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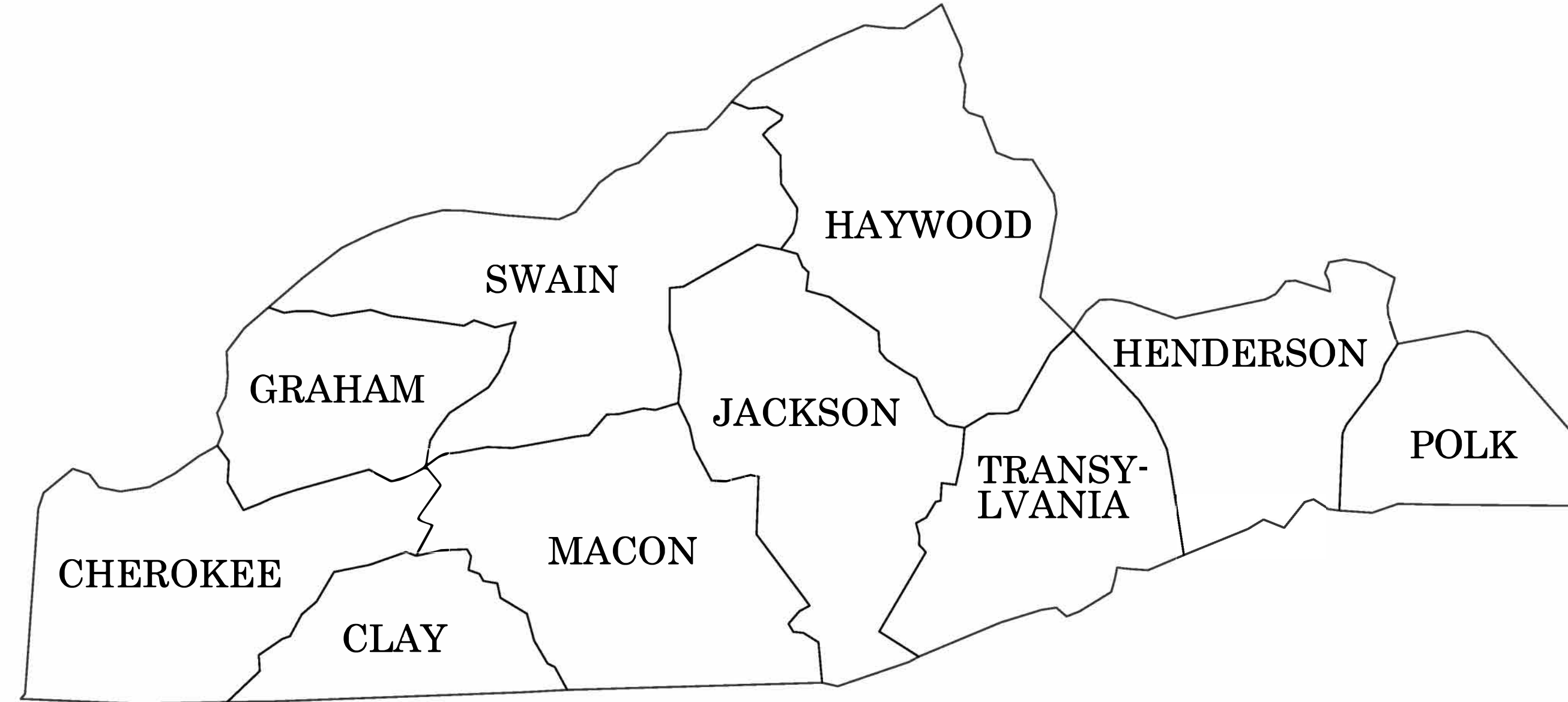
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

DIVISION 14

LOCATION: *VARIOUS LOCATIONS
ACROSS DIVISION 14*

TYPE OF WORK: *ID/IQ ON-CALL SIGNING*

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DN12068218	1	2
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
14.102012			
14.102212			
14.103812			
14.104412			
14.104432			
14.104512			
14.104532			
14.105012			
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14.108812			
36111.1.14			

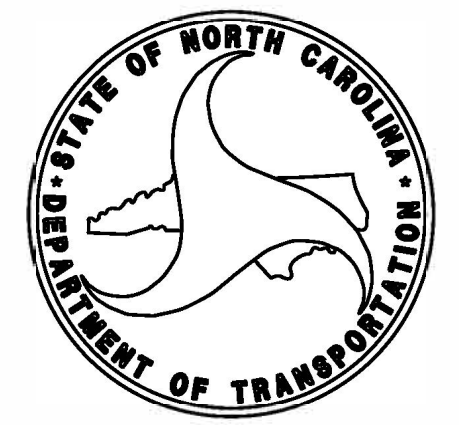


CONTRACT: DN12068218

Prepared in the Office of:
DIVISION OF HIGHWAYS
253 WEBSTER RD., SYLVA NC, 28779

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: N/A	SPENCER MCDONALD PROJECT ENGINEER
LETTING DATE: 6 / 13 / 2023	




INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS AND STANDARD DRAWINGS
2B-1 THRU 2B-4	ROADWAY DETAILS

2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - 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:

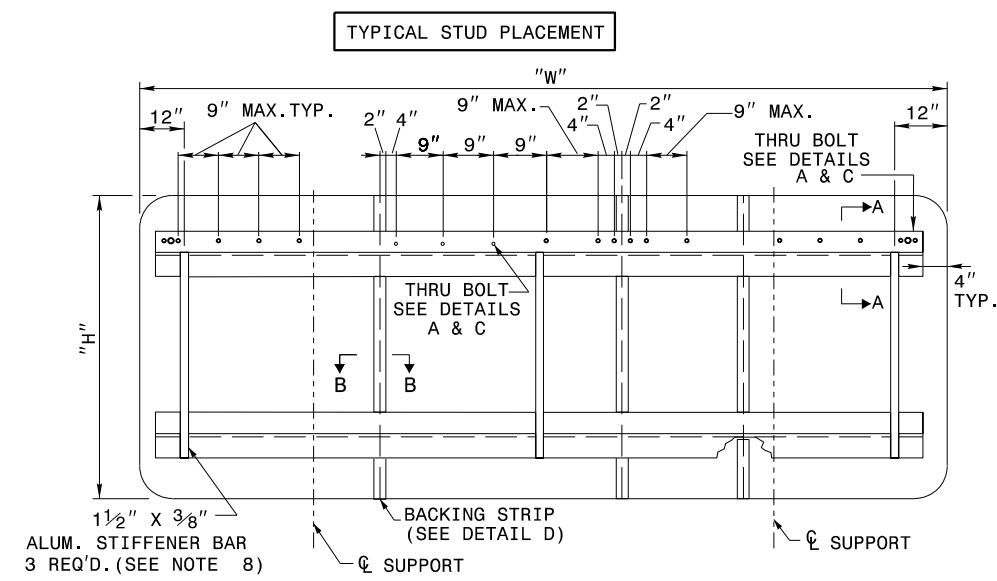
STD.NO.	TITLE
DIVISION 9 - SIGNING	
901.10	Type 'A' Signs - Welded Stud Construction
901.20	Type " Signs - Welded Stud Construction
901.50	Arrows and Shields
901.60	Rivet Spacing for Overlaid Signs
901.70	Sign Stringers and Support Spacing
901.80	Sign Mounting Details - Type 'A' and 'B' Signs
903.10	Ground Mounted Sign Supports
903.20	Wood Sign Post
903.30	Barrier Sign Support Assembly
903.40	Median Barrier Sign Support and Anchorage
904.10	Orientation of Ground Mounted Signs
904.20	Secondary Sign Mounting
904.30	Supplemental Sign Mounting
904.40	Milepost and Placement
904.50	Mounting of Type 'D', 'E' and 'F' Signs on 'U' Channel Posts
910.10	Highway-Rail Grade Crossings
910.20	Signing School Zone
910.30	Signing for Superstreets
910.40	Signing for Roundabouts
910.50	Signing for Speed Reduction Zones

TIP NO.	SHEET NO.
DocuSigned by:	
APPROVED: <i>Matthew V. Springer</i>	
DATE: 3/21/2019	BC60F6E8B584403...
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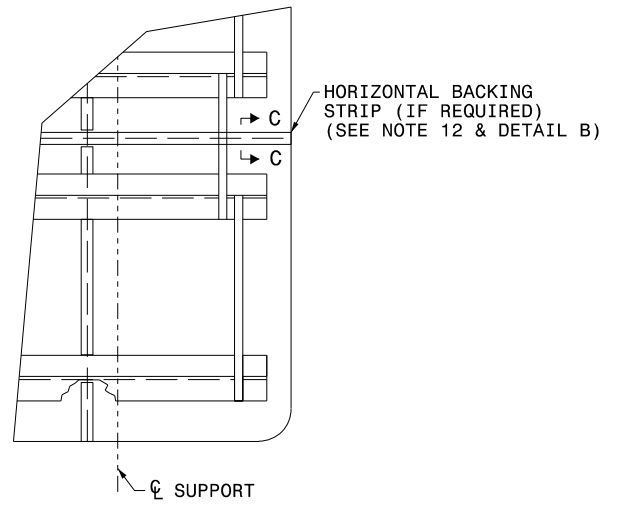
2-19

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



1 1/2" x 3/8" ALUM. STIFFENER BAR
3 REQ'D. (SEE NOTE 8)

HORIZONTAL BACKING STRIP



NOTES:

1. USE THE NUMBER AND SIZE OF SUPPORTS SHOWN ON THE SUPPORT CHART IN PROJECT PLANS.
2. 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.
3. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, FOR TYPE OF MATERIAL TO BE USED FOR SIGN PANELS, HANGER ASSEMBLIES, AND SUPPORTS.
4. USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS.
5. SEE ROADWAY STANDARD 904.20 WHEN TYPE "B" SECONDARY SIGN MOUNTING IS REQUIRED.
6. DETAILS FOR TYPE "A" SECONDARY SIGNS SHALL BE THE SAME AS FOR TYPE "A" SIGNS.
7. THE VERTICAL DIMENSION BETWEEN PRIMARY AND SECONDARY SIGNS IS TWO (2) INCHES.
8. ADJUST STIFFENERS TO AVOID CONFLICT WITH SUPPORTS.
9. SEE ROADWAY STANDARD 901.70 FOR SUPPORT AND "Z" BAR SPACING.
10. 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)
11. FABRICATE SIGNS TALLER THAN 12'-0" BUT SHORTER THAN 14'-6" WITH A HORIZONTAL SPLICE LOCATED 7'-0" FROM BOTTOM OF SIGN.
12. 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.
13. THERE SHALL ONLY BE A 1/8" GAP BETWEEN THE VERTICAL BACKING STRIP AND THE "Z" BAR.
14. SEE ROADWAY STANDARD 901.80 FOR DETAILS SHOWING SIGN MOUNTING TO SUPPORTS.
15. PLACE NYLON WASHER UNDER HEAD OF 3/8" THRU BOLTS.
16. 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.
17. 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.
18. THRU BOLTS WILL HAVE A MINIMUM 1/16" TO MAXIMUM 1/8" GAP

STATE OF NORTH CAROLINA
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2-19


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

SHEET 1 OF 2

901D10

**REVISED SIGNING
ROADWAY STANDARD DRAWING**

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<i>Matthew V. Springer</i>	
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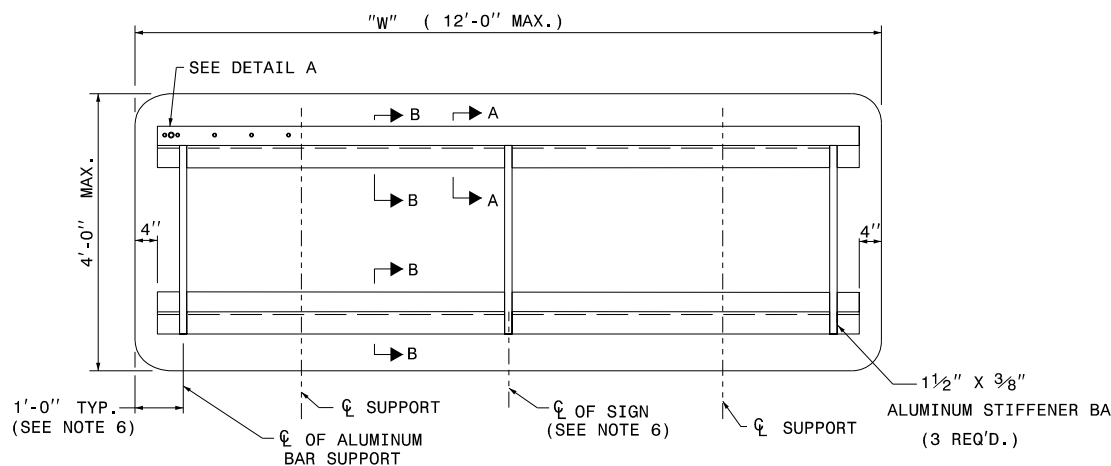
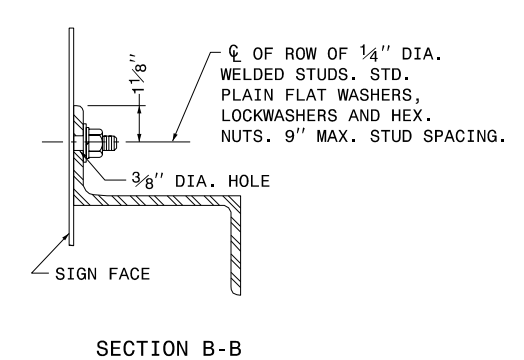
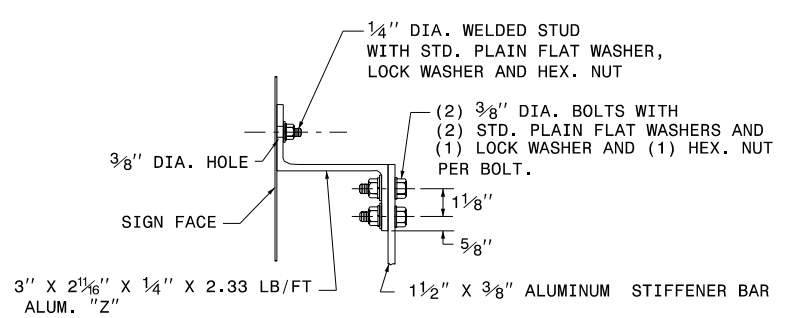
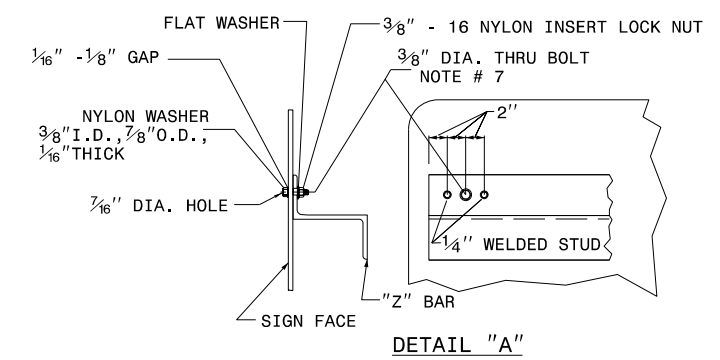
ENGLISH DETAIL DRAWING FOR
TYPE 'B' SIGNS
 WELDED STUD CONSTRUCTION

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


SHEET 1 OF 1
901D20



- 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.

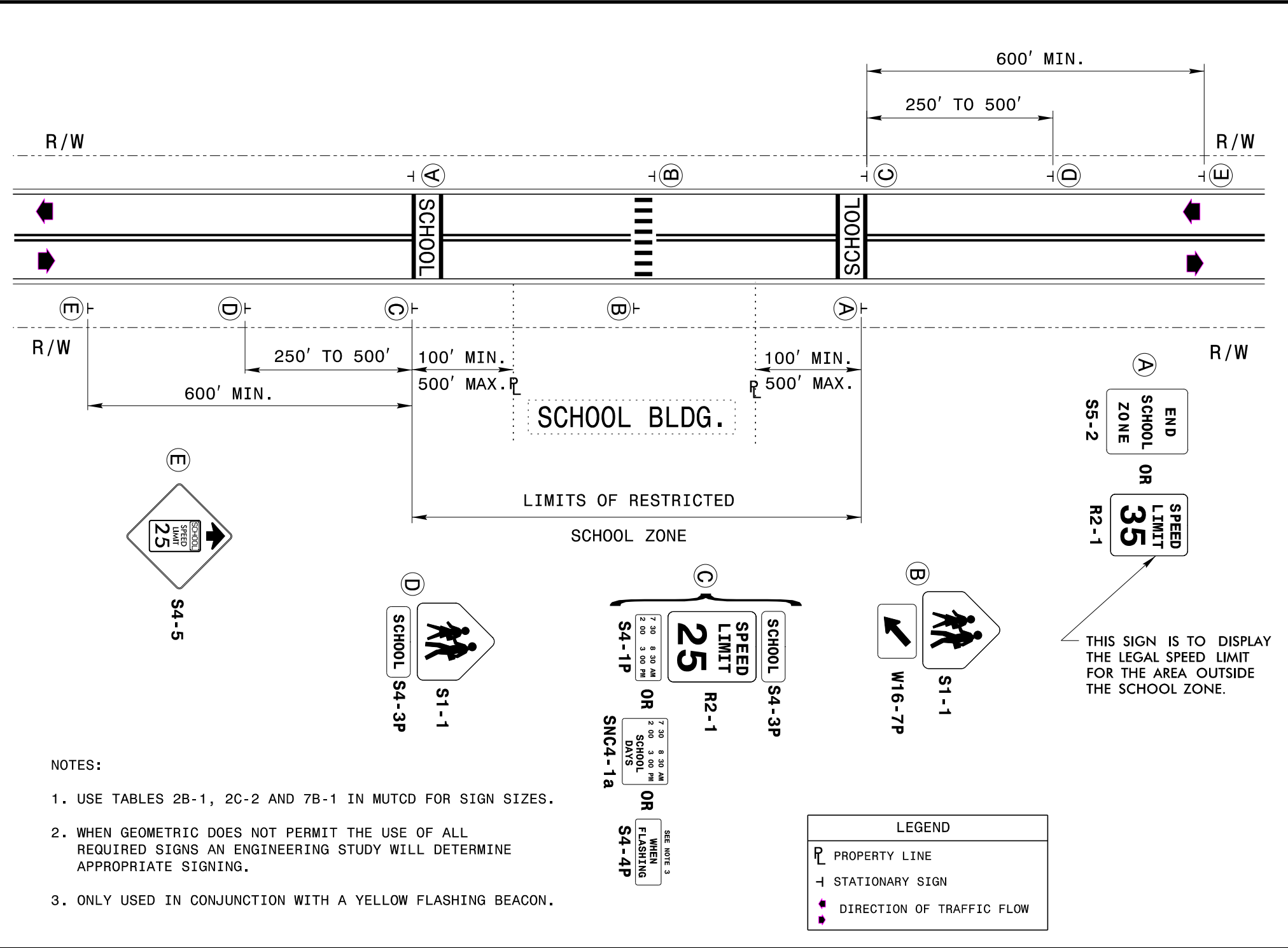
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**REVISED SIGNING
ROADWAY STANDARD DRAWING**

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ENGLISH DETAIL DRAWING FOR
 SIGNING SCHOOL ZONE WITH
 MARKED CROSSWALK
 WHERE SPEED REDUCTION IS REQUIRED




STATE OF NORTH CAROLINA
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ENGLISH DETAIL DRAWING FOR
 SIGNING SCHOOL ZONE WITH
 MARKED CROSSWALK
 WHERE SPEED REDUCTION IS REQUIRED

REVISED SIGNING
 ROADWAY STANDARD DRAWING

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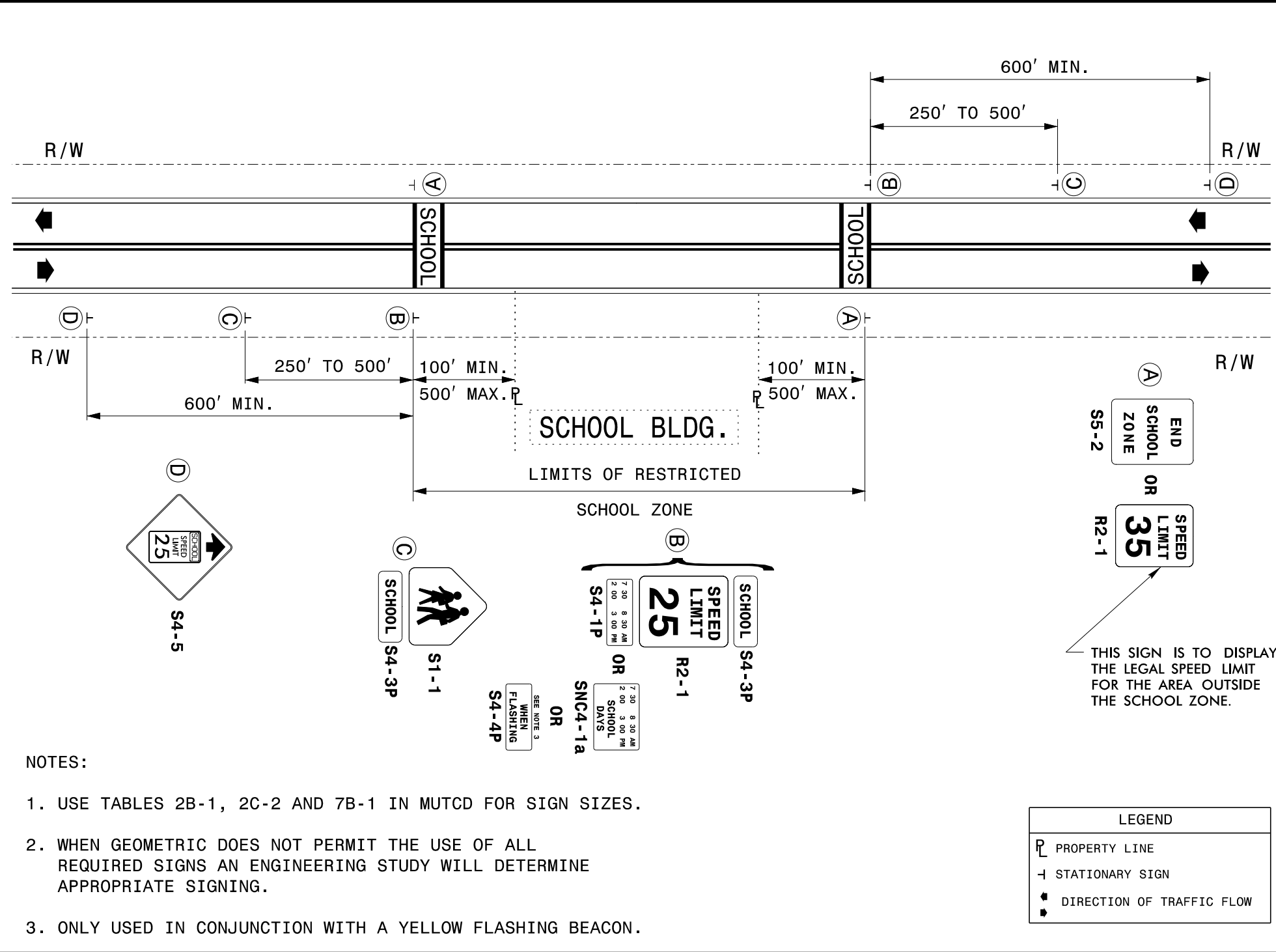
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ENGLISH DETAIL DRAWING FOR
SIGNING SCHOOL ZONE
WITHOUT MARKED CROSSWALK
WHERE SPEED REDUCTION IS REQUIRED

SHEET 3 OF 4

910D20



STATE OF NORTH CAROLINA
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RALEIGH, N.C.

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ENGLISH DETAIL DRAWING FOR
SIGNING SCHOOL ZONE
WITHOUT MARKED CROSSWALK
WHERE SPEED REDUCTION IS REQUIRED

SHEET 3 OF 4

910D20

LEGEND	
	PROPERTY LINE
	STATIONARY SIGN
	DIRECTION OF TRAFFIC FLOW

THIS SIGN IS TO DISPLAY THE LEGAL SPEED LIMIT FOR THE AREA OUTSIDE THE SCHOOL ZONE.

REVISED SIGNING
ROADWAY STANDARD DRAWING