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 mason AT 12/27/08

T.I.P.: U-2519DA

CONTRACT: C202028

**STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION**

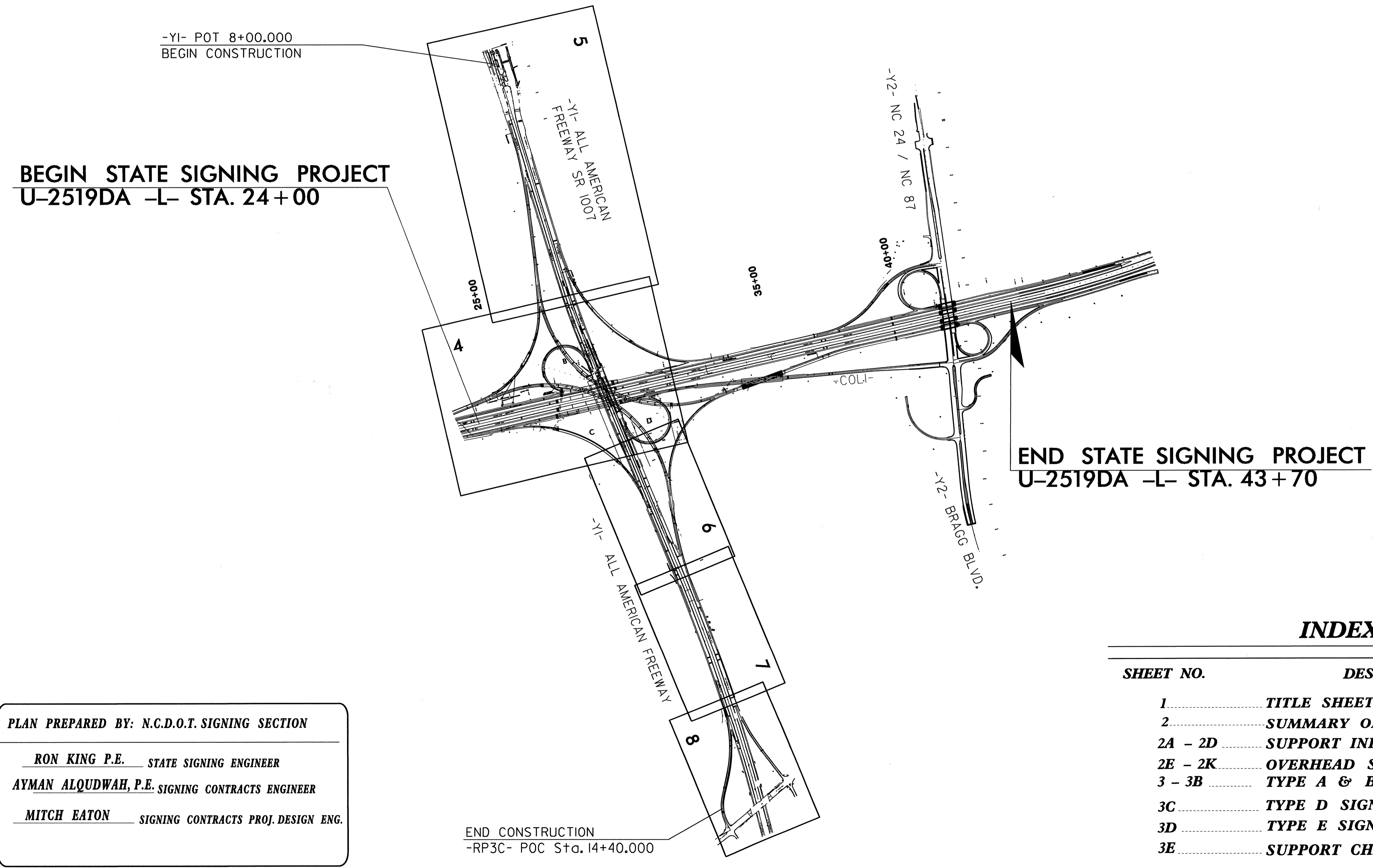


TIP NO. U-2519DA	SHEET NO. SIGN-1
APPROVED: <i>[Signature]</i>	
DATE: 8-18-11	
SEAL	



SIGNING PLANS

LOCATION: FAYETTEVILLE OUTER LOOP FROM EAST OF SR 1415 TO WEST OF NC 24 (BRAGG BOULEVARD)



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

RON KING P.E. STATE SIGNING ENGINEER


AYMAN ALQUDWAH, P.E. SIGNING CONTRACTS ENGINEER

MITCH EATON SIGNING CONTRACTS PROJ. DESIGN ENG.

INDEX

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4 - 8	PROPOSED & EXISTING SIGN ROADWAY SHEETS

3-WAY CHECK 8/17/11
[Signature]

TIP NO. U-2519DA	SHEET NO. SIGN-2
APPROVED: <i>Ayman Alquodhi</i>	
DATE: 8-18-11	
SEAL	
	

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	2	C.M.
4057000000	SP	OVERHEAD FOOTING	81	C.M.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	99	KG.
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM	293	KG.
4072000000	903	SUPPORTS, 4.5 KG STEEL U-CHANNEL	73	L.M.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA 16+80 -Y1-	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA 11+00 -Y1-	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA 12+20 -Y1-	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA 23+00 -Y1-	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA 28+30 -Y1-	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA 27+70 -Y1-	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA 31+75 -Y1-	1	L.S.
4096000000	904	SIGN ERECTION, TYPE D	2	EA.
4102000000	904	SIGN ERECTION, TYPE E	6	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	3	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E	8	EA.
4149000000	907	DISPOSAL OF SIGN SYSTEM, OVERHEAD	4	EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	4	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	14	EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	1	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	1	EA.
4238000000	907	DISPOSAL OF SIGN, D, E OR F	2	EA.

Pay Item Notes:	
1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2	DISPOSAL OF SIGN SYSTEM, STEEL BEAM
3	RELOCATE SIGN, TYPE E
4	DISPOSAL OF SUPPORTS, U-CHANNEL
5	DISPOSAL OF SIGN SYSTEM, OVERHEAD
6	DISPOSAL OF SIGN SYSTEM, WOOD
7	DISPOSAL OF SIGN, A OR B (OVERHEAD)
8	SIGN ERECTION, TYPE A (OVERHEAD)
9	SIGN ERECTION, TYPE D, E, AND F
10	DISPOSAL OF SIGN, D, E OR F

Project Notes:	
A	ALL PROPOSED A & B SIGNS TO REPLACE EXISTING SIGNS SHALL BE PLACED 3.0 METERS BEHIND EXISTING SIGNS.
B	EXISTING SIGN SUPPORTS AND FLASHER EQUIPMENT TO BE HANDLED BY OTHERS.

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

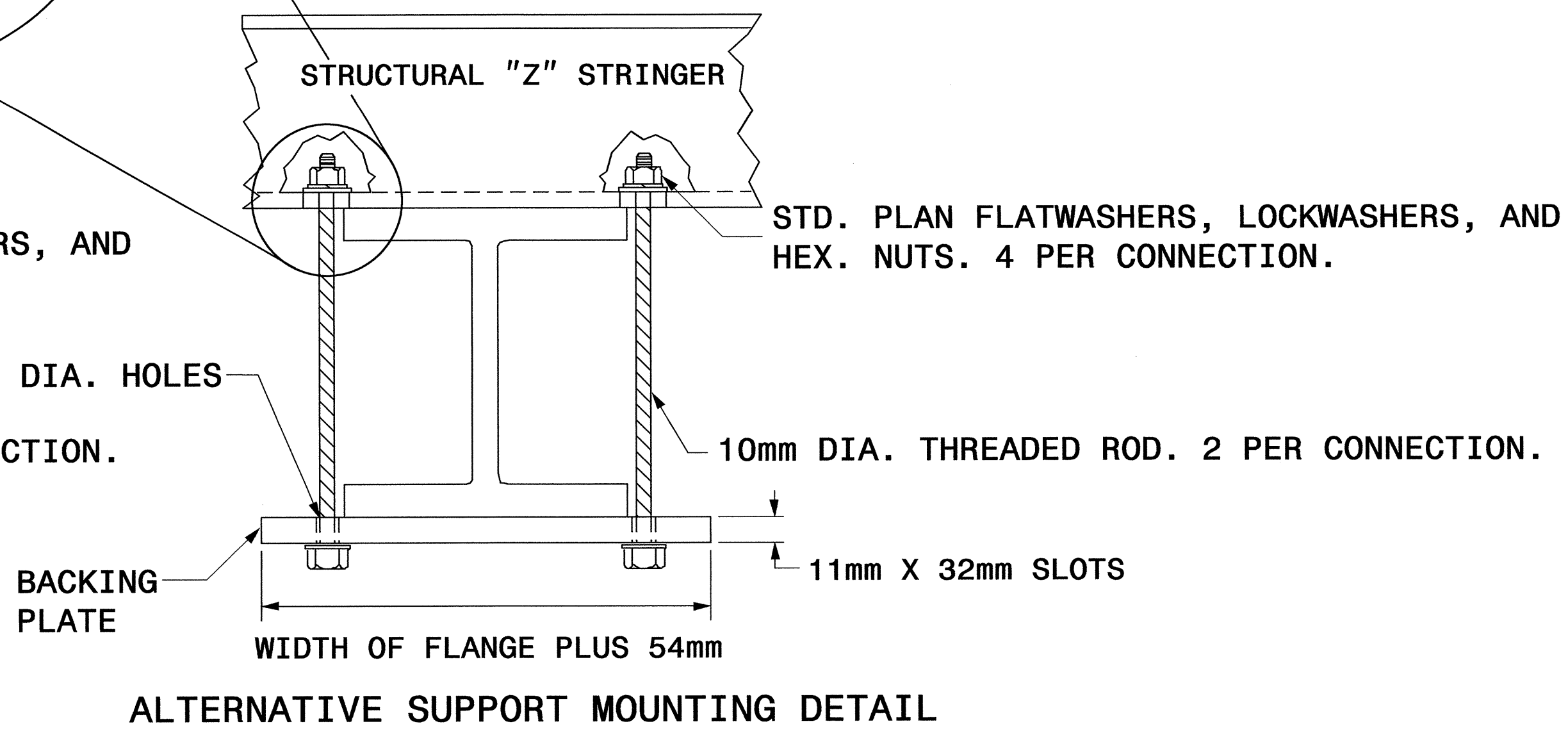
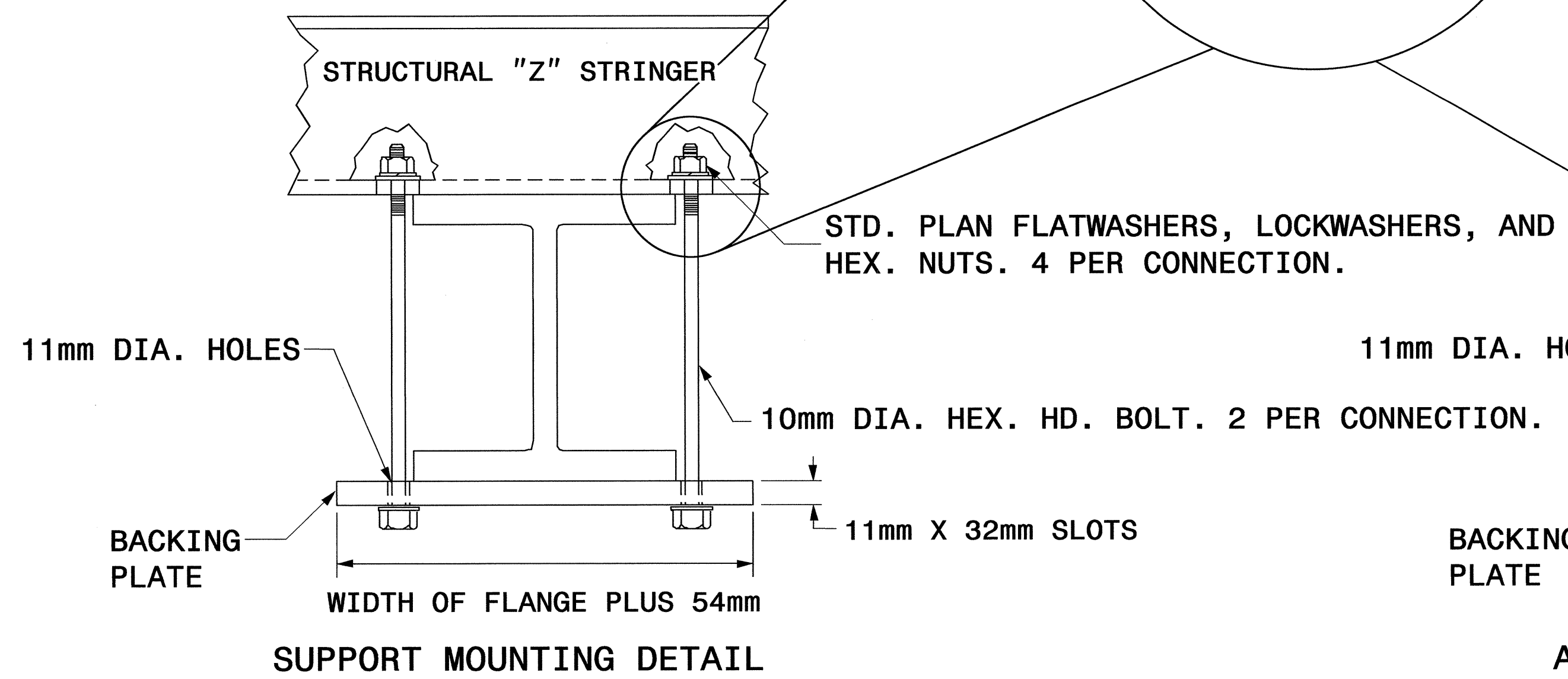
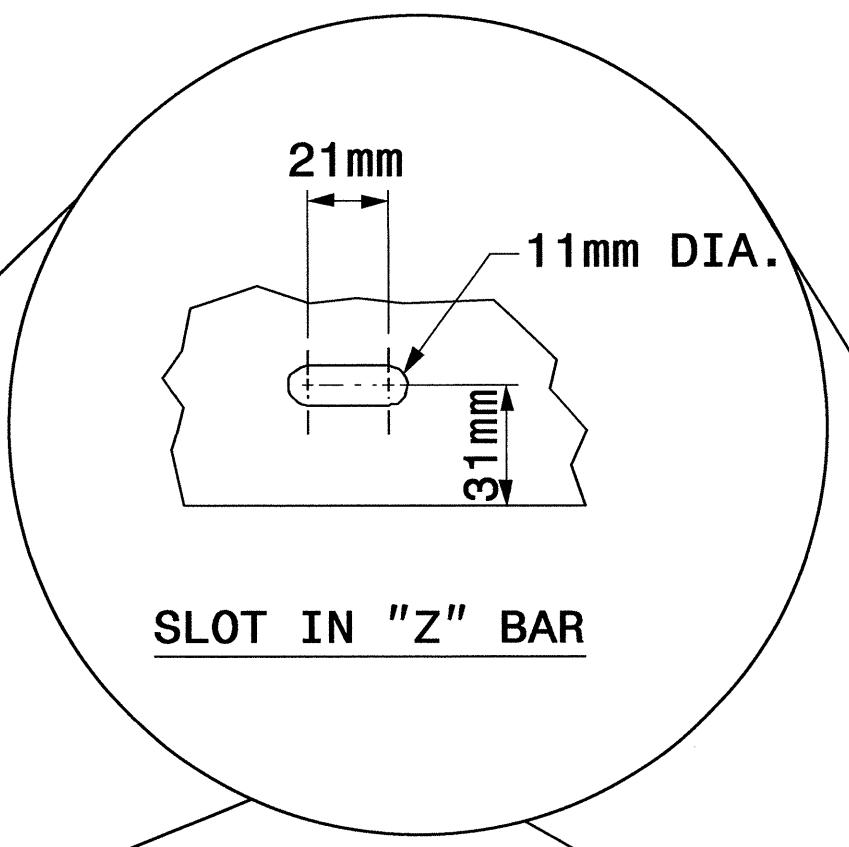
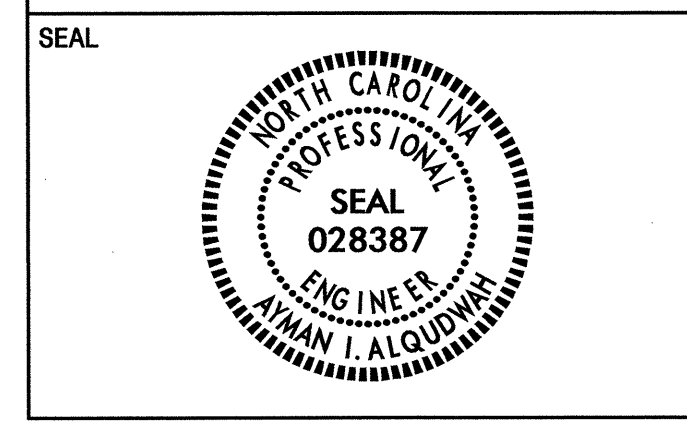
ROADWAY STANDARD DRAWINGS
APPLICABLE TO THESE SIGNING PLANS

901.10	904.10
901.20	904.20
901.50	904.40
901.70	904.50

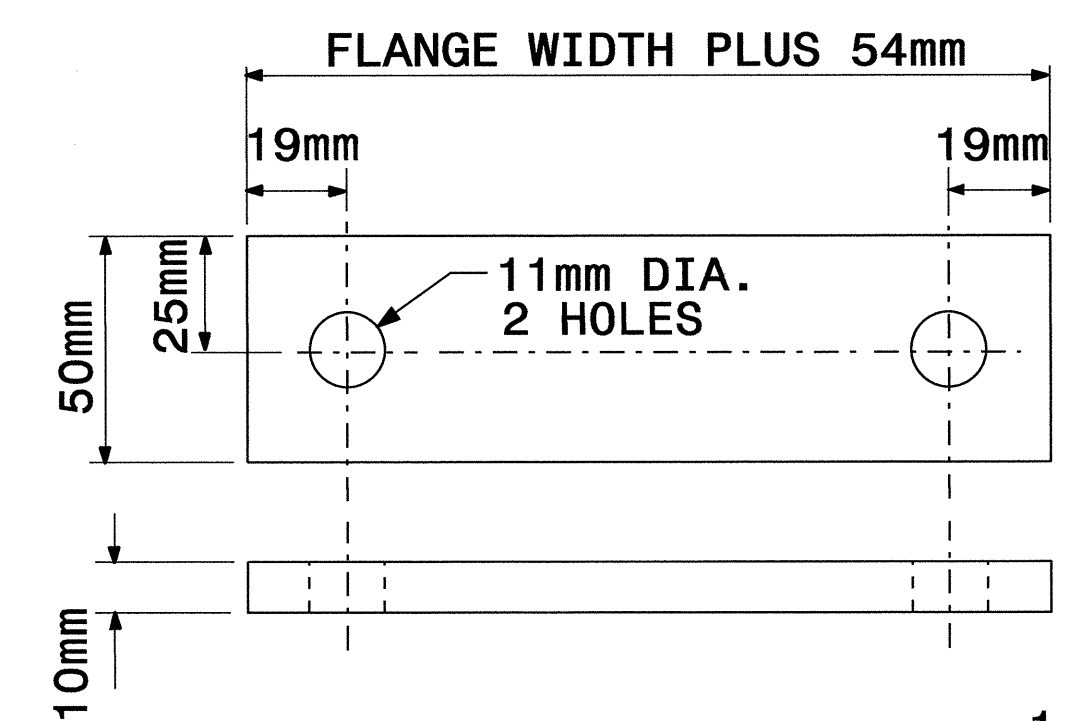
**SUMMARY OF QUANTITIES
AND NOTES**



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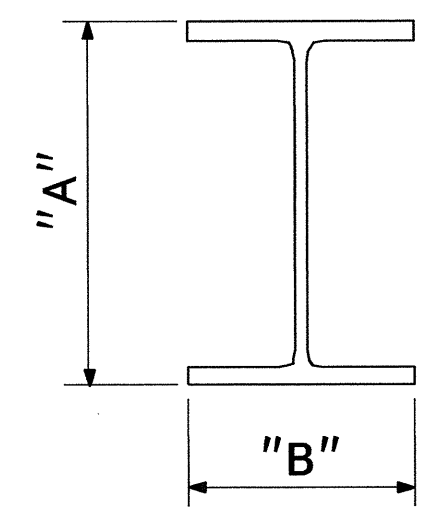


**BACKING PLATE
DETAIL**



SIGN SUPPORTS SECTION DIMENSIONS

SECTION	A	B
S75 X 8.5	76.2	60.3
S100 X 11	101.6	66.7
W150 X 13	152.4	101.6
W150 X 18	152.4	101.6
W150 X 24	158.8	101.6
W200 X 27	206.4	133.4
W200 X 31	209.6	133.4
W250 X 33	257.2	146.1
W250 X 39	263.5	146.1
W300 X 39	311.2	165.0
W350 X 45	352.4	171.5
W400 X 31	403.2	139.7
W450 X 52	450.9	152.4
W450 X 60	454.0	152.4
W525 X 65	523.9	165.1



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.
3. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR TYPE OF MATERIAL TO BE USED FOR SIGN HANGER ASSEMBLIES AND SUPPORTS.
4. USE GALVANIZED STEEL FOR MOUNTING BOLTS AND THREADED RODS IN COMPLIANCE WITH ASTM A307 AND ASTM A153.

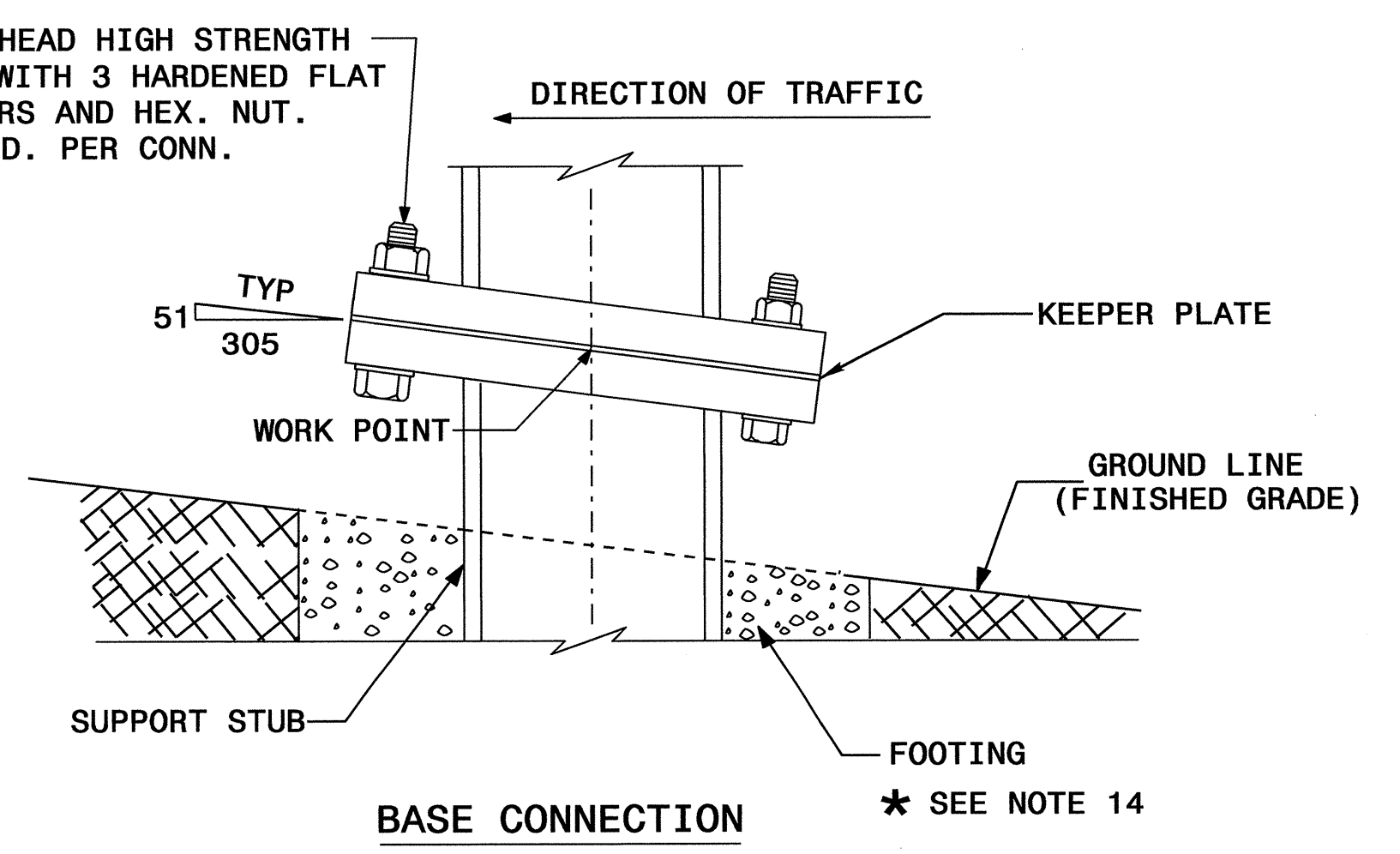
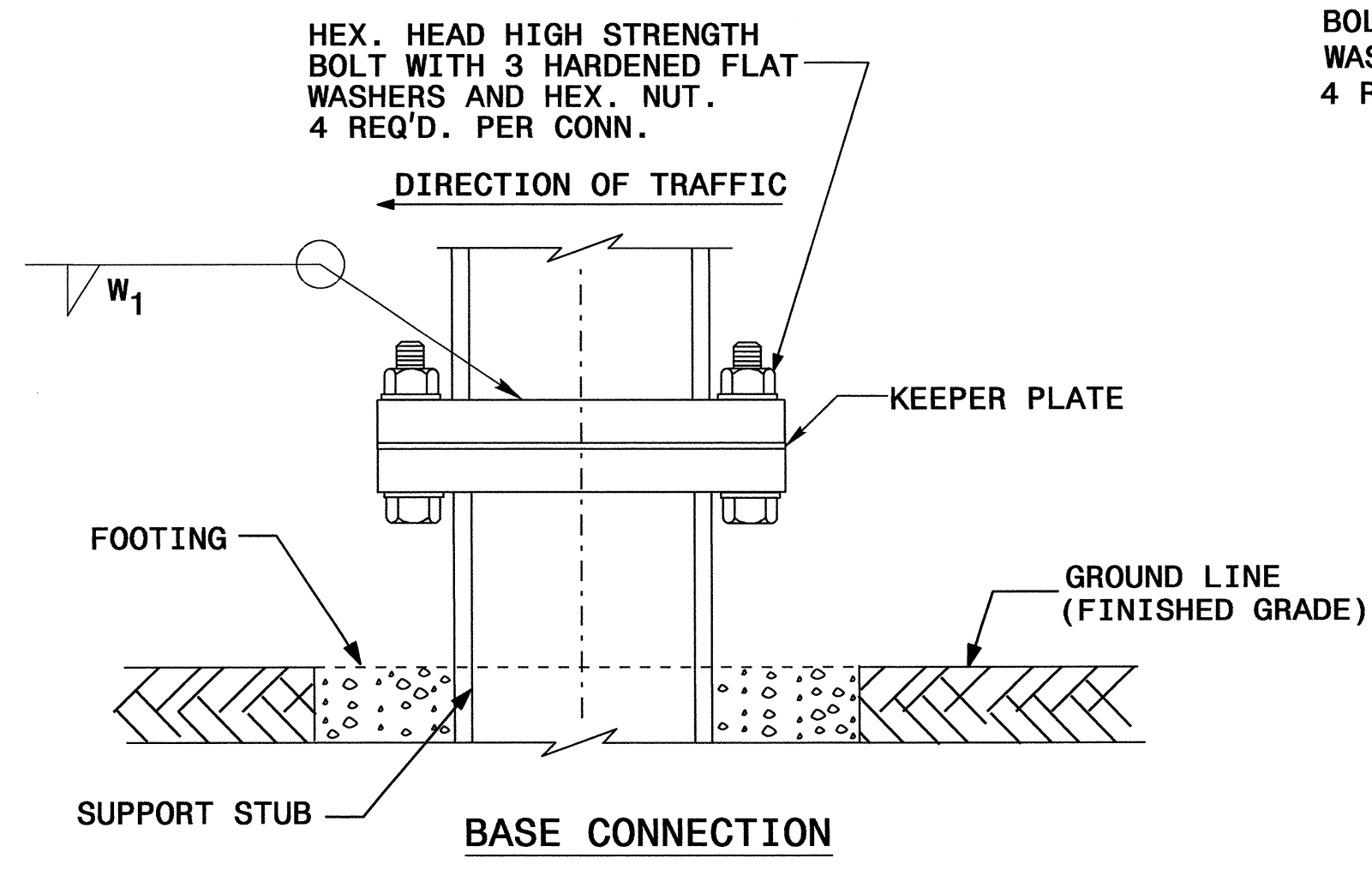
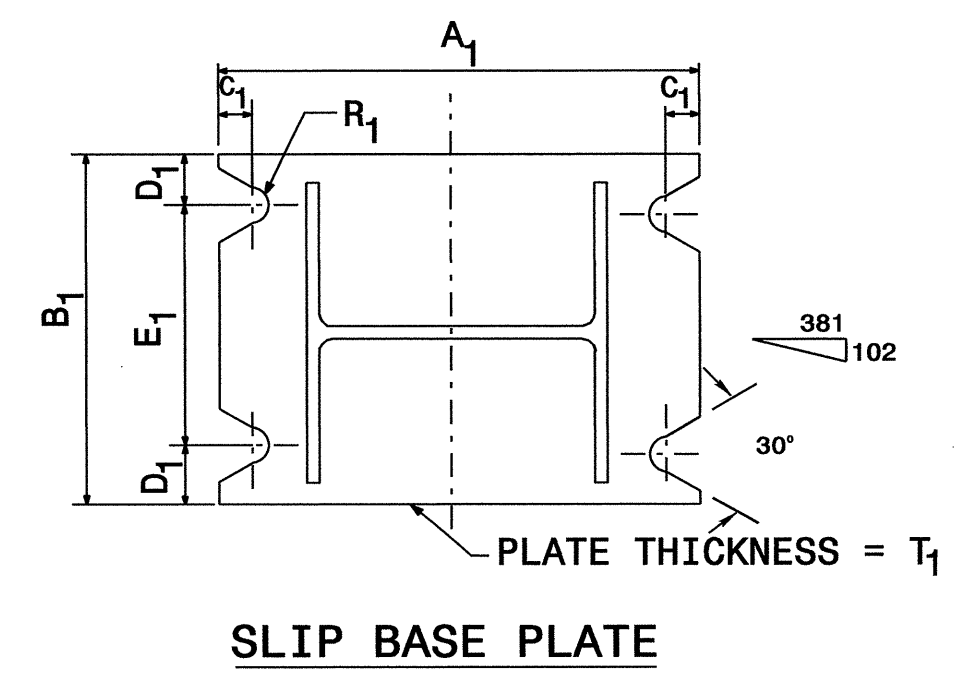
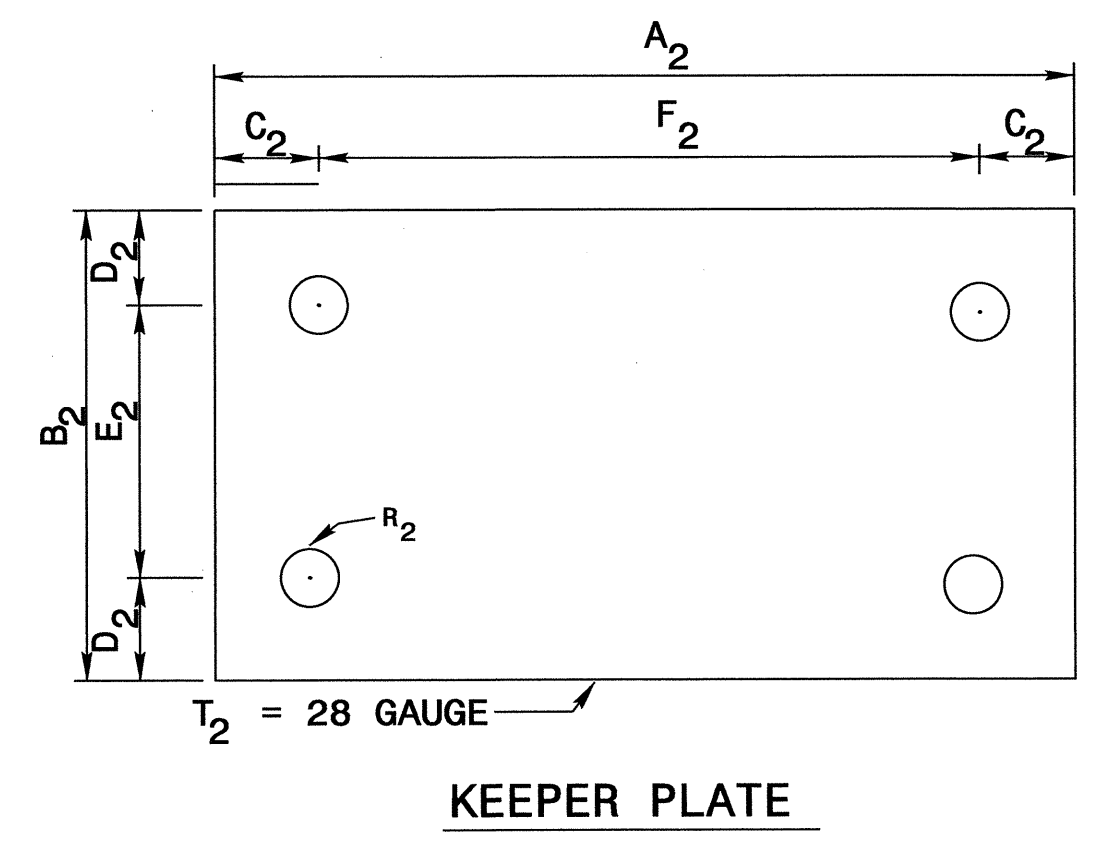
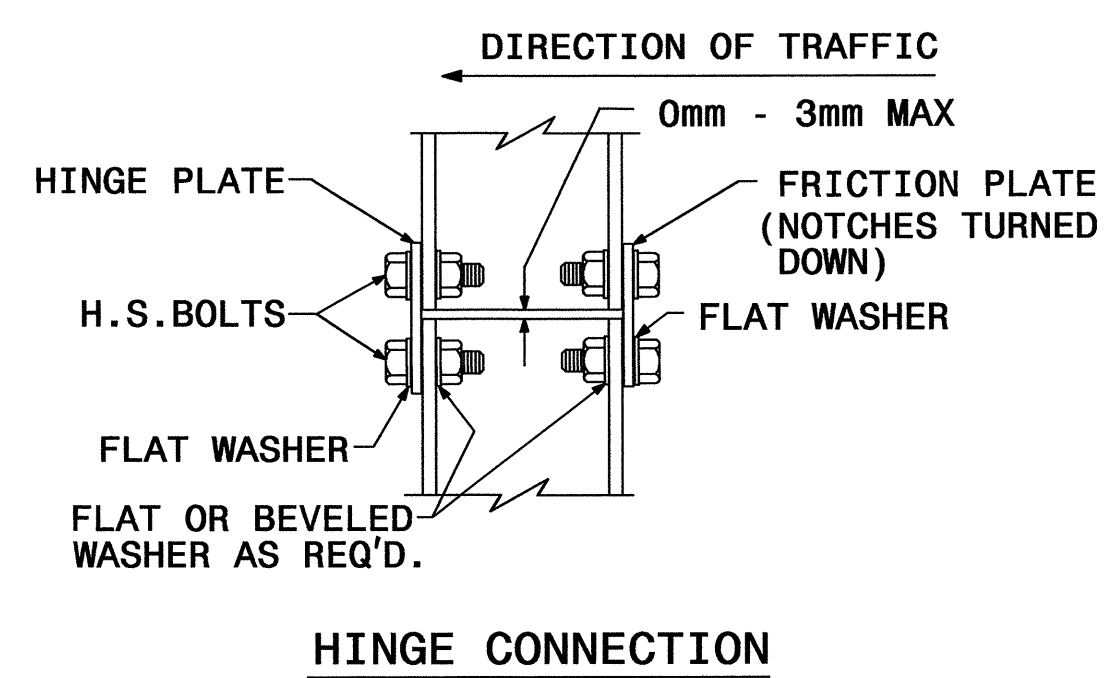
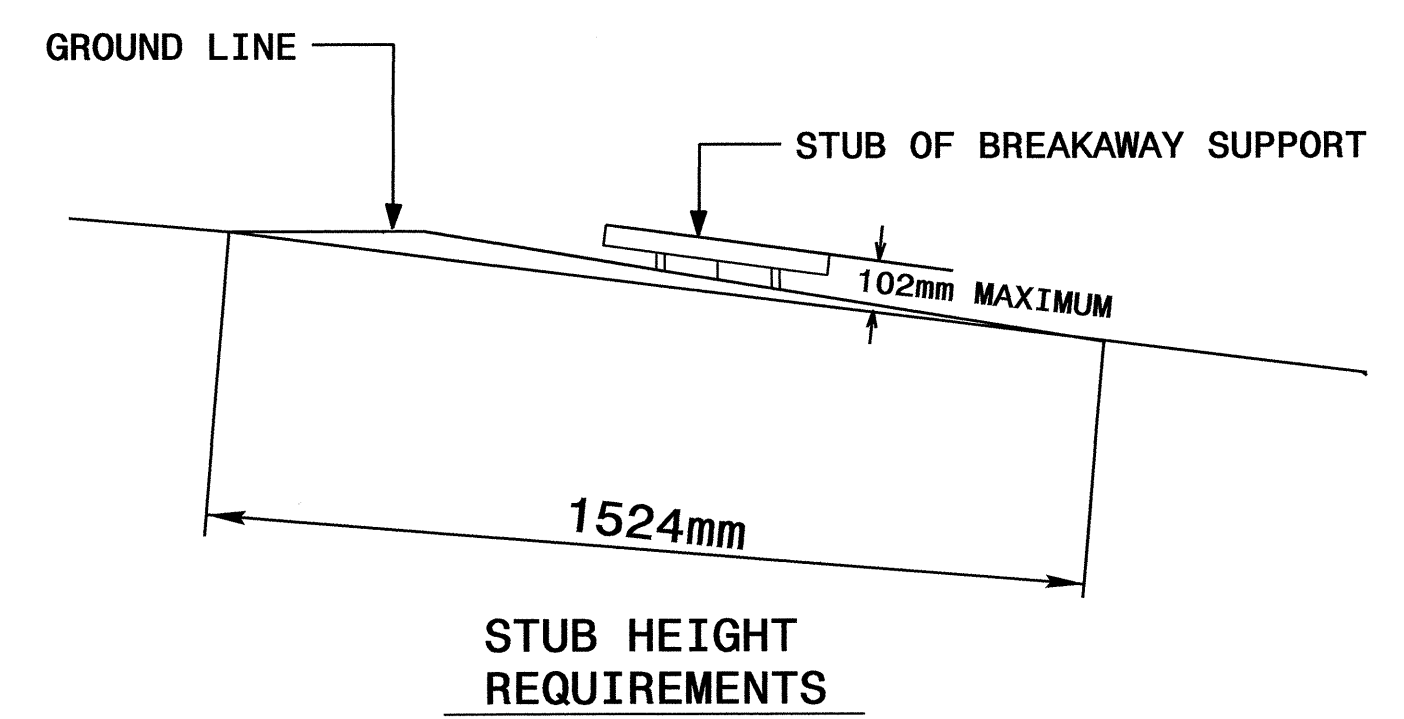
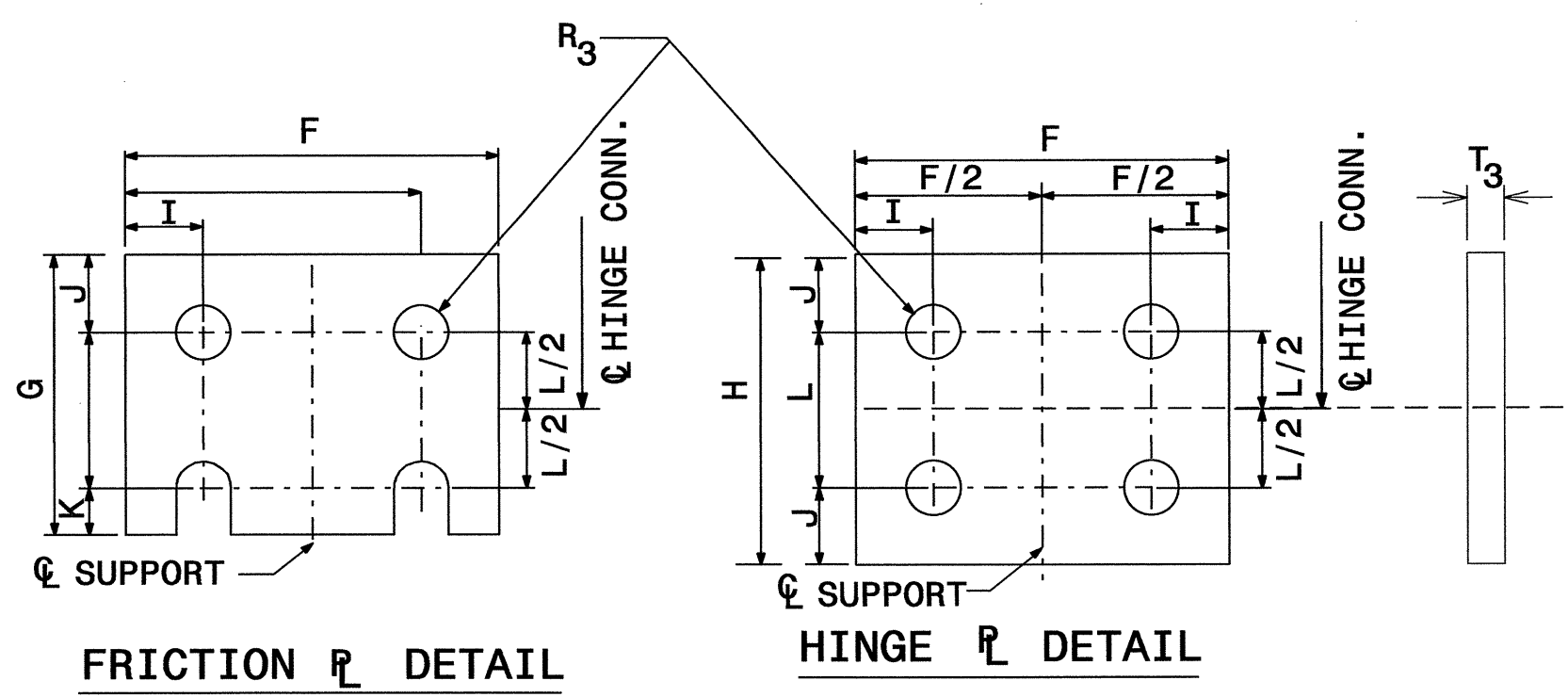
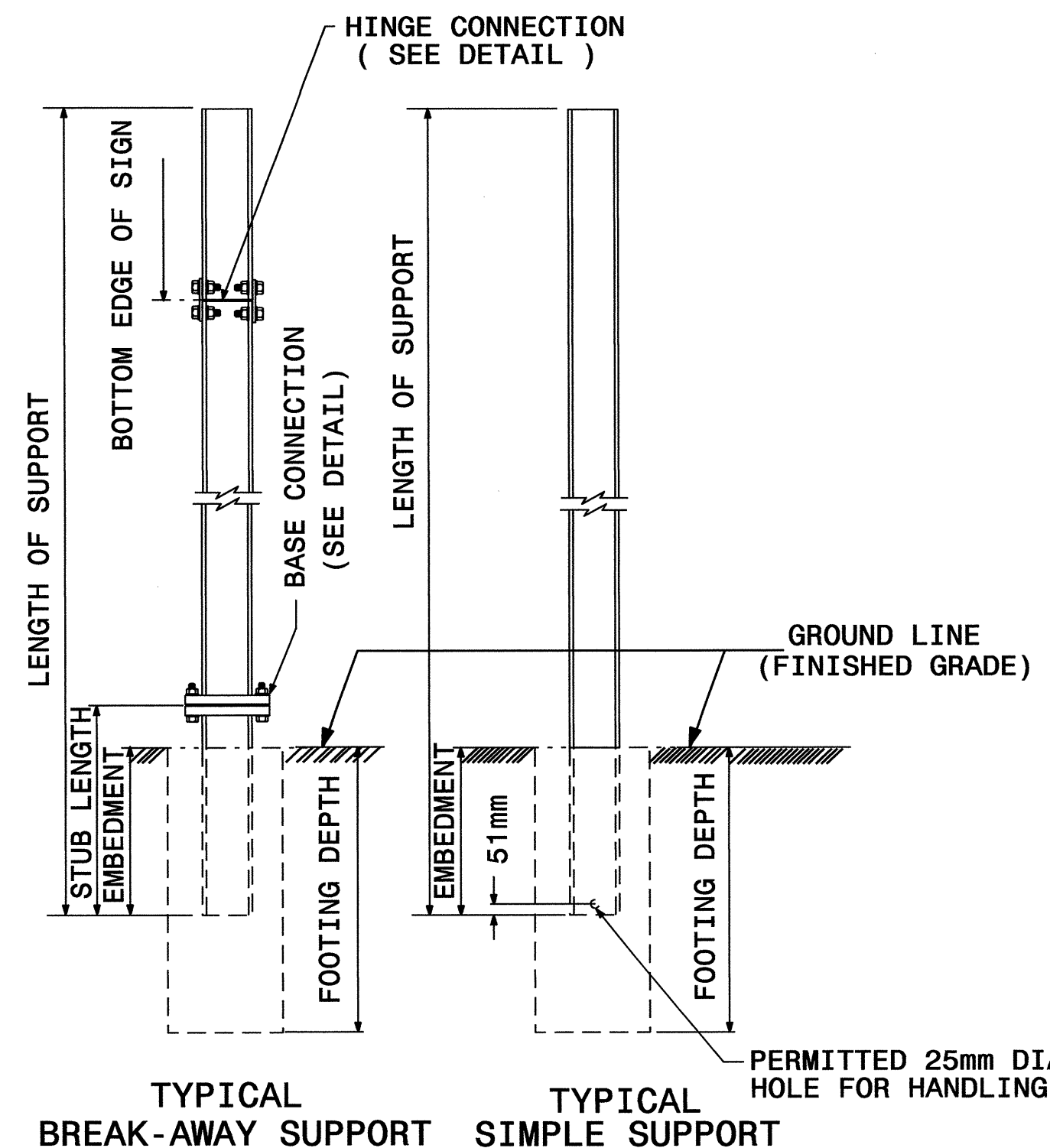
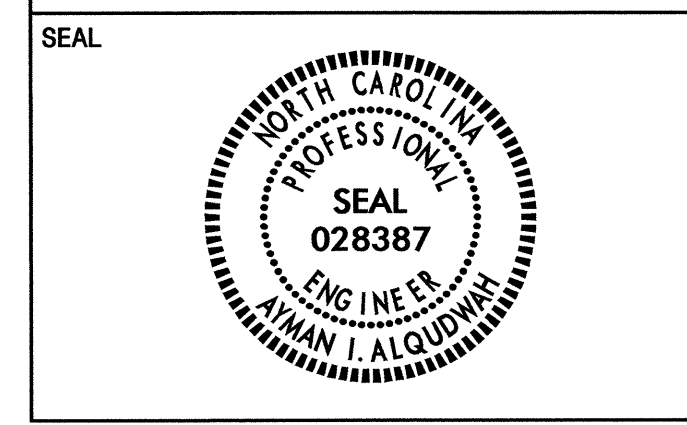
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SIGN MOUNTING DETAILS

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TIP NO. U-2519DA SHEET NO. SIGN-28
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SEE SHEET 2 OF 3 FOR
 BASE CONNECTION DATA
 HINGE CONNECTION DATA
 & FOUNDATION DATA.
 SEE SHEET 3 OF 3 FOR
 GENERAL NOTES.

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

GROUND MOUNTED SIGN SUPPORTS

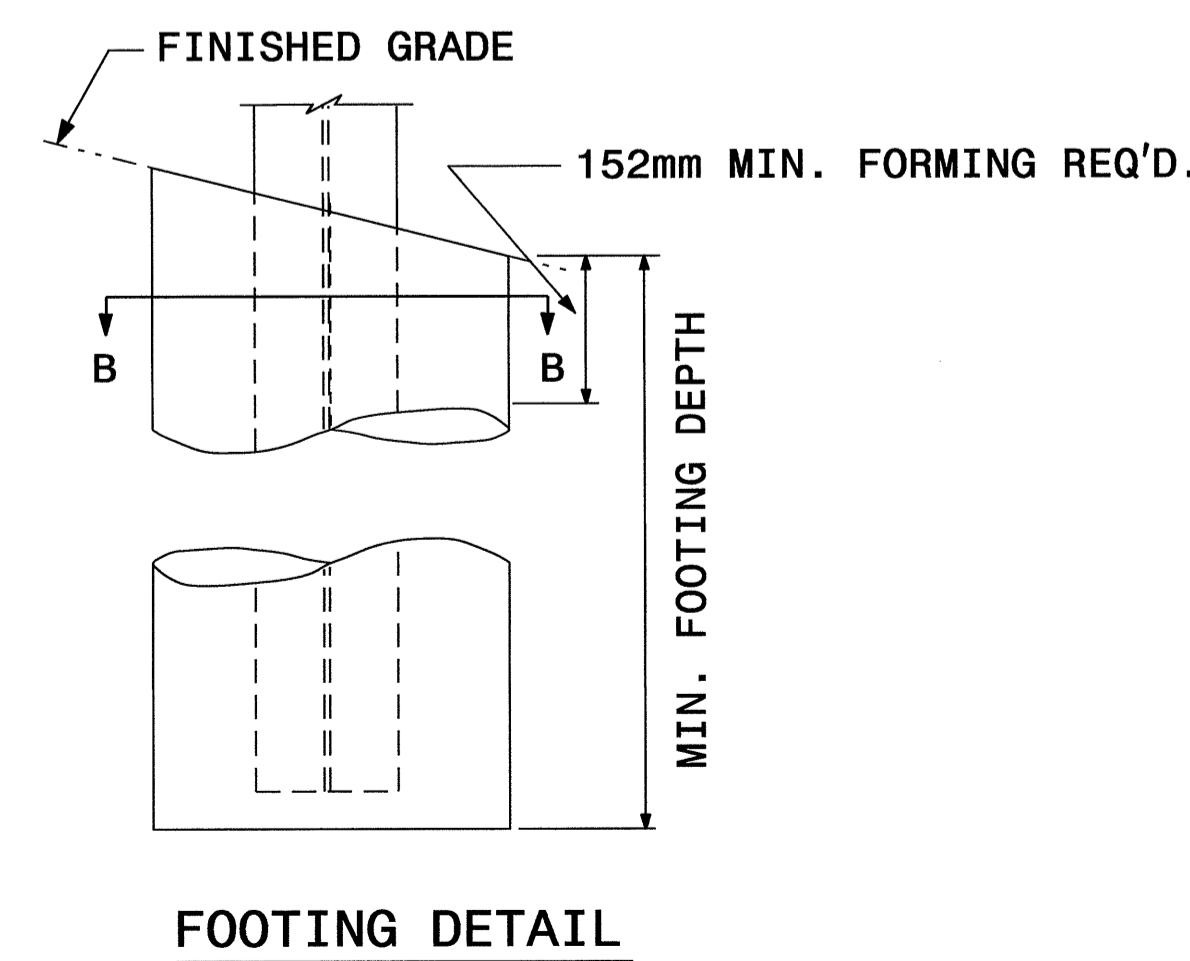
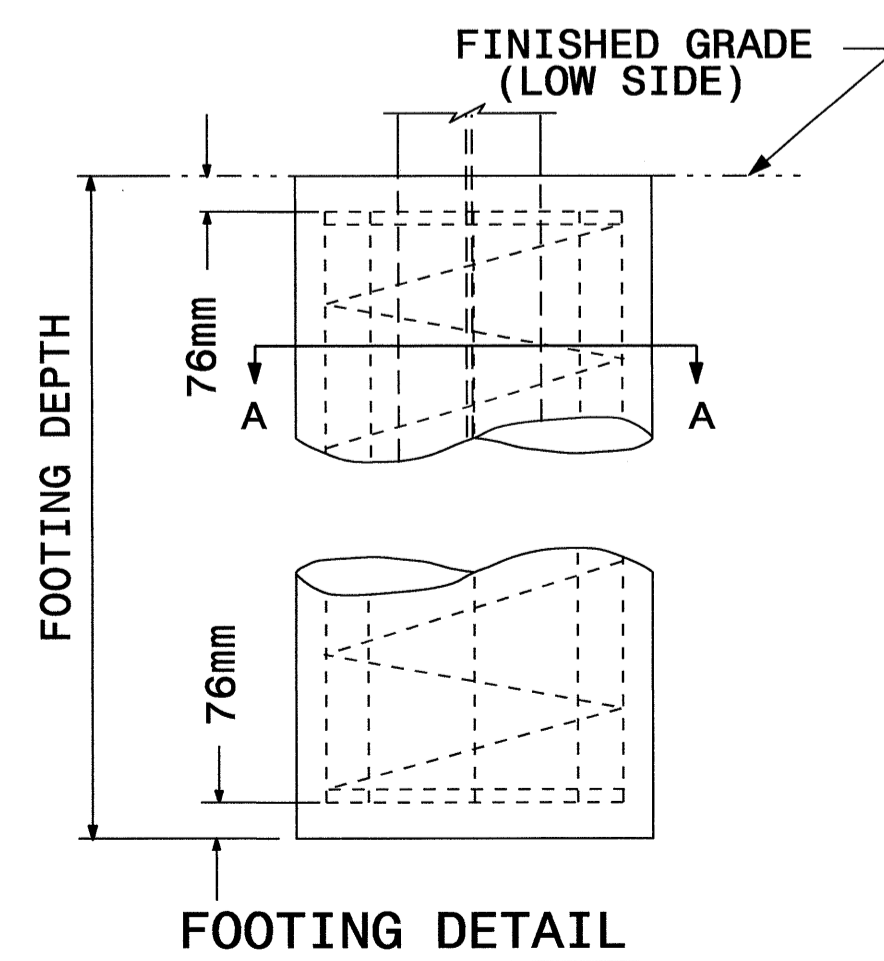
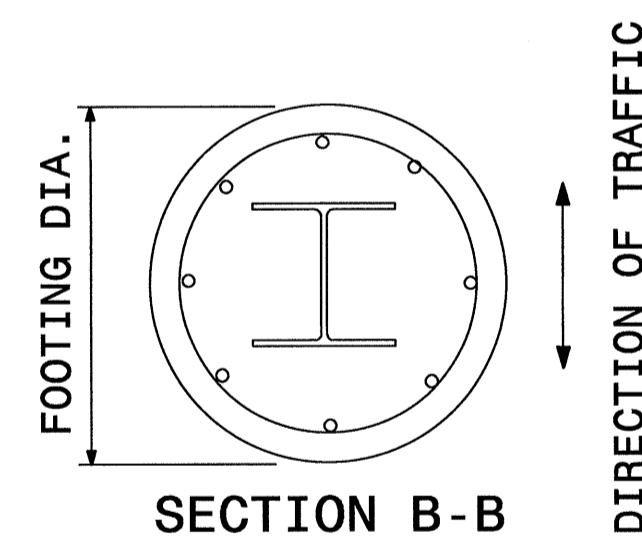
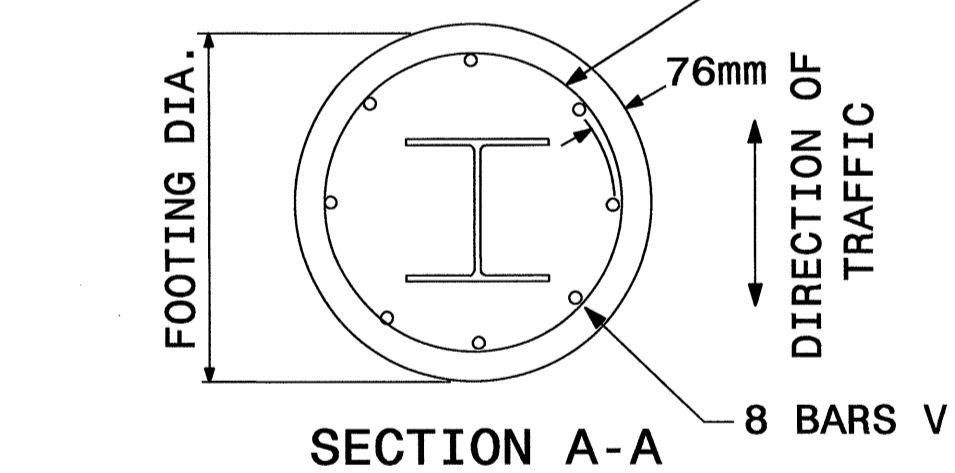
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TIP NO. U-2519DA	SHEET NO. SIGN-2C
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BEAM SHAPE	BOLT SIZE	SLIP BASE PLATE DATA								KEEPER PLATE DATA								HINGE CONNECTION DATA								BREAK AWAY SUPPORT WEIGHT CONSTANT KGS.
		A ₁	B ₁	C ₁	D ₁	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	
S75X8.5	13 DIA. X 76	178	102	25	19	64	25	7	178	102	25	19	64	7	28 GAUGE	13 DIA. X 32	57	89	102	13	25	13	51	7	10	8
S100X11	13 DIA. X 76	203	102	25	19	64	25	7	203	102	25	19	64	7	28 GAUGE	13 DIA. X 32	67	89	102	13	25	13	51	7	10	9
W150X13	13 DIA. X 76	254	127	25	19	89	25	7	254	127	25	19	89	7	28 GAUGE	13 DIA. X 32	102	89	102	19	25	13	51	7	10	15
W150X18	16 DIA. X 95	279	127	32	22	83	32	9	279	127	32	22	83	9	28 GAUGE	16 DIA. X 57	102	102	114	19	29	16	57	9	10	18
W150X24	16 DIA. X 95	305	152	32	22	108	38	9	305	152	32	22	108	9	28 GAUGE	16 DIA. X 64	102	102	114	19	29	16	57	9	13	21
W200X27	16 DIA. X 108	343	165	32	22	121	38	9	343	165	32	22	121	9	28 GAUGE	16 DIA. X 64	133	102	114	25	29	16	57	9	13	32
W200X31	19 DIA. X 108	356	178	38	25	127	38	10	356	178	38	25	127	10	28 GAUGE	19 DIA. X 70	133	152	178	25	44	19	89	10	13	33
W250X33	19 DIA. X 108	406	203	38	25	152	38	10	406	203	38	25	152	10	28 GAUGE	19 DIA. X 70	146	152	178	25	44	19	89	10	13	54
W250X39	19 DIA. X 121	419	203	38	25	152	44	10	419	203	38	25	152	10	28 GAUGE	19 DIA. X 70	146	152	178	25	44	19	89	10	16	64
W300X39	19 DIA. X 121	470	229	38	25	178	44	10	470	229	38	25	178	10	28 GAUGE	19 DIA. X 70	165	152	178	25	44	19	89	10	16	80
W350X45	25 DIA. X 127	559	229	51	38	152	51	13	559	229	51	38	152	13	28 GAUGE	25 DIA. X 76	171	178	203	32	51	25	102	13	16	93
W400X46	25 DIA. X 127	610	229	51	38	152	51	13	610	229	51	38	152	13	28 GAUGE	25 DIA. X 83	140	178	203	32	51	25	102	13	19	101
W450X52	25 DIA. X 127	635	229	51	38	152	51	13	635	229	51	38	152	13	28 GAUGE	25 DIA. X 83	152	178	203	32	51	25	102	13	19	110
W450X60	25 DIA. X 140	660	229	51	38	152	57	13	660	229	51	38	152	13	28 GAUGE	25 DIA. X 95	152	178	203	32	51	25	102	13	22	126
W525X65	25 DIA. X 140	737	229	51	38	152	64	13	737	229	51	38	152	13	28 GAUGE	25 DIA. X 95	165	178	203	32	51	25	102	13	22	141

51mm FLAT TURNS
TOP AND BOTTOM
(SEE NOTE 11)



FOUNDATION DATA *		
FOOTING DIAMETER	REINFORCEMENT	SPIRAL BAR
305	8 # 4 BARS	#3 BAR, 76 PITCH
457	8 # 6 BARS	#3 BAR, 76 PITCH
610	8 # 7 BARS	#3 BAR, 76 PITCH
762	8 # 9 BARS	#3 BAR, 76 PITCH
914	8 # 11 BARS	#3 BAR, 76 PITCH
1067	8 # 12 BARS	#3 BAR, 76 PITCH
1219	8 # 14 BARS	#3 BAR, 76 PITCH

* FOUNDATION DIMENSIONS ARE SHOWN IN PLANS
SEE SHEET 8 FOR NOTES

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

GROUND MOUNTED SIGN SUPPORTS

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NOTES:

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

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

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

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

Note:
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GROUND MOUNTED SIGN SUPPORTS

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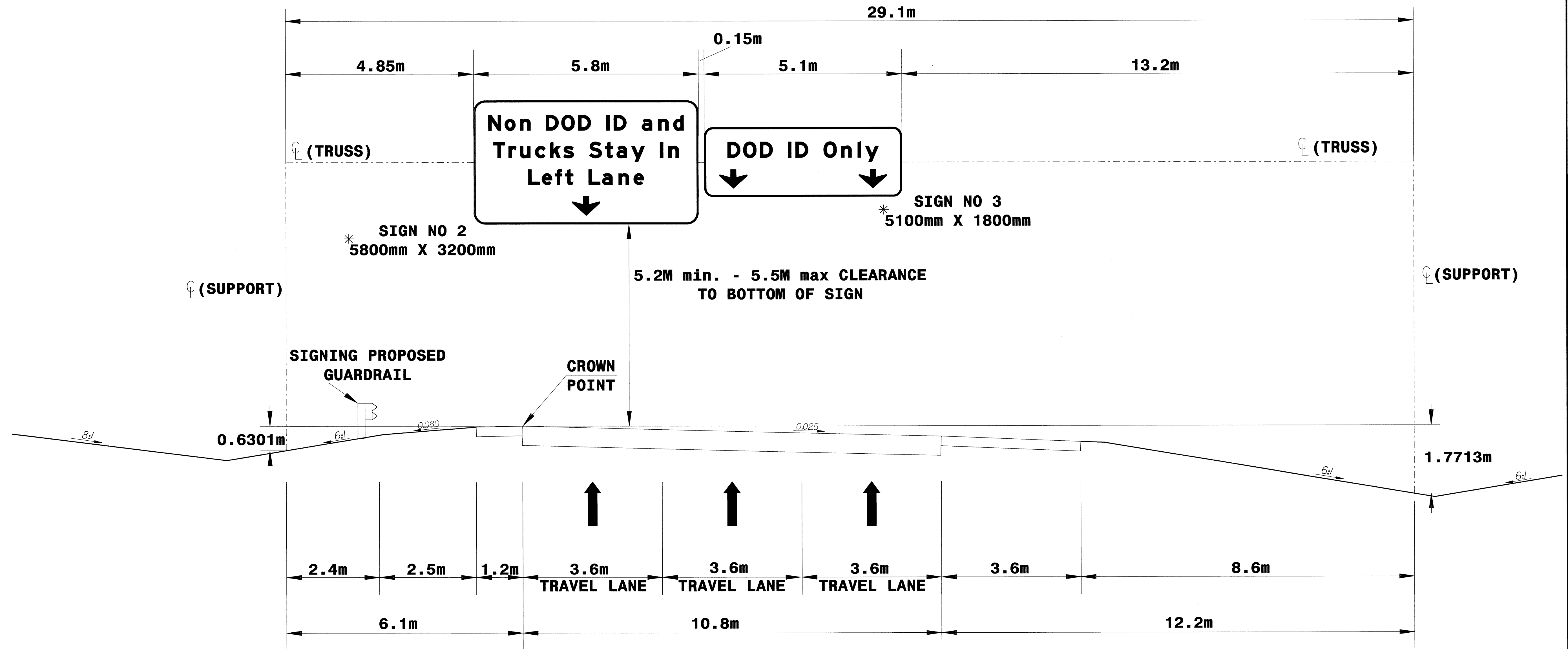
NOTES:

- IF THE CONTRACTOR BIDS ALUMIMUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 152mm AND NOT MORE THAN 610mm ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 177 KPH.



TIP NO. U-2519DA	SHEET NO. SIGN-2E
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OVERHEAD SIGN ASS'Y "B" @
STA. 16+80 - Y1 -
FAYETTEVILLE OUTER LOOP

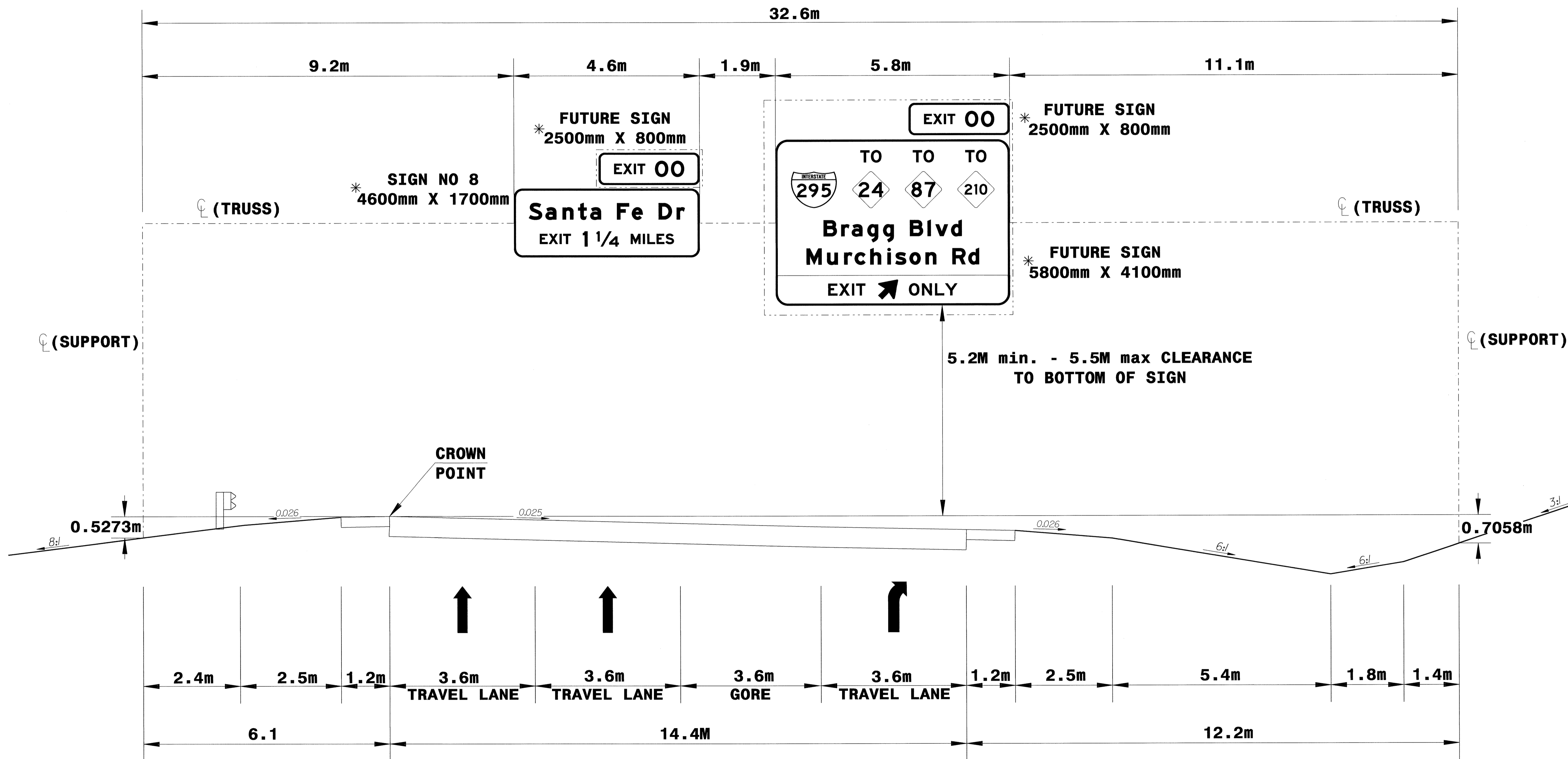
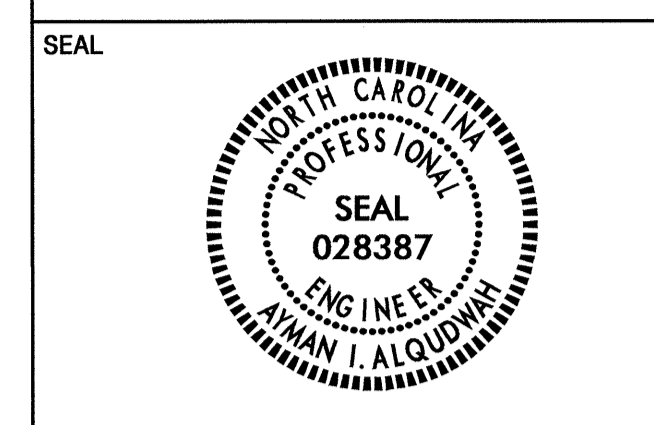
NOTES:

- 1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- 2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- 3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- 4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 152mm AND NOT MORE THAN 610mm ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- 5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 177 KPH.



TIP NO. U-2519DA	SHEET NO. SIGN-2F
APPROVED: <i>[Signature]</i>	
DATE: 8-18-11	

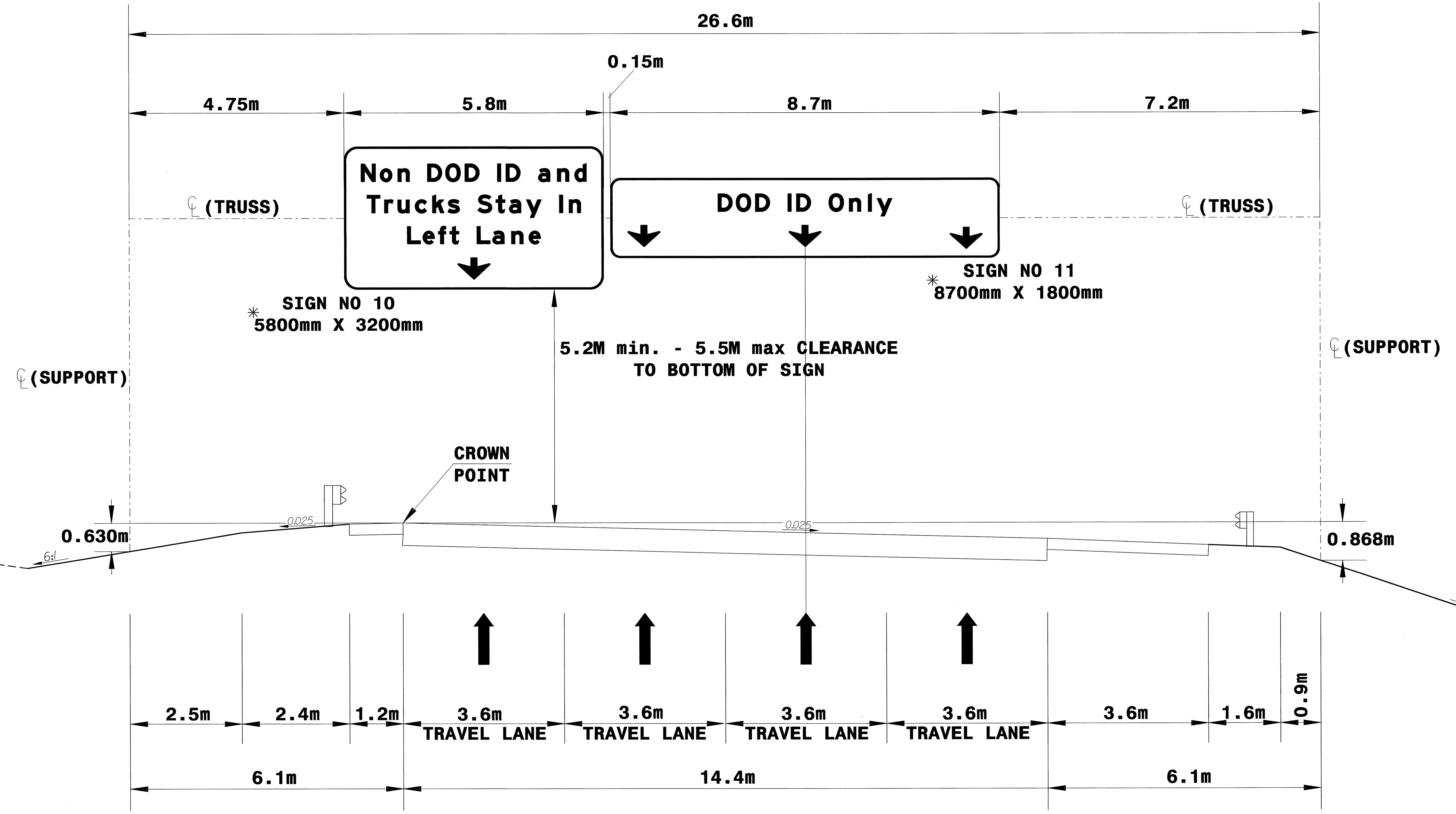


OVERHEAD SIGN ASS'Y "F" @
STA. 11+00 - Y1 -
FAYETTEVILLE OUTER LOOP

16-AUG-2011 15:42
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TIP NO. U-2519DA	SHEET NO. SIGN-2G
APPROVED: <i>[Signature]</i>	
DATE: 8-18-11	
SEAL	



NOTES:

- IF THE CONTRACTOR BIDS ALUMIMUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 152mm AND NOT MORE THAN 610mm ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 177 KPH.

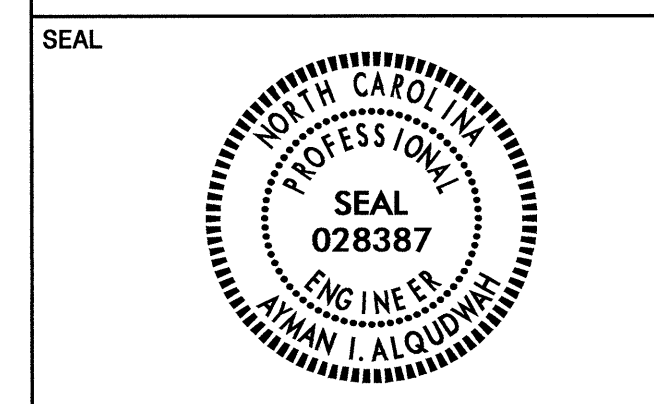
OVERHEAD SIGN ASS'Y "G" @
STA. 12+20 - Y1 -
FAYETTEVILLE OUTER LOOP

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TIP NO.	SHEET NO.
U-2519DA	SIGN-2H

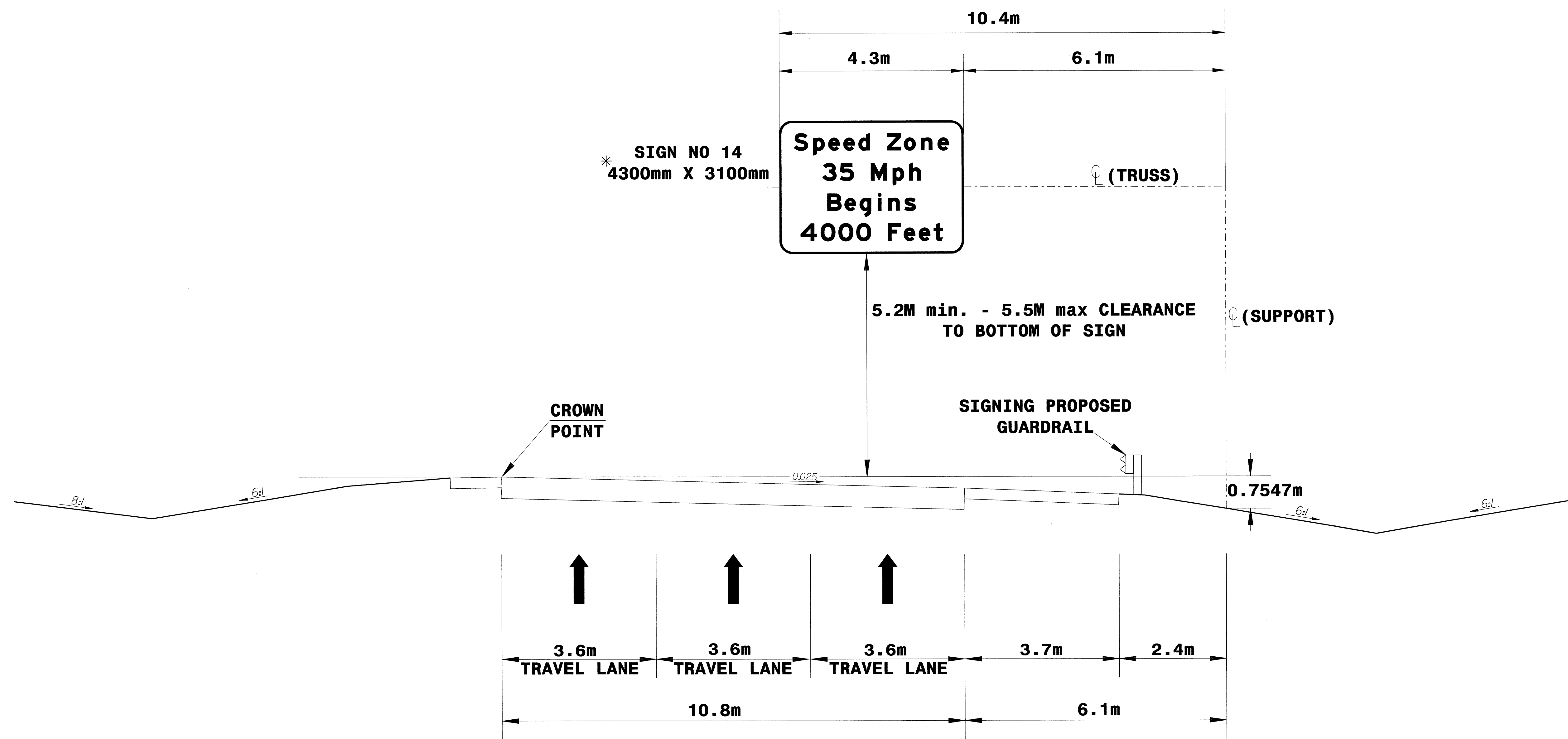
APPROVED: *[Signature]*
 DATE: 8-18-11



NOTES:

1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 152mm AND NOT MORE THAN 610mm ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

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OVERHEAD SIGN ASS'Y "J" @
 STA. 23+00 - Y1 -
 FAYETTEVILLE OUTER LOOP

I6-AUG-2011 15:45
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 User: Aiman I. Alquodhi



TIP NO. U-2519DA SHEET NO. SIGN-21

APPROVED: *[Signature]*

DATE: 8-18-11

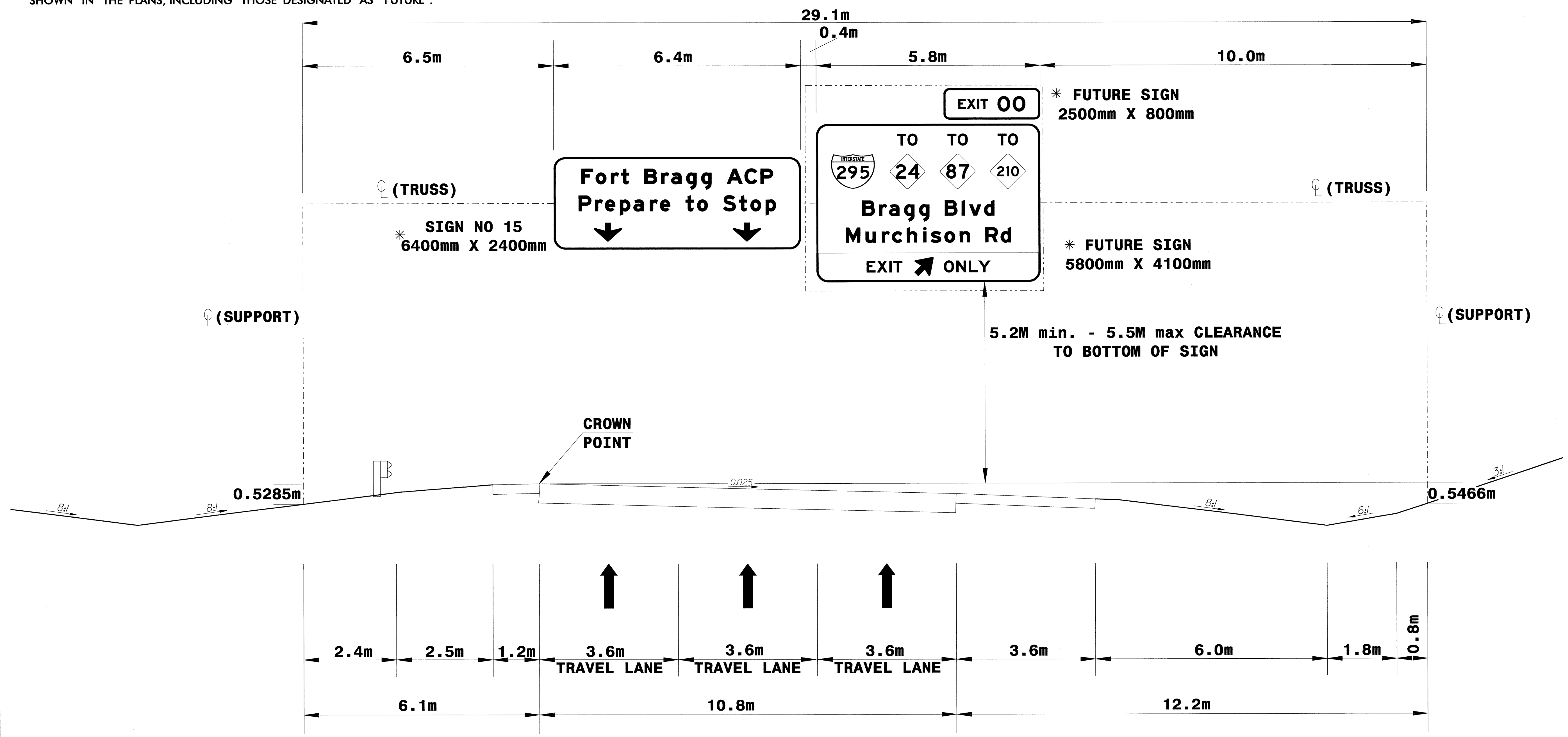
SEAL



NOTES:

- 1. IF THE CONTRACTOR BIDS ALUMIMUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- 2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- 3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- 4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 152mm AND NOT MORE THAN 610mm ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- 5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

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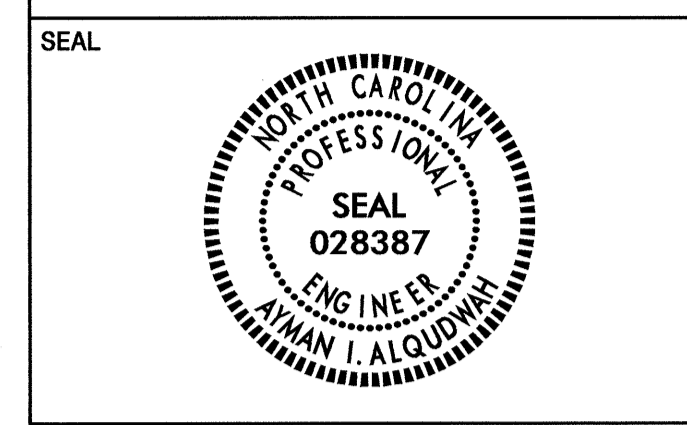


OVERHEAD SIGN ASS'Y "K" @
STA. 28+30 - Y1 -
FAYETTEVILLE OUTER LOOP

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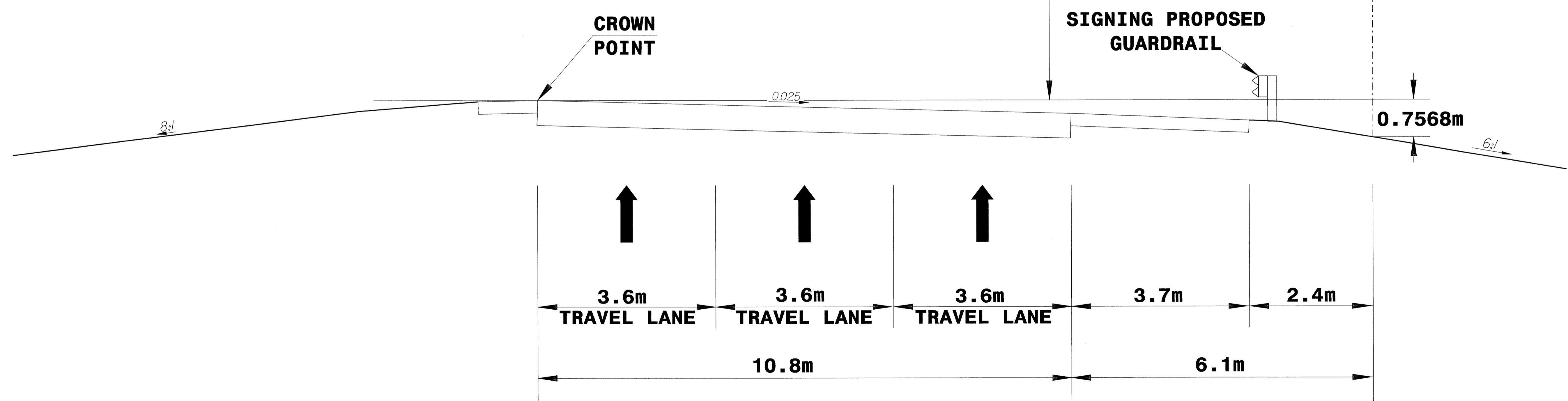
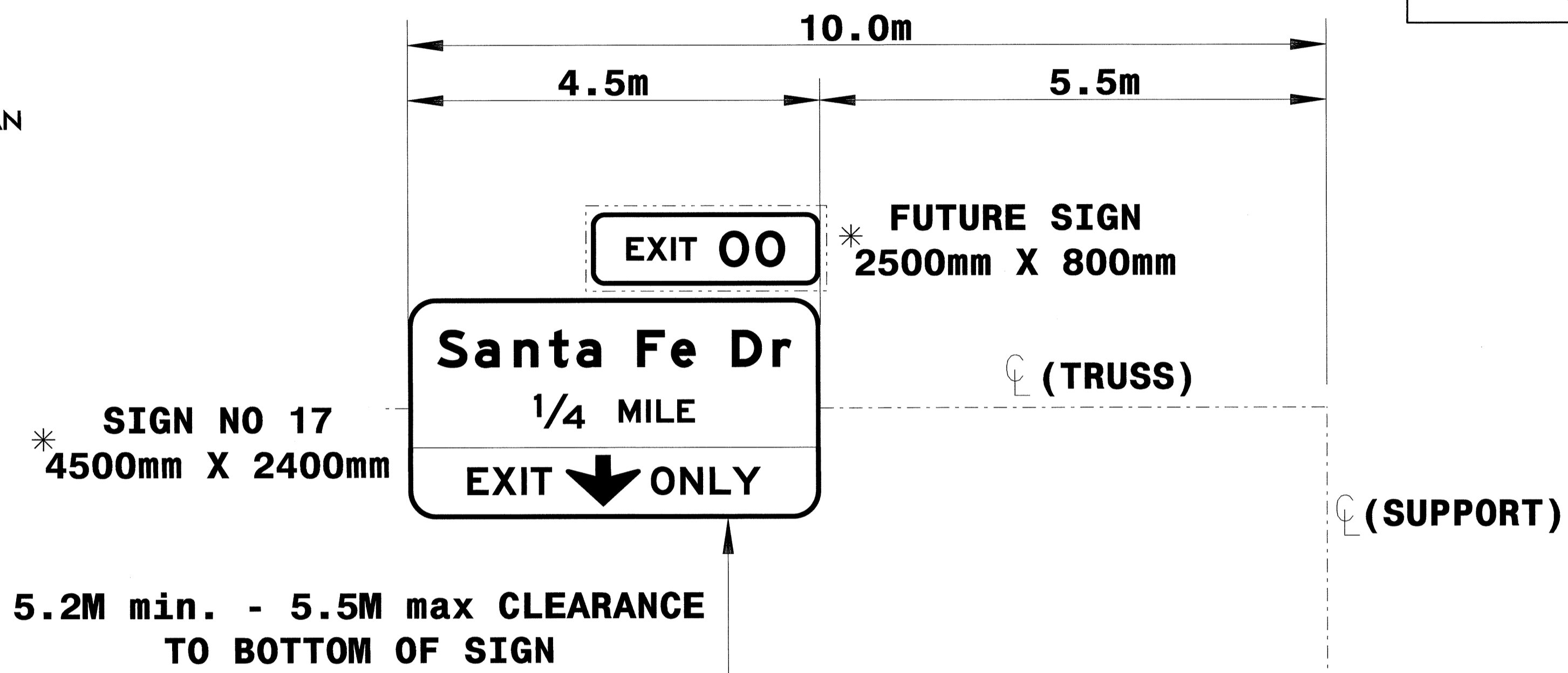
TIP NO. U-2519DA	SHEET NO. SIGN-2J
APPROVED: <i>[Signature]</i>	
DATE: 8-18-11	



NOTES:

1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 152mm AND NOT MORE THAN 610mm ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

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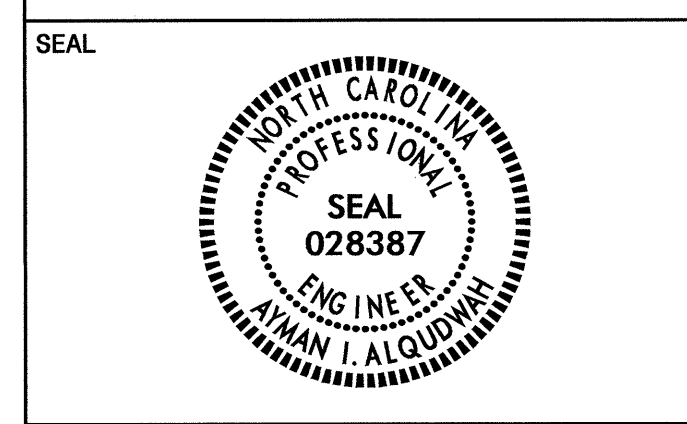


OVERHEAD SIGN ASS'Y "L" @
STA. 27+70 - Y1 -
FAYETTEVILLE OUTER LOOP

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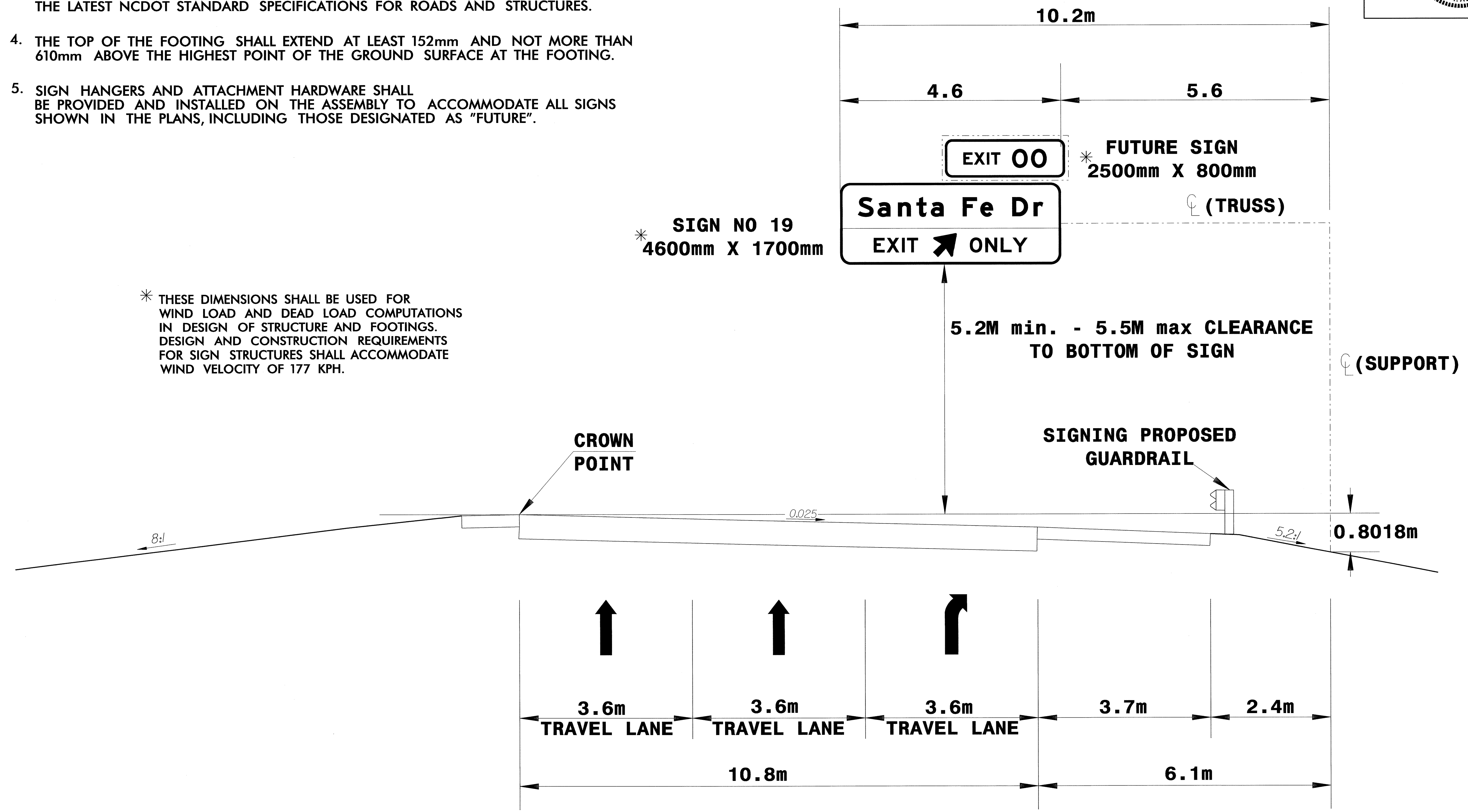
TIP NO. U-2519DA	SHEET NO. SIGN-2K
APPROVED: <i>[Signature]</i>	
DATE: 8-18-11	



NOTES:

1. IF THE CONTRACTOR BIDS ALUMIMUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
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5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

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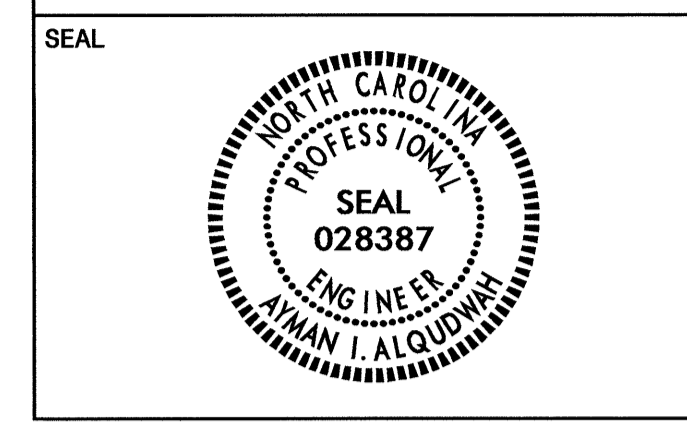


OVERHEAD SIGN ASS'Y "N" @
STA. 31+75 - Y1 -
FAYETTEVILLE OUTER LOOP

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TIP NO. U-2519DA SHEET NO. SIGN-3
 APPROVED: *[Signature]*
 DATE: 8-18-11



SIGN NUMBER: 2,10 BACKG COLOR: Brown DESIGN BY: DME CHECKED BY: DATE: Feb 23, 2011
 TYPE: A COPY COLOR: White PROJECT ID: U-2519DA DIV: 6

QUANTITY: 2

SYMBOL	X	Y	WID	HT
ARDOWN	2536	220	728	500

SIGN WIDTH: 5800mm SIGN HEIGHT: 3200mm TOTAL AREA: 18.6 Sq.m

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

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

USE NOTES: 1,2,3,4

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size	
															Text Length	
382	424	396	264	400	404	432	324	400	192	324	400	424	388	264	382	EM 2000
															5036	
510	392	296	388	388	344	264	400	408	300	380	340	400	216	264	510	EM 2000
															4780	
1410	348	348	252	208	400	348	424	388	264	1410	EM 2000					
															2980	

FILENAME: Sign designs_grading NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 8 BACKG COLOR: Green DESIGN BY: DME CHECKED BY: DATE: Feb 21, 2011
 TYPE: A COPY COLOR: White PROJECT ID: U-2519DA DIV: 6

QUANTITY: 1

SYMBOL	X	Y	WID	HT
ARDOWN				

SIGN WIDTH: 4600mm SIGN HEIGHT: 1700mm TOTAL AREA: 7.8 Sq.m

BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 50mm
 RADII: 215mm

NO. Z BARS: 2 MAT'L: 0.125" (3.2 mm) ALUMINIUM
 LENGTH: 4396.8

USE NOTES: 1,2,3,4

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size	
															Text Length	
370	412	424	384	300	264	400	368	264	400	444	200	370	EM 2000			
															3860	
710	228	268	88	188	250	113	187	549	250	300	110	230	222	203	710	E 2000
															3179	

FILENAME: Sign designs_grading NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 3 BACKG COLOR: Brown DESIGN BY: DME CHECKED BY: DATE: Feb 17, 2011
 TYPE: A COPY COLOR: White PROJECT ID: U-2519DA DIV: 6

QUANTITY: 1

SYMBOL	X	Y	WID	HT
ARDOWN	386	220	728	500
ARDOWN	3986	220	728	500

SIGN WIDTH: 5100mm SIGN HEIGHT: 1800mm TOTAL AREA: 9.2 Sq.m

BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 50mm
 RADII: 225mm

NO. Z BARS: 2 MAT'L: 0.125" (3.2 mm) ALUMINIUM
 LENGTH: 4896.8

USE NOTES: 1,2,3,4

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size
															Text Length
604	404	432	324	400	192	324	400	456	424	196	340	604	EM 2000		
															3692

FILENAME: Sign designs_Signs NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 206 BACKG COLOR: Green DESIGN BY: W. Johnson CHECKED BY: DATE: Jun 12, 2008
 TYPE: A COPY COLOR: White PROJECT ID: U-2519DA DIV: 6

QUANTITY: 1

SYMBOL	X	Y	WID	HT
ARNED	463	213	469	739

SIGN WIDTH: 1500mm SIGN HEIGHT: 1500mm TOTAL AREA: 2.3 Sq.m

BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 40mm
 RADII: 200mm

NO. Z BARS: 2 MAT'L: 0.125" (3.2 mm) ALUMINIUM
 LENGTH: 1296.8

USE NOTES: 1,2

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter						Series/Size
						Text Length
288	264	324	114	222	288	EM 2000
						924

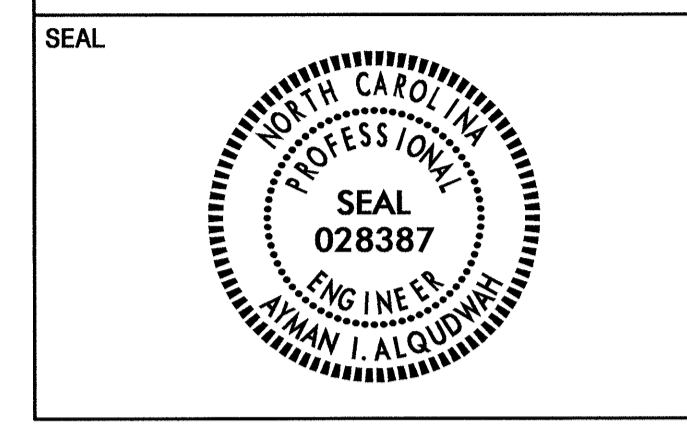
FILENAME: ground_sourced NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

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 Revision: 11/24/2011



TIP NO. U-2519DA SHEET NO. SIGN-3A
 APPROVED: *[Signature]*
 DATE: 8-18-11



SIGN NUMBER: 11
TYPE: A
QUANTITY: 1
BACKG COLOR: Brown
COPY COLOR: White
DESIGN BY: DME
CHECKED BY: DIV: 6
DATE: Feb 17, 2011
PROJECT ID: U-2519DA

SYMBOL	X	Y	WID	HT
ARNDOWN	386	245	728	500
ARNDOWN	3986	245	728	500
ARNDOWN	7586	195	728	500

SIGN WIDTH: 8700mm
 HEIGHT: 1800mm
 TOTAL AREA: 15.7 Sq.m

BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 50mm
 RADII: 225mm

NO. Z BARS: 2
 LENGTH: 8496.8
 MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- 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
EM 2000	3892

FILENAME: Sign designs Sheets
 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 15
TYPE: A
QUANTITY: 1
BACKG COLOR: Brown
COPY COLOR: White
DESIGN BY: DME
CHECKED BY: DIV: 6
DATE: Feb 17, 2011
PROJECT ID: U-2519DA

SYMBOL	X	Y	WID	HT
ARNDOWN	1036	200	728	500
ARNDOWN	4636	200	728	500

SIGN WIDTH: 6400mm
 HEIGHT: 2400mm
 TOTAL AREA: 15.4 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

USE NOTES: 1,2,3,4

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	4960
EM 2000	5108

FILENAME: Sign designs Sheets
 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 14
TYPE: A
QUANTITY: 1
BACKG COLOR: Brown
COPY COLOR: White
DESIGN BY: DME
CHECKED BY: DIV: 6
DATE: Feb 17, 2011
PROJECT ID: U-2519DA

SYMBOL	X	Y	WID	HT
ARNDOWN				

SIGN WIDTH: 4300mm
 HEIGHT: 3100mm
 TOTAL AREA: 13.3 Sq.m

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

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

USE NOTES: 1,2,3,4

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

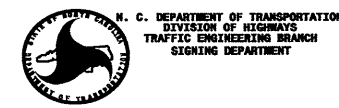
Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	3612
EM 2000	2292
EM 2000	2060
EM 2000	3312

FILENAME: Sign designs Sheets
 NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

I6-AIG-2011/524
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SIGN NUMBER: 102
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 3900mm
 HEIGHT: 1600mm
 TOTAL AREA: 6.2 Sq.m
 BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 40mm
 RADII: 200mm
 NO. Z BARS: 2
 LENGTH: 3696.8

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT

DESIGN BY: DME
 PROJECT ID: U-2519DA
 CHECKED BY:
 DIV: 6
 DATE: Feb 17, 2011

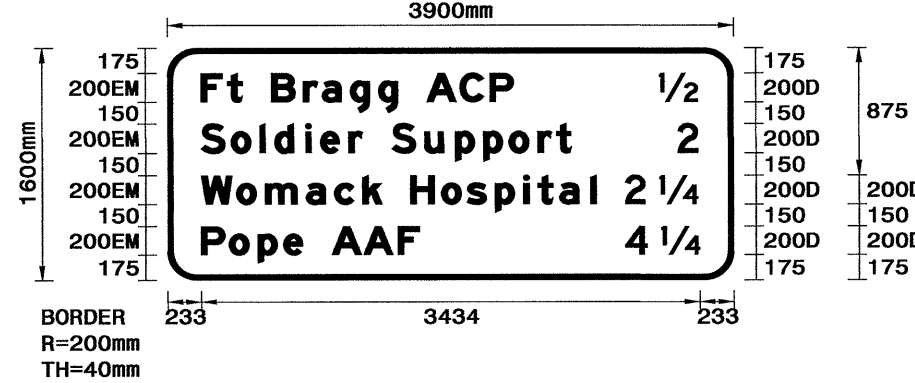
MAT'L: 0.125" (3.2 mm) ALUMINIUM

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

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	2152
D 2000	264
EM 2000	2550
D 2000	136
EM 2000	2720
D 2000	500
EM 2000	1502
D 2000	514

Spacing Factor is 1 unless specified otherwise



LETTER POSITIONS

Series/Size	Text Length
EM 2000	2152
D 2000	264
EM 2000	2550
D 2000	136
EM 2000	2720
D 2000	500
EM 2000	1502
D 2000	514

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

SIGN NUMBER: 19
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 4600mm
 HEIGHT: 1700mm
 TOTAL AREA: 7.8 Sq.m
 BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 50mm
 RADII: 215mm
 NO. Z BARS: 2
 LENGTH: 4396.8

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARSHRT	1933	153	550	618

DESIGN BY: none
 PROJECT ID: U-2519DA
 CHECKED BY:
 DIV: 6
 DATE: Jul 29, 2008

MAT'L: 0.125" (3.2 mm) ALUMINIUM

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



LETTER POSITIONS

Series/Size	Text Length
EM 2000	3860
E 2000	918
E 2000	1197

Spacing Factor is 1 unless specified otherwise

FILENAME: Sign designs NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 101
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 3000mm
 HEIGHT: 1400mm
 TOTAL AREA: 4.2 Sq.m
 BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 50mm
 RADII: 175mm
 NO. Z BARS: 2
 LENGTH: 2796.8

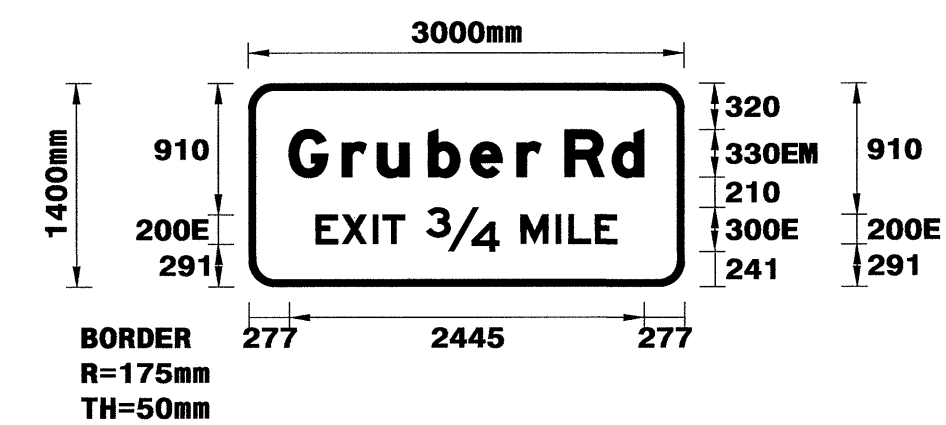
BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT

DESIGN BY: none
 PROJECT ID: U-2519DA
 CHECKED BY:
 DIV: 6
 DATE: Feb 18, 2011

MAT'L: 0.125" (3.2 mm) ALUMINIUM

USE NOTES: 1,2,3,4
 1. Legend and border shall be direct applied Grade B 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 B sheeting.



LETTER POSITIONS

Series/Size	Text Length
EM 2000	2445
E 2000	2074

Spacing Factor is 1 unless specified otherwise

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

SIGN NUMBER: 17
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 4500mm
 HEIGHT: 2400mm
 TOTAL AREA: 10.8 Sq.m
 BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 50mm
 RADII: 300mm
 NO. Z BARS: 3
 LENGTH: 4296.8

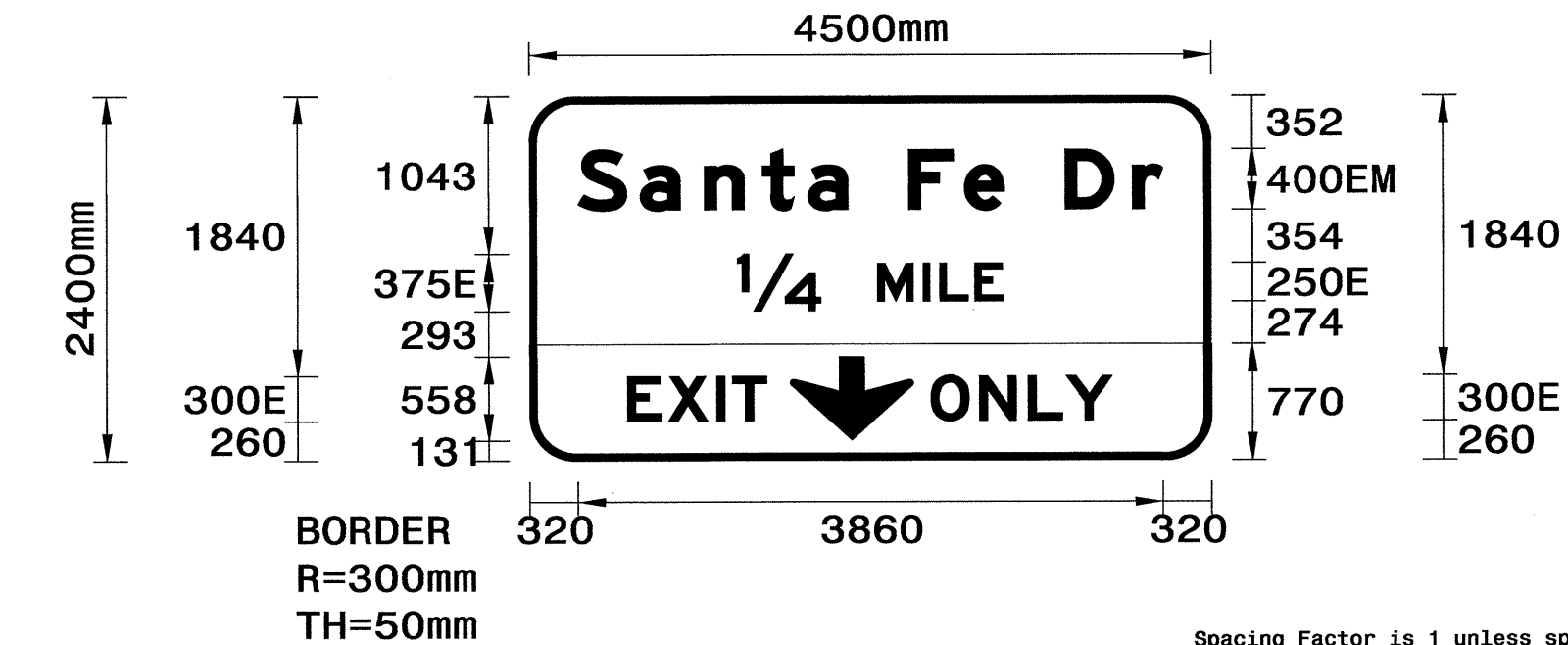
BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARDOWN	1719	131	813	558

DESIGN BY: none
 PROJECT ID: U-2519DA
 CHECKED BY:
 DIV: 6
 DATE: Jul 29, 2008

MAT'L: 0.125" (3.2 mm) ALUMINIUM

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



LETTER POSITIONS

Series/Size	Text Length
EM 2000	3860
E 2000	1752
E 2000	918
E 2000	1197

Spacing Factor is 1 unless specified otherwise

FILENAME: Sign designs NORTH CAROLINA D.O.T. SIGN DETAIL



TIP NO. U-2519DA SHEET NO. SIGN-3B
 APPROVED: [Signature]
 DATE: 8-18-11



TYPE "A" & "B" SIGNS

16-AUG-2011 15:26 P:\TIPF-04\2519DA\Sign_Designs\Sign_Designs\grading.dgn



TIP NO. U-2519DA	SHEET NO. SIGN-3C
APPROVED: <i>[Signature]</i>	
DATE: 8-18-11	
SEAL	



SIGN NUMBER: 301 TYPE: D QUANTITY: 1 SIGN WIDTH: 1700mm HEIGHT: 400mm TOTAL AREA: 0.7 Sq.m BORDER TYPE: FLUSH RECESS: 0mm WIDTH: 20mm RADII: 50mm NO. Z BARS: LENGTH:	BACKG COLOR: Green COPY COLOR: White SYMBOl X Y WID HT <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																										DESIGN BY: none PROJECT ID: ID CHECKED BY: DIV: 6 DATE: Aug 06, 2008

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

Spacing Factor is 1 unless specified otherwise

Letter positions											Series/Size	
Letter spacings are to start of next letter											Text Length	
B	E	A	V	E	R	C	R	E	E	K	D 2000	
110	127	105	136	136	118	102	150	135	128	118	110	1481

FILENAME: Sign designs NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 302 TYPE: D QUANTITY: 1 SIGN WIDTH: 2000mm HEIGHT: 700mm TOTAL AREA: 1.4 Sq.m BORDER TYPE: FLUSH RECESS: 0mm WIDTH: 20mm RADII: 76mm NO. Z BARS: LENGTH:	BACKG COLOR: Green COPY COLOR: White SYMBOl X Y WID HT <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																										DESIGN BY: none PROJECT ID: U-2519DA CHECKED BY: DIV: 6 DATE: Jul 01, 2008

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

Spacing Factor is 1 unless specified otherwise

Letter positions											Series/Size	
Letter locations are panel edge to lower left corner											Text Length	
E	N	T	E	R	I	N	G				D 2000	
549	668	792	908	1026	1154	1214	1349				902	
F	O	R	T				B	R	A	G	G	D 2000
179	329	515	667	791	991	1161	1313	1509	1685	1642		

FILENAME: X-0002C_Ground Mounted NORTH CAROLINA D.O.T. SIGN DETAIL

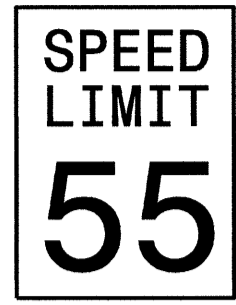
I6-AUG-2011 08:08
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TYPE "D" SIGNS



TIP NO. U-2519DA	SHEET NO. SIGN-3D
APPROVED: <i>[Signature]</i>	
DATE: 8-18-11	
SEAL	

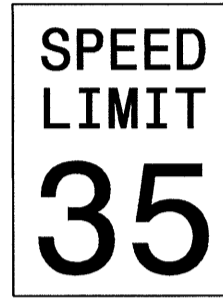
401 QUANTITY REQ'D 2



1219 X 1524
R2-1

TWO "U" POSTS PER SIGN

402 QUANTITY REQ'D 2



914 X 1219
R2-1

TWO "U" POSTS PER SIGN

411 QUANTITY REQ'D 2



914 X 914
W3-5

MOUNT ON EXISTING SUPPORTS

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

TYPE "E" SIGNS

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



TIP NO. U-2519DA SHEET NO. SIGN-3E

APPROVED: *[Signature]*

DATE: 8-18-11



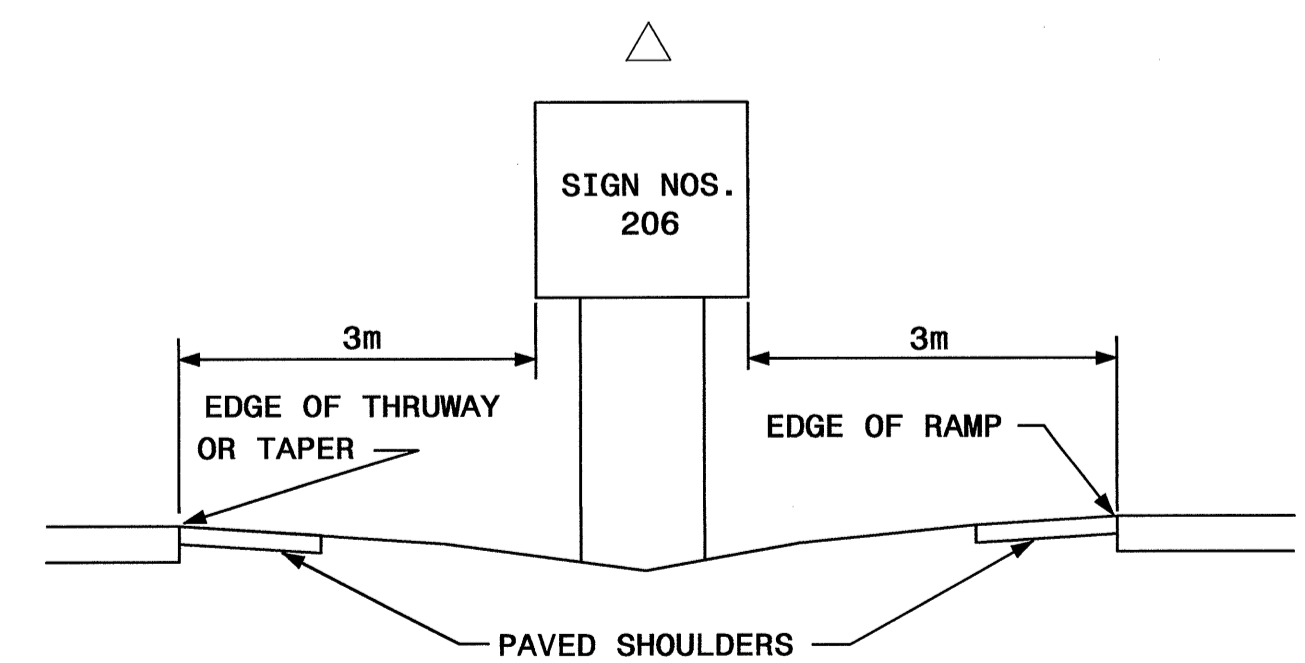
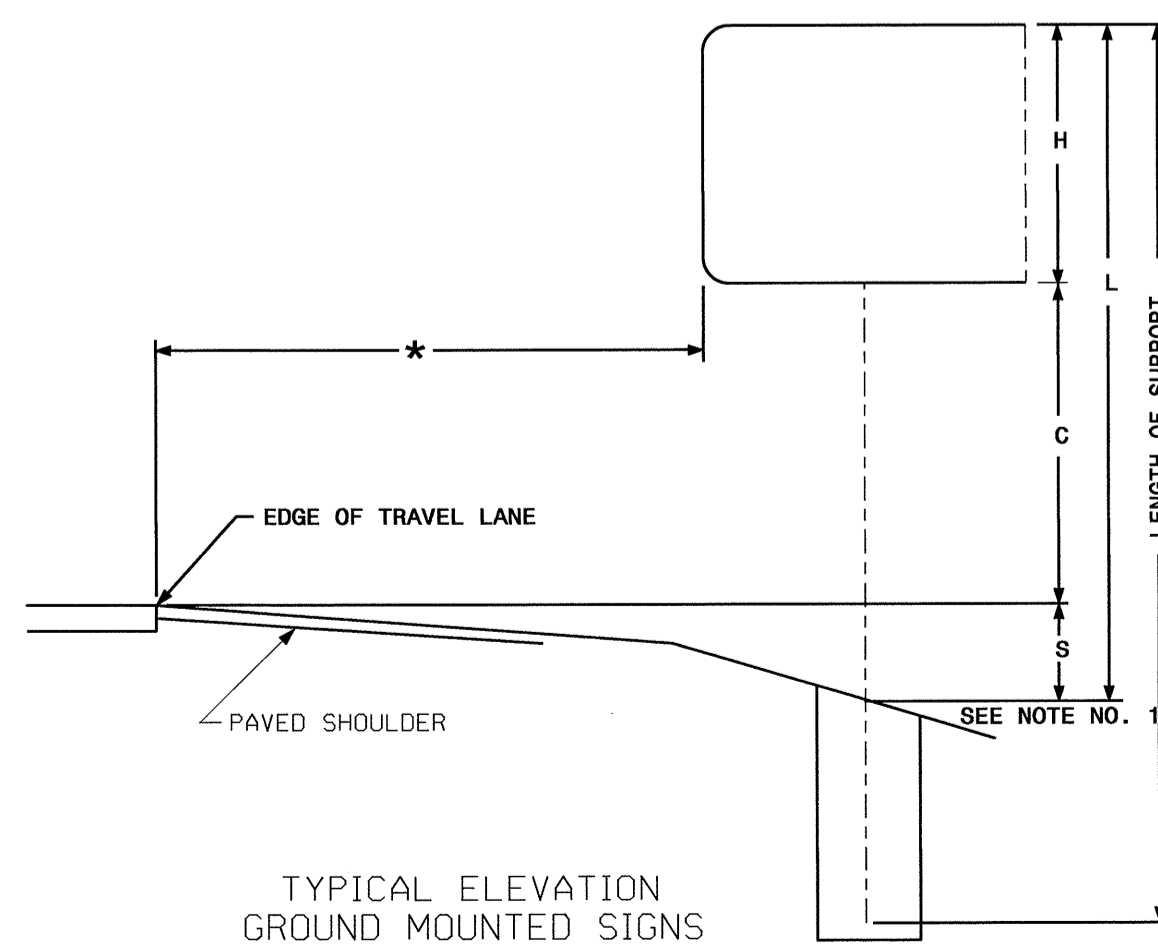
SIGN NO.	SIGN TYPE	SIGN SIZE (mm)			ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (m)	LENGTH (m)			LEFT SUPPORT (m)			CENTER SUPPORT (m)			RIGHT SUPPORT (m)			FOOTING DIAMETER (m)	FOOTING DEPTH (m)	B/A SUPPORT WEIGHTS (kg)	SIMPLE SUPPORT WEIGHTS (kg)	REINF. FTGS. (c.m.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
		w	x	h								SNS H	MTG HT C	EMBED-MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH						
101	A	3000	X	1400	18+80 Y1	2	S100x11	S	N/A	N/A	3.66	1.40	2.13	1.22	0.50	4.03	5.25	0.00	0.00	0.00	1.35	4.88	6.10	0.4572	1.3716	0.00	130.06	0.45	
102	A	3900	X	1600	14+00 Y1	2	W150x13	S	N/A	N/A	5.50	1.60	2.13	1.37	0.57	4.31	5.68	0.00	0.00	0.00	1.33	5.07	6.44	0.4572	1.524	0.00	162.29	0.50	
206	A	1500	X	1500	10+60 -RP3C	2	S75x8.5	BA	N/A	N/A	△	1.50	2.13	1.07	0.15	3.78	4.85	0.00	0.00	0.00	0.15	3.78	4.85	0.3048	1.2192	98.40	0.00	0.18	

TOTAL 98.40 TOTAL 292.36 TOTAL 1.13

USE: 99 293 2

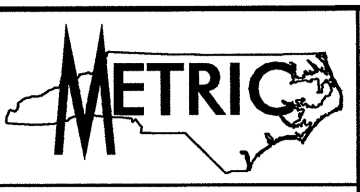
NOTES

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.

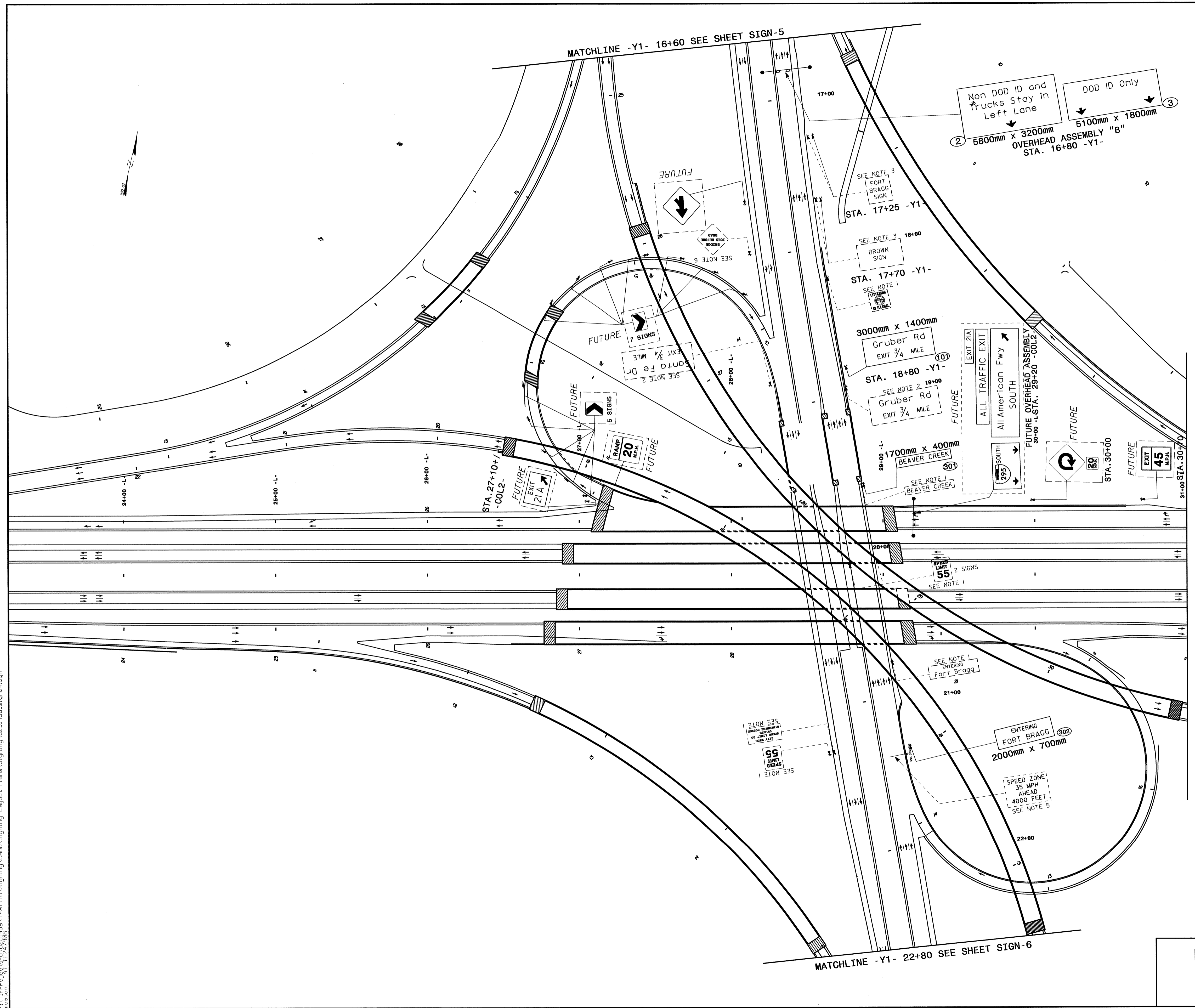


SUPPORTS

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TIP NO. U-2519DA	SHEET NO. SIGN-4
APPROVED: <i>[Signature]</i>	
DATE: 8-18-11	
SEAL	

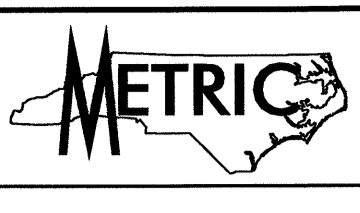


FUTURE

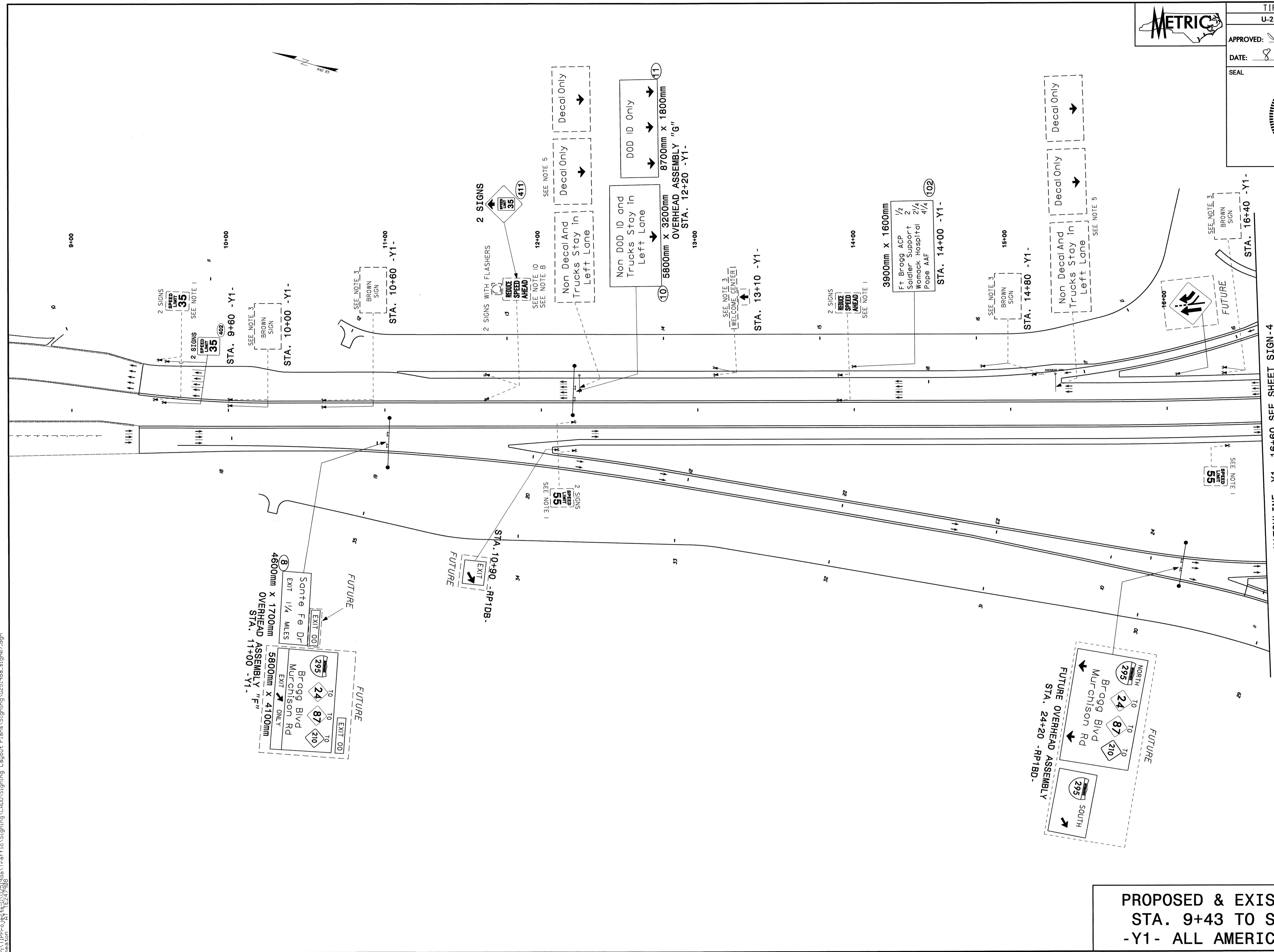
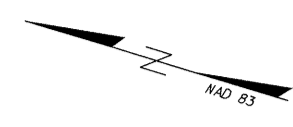
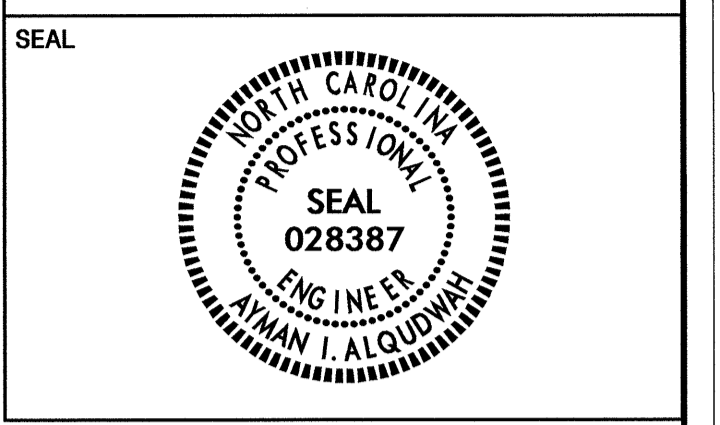
**PROPOSED & EXISTING SIGNS
STA. 16+60 TO STA. 22+80
-Y1- ALL AMERICAN FREEWAY**

DME

16-AUG-2011 05:55
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 16-AUG-2011 05:55
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TIP NO. U-2519DA SHEET NO. SIGN-5
 APPROVED: *[Signature]*
 DATE: 8-18-11



MATCHLINE -Y1- 16+60 SEE SHEET SIGN-4

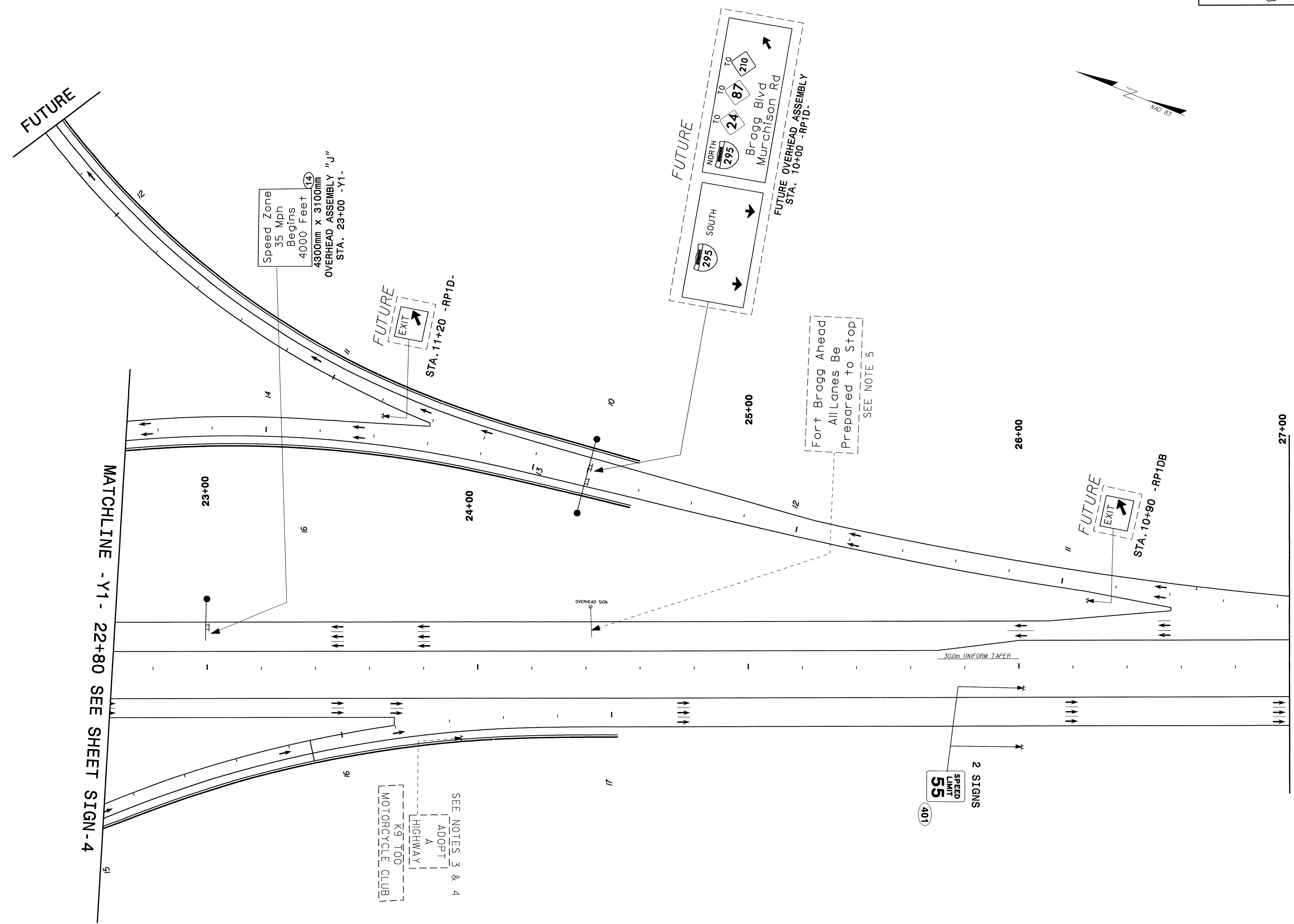
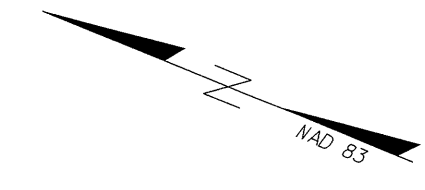
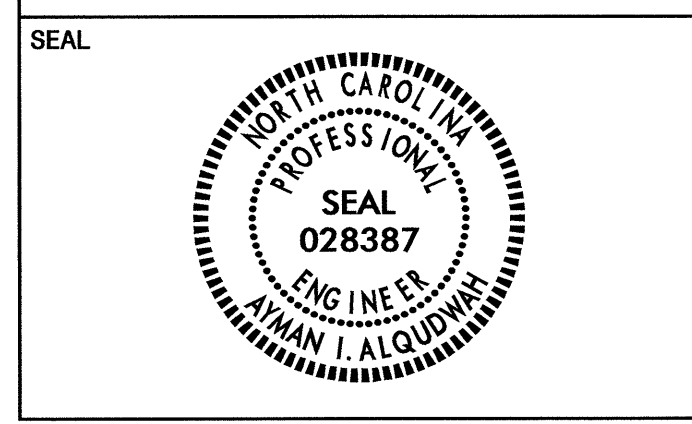
PROPOSED & EXISTING SIGNS
 STA. 9+43 TO STA. 16+60
 -Y1- ALL AMERICAN FREEWAY

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 11/11/11 11:22:48 AM
 mason

DME



TIP NO. U-2519DA	SHEET NO. SIGN-6
APPROVED: <i>[Signature]</i>	
DATE: 8-18-11	



MATCHLINE -Y1- 22+80 SEE SHEET SIGN-4

MATCHLINE -Y1- SEE SHEET SIGN-7

Speed Zone
35 mph
Begins
4000 Feet
4300mm x 3100mm
OVERHEAD ASSEMBLY "J"
STA. 23+00 -Y1-

Fort Bragg Ahead
All Lanes Be
Prepared to Stop
SEE NOTE 5

SEE NOTES 3 & 4
ADAPT
A
HIGHWAY
K9 T00
MOTORCYCLE CLUB

2 SIGNS
SPEED
LIMIT
55
401

PROPOSED & EXISTING SIGNS
STA. 22+80 TO STA. 27+00
-Y1- ALL AMERICAN FREEWAY

I:\Projects\2011\557
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 Aayan I. Alquodhi

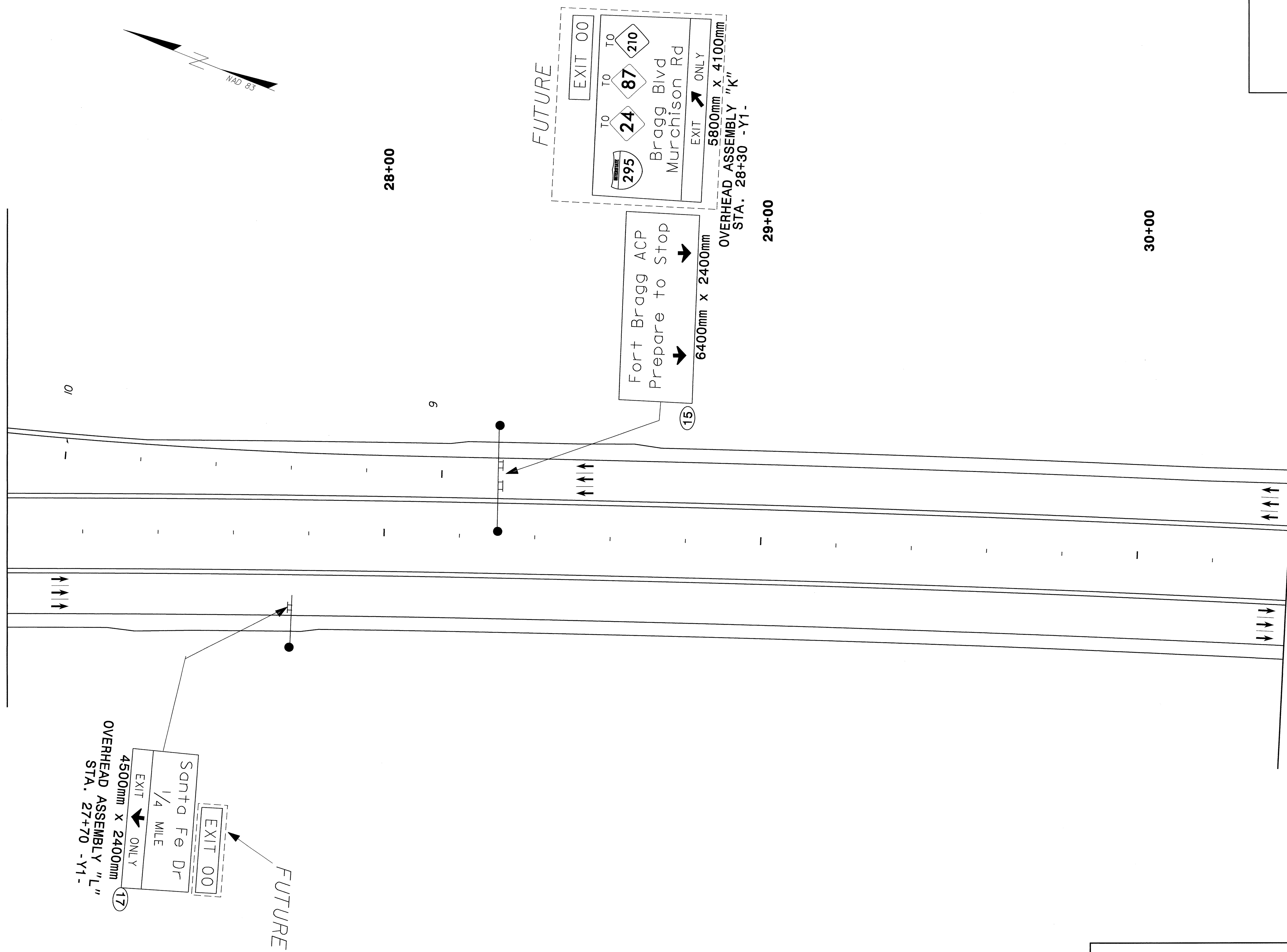
DME



TIP NO. U-2519DA	SHEET NO. SIGN-7
APPROVED: <i>[Signature]</i>	
DATE: 8-18-11	
SEAL	

MATCHLINE -Y1- SEE SHEET SIGN-6

MATCHLINE -Y1- SEE SHEET SIGN-8



FUTURE
 EXIT 00
 Santa Fe Dr
 1/4 MILE
 EXIT ONLY
 4500mm x 2400mm
 OVERHEAD ASSEMBLY "L"
 STA. 27+70 -Y1-
 (17)

FUTURE
 EXIT 00
 TO 24 TO 87 TO 210
 Bragg Blvd
 Murchison Rd
 EXIT ONLY
 5800mm x 4100mm
 OVERHEAD ASSEMBLY "K"
 STA. 28+30 -Y1-
 (15)

Fort Bragg ACP
 Prepare to Stop
 6400mm x 2400mm
 (15)

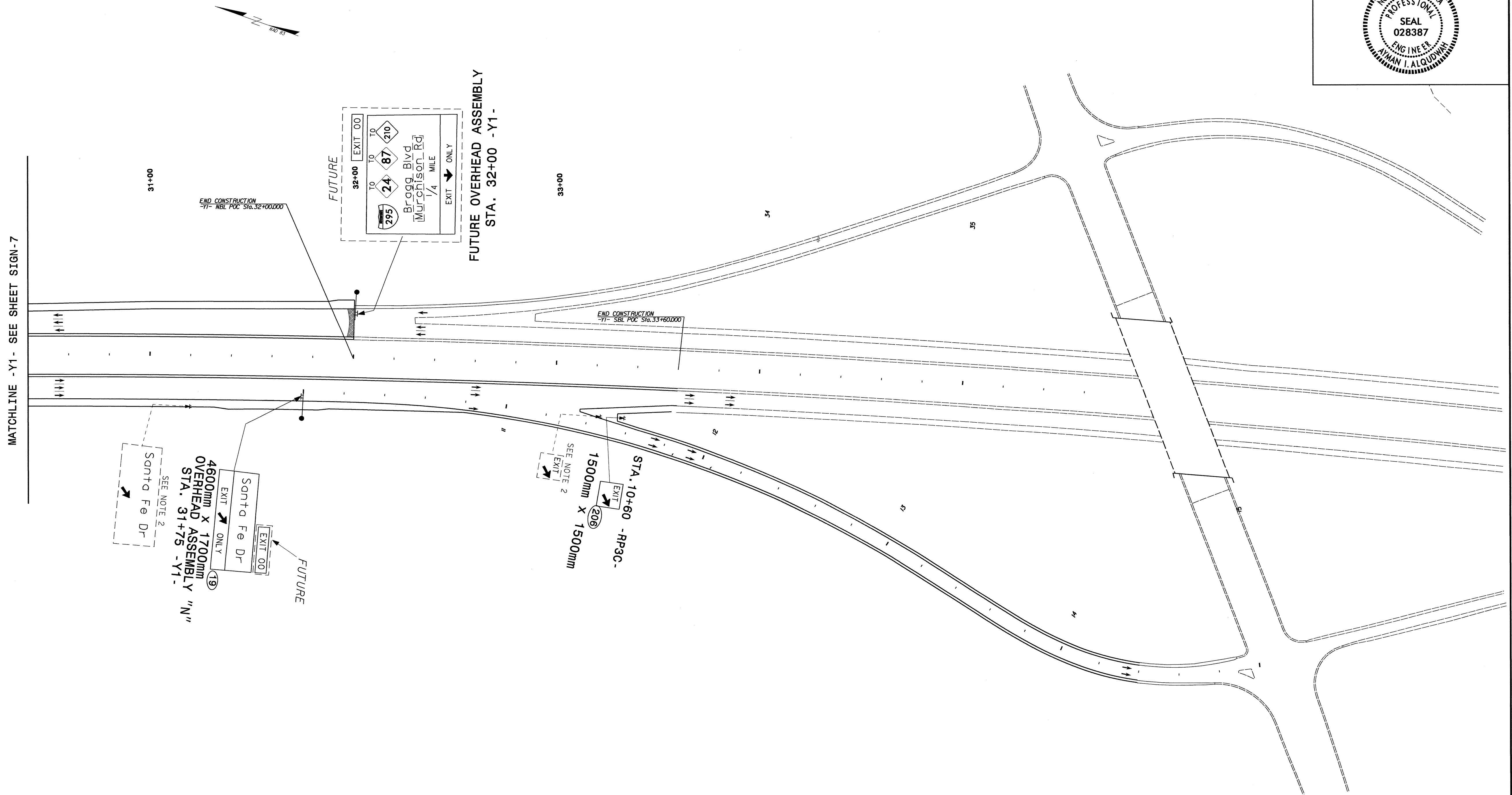
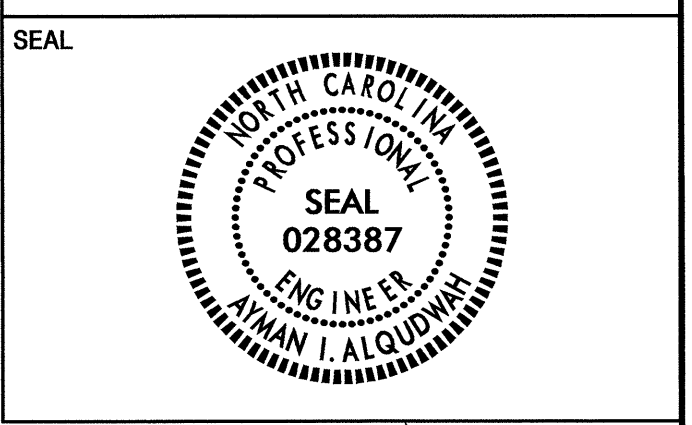
PROPOSED SIGNS
 STA. 27+00 TO STA. 30+40
 -Y1- ALL AMERICAN FREEWAY

I7-AUG-2011 09:51
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 Reason: All Text 1788

DME



TIP NO. U-2519DA	SHEET NO. SIGN-8
APPROVED: <i>[Signature]</i>	
DATE: 8-18-11	



PROPOSED & EXISTING SIGNS
STA. 30+40 TO STA. 33+60
-Y1- ALL AMERICAN FREEWAY

18-AUG-2011 15:58
P:\TIP-U-2519DA\Traffic\Signing\CADD\Signing Layout Plans\Signing Layout Plans\Signing\2519da_sign10.dgn
User: j1111111

DME