


**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
ALAMANCE COUNTY**

**LOCATION: INTERCHANGE IMPROVEMENTS AT I-40 /I-85  
AND SR 1007 (MEBANE OAKS RD) IN MEBANE**

PROJECT REFERENCE NO. I-5711	SHEET NO. SIGN-1
APPROVED: _____	
DATE: _____	
SEAL	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**T.I.P.: I-5711**

**CONTRACT: C204352**

**GENERAL NOTES**

- . SIGNS FURNISHED BY STATE
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON WOOD OR "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

**SUMMARY OF QUANTITIES**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.		
4048000000	902	2	C.Y.
4054000000	902	1	C.Y.
4057000000	SP	36	C.Y.
4060000000	903	1886	LB.
4066000000	903	317	LB.
4072000000	903	900	L.F.
4096000000	904	4	EA.
4102000000	904	51	EA.
4108000000	904	2	EA.
4109000000	904	4	EA.
4110000000	904	6	EA.
4110000000	904	1	EA.
4116100000	904	1	EA.
4082100000	906	1	L.S.
4082100000	906	1	L.S.
4149000000	907	1	EA.
4152000000	907	2	EA.
4155000000	907	56	EA.
4158000000	907	2	EA.
4192000000	907	1	EA.

**ROADWAY STANDARD DRAWING**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

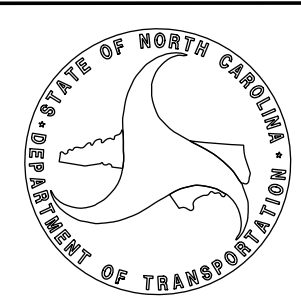
STD. NO.	TITLE
901.10	TYPE 'A' SIGNS
901.20	TYPE 'B' SIGNS
901.50	ARROWS AND SHIELDS
901.70	SIGN STRINGERS AND SUPPORT SPACING
901.80	SIGN MOUNTING DETAILS - FOR TYPE A AND TYPE B SIGNS
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.30	SUPPLEMENTAL SIGN MOUNTING
904.50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

**INDEX**

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2-2A	REVISED SIGNING ROADWAY STANDARD DRAWINGS
SIGN-3	SUPPORT INFORMATION
SIGN-3A & 3B	STRUCTURE LINE DRAWING
SIGN-4	E AND F SHEET
SIGN-5 & 5A	OVERHEAD SIGN DESIGNS
SIGN-5B-5D	GROUND MOUNTED SIGN DESIGNS
SIGN-6-6A	SIGNING PLAN SHEET

PLAN REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT


KELVIN L. JORDAN SIGNING & DELINEATION REGIONAL ENGINEER  
ASHLEY K. MATTHEWS, PE SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PLAN PREPARED BY:

ZHAOLONG (GAVIN) TENG, PE, PTOE PROJECT MANAGER

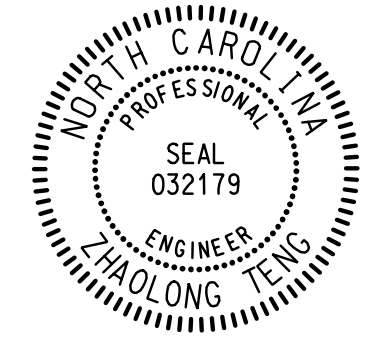
**ACCELERATE ENGINEERING, PLLC**

 875 Walnut Street, Suite 316  
Cary, NC 27511  
Tel: 919.263.5678 Fax: 919.263.5687  
NC License No. P-1442

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

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RALEIGH, N.C.  
**2-19**

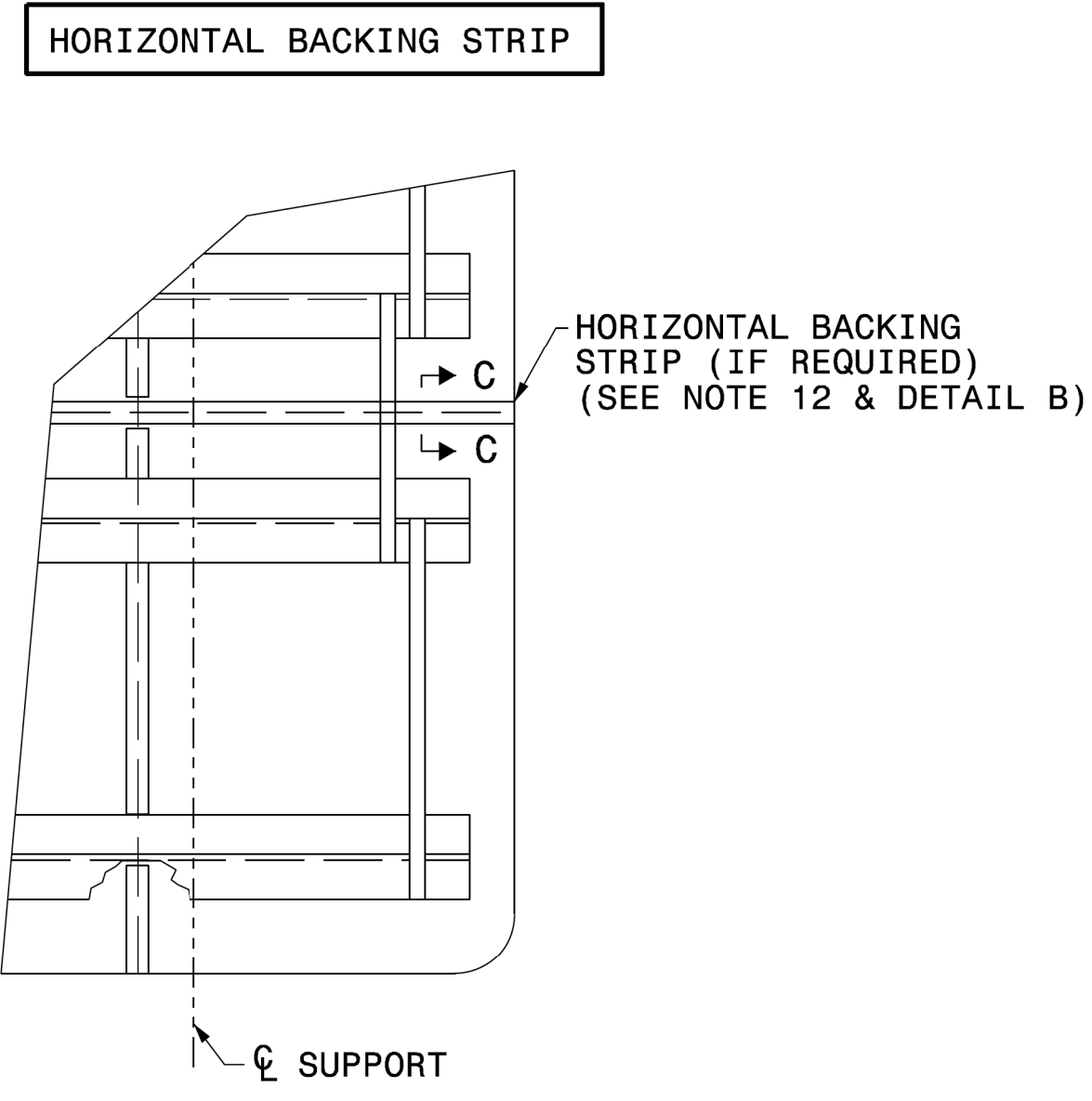
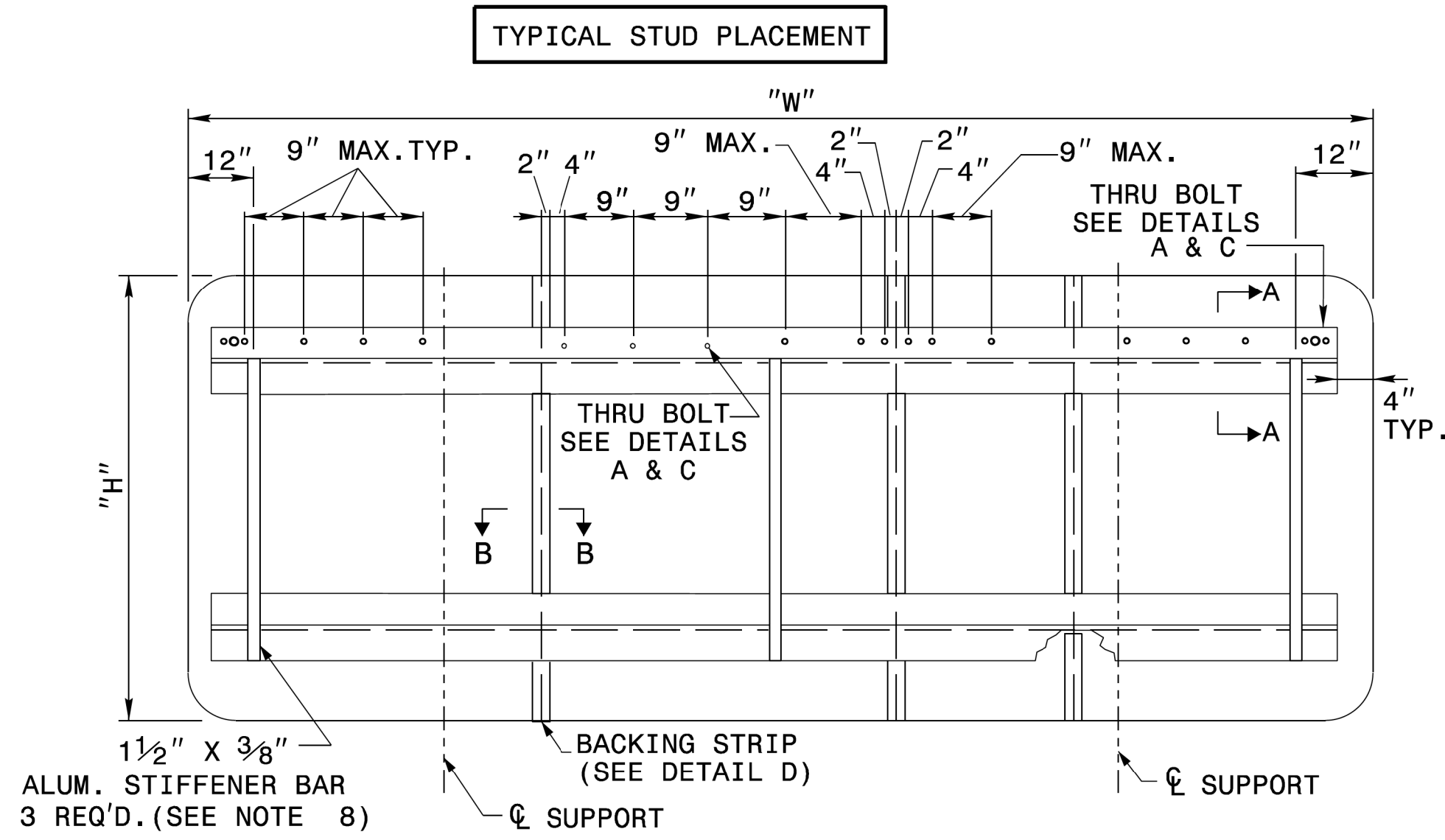
ENGLISH DETAIL DRAWING FOR  
**TYPE 'A' SIGNS**  
WELDED STUD CONSTRUCTION

SHEET 1 OF 2  
**901D10**

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ENGLISH DETAIL DRAWING FOR  
**TYPE 'A' SIGNS**  
WELDED STUD CONSTRUCTION

SHEET 1 OF 2  
**901D10**

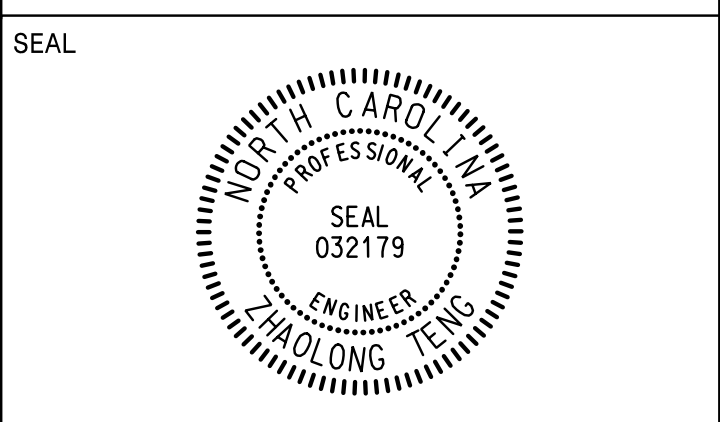


**NOTES:**

- USE THE NUMBER AND SIZE OF SUPPORTS SHOWN ON THE SUPPORT CHART IN PROJECT PLANS.
- FABRICATE SIGN PANEL SECTIONS WITH SHEETS 4'-0" WIDE. WHEN FABRICATING SIGNS WHICH ARE NOT MULTIPLES OF 4'-0" IN WIDTH, DO NOT CUT MORE THAN TWO SHEETS TO LESS THAN 4'-0" IN WIDTH. THESE PANELS SHALL NOT BE LESS THAN 1'-0" IN WIDTH.
- SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, FOR TYPE OF MATERIAL TO BE USED FOR SIGN PANELS, HANGER ASSEMBLIES, AND SUPPORTS.
- USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS.
- SEE ROADWAY STANDARD 904.20 WHEN TYPE "B" SECONDARY SIGN MOUNTING IS REQUIRED.
- DETAILS FOR TYPE "A" SECONDARY SIGNS SHALL BE THE SAME AS FOR TYPE "A" SIGNS.
- THE VERTICAL DIMENSION BETWEEN PRIMARY AND SECONDARY SIGNS IS TWO (2) INCHES.
- ADJUST STIFFENERS TO AVOID CONFLICT WITH SUPPORTS.
- SEE ROADWAY STANDARD 901.70 FOR SUPPORT AND "Z" BAR SPACING.
- FABRICATE SIGNS TALLER THAN 12'-0" AS TWO SEPARATE SIGNS WITH A HORIZONTAL SPLICE. LOCATE STRINGERS ON EACH SECTION OF THE SIGN BY THE SIGN STRINGER CHART. (SEE ROADWAY STANDARD 901.70)
- FABRICATE SIGNS TALLER THAN 12'-0" BUT SHORTER THAN 14'-6" WITH A HORIZONTAL SPLICE LOCATED 7'-0" FROM BOTTOM OF SIGN.
- FABRICATE SIGNS 14'-6" TALL AND TALLER WITH A HORIZONTAL SPLICE. LOCATE THE SPLICE AT LEAST HALF OF THE SIGN HEIGHT FROM THE BOTTOM AND AT LEAST 7'-0" FROM THE TOP.
- THERE SHALL ONLY BE A 1/8" GAP BETWEEN THE VERTICAL BACKING STRIP AND THE "Z" BAR.
- SEE ROADWAY STANDARD 901.80 FOR DETAILS SHOWING SIGN MOUNTING TO SUPPORTS.
- PLACE NYLON WASHER UNDER HEAD OF 3/8" THRU BOLTS.
- FABRICATE EACH SIGN WITH 3/8" DIA. THRU BOLT, 4" FROM EACH END OF EACH "Z" BAR THRU SIGN PANEL AND "Z" BAR. SEE DETAILS A & C.
- FABRICATE EACH SIGN WITH 3/8" DIA. THRU BOLT CENTERED IN EACH PANEL THRU THE TOP AND BOTTOM "Z" BAR. CENTERED THRU BOLT REQUIRED IN END PANELS GREATER THAN 2'-0" WIDE. SEE DETAILS A & C.
- THRU BOLTS WILL HAVE A MINIMUM 1/16" TO MAXIMUM 1/8" GAP

**REVISED SIGNING  
ROADWAY STANDARD DRAWING**

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DATE: \_\_\_\_\_



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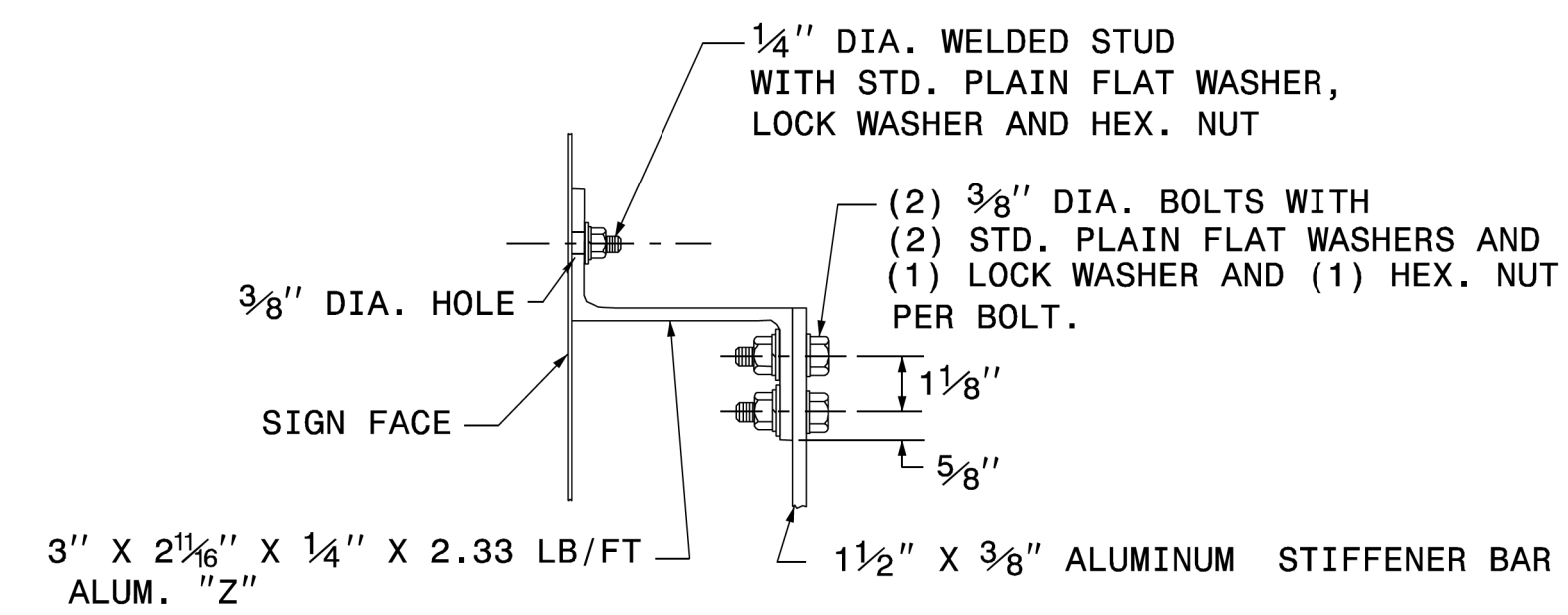
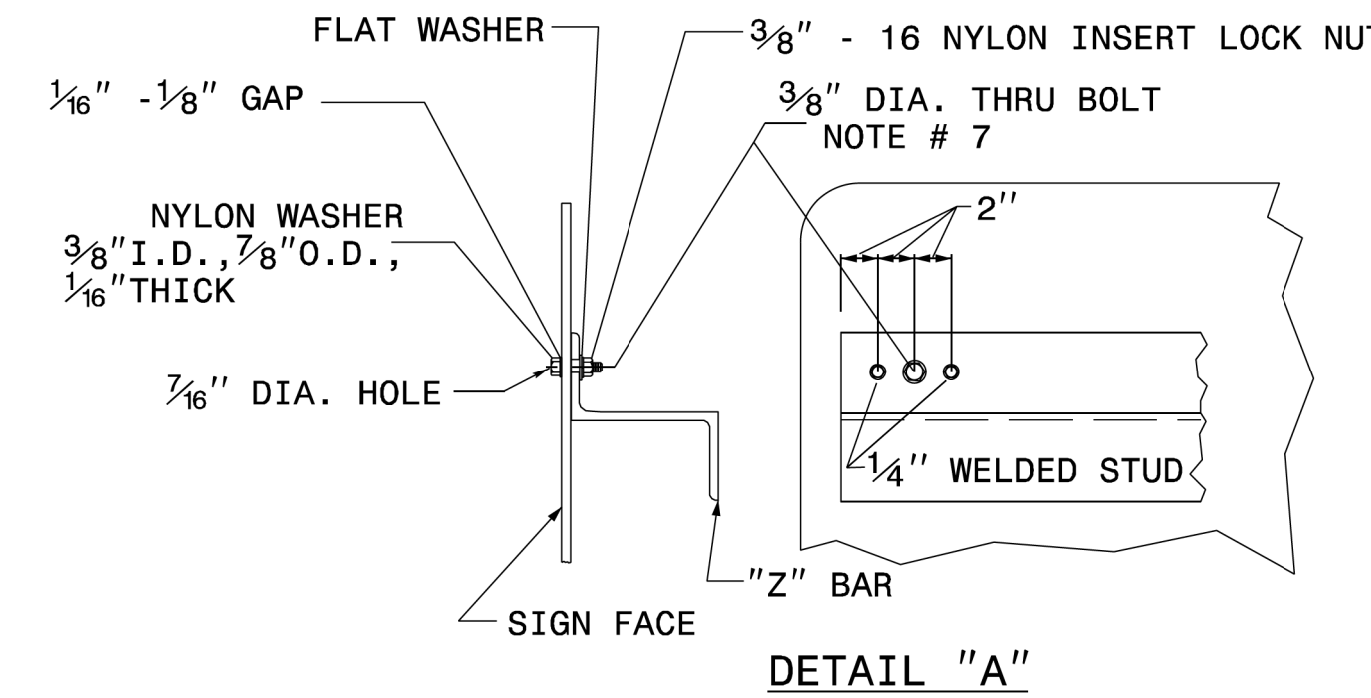
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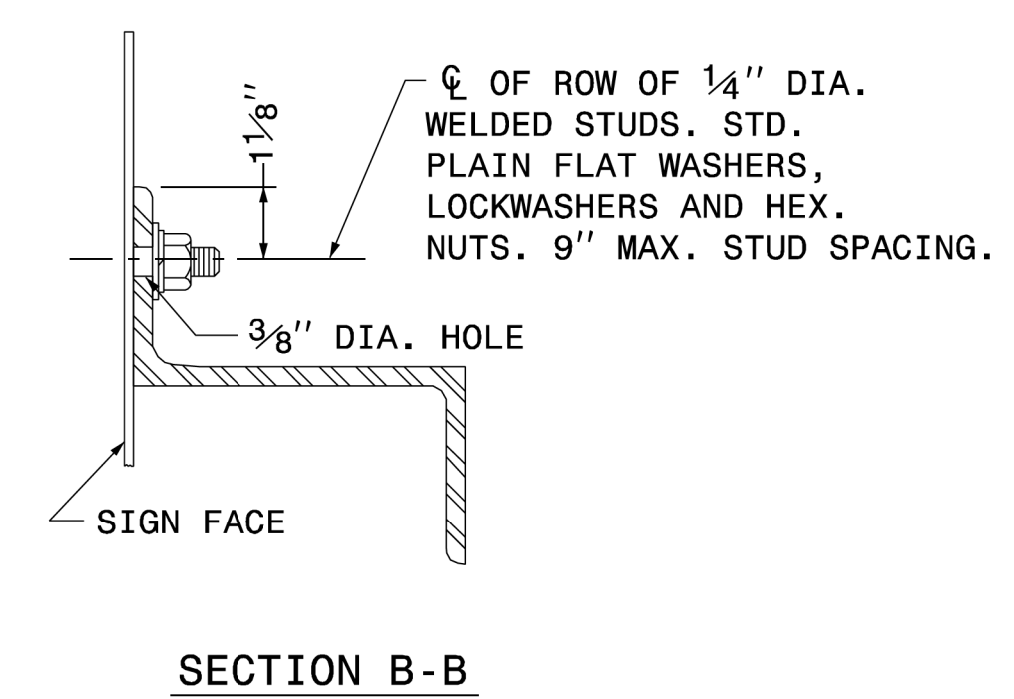
2-19

ENGLISH DETAIL DRAWING FOR  
**TYPE 'B' SIGNS**  
WELDED STUD CONSTRUCTION

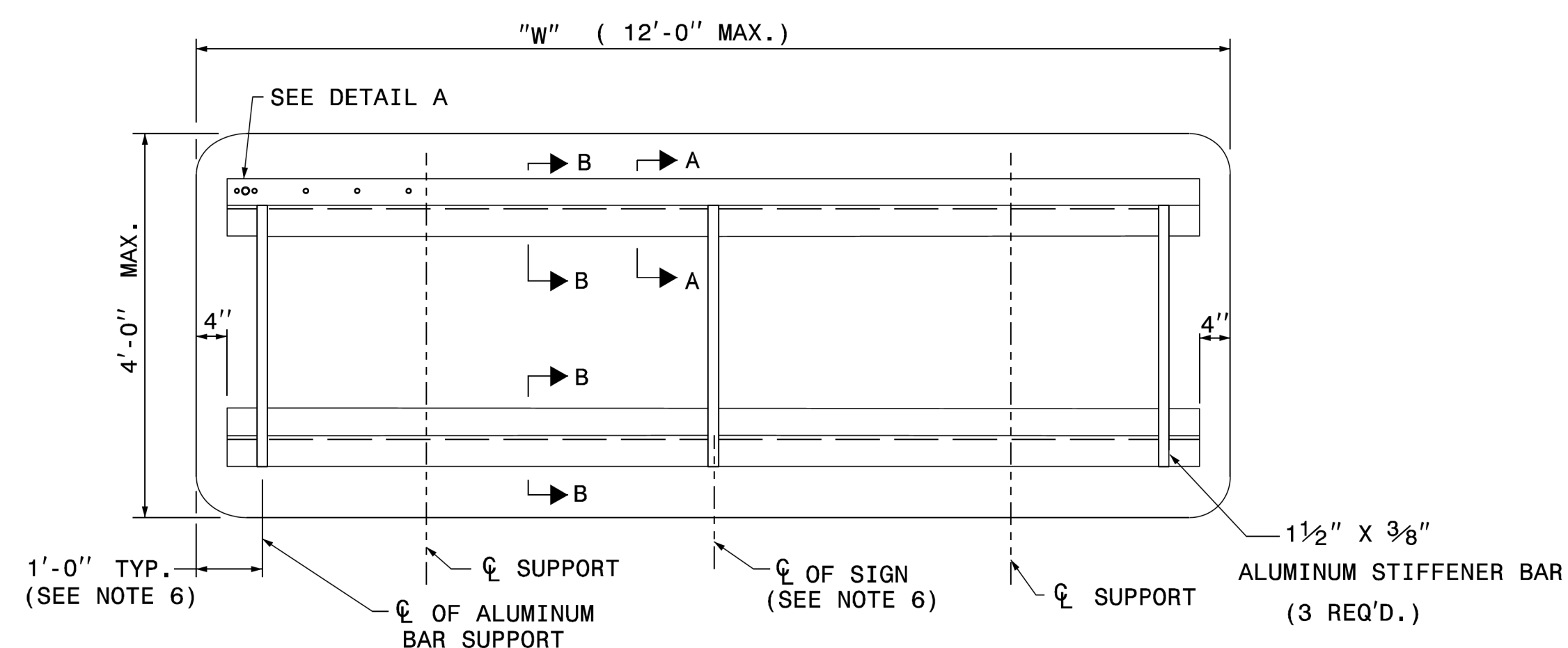
SHEET 1 OF 1  
**901D20**



SECTION A-A  
STIFFENER DETAIL



SECTION B-B



- NOTES:
1. USE NUMBER AND SIZE OF SUPPORTS SHOWN ON SUPPORT CHART IN PROJECT PLAN SHEETS.
  2. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR THE TYPE OF MATERIAL TO BE USED FOR SIGN PANELS, HANGER ASSEMBLIES AND SUPPORTS.
  3. FURNISH ALL MOUNTING HARDWARE.
  4. USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS.
  5. THE VERTICAL DIMENSION BETWEEN PRIMARY AND SECONDARY SIGNS IS TWO (2) INCHES.
  6. ADJUST STIFFENERS TO AVOID CONFLICT WITH SUPPORTS.
  7. FABRICATE EACH SIGN WITH A 3/8" DIA. BOLT 4" FROM EACH END OF EACH "Z" BAR THRU SIGN PANEL AND "Z" BAR.
  8. SEE ROADWAY STANDARD 901.70 FOR SUPPORT AND "Z" BAR SPACING.
  9. SEE ROADWAY STANDARD 901.80 FOR DETAILS SHOWING SIGN MOUNTING TO SUPPORTS.
  10. PLACE NYLON WASHER UNDER HEAD OF 3/8" THRU BOLT.
  11. THRU BOLTS WILL HAVE A MINIMUM 1/16" TO MAXIMUM 1/8" GAP.

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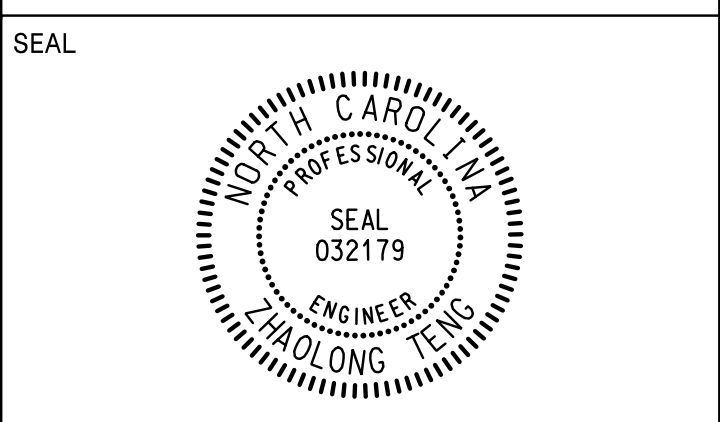
2-19

ENGLISH DETAIL DRAWING FOR  
**TYPE 'B' SIGNS**  
WELDED STUD CONSTRUCTION

SHEET 1 OF 1  
**901D20**

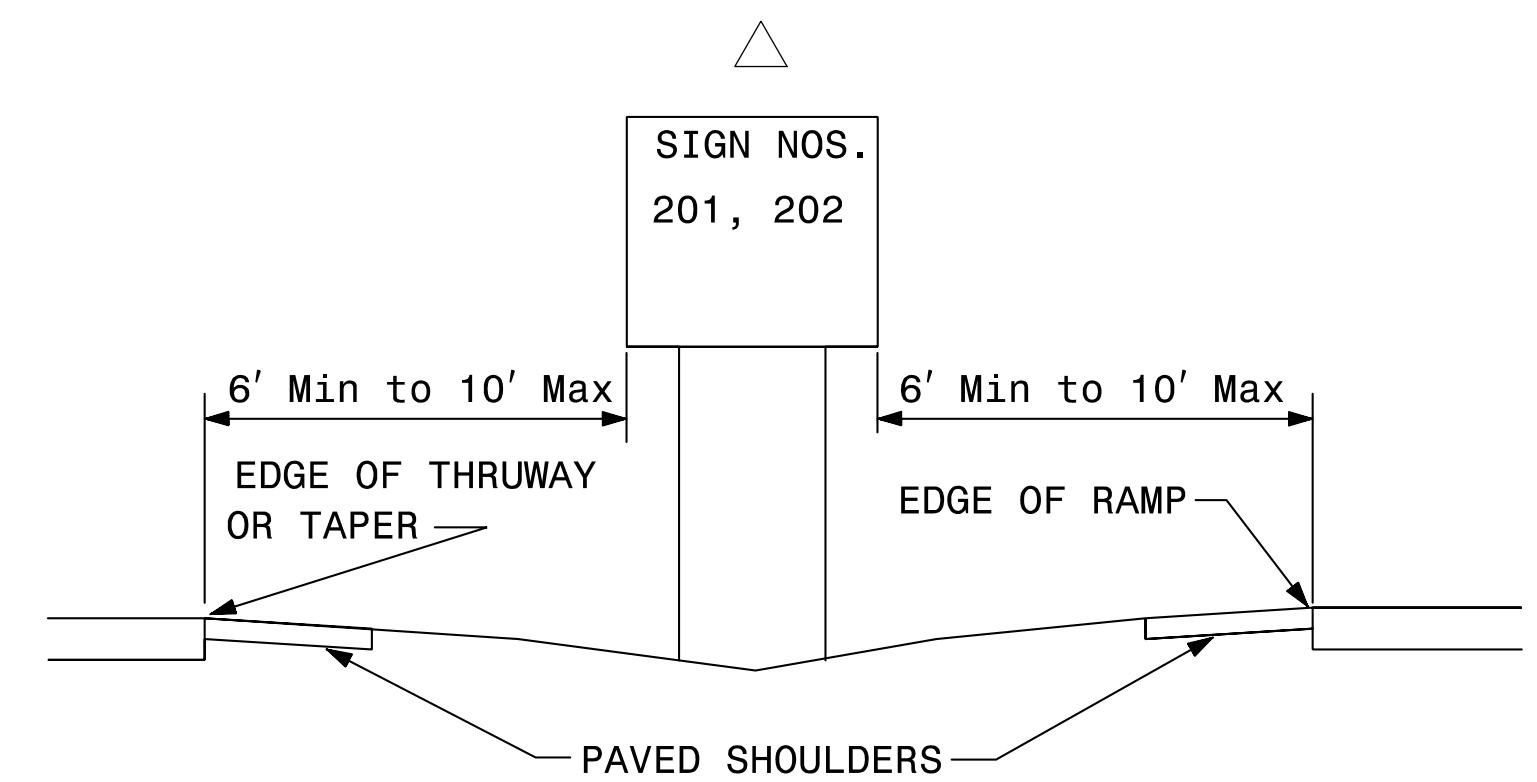
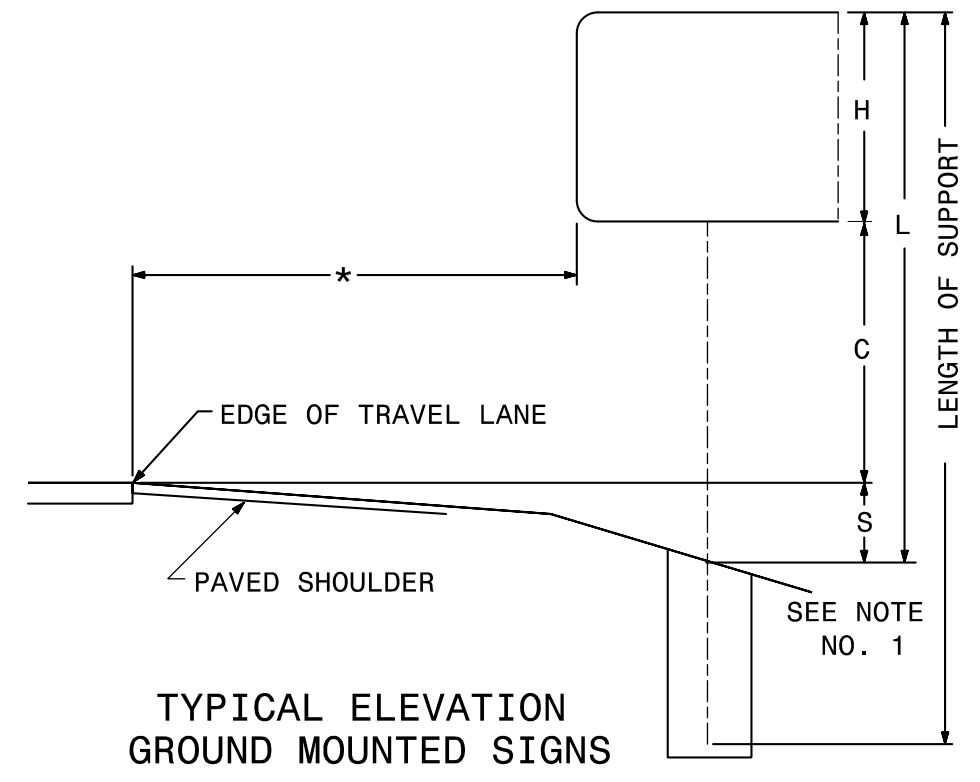
**REVISED SIGNING  
ROADWAY STANDARD DRAWING**

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SIGN		SIZE (in.)			ROADWAY STATION	NUMBER OF SUPPORTS	BEAM SECTION	SUPPORT TYPE BA or S	OMNI COUPLER	ATTACHMENT METHOD	MOUNTING METHOD	HORIZONTAL CLEARANCE* (ft.)	SUPPORT SPACING	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			SUPPORT WEIGHTS		FOOTINGS				FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)				
NUMBER	TYPE	w	x	h										SNS HT	MTG HT	EMBED-MENT	S	L	LENGTH	S	L	LENGTH	S	L	LENGTH	B/A (lbs.)	SIMPLE (lbs.)	DIAMETER (ft.)	DEPTH (ft.)	REINFORCED (c.y.)	PLAIN (c.y.)					
101A	A	132	x	60	-Y1- 25+50	2	W6x9	S	N/A	N/A	N/A	18.00	6.45	7.00	7.00	3.0	1.28	15.28	18.28	0.00	0.00	0.00	-0.16	13.84	16.84	0.00	316.08	1.5	3.5	0.46	0.00	_____				
101B	B	132	x	24																																
102	A	108	x	60	-RPB Y1- 15+50	2	S4x7.7	BA	N/A	N/A	N/A	14.00	5.27	5.00	7.00	3.0	1.39	13.39	16.39	0.00	0.00	0.00	2.27	14.27	17.27	299.18	0	1.0	3.5	0.00	0.20	_____				
103	A	102	x	108	-L- 28+50	2	W6x12	BA	N/A	N/A	N/A	18.00	4.98	9.00	7.00	3.0	1.36	17.36	20.36	0.00	0.00	0.00	2.61	18.61	21.61	581.64	0	1.5	3.5	0.46	0.00	_____				
104	A	114	x	108	-L- 25+50	2	W6x12	BA	N/A	N/A	N/A	18.00	5.57	9.00	7.00	3.5	1.41	17.41	20.91	0.00	0.00	0.00	2.81	18.81	22.31	596.64	0	1.5	4	0.52	0.00	_____				
201	A	96	x	60	-Y1- 20+25	2	S3x5.7	BA	N/A	N/A	N/A	Δ	4.69	5.00	7.00	2.5	0.27	12.27	14.77	0.00	0.00	0.00	0.43	12.43	14.93	205.29	0	1.0	3	0.00	0.17	_____				
202	A	96	x	60	-Y1- 35+10	2	S3x5.7	BA	N/A	N/A	N/A	Δ	4.69	5.00	7.00	2.5	0.12	12.12	14.62	0.00	0.00	0.00	0.08	12.08	14.58	202.44	0	1.0	3	0.00	0.17	_____				
																								TOTAL	TOTAL					TOTAL	TOTAL					
																								1885.19	316.08					1.44	0.55					
																								USE:	1886.00	317.00					2.00	1.00				

NOTES

1. DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF TRAVEL LANE.
2. FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (\*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (\*) ARTICLE 1072-1. (\*) = N.C.D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES
3. PLAN LOCATIONS FOR EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE INFORMATION AND, THEREFORE MAY NOT BE PRECISELY ACCURATE. THEREFORE, IT IS INCUMBENT UPON THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF UTILITIES BEFORE BEGINNING WORK IN A LOCATION.

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

APPROVED: \_\_\_\_\_

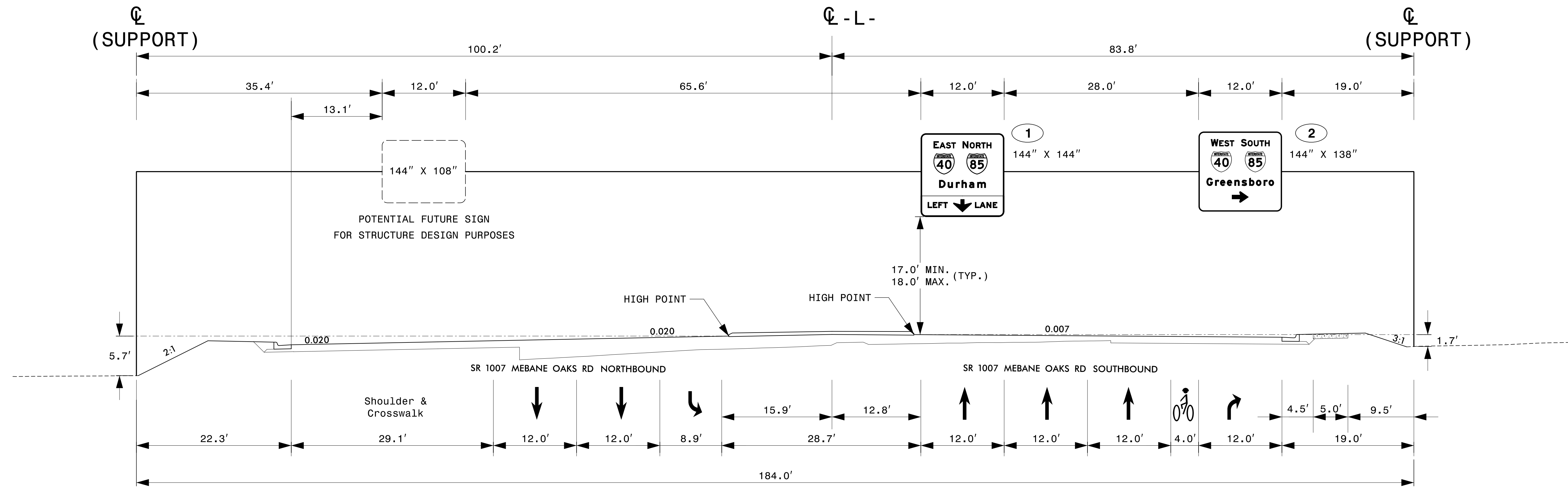
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**OVERHEAD SIGN ASSEMBLY 'A' -L- STA. 23+15**

**NOTES:**

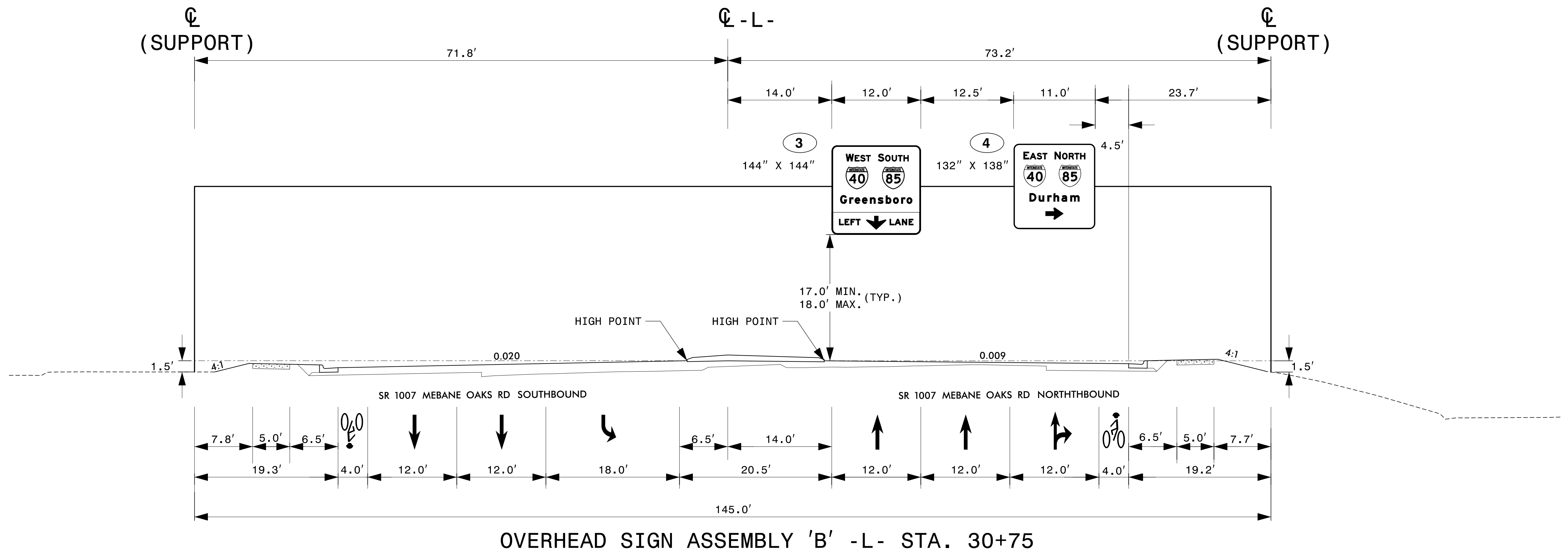
1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER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

**OVERHEAD SIGN ASSEMBLY 'A'  
-L- STA. 23+15**



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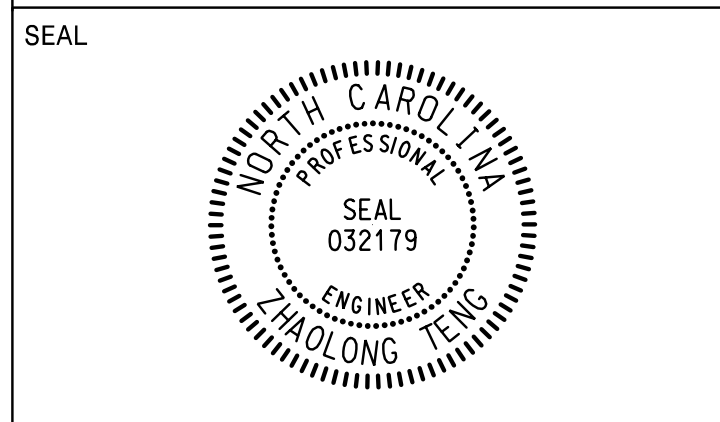
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6. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.

**OVERHEAD SIGN ASSEMBLY 'B'  
-L- STA. 30+75**

DATE: 09/20/2023 TIME: 11:00 AM DRAWING: PLAN

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_



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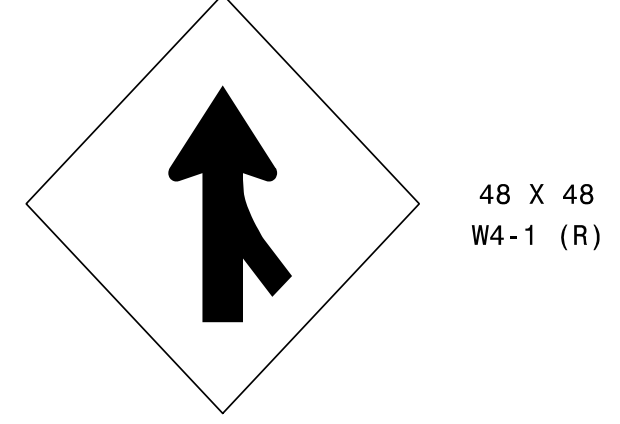
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401 QUANTITY REQ'D . 3



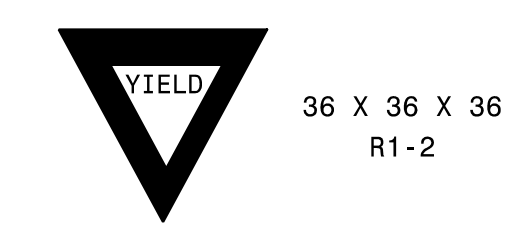
ONE "U" POST PER SIGN

402 QUANTITY REQ'D . 2



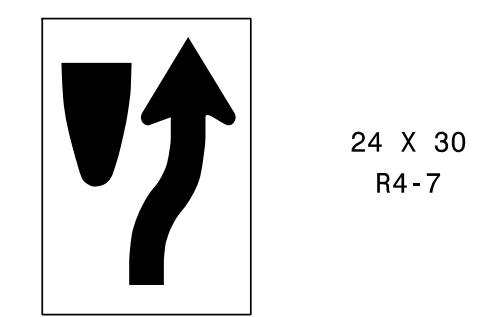
TWO "U" POSTS PER SIGN

403 QUANTITY REQ'D . 2



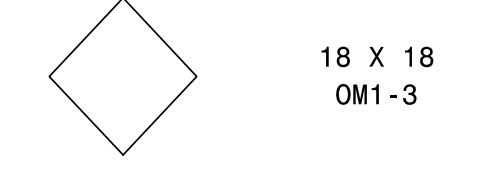
ONE "U" POST PER SIGN

404 QUANTITY REQ'D . 9



ONE "U" POST PER SIGN

405 QUANTITY REQ'D . 9



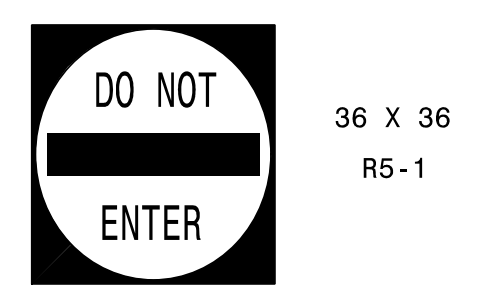
MOUNT BELOW SIGN NO. 404 IN 10 INSTALLATIONS

406 QUANTITY REQ'D . 9



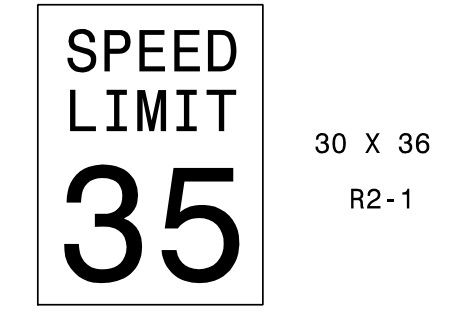
TWO "U" POSTS PER SIGN MOUNT BACK TO BACK IN 2 INSTALLATIONS

407 QUANTITY REQ'D . 4



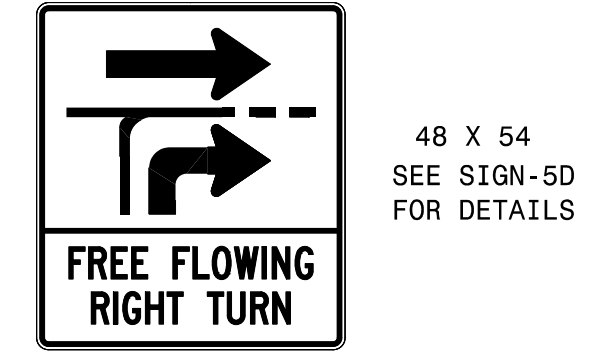
ONE "U" POST PER SIGN

408 QUANTITY REQ'D . 2



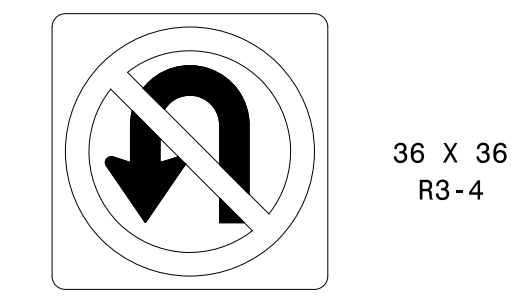
ONE "U" POST PER SIGN

409 QUANTITY REQ'D . 1



TWO "U" POSTS PER SIGN

410 QUANTITY REQ'D . 2



MOUNT BEHIND SIGN NO. 404 IN 2 INSTALLATIONS

411 QUANTITY REQ'D . 2



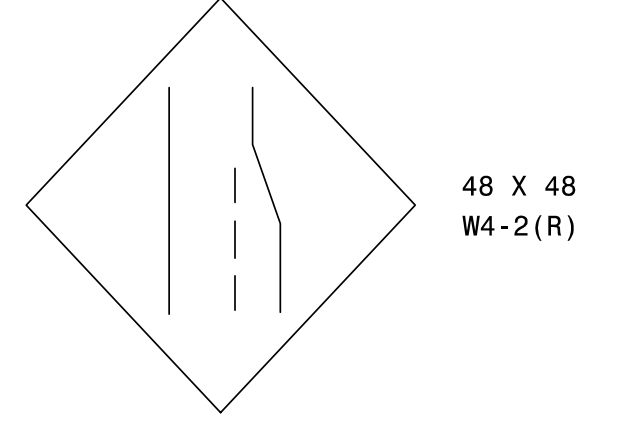
MOUNT BEHIND SIGN NO. 406 IN 2 INSTALLATIONS

412 QUANTITY REQ'D . 4



ONE "U" POST PER SIGN

413 QUANTITY REQ'D . 2



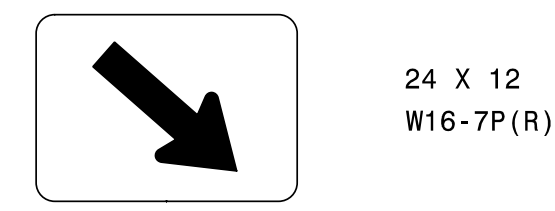
TWO "U" POSTS PER SIGN

414 QUANTITY REQ'D . 3



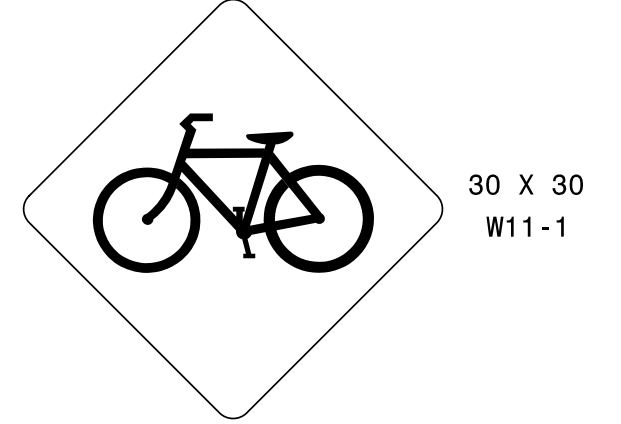
YELLOW/GREEN REFLECTIVE SHEETING ONE "U" POST PER SIGN

415 QUANTITY REQ'D . 3



YELLOW/GREEN REFLECTIVE SHEETING MOUNT BELOW SIGN NO. 414 IN 3 INSTALLATIONS

416 QUANTITY REQ'D . 1



ONE "U" POST PER SIGN

417 QUANTITY REQ'D . 1



MOUNT BELOW SIGN 416 IN 1 INSTALLATION

418 QUANTITY REQ'D . 4



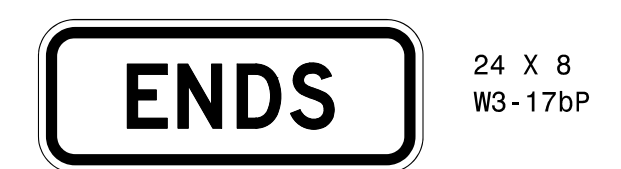
ONE "U" POST PER SIGN

419 QUANTITY REQ'D . 2



MOUNT BELOW SIGN 418 IN 2 INSTALLATIONS

420 QUANTITY REQ'D . 2



MOUNT BELOW SIGN 418 IN 2 INSTALLATIONS

501 502

TWO "U" POSTS PER SIGN ASSEMBLY

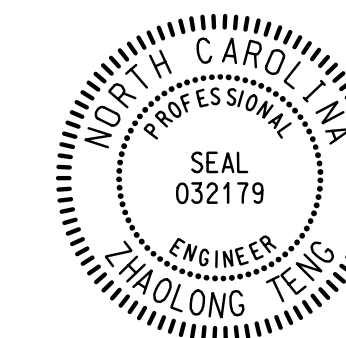
**TYPE "E" & "F" SIGNS**

DATE PLOTTED: 2/25/2024 11:41:58 AM

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

SEAL



**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

PREPARED IN THE OFFICE OF:  
**Accelerate Engineering, PLLC**  
 875 Walnut Street, Suite 316  
 Cary, NC 27511  
 Tel: 919.263.5678 Fax: 919.263.5687  
 NC License No. P-1442

# OVERHEAD ASSEMBLY 'A'

SIGN NUMBER: 1 TYPE: A QUANTITY: 1 SIGN WIDTH: 12'-0" HEIGHT: 12'-0" TOTAL AREA: 144.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 3 LENGTH: 136.0	BACKG COLOR: Green COPY COLOR: White <table border="1"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr> <td>M1_1</td> <td>22.1</td> <td>73.4</td> <td>36</td> <td>36</td> </tr> <tr> <td>M1_1</td> <td>79.1</td> <td>73.4</td> <td>36</td> <td>36</td> </tr> <tr> <td>ARDOWN</td> <td>56</td> <td>8</td> <td>32</td> <td>22</td> </tr> </table> MAT'L: 0.125" (3.2 mm) ALUMINUM	SYMBOL	X	Y	WID	HT	M1_1	22.1	73.4	36	36	M1_1	79.1	73.4	36	36	ARDOWN	56	8	32	22	DESIGN BY: G. Teng PROJECT ID: I-5711 CHECKED BY: E. Thomas LOCATION: -L- STA. 23+15c Nov 07, 2018 DIV: 7
SYMBOL	X	Y	WID	HT																		
M1_1	22.1	73.4	36	36																		
M1_1	79.1	73.4	36	36																		
ARDOWN	56	8	32	22																		

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS											Series/Size
Letter spacings are to start of next letter											Text Length
E	A	S	T								E 2000
22.1	9	1.2	11.3	9.2	7.5	83.6					38.2
N	O	R	H								E 2000
72.4	9.7	2.6	10.7	9.2	8.1	22.1					49.5
D	U	R	H	A	M						EM 2000
31.7	14.8	14.1	9.9	12.9	14.1	14.7	31.7				80.5
L	E	F	T	L	A	N	E				EM 2000
12	9	9.5	8.5	7.4	47.4	8	11.9	10.9	7.4	12	120

FILENAME: I5711\_Sgn\_041615gn NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 2 TYPE: A QUANTITY: 1 SIGN WIDTH: 12'-0" HEIGHT: 11'-6" TOTAL AREA: 138.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 3 LENGTH: 136.0	BACKG COLOR: Green COPY COLOR: White <table border="1"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr> <td>M1_1</td> <td>21.3</td> <td>68</td> <td>36</td> <td>36</td> </tr> <tr> <td>M1_1</td> <td>80.1</td> <td>68</td> <td>36</td> <td>36</td> </tr> <tr> <td>AR_Type D</td> <td>57.6</td> <td>15.4</td> <td>19.2</td> <td>28.8</td> </tr> </table> MAT'L: 0.125" (3.2 mm) ALUMINUM	SYMBOL	X	Y	WID	HT	M1_1	21.3	68	36	36	M1_1	80.1	68	36	36	AR_Type D	57.6	15.4	19.2	28.8	DESIGN BY: G. Teng PROJECT ID: I-5711 CHECKED BY: E. Thomas LOCATION: -L- STA. 23+15c Nov 07, 2018 DIV: 7
SYMBOL	X	Y	WID	HT																		
M1_1	21.3	68	36	36																		
M1_1	80.1	68	36	36																		
AR_Type D	57.6	15.4	19.2	28.8																		

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS											Series/Size	
Letter spacings are to start of next letter											Text Length	
W	E	S	T								E 2000	
21.3	12.7	1.8	8.9	9.2	7.5	82.6					40.1	
G	R	E	E	N	S	B	O	R	O		E 2000	
73.4	9.7	1.8	10.7	9.8	9.2	8.1	21.3				49.4	
L	E	F	T	L	A	N	E				EM 2000	
13.8	14.8	8.7	11.7	12.9	12.7	12.9	11.7	13.2	8.7	9.1	13.8	116.4

FILENAME: I5711\_Sgn\_041615gn NORTH CAROLINA D.O.T. SIGN DETAIL

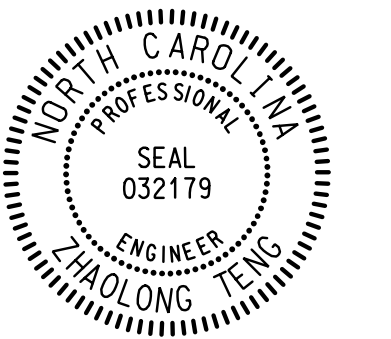
**OVERHEAD  
SIGN DESIGNS**



APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

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PREPARED IN THE OFFICE OF:  
**Accelerate Engineering, PLLC**  
875 Walnut Street, Suite 316  
Cary, NC 27511  
Tel: 919.263.5678 Fax: 919.263.5687  
NC License No. P-1442

# OVERHEAD ASSEMBLY 'B'

<p>SIGN NUMBER: 3 TYPE: A QUANTITY: 1 SIGN WIDTH: 12'-0" HEIGHT: 12'-0" TOTAL AREA: 144.0 Sq.Ft.</p> <p><b>BORDER TYPE: FLUSH</b> RECESS: 0" WIDTH: 2" RADII: 12"</p> <p>NO. Z BARS: 3 LENGTH: 136.0</p> <p>USE NOTES: 1. Legend and border(except those that are colored black) 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 with Grade A reflective sheeting and demountable. 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Arrow shall be on 0.032" aluminum, black non-reflective sheeting and demountable. Yellow Panel Border Info: Black, 0.5" Recess, 1.5" Width</p>	<p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1" style="font-size: 8px;"> <tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr> <tr><td>M1_1</td><td>22.9</td><td>73.4</td><td>36</td><td>36</td></tr> <tr><td>M1_1</td><td>81.6</td><td>73.4</td><td>36</td><td>36</td></tr> <tr><td>ARDOWN</td><td>56</td><td>8</td><td>32</td><td>22</td></tr> </table> <p>MAT'L: 0.125" (3.2 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT	M1_1	22.9	73.4	36	36	M1_1	81.6	73.4	36	36	ARDOWN	56	8	32	22	<p>DESIGN BY: G. Teng PROJECT ID: I-5711</p>	<p>CHECKED BY: E. Thomas LOCATION: -L- STA. 30+75c Nov 07, 2018 DIV: 7</p>
SYMBOL	X	Y	WID	HT																			
M1_1	22.9	73.4	36	36																			
M1_1	81.6	73.4	36	36																			
ARDOWN	56	8	32	22																			

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS															Series/Size
Letter spacings are to start of next letter															Text Length
W	E	S	T												E 2000
22.9	12.7	1.8	8.9	9.2	7.5	8.1									40.1
S	O	T	H												E 2000
75	9.7	1.8	10.7	9.8	9.2	8.1	15.7								49.4
C	E	N	S	B	O	R	O								EM 2000
13.8	14.8	8.7	11.7	12.9	12.9	11.7	13.2	8.7	9.1	13.8					116.4
L	E	F	T	L	A	N	E								EM 2000
12	9	9.5	8.5	7.4	47.4	8	11.9	10.9	7.4	12					120

FILENAME: I5711\_Sgn\_041616sign NORTH CAROLINA D.O.T. SIGN DETAIL

<p>SIGN NUMBER: 4 TYPE: A QUANTITY: 1 SIGN WIDTH: 11'-0" HEIGHT: 11'-6" TOTAL AREA: 126.5 Sq.Ft.</p> <p><b>BORDER TYPE: FLUSH</b> RECESS: 0" WIDTH: 2" RADII: 12"</p> <p>NO. Z BARS: 3 LENGTH: 124.0</p> <p>USE NOTES: 1. Legend and border(except those that are colored black) shall be direct applied Grade A sheeting. 2. Background shall be Grade C reflective sheeting. 3. Shields and type D arrow shall be on 0.032" (0.8mm) aluminum with Grade A reflective sheeting and demountable.</p>	<p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1" style="font-size: 8px;"> <tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr> <tr><td>M1_1</td><td>16.3</td><td>68</td><td>36</td><td>36</td></tr> <tr><td>M1_1</td><td>73.1</td><td>68</td><td>36</td><td>36</td></tr> <tr><td>AR_Type D</td><td>51.7</td><td>15.4</td><td>19.2</td><td>28.8</td></tr> </table> <p>MAT'L: 0.125" (3.2 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT	M1_1	16.3	68	36	36	M1_1	73.1	68	36	36	AR_Type D	51.7	15.4	19.2	28.8	<p>DESIGN BY: G. Teng PROJECT ID: I-5711</p>	<p>CHECKED BY: E. Thomas LOCATION: -L- STA. 30+75c Nov 07, 2018 DIV: 7</p>
SYMBOL	X	Y	WID	HT																			
M1_1	16.3	68	36	36																			
M1_1	73.1	68	36	36																			
AR_Type D	51.7	15.4	19.2	28.8																			

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS															Series/Size
Letter spacings are to start of next letter															Text Length
E	A	S	T												E 2000
16.1	9	1.2	11.3	9.2	7.5	77.6									38.2
N	O	R	H												E 2000
66.4	9.7	2.6	10.7	9.2	9.2	8.1	16.1								49.5
D	U	R	H	A	M										EM 2000
25.7	14.8	14.1	9.9	12.9	14.1	14.7	25.7								80.5

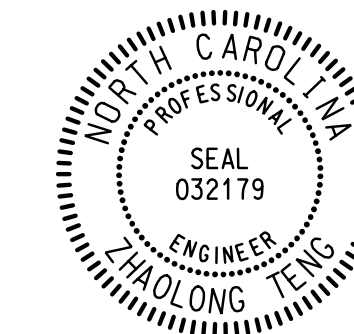
FILENAME: I5711\_Sgn\_041616sign NORTH CAROLINA D.O.T. SIGN DETAIL

## OVERHEAD SIGN DESIGNS

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

SEAL



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PREPARED IN THE OFFICE OF:  
**Accelerate Engineering, PLLC**  
875 Walnut Street, Suite 316  
Cary, NC 27511  
Tel: 919.263.5678 Fax: 919.263.5687  
NC License No. P-1442

SIGN NUMBER: 101A TYPE: A QUANTITY: 1 SIGN WIDTH: 11'-0" HEIGHT: 5'-0" TOTAL AREA: 55.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.75" WIDTH: 1.25" RADIUS: 3.00" NO. Z BARS: 2 LENGTH: 124.0	BACKG COLOR: White COPY COLOR: Black SYMBOL X Y WID HT	DESIGN BY: G. Teng PROJECT ID: I-5711	CHECKED BY: E. Thomas LOCATION: -Y1- STA. 25+50± DIV: 7	Nov 06, 2018
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USE NOTES:  
1. Legend and border shall be non-reflective black sheeting.  
2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size	Text Length						
18	11.9	9	7.4	10	9.2	10.2	10.5	10.3	9.5	8.1	17.9			EM 2000	96.1					
	R	I	G	H	T		L	A	N	E				EM 2000	72.5					
29.8	8.2	3.5	8.4	7.9	5.9	8	6.4	9.5	8.7	5.9	29.8			EM 2000	118.7					
	B	E	G	I	N		2		/	4		M	I	L	E	S			EM 2000	118.7
6.7	8.2	7.3	8.4	3.8	6.5	8	8.1	6	3.5	8.8	7.4	8	9.7	3.8	7.2	7.4	6.5	6.7		

FILENAME: I5711\_Sgn\_Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 101B TYPE: B QUANTITY: 1 SIGN WIDTH: 11'-0" HEIGHT: 2'-0" TOTAL AREA: 22.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1.50" RADIUS: 3.00" NO. Z BARS: 2 LENGTH: 124.0	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT	DESIGN BY: G. Teng PROJECT ID: I-5711	CHECKED BY: E. Thomas LOCATION: -Y1- STA. 25+50± DIV: 7	Nov 06, 2018
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USE NOTES:  
1. Legend & border shall be direct applied Grade C sheeting.  
2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size	Text Length						
	W	E	I	G	H		I	N		M	O	T	I	O	N				EM 2000	105.4
13.3	9.9	7.6	3.5	8.4	6.5	8	3.8	6.5	8	9.4	7.8	7.4	3.5	8.6	6.5	13.3			EM 2000	105.4

FILENAME: I5711\_Sgn\_Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 102 TYPE: A QUANTITY: 1 SIGN WIDTH: 9'-0" HEIGHT: 5'-0" TOTAL AREA: 45.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.75" WIDTH: 1.25" RADIUS: 3.00" NO. Z BARS: 2 LENGTH: 100.0	BACKG COLOR: White COPY COLOR: Black SYMBOL X Y WID HT	DESIGN BY: G. Teng PROJECT ID: I-5711	CHECKED BY: E. Thomas LOCATION: -RPB Y1- STA. 15+50± DIV: 7	Nov 06, 2018
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USE NOTES:  
1. Legend and border shall be non-reflective black sheeting.  
2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size	Text Length	
10.9	10.4	8.4	10	9.2	10.1	10.4	10.4	9.3	8.1	10.8				EM 2000	86.3
	3	A	X	L	E	S								EM 2000	53
27.5	6.5	8	9	8.6	7.4	7.1	6.5	27.5						EM 2000	55
	O	R		M	O	R	E							EM 2000	88.4
26.5	8.6	6.5	8	9.4	8.6	8.1	6	26.5						EM 2000	88.4
	L	E	F	T		2		L	A	N	E	S		EM 2000	88.4
9.8	7.4	7.6	6.6	6	8	6.5	8	6.6	9.5	8.6	7.1	6.5	9.8		

FILENAME: I5711\_Sgn\_Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 103 TYPE: A QUANTITY: 1 SIGN WIDTH: 8'-6" HEIGHT: 9'-0" TOTAL AREA: 76.5 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADIUS: 12" NO. Z BARS: 3 LENGTH: 94.0	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT M1_1 14 55.2 24 24 M1_1 59.5 55.2 24 24 AR_Type D 38 13.1 15.4 23	DESIGN BY: G. Teng PROJECT ID: I-5711	CHECKED BY: E. Thomas LOCATION: -L- STA. 28+50± DIV: 7	Nov 06, 2018
--	---	--	--	--------------

USE NOTES:  
1. Legend & border shall be direct applied Grade C sheeting.  
2. Background shall be Grade C reflective sheeting.  
3. Shields and Type D arrows shall be on 0.032" (0.8mm) aluminum with Grade C reflective sheeting and demountable.

LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size	Text Length	
	E	A	S	T										EM 2000	30.9
10.6	7.5	1	9	7.4	6	60.5								EM 2000	40
	N	O	R	T	H									EM 2000	64.6
51.5	8.1	2.1	8.6	7.4	7.4	6.5	10.6							EM 2000	64.6
	D	U	R	H	A	M								EM 2000	64.6
18.7	11.9	11.3	7.9	10.4	11.3	11.8	18.7							EM 2000	64.6

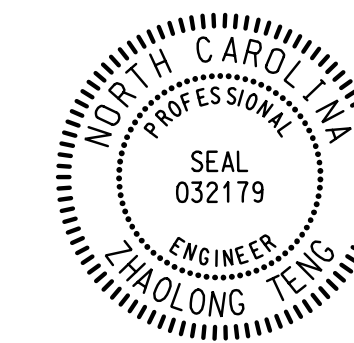
FILENAME: I5711\_Sgn\_Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

**GROUND MOUNTED  
SIGN DESIGNS**

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

SEAL



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PREPARED IN THE OFFICE OF:  
**AE** Accelerate Engineering, PLLC  
875 Walnut Street, Suite 316  
Cary, NC 27511  
Tel: 919.263.5678 Fax: 919.263.5687  
NC License No. P-1442

SIGN NUMBER: 104 TYPE: A QUANTITY: 1 SIGN WIDTH: 9'-6" HEIGHT: 9'-0" TOTAL AREA: 85.5 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 3 LENGTH: 106.0	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT M1_1 20.1 55.1 24 24 M1_1 66.3 55.1 24 24 AR_Type D 45.5 13 15.4 23 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: G. Teng PROJECT ID: I-5711 CHECKED BY: E. Thomas LOCATION: -L- STA. 25+50± Nov 06, 2018 DIV: 7
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USE NOTES:  
1. Legend & border shall be direct applied Grade C sheeting.  
2. Background shall be Grade C reflective sheeting.  
3. Shields and Type D arrows shall be on 0.032" (0.8mm) aluminum with Grade C reflective sheeting and demountable.

Spacing Factor is 1 unless specified otherwise

Letter positions												Series/Size	
Letter spacings are to start of next letter												Text Length	
													E 2000
15.8	10.6	1.4	7.1	7.4	6	65.7							32.5
													E 2000
58.3	8.1	1.5	8.6	7.8	7.4	6.5	15.8						39.8
													EM 2000
10.3	11.9	7	9.4	10.4	10.2	10.4	9.4	10.6	7	7.3	10.3		93.4

FILENAME: I5711\_Sgn\_Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 201, 202 TYPE: A QUANTITY: 1 SIGN WIDTH: 8'-0" HEIGHT: 5'-0" TOTAL AREA: 40.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1.5" RADII: 6" NO. Z BARS: 2 LENGTH: 88.0	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT AR_Type A 67 6 18.3 29.3 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: G. Teng PROJECT ID: I-5711 CHECKED BY: E. Thomas LOCATION: SEE SIGN-3 AND SIGN-6 May 16, 2019 DIV: 7
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USE NOTES:  
1. Legend & border shall be direct applied Grade C sheeting.  
2. Background shall be Grade C reflective sheeting.  
3. Type A arrow shall be on 0.032" (0.8mm) aluminum with Grade C reflective sheeting and demountable.

Spacing Factor for "EXIT" is 2.25.  
Spacing Factor is 1 unless specified otherwise

Letter positions												Series/Size	
Letter spacings are to start of next letter												Text Length	
													E 2000
25.8	12.8	15.8	6.8	9	25.8								44.4
													E 2000
9	13.5	19	16.9	37.6									49.4

FILENAME: I5711\_Sgn\_Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 301 TYPE: D QUANTITY: 1 SIGN WIDTH: 6'-0" HEIGHT: 3'-6" TOTAL AREA: 21.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1" RADII: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Green/Brown COPY COLOR: White SYMBOL X Y WID HT AR_Type D 48 30 6 9 AR_Type D 31.5 4 6 9 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: G. Teng PROJECT ID: I-5711 CHECKED BY: E. Thomas LOCATION: -RPA_Y1- STA. 13+00± Nov 06, 2018 DIV: 7
---	--	---

USE NOTES:  
1. Legend & border shall be direct applied Grade C sheeting.  
2. Background shall be Grade C reflective sheeting.  
3. The upper portion of the sign panel shall have green background and the lower portion shall have brown background.

Spacing Factor is 1 unless specified otherwise

Letter positions												Series/Size								
Letter spacings are to start of next letter												Text Length								
													D 2000							
15	5.8	4.4	4.3	4.6	4.4	3.5	30						26.9							
													D 2000							
7.8	5.4	1.8	3.1	2.8	4.6	3	1.9	3.5	6	5.3	1.8	3.1	3.1	3	1.9	3.8	2.4	7.8		56.5

FILENAME: I5711\_Sgn\_Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 302 TYPE: D QUANTITY: 1 SIGN WIDTH: 6'-0" HEIGHT: 3'-6" TOTAL AREA: 21.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1" RADII: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Green/Brown COPY COLOR: White SYMBOL X Y WID HT AR_Type D 15 30 6 9 AR_Type D 31.3 4 6 9 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: G. Teng PROJECT ID: I-5711 CHECKED BY: E. Thomas LOCATION: -RPC_Y1- STA. 8+50± Nov 06, 2018 DIV: 7
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USE NOTES:  
1. Legend & border shall be direct applied Grade C sheeting.  
2. Background shall be Grade C reflective sheeting.  
3. The upper portion of the sign panel shall have green background and the lower portion shall have brown background.

Spacing Factor is 1 unless specified otherwise

Letter positions												Series/Size								
Letter spacings are to start of next letter												Text Length								
													D 2000							
29.9	5.8	4.4	4.3	4.6	4.4	3.5	15.2						26.9							
													D 2000							
7.8	5.4	1.8	3.1	2.8	4.6	3	1.9	3.5	6	5.3	1.8	3.1	3.1	3	1.9	3.8	2.4	7.8		56.5

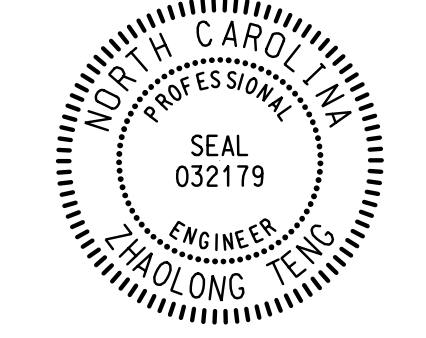
FILENAME: I5711\_Sgn\_Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

**GROUND MOUNTED  
SIGN DESIGNS**

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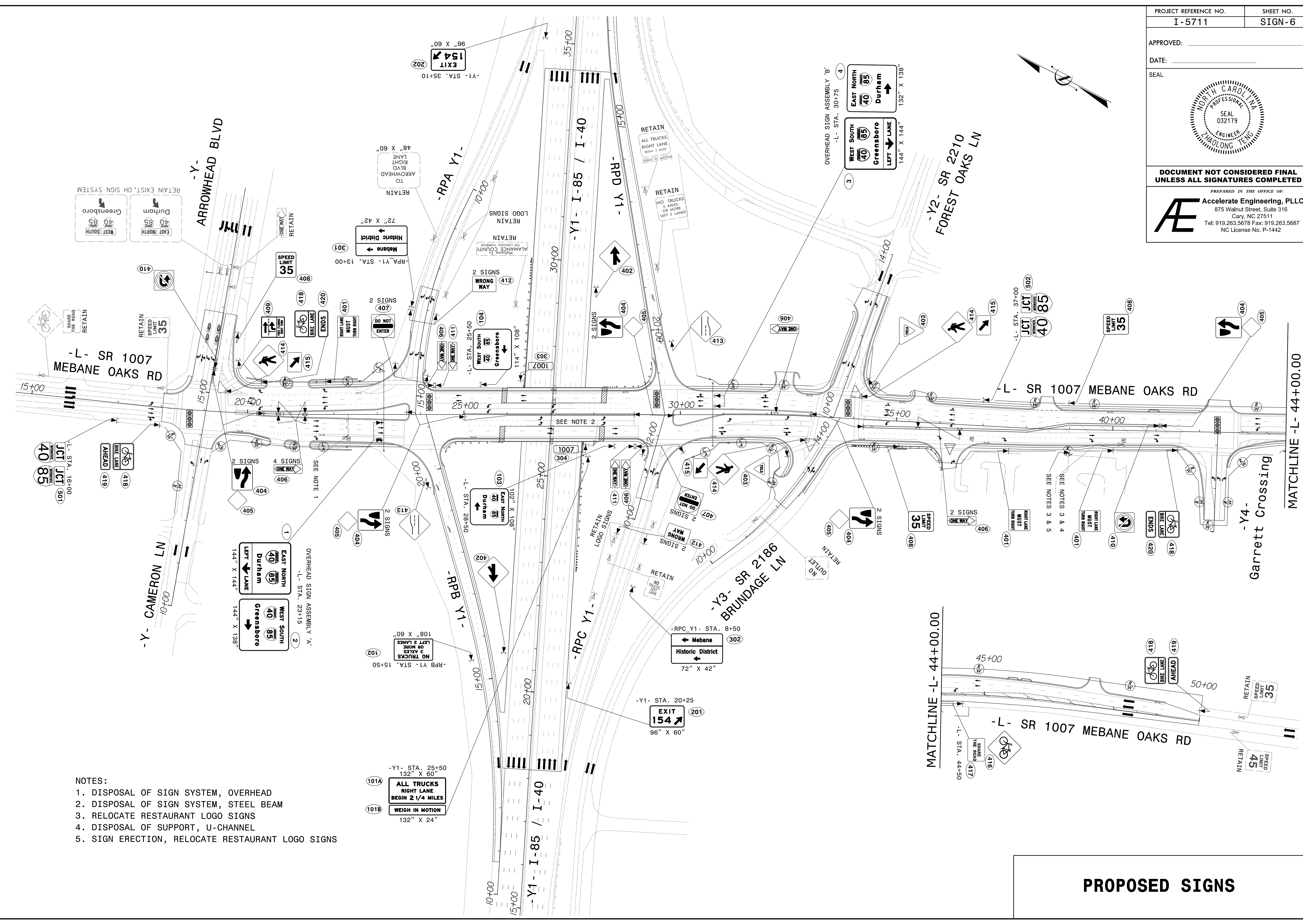


APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 SEAL



**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

PREPARED IN THE OFFICE OF:  
**Accelerate Engineering, PLLC**  
 875 Walnut Street, Suite 316  
 Cary, NC 27511  
 Tel: 919.263.5678 Fax: 919.263.5687  
 NC License No. P-1442



- NOTES:
1. DISPOSAL OF SIGN SYSTEM, OVERHEAD
  2. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
  3. RELOCATE RESTAURANT LOGO SIGNS
  4. DISPOSAL OF SUPPORT, U-CHANNEL
  5. SIGN ERECTION, RELOCATE RESTAURANT LOGO SIGNS

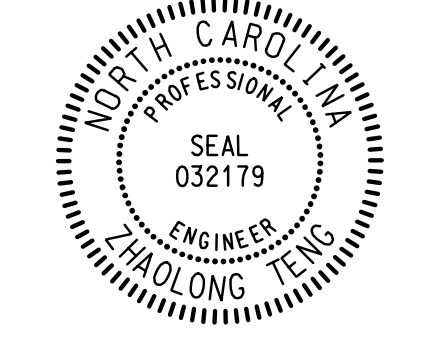
101A ALL TRUCKS  
 RIGHT LANE  
 BEGIN 2 1/4 MILES  
 132" X 60"

101B WEIGH IN MOTION  
 132" X 24"

**PROPOSED SIGNS**

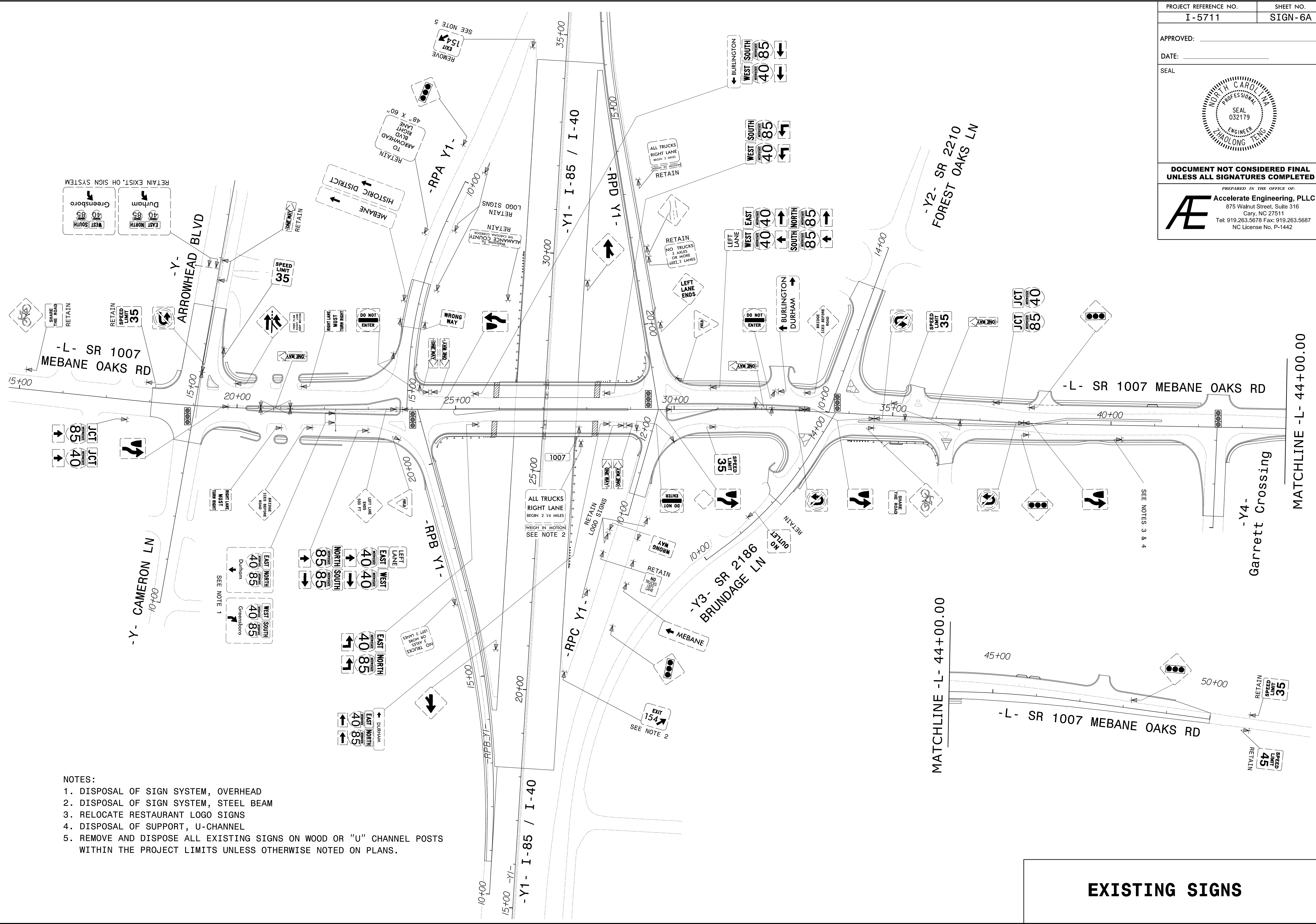
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APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
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- NOTES:
1. DISPOSAL OF SIGN SYSTEM, OVERHEAD
  2. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
  3. RELOCATE RESTAURANT LOGO SIGNS
  4. DISPOSAL OF SUPPORT, U-CHANNEL
  5. REMOVE AND DISPOSE ALL EXISTING SIGNS ON WOOD OR "U" CHANNEL POSTS WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED ON PLANS.

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**EXISTING SIGNS**