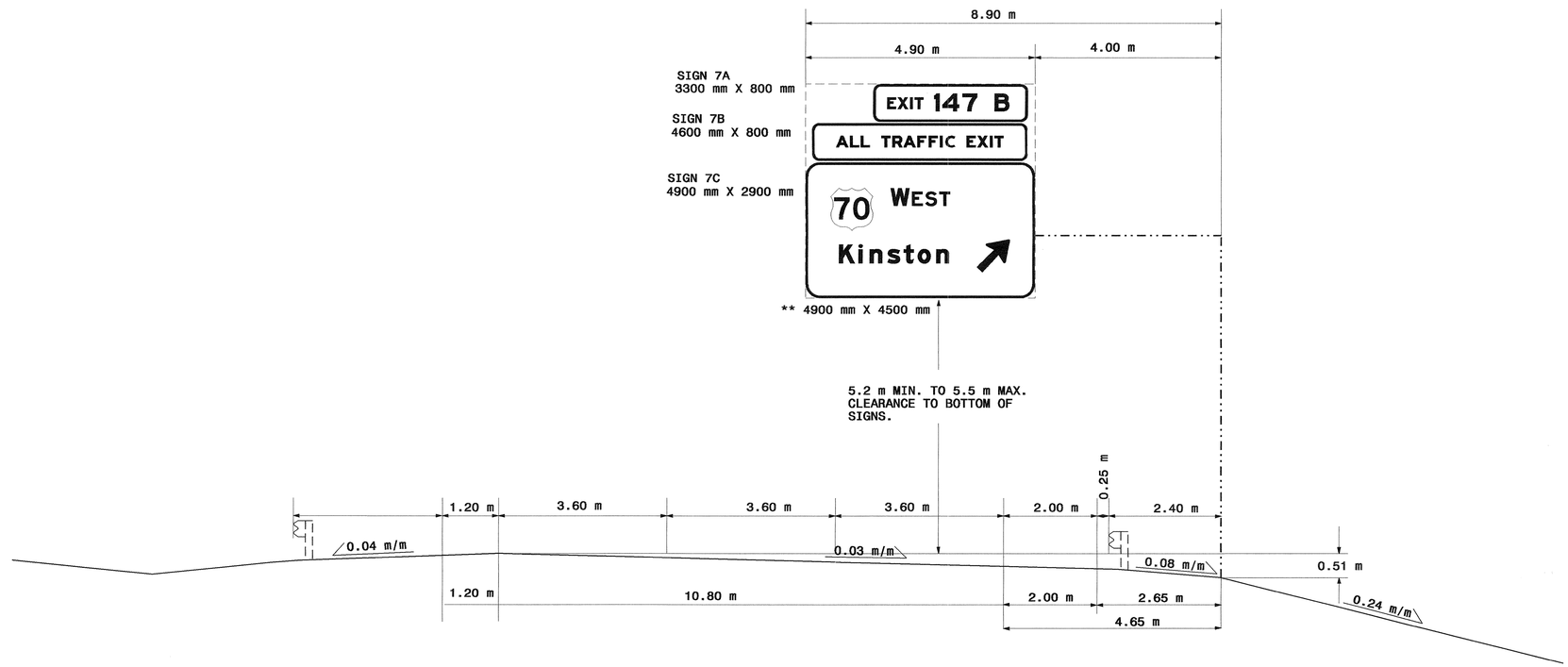
APPROVED: [signature]

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

** THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 209 KMPH.



OVERHEAD SIGN ASSEMBLY AT
-L- STA. 96+20.00

OVERHEAD SIGN ASSEMBLY AT
-L- STA. 96+20.00

TIP NO.	SHEET NO.
R-2301A	SIGN-10

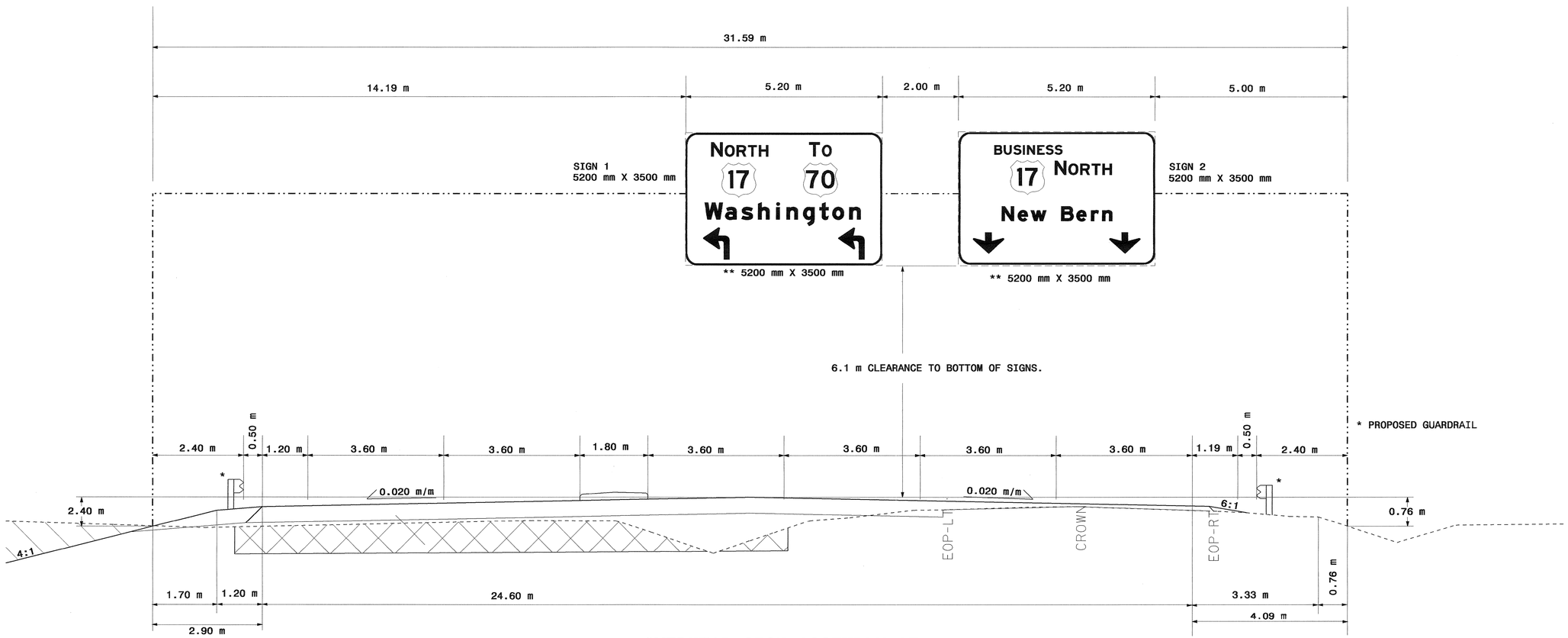
APPROVED: Ayman Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

** THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 209 KMPH.



OVERHEAD SIGN ASSEMBLY AT
-Y1- STA. 18+10.00

OVERHEAD SIGN ASSEMBLY AT
-Y1- STA. 18+10.00

TIP NO.	SHEET NO.
R-2301A	SIGN-11

APPROVED: Lyman I. Alqudah

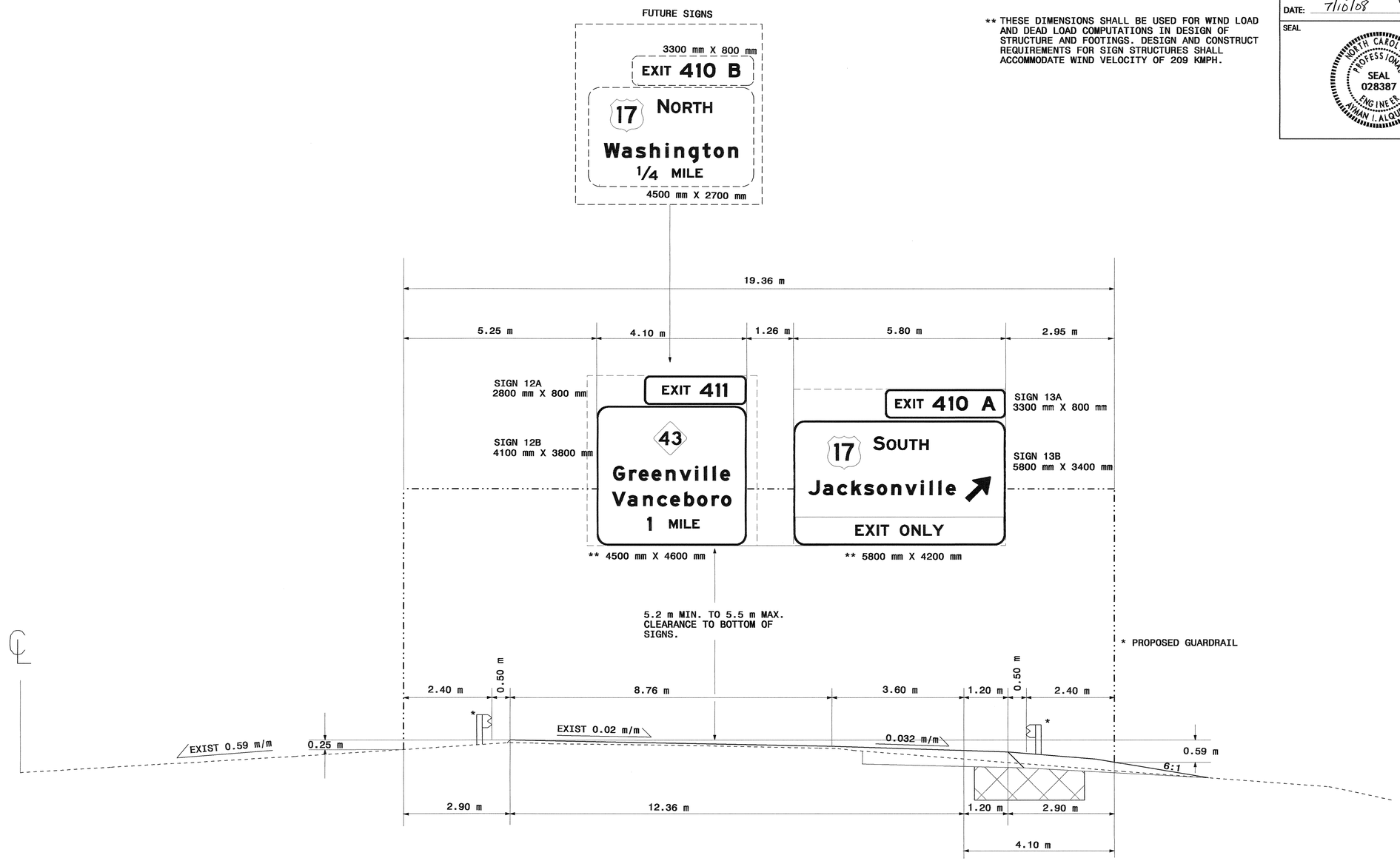
DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER LYMAN I. ALQUDAH

METRIC

** THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 209 KMPH.



OVERHEAD SIGN ASSEMBLY AT
-Y4- STA. 08+60.00

OVERHEAD SIGN ASSEMBLY AT
-Y4- STA. 08+60.00

METRIC

TIP NO.	SHEET NO.
R-2301A	SIGN-12

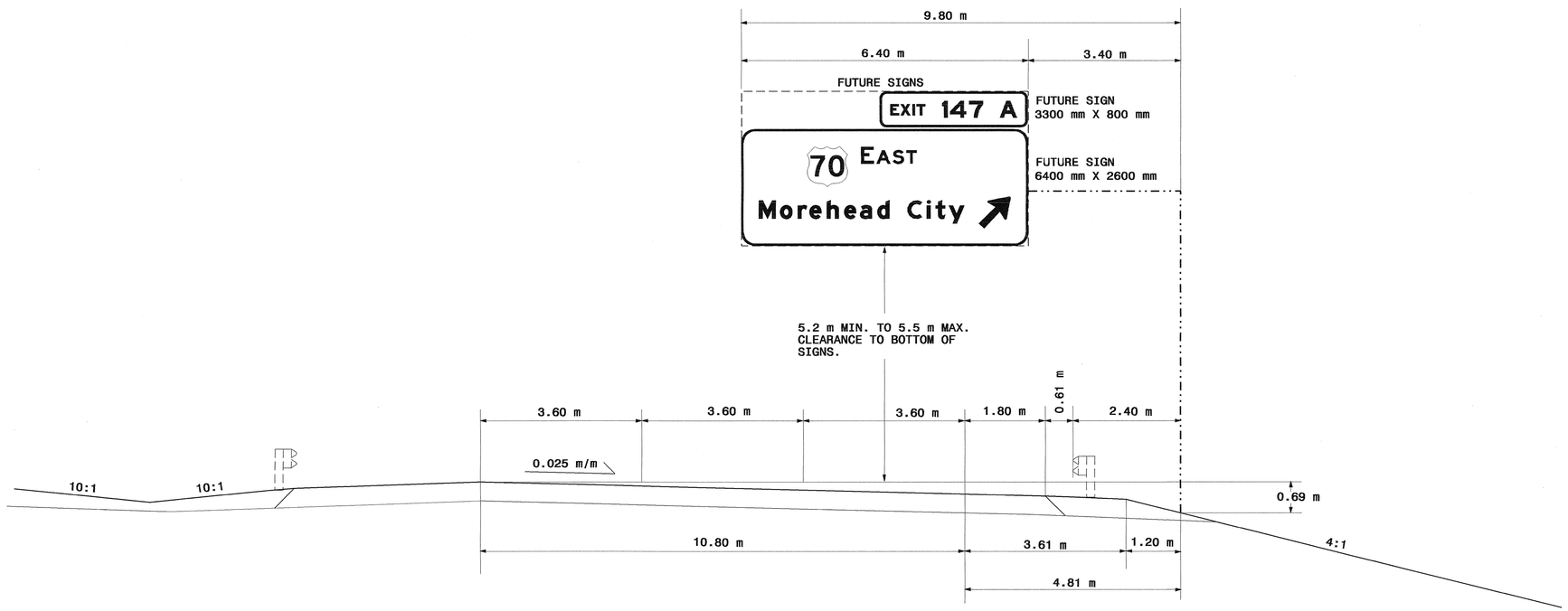
APPROVED: Ayman I. Alqudah

DATE: 8/13/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDAH

** THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 209 KMPH.



FUTURE OVERHEAD SIGN ASSEMBLY AT
-L- STA. 97+48.00

FUTURE OVERHEAD SIGN ASSEMBLY AT
-L- STA. 97+48.00

TIP NO.	SHEET NO.
R-2301A	SIGN-13

APPROVED: Ayman Alquduah

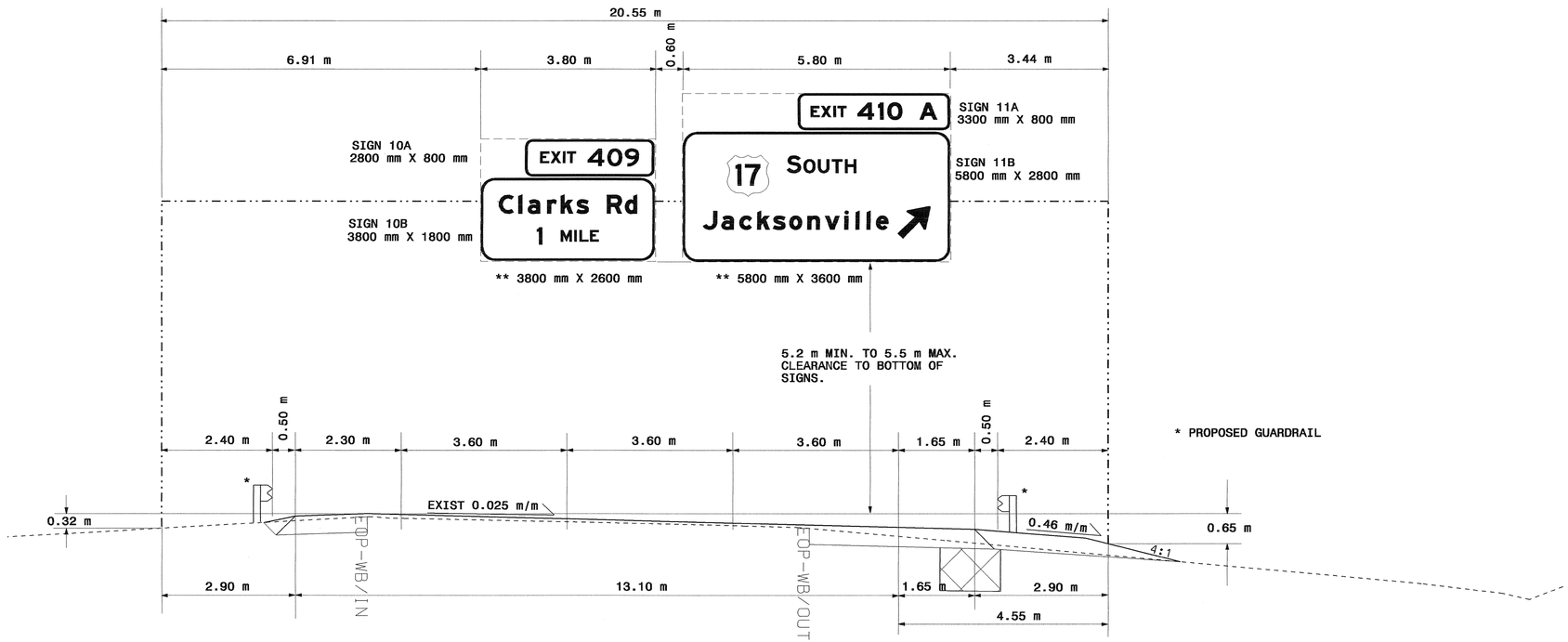
DATE: 7/16/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

METRIC

** THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 209 KMPH.



OVERHEAD SIGN ASSEMBLY AT
-Y4- STA. 14+00.00

OVERHEAD SIGN ASSEMBLY AT
-Y4- STA. 14+00.00

TIP NO.	SHEET NO.
R-2301A	SIGN-14

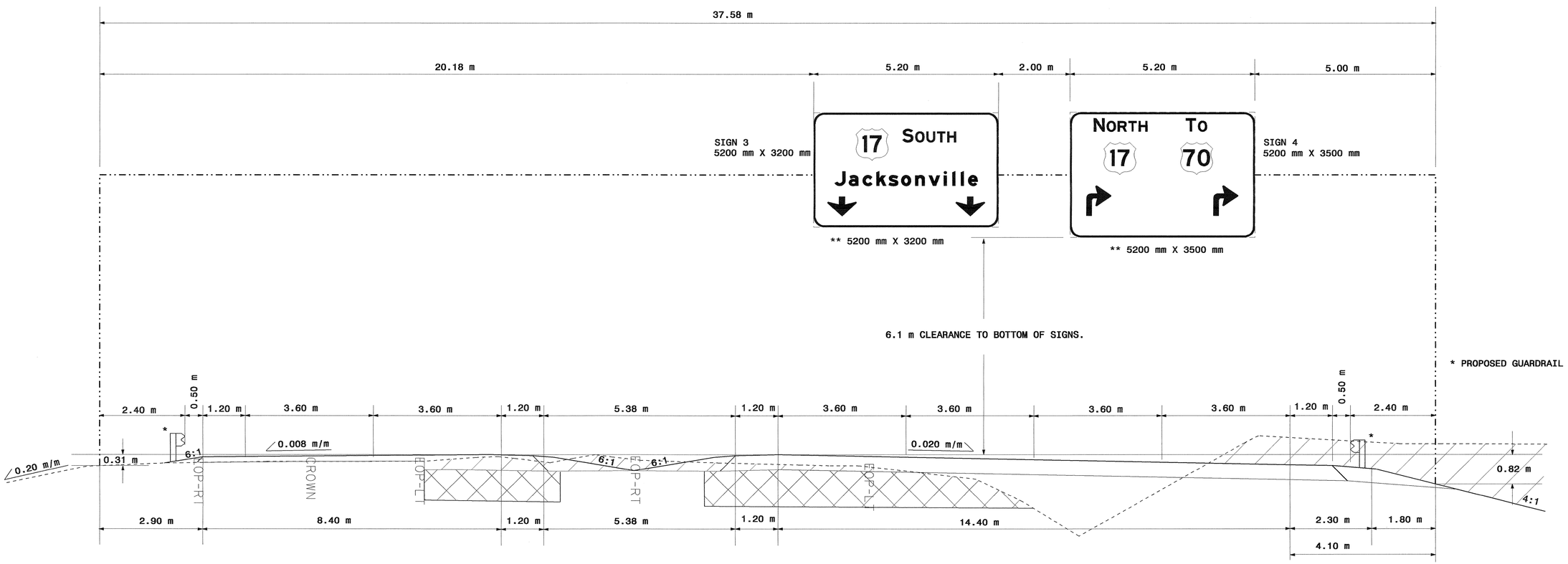
APPROVED: Hyman Alqudah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER HYMAN I. ALQUDAH

** THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 209 KMPH.



OVERHEAD SIGN ASSEMBLY AT
-Y1- STA. 20+50.00

OVERHEAD SIGN ASSEMBLY AT
-Y1- STA. 20+50.00

METRIC

TIP NO.	SHEET NO.
R-2301A	SIGN-15

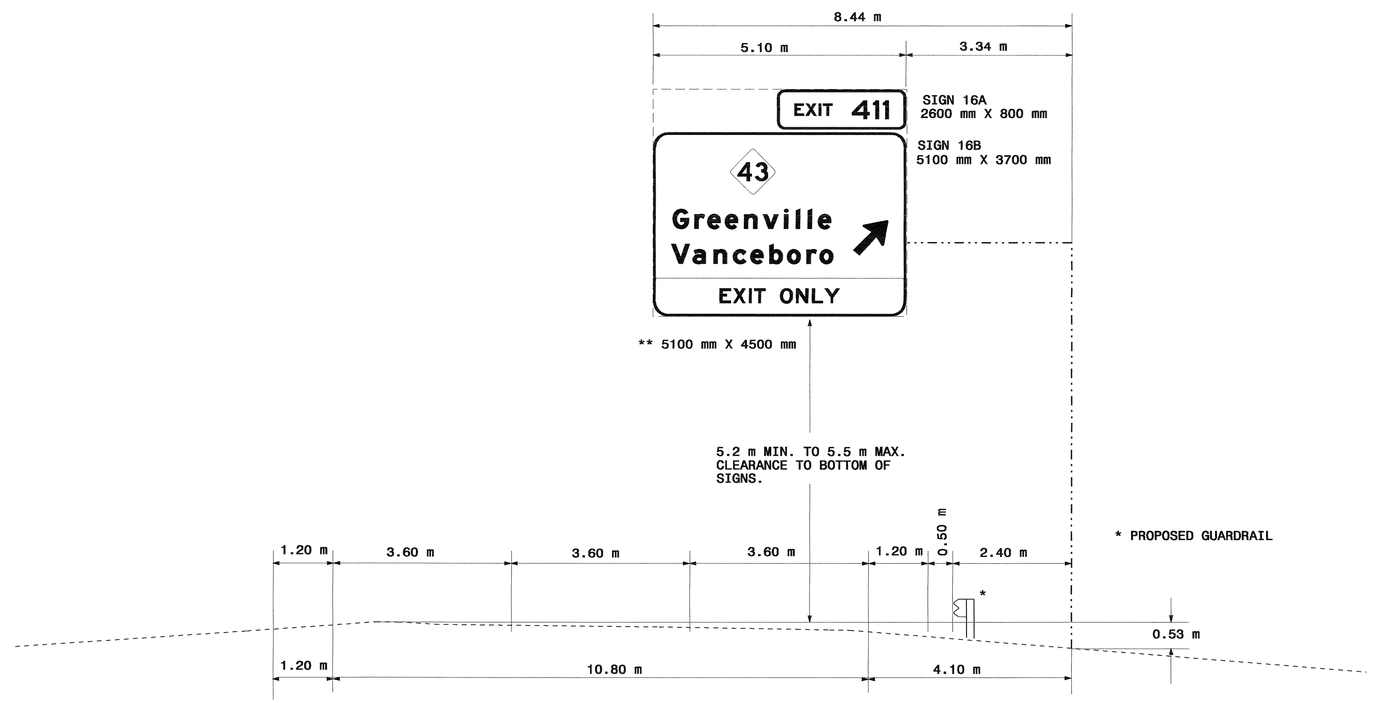
APPROVED: Ayman Alquidwah

DATE: 7/16/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

** THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 209 KMPH.



OVERHEAD SIGN ASSEMBLY AT
-Y4- STA. 23+60.00

OVERHEAD SIGN ASSEMBLY AT
-Y4- STA. 23+60.00

TIP NO.	SHEET NO.
R-2301A	SIGN-16

APPROVED: Ayman Alquduah

DATE: 7/16/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDUAH

SIGN NUMBER: 10A
TYPE: B
QUANTITY: 1

SIGN WIDTH: 2800mm
HEIGHT: 800mm
TOTAL AREA: 2.2 Sq.m

BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm

NO. Z BARS: 2
LENGTH: 2596.8

BACKG COLOR: Green
COPY COLOR: White

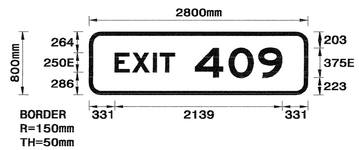
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A

CHECKED BY: D. M. EATON
DIV: 2

DATE: Jun 12, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

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

LETTER POSITIONS

Letter spacings are to start of next letter

							Series/Size Text Length
	E	X	I	T			E 2000
331	223	268	87	188	1704		765
	4	0	9				E 2000
1359	428	379	304	331			1110

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 15A
TYPE: D
QUANTITY: 1

SIGN WIDTH: 2600mm
HEIGHT: 800mm
TOTAL AREA: 2.1 Sq.m

BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm

NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

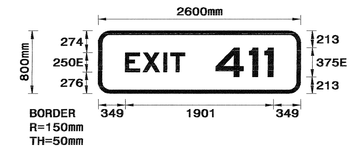
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A

CHECKED BY: D. M. EATON
DIV: 2

DATE: Jun 12, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

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

LETTER POSITIONS

Letter spacings are to start of next letter

							Series/Size Text Length
	E	X	I	T			E 2000
349	223	268	88	188	1486		765
	4	1	1				E 2000
1512	428	199	113	349			739

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 10B
TYPE: A
QUANTITY: 1

SIGN WIDTH: 3800mm
HEIGHT: 1800mm
TOTAL AREA: 6.8 Sq.m

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

NO. Z BARS: 2
LENGTH: 3596.8

BACKG COLOR: Green
COPY COLOR: White

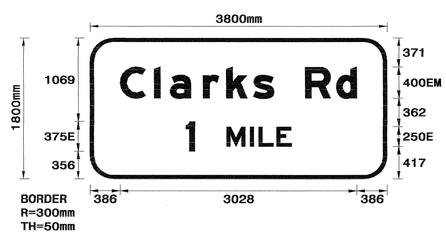
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A

CHECKED BY: D. M. EATON
DIV: 2

DATE: Jun 12, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

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

LETTER POSITIONS

Letter spacings are to start of next letter

												Series/Size Text Length
	C	l	a	r	k	s		R	d			EM 2000
386	436	204	424	296	344	264	400	396	264	386		3028
	M	I	L	E								E 2000
1752	300	110	230	188	1221							828
	1											E 2000
1230	113	2457										113

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 15B
TYPE: A
QUANTITY: 1

SIGN WIDTH: 4000mm
HEIGHT: 3700mm
TOTAL AREA: 14.8 Sq.m

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

NO. Z BARS: 4
LENGTH: 3796.8

BACKG COLOR: Green
COPY COLOR: White

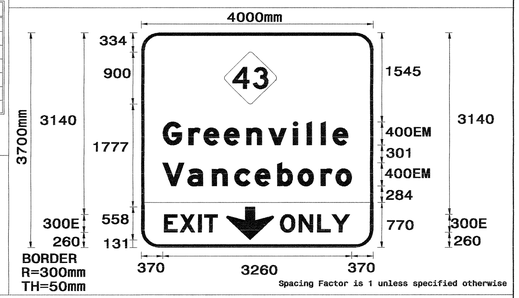
SYMBOL	X	Y	WID	HT
NC362	1431	2466	900	900
ARDOWN	1469	131	813	558

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A

CHECKED BY: D. M. EATON
DIV: 2

DATE: Jun 12, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2,3,4

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

LETTER POSITIONS

Letter spacings are to start of next letter

												Series/Size Text Length
	G	r	e	e	n	v	i	l	l	e		EM 2000
370	444	260	352	388	380	424	240	240	204	264	434	3196
	V	a	n	c	e	b	o	r	o			EM 2000
370	428	424	388	352	388	352	396	260	272	370		3260
	E	X	I	T								E 2000
396	267	321	105	225	2686							918
	O	N	L	Y								E 2000
2398	321	321	249	306	405							1197

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

OVERHEAD MOUNTED SIGN DESIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-17

APPROVED: Syman I. Alquadwari

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER SYMAN I. ALQUADWARI

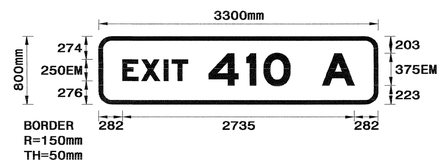
SIGN NUMBER: 11A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 3300mm
HEIGHT: 800mm
TOTAL AREA: 2.6 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm
NO. Z BARS: 2
LENGTH: 3096.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008



USE NOTES: 1,2

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

								Series/Size Text Length
	E	X	I	T				EM 2000
282	220	270	95	185	2248			770
	4	1	0		A			EM 2000
1300	446	203	315	375	379	282		1718

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

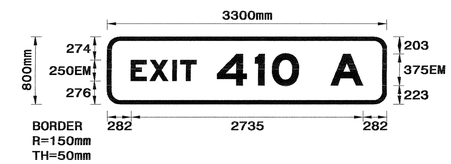
SIGN NUMBER: 14A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 3300mm
HEIGHT: 800mm
TOTAL AREA: 2.6 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm
NO. Z BARS: 2
LENGTH: 3096.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008



USE NOTES: 1,2

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

								Series/Size Text Length
	E	X	I	T				EM 2000
282	220	270	95	185	2248			770
	4	1	0		A			EM 2000
1300	446	203	315	375	379	282		1718

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

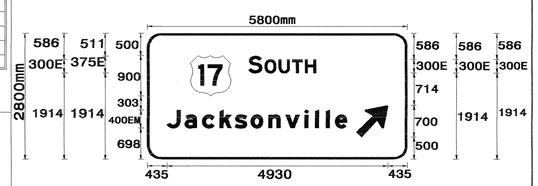
SIGN NUMBER: 11B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 5800mm
HEIGHT: 2800mm
TOTAL AREA: 16.2 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 3
LENGTH: 5596.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	962	1400	900	900
ARMED	4665	500	572	900

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008



USE NOTES: 1,2,3,4

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																		Series/Size Text Length
	S		O		U		T		H									E 2000
2259	304	60	252	60	243	60	225	60	243	2034								1507
	J	a	c	k	s	o	n	v	i	l	l	e						EM 2000
435	404	388	388	344	352	396	380	424	240	240	204	264	1341					4024

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

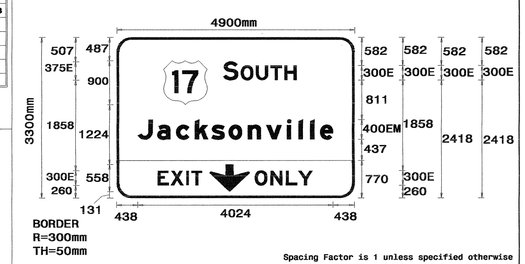
SIGN NUMBER: 14B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 4900mm
HEIGHT: 3300mm
TOTAL AREA: 16.2 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 7
LENGTH: 4892.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	965	1913	900	900
ARDOWN	1919	131	813	558

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008



USE NOTES: 1,2,3,4

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																		Series/Size Text Length
	S		O		U		T		H									E 2000
2199	304	60	252	60	243	60	225	60	243	1195								1507
	J	a	c	k	s	o	n	v	i	l	l	e						EM 2000
438	404	388	388	344	352	396	380	424	240	240	204	264	438					4024
	E	X	I	T														E 2000
846	267	321	105	225	3136													918
	O	N	L	Y														E 2000
2848	321	321	249	306	855													1197

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

OVERHEAD MOUNTED SIGN DESIGNS

METRIC

TIP NO.	SHEET NO.
R-2301A	SIGN-18

APPROVED: Lyman Alqudah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER LYMAN I. ALQUDAH

SIGN NUMBER: 12B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 4100mm
HEIGHT: 3800mm
TOTAL AREA: 15.6 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 4
LENGTH: 3896.8

BACKG COLOR: Green
COPY COLOR: White

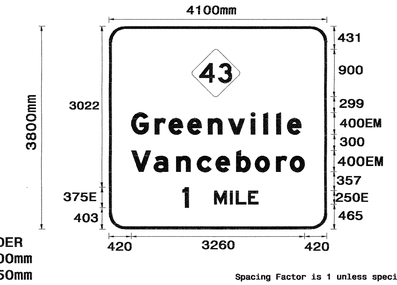
SYMBOL	X	Y	WID	HT
NC242	1558	2469	900	900

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008

USE NOTES: 1,2,3,4

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



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

															Series/Size Text Length
	G	r	e	e	n	v	i	l	l	e					EM 2000
420	444	260	352	388	380	424	240	240	204	264	484				3196
	V	a	n	c	e	b	o	r	o						EM 2000
420	428	424	388	352	388	352	396	260	272	420					3260
	M	I	L	E											E 2000
1981	300	110	230	188	1292										828
	1														E 2000
1385	112	2602													112

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 13A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 3300mm
HEIGHT: 800mm
TOTAL AREA: 2.6 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm
NO. Z BARS: 2
LENGTH: 3096.8

BACKG COLOR: Green
COPY COLOR: White

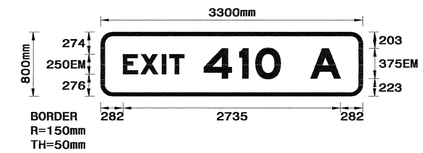
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008

USE NOTES: 1,2

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



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

															Series/Size Text Length
	E	X	I	T											EM 2000
282	220	270	95	185	2248										770
	4	1	0		A										EM 2000
1300	446	203	315	375	379	282									1718

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 12A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 2800mm
HEIGHT: 800mm
TOTAL AREA: 2.2 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm
NO. Z BARS: 2
LENGTH: 2596.8

BACKG COLOR: Green
COPY COLOR: White

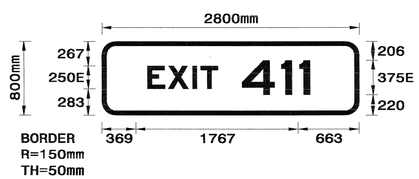
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008

USE NOTES: 1,2

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



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

															Series/Size Text Length
	E	X	I	T											E 2000
498	223	268	88	188	1537										765
	4	1	1												E 2000
1526	428	199	113	535											739

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 13B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 5800mm
HEIGHT: 3400mm
TOTAL AREA: 19.7 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 3
LENGTH: 5596.8

BACKG COLOR: Green
COPY COLOR: White

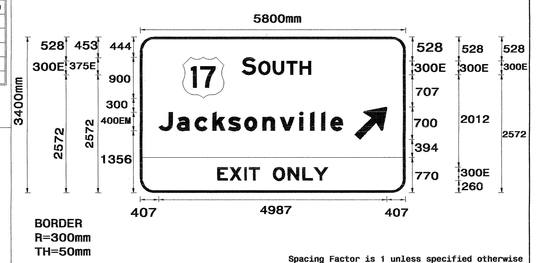
SYMBOL	X	Y	WID	HT
M1_4	933	2056	900	900
ARMED	4693	1165	572	900

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008

USE NOTES: 1,2,3,4

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



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

															Series/Size Text Length
	S		O		U		T		H						E 2000
2229	304	60	252	60	243	60	225	60	243	2064					1507
	J	a	c	k	s	o	n	v	i	l	l	e			EM 2000
407	404	388	388	344	352	396	380	424	240	240	204	264	1369		4024
	E	X	I	T		O	N	L	Y						E 2000
1693	267	321	105	237	288	321	321	249	306	1693					2415

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

OVERHEAD MOUNTED SIGN DESIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-19

METRIC

APPROVED: Lyman Alquadwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER LYMAN I. ALQUDWAH

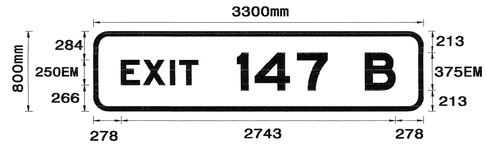
SIGN NUMBER: 7A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 3300mm
HEIGHT: 800mm
TOTAL AREA: 2.6 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm
NO. Z BARS: 2
LENGTH: 3096.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008



BORDER
R=150mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

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

LETTER POSITIONS

Letter spacings are to start of next letter

									Series/Size Text Length
		E	X	I	T				EM 2000
	278	220	270	95	185	2252			770
		1	4	7		B			EM 2000
	1439	176	424	304	375	304	278		1583

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 7B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 4600mm
HEIGHT: 800mm
TOTAL AREA: 3.7 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm
NO. Z BARS: 2
LENGTH: 4396.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008

BORDER
R=150mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

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

LETTER POSITIONS

Letter spacings are to start of next letter

																					Series/Size Text Length
		A	L	L		T	R	A	F	F	I	C		E	X	I	T				
	511	302	229	188	254	234	234	302	241	241	112	206	254	224	274	97	188	511			EM 2000
																					3579

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

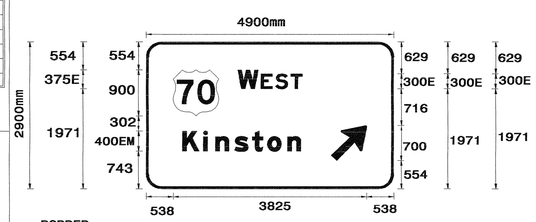
SIGN NUMBER: 7C
TYPE: A
QUANTITY: 1
SIGN WIDTH: 4900mm
HEIGHT: 2900mm
TOTAL AREA: 14.2 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 3
LENGTH: 4696.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
N1_4	538	1446	900	900
ARNED	3662	554	572	900

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008



BORDER
R=300mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2,3,4

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

LETTER POSITIONS

Letter spacings are to start of next letter

																					Series/Size Text Length
		W		E		S		T													
	1820	398	60	225	60	243	60	225	1809												E 2000
																					1271
		K	i	n	s	t	o	n													EM 2000
	718	416	240	380	348	300	396	264	1838												2344

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

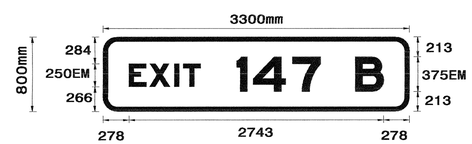
SIGN NUMBER: 6A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 3300mm
HEIGHT: 800mm
TOTAL AREA: 2.6 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm
NO. Z BARS: 2
LENGTH: 3096.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008



BORDER
R=150mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

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

LETTER POSITIONS

Letter spacings are to start of next letter

																					Series/Size Text Length
		E	X	I	T																
	278	220	270	95	185	2252															EM 2000
																					770
		1	4	7		B															EM 2000
	1439	176	424	304	375	304	278														1583

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

OVERHEAD MOUNTED SIGN DESIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-20

METRIC

APPROVED: Hyman Alquduah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER HYMAN I. ALQUDUAH

SIGN NUMBER: 6B
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 4400mm
HEIGHT: 800mm
TOTAL AREA: 3.5 Sq.m

BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm

NO. Z BARS: 2
LENGTH: 4196.8

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A

CHECKED BY: D. M. EATON
DIV: 2

DATE: Jun 12, 2008

USE NOTES: 1,2

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

BORDER
R=150mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																												Series/Size Text Length
	A	L	L		T	R	A	F	F	I	C		E	X	I	T												EM 2000
411	302	229	188	254	234	234	302	241	241	112	206	254	224	274	97	188	411											3579

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 5A
TYPE: B
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 3300mm
HEIGHT: 800mm
TOTAL AREA: 2.6 Sq.m

BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm

NO. Z BARS: 2
LENGTH: 3096.8

MAT'L: 0.125" (3.2 mm) ALUMINUM

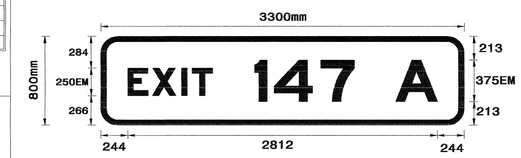
DESIGN BY: D. PILLAR
PROJECT ID: R-2301A

CHECKED BY: D. M. EATON
DIV: 2

DATE: Jun 12, 2008

USE NOTES: 1,2

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



BORDER
R=150mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																												Series/Size Text Length
	E	X	I	T																								EM 2000
244	220	270	95	185	2286																							770
	1	4	7		A																							EM 2000
1399	176	424	304	375	379	244																						1658

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 6C
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	756	1868	900	900

SIGN WIDTH: 4000mm
HEIGHT: 3200mm
TOTAL AREA: 12.8 Sq.m

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

NO. Z BARS: 3
LENGTH: 3796.8

MAT'L: 0.125" (3.2 mm) ALUMINUM

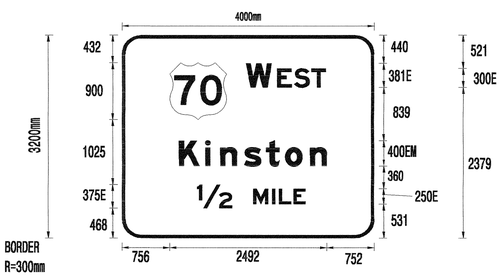
DESIGN BY: D. PILLAR
PROJECT ID: R-2301A

CHECKED BY: D. M. EATON
DIV: 2

DATE: Jun 12, 2008

USE NOTES: 1,2,3,4

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



BORDER
R=300mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																												Series/Size Text Length
	W		E	S	T																							E 2000
1969	404	92	267	276	225	767																						1264
	K	i	n	s	t	o	n																					EM 2000
904	416	240	380	348	300	396	264	752																				2344
	M	I	L	E																								E 2000
2085	300	110	230	188	1087																							828
	1/2																											E 2000
1196	549	2255																										549

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 5B
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	1468	1310	900	900
ARMED	5303	390	572	900

SIGN WIDTH: 6400mm
HEIGHT: 2600mm
TOTAL AREA: 16.6 Sq.m

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

NO. Z BARS: 3
LENGTH: 6196.8

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A

CHECKED BY: D. M. EATON
DIV: 2

DATE: Jun 12, 2008

USE NOTES: 1,2,3,4

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

BORDER
R=300mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																												Series/Size Text Length
	E		A		S		T																					E 2000
2676	281	60	306	60	243	60	225	2489																				1235
	M	o	r	e	h	e	a	d		C	i	t	y															EM 2000
397	472	396	260	388	388	352	388	264	400	436	200	292	340	1427														4576

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

OVERHEAD MOUNTED SIGN DESIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-21

APPROVED: [signature]

DATE: 8/18/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

SIGN NUMBER: 4
TYPE: A
QUANTITY: 1

SIGN WIDTH: 5200mm
HEIGHT: 3500mm
TOTAL AREA: 18.2 Sq.m

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

NO. Z BARS: 3
LENGTH: 4996.8

BACKG COLOR: Green
COPY COLOR: White

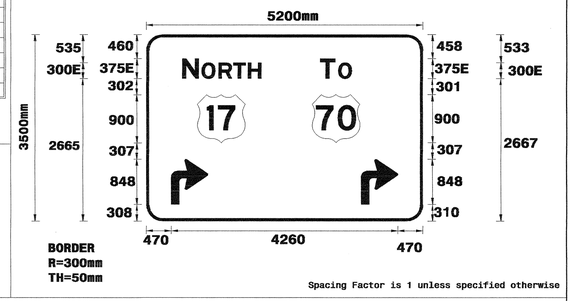
SYMBOL	X	Y	WID	HT
M1_4	3116	1465	900	900
M1_4	957	1463	900	900
AR90L2	4042	310	688	848
AR90L2	470	308	688	848

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4

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

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008



BORDER
R=300mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

									Series/Size Text Length
		T		O					E 2000
	3267	281	60	252	1340				593
		N		O	R	T	H		E 2000
	677	304	60	321	276	276	243	3044	1480

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 3
TYPE: A
QUANTITY: 1

SIGN WIDTH: 5200mm
HEIGHT: 3200mm
TOTAL AREA: 16.6 Sq.m

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

NO. Z BARS: 3
LENGTH: 4996.8

BACKG COLOR: Green
COPY COLOR: White

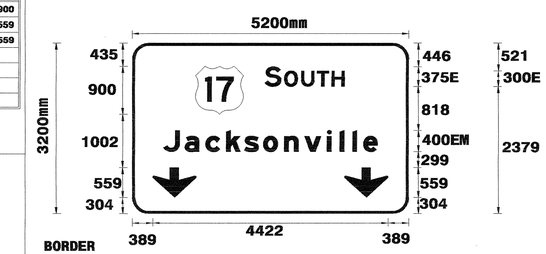
SYMBOL	X	Y	WID	HT
M1_4	1192	1865	900	900
ARDOWN	389	304	814	559
ARDOWN	3997	304	814	559

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4

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

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008



BORDER
R=300mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

															Series/Size Text Length
		S		O	U	T	H								E 2000
	2497	304	60	321	294	276	243	1206							1498
		J	a	c	k	s	o	n	v	i	l	l	e		EM 2000
	589	404	388	388	344	352	396	380	424	240	240	204	264	587	4024

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

OVERHEAD MOUNTED SIGN DESIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-22

APPROVED: [signature]

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

SIGN NUMBER: 1
TYPE: A
QUANTITY: 1
SIGN WIDTH: 5200mm
HEIGHT: 3500mm
TOTAL AREA: 18.2 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 3
LENGTH: 4996.8

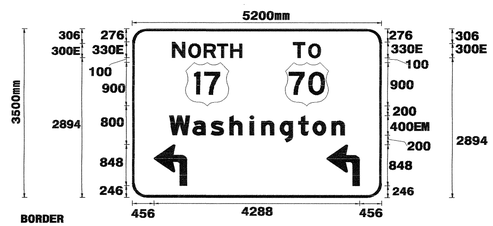
BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	1111	1894	900	900
M1_4	3189	1894	900	900
AR90L2	456	246	688	848
AR90L2	4056	246	688	848

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,3,4
1. Legend and border shall be direct applied Grade A reflective sheeting.
2. Legend and border shall be direct applied non-reflective sheeting.
3. Shields shall be Grade A reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
4. Background shall be Grade A reflective sheeting.
5. Background shall be Type I reflective sheeting.
6. Center arrow(s) vertically on sign.
7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

DESIGN BY: DNE
PROJECT ID: R-2301A
CHECKED BY: DNE
DIV: 2
DATE: Jul 03, 2008



BORDER
R=300mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

														Series/Size Text Length
	N		O	R	T	H								E 2000
833	267	73	321	276	276	243	2911							1456
	T		O											E 2000
3353	248	73	252	1275										573
	W	a	s	h	i	n	g	t	o	n				EM 2000
776	484	380	388	424	240	388	384	300	396	264	776			3648

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 2
TYPE: A
QUANTITY: 1
SIGN WIDTH: 5200mm
HEIGHT: 3500mm
TOTAL AREA: 18.2 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 3
LENGTH: 4996.8

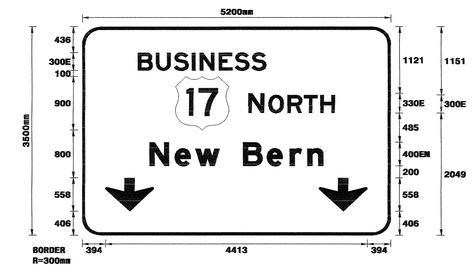
BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	1571	1764	900	900
ARDOWN	394	406	813	558
ARDOWN	3994	406	813	558

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,3,4
1. Legend and border shall be direct applied Grade A reflective sheeting.
2. Legend and border shall be direct applied non-reflective sheeting.
3. Shields shall be Grade A reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
4. Background shall be Grade A reflective sheeting.
5. Background shall be Type I reflective sheeting.
6. Center arrow(s) vertically on sign.
7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

DESIGN BY: DNE
PROJECT ID: R-2301A
CHECKED BY: DNE
DIV: 2
DATE: Jul 03, 2008



BORDER
R=300mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

														Series/Size Text Length
	B	U	S	I	N	E	S	S						E 2000
943	303	303	303	132	321	267	285	243	2100					2157
	N		O	R	T	H								E 2000
2801	267	73	321	276	276	243	943							1456
	N	e	w		B	e	r	n						EM 2000
1138	424	344	408	400	400	388	296	264	1138					2924

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 16A
TYPE: D
QUANTITY: 1
SIGN WIDTH: 2600mm
HEIGHT: 800mm
TOTAL AREA: 2.1 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm
NO. Z BARS:
LENGTH:

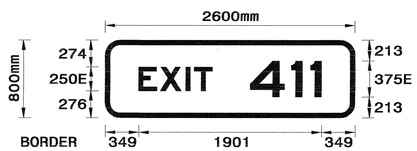
BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

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

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008



BORDER
R=150mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

														Series/Size Text Length
	E	X	I	T										E 2000
349	223	268	88	188	1486									765
	4	1	1											E 2000
1512	428	199	113	349										739

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 16B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 5100mm
HEIGHT: 3700mm
TOTAL AREA: 18.9 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 4
LENGTH: 4896.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
HC362	1556	2461	900	900
ARMED	4035	1233	572	900

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4
1. Legend and border shall be direct applied Grade A, sheeting.
2. Background shall be Grade C reflective sheeting.
3. Shields shall be on 0.032" (0.8mm) aluminum and demountable.
4. Shields shall be Grade A sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

DESIGN BY: D. PILLAR
PROJECT ID: R-2301A
CHECKED BY: D. M. EATON
DIV: 2
DATE: Jun 12, 2008

BORDER
R=300mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

														Series/Size Text Length
	G	r	e	e	n	v	i	l	l	e				EM 2000
389	444	260	352	388	380	424	240	240	204	264	1515			3196
	V	a	n	c	e	b	o	r	o					EM 2000
365	428	424	388	352	388	352	396	260	272	1475				3260
	E	X	I	T		O	N	L	Y					E 2000
1343	267	321	105	237	288	321	321	249	306	1343				2415

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

OVERHEAD MOUNTED SIGN DESIGNS

METRIC

TIP NO.	SHEET NO.
R-2301A	SIGN-23

APPROVED: Lyman I. Alquadwan

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER LYMAN I. ALQUDWAN

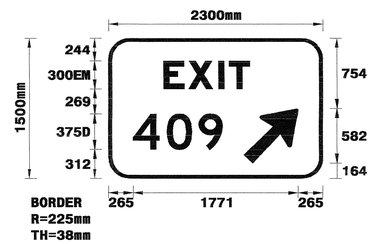
SIGN NUMBER: 205
TYPE: B
QUANTITY: 1
SIGN WIDTH: 2300mm
HEIGHT: 1500mm
TOTAL AREA: 3.5 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 38mm
RADII: 225mm
NO. Z BARS: 2
LENGTH: 2096.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARMED	1454	164	464	750

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or 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	X	I	T			EM 2000
593	264	324	114	222	783		924
	4	0	9				D 2000
265	364	341	255	1076			960

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

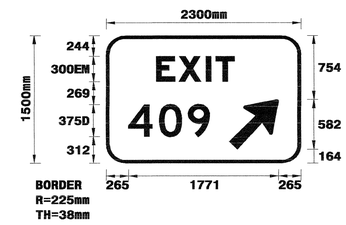
SIGN NUMBER: 206
TYPE: B
QUANTITY: 1
SIGN WIDTH: 2300mm
HEIGHT: 1500mm
TOTAL AREA: 3.5 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 38mm
RADII: 225mm
NO. Z BARS: 2
LENGTH: 2096.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARMED	1454	164	464	750

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or 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	X	I	T			EM 2000
593	264	324	114	222	783		924
	4	0	9				D 2000
265	364	341	255	1076			960

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

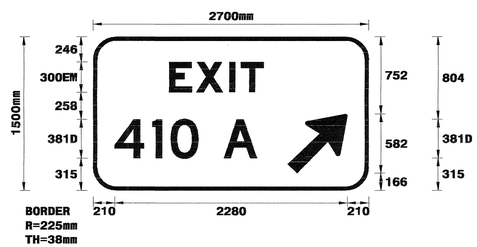
SIGN NUMBER: 201
TYPE: B
QUANTITY: 1
SIGN WIDTH: 2700mm
HEIGHT: 1500mm
TOTAL AREA: 4.1 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 38mm
RADII: 225mm
NO. Z BARS: 2
LENGTH: 2496.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARMED	1908	166	464	750

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or 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	X	I	T				EM 2000
745	264	324	114	222	1031			924
	4	1	0		A			D 2000
210	370	179	271	250	324	1097		1393

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

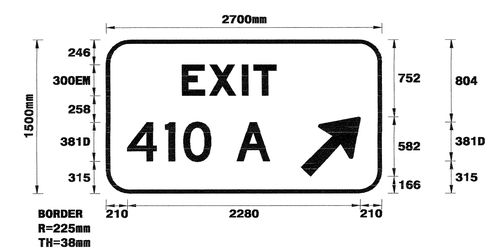
SIGN NUMBER: 202
TYPE: B
QUANTITY: 1
SIGN WIDTH: 2700mm
HEIGHT: 1500mm
TOTAL AREA: 4.1 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 38mm
RADII: 225mm
NO. Z BARS: 2
LENGTH: 2496.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARMED	1908	166	464	750

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or 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	X	I	T				EM 2000
745	264	324	114	222	1031			924
	4	1	0		A			D 2000
210	370	179	271	250	324	1097		1393

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

GROUND MOUNTED SIGN DESIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-24

METRIC

APPROVED: Ayman Alqudwah

DATE: 8/18/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

SIGN NUMBER: 204
TYPE: B
QUANTITY: 1
SIGN WIDTH: 2700mm
HEIGHT: 1500mm
TOTAL AREA: 4.1 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 36mm
RADII: 225mm
NO. Z BARS: 2
LENGTH: 2496.8

BACKG COLOR: Green
COPY COLOR: White

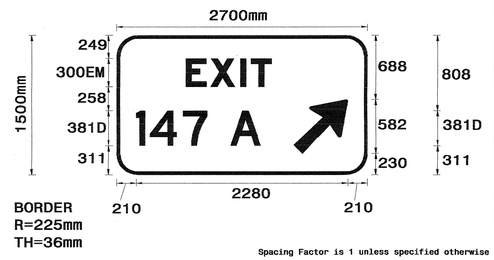
SYMBOL	X	Y	WID	HT
ARMED	1908	230	464	750

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																												Series/Size Text Length
		E	X	I	T																							EN 2000
	745	264	324	114	222	1031																						924
		1	4	7		A																						D 2000
	210	149	358	259	250	324	1150																					1340

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 203
TYPE: B
QUANTITY: 1
SIGN WIDTH: 2700mm
HEIGHT: 1500mm
TOTAL AREA: 4.1 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 36mm
RADII: 225mm
NO. Z BARS: 2
LENGTH: 2496.8

BACKG COLOR: Green
COPY COLOR: White

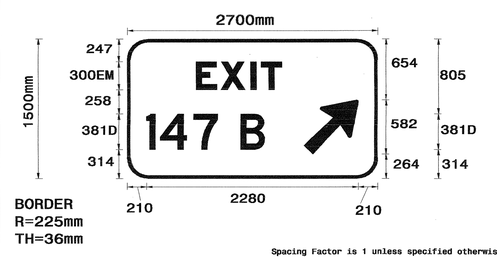
SYMBOL	X	Y	WID	HT
ARMED	1908	264	464	750

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																												Series/Size Text Length
		E	X	I	T																							EN 2000
	745	264	324	114	222	1031																						924
		1	4	7		B																						D 2000
	210	149	358	259	250	259	1215																					1275

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 302
TYPE: D
QUANTITY: 1
SIGN WIDTH: 2300mm
HEIGHT: 460mm
TOTAL AREA: 1.1 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 25mm
RADII: 75mm
NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

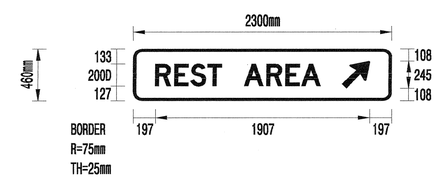
SYMBOL	X	Y	WID	HT
ARMED	1858	108	200	315

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																												Series/Size Text Length
		R	E	S	T		A	R	E	A																		D 2000
	197	170	144	152	124	200	200	170	140	170	633																	1470

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

GROUND MOUNTED SIGN DESIGNS

METRIC

TIP NO.	SHEET NO.
R-2301A	SIGN-25

APPROVED: Hyman I. Alqudah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER HYMAN I. ALQUDAH

SIGN NUMBER: 303
TYPE: D
QUANTITY: 1
SIGN WIDTH: 2300mm
HEIGHT: 460mm
TOTAL AREA: 1.1 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 25mm
RADII: 75mm
NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

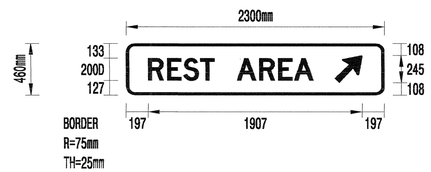
SYMBOL	X	Y	WID	HT
ARWED	1858	108	200	315

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

												Series/Size Text Length
		R	E	S	T		A	R	E	A		D 2000
	197	170	144	152	124	200	200	170	140	170	633	1470

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 304
TYPE: D
QUANTITY: 1
SIGN WIDTH: 1600mm
HEIGHT: 460mm
TOTAL AREA: 0.7 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 19mm
RADII: 75mm
NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

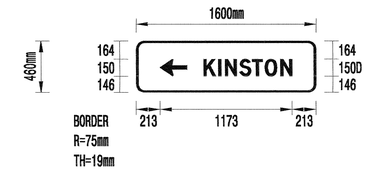
SYMBOL	X	Y	WID	HT
ARWED	213	146	150	236

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

											Series/Size Text Length
		K	I	N	S	T	O	N			D 2000
	601	130	60	127	114	112	140	102	213		786

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 108B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 3800mm
HEIGHT: 1700mm
TOTAL AREA: 6.5 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 2
LENGTH: 3596.8

BACKG COLOR: Green
COPY COLOR: White

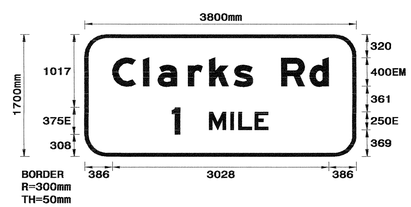
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

											Series/Size Text Length
		C	l	a	r	k	s		R	d	
	386	436	204	424	296	344	264	400	396	264	386	EM 2000 3028
		M	I	L	E							E 2000
	1744	300	110	230	188	1228						828
		1										E 2000
	1222	113	2466									113

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 108A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 2800mm
HEIGHT: 800mm
TOTAL AREA: 2.2 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm
NO. Z BARS: 2
LENGTH: 2596.8

BACKG COLOR: Green
COPY COLOR: White

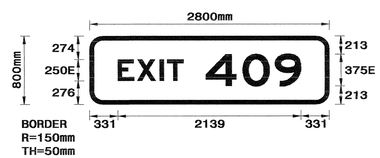
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

											Series/Size Text Length
		E	X	I	T						E 2000
	331	223	268	88	188	1704					765
		4	0	9							E 2000
	1359	428	379	304	331						1110

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

GROUND MOUNTED SIGN DESIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-26

APPROVED: Lyman Alquidwan

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER LYMAN I. ALQUIDWAN

SIGN NUMBER: 105B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 4800mm
HEIGHT: 1100mm
TOTAL AREA: 5.3 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 2
LENGTH: 4596.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARSHRT	3949	292	573	644

MAT'L: 0.125" (3.2 mm) ALUMINUM

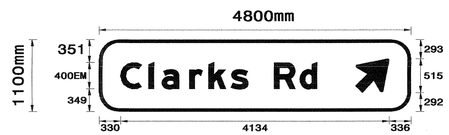
DESIGN BY: D. Pillar
PROJECT ID: R-2301A

CHECKED BY: D. M. Eaton
DIV: 2

DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



BORDER
R=300mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

												Series/Size	Text Length
		C	l	a	r	k	s		R	d			
	330	436	204	424	296	344	264	400	396	264	1442	EM 2000	3028

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 106B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 4800mm
HEIGHT: 1100mm
TOTAL AREA: 5.3 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 2
LENGTH: 4596.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARSHRT	3949	292	573	644

MAT'L: 0.125" (3.2 mm) ALUMINUM

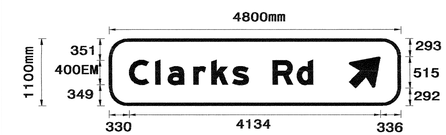
DESIGN BY: D. Pillar
PROJECT ID: R-2301A

CHECKED BY: D. M. Eaton
DIV: 2

DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



BORDER
R=300mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

												Series/Size	Text Length
		C	l	a	r	k	s		R	d			
	330	436	204	424	296	344	264	400	396	264	1442	EM 2000	3028

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 105A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 2800mm
HEIGHT: 800mm
TOTAL AREA: 2.2 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm
NO. Z BARS: 2
LENGTH: 2596.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

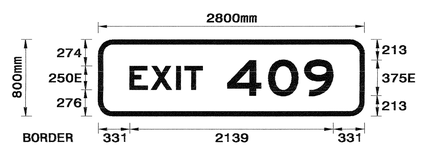
DESIGN BY: D. Pillar
PROJECT ID: R-2301A

CHECKED BY: D. M. Eaton
DIV: 2

DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



BORDER
R=150mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

								Series/Size	Text Length
		E	X	I	T				
	331	223	268	88	188	1704		E 2000	765
		4	0	9				E 2000	
	1359	428	379	304	331				1110

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 106A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 2800mm
HEIGHT: 800mm
TOTAL AREA: 2.2 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm
NO. Z BARS: 2
LENGTH: 2596.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A

CHECKED BY: D. M. Eaton
DIV: 2

DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

BORDER
R=150mm
TH=50mm

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

								Series/Size	Text Length
		E	X	I	T				
	331	223	268	88	188	1704		E 2000	765
		4	0	9				E 2000	
	1359	428	379	304	331				1110

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

GROUND MOUNTED SIGN DESIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-27

APPROVED: [signature]

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

SIGN NUMBER: 109
TYPE: B
QUANTITY: 1
SIGN WIDTH: 3100mm
HEIGHT: 500mm
TOTAL AREA: 1.55 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 25mm
RADII: 75mm
NO. Z BARS: 0
LENGTH: 2896.8

BACKG COLOR: Green
COPY COLOR: White

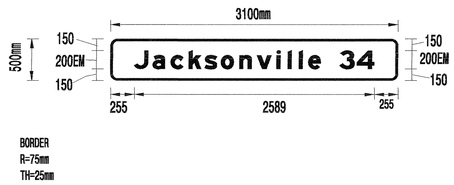
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A

CHECKED BY: D. M. Eaton
DIV: 2

DATE: Jul 01, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or 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
		J	a	c	k	s	o	n	v	i	l	l	e			
	255	202	194	194	172	176	198	190	212	120	120	102	132	833		EM 2000 2012
		3	4													
	2471	188	186	255												EM 2000 374

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 301
TYPE: D
QUANTITY: 1
SIGN WIDTH: 2800mm
HEIGHT: 500mm
TOTAL AREA: 1.4 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 25mm
RADII: 75mm
NO. Z BARS: 2
LENGTH: 2596.8

BACKG COLOR: Green
COPY COLOR: White

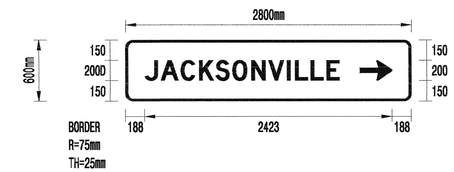
SYMBOL	X	Y	WID	HT
ARMED	2297	200	200	315

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A

CHECKED BY: D. M. Eaton
DIV: 2

DATE: Jul 01, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or 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
		J	A	C	K	S	O	N	V	I	L	L	E			
	188	158	196	180	160	166	186	166	182	80	154	154	124	706		D 2000 1906

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 107
TYPE: B
QUANTITY: 1
SIGN WIDTH: 3400mm
HEIGHT: 1100mm
TOTAL AREA: 3.7 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 25mm
RADII: 150mm
NO. Z BARS: 2
LENGTH: 3196.8

BACKG COLOR: Green
COPY COLOR: White

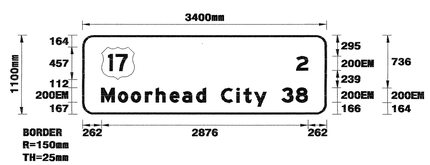
SYMBOL	X	Y	WID	
M1_4	263	479	457	457

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A

CHECKED BY: D. M. Eaton
DIV: 2

DATE: Jul 01, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2,3,4

1. Legend and border shall be direct applied 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
		2														
	2976	162	262													EM 2000 162
		M	o	o	r	h	e	a	d							
	262	236	180	198	148	194	176	194	132	1680						EM 2000 1458
		3	8													
	2773	202	162	263												EM 2000 364
		C	i	t	y											
	1930	218	100	146	170	836										EM 2000 634

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 101
TYPE: A
QUANTITY: 1
SIGN WIDTH: 3100mm
HEIGHT: 2600mm
TOTAL AREA: 8.1 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 3
LENGTH: 2896.8

BACKG COLOR: Green
COPY COLOR: White

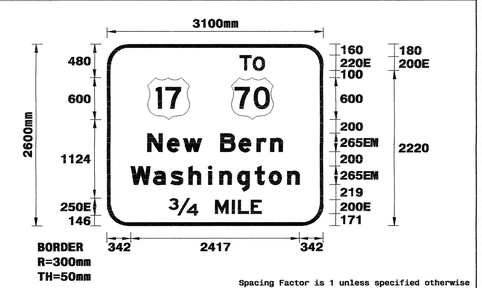
SYMBOL	X	Y	WID	HT
M1_4	581	1520	600	600
M1_4	1781	1520	600	600

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: DME
PROJECT ID: R-2301A

CHECKED BY: DME
DIV: 2

DATE: Jul 03, 2008



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,3,4

1. Legend and border shall be direct applied Grade C reflective sheeting.
2. Legend and border shall be direct applied non-reflective sheeting.
3. Shields shall be Grade C reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
4. Background shall be Grade C reflective sheeting.
5. Background shall be Type I reflective sheeting.
6. Center arrow(s) vertically on sign.

LETTER POSITIONS

Letter spacings are to start of next letter

																Series/Size Text Length
		T		O												
	1903	165	24	168	840											E 2000 357
		N	e	w		B	e	r	n							
	581	281	228	270	265	265	257	196	175	581						EM 2000 1937
		W	a	s	h	i	n	g	t	o	n					
	342	321	252	257	281	159	257	254	199	262	175	342				EM 2000 2417
		3/4		M	I	L	E									
	886	416	250	240	88	184	150	886								E 2000 1328

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

GROUND MOUNTED SIGN DESIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-28

METRIC

APPROVED: Ayman Alquduah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDUAH

SIGN NUMBER: 102
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	1100	1205	600	600
M1_4	2300	1205	600	600

SIGN WIDTH: 4000mm
HEIGHT: 2300mm
TOTAL AREA: 9.2 Sq.m

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

NO. Z BARS: 3
LENGTH: 3796.8

MAT'L: 0.125" (3.2 mm) ALUMINUM

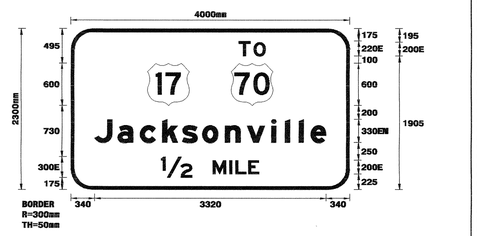
DESIGN BY: DME
PROJECT ID: R-2301A

CHECKED BY: DME
DIV: 2

DATE: Jul 03, 2008

USE NOTES: 1,3,4

1. Legend and border shall be direct applied Grade C reflective sheeting.
2. Legend and border shall be direct applied non-reflective sheeting.
3. Shields shall be Grade C reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
4. Background shall be Grade C reflective sheeting.
5. Background shall be Type I reflective sheeting.
6. Center arrow(s) vertically on sign.
7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																Series/Size Text Length
		T		O												E 2000
	2409	165	49	168	1209											382
		J	a	c	k	s	o	n	v	i	l	l	e			EM 2000
	340	333	320	320	284	290	327	313	350	198	198	168	218	340		3320
		1/2		M	I	L	E									E 2000
	1299	440	300	240	88	184	150	1299								1402

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 103
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	2186	2391	900	900

SIGN WIDTH: 5300mm
HEIGHT: 3600mm
TOTAL AREA: 19.1 Sq.m

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

NO. Z BARS: 3
LENGTH: 5096.8

MAT'L: 0.125" (3.2 mm) ALUMINUM

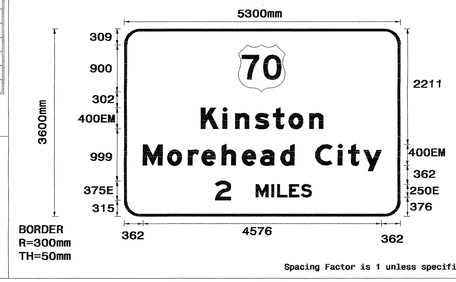
DESIGN BY: D. Pillar
PROJECT ID: R-2301A

CHECKED BY: D. M. Eaton
DIV: 2

DATE: Jul 01, 2008

USE NOTES: 1,2,3,4

1. Legend and border shall be direct applied 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:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																Series/Size Text Length
		K	i	n	s	t	o	n								EM 2000
	1477	416	240	380	348	300	396	264	1479							2344
		N	o	r	e	h	e	a	d		C	i	t	y		EM 2000
	362	472	396	260	388	388	352	388	264	400	436	200	292	340	362	4576
		N	I	L	E	S										E 2000
	2532	300	110	230	223	203	1703									1065
		2														E 2000
	1746	304	3250													304

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 104
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	2186	2380	900	900

SIGN WIDTH: 5300mm
HEIGHT: 3600mm
TOTAL AREA: 19.1 Sq.m

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

NO. Z BARS: 3
LENGTH: 5096.8

MAT'L: 0.125" (3.2 mm) ALUMINUM

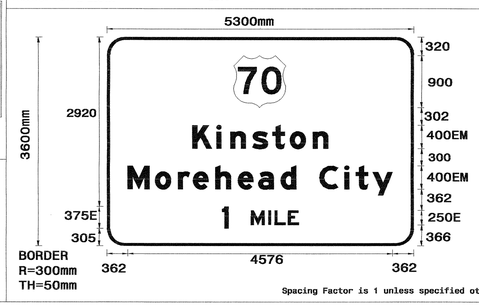
DESIGN BY: D. Pillar
PROJECT ID: R-2301A

CHECKED BY: D. M. Eaton
DIV: 2

DATE: Jul 01, 2008

USE NOTES: 1,2,3,4

1. Legend and border shall be direct applied 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:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																Series/Size Text Length
		K	i	n	s	t	o	n								EM 2000
	1477	416	240	380	348	300	396	264	1479							2344
		N	o	r	e	h	e	a	d		C	i	t	y		EM 2000
	362	472	396	260	388	388	352	388	264	400	436	200	292	340	362	4576
		N	I	L	E											E 2000
	2488	300	110	230	188	1984										828
		1														E 2000
	1987	113	3201													113

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 601
TYPE: OVERLAY
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 1925mm
HEIGHT: 340mm
TOTAL AREA: 0.7 Sq.m

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

NO. Z BARS:
LENGTH:

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A

CHECKED BY: D. M. Eaton
DIV: 2

DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																Series/Size Text Length
		B	U	S	I	N	E	S	S							E 2000
	49	257	257	257	112	272	226	241	206	49						1826

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

GROUND MOUNTED SIGN DESIGNS

METRIC

TIP NO.	SHEET NO.
R-2301A	SIGN-29

APPROVED: Ayman Alquduwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

SIGN NUMBER: 602
TYPE: OVERLAY
QUANTITY: 1
SIGN WIDTH: 1925mm
HEIGHT: 340mm
TOTAL AREA: 0.7 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 0mm
RADII: 0mm
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: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

												Series/Size Text Length
	B	U	S	I	N	E	S	S				E 2000
49	257	257	257	112	272	226	241	206	49			1826

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 604
TYPE: OVERLAY
QUANTITY: 1
SIGN WIDTH: 1925mm
HEIGHT: 340mm
TOTAL AREA: 0.7 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 0mm
RADII: 0mm
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: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

												Series/Size Text Length
	B	U	S	I	N	E	S	S				E 2000
49	257	257	257	112	272	226	241	206	49			1826

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 603
TYPE: OVERLAY
QUANTITY: 1
SIGN WIDTH: 1925mm
HEIGHT: 340mm
TOTAL AREA: 0.7 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 0mm
RADII: 0mm
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: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

												Series/Size Text Length
	B	U	S	I	N	E	S	S				E 2000
49	257	257	257	112	272	226	241	206	49			1826

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 1108
TYPE: A
QUANTITY: 1
SIGN WIDTH: 4800mm
HEIGHT: 2900mm
TOTAL AREA: 13.9 Sq.m
BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 300mm
NO. Z BARS: 3
LENGTH: 4596.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	915	1631	900	900

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. Pillar
PROJECT ID: R-2301A
CHECKED BY: D. M. Eaton
DIV: 2
DATE: Jul 01, 2008

USE NOTES: 1,2,3,4

1. Legend and border shall be direct applied 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:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																																Series/Size Text Length
		S		O	U	T	H																									E 2000
2212	304	60	321	294	276	243	1090																									1498
	J	a	c	k	s	o	n	v	i	l	l	e																				EM 2000
388	404	388	388	344	352	396	380	424	240	240	204	264	388																			4024
	M	I	L	E																												E 2000
2487	300	110	230	188	1486																											628
	3/4																															E 2000
1476	624	2700																														624

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

GROUND MOUNTED SIGN DESIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-30

APPROVED: Ayman Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

SIGN NUMBER: 110A
TYPE: B
QUANTITY: 1

SIGN WIDTH: 3300mm
HEIGHT: 800mm
TOTAL AREA: 2.6 Sq.m

BORDER TYPE: FLUSH
RECESS: 0mm
WIDTH: 50mm
RADII: 150mm

NO. Z BARS: 2
LENGTH: 3096.8

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

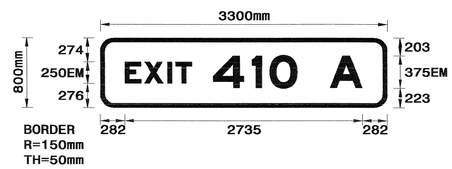
DESIGN BY: D. Pillar
PROJECT ID: R-2301A

CHECKED BY: D. M. Eaton
DIV: 2

DATE: Jul 01, 2008

USE NOTES: 1,2

1. Legend and border shall be direct applied 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 A, B, or C sheeting.
5. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

								Series/Size Text Length
	E	X	I	T				EM 2000
282	220	270	95	185	2248			770
	4	1	0		A			EM 2000
1300	446	203	315	375	379	282		1718

FILENAME: 2301aSigns_metric

NORTH CAROLINA D.O.T. SIGN DETAIL

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

GROUND MOUNTED SIGN DESIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-31

METRIC

APPROVED: Lyman Alquadwan

DATE: 9/2/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER LYMAN I. ALQUDWAN

(401) QUANTITY REQ'D 2

914 X 1219
R2-1

TWO WOOD POSTS PER SIGN

(402) QUANTITY REQ'D 3

1200 X 1500
R2-1

TWO WOOD POSTS PER SIGN

(403) QUANTITY REQ'D 2

914 X 1219
W13-2

TWO WOOD POSTS PER SIGN

(404) QUANTITY REQ'D 4

762 X 762
R1-1

ONE WOOD POST PER SIGN

(405) QUANTITY REQ'D 2

610 X 610
R3-2

MOUNT BELOW SIGN 404
IN 2 INSTALLATIONS

(406) QUANTITY REQ'D 5

762 X 762
R5-1

ONE WOOD POST PER SIGN

(407) QUANTITY REQ'D 2

1372 X 457
R6-1 (R)

TWO WOOD POSTS PER SIGN

(408) QUANTITY REQ'D 5

914 X 1219
R4-7

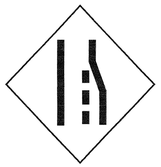
TWO WOOD POSTS PER SIGN

(409) QUANTITY REQ'D 12

457 X 457
W23-15

A) MOUNT ABOVE SIGN 427
IN 4 INSTALLATIONS
B) MOUNT ABOVE SIGN 428
IN 4 INSTALLATIONS
C) MOUNT ABOVE SIGN 429
IN 4 INSTALLATIONS
ORANGE REFLECTIVE SHEETING

(410) QUANTITY REQ'D 2



1219 X 1219
W19-10(R)

TWO WOOD POSTS PER SIGN

(411) QUANTITY REQ'D 2

914 X 914
W6-2

ONE WOOD POST PER SIGN

(412) QUANTITY REQ'D 2

914 X 914
W1-2L

ONE WOOD POST PER SIGN

(413) QUANTITY REQ'D 2

914 X 914
W1-2R

ONE WOOD POST PER SIGN

(414) QUANTITY REQ'D 8

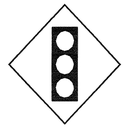
914 X 610
R5-1a

(415) QUANTITY REQ'D 3

610 X 762
R4-1

ONE WOOD POST PER SIGN

(416) QUANTITY REQ'D 3



914 X 914
W3-3

ONE WOOD POST PER SIGN

(417) QUANTITY REQ'D 1

914 X 914
W6-3

ONE WOOD POST PER SIGN

(418) QUANTITY REQ'D 1

762 X 914
R3-5 (R)

ONE WOOD POST PER SIGN

(419) QUANTITY REQ'D 2

914 X 914
W9-2(R)

TWO WOOD POSTS PER SIGN

(420) QUANTITY REQ'D 1

914 X 914
W2-2

ONE WOOD POST PER SIGN

(421) QUANTITY REQ'D 1

914 X 914
W2-2

ONE WOOD POST PER SIGN

(422) QUANTITY REQ'D 2

1219 X 1219
W4-1 (R)

TWO WOOD POSTS PER SIGN

(423) QUANTITY REQ'D 1

610 X 762

ONE WOOD POST PER SIGN

(424) QUANTITY REQ'D 1

1372 X 457
R6-1 (L)

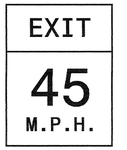
TWO WOOD POSTS PER SIGN

(425) QUANTITY REQ'D 5

1200 X 1500
R2-1

TWO WOOD POSTS PER SIGN

(426) QUANTITY REQ'D 3



914 X 1219
W13-2

TWO WOOD POSTS PER SIGN

(427) QUANTITY REQ'D 2

1219 X 1219
W3-5

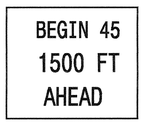
TWO WOOD POSTS PER SIGN

(428) QUANTITY REQ'D 4

914 X 1219
R2-1

TWO WOOD POSTS PER SIGN

(429) QUANTITY REQ'D 2



1219 X 914
R2-80

ONE WOOD POST PER SIGN

(430) QUANTITY REQ'D 5

457 X 457
W23-15

MOUNT BELOW SIGN 408
IN 5 INSTALLATIONS

YELLOW REFLECTIVE SHEETING

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

TYPE "E" SIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-32

METRIC

APPROVED: [signature]

DATE: 7/16/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

501 506

SOUTH 1-600 X 300
17 1-900 X 900

ONE WOOD POST PER SIGN

507 509

WEST 1-600 X 300
70 1-900 X 900

ONE WOOD POST PER SIGN

514

SOUTH 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600
1-525 X 375
NORTH EAST 2-600 X 300
17 70 2-600 X 600
2-525 X 375

TWO WOOD POSTS PER SIGN

520

SOUTH 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600
1-525 X 375

ONE WOOD POST PER SIGN

526

NORTH 1-600 X 300
17 1-600 X 600
1-525 X 375

ONE WOOD POST PER SIGN

531

END 1-600 X 300
43 1-600 X 600
NORTH SOUTH 2-600 X 300
BUSINESS BUSINESS 2-600 X 300
17 17 2-600 X 600
2-525 X 375

TWO WOOD POSTS PER SIGN

502

NORTH 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600

ONE WOOD POST PER SIGN

508 510

EAST 1-600 X 300
70 1-900 X 900

ONE WOOD POST PER SIGN

515

NORTH EAST 2-600 X 300
17 70 2-600 X 600
2-525 X 375

TWO WOOD POSTS PER SIGN

521

WEST 1-600 X 300
70 1-600 X 600
1-525 X 375

ONE WOOD POST PER SIGN
MOUNT BELOW SIGN #304

527

NORTH 1-600 X 300
17 1-600 X 600
RIGHT LANE 1-600 X 300

ONE WOOD POST PER SIGN

532 535

NORTH 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600

ONE WOOD POST PER SIGN

503

NORTH 1-600 X 300
BUSINESS SOUTH 2-600 X 300
17 17 2-600 X 600
2-525 X 375

TWO WOOD POSTS PER SIGN

511

JCT JCT 2-600 X 300
17 70 2-600 X 600

TWO WOOD POSTS PER SIGN

516

NORTH 1-600 X 300
17 1-600 X 600
1-525 X 375
EAST SOUTH 2-600 X 300
BUSINESS BUSINESS 2-600 X 300
70 17 2-600 X 600
2-525 X 375

TWO WOOD POSTS PER SIGN

522

EAST 1-600 X 300
WEST BUSINESS 2-600 X 300
70 70 2-600 X 600
2-525 X 375

TWO WOOD POSTS PER SIGN

528

SOUTH 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600
1-525 X 375

ONE WOOD POST PER SIGN

533

NORTH 1-600 X 300
43 1-600 X 600
1-525 X 375
SOUTH NORTH 2-600 X 300
BUSINESS BUSINESS 2-600 X 300
17 17 2-600 X 600
2-525 X 375

TWO WOOD POSTS PER SIGN

537

END 1-600 X 300
SOUTH 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600

ONE WOOD POST PER SIGN

504

JCT 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600

ONE WOOD POST PER SIGN

512

SOUTH 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600
1-525 X 375
EAST WEST 2-600 X 300
70 70 2-600 X 600
2-525 X 375

TWO WOOD POSTS PER SIGN

518

SOUTH END 2-600 X 300
BUSINESS BUSINESS 2-600 X 300
17 70 2-600 X 600

TWO WOOD POSTS PER SIGN

523

NORTH 1-600 X 300
17 1-600 X 600
1-525 X 375

ONE WOOD POST PER SIGN

529

JCT 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600

ONE WOOD POST PER SIGN

534

JCT 1-600 X 300
JCT BUSINESS 2-600 X 300
43 17 2-600 X 600

TWO WOOD POSTS PER SIGN

538

SOUTH 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600
1-525 X 375

ONE WOOD POST PER SIGN

505

NORTH 1-600 X 300
17 1-600 X 600

ONE WOOD POST PER SIGN

513

SOUTH 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600
2-525 X 375

ONE WOOD POST PER SIGN

519

NORTH 1-600 X 300
17 1-600 X 300
1-525 X 375
EAST SOUTH 2-600 X 300
BUSINESS BUSINESS 2-600 X 300
70 17 2-600 X 600
2-525 X 375

TWO WOOD POSTS PER SIGN

525

WEST 2-600 X 300
70 2-600 X 600
2-525 X 375
EAST NORTH 2-600 X 300
70 17 2-600 X 600
2-525 X 375

TWO WOOD POSTS PER SIGN

530

SOUTH 1-600 X 300
BUSINESS 1-600 X 300
17 1-600 X 600

ONE WOOD POST PER SIGN

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

TYPE "F" SIGNS

TIP NO.	SHEET NO.
R-2301A	SIGN-33

METRIC

APPROVED: Ayman Alquduah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

539 NORTH BUSINESS 17 SOUTH 17

TWO WOOD POSTS PER SIGN

QUANTITY REQ'D 2

MILE 409

1- 300 X 1200
D10-3

ONE "U" POST

QUANTITY REQ'D 2

MILE 410

1- 300 X 1200
D10-3

ONE "U" POST

QUANTITY REQ'D 1

NORTH 17 MILE 145

1- 450 X 1350
D10-4

ONE "U" POST

QUANTITY REQ'D 1

SOUTH 17 MILE 145

1- 450 X 1350
D10-4

ONE "U" POST

540 541 BUSINESS

QUANTITY REQ'D 1

NORTH 17 MILE 147

1- 450 X 1350
D10-4

ONE "U" POST

QUANTITY REQ'D 1

SOUTH 17 MILE 147

1- 450 X 1350
D10-4

ONE "U" POST

QUANTITY REQ'D 1

NORTH 17 MILE 144 .5

1- 450 X 1500
D10-5

ONE "U" POST

QUANTITY REQ'D 1

SOUTH 17 MILE 144 .5

1- 450 X 1500
D10-5

ONE "U" POST

QUANTITY REQ'D 1

NORTH 17 MILE 147 .5

1- 450 X 1500
D10-5

ONE "U" POST

QUANTITY REQ'D 1

SOUTH 17 MILE 147 .5

1- 450 X 1500
D10-5

ONE "U" POST

QUANTITY REQ'D 1

NORTH 17 MILE 146 .5

1- 450 X 1500
D10-5

ONE "U" POST

QUANTITY REQ'D 1

SOUTH 17 MILE 146 .5

1- 450 X 1500
D10-5

ONE "U" POST

QUANTITY REQ'D 1

NORTH 17 MILE 144

1- 450 X 1350
D10-4

ONE "U" POST

QUANTITY REQ'D 1

SOUTH 17 MILE 144

1- 450 X 1350
D10-4

ONE "U" POST

QUANTITY REQ'D 1

NORTH 17 MILE 148

1- 450 X 1350
D10-4

ONE "U" POST

QUANTITY REQ'D 1

SOUTH 17 MILE 148

1- 450 X 1350
D10-4

ONE "U" POST

QUANTITY REQ'D 1

NORTH 17 MILE 146

1- 450 X 1350
D10-4

ONE "U" POST

QUANTITY REQ'D 1

SOUTH 17 MILE 146

1- 450 X 1350
D10-4

ONE "U" POST

QUANTITY REQ'D 1

NORTH 17 MILE 143 .5

1- 450 X 1500
D10-5

ONE "U" POST

QUANTITY REQ'D 1

SOUTH 17 MILE 143 .5

1- 450 X 1500
D10-5

ONE "U" POST

QUANTITY REQ'D 1

NORTH 17 MILE 145 .5

1- 450 X 1500
D10-5

ONE "U" POST

QUANTITY REQ'D 1

SOUTH 17 MILE 145 .5

1- 450 X 1500
D10-5

ONE "U" POST

QUANTITY REQ'D 1

NORTH 17 MILE 143

1- 450 X 1350
D10-4

ONE "U" POST

QUANTITY REQ'D 1

SOUTH 17 MILE 143

1- 450 X 1350
D10-4

ONE "U" POST

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

TYPE "F" SIGNS

METRIC

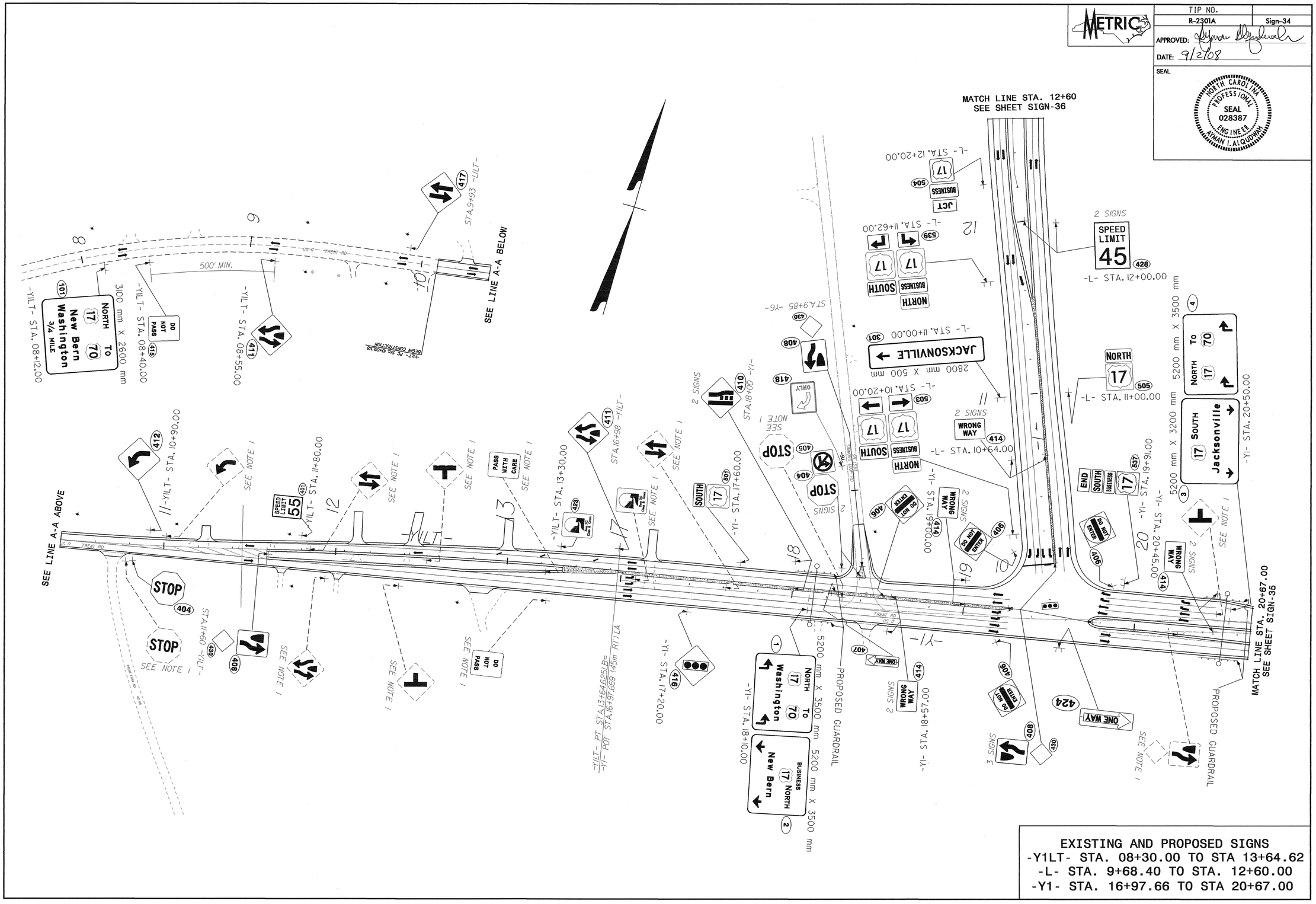
TIP NO.	
R-2301A	Sign-34

APPROVED: Ayman Alqudwah

DATE: 9/2/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



EXISTING AND PROPOSED SIGNS
-Y1LT- STA. 08+30.00 TO STA 13+64.62
-L- STA. 9+68.40 TO STA. 12+60.00
-Y1- STA. 16+97.66 TO STA 20+67.00

METRIC

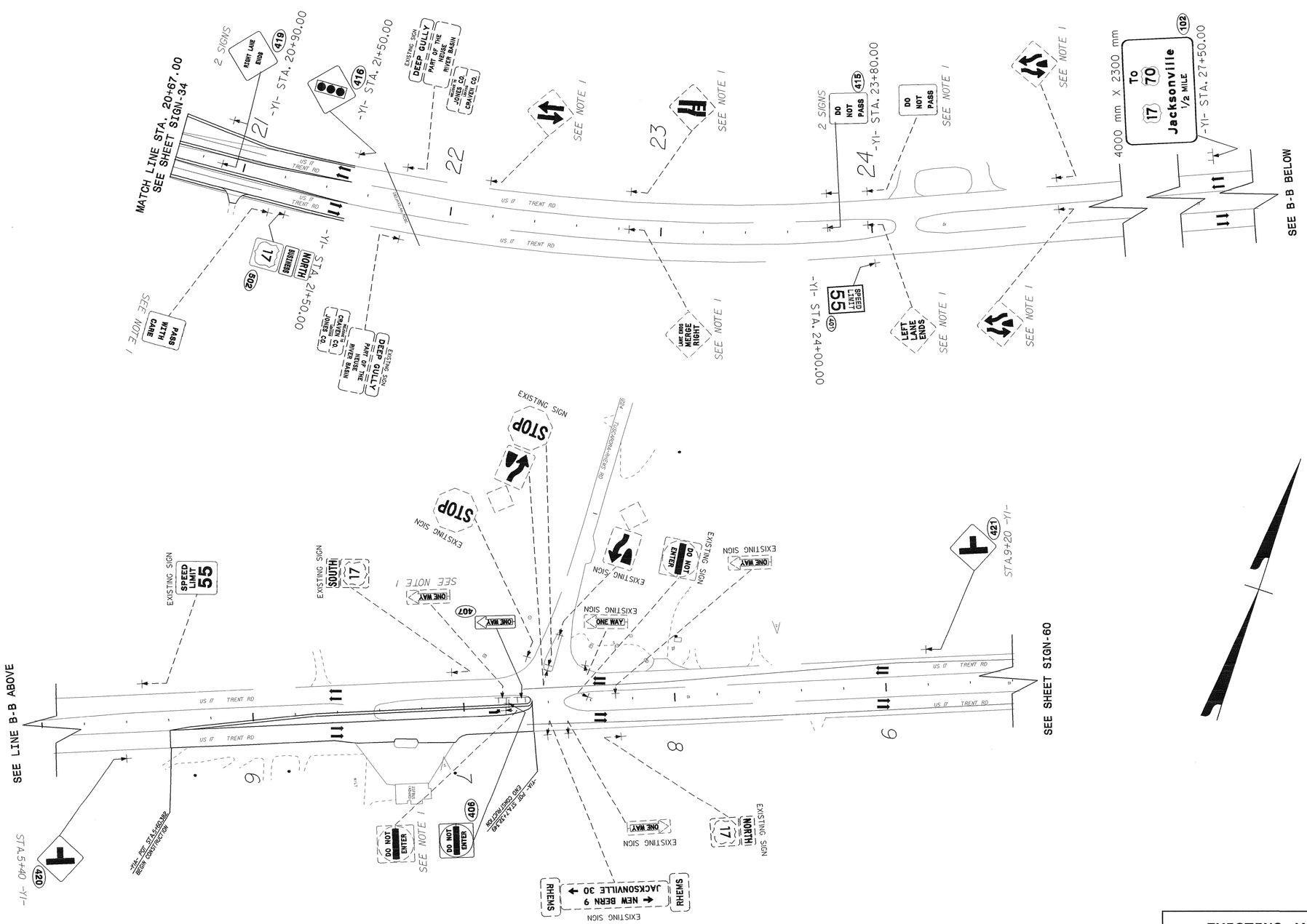
TIP NO.	
R-2301A	Sign-35

APPROVED: Aiman L. Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AIMAN I. ALQUDWAH



EXISTING AND PROPOSED SIGNS
-Y1- STA. 20+67.00 TO 27+60.00
-Y1A- STA. 05+00.00 TO 09+60.00

METRIC

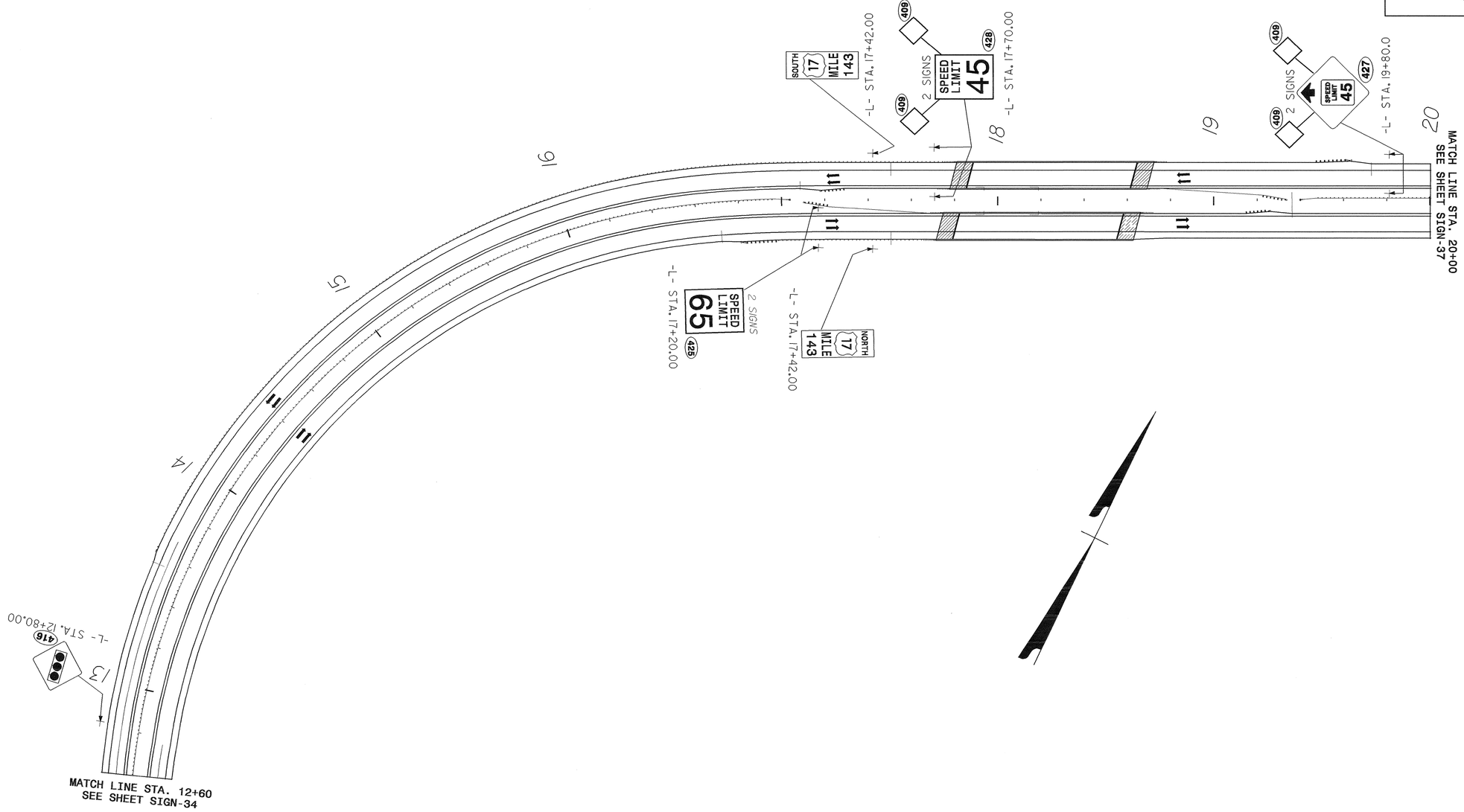
TIP NO.	
R-2301A	Sign-36

APPROVED: Ayman Aloudwan

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAN



PROPOSED SIGNS
-L- STA. 12+60.00 TO STA. 20+00.00

METRIC

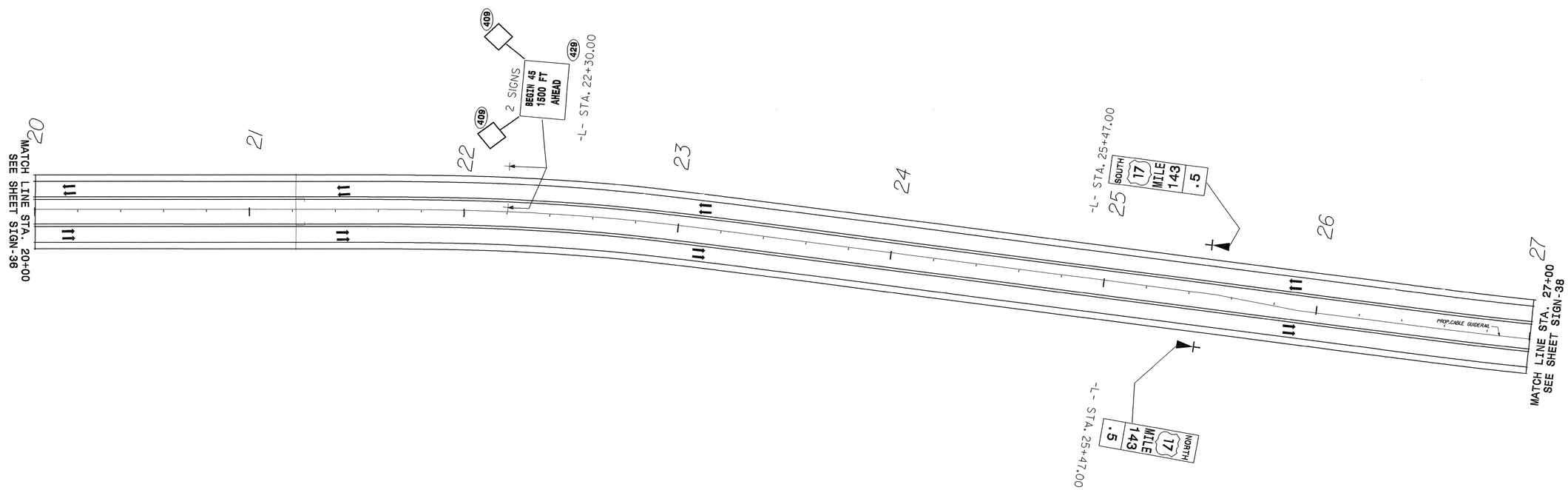
TIP NO.	
R-2301A	Sign-37

APPROVED: Ayman Alqudwah

DATE: 7/16/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PROPOSED SIGNS
-L- STA. 20+00.00 TO 27+00.00

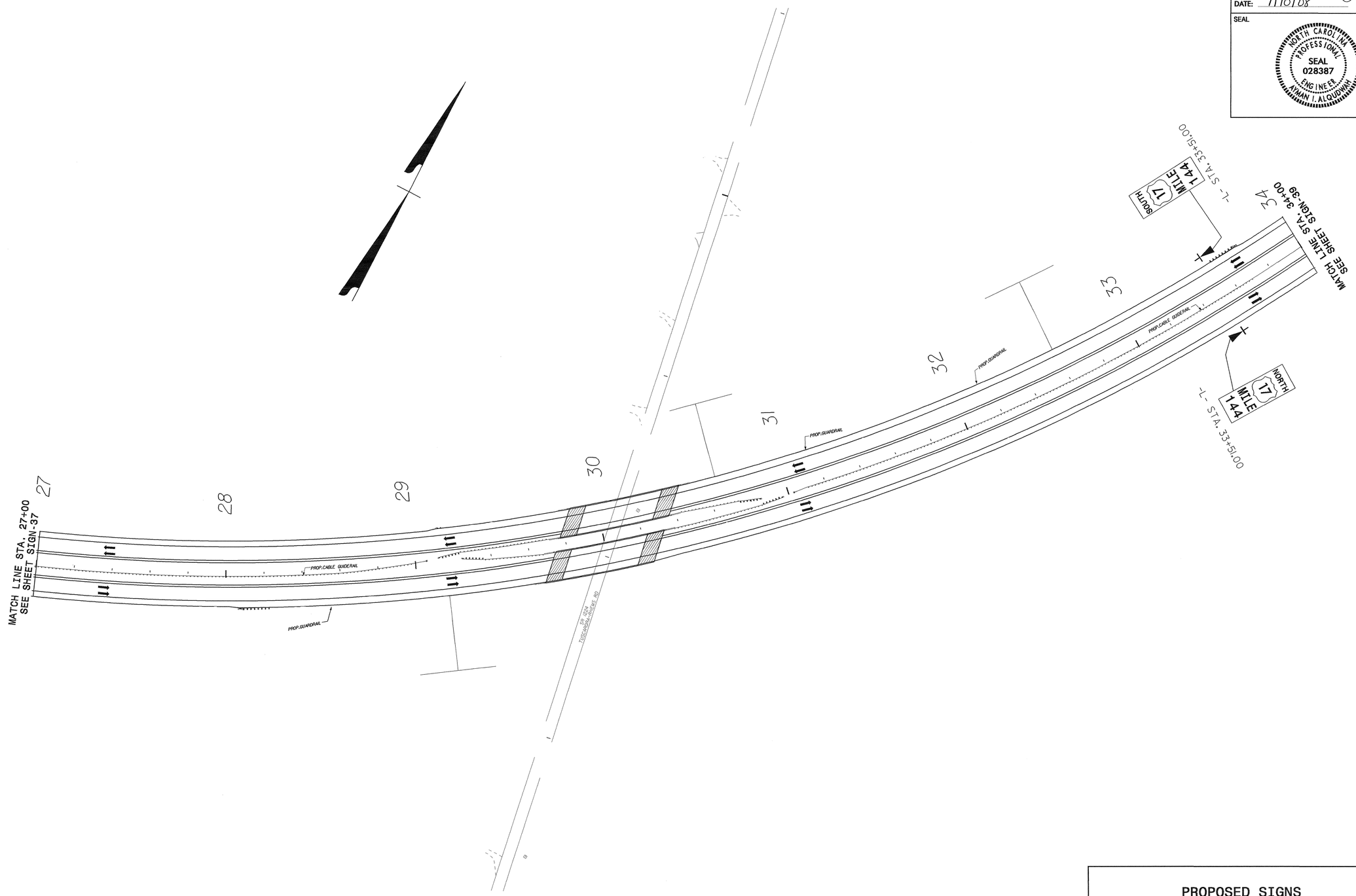
TIP NO.	
R-2301A	Sign-38

APPROVED: Ayman Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PROPOSED SIGNS
-L- STA. 27+00.00 + 34+00.00

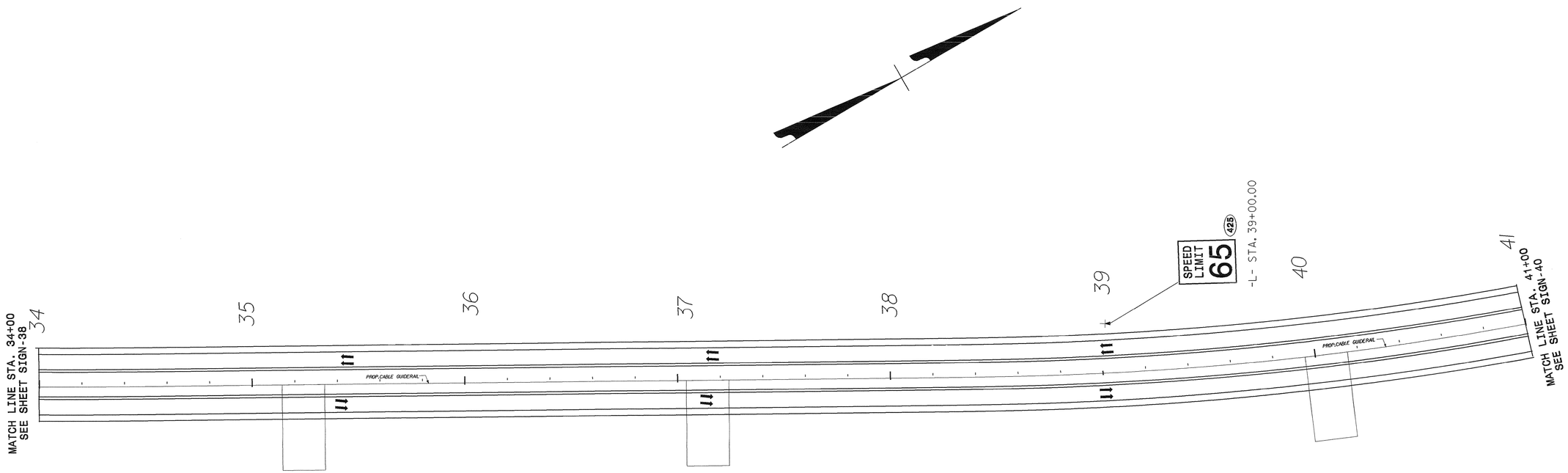
TIP NO.	
R-2301A	Sign-39

APPROVED: Ayman Alquduwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDUWAH



PROPOSED SIGNS
-L- STA. 34+00.00 TO 41+00.00

09-JUL-2008 12:42
R:\Traffic\Signing\CADD\Signing Layout Plans\Sheets\6.dgn

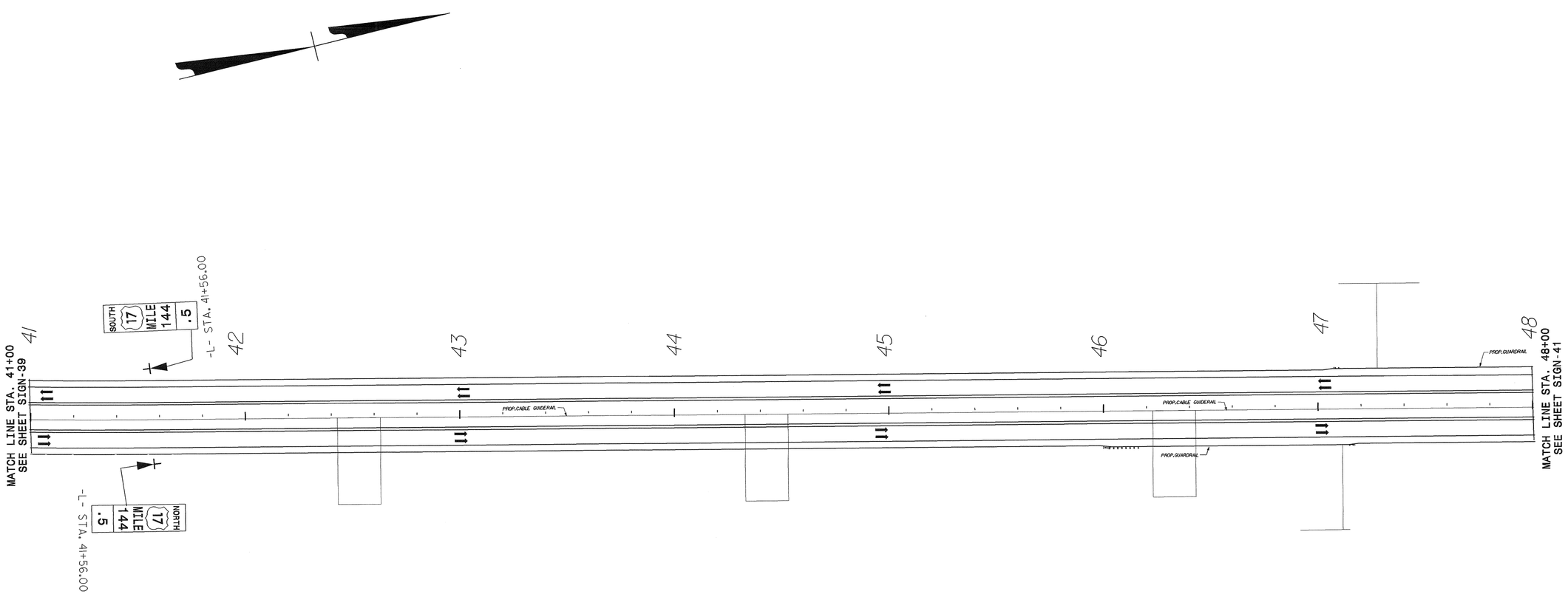
TIP NO.	
R-2301A	Sign-40

APPROVED: Ayman Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PROPOSED SIGNS
-L- STA. 41+00.00 TO 48+00.00

METRIC

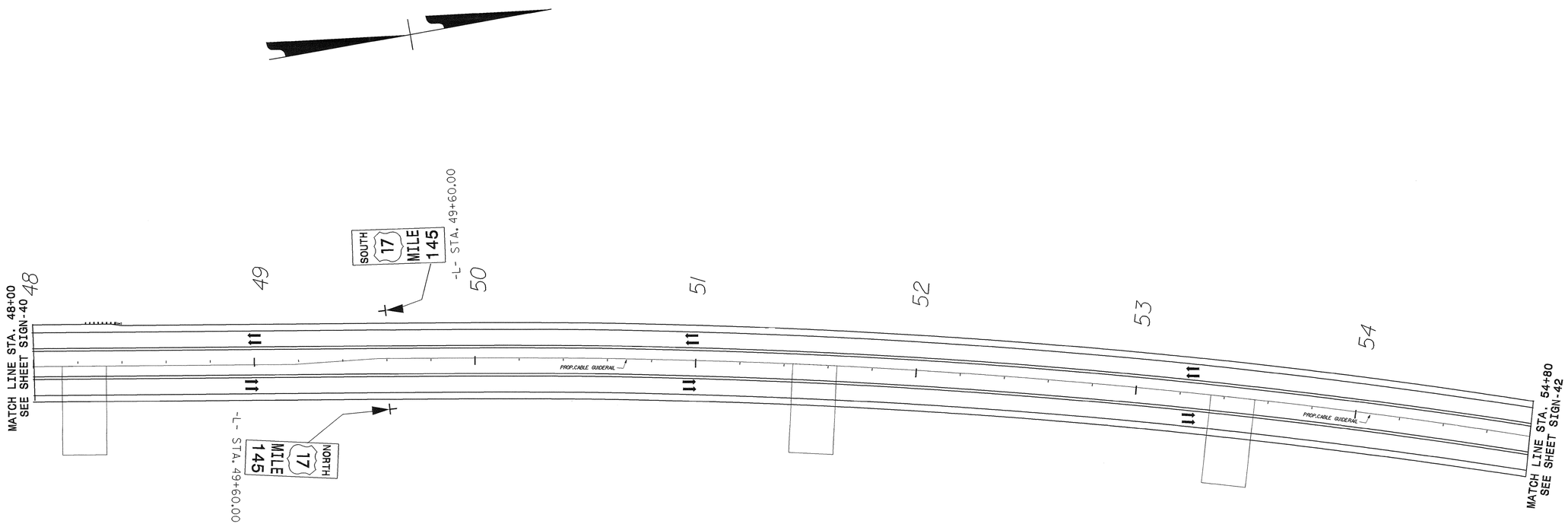
TIP NO.	
R-2301A	Sign-41

APPROVED: Ayman I. Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PROPOSED SIGNS
-L- STA. 48+00.00 TO 54+80.00

METRIC

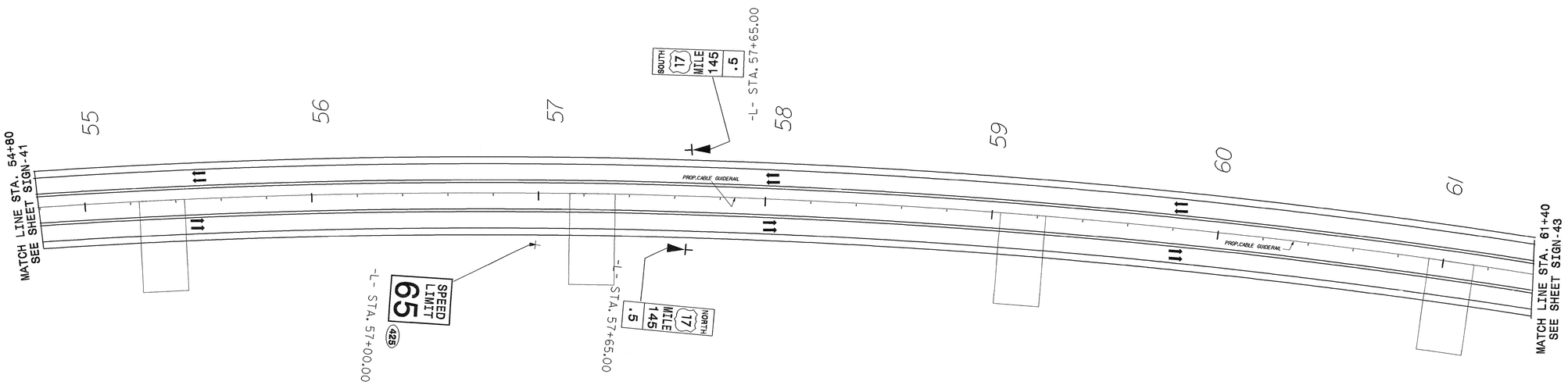
TIP NO.	
R-2301A	Sign-42

APPROVED: Ayman Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PROPOSED SIGNS
-L- STA. 54+80.00 TO 61+40.00

TIP NO.	
R-2301A	Sign-43

APPROVED: Ayman I. Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

METRIC

PROPOSED SIGNS
-L- STA. 61+40.00 TO 68+00.00

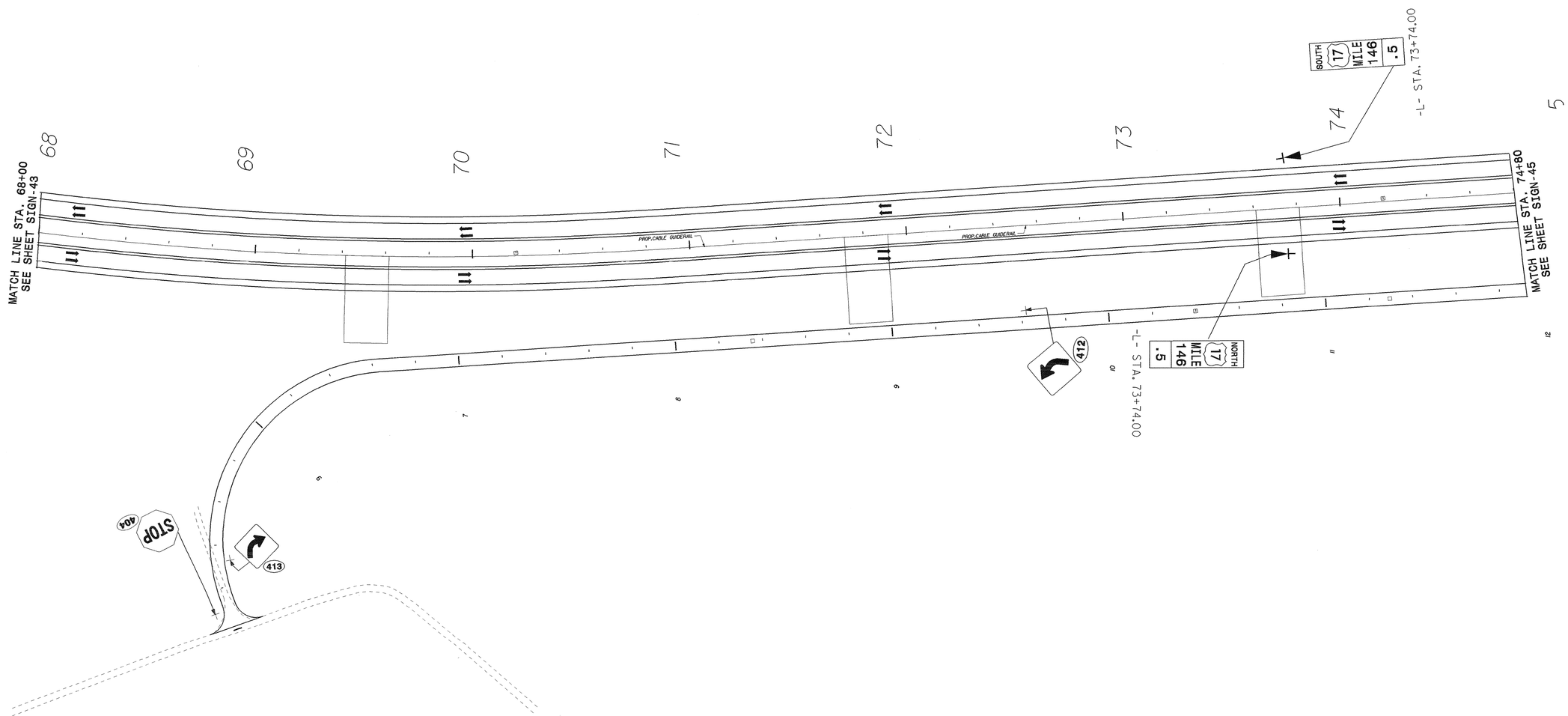
TIP NO.	
R-2301A	Sign-44

APPROVED: Ayman I. Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PROPOSED SIGNS
-L- STA. 68+00.00 TO 74+80.00

09-JUL-2008 12:57
R:\Traffic\Projects\R2301A\Traffic\Signing\CADD\Signing Layout Plans\Sheets\11.dgn
Bowler at TE2120

TIP NO.	
R-2301A	Sign-45

APPROVED: Lyman Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

PROPOSED SIGNS
-L- STA. 74+80.00 TO 81+60.00

METRIC

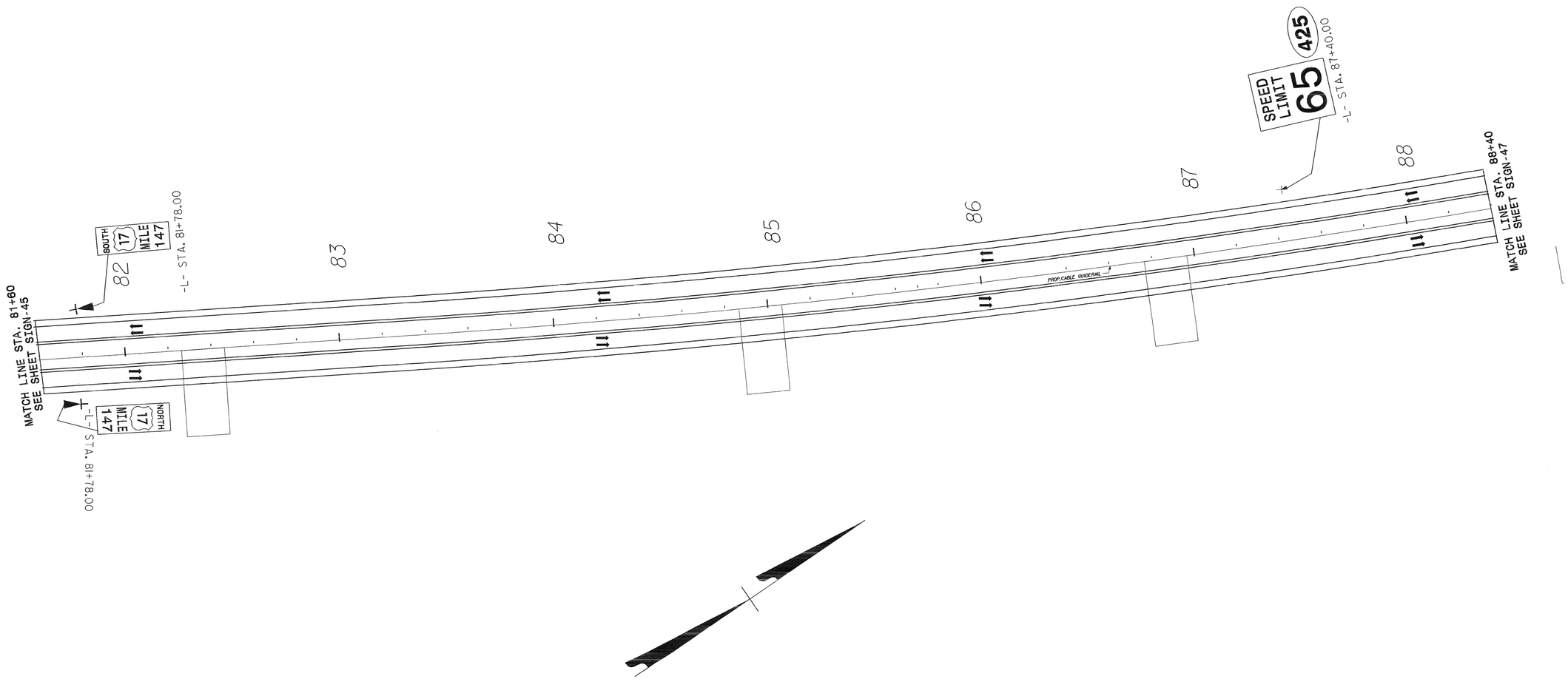
TIP NO.	
R-2301A	Sign-46

APPROVED: Ayman Alquduwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDUWAH



PROPOSED SIGNS
-L- STA. 81+60.00 TO 88+40.00

TIP NO.	
R-2301A	Sign-47

APPROVED: Ayman I. Alqudwah

DATE: 7/16/08

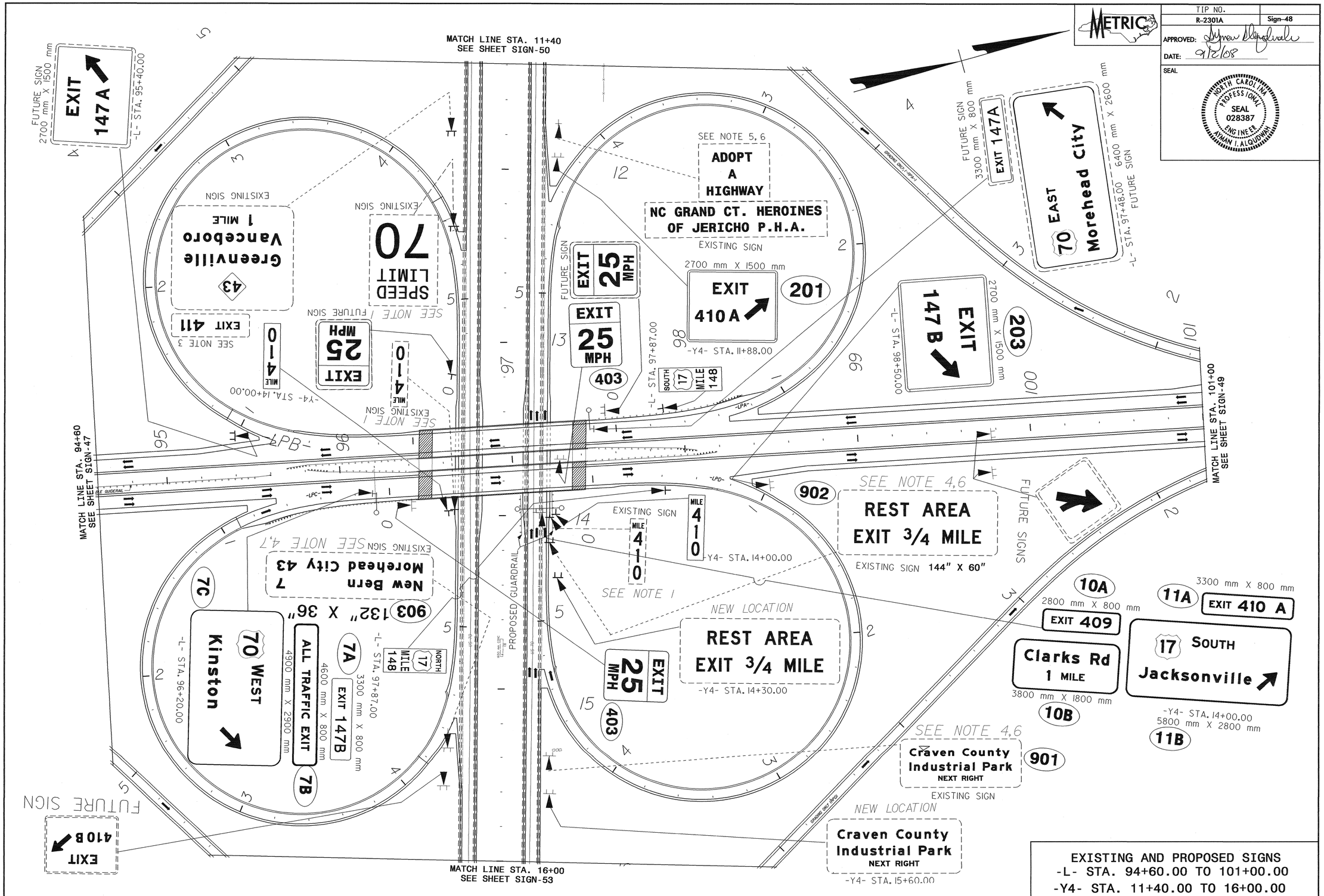
SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

METRIC

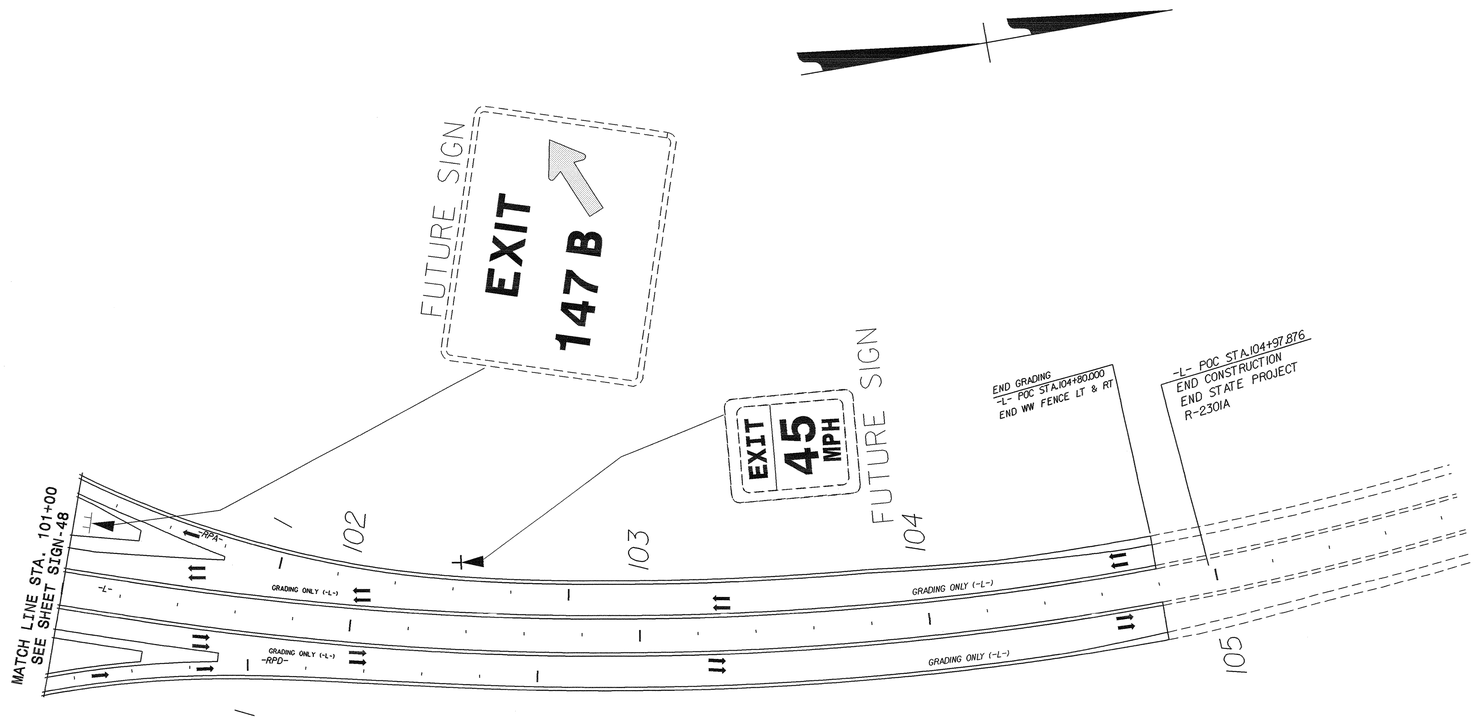
PROPOSED SIGNS
-L- STA. 88+40.00 TO 94+60.00

TIP NO.	
R-2301A	Sign-48
APPROVED:	
DATE: 9/2/08	
SEAL	

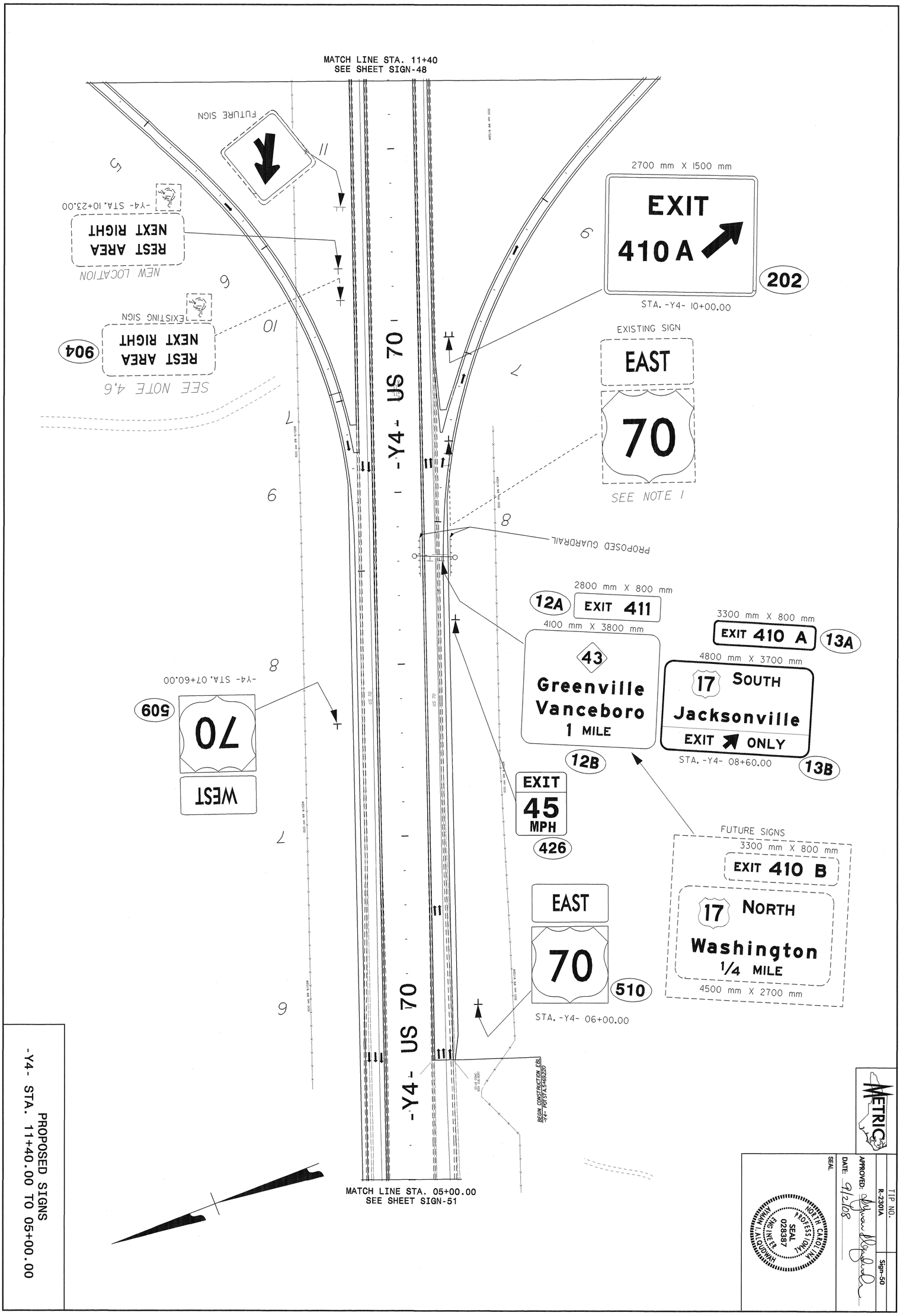


EXISTING AND PROPOSED SIGNS
-L- STA. 94+60.00 TO 101+00.00
-Y4- STA. 11+40.00 TO 16+00.00

METRIC	TIP NO.	
	R-2301A	Sign-49
APPROVED:		
DATE: 7/10/08		
SEAL		



PROPOSED SIGNS
-L- STA. 101+00.00 TO 105+00.00


MATCH LINE STA. 11+40
SEE SHEET SIGN-48
FUTURE SIGN
-Y4- STA. 10+23.00
REST AREA
NEXT RIGHT
NEW LOCATION
EXISTING SIGN
REST AREA
NEXT RIGHT
904
SEE NOTE 4,6
2700 mm X 1500 mm
EXIT
410 A
202
STA. -Y4- 10+00.00
EXISTING SIGN
EAST
70
SEE NOTE 1
-Y4- US 70
PROPOSED GUARDRAIL
2800 mm X 800 mm
12A
EXIT 411
4100 mm X 3800 mm
43
Greenville
Vanceboro
1 MILE
12B
3300 mm X 800 mm
EXIT 410 A
13A
4800 mm X 3700 mm
17 SOUTH
Jacksonville
EXIT ONLY
STA. -Y4- 08+60.00
13B
-Y4- STA. 07+60.00
509
70
WEST
EXIT
45
MPH
426
FUTURE SIGNS
3300 mm X 800 mm
EXIT 410 B
17 NORTH
Washington
1/4 MILE
4500 mm X 2700 mm
EAST
70
510
STA. -Y4- 06+00.00
-Y4- US 70
BEGIN CONSTRUCTION EBL
-Y4- POT STA.5+69.220
MATCH LINE STA. 05+00.00
SEE SHEET SIGN-51
PROPOSED SIGNS
-Y4- STA. 11+40.00 TO 05+00.00
METRIC
TIP NO.
R-2301A
Sign-50
APPROVED:
DATE: 9/2/08
SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
028387
ENGINEER
AYMAN I. ALQUDWAH

METRIC

TIP NO.	
R-2301A	Sign-51

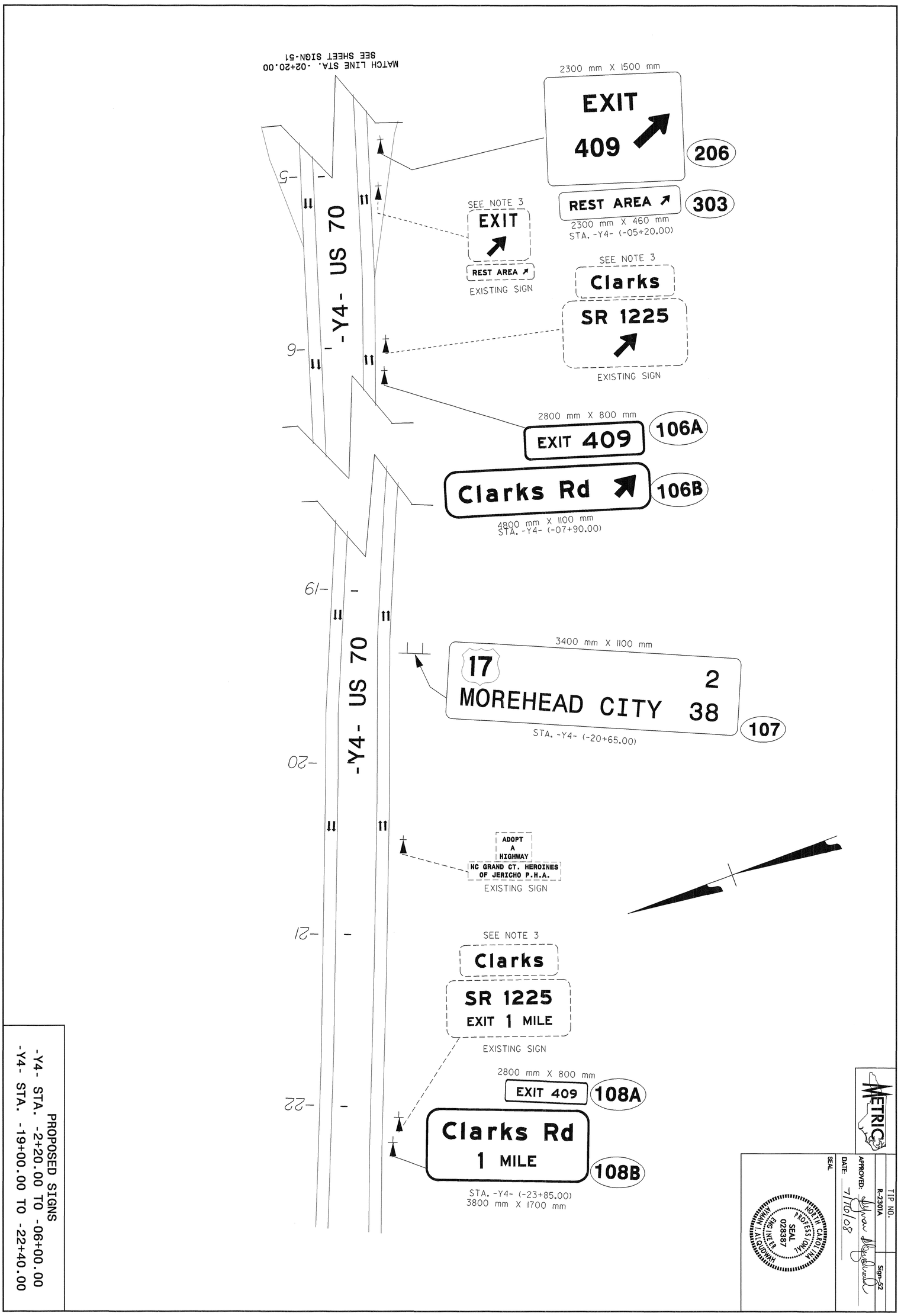
APPROVED: Ayman Alqudwah

DATE: 7/16/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

PROPOSED SIGNS
-Y4- STA. 05+00.00 TO -2+20.00


MATCH LINE STA. -02+20.00
SEE SHEET SIGN-51
2300 mm X 1500 mm
EXIT
409
206
REST AREA
303
2300 mm X 460 mm
STA. -Y4- (-05+20.00)
SEE NOTE 3
EXIT
REST AREA
EXISTING SIGN
SEE NOTE 3
Clarks
SR 1225
EXISTING SIGN
-Y4- US 70
-5
-6
2800 mm X 800 mm
EXIT 409
106A
Clarks Rd
106B
4800 mm X 1100 mm
STA. -Y4- (-07+90.00)
-19
-20
-21
-22
3400 mm X 1100 mm
17
2
MOREHEAD CITY
38
107
STA. -Y4- (-20+65.00)
ADOPT
A
HIGHWAY
NC GRAND CT. HEROINES
OF JERICHO P.H.A.
EXISTING SIGN
SEE NOTE 3
Clarks
SR 1225
EXIT 1 MILE
EXISTING SIGN
2800 mm X 800 mm
EXIT 409
108A
Clarks Rd
1 MILE
108B
STA. -Y4- (-23+85.00)
3800 mm X 1700 mm
METRIC
TIP NO.
R-2301A
Sign-52
APPROVED:
DATE: 7/16/08
SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
028387
ENGINEER
AWAN I. ALIQUDWAH
PROPOSED SIGNS
-Y4- STA. -2+20.00 TO -06+00.00
-Y4- STA. -19+00.00 TO -22+40.00

METRIC

TIP NO.	
R-2301A	Sign-53

APPROVED: Ayman Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

PROPOSED SIGNS

-Y4- STA. 16+00.00 TO 22+00.00

TIP NO.	
R-2301A	Sign-54

APPROVED: Ayman Alqudwah

DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

METRIC

STATIONS ARE IN METRIC
SIGN LOCATIONS ARE APPROXIMATE

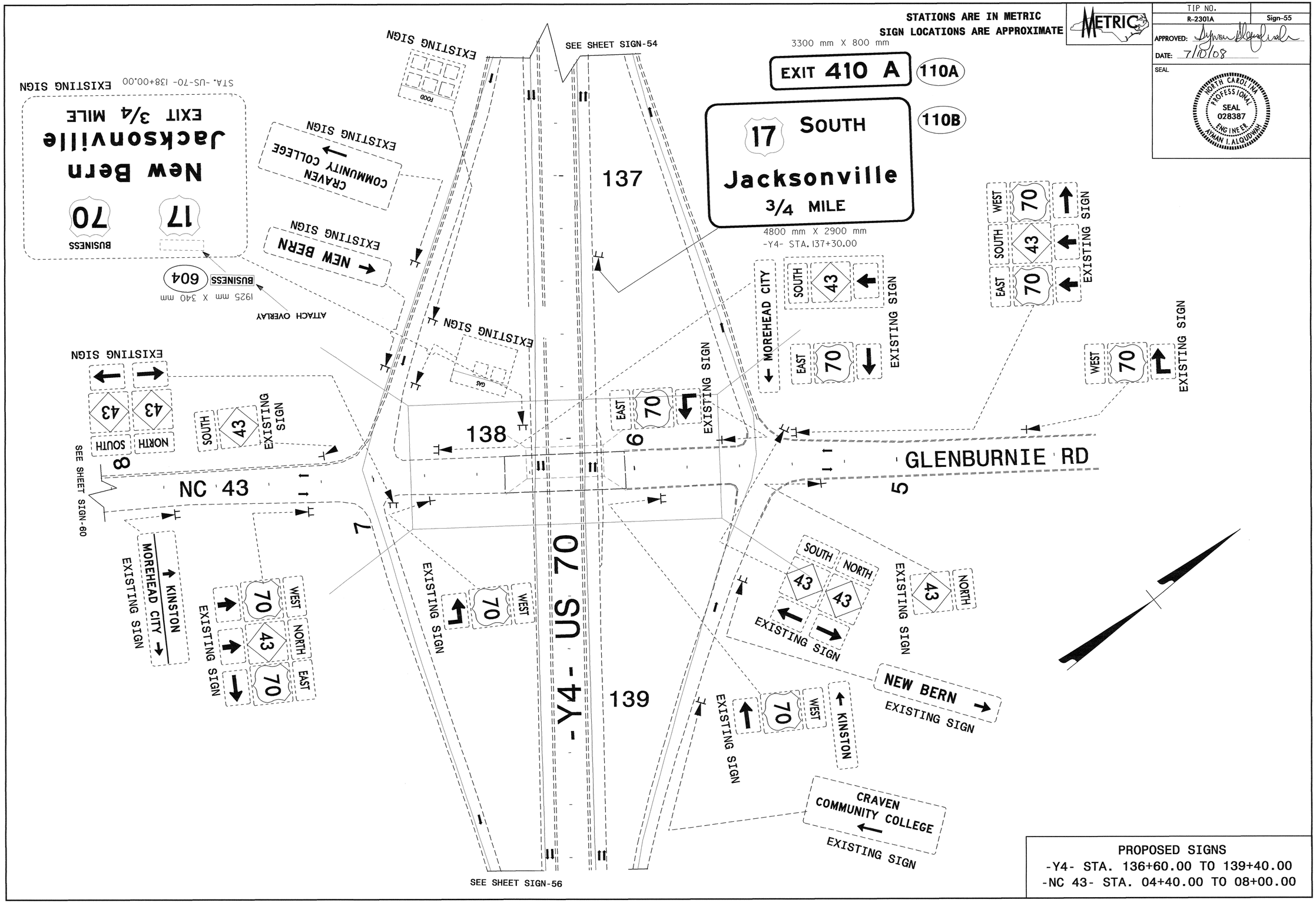
PROPOSED SIGNS
-Y4- STA. 22+00.00 TO 26+00.00

STATIONS ARE IN METRIC
SIGN LOCATIONS ARE APPROXIMATE

METRIC

TIP NO.	
R-2301A	Sign-55

APPROVED: Lynn Blackwelder
DATE: 7/10/08
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PROPOSED SIGNS
-Y4- STA. 136+60.00 TO 139+40.00
-NC 43- STA. 04+40.00 TO 08+00.00

TIP NO.	
R-2301A	Sign-56

APPROVED: Hyman I. Alquduah

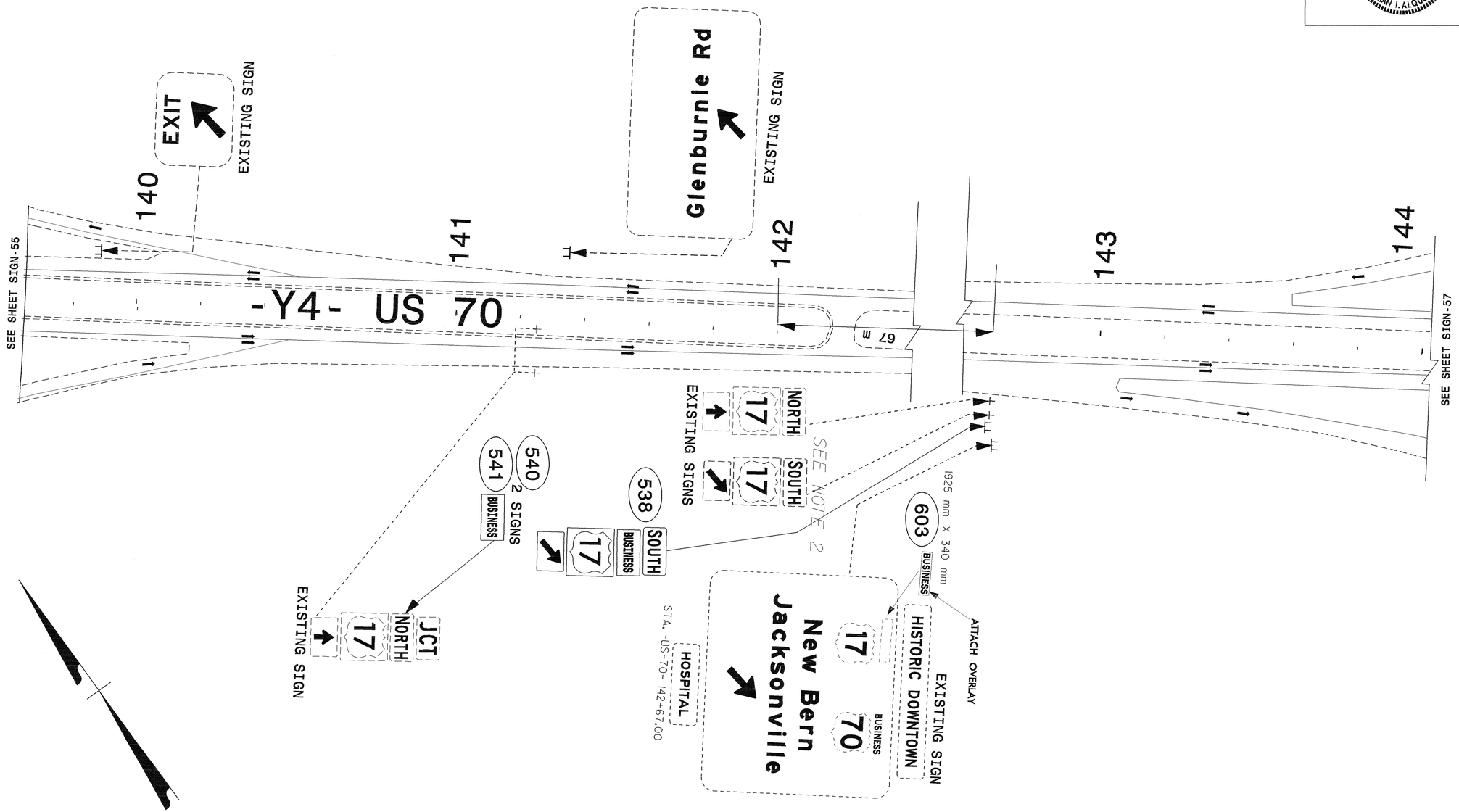
DATE: 7/16/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER HYMAN I. ALQUDUAH

METRIC

STATIONS ARE IN METRIC
SIGN LOCATIONS ARE APPROXIMATE



PROPOSED SIGNS
-Y4- STA. 140+00.00 TO 144+00.00

STATIONS ARE IN METRIC
SIGN LOCATIONS ARE APPROXIMATE

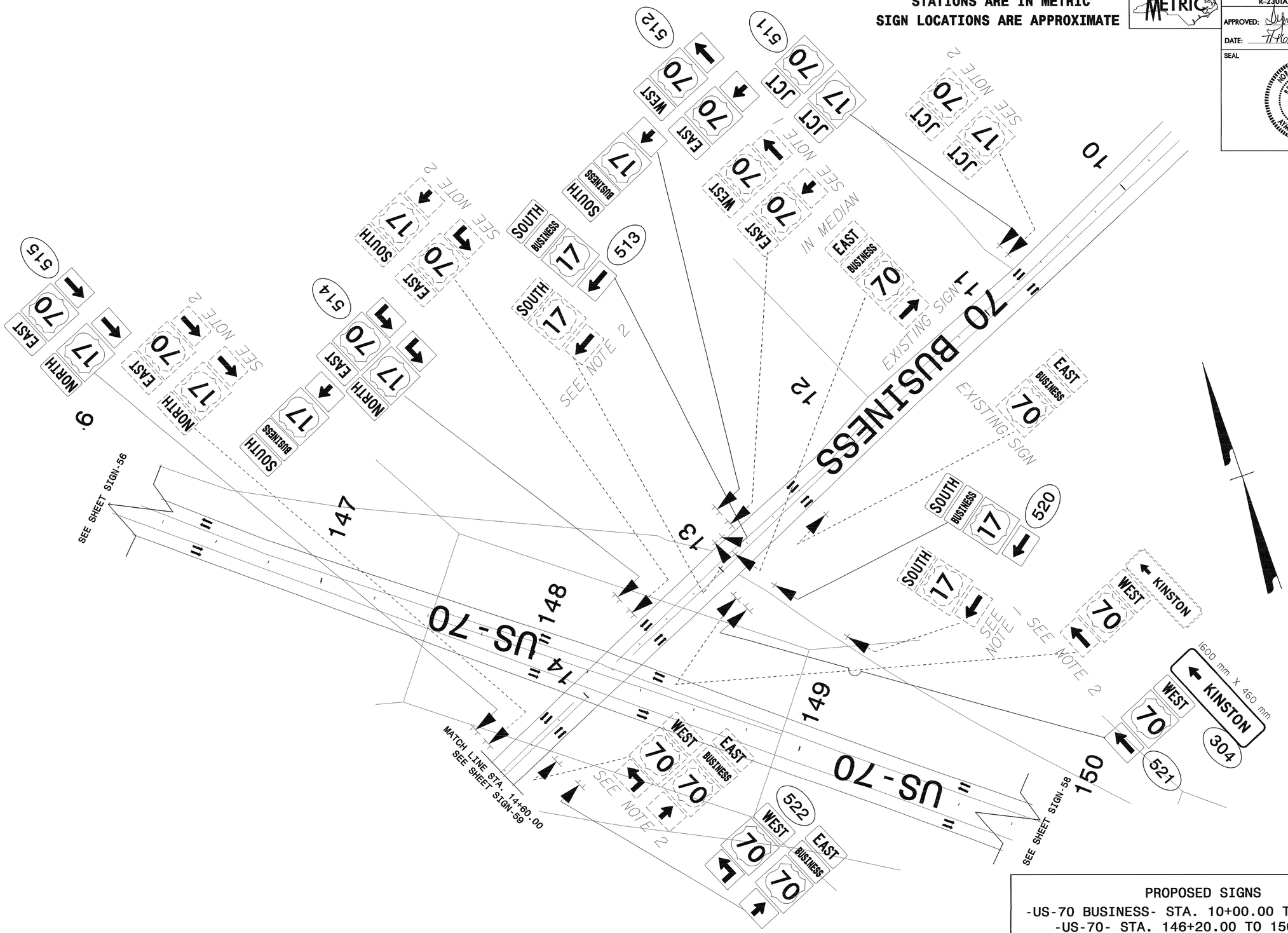
METRIC

TIP NO.	
R-2301A	Sign-57

APPROVED: Dynan I. Aloudwah
DATE: 7/10/08

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALOUDWAH



PROPOSED SIGNS
-US-70 BUSINESS- STA. 10+00.00 TO 14+60.00
-US-70- STA. 146+20.00 TO 150+00.00

STATIONS ARE IN METRIC
SIGN LOCATIONS ARE APPROXIMATE

METRIC

TIP NO.	
R-2301A	Sign-58

APPROVED: [signature]
DATE: 7/10/08

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

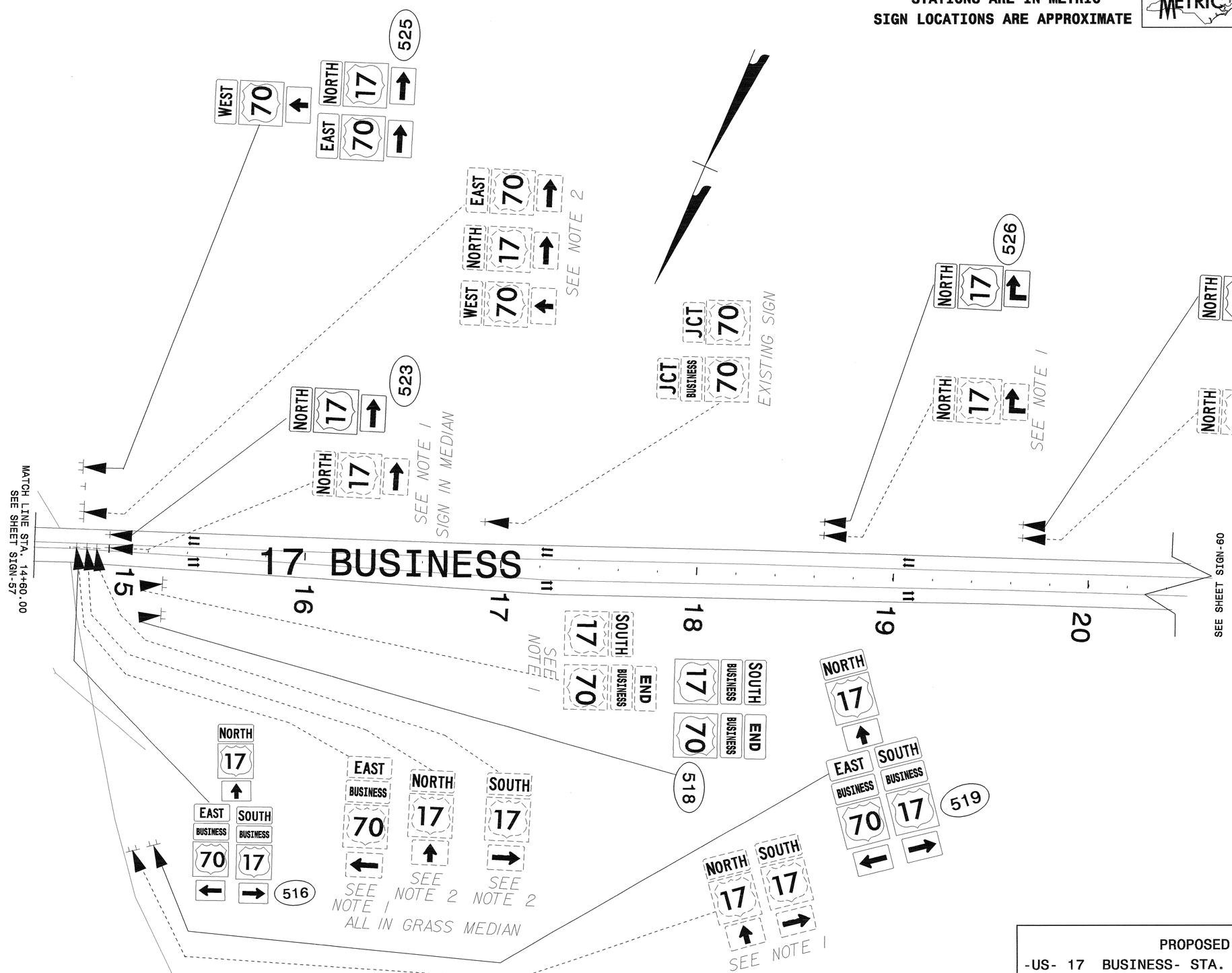
PROPOSED SIGNS
-US-70- STA. 151+80.00 TO 152+80.00
-US-70- STA. 157+00.00 TO 158+00.00

STATIONS ARE IN METRIC
SIGN LOCATIONS ARE APPROXIMATE

METRIC

TIP NO.	
R-2301A	Sign-59

APPROVED: [signature]
DATE: 7/16/08
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PROPOSED SIGNS
-US- 17 BUSINESS- STA. 14+80.00 TO 20+00.00

STATIONS ARE IN METRIC
SIGN LOCATIONS ARE APPROXIMATE

METRIC

TIP NO.	
R-2301A	Sign-60

APPROVED: Ayman Alquduah
DATE: 7/10/08
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

PROPOSED SIGNS
-US-17 BUSINESS- STA. 25+40.00 TO 30+40.00