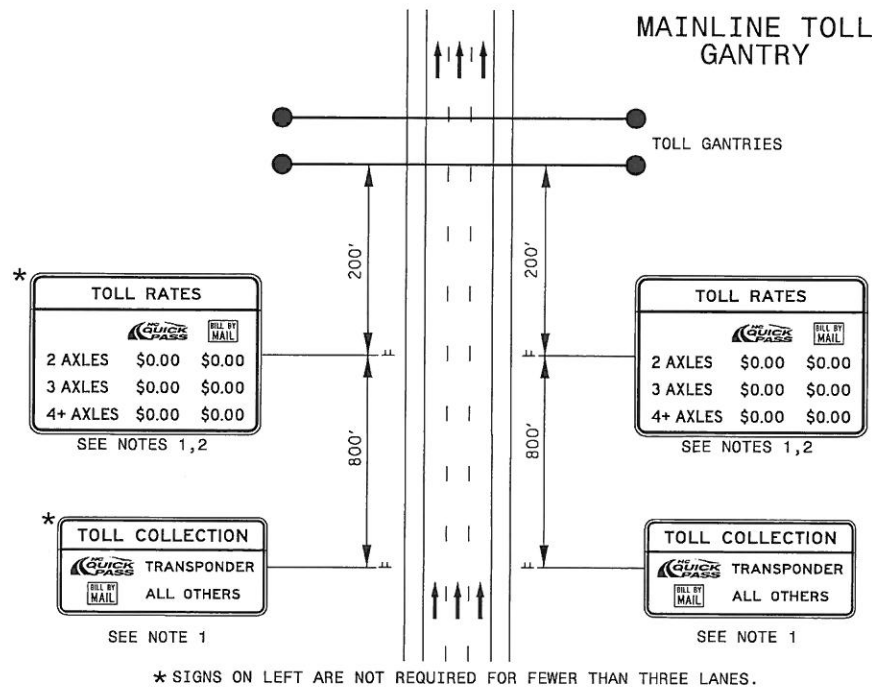
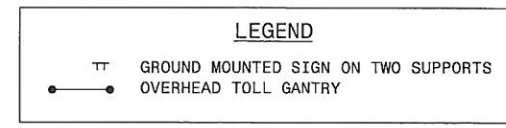


NOTE:  
 STANDARD APPLIES TO BOTH DIAMOND AND LOOP RAMP CONFIGURATIONS

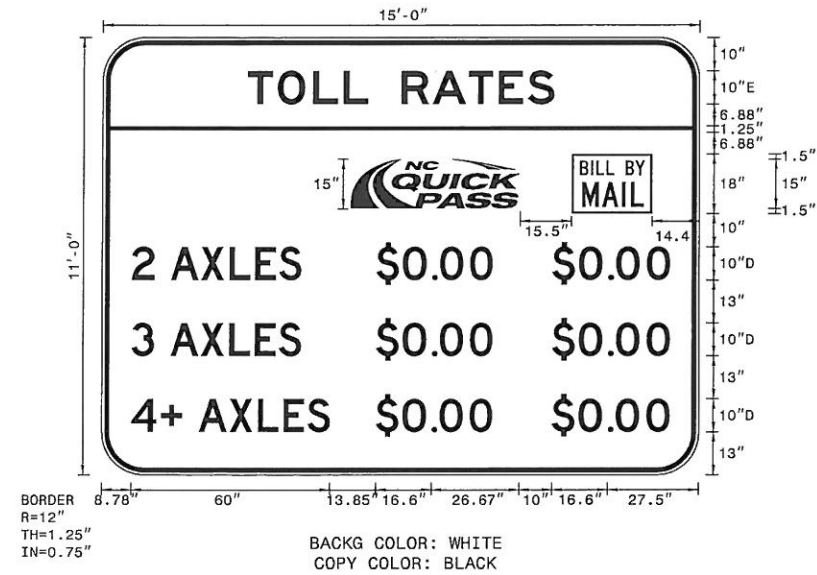
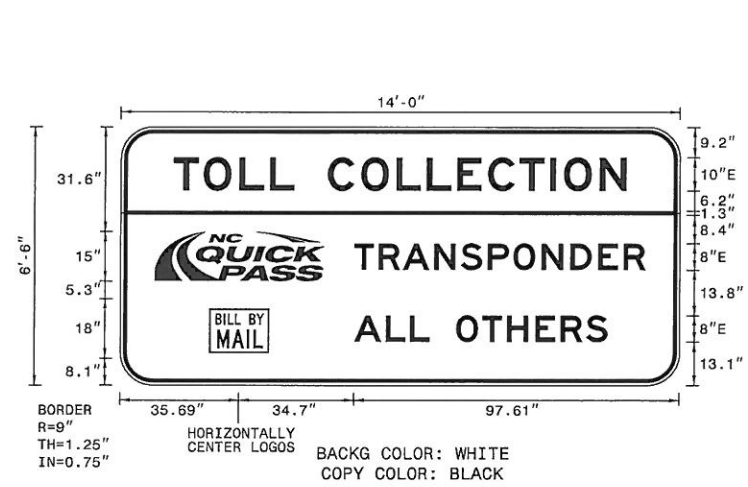


NOTES:

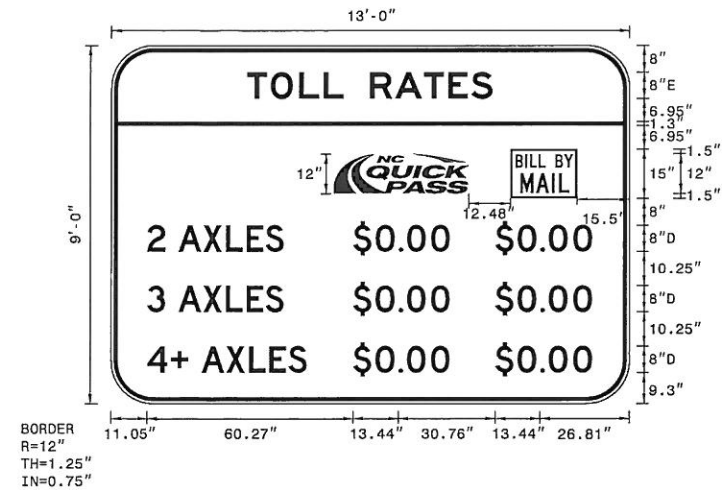
- STANDARD SPACING IS AS SHOWN. MAINTAIN SPACING WITH OTHER SIGNS ACCORDING TO THE MUTCD.
- TOLL RATE SCHEDULE TO BE PROVIDED BY NCTA.



MAINLINE TOLL  
GANTRY  
SIGN PANELS



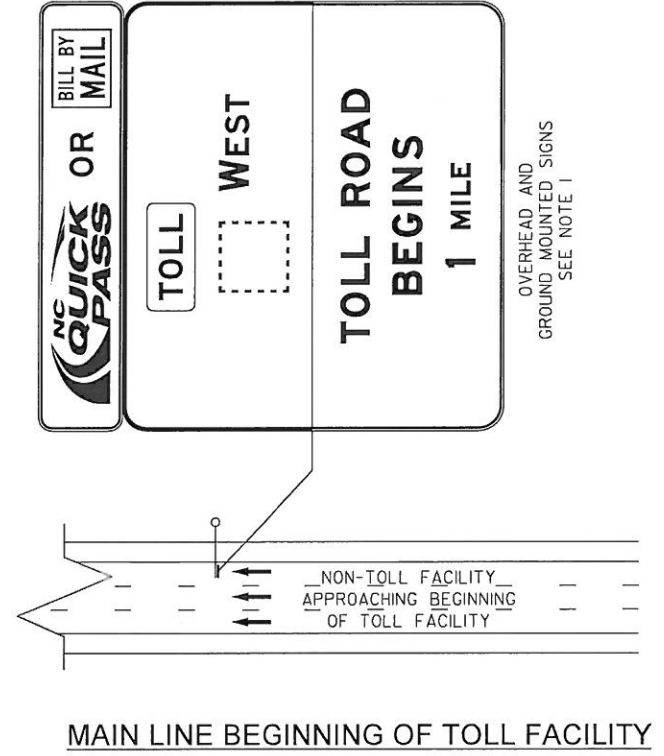
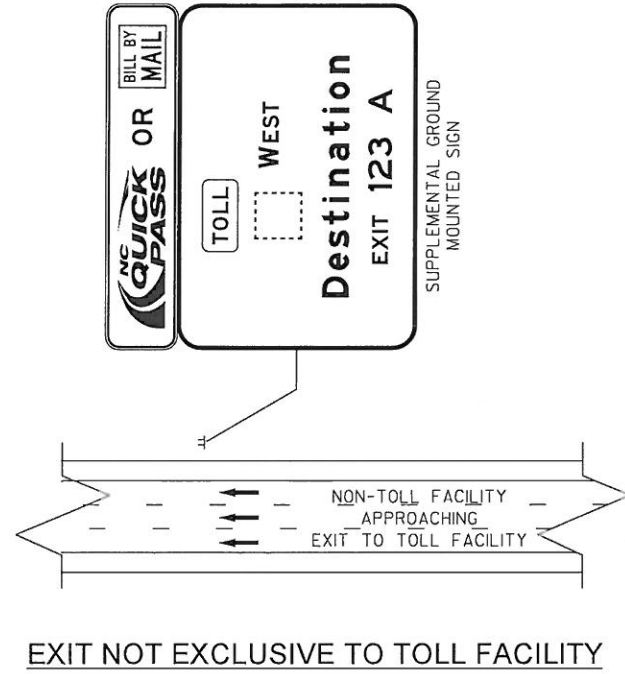
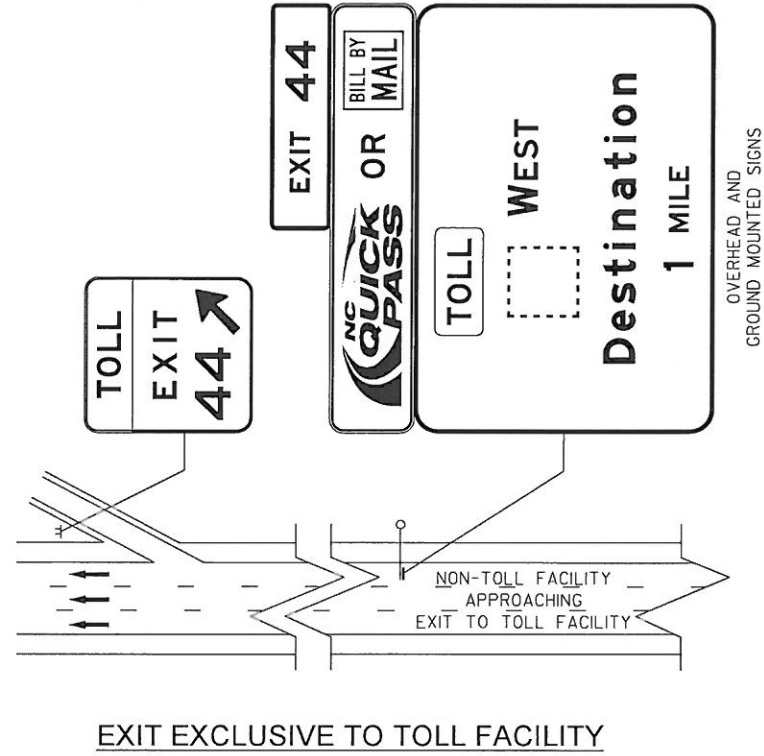
RAMP TOLL  
GANTRY  
SIGN PANELS



NOTES:

1. TOLL RATE SCHEDULE TO BE PROVIDED BY NCTA.
2. MINIMUM SIZES ARE AS SHOWN UNLESS OTHERWISE SPECIFICALLY STATED IN NCTA, NCDOT OR FHWA STANDARDS. IN SUCH CASES, THE LARGEST MINIMUM SHALL APPLY.
3. ETC LOGOS SHALL BE DEMOUNTABLE EXCEPT FOR TRAILBLAZER ASSEMBLIES.
4. VERTICALLY ALIGN DOLLAR AND DECIMAL SYMBOLS.

ENGLISH DETAIL DRAWING FOR  
**TOLL FACILITY SIGNING LAYOUT**



NOTES:

1. ADDITIONAL END ROUTE SIGNING IN ACCORDANCE WITH THE MUTCD SHALL BE INSTALLED AT THE END OF FACILITIES THAT TERMINATE AT A TOLL ROAD.

LEGEND	
—+—	GROUND MOUNTED SIGN ON ONE SUPPORT
—+—+—	GROUND MOUNTED SIGN ON TWO SUPPORTS
—o—	OVERHEAD SIGN SYSTEM

ENGLISH DETAIL DRAWING FOR  
**TOLL FACILITY SIGNING LAYOUT**



ETC PANEL MINIMUM DIMENSIONS

SIGN MAJOR COPY	H	A	B	C	D	E	F	BORDER	INSET
20"	54"	36"	8"	15"E	15"	15"	6"	1.25"	0.75"
16"	42"	30"	6"	12"E	12"	12"	6"	1.25"	0.75"
13.33"	36"	24"	6"	10"E	10"	10"	6"	1.25"	0.75"

BACKG COLOR: WHITE  
COPY & BORDER COLOR: BLACK

MINIMUM PICTOGRAPH SIZES

SIGN MAJOR COPY	NC QUICK PASS	BILL BY MAIL
20"	122.8" x 36"	48" x 36"
16"	102.3" x 30"	40" x 30"
13.33"	81.9" x 24"	32" x 24"
10.67" OR 10"	51.2" x 15"	24" x 18"
8"	40.9" x 12"	20" x 15"
6"	30.7" x 9"	13.33" x 10"
ROUTE SIGN ASSEMBLY	30.7" x 9"	16" x 12"
TRAILBLAZER (24")	20.5" x 6"	10.67" x 8"



ROUTE SIGN ASSEMBLY  
ETC PANEL DIMENSIONS

A	B	C	D	E	F	BORDER	INSET
36"	2.25"	2.75"	9"	4" D	12"	0.875"	0.625"

**TOLL**

"TOLL" PLAQUE (M4-15) SIZES

ROUTE SIGN SIZE	SIZE	COPY
48"	72" x 30"	15"E
36"	54" x 24"	12"E
24"	36" x 18"	8"E
ROUTE SIGN ASSEMBLY	36" x 18"	8"D

BACKG COLOR: YELLOW  
COPY & BORDER COLOR: BLACK

**NO TOLL**

"NO TOLL" PLAQUE SIZES

ROUTE SIGN SIZE	SIZE	COPY
48"	102" x 30"	15"E
36"	84" x 24"	12"E
24"	60" x 18"	8"E

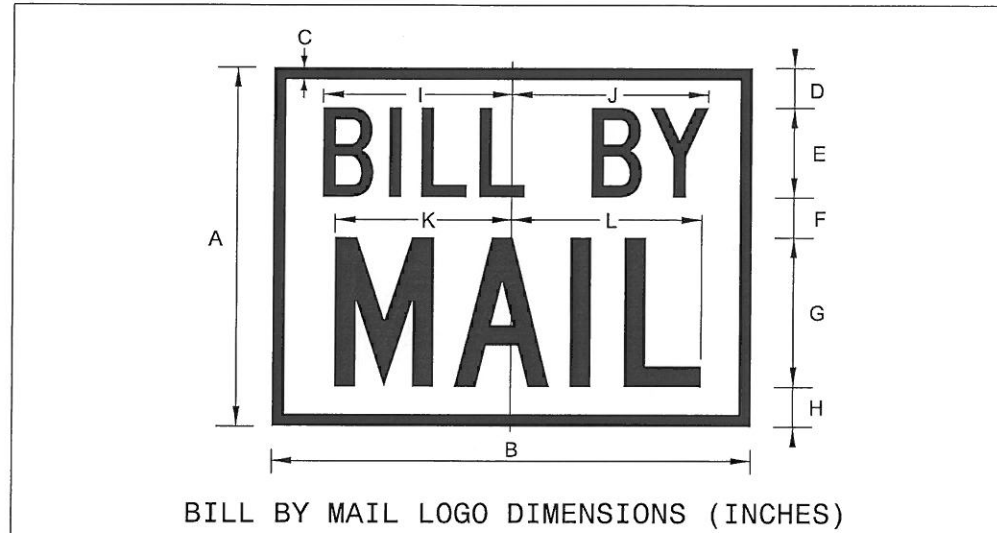
BACKG COLOR: WHITE  
COPY COLOR: BLACK

MISC. SIGN DATA

SIGN	MINIMUM
EXIT GORE "TOLL" PANEL COPY	12"E
"TOLL ROAD BEGINS" SIGN COPY	15"EMOD

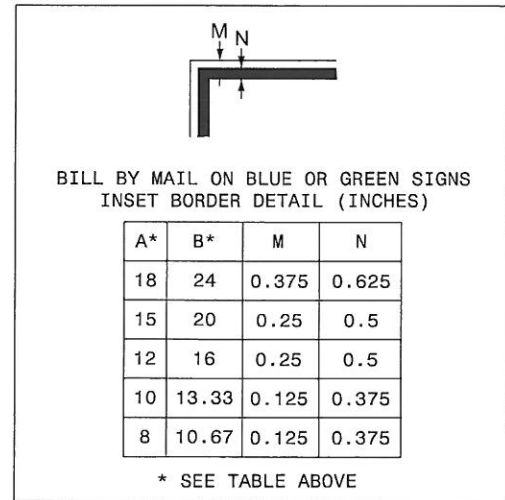
NOTES:

1. ALL SIGNS OR SECTIONS OF SIGNS WITH WHITE OR YELLOW BACKGROUND SHALL HAVE AN INSET BORDER.
2. "TOLL" AND "NO TOLL" PLAQUES MOUNTED ON GREEN OR BLUE SIGNS SHALL NOT HAVE BORDERS.
3. MINIMUM SIZES ARE AS SHOWN UNLESS OTHERWISE SPECIFICALLY STATED IN NCTA, NCDOT OR FHWA STANDARDS. IN SUCH CASES, THE LARGEST MINIMUM SHALL APPLY.
4. PLAQUES AND ETC LOGOS SHALL BE DEMOUNTABLE EXCEPT FOR ROUTE SIGN AND TRAILBLAZER ASSEMBLIES.

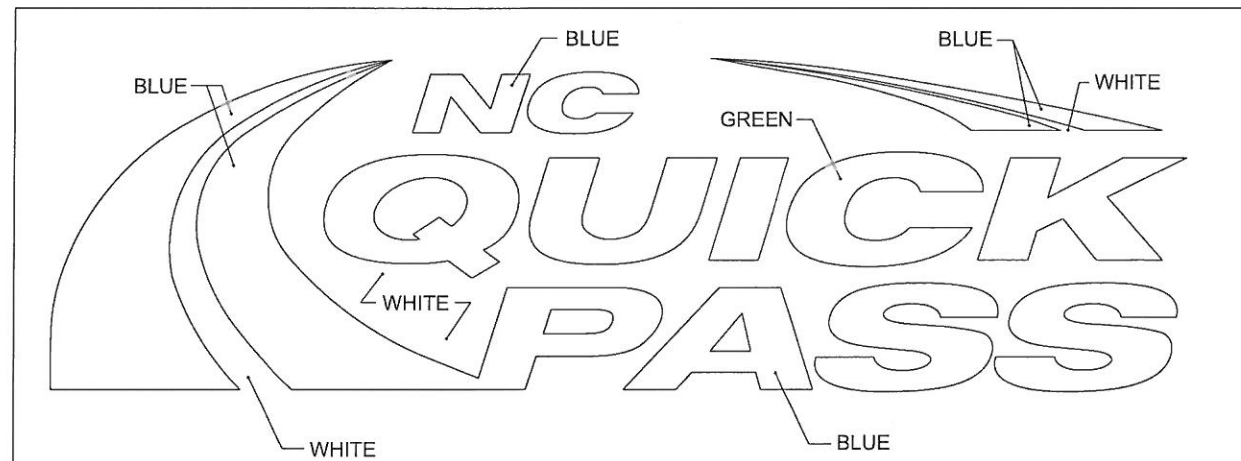


A	B	C	D	E	F	G	H	I	J	K	L
36	48	1.25	4	9 C	4	15 C	4	19	19.61	17.75	19
30	40	0.875	3.3	7.5 C	3.4	12.5 C	3.3	15.833	16.33	14.791	15.833
24	32	0.75	2.6	6 C	2.8	10 C	2.6	12.667	13.074	11.833	12.667
18	24	0.625	2	4.5 C	2	7.5 C	2	9.512	9.817	8.875	9.5
15	20	0.5	1.7	4 C	1.6	6 C	1.7	8.488	8.672	7.056	7.644
12	16	0.375	1.3	3 C	1.4	5 C	1.3	6.333	6.537	5.917	6.333
10	13.33	0.375	1.2	2.5 C	1.1	4 C	1.2	5.294	5.455	4.708	5.093
8	10.67	0.375	0.8	2 C	0.9	3.5 C	0.8	4.224	4.356	4.174	4.402

BACKG COLOR: WHITE  
COPY & BORDER COLOR: BLACK  
SPACING BETWEEN "BILL" AND "BY" IS 0.75 TIMES LETTER HEIGHT  
"BILL BY MAIL" LOGOS MOUNTED ON BLUE OR GREEN SIGNS SHALL HAVE AN INSET BORDER. SEE DETAIL BELOW.

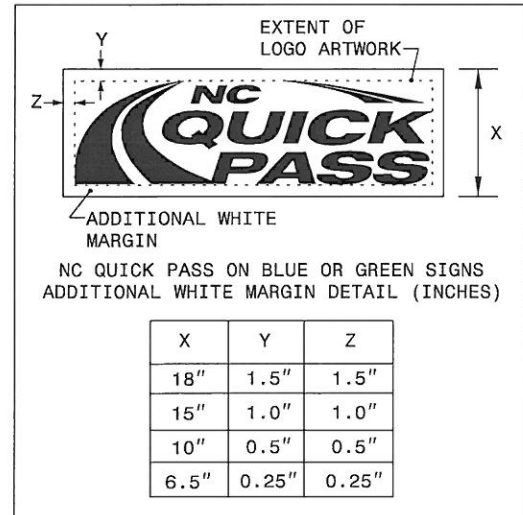


NOTE:  
1. ETC LOGOS SHALL BE DEMOUNTABLE EXCEPT FOR ROUTE SIGN AND TRAILBLAZER ASSEMBLIES.

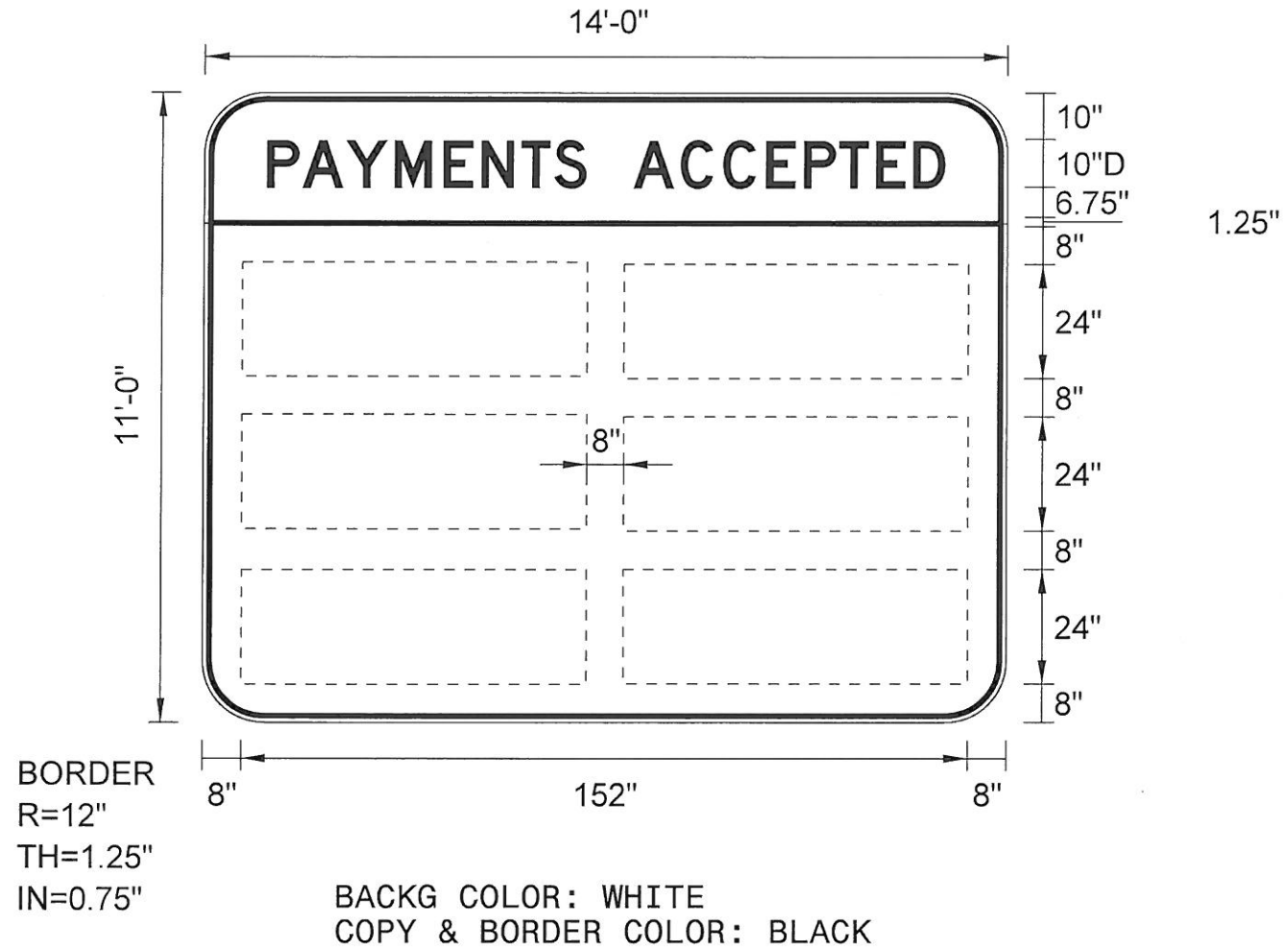


NC QUICK PASS LOGO DETAIL

NOTES:  
A. COLORS FOR USE ON THE NC QUICK PASS LOGO SHALL BE FHWA BLUE AND FHWA GREEN  
B. THE NC QUICK PASS LOGO SHALL BE SCALED PROPORTIONALLY TO MEET REQUIRED DIMENSIONS SHOWN IN THE TOLL SIGNING STANDARDS.  
C. NCTA WILL PROVIDE AN ELECTRONIC ARTWORK FILE OF THE NC QUICK PASS LOGO IN AN EPS FORMAT FOR PANEL FABRICATION.  
D. DO NOT USE BORDER FOR NC QUICK PASS LOGO.  
E. SEE DETAIL BELOW FOR ADDITIONAL WHITE MARGIN REQUIRED FOR BLUE OR GREEN SIGNS.







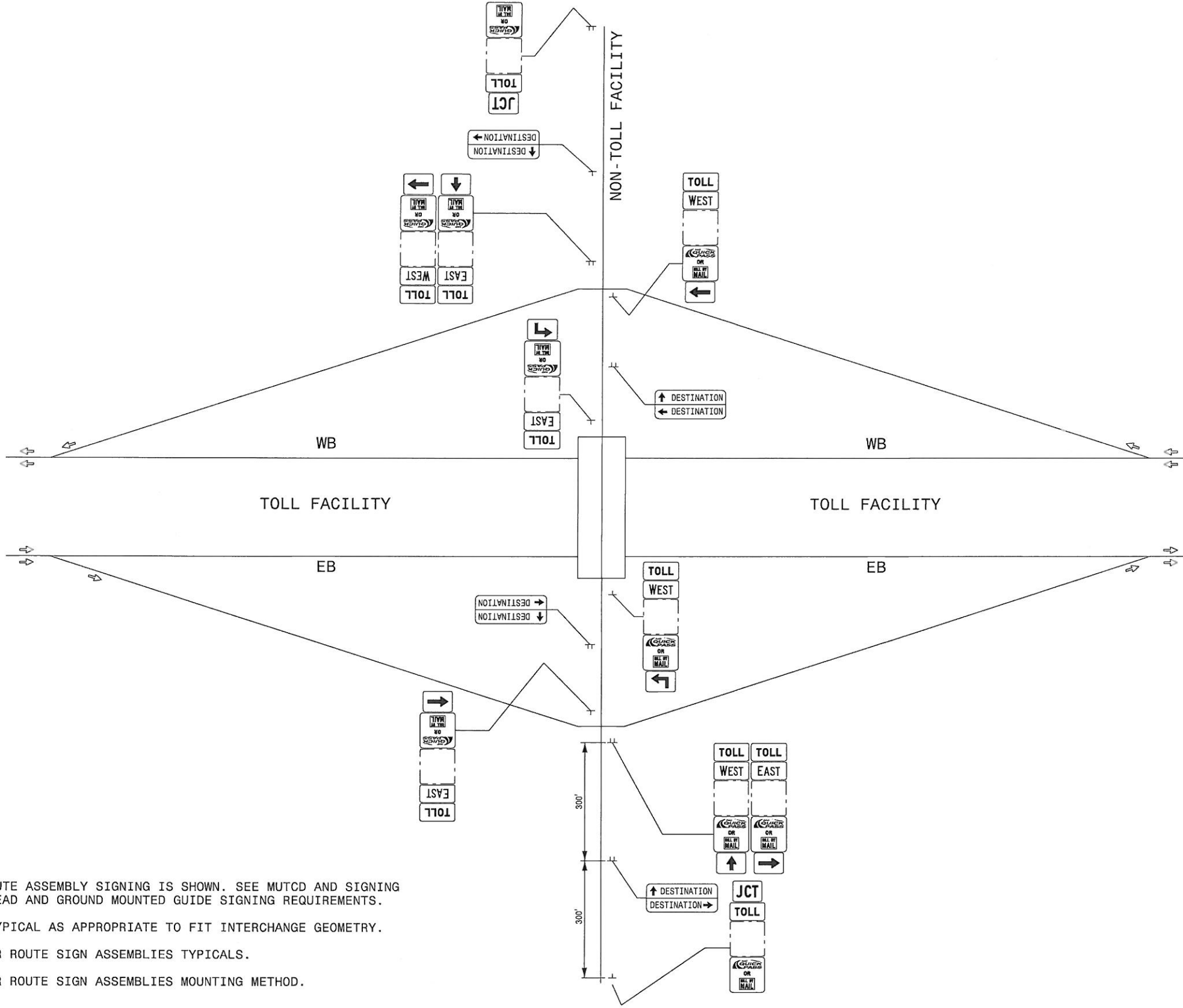
NOTES:

1. MAXIMUM WIDTH OF AN INTEROPERABLE AGENCY'S PANEL SHALL BE 72".
2. MAXIMUM HEIGHT OF AN INTEROPERABLE AGENCY'S PANEL SHALL BE 24".
3. CENTER INTEROPERABLE AGENCY'S LOGO VERTICALLY AND HORIZONTALLY WITHIN SPACE PROVIDED.
4. INTEROPERABLE AGENCY PANEL DESIGN TO BE PROVIDED BY NCTA.

ENGLISH DETAIL DRAWING FOR  
 TOLL FACILITY ROUTE SIGN  
 ASSEMBLIES INTERCHANGE

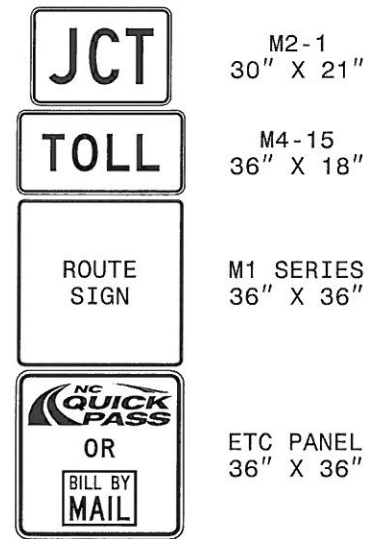
NOTES:

1. MINIMUM REQUIRED ROUTE ASSEMBLY SIGNING IS SHOWN. SEE MUTCD AND SIGNING SCHEMATIC FOR OVERHEAD AND GROUND MOUNTED GUIDE SIGNING REQUIREMENTS.
2. APPLY INTERCHANGE TYPICAL AS APPROPRIATE TO FIT INTERCHANGE GEOMETRY.
3. SEE SHEET TS-2.6 FOR ROUTE SIGN ASSEMBLIES TYPICALS.
4. SEE SHEET TS-2.7 FOR ROUTE SIGN ASSEMBLIES MOUNTING METHOD.

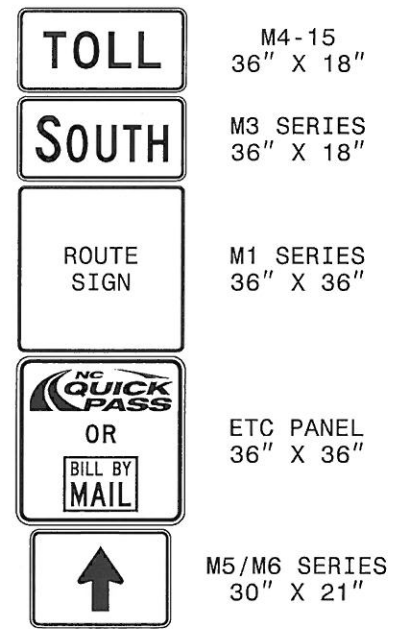


ENGLISH DETAIL DRAWING FOR  
 TOLL FACILITY ROUTE SIGN  
 ASSEMBLIES INTERCHANGE

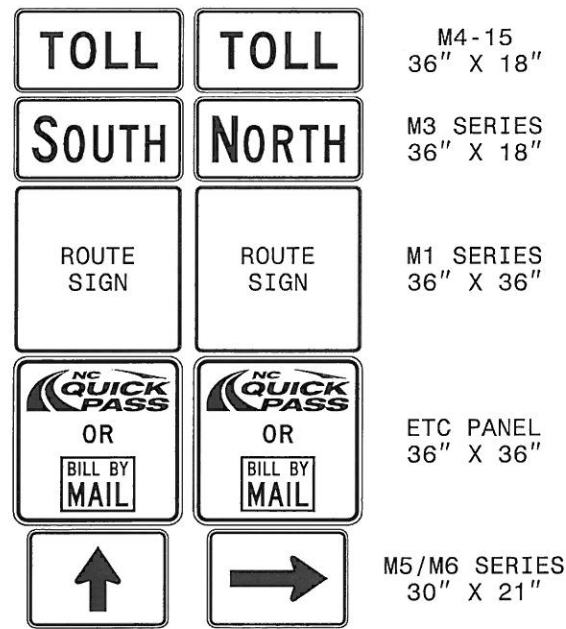
JUNCTION ASSEMBLY



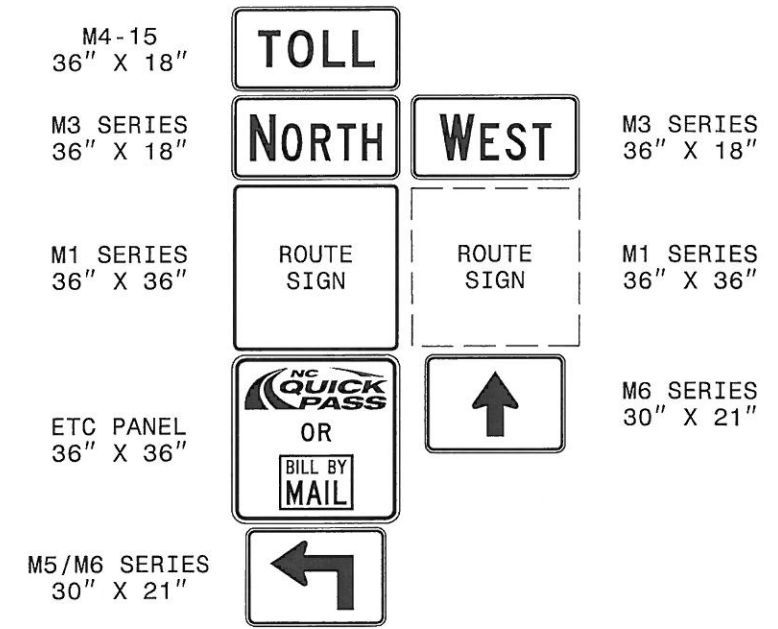
SINGLE ASSEMBLY



DOUBLE ASSEMBLY



DOUBLE ASSEMBLY  
(ONE ASSEMBLY NON-TOLL)



NOTES:

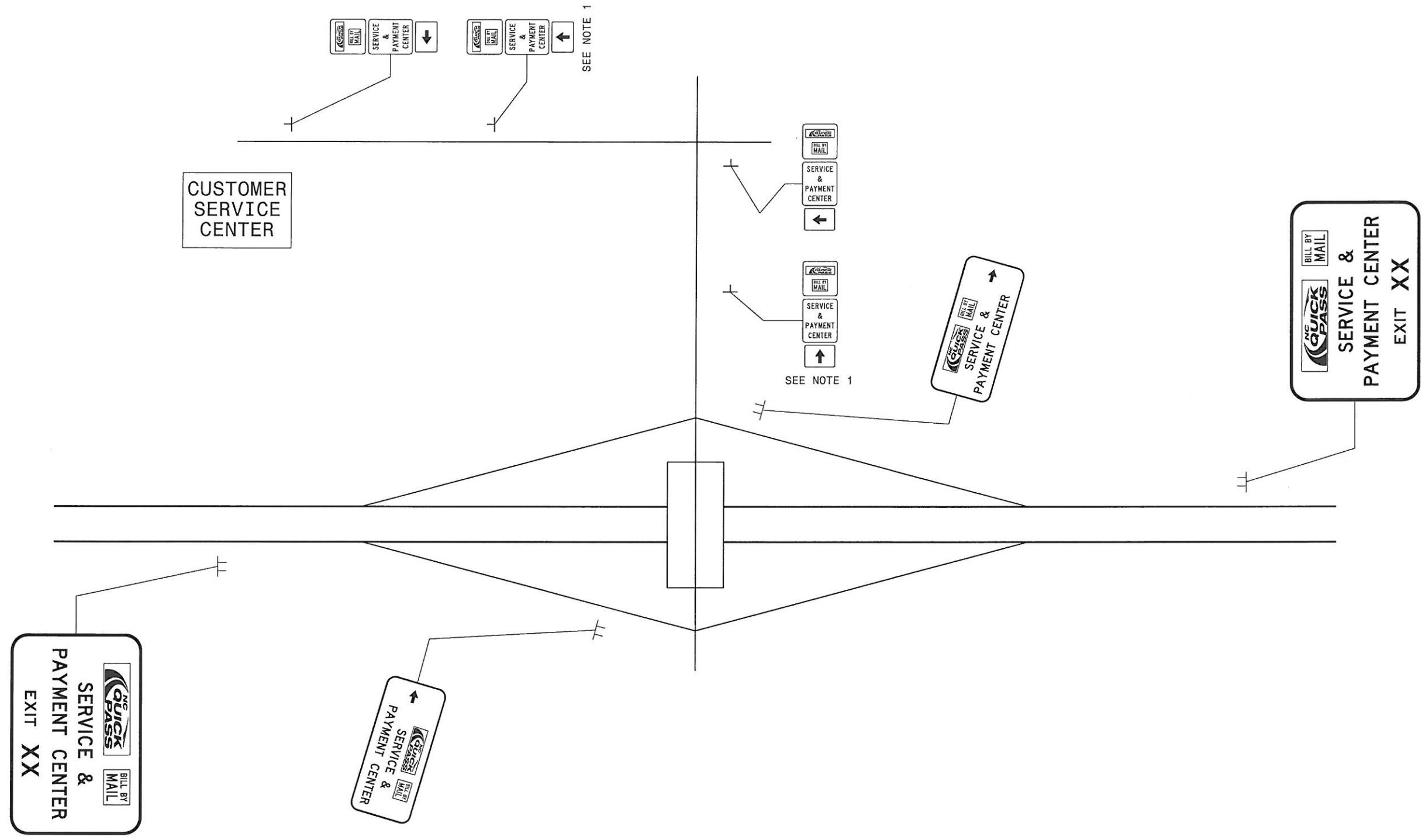
1. MINIMUM SIZES ARE AS SHOWN UNLESS OTHERWISE SPECIFICALLY STATED IN NCTA, NCDOT OR FHWA STANDARDS. IN SUCH CASES, THE LARGEST MINIMUM SHALL APPLY.
2. ANY REQUIRED AUXILIARY SIGNS NOT SHOWN (M4 SERIES) SHALL BE DESIGNED IN ACCORDANCE WITH THE "OVERSIZED" COLUMN OF MUTCD TABLE 2D-1.
3. SEE SHEET TS-2.7 FOR ROUTE SIGN ASSEMBLIES MOUNTING METHOD.



ENGLISH DETAIL DRAWING FOR  
**CUSTOMER SERVICE CENTER  
 SIGNING LAYOUT**

NOTE:

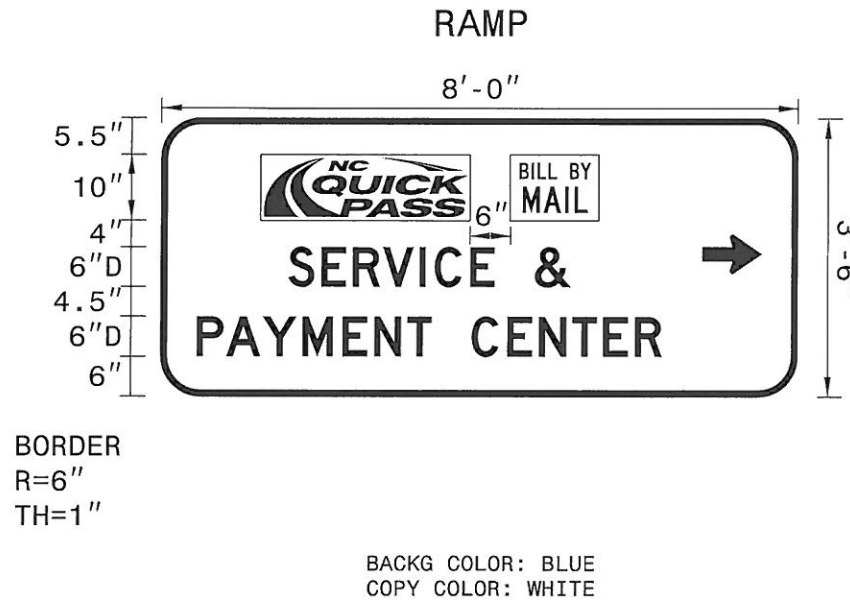
- 1. INSTALL TRAILBLAZER(S) BETWEEN TURNS WITH ONE HALF MILE MAXIMUM SPACING.



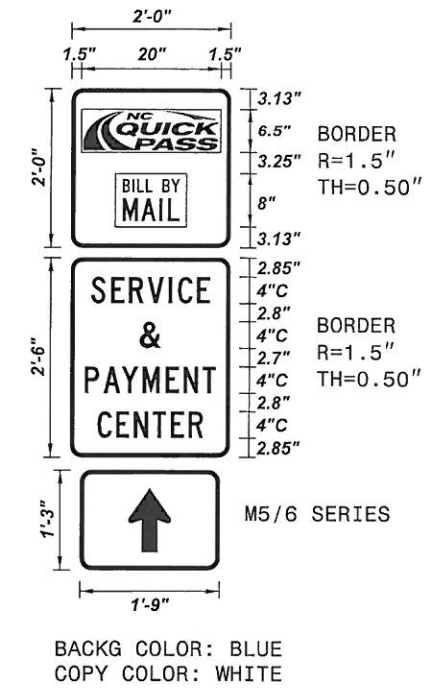
**LEGEND**

- ⊥ TRAILBLAZER
- ⊥ SIGN ON TWO SUPPORTS

ENGLISH DETAIL DRAWING FOR  
**CUSTOMER SERVICE CENTER  
 SIGNING LAYOUT**



TRAILBLAZER



NOTES:

1. MINIMUM SIZES ARE AS SHOWN UNLESS OTHERWISE SPECIFICALLY STATED IN NCTA, NCDOT OR FHWA STANDARDS. IN SUCH CASES, THE LARGEST MINIMUM SHALL APPLY.
2. ETC LOGOS SHALL BE DEMOUNTABLE EXCEPT FOR TRAILBLAZER ASSEMBLIES.