

SECTION S: PERMANENT SIGNING PLANS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	S1	S35

Plotting Date: 09/11/2024

INDEX OF SHEETS

- S1: General Layout with Index
- S2-S3: Estimate of Quantities and Plan Notes
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- S25-S28: Typical Details
- S29-S35: Standard Plates



BEGIN NH-CR 0046(69)288
 Station 9+55.00 = Station 596+28.20 on S 7561(2) located 5.25 feet north and 715.04 feet east of the north quarter corner of Section 5 - Township 95 North - Range 63 West of the 5th P.M. MRM 288+0.128

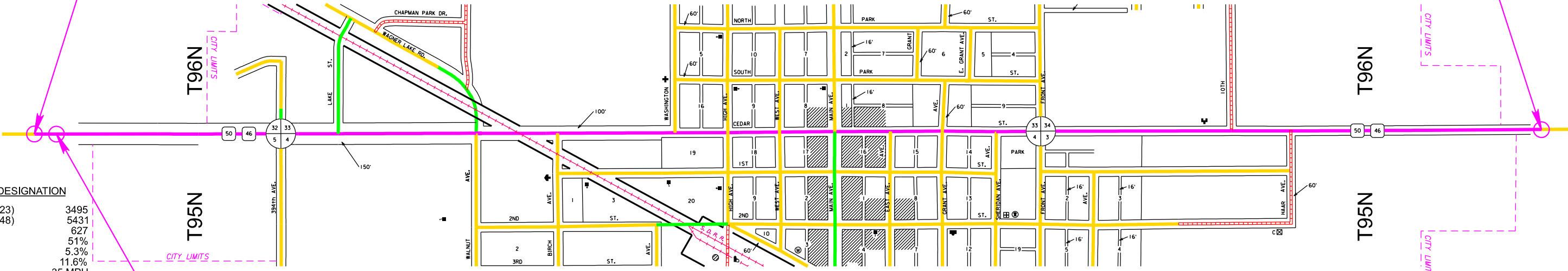
END NH-CR 0046(69)288
END GRADING
 Station 124+66.00 = Station 5+28.33 on F 012-1(5) located 17.86 feet south and 1021.84 feet west of the northeast corner of Section 3 - Township 95 North - Range 63 West of the 5th P.M. MRM 290.1+0.200

DESIGN DESIGNATION

AADT (2023)	3495
AADT (2048)	5431
DHV	627
D	51%
DHV T%	5.3%
AAADT T%	11.6%
V	35 MPH

STORM WATER PERMIT
 Major Receiving
 Body of Water: Choteau Creek
 Area Disturbed: 25 Ac
 Total Project Area: 38 Ac
 Approx. Begin Lat,Long: 43.0817, -98.3152

BEGIN GRADING
 Station 11+00.00



PLOT SCALE - 1:200.042

PLOTTED FROM - TRM113314

PLOT NAME - 1

FILE - ... \95JN SECTION S CONTAINER.DGN

SECTION S – ESTIMATE OF QUANTITIES

NH-CR 0046(69)288, PCN 05JN

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E0130	Remove Traffic Sign	84	Each
110E0135	Remove Delineator	17	Each
110E7150	Remove Sign for Reset	5	Each
632E1320	2.0"x2.0" Perforated Tube Post	614.9	Ft
632E1340	2.5"x2.5" Perforated Tube Post	144.5	Ft
632E2022	4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post	6	Each
632E2510	Type 2 Object Marker Back to Back	17	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	508.0	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	318.1	SqFt
632E3500	Reset Sign	5	Each

GENERAL PERMANENT SIGNING

New sign installations will be staked in the field by the Contractor and checked by the Engineer. The Contractor will give the Engineer a minimum of one week to check staked locations prior to signpost installation. Lateral offset of signs will be as shown in the plans or as directed by the Engineer.

The Contractor will be responsible for contacting South Dakota One Call to locate the utilities at the staked sign installation locations.

When signs are mounted in an assembly, they will be 1-2 inches apart vertically and horizontally.

The height of the post must not exceed the minimum height needed by more than 0.5 feet. Any portion that extends above the sign will be cut off. No separate payment will be made for cutting the post or for that length cut off.

Aluminum U-Channel stiffeners will be used on all signs 36 inches or greater in width and will conform to ASTM B221 Alloy 6063-T6 or 6061-T6. The U-Channel will be 2 inches in width and free of holes. The U-Channel stiffeners will also be used to connect various signs together so that an entire sign assembly can be erected on a single installation. Stiffeners may be fastened to signs by use of 1/4-inch diameter drive rivets.

The Contractor will use 3/8-inch diameter rust proof machine sign bolts, flat metal washers, neoprene washers (against the sign sheeting), lock washers, and nuts to fasten the sign to the channel aluminum and posts. A minimum of two bolts will extend through each post.

Prior to ordering signs, the Contractor will verify dimensions, background, border, and legend of the signs.

Prior to use, the Contractor will provide documentation for the sign support devices showing they meet the applicable NCHRP 350 or MASH requirements.

REMOVE TRAFFIC SIGN

Existing signs that are shown as being removed in the Permanent Signing Table will become the property of the Contractor. Existing signposts and bases will be removed in their entirety. All existing signs, posts, and/or hardware removed will not be reused. Holes remaining from the removal of wood posts will be backfilled and compacted with material placed in layers not to exceed 6 inches in depth.

REMOVE TRAFFIC SIGN (CONTINUED)

All costs associated with the removal of existing signs, posts, hardware, and backfilled holes will be incidental to the contract unit price per each for "Remove Traffic Sign". Quantities will be per assembly at the contract unit price per each.

REMOVE SIGN FOR RESET AND RESET SIGN

Signs that are scheduled for reset will be dismantled and reassembled to the extent needed by the Contractor to properly reset the sign. Signs will be handled with care so that the existing signs, posts, and bases are not damaged during the relocation process. The Contractor will replace and pay for any reset signs damaged in their care. The Contractor will remove and dispose of any existing posts for all reset signs that require use of new posts as shown in the Table of Permanent Signing.

All costs for removing, dismantling, and disposing of any existing posts will be incidental to the contract unit price per each for "Remove Sign for Reset". All costs for resetting the existing signs will be incidental to the contract unit price per each for "Reset Sign". All quantities for Remove Sign for Reset and Reset Sign will be per assembly at the contract unit price per each.

NEW PERMANENT SIGNING

All signs will be manufactured in accordance with the sheeting manufacturer's recommendations utilizing a matched component system, including inks, electronic cuttable films, and protective overlay films.

All Flat Aluminum Signs, Nonremovable Copy High Intensity will have sheeting in conformance with the requirements of ASTM D4956 Type IV. All Flat Aluminum Signs, Nonremovable Copy Super/Very High Intensity will have sheeting in conformance with the requirements of ASTM D4956 Type XI.

All costs associated with furnishing and installing the new permanent signs, and with furnishing and installing stiffeners and hardware will be incidental to the contract unit price per square foot for "Flat Aluminum Sign, Nonremovable Copy High Intensity" or "Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity".

DIGITALLY PRINTED SIGNS

Digitally printed signs will be allowed on this project. If the Contractor elects to provide digitally printed signs, such signs will adhere to the following specifications.

PROTECTIVE OVERLAY FILM

Permanent traffic signs printed with digital ink systems will be fabricated with a full sign protective overlay film designed to provide a smooth surface needed for retroreflectivity, and to protect the sign from fading and UV degradation. The overlamine will comply with the retroreflective sheeting manufacturer's recommendations to ensure proper adhesion and transparency and will also meet the reflective film durability as identified in Table 1.

DIGITALLY PRINTED SIGNS (CONTINUED)

Table 1: Retroreflective Film Minimum Durability Requirements

ASTM D4956 Type	Full Sign Replacement Term (years)	Sheeting Replacement Term (years)
I	0	7
III	7	10
IV	7	10
VIII	7	10
IX	7	12
XI	7	12

FABRICATION

Retroreflective sheeting will be applied to a properly cleaned and prepared aluminum sign blank in accordance with the retroreflective sheeting manufacturer's recommendations. Sign legend will be applied using digital print technologies and systems in accordance with the retroreflective sheeting manufacturer's recommendations and the requirements of these plans.

Finished signs will be free of ragged edges and must be supplied clean and free of scratches, grease, oil, lubricants or other contaminants. Minor blemishes (dirt speck, dust, etc.) may settle on the fresh ink surface or become entrapped between the sheeting surface and transparent overlay film due to static charge within the sign shop environment. Any blemish must be minor and not interfere with the communication of the sign message to the motorist. The blemish must not be visible to the naked eye when viewed from 30 feet or greater.

After application of the retroreflective sheeting, sign blanks will be stacked and packaged face to face, back to back, and protected in accordance with the sheeting manufacturer's recommendations. Finished signs will be securely packaged to prevent damage during transit or storage according to the sheeting manufacturer's recommendations.

TRAFFIC SIGN PERFORMANCE WARRANTY PROVISIONS

Based on the ASTM Type of sheeting specified, traffic control signs will be warranted for the duration shown in Table 1. Full product terms and conditions are as established by each sheeting manufacturer and may contain certain limitations based on sheeting and ink colors, and geographic exposure of the sign. A copy of the warranty document with complete details of terms and conditions will be supplied if requested by the Engineer.

CERTIFIED DIGITAL SIGN FABRICATOR

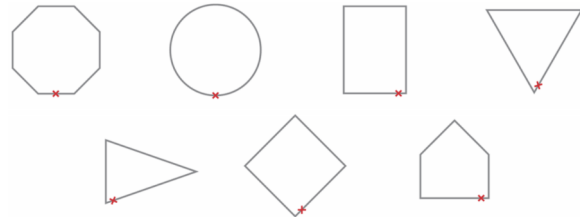
Sign fabricators using digital imaging methods to produce regulated traffic signs must be certified by the reflective sheeting manufacturer whose materials are used to produce the delivered signs.

DIGITALLY PRINTED SIGNS (CONTINUED)

DATE TAGGING SIGNS WITH PERTINENT INFORMATION

All digitally printed signs are required to be date-tagged with the following 2 components:

- Date tags on the back of signs
Tags will have the following information and be fabricated with material and printing system that are as durable as the warranted sign.
 - Name of Sign Fabricator
 - Date the sign was fabricated (month and year)
 - Process that was used for sign fabrication (digitally printed)
 - Supplier of sheeting that was used for fabricating the sign.
- Border date
The month and year (mm/yyyy) of sign fabrication will be printed in the border of the sign in 3/8" sans serif font. Border date will be printed with the same warranted printed system as the sign face. The date should be printed in the locations indicated below.



DATE DECAL

The Contractor will affix a date decal to each new sign installed. The date decal is a 2 inch by 2 inch self-adhesive sticker with removable paper backing. The date decal displays the last two digits of the year the sign was installed.

SQUARE TUBE ANCHOR SLEEVE

The Contractor will furnish and install new 2.5" x 2.5" x 18", 12 Gauge square tube anchor sleeve or equivalent components as approved by the Engineer for 2.0" x 2.0" perforated tube posts. A 2.25" x 2.25" x 4', 12 Gauge perforated tube post will be used as the anchor post for installation with the square tube anchor sleeve.

SQUARE TUBE POST SLEEVE

All 2.5" x 2.5", 12 Gauge perforated tube post will be sleeved with a 2-1/4" x 2-1/4" x 4', 12 Gauge perforated tube post.

WINGED SLIP BASE ANCHOR

The Contractor will furnish and install new winged slip base anchors for 2.5" x 2.5" perforated tube posts as required in the Permanent Signing Table. Winged slip base anchors will be installed using the direct drive method. Winged slip base anchors will consist of a slip base (upper), a 48-inch long winged anchor (lower), and a hardware kit.

OVERHEAD AND POLE MOUNTED SIGNS

The Contractor will install the new overhead signs with new connection hardware and mast arm mounting hardware.

Signs that are mounted on luminaire and signal poles and on signal mast arms will be attached with high strength stainless steel bands or galvanized pole clamps. Signs will be attached as recommended by the manufacturer. All sign mounting hardware will be stainless steel or galvanized steel.

Pole mounted signs will be mounted a minimum of 7 ft above the ground. Mounting heights are measured to the bottom of the signs.

All costs for pole and mast arm sign mounting hardware will be incidental to the contract unit price per square foot for "Flat Aluminum Sign, Nonremovable Copy High Intensity" or "Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity".

MILEAGE REFERENCE MARKERS

Mileage Reference Markers (MRMs) are not to be disturbed without the approval of the Engineer. If an MRM is attached to a sign listed for replacement it will be salvaged and reattached to the new sign in the same location. Payment for this work will be incidental to the various signing contract items.

REMOVE CONCRETE FOOTING

Concrete footings that are to be removed will be removed by the Contractor to a minimum of 2' below the ground surface. Restoration of the disturbed area will be to the satisfaction of the Engineer.

The existing footings located at 116+95 – 26' R will be removed by the Contractor as per these plans.

All costs for removing the concrete footings will be incidental to the contract lump sum price for "Remove Concrete Footing(s)".

DELINEATION

4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post			
632E2022			
STATION (SD46)		SPACING	QUANTITY
119+36 L&R	TO 124+66 L&R	200'	6
# - ALTERNATING	TOTALS		6

NOTE-SPACING IS STILL 528 FOR 264' ALTERNATING, NOT 264

OBJECT MARKER TABLE

Type 2 Object Markers at culvert, cattle pass end, or multiple pipes with outside dimension or a combined width of less than 60":

OBJECT MARKERS AT PIPE			
632E2510 Back-to-Back			
Station (SD46)	QUANTITY	Station (SD46)	QUANTITY
11+09 L	1	38+53 L	1
18+53 L	1	41+34 L&R	2
27+63 L	1	41+57 L&R	2
29+34 R	1	119+25 L	1
35+37 R	1		
TOTAL AT PIPES			11

Type 2 Object Markers at culvert, cattle pass end, or multiple pipes with outside dimension or a combined width of greater than 60":

OBJECT MARKERS AT PIPE			
632E2510 Back-to-Back			
Station (SD46)	QUANTITY	Station (SD46)	QUANTITY
21+84 L&R	4	115+23 R	2
TOTAL AT PIPES			6

SIGN TABLE

SD46						632E3203	632E3205	632E1320	632E1340	N.A.	N.A.	110E0100	110E0130	110E7150	632E3500			DOT USE
Station Centerline	Distance from Centerline to Left Edge of Sign	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SQFT)	2.0"x2.0" Perforated Tube Post 12 ga. (FT)	2.5"x2.5" Perforated Tube Post 12 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Concrete Footing[s] (Lump Sum)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks
60+36	50' R	SW High Ave	D10-3	36	6	1.5		10.9					2			EAST	Perforated Tube Post	Remove existing stop sign assemblies at 60+22 R and street (D3-1) sign assembly at 59+81 L. Install new street (D3-1) and stop (R1-1) sign assembly at new station shown. Install street (D3-1) signs above stop sign.
		SW High Ave	D10-3	36	6	1.5									WEST			
		W Cedar St	D3-1	42	8	2.4									NORTH			
		W Cedar St	D3-1	42	8	2.4									SOUTH			
		STOP	R1-1	30	30		5.2								SOUTH	Perforated Tube Post		
60+53	34' R	(School Crossing) Symbol	S1-1	36	36		6.8	11.6		1			1			WEST	Perforated Tube Post	Remove and replace existing sign assembly at 59+66 R. Install new sign assembly at new station shown.
		(Diag. Downward, Left) Arrow	W16-7P L	24	18		3.0											
60+55	34' L	(School Crossing) Symbol	S1-1	36	36		6.8	11.6		1			1			EAST	Perforated Tube Post	Remove and replace existing sign assembly at 60+71 L. Install new sign assembly at new station shown.
		(Diag. Downward, Left) Arrow	W16-7P L	24	18		3.0											
60+69	33' R	(NO PARKING) Symbol	R8-3													WEST	Perforated Tube Post	Remove existing sign assembly at 60+69 R. Do not replace existing sign.
62+22	33' L	WEST	M3-4P	24	12	2.0		9.9		1			1			WEST	4"x6" Wood Post	Remove and replace existing sign assembly at 65+21 L. Install new sign by attaching it to the luminaire at 62+22 L.
		SD46	M1-5	24	24	4.0												
		SD50	M1-5	24	24	4.0												
63+08	34' L	(School) Symbol	S1-1	36	36		6.8	12.1		1			1			EAST	Luminaire	Remove and replace existing sign assembly at 63+08. Install new sign assembly at 63+08 L.
		AHEAD	W16-9P	30	12		2.5											
63+44	49' L	NW West Ave	D3-1	36	6	1.5		10.9		1			1			EAST	Perforated Tube Post	Remove and replace existing sign assembly at 63+45 L. Install new sign assembly at 63+44 L.
		NW West Ave	D3-1	36	6	1.5									WEST			
		W Cedar St	D3-1	42	8	2.4									NORTH			
		W Cedar St	D3-1	42	8	2.4									SOUTH			
		STOP	R1-1	30	30		5.2								NORTH			
63+89	48' R	SW West Ave	D3-1	36	6	1.5		10.9		1			2			EAST	Perforated Tube Post	Remove existing stop sign assembly at 63+90 R and street sign assembly at 63+44 R. Install new street (D3-1) and stop (R1-1) sign assembly at new station shown. Install street (D3-1) signs above stop sign.
		SW West Ave	D3-1	36	6	1.5									WEST			
		W Cedar St	D3-1	42	8	2.4									NORTH			
		W Cedar St	D3-1	42	8	2.4									SOUTH			
		STOP	R1-1	30	30		5.2								SOUTH			
64+13	37' R	(Airport) Symbol	I3-5	24	24	4.0										WEST	None	Install new sign by attaching it to the luminaire at 64+13 R.
		(Advanced Right) Arrow	M5-1P R	21	15	2.2												
65+22	33' L	SPEED LIMIT 30	R2-1	24	30	5.0							1			EAST	Perforated Tube Post	Remove existing sign assembly at 64+76 L. Install new sign by attaching it to the luminaire at 65+22 L.

SIGN TABLE

SD46						632E3203	632E3205	632E1320	632E1340	N.A.	N.A.	110E0100	110E0130	110E7150	632E3500			DOT USE
Station Centerline	Distance from Centerline to Left Edge of Sign	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SQFT)	2.0"x2.0" Perforated Tube Post 12 ga. (FT)	2.5"x2.5" Perforated Tube Post 12 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Concrete Footing[s] (Lump Sum)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks
65+22	27' L	WEST SD50 SD46 (NO PARKING) Symbol	M3-4P M1-5 M1-5 R8-3										1			EAST	4" x 6" Wood Post	Remove existing sign assembly at 65+22 L. Do not replace existing sign.
67+06	44' L	(Hospital) Symbol (Vertical) Arrow	D9-2 M6-3P	24 21	24 15	4.0 2.2							1			EAST	Perforated Tube Post	Install new sign by attaching it to the mast arm pole below the mast arm.
67+06	20' L	N Main Ave	D3-1	96	24		16.0									EAST	None	Attach sign overhead on mast arm per Standard Plate 635.32.
67+06	2' L	(Left Turn) Arrow	R3-5 L	30	36		7.5									EAST	None	Attach sign overhead on mast arm per Standard Plate 635.32.
67+13	48' R	(Airport) Symbol (Vertical) Arrow	I3-5 M6-3P	24 21	24 15	4.0 2.2										NORTH	None	Install new sign by attaching it to the mast arm pole below the mast arm.
67+24	48' R	[SD46] [SD50] Cedar St	D3-1	102	24		17.0									NORTH	None	Attach sign overhead on mast arm per Standard Plate 635.32.
67+87	40' L	[SD46] [SD50] Cedar St	D3-1	102	24		17.0									SOUTH	None	Attach sign overhead on mast arm per Standard Plate 635.32.
67+93	2' R	(Left Turn) Arrow	R3-5 L	30	36		7.5									WEST	None	Attach sign overhead on mast arm per Standard Plate 635.32.
67+93	28' R	S Main Ave	D3-1	96	24		16.0									WEST	None	Attach sign overhead on mast arm per Standard Plate 635.32.
67+93	44' R	(Airport) Symbol (Right) Arrow	I3-5 M6-1P R	24 21	24 15	4.0 2.2										WEST	None	Install new sign by attaching it to the mast arm pole below the mast arm.
68+01	40' L	(No Trucks) Symbol (Double) Arrow	R5-2 M6-4P	24 21	24 15	4.0 2.2										EAST	Luminaire	Install new sign by attaching it to the mast arm pole below the mast arm. Remove existing sign "NO TRUCKS ON MAIN STREET" at 69+20 L.
69+53	32' L	BUSINESS DISTRICT (Left) Arrow	SPECIAL	36	30	4.0										EAST	Luminaire	Remove existing sign assembly at 69+20 L. Attach new sign to the luminaire at 69+53 L.
70+48	32' L	(Airport) Symbol (Advanced Left) Arrow	I3-5 M5-1P L	24 21	24 15	4.0 2.2		11.5		1			1			EAST	Luminaire	Remove existing sign "AIRPORT (Left) Arrow" at 69+20 L. Install new sign assembly at 70+48 R.
71+57	40' R	SE East Ave SE East Ave E Cedar St E Cedar St STOP	D3-1 D3-1 D3-1 D3-1 R1-1	36 36 42 42 30	6 6 8 8 30	1.5 1.5 2.4 2.4		10.9		1			2			EAST WEST NORTH SOUTH SOUTH	Perforated Tube Post	Remove existing stop sign assemblies at 71+66 R and street (D3-1) sign assembly at 71+03 L. Install new street (D3-1) and stop (R1-1) sign assembly at new station shown. Install street (D3-1) signs above stop sign.
74+22	33' L	(NO PARKING) Symbol	R8-3										1			EAST	Luminaire	Remove existing sign assembly at 74+22 L. Do not replace.
74+68	36' R	SPEED LIMIT 30	R2-1	24	30	5.0										WEST	Luminaire	Remove existing sign assembly at 71+66 R. Attach new sign to the luminaire at 74+68 R.

SIGN TABLE

SD46						632E3203	632E3205	632E1320	632E1340	N.A.	N.A.	110E0100	110E0130	110E7150	632E3500			DOT USE	
Station Centerline	Distance from Centerline to Left Edge of Sign	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SQFT)	2.0"x2.0" Perforated Tube Post 12 ga. (FT)	2.5"x2.5" Perforated Tube Post 12 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Concrete Footing[s] (Lump Sum)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks	
74+83	53' L	NE Grant Ave	D3-1	36	6	1.5		10.9		1			1			EAST	Galvanized Steel Pipe	Remove existing sign assembly at 74+83 L. Install new sign assembly at 74+83 L.	
		NE Grant Ave	D3-1	36	6	1.5									WEST				
		E Cedar St	D3-1	42	8	2.4									NORTH				
		E Cedar St	D3-1	42	8	2.4									SOUTH				
		STOP	R1-1	30	30		5.2								NORTH				
75+22	49' R	SE Grant Ave	D3-1	36	6	1.5		10.9		1			2			EAST	Perforated Tube Post	Remove existing stop sign assemblies at 75+22 R and street (D3-1) sign assembly at 74+69 R. Install new street (D3-1) and stop (R1-1) sign assembly at new station shown. Install street (D3-1) signs above stop sign.	
		SE Grant Ave	D3-1	36	6	1.5									WEST				
		E Cedar St	D3-1	42	8	2.4									NORTH				
		E Cedar St	D3-1	42	8	2.4									SOUTH				
		STOP	R1-1	30	30		5.2								SOUTH	4" x 6" Wood Post			
77+37	34' R	(NO PARKING) Symbol	R8-3										1			WEST	Luminaire	Remove existing sign assembly at 76+46 R. Do not replace existing sign.	
78+16	37' R	Yield Here to Pedestrians	R1-5	36	36	9.0		10.1		1						WEST	None	Install new sign assembly 2 ft. from front of curb.	
78+95	34' L	(NO PARKING) Symbol	R8-3										1			EAST	Luminaire	Remove existing sign assembly at 78+95 L. Do not replace existing sign.	
78+95	46' R	SE Sheridan Ave	D3-1	42	6	1.8		10.9		1			2			EAST	Perforated Tube Posts	Remove existing stop sign assemblies at 79+01 R and street (D3-1) sign assembly at 78+44 R. Install new street (D3-1) and stop (R1-1) sign assembly at new station shown. Install street (D3-1) signs above stop sign.	
		SE Sheridan Ave	D3-1	42	6	1.8									WEST				
		E Cedar St	D3-1	42	8	2.4									NORTH				
		E Cedar St	D3-1	42	8	2.4									SOUTH				
		STOP	R1-1	30	30		5.2								SOUTH				
79+01	34' L	(PEDESTRIAN X-ING) Symbol	W11-2													WEST	None	See Section L for new RRFB System. Signs are incidental to RRFB system.	
		(Diag. Downward, Right) Arrow	W16-7P R																
		(PEDESTRIAN X-ING) Symbol	W11-2												EAST				
		(Diag. Downward, Left) Arrow	W16-7P L																
79+08	34' L	PUSH BUTTON TO TURN ON WARNING LIGHTS	R10-25													EAST	None	See Section L for new RRFB System. Signs are incidental to RRFB system.	
79+14	34' R	PUSH BUTTON TO TURN ON WARNING LIGHTS	R10-25													EAST	None	See Section L for new RRFB System. Signs are incidental to RRFB system.	
79+21	34' R	(PEDESTRIAN X-ING) Symbol	W11-2													WEST	None	See Section L for new RRFB System. Signs are incidental to RRFB system.	
		(Diag. Downward, Right) Arrow	W16-7P R																
		(PEDESTRIAN X-ING) Symbol	W11-2												EAST				
		(Diag. Downward, Left) Arrow	W16-7P L																
79+38	37' L	Yield Here to Pedestrians	R1-5	36	36	9.0		10.1		1						EAST	None	Install new sign assembly 2 ft. from front of curb.	

SIGN TABLE

SD46						632E3203	632E3205	632E1320	632E1340	N.A.	N.A.	110E0100	110E0130	110E7150	632E3500	DOT USE		
Station Centerline	Distance from Centerline to Left Edge of Sign	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SQFT)	2.0"x2.0" Perforated Tube Post 12 ga. (FT)	2.5"x2.5" Perforated Tube Post 12 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Concrete Footing[s] (Lump Sum)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks
80+26	34' L	(Hospital) Symbol	D9-2	24	24	4.0							1			EAST	Luminaire	Remove existing sign assembly at 81+47 L. Attach sign to the luminaire at 80+26 L.
		(Vertical) Arrow	M6-3P	21	15	2.2												
81+53	64' R	TRUCK ROUTE	R14-1	24	18	3.0		9.8		1						NORTH	None	Install new sign assembly 2 ft. from front of curb.
		(Vertical) Arrow	M6-3P	21	15	2.2												
81+57	54' L	NE Front Ave	D3-1	36	6	1.5		10.9		1			1			EAST	Perforated Tube Post	Remove existing sign assembly at 81+65 L. Install new sign assembly at 81+57 L.
		NE Front Ave	D3-1	36	6	1.5									WEST			
		E Cedar St	D3-1	42	8	2.4									NORTH			
		E Cedar St	D3-1	42	8	2.4									SOUTH			
		STOP	R1-1	30	30		5.2								NORTH	4" x 6" Wood Post		
82+09	110' L	TRUCK ROUTE	R14-1	24	18	3.0		9.8		1						SOUTH	None	Install new sign assembly 2 ft. from front of curb.
		(Vertical) Arrow	M6-3P	21	15	2.2												
82+18	64' R	SE Front Ave	D3-1	36	6	1.5		10.9		1			1			EAST	Perforated Tube Post	Remove existing sign assembly at 82+18 R and 81+63 R.
		SE Front Ave	D3-1	36	6	1.5									WEST			
		E Cedar St	D3-1	42	8	2.4									NORTH			
		E Cedar St	D3-1	42	8	2.4									SOUTH			
		STOP	R1-1	30	30		5.2								SOUTH			
82+90	26' L	TRUCK ROUTE	R14-1	24	18	3.0		9.8		1						EAST	None	Install new sign assembly 2 ft. from front of curb.
		(Vertical and Left) Arrows	M6-6P L	21	15	2.2												
		(Right) Arrow	M6-1P R	21	15	2.2												
84+01	33' R	Opt. M. Lane Control Thru and Left Turn	R3-6 L										1			WEST	Luminaire	Remove existing sign assembly at 84+01 R. Do not replace.
		TRUCK ROUTE	R14-1															
		(NO PARKING) Symbol	R8-3															
84+25	26' L	TRUCK ROUTE	R14-1	24	18	3.0		9.8		1						EAST	None	Install new sign assembly 2 ft. from front of curb.
		(Advanced Right) Arrow	M5-1P R	21	15	2.2												
		(Advanced Left) Arrow	M5-1P L	21	15	2.2												
85+12	32' R	CENTER LANE ONLY	R3-9b	24	36	6.0		9.9		1						WEST	None	Install new sign assembly 8 ft. from front of curb.
85+12	26' L	CENTER LANE ONLY	R3-9b	24	36	6.0		9.9		1						EAST	None	Install new sign by attaching it to the luminaire at 85+12 L.
86+61	34' L	(NO PARKING) Symbol	R8-3										1			WEST	Luminaire	Remove existing sign assembly at 86+61 L. Also remove R3-8 L & R14-1 signs above.
91+72	34' R	(NO PARKING) Symbol	R8-3										1			WEST	Luminaire	Remove existing sign assembly at 91+72 R.

SIGN TABLE

SD46						632E3203	632E3205	632E1320	632E1340	N.A.	N.A.	110E0100	110E0130	110E7150	632E3500			DOT USE		
Station Centerline	Distance from Centerline to Left Edge of Sign	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SQFT)	2.0"x2.0" Perforated Tube Post 12 ga. (FT)	2.5"x2.5" Perforated Tube Post 12 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Concrete Footing[s] (Lump Sum)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks		
94+93	36' L	NE 10th Ave	D3-1	36	6	1.5		10.9		1			2			EAST	Perforated Tube Posts	Remove existing stop sign assemblies at 94+43 L and street (D3-1) sign assembly at 94+91 L. Install new street (D3-1) and stop (R1-1) sign assembly at new station shown. Install street (D3-1) signs above stop sign.		
		NE 10th Ave	D3-1	36	6	1.5									WEST					
		E Cedar St	D3-1	42	8	2.4									NORTH					
		E Cedar St	D3-1	42	8	2.4									SOUTH					
		STOP	R1-1	30	30		5.2								NORTH	Remove existing sign assemblies at 94+91 L and 94+43 L.				
95+05	34' R	SPEED LIMIT 30	R2-1	24	30	5.0						1			WEST	Luminaire	Remove existing sign assembly at 93+87 R. Attach new sign to the luminaire at 95+05 R.			
96+95	32' L	SPEED LIMIT 30	R2-1	24	30	5.0						1			WEST	Luminaire	Remove existing sign assembly at 94+25 L. Attach new sign to the luminaire at 96+95 L.			
98+77	34' L	(NO PARKING) Symbol	R8-3												WEST	Luminaire	Remove existing sign assembly at 98+77 L.			
99+51	48' R	SE Haar Ave	D3-1	36	6	1.5		10.9		1			2			EAST	Perforated Tube Posts	Remove existing stop sign assemblies at 99+49 R and street (D3-1) sign assembly at 99+08 R. Install new street (D3-1) and stop (R1-1) sign assembly at new station shown. Install street (D3-1) signs above stop sign.		
		SE Haar Ave	D3-1	36	6	1.5									WEST					
		E Cedar St	D3-1	42	8	2.4									NORTH					
		E Cedar St	D3-1	42	8	2.4									SOUTH					
		STOP	R1-1	30	30		5.2								SOUTH					
101+05	31' R	RIGHT LANE ENDS	W9-1 R										1			EAST	Luminaire	Remove existing sign assembly at 101+05 R. Do not replace existing sign.		
		900 FT	W16-2P																	
103+66	34' L	Thank You Deployed SD National Guard Units CO A (-) 1530	SPECIAL										1			WEST	4" x 6" Wood Post	Remove existing sign assembly at 101+66 L. Do not replace existing sign.		
105+78	30' R	(Right Lane Ends) Symbol	W4-2 R										1			WEST	Luminaire	Remove existing sign assembly at 105+78 R. Do not replace existing sign.		
109+22	34' R	MRM 290	D10-3													WEST / EAST	Perforated Tube Post	Remove and reset according to MRM plan note.		

SIGN TABLE

SD46						632E3203	632E3205	632E1320	632E1340	N.A.	N.A.	110E0100	110E0130	110E7150	632E3500			DOT USE	
Station Centerline	Distance from Centerline to Left Edge of Sign	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SQFT)	2.0"x2.0" Perforated Tube Post 12 ga. (FT)	2.5"x2.5" Perforated Tube Post 12 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Concrete Footing[s] (Lump Sum)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks	
109+53	34' L	Wagner 1490	SPECIAL	42	18	5.3		10.6		1			1			EAST	Perforated Tube Posts	Remove existing sign assembly at 110+67 L. Install new sign assembly at 109+53 L. Reset existing "WAGNER [SYMBOL] A PURPLE HEART CITY" (18" x 24") sign below "Wagner POP 1490" sign.	
		WAGNER [SYMBOL] A PURPLE HEART CITY	SPECIAL																
110+37	32' L	SPEED LIMIT 30	R2-1					24.7		1				1	1	EAST	Perforated Tube Posts	Remove and reset radar speed feedback sign assembly on new 2.5" perforated tube posts. The inside post is 12.2 ft. and the outside post is 12.5 ft.. Remove existing knee brace and do not replace.	
		[Radar Speed Feedback Sign]	SPECIAL																
112+41	26' L	SPEED LIMIT 30	R2-1	24	30	5.0		9.4		1						WEST	Perforated Tube Post	Remove existing sign assembly at 117+01 L. Install new sign assembly at 112+41 L.	
112+41	26' R	SPEED LIMIT 45	R2-1	24	30	5.0		9.4		1						EAST	Perforated Tube Post	Remove existing sign assembly at 114+76 R. Install new sign assembly at 112+41 L.	
115+19	26' R	EAST	M3-2P	24	12	2.0		10.1		1						WEST	Perforated Tube Post	Remove existing sign assembly at 115+19 R.	
		SD46	M1-5	24	24	4.0													
		SD50	M1-5	24	24	4.0													
116+95	26' R	Avon 16 Tyndall 26 Yankton 51	SPECIAL	66	42	19.3			24.2'		1					EAST	Perforated Tube Posts	Remove existing sign assembly and concrete footings at 116+94 R. Install new sign assembly at 116+95 R. The new inside post is 11.6 ft. and the outside post is 12.6 ft..	
117+60	35' R	END	R3-9dP	24	12	2.0										WEST	None	Install new sign by attaching it to the luminaire at 117+60 R.	
		CENTER LANE ONLY	R3-9b	24	36	6.0													
117+60	27' L	BEGIN	R3-9cP	24	12	2.0		10.8		1						EAST	None	Install new sign assembly 2 ft. from front of curb.	
		CENTER LANE ONLY	R3-9b	24	36	6.0													
132+16	21' R	NO PASSING ZONE	W14-3	48	36		5.6	12.3		1						EAST	Perforated Tube Post	Remove existing sign assembly at 120+46 R. Install new sign assembly at 132+16 R.	
				TOTAL		508.0	318.1	614.9	144.5			1	84	5	5				

Sign Summary SD46

Sign Code	Description	Width (Inches)	Height (Inches)	Sq. Ft.	No.	Flat Aluminum Sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super or Very High Intensity (SQFT)	Text / Background
D3-1	[SD46] Cedar St	102	24	17.0	2		34.0	White Legend on Green Background
D3-1	S Main Ave	96	24	16.0	1		16.0	White Legend on Green Background
D3-1	N Main Ave	96	24	16.0	1		16.0	White Legend on Green Background
D3-1	W Cedar St	42	8	2.3	22	50.6		White Legend on Green Background
D3-1	E Cedar St	42	8	2.3	16	36.8		White Legend on Green Background
D3-1	Wagner Lake Rd	48	6	2.0	2	4.0		White Legend on Green Background
D3-1	Washington Ave	48	6	2.0	2	4.0		White Legend on Green Background
D3-1	SE Sheridan Ave	42	6	1.8	2	3.6		White Legend on Green Background
D3-1	SW Walnut Ave	42	6	1.8	2	3.6		White Legend on Green Background
D3-1	394th Ave	36	6	1.5	2	3.0		White Legend on Green Background
D3-1	NW High Ave	36	6	1.5	2	3.0		White Legend on Green Background
D3-1	SW High Ave	36	6	1.5	2	3.0		White Legend on Green Background
D3-1	SW West Ave	36	6	1.5	2	3.0		White Legend on Green Background
D3-1	NW West Ave	36	6	1.5	2	3.0		White Legend on Green Background
D3-1	SE Grant Ave	36	6	1.5	2	3.0		White Legend on Green Background
D3-1	NE Grant Ave	36	6	1.5	2	3.0		White Legend on Green Background
D3-1	NW Lake St	36	6	1.5	2	3.0		White Legend on Green Background
D3-1	SW Birch Ave	36	6	1.5	2	3.0		White Legend on Green Background
D3-1	NE Front Ave	36	6	1.5	2	3.0		White Legend on Green Background
D3-1	SE Front Ave	36	6	1.5	2	3.0		White Legend on Green Background

Sign Summary SD46

Sign Code	Description	Width (Inches)	Height (Inches)	Sq. Ft.	No.	Flat Aluminum Sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super or Very High Intensity (SQFT)	Text / Background
D3-1	Estates Dr	30	6	1.3	2	2.6		White Legend on Green Background
D3-1	NE 10th Ave	36	6	1.5	2	3.0		White Legend on Green Background
D3-1	SE East Ave	30	6	1.3	2	2.6		White Legend on Green Background
D3-1	SE Haar Ave	36	6	1.5	2	3.0		White Legend on Green Background
D9-2	(Hospital) Symbol	24	24	4.0	4	16.0		White Legend on Blue Background
R1-1	STOP	30	30	5.2	22		114.4	White Legend on Red Background
R1-5	Yield Here to Pedestrians	36	36	9.0	5	45.0		
R2-1	SPEED LIMIT 30	24	30	5.0	8	40.0		Black Legend on White Background
R2-1	SPEED LIMIT 40	24	30	5.0	1	5.0		Black Legend on White Background
R2-1	SPEED LIMIT 45	24	30	5.0	1	5.0		Black Legend on White Background
R3-5 L	(Left Turn) Arrow	30	36	7.5	2		15.0	Black Arrow on White Background
R3-9b	CENTER LANE ONLY	24	30	5.0	8	40.0		White Legend on Green Background
R3-9dP	END	24	12	2.0	1	2.0		Black Legend on White
R3-9cP	BEGIN	24	12	2.0	1	2.0		Black Legend on White
R5-2	(NO TRUCKS) Symbol	24	24	4.0	1	4.0		Black and Red Symbols on White
R14-1	TRUCK ROUTE	24	18	3.0	7	21.0		Black Legend on White
M1-5P	[SD46] Symbol	24	24	4.0	2	8.0		Black Legend on White and Green Background
M1-5P	[SD50] Symbol	24	24	4.0	2	8.0		Black Legend on White and Green Background
M3-2P	EAST	24	12	2.0	1	2.0		Black Arrow on White and Green Background
M3-4P	WEST	24	12	2.0	1	2.0		Black Arrow on White and Green Background

Sign Summary SD46

Sign Code	Description	Width (Inches)	Height (Inches)	Sq. Ft.	No.	Flat Aluminum Sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super or Very High Intensity (SQFT)	Text / Background
M5-1P R	(Advance Right) Arrow	21	15	2.2	2	4.4		Black Arrow on White Background
M5-1P L	(Advance Left) Arrow	21	15	2.2	1	2.2		Black Arrow on White and Green Background
M5-1P R	(Advance Right) Arrow	21	15	2.2	1	2.2		White Arrow on Green Background
M5-1P L	(Advance Left) Arrow	21	15	2.2	1	2.2		White Arrow on Green Background
M6-1P L	(Left) Arrow	21	15	2.2	1	2.2		White Arrow on Blue Background
M6-1P R	(Right) Arrow	21	15	2.2	1	2.2		White Arrow on Blue Background
M6-1P R	(Right) Arrow	21	15	2.2	2	4.4		Black Arrow on White Background
M6-1P R	(Right) Arrow	21	15	2.2	1	2.2		White Arrow on Green Background
M6-3P	(Vertical) Arrow	21	15	2.2	2	4.4		Brown Arrow on White Background
M6-3P	(Vertical) Arrow	21	15	2.2	2	4.4		Black Arrow on White Background
M6-3P	(Vertical) Arrow	21	15	2.2	2	4.4		White Arrow on Green Background
M6-3P	(Vertical) Arrow	21	15	2.2	2	4.4		White Arrow on Blue Background
M6-4P	(Double) Arrow	21	15	2.2	1	2.2		Black Arrow on White Background
W4-2 R	(Right Lane Ends) Symbol	36	36	9.0	2		18.0	Black Legend on Yellow Background
W9-1 R	RIGHT LANE ENDS	36	36	9.0	2		18.0	Black Legend on Yellow Background

Sign Summary SD46

Sign Code	Description	Width (Inches)	Height (Inches)	Sq. Ft.	No.	Flat Aluminum Sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super or Very High Intensity (SQFT)	Text / Background
W11-2	[Pedestrian Crossing] Symbol	36	36	9.0	2		18.0	Black Legend on Yellow Background
W14-3	NO PASSING ZONE	48	36	5.6	1		5.6	Black Legend on Yellow Background
W16-7P L	(Diagonal Down) Arrow	24	18	3.0	2		6.0	Black Arrow on Yellow- Green Background
W16-9P	AHEAD	30	18	3.8	4		13.9	Black Legend on Yellow Background
S1-1	(School Crossing) Symbol	36	36	6.8	4		27.2	Black Legend on Yellow- Green Background
S5-1	SCHOOL SPEED LIMIT 15 WHEN FLASHING	24	48	8.0	2		16.0	Black Legend on Yellow- Green Background
I3-5	(Airport) Symbol	24	24	6.8	4	27.2		White Symbol on Green Background
SPECIAL	Avon 16 _ Tyndall 26 _ Yankton 51	66	48	22.0	1	22.0		White Legend on Green Background
SPECIAL	Ft Randall Dam 12 _ Burke 57	102	36	25.5	1	25.5		White Legend on Green Background
SPECIAL	Tyndall 27 _ Yankton 52	66	36	16.5	1	16.5		White Legend on Green Background
SPECIAL	Wagner POP 1490	42	18	5.3	2	10.6		White Legend on Green Background
SPECIAL	(Symbol) LEWIS AND CLARK	24	30	5.0	1	5.0		Brown Legend and Sym. on W. Background
SPECIAL	(Symbol) OYATE TRAIL	24	30	5.0	1	5.0		White Symbol on Brown Background
SPECIAL	BUSINESS DISTRICT (Left) Arrow	36	30	7.5	1	7.5		White Legend on Green Background
Totals						507.9	318.1	

CEDAR ST (SD46 & SD50) AND MAIN AVE (SPECIAL SIGN LAYOUT)

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	S18	S35

Plotting Date: 09/12/2024 REV. 10-22-24, JMP

67+06 - 20' L

N Main Ave

68+01 - 40' L

67+06 - 44' L



67+06 - 2' L



N. MAIN AVE



67+87 - 40' L

50 Cedar st

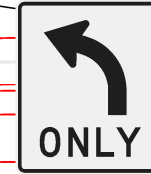
SD HWY 46

66+00

67+00

68+00

69+00



67+93 - 2' R



67+93 - 44' R

50 Cedar st

67+24 - 48' R



67+13 - 48' R

S. MAIN AVE

s Main Ave

67+93 - 28' R

PLOT SCALE - 1"=81'-0.9903

PLOTTED FROM - TRM113314

PLOT NAME - 2

FILE - ... \095JUN SECTION S CONTAINER.DGN

SPECIAL SIGN DETAIL

FLAT ALUMINUM SIGNS WITH NONREMOVABLE COPY Type IV Sheeting

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET S19	TOTAL SHEETS S35
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Plotting Date: 10/16/2024 REV. 10-22-24, JMP

PLOT SCALE - 1:17.8399

PLOT NAME - 15

FILE - ... \05JUN SECTION S CONTAINER.DGN

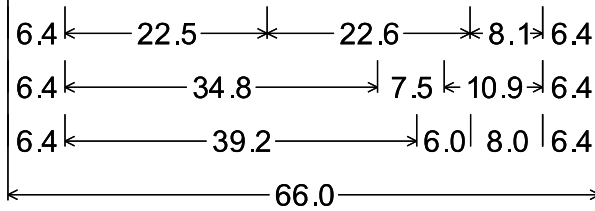
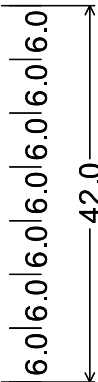
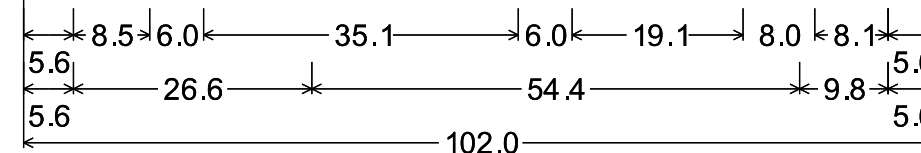
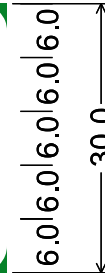


Table of letter and object lefts

A	v	o	n	l	6	
6.4	13.2	19.0	25.0	51.5	54.8	
T	y	n	d	a	l	l
6.4	11.6	18.4	24.2	30.1	36.4	40.0
2	6					
48.7	54.8					
Y	a	n	k	t	o	n
6.4	13.3	19.7	26.0	31.2	35.7	41.6
5	1					
51.6	57.8					

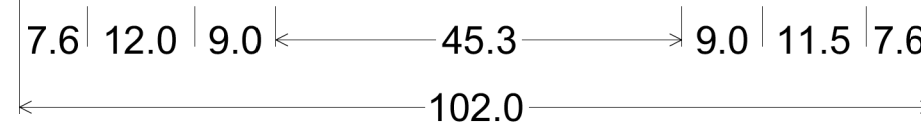
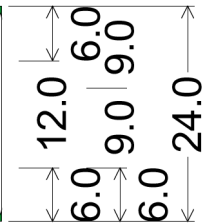
6.0" Radius, 1.3" Border, White on Green;
 "Avon", E Mod 2K; "16", E Mod 2K;
 "Tyndall", E Mod 2K;
 "26", E Mod 2K;
 "Yankton 51", E Mod 2K;



3.0" Radius, 1.5" Border, White on Green;
 "Ft Randall Dam", E Mod 2K; "12", E Mod 2K;
 "Burke", E Mod 2K; "57", E Mod 2K 14% spacing;

Table of letter and object lefts

F	t	R	a	n	d	a	l	l
5.6	11.0	20.1	26.0	32.4	38.2	44.0	50.4	54.0
D	a	m	l	2				
61.2	67.3	73.7	88.3	91.6				
B	u	r	k	e	5	7		
5.6	12.1	18.5	22.9	28.2	86.6	91.6		



D-3;
 1.5" Radius, 0.5" Border, White on Green;
 "Cedar St", D;

Table of letter and object lefts

50	C	e	d	a	r	S	t
7.6	28.6	39.3	48.4	58.2	68.8	82.9	90.5

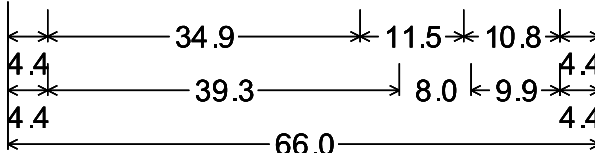
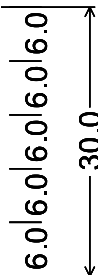


Table of letter and object lefts

T	y	n	d	a	l	l
4.4	9.6	16.5	22.3	28.1	34.5	38.1
2	7					
50.8	56.7					
Y	a	n	k	t	o	n
4.4	11.4	17.7	24.1	29.3	33.8	39.7
5	2					
51.7	56.7					

3.0" Radius, 1.5" Border, White on Green;
 "Tyndall", E Mod 2K;
 "27", E Mod 2K;
 "Yankton", E Mod 2K;
 "52", E Mod 2K 14% spacing;

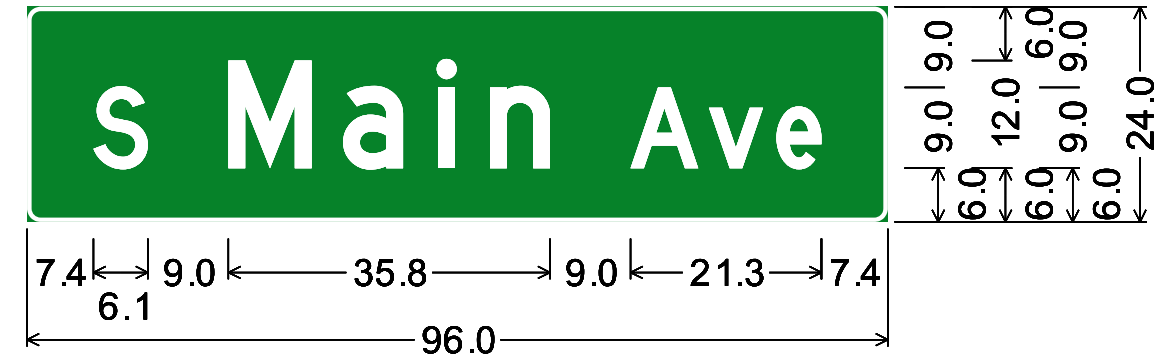
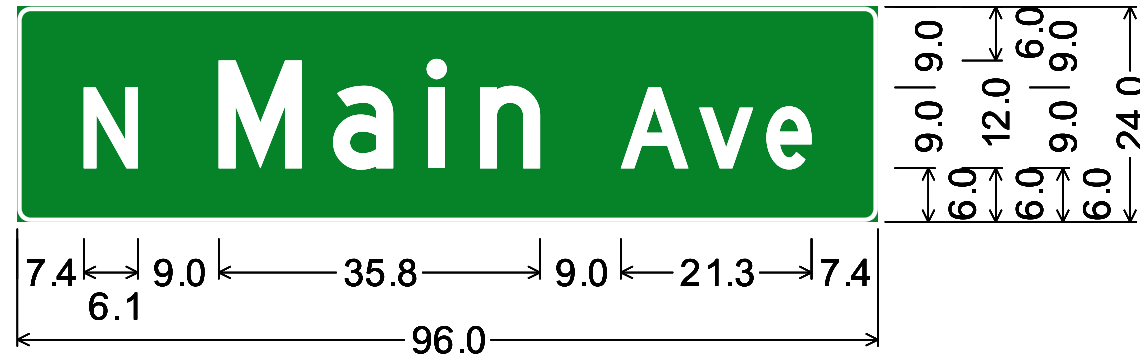
PLOTTED FROM - TRM113314

SPECIAL SIGN DETAIL

FLAT ALUMINUM SIGNS WITH NONREMOVABLE COPY
Type IV Sheeting

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	S20	S35

Plotting Date: 09/11/2024

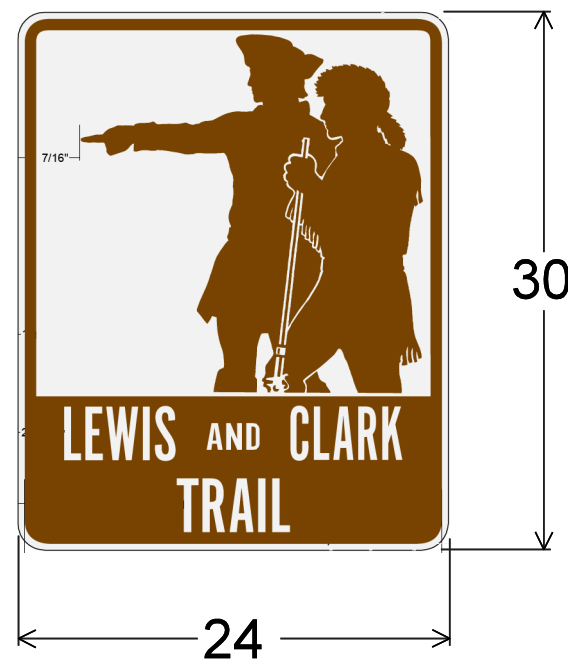


D-3;
1.5" Radius, 0.5" Border, White on Green;
"N", D 50% spacing; "Main", D; "Ave", D;
Table of letter and object lefts

N	M	a	i	n	A	v	e
7.4	22.5	35.2	45.8	51.6	67.3	76.0	83.6

D-3;
1.5" Radius, 0.5" Border, White on Green;
"S", D 50% spacing; "Main", D; "Ave", D;
Table of letter and object lefts

S	M	a	i	n	A	v	e
7.4	22.5	35.2	45.8	51.6	67.3	76.0	83.6



1.5" Radius, 0.25" Border, 0.5" Indent, White on Brown;
"LEWIS", 4" B; "AND", 2" B; "CLARK", 4" B;
"TRAIL", 4" B;

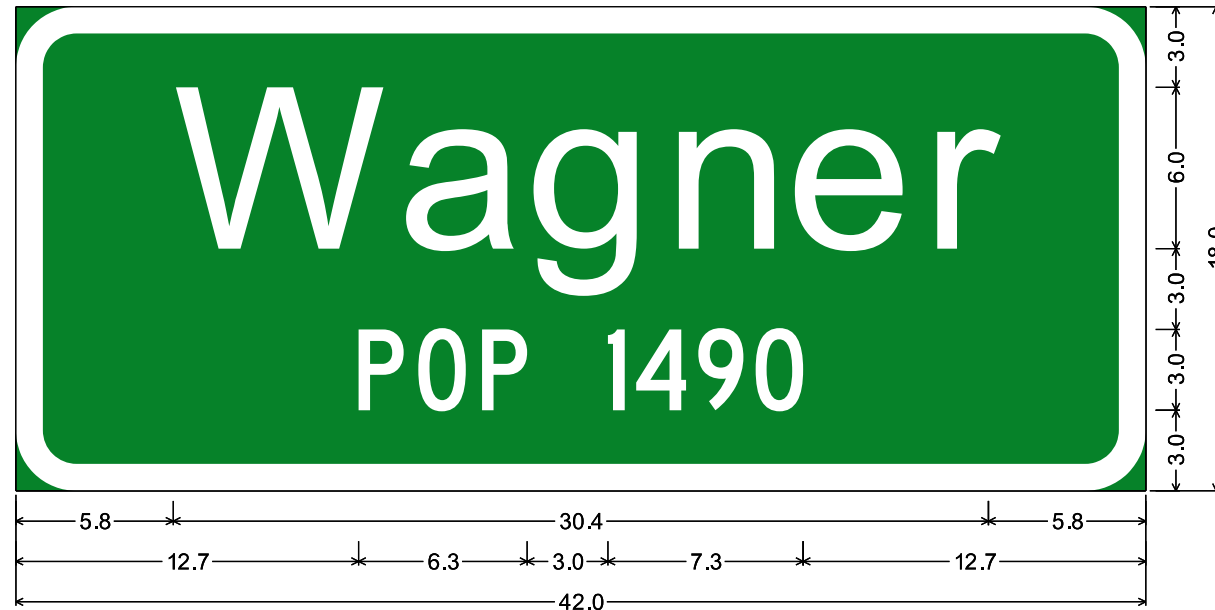


1.5" Radius, 0.25" Border, 0.5" Indent, White on Brown;
"O" 10.67" EM; "YATE" 6" D
"TRAIL" 6" D;

SPECIAL SIGN DETAIL
FLAT ALUMINUM SIGNS WITH NONREMOVABLE COPY
Type IV Sheeting

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	S21	S35

Plotting Date: 09/11/2024



2.3" Radius, 1.0" Border, White on Green;
 "Wagner", E Mod 2K; "POP 1490", C 2K;
 Table of letter and object lefts

W	a	g	n	e	r	
5.8	14.2	19.0	24.1	28.6	33.7	
P	0	P	l	4	9	0
12.7	15.0	17.3	22.0	23.1	25.4	27.5



1.9" Radius, 0.8" Border, 0.5" Indent, White on Green;
 "BUSINESS", E Mod 2K; "DISTRICT", E Mod 2K; Arrow Custom - 10.1" 180°;

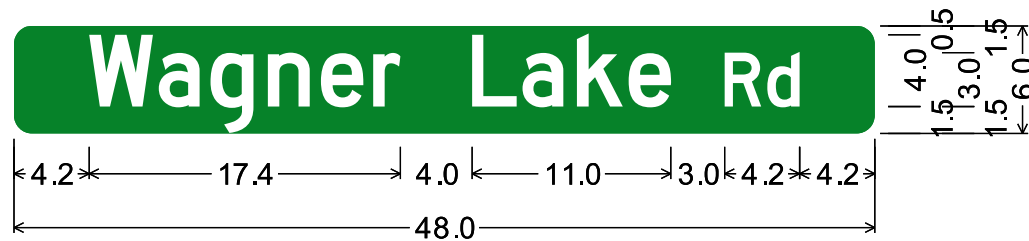
Table of letter and object lefts

B	U	S	I	N	E	S	S
3.0	7.2	11.4	15.6	17.6	21.9	25.6	29.7
D	I	S	T	R	I	C	T
5.0	9.2	11.0	14.8	18.5	22.6	24.3	28.1

←
12.9

SPECIAL SIGN DETAIL

FLAT ALUMINUM SIGNS WITH NONREMOVABLE COPY Type IV Sheeting

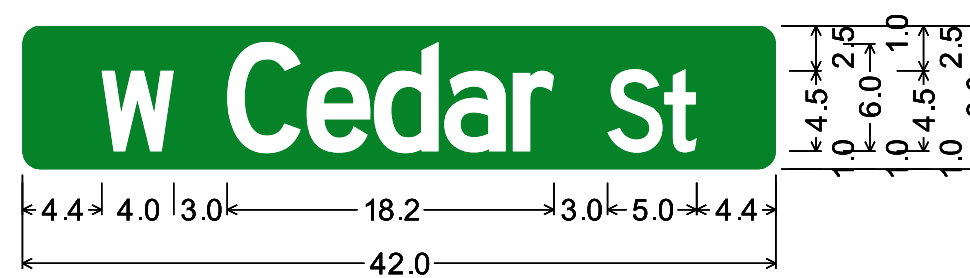


1.0" Radius, No border, White on Green;

"Wagner Lake Rd", D 2K;

Table of letter and object lefts

W	a	g	n	e	r	L	a	k	e
4.2	8.1	11.0	14.2	17.1	20.0	25.6	28.4	31.4	34.3
R		d							
39.6		42.0							

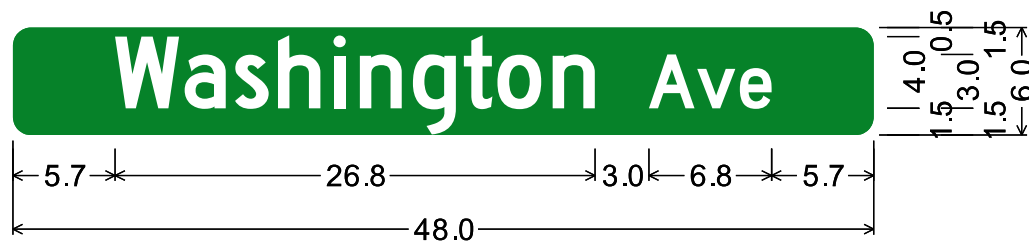


1.0" Radius, No border, White on Green;

"W Cedar St", D 2K 36% spacing;

Table of letter and object lefts

W	C	e	d	a	r	S	t
4.4	11.4	15.8	19.6	23.5	27.3	32.6	35.8

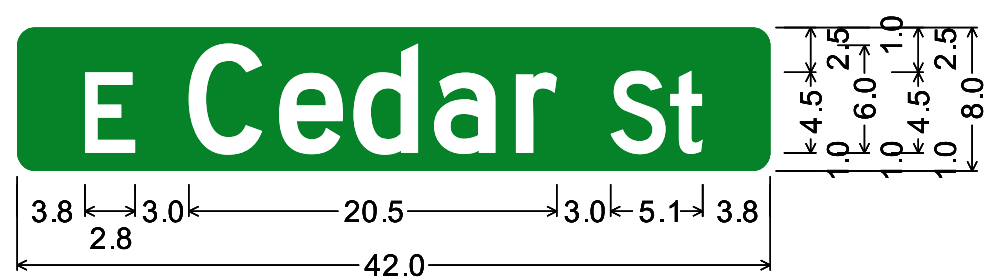


1.0" Radius, No border, White on Green;

"Washington Ave", D 2K;

Table of letter and object lefts

W	a	s	h	i	n	g	t	o	n
5.7	9.6	12.4	14.8	17.9	19.3	22.3	25.1	27.0	30.1
A		v		e					
35.5		38.2		40.5					

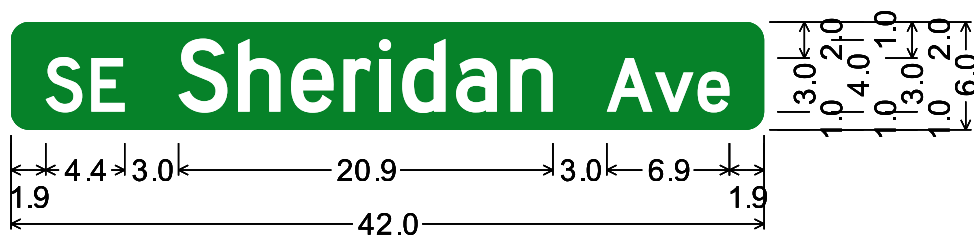


1.0" Radius, No border, White on Green;

"E Cedar St", D 2K;

Table of letter and object lefts

E	C	e	d	a	r	S	t
3.8	9.6	14.6	18.8	23.3	27.8	33.1	36.4

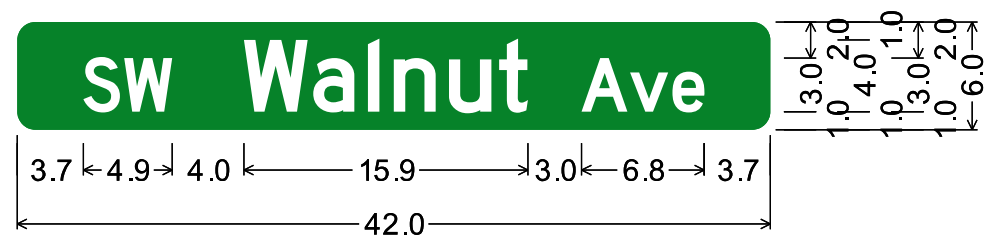


1.0" Radius, No border, White on Green;

"SE Sheridan Ave", D 2K;

Table of letter and object lefts

S	E	S	h	e	r	i	d	a	n
1.9	4.5	9.3	12.7	15.6	18.5	20.5	21.8	24.8	27.9
A		v		e					
33.2		35.9		38.3					



1.0" Radius, No border, White on Green;

"SW Walnut Ave", D 2K;

Table of letter and object lefts

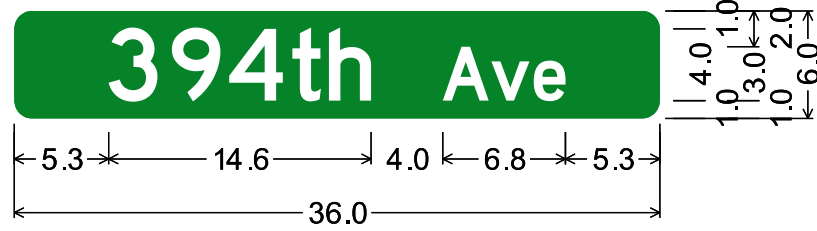
S	W	W	a	l	n	u	t
3.7	6.0	12.6	16.5	19.6	21.0	24.1	26.9
A		v		e			
31.5		34.2		36.5			

SPECIAL SIGN DETAIL

FLAT ALUMINUM SIGNS WITH NONREMOVABLE COPY Type IV Sheeting

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	S23	S35

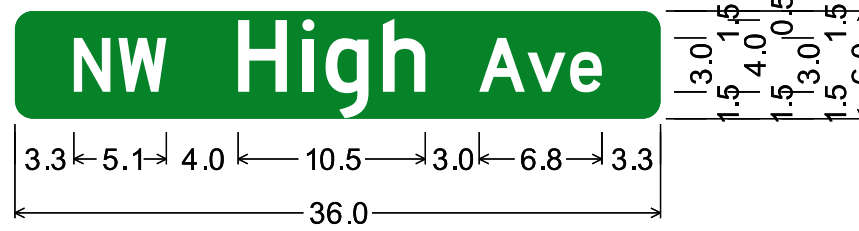
Plotting Date: 09/11/2024



1.0" Radius, No border, White on Green;
"394th Ave", D 2K;

Table of letter and object lefts

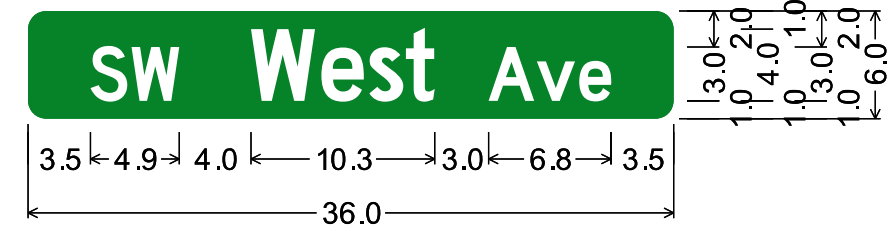
3	9	4	t	h	A	v	e
5.3	8.8	12.0	15.5	17.5	23.9	26.6	29.0



1.0" Radius, No border, White on Green;
"NW High Ave", D 2K;

Table of letter and object lefts

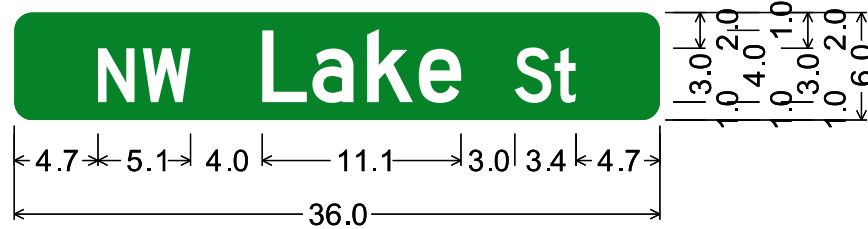
N	W	H	i	g	h
3.3	5.8	12.4	16.0	17.3	20.5
A	v	e			
25.9	28.6	31.0			



1.0" Radius, No border, White on Green;
"SW West Ave", D 2K;

Table of letter and object lefts

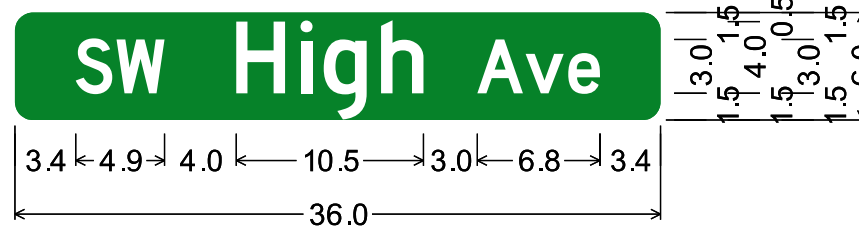
S	W	W	e	s	t
3.5	5.8	12.4	16.4	19.0	21.1
A	v	e			
25.7	28.4	30.7			



1.0" Radius, No border, White on Green;
"NW Lake St", D 2K;

Table of letter and object lefts

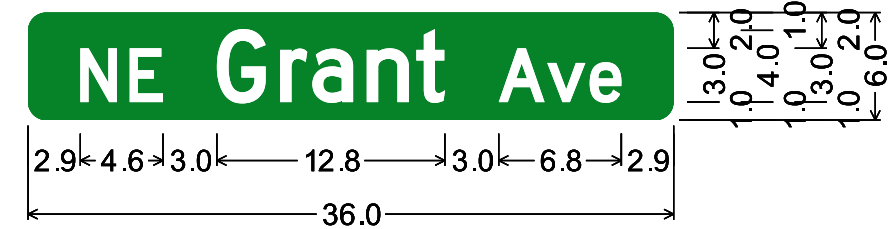
N	W	L	a	k	e	S	t
4.7	7.2	13.8	16.6	19.7	22.6	27.9	30.1



1.0" Radius, No border, White on Green;
"SW High Ave", D 2K;

Table of letter and object lefts

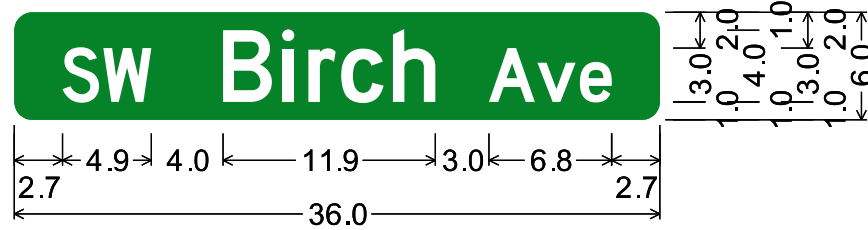
S	W	H	i	g	h
3.4	5.7	12.3	15.9	17.2	20.4
A	v	e			
25.8	28.5	30.8			



1.0" Radius, No border, White on Green;
"NE Grant Ave", D 2K;

Table of letter and object lefts

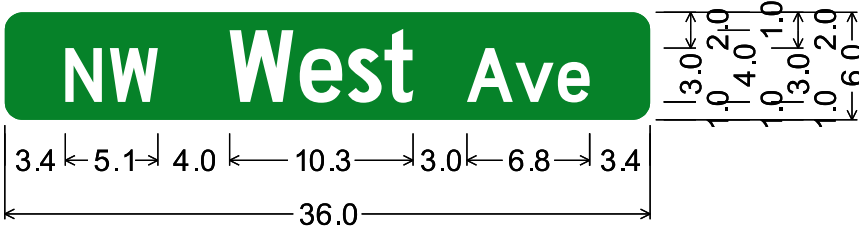
N	E	G	r	a	n	t
2.9	5.7	10.5	14.1	15.9	18.9	21.7
A	v	e				
26.3	29.0	31.3				



1.0" Radius, No border, White on Green;
"SW Birch Ave", D 2K;

Table of letter and object lefts

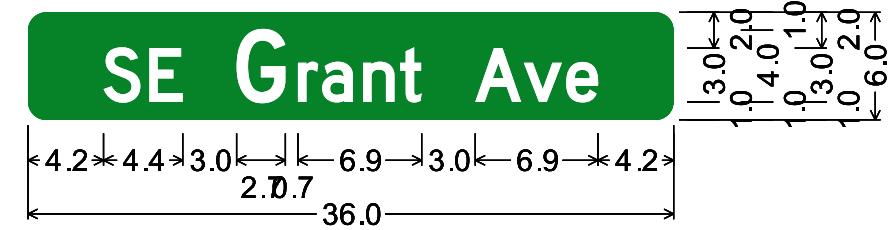
S	W	B	i	r	c	h
2.7	5.0	11.6	15.0	16.4	18.2	21.1
A	v	e				
26.5	29.2	31.5				



1.0" Radius, No border, White on Green;
"NW West Ave", D 2K;

Table of letter and object lefts

N	W	W	e	s	t
3.4	5.9	12.5	16.5	19.1	21.2
A	v	e			
25.8	28.5	30.9			



1.0" Radius, No border, White on Green;
"SE Grant Ave", D 2K;

Table of letter and object lefts

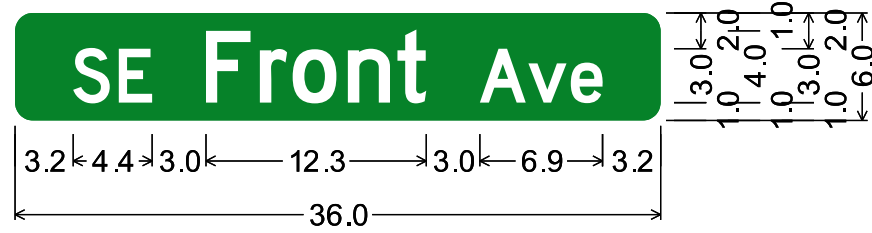
S	E	G	r	a	n	t
4.2	6.8	11.6	15.0	16.4	18.7	20.7
A	v	e				
24.9	27.6	30.0				

SPECIAL SIGN DETAIL

FLAT ALUMINUM SIGNS WITH NONREMOVABLE COPY Type IV Sheeting

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET S24	TOTAL SHEETS S35
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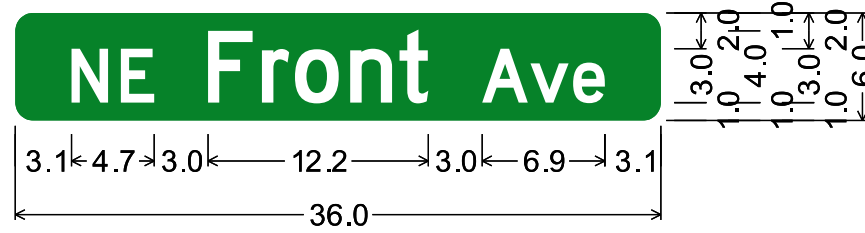
Plotting Date: 09/11/2024



1.0" Radius, No border, White on Green;
"SE Front Ave", D 2K;

Table of letter and object lefts

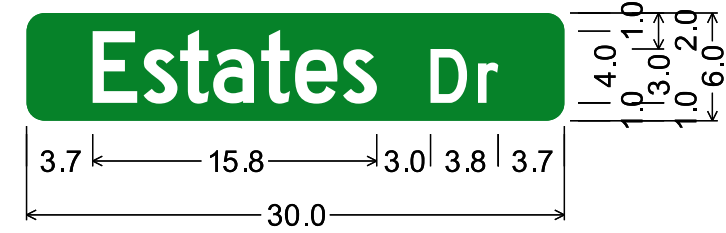
S	E	F	r	o	n	t
3.2	5.8	10.6	13.6	15.5	18.6	21.3
A	v	e				
25.9	28.6	31.0				



1.0" Radius, No border, White on Green;
"NE Front Ave", D 2K;

Table of letter and object lefts

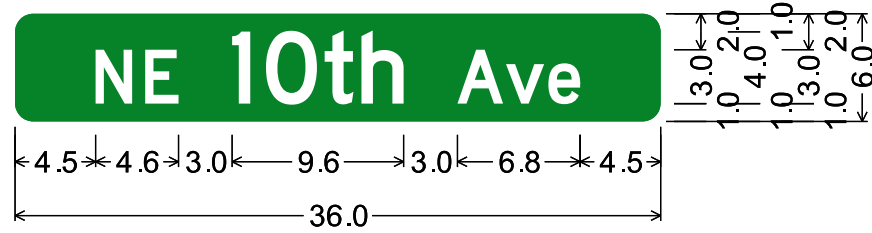
N	E	F	r	o	n	t
3.1	5.9	10.8	13.8	15.6	18.7	21.4
A	v	e				
26.0	28.7	31.1				



1.0" Radius, No border, White on Green;
"Estates Dr", D 2K;

Table of letter and object lefts

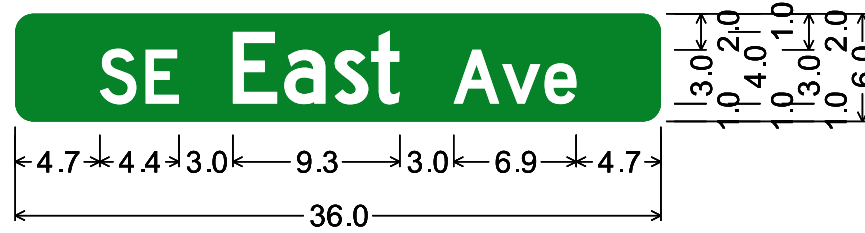
E	s	t	a	t	e	s
3.7	6.5	8.6	10.4	13.1	15.0	17.7
D	r					
22.5	25.2					



1.0" Radius, No border, White on Green;
"NE 10th Ave", D 2K;

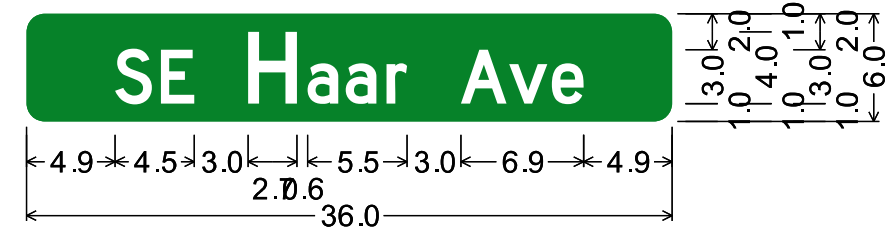
Table of letter and object lefts

N	E	l	o	t	h
4.5	7.3	12.1	14.0	17.3	19.3
A	v	e			
24.7	27.4	29.7			



1.0" Radius, No border, White on Green;
"SE East Ave", D 2K;

Table of letter and object lefts



1.0" Radius, No border, White on Green;
"SE Haar Ave", D 2K;

Table of letter and object lefts

S	E	H	a	a	r
4.9	7.5	12.4	15.7	17.8	20.1
A	v	e			
24.2	26.9	29.3			

SCHOOL SPEED LIMIT BEACON INSTALLATION (TYPICAL)

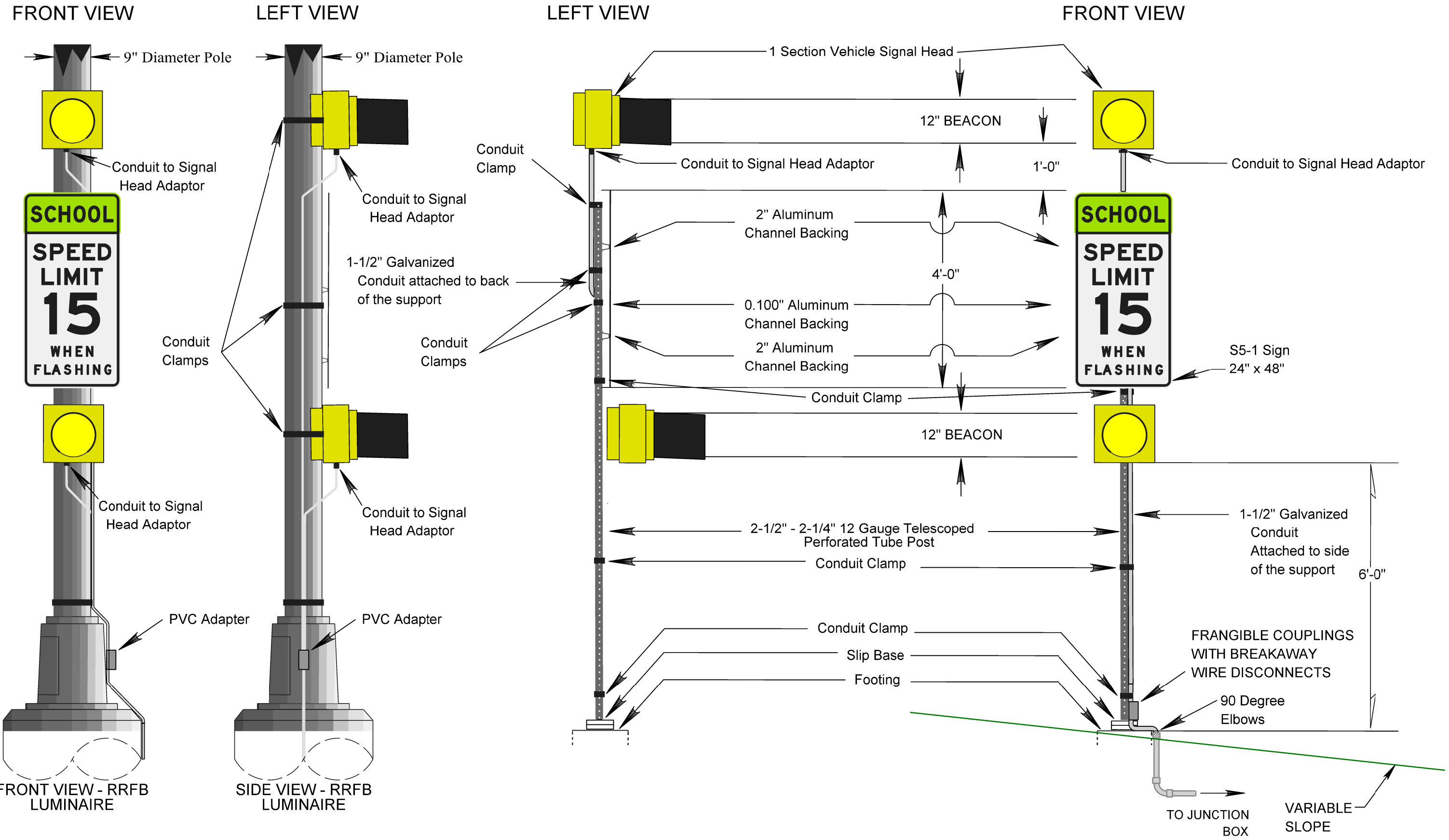
STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET S25	TOTAL SHEETS S35
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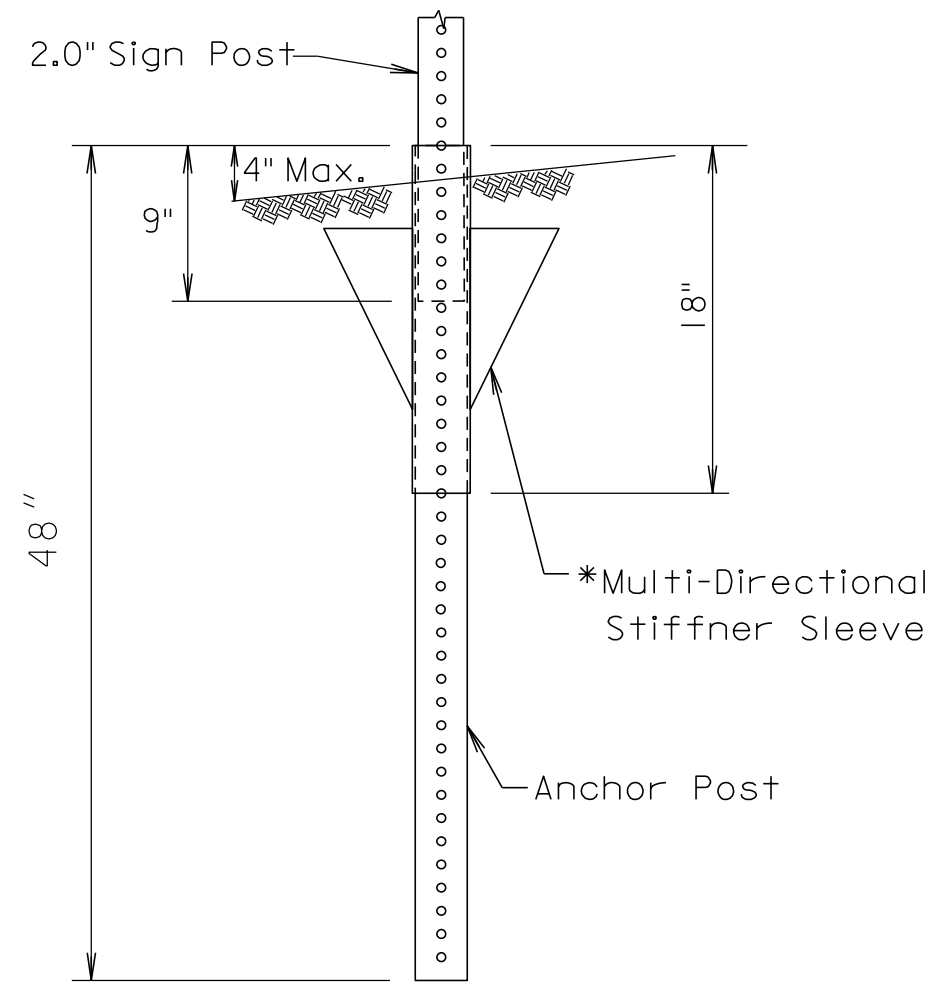
Plotting Date: 09/10/2024

PLOT SCALE - 1:199,992

PLOT NAME - 9

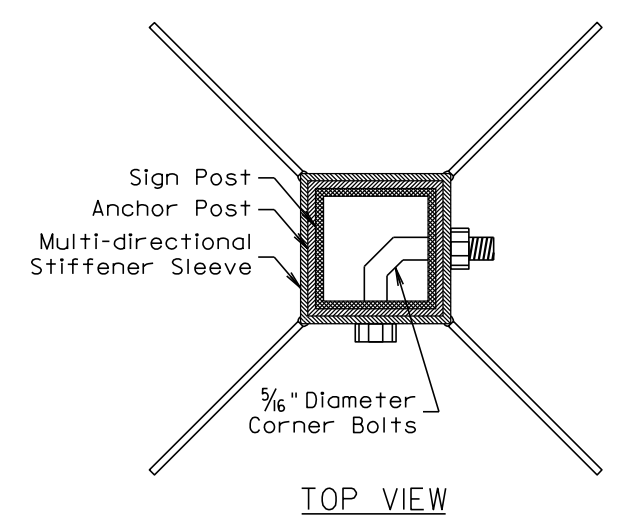
FILE - ... \09JUN SECTION S CONTAINER.DGN



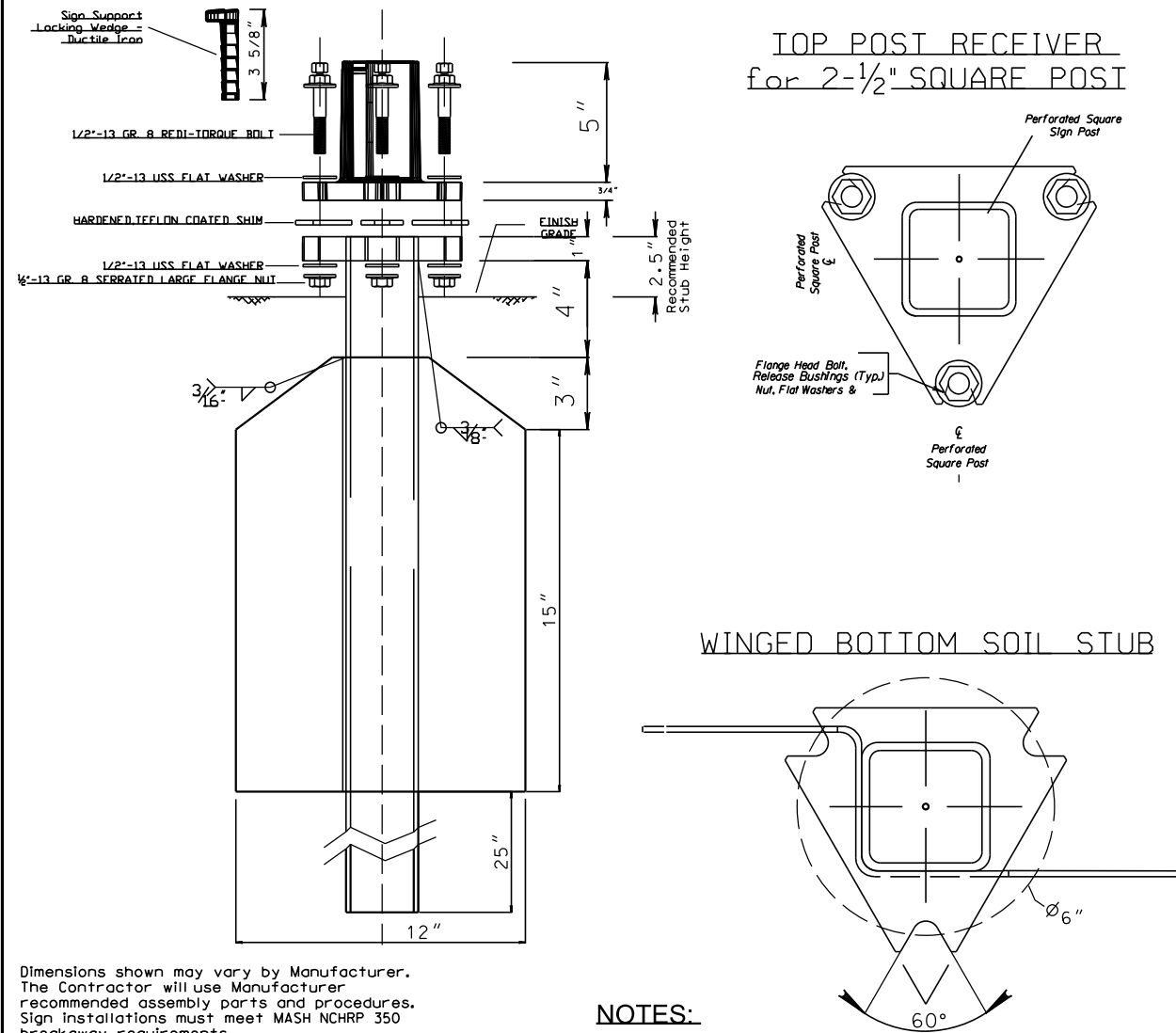


* 18" Multi-directional Sleeve w/4 Blades, or Equivalent.
Manufacturer Recommended Dimensions and Installation.

POST SIZE	
Sign Post	2"
Anchor Post	2 1/4"
Stiffener Sleeve	2 1/2"



2 1/2" SQUARE STEEL PERFORATED TUBE POST WINGED BREAKAWAY ANCHOR DETAILS FOR SOIL INSTALLATIONS (Typical)



Dimensions shown may vary by Manufacturer. The Contractor will use Manufacturer recommended assembly parts and procedures. Sign installations must meet MASH NCHRP 350 breakaway requirements.

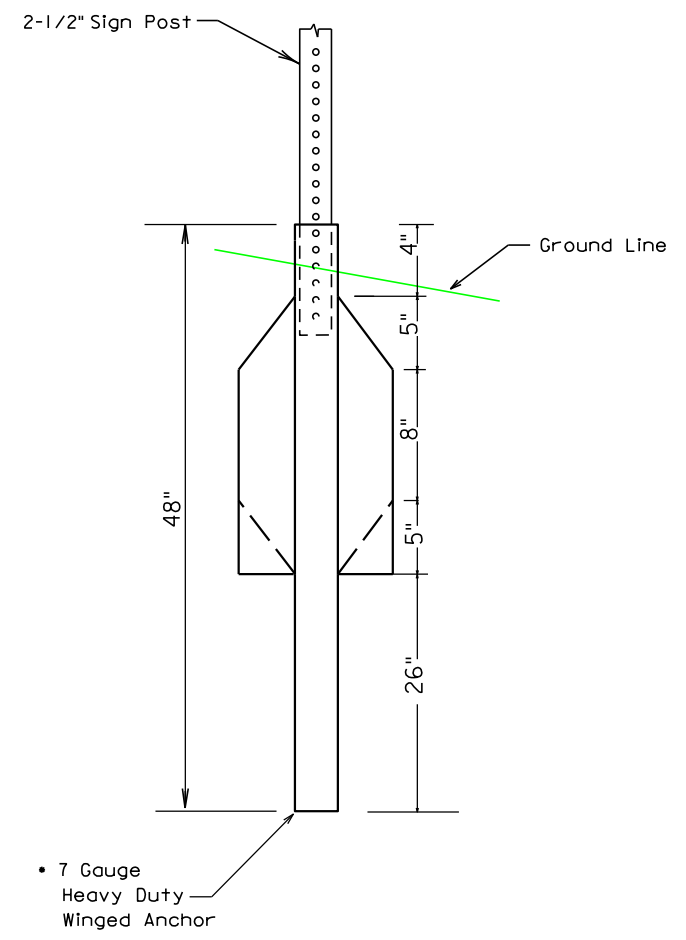
NOTES:

1. Install per manufactures recomendations.
2. Bolt system used will supply proper torque.

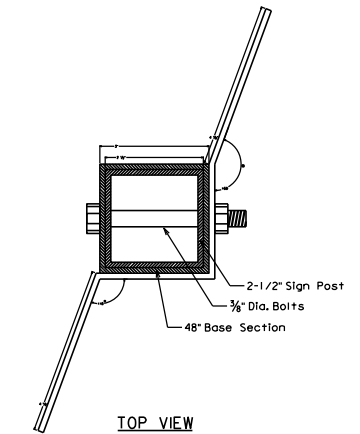
GENERAL NOTES-

1. The manufacturer must provide certification that the breakaway system furnished will develop the full shear and bending yield strength of the sign post section being spliced.
2. All posts must be galvanized in accordance with ASTM A653, Des. G-90.
3. All hardware must be galvanized in accordance with ASTM A153.

2 1/2" SQUARE STEEL PERFORATED TUBE POST WINGED BREAKAWAY NON-SLIP BASE ANCHOR DETAILS FOR SOIL INSTALLATIONS (Typical)



- 7 Gauge Heavy Duty Winged Anchor



Dimensions shown may vary by Manufacturer. The Contractor shall use Manufacturer recommended assembly parts and procedures. Sign installations must meet MASH NCHRP 350 breakaway requirements.

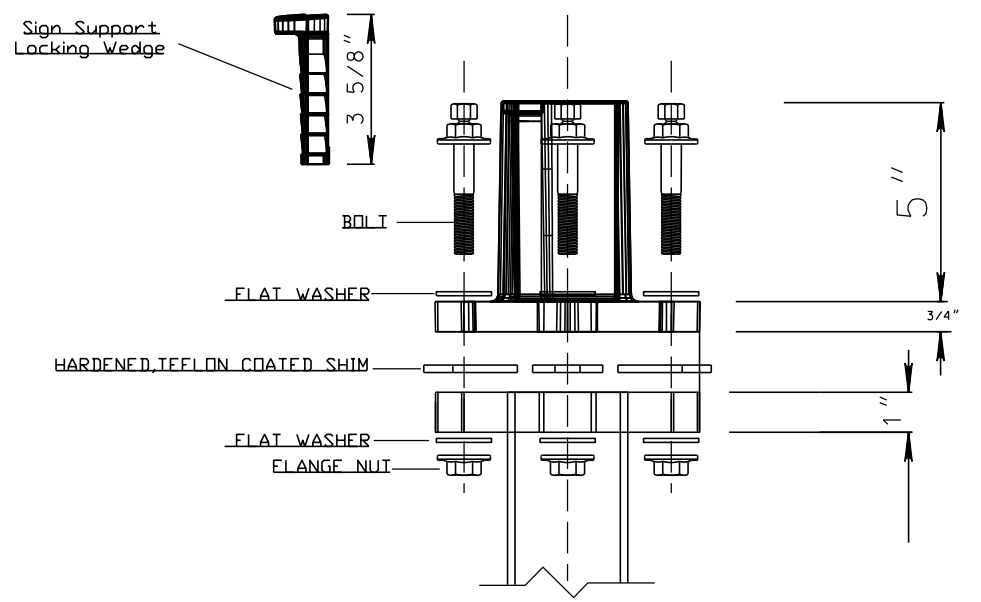
PLOT SCALE - 1:199,992

PLOTTED FROM - TRM113314

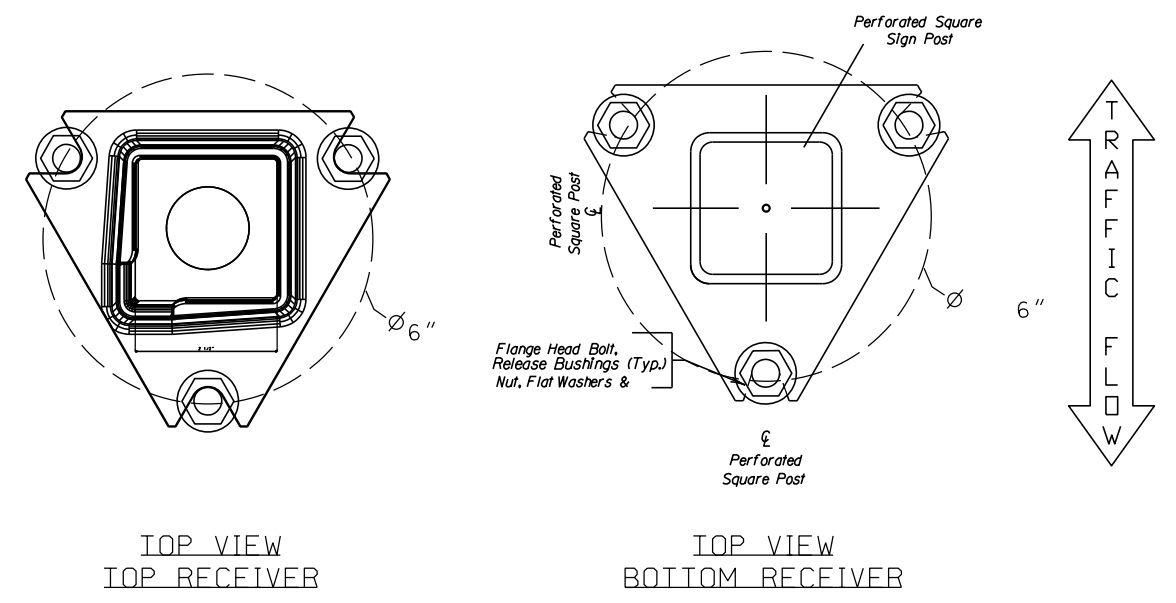
PLOT NAME - 12

FILE - ... \05JUN SECTION S CONTAINER.DGN

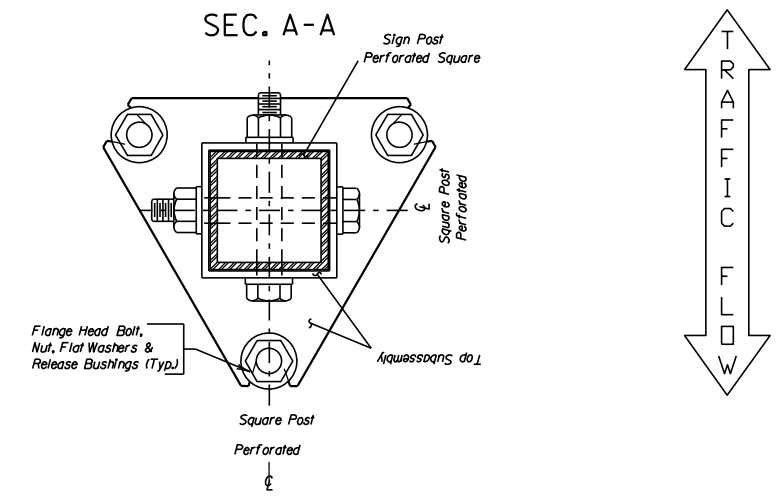
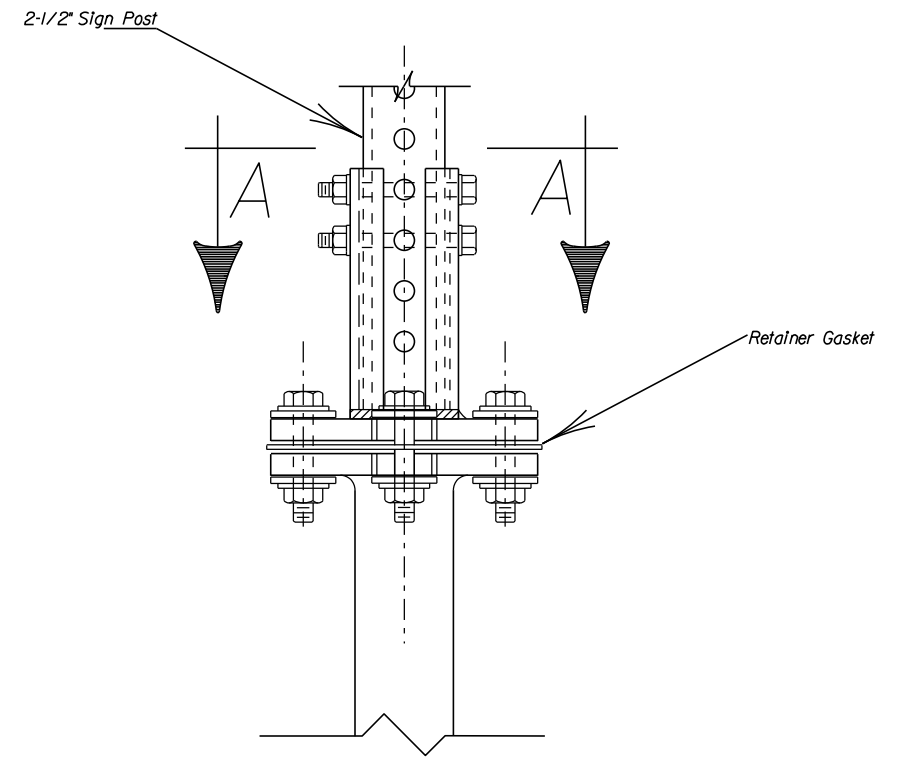
TOP POST RECEIVER for 2-1/2" SQUARE POST

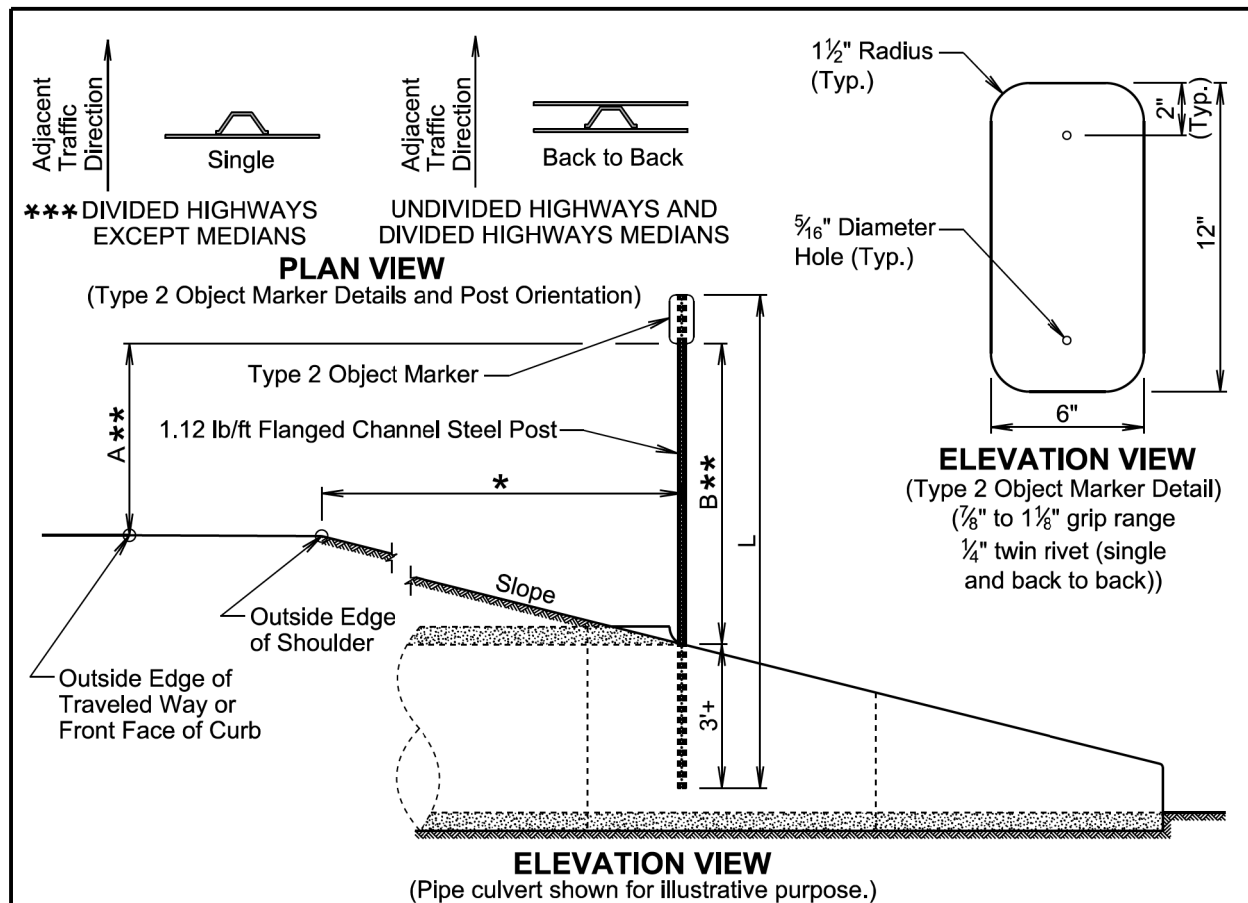


Dimensions shown may vary by Manufacturer.
Manufacturer recommended dimension and installation.
Sign installation must meet NCHRP 350 or MASH breakaway requirements.



TOP POST RECEIVER for 2-1/2" SQUARE POST





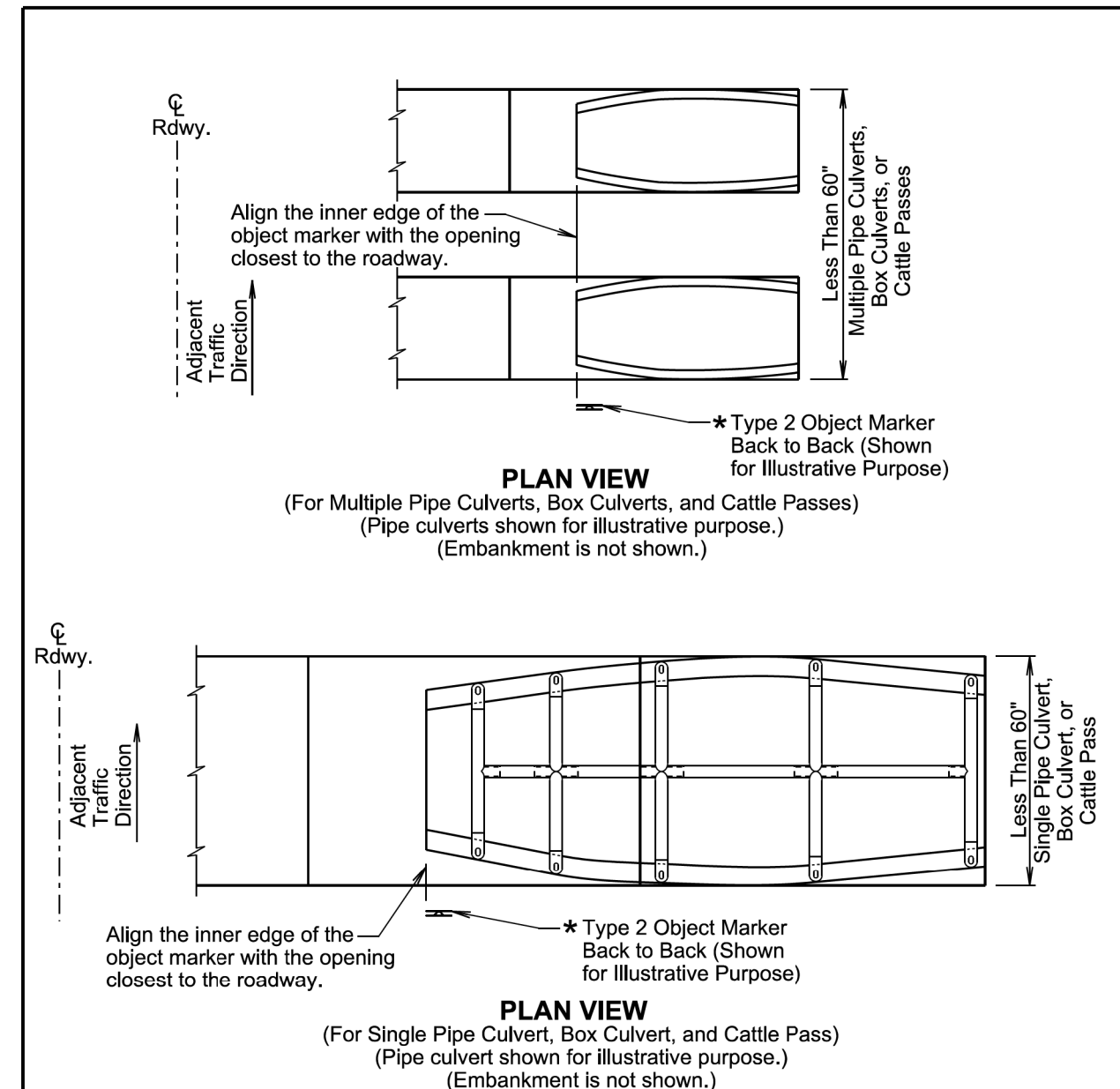
TYPE 2 OBJECT MARKER POST LENGTHS										
OFFSET (*)	1'	2'	3'	4'	5'	6'	7'	8'	Greater Than 8'	
POST LENGTH (L)										
SLOPE	3:1	8'-6"	8'-9"	9'-3"	9'-6"	9'-9"	10'-3"	10'-6"	10'-9"	8'-0"
	4:1	8'-6"	8'-9"	9'-0"	9'-3"	9'-9"	9'-9"	10'-0"	10'-3"	8'-0"
	5:1	8'-3"	8'-6"	8'-9"	9'-0"	9'-3"	9'-3"	9'-6"	9'-9"	8'-0"
	6:1	8'-3"	8'-6"	8'-9"	8'-9"	9'-0"	9'-3"	9'-3"	9'-6"	8'-0"

GENERAL NOTES:

- *** The type 2 object marker may be installed back to back when specified in the plans.
Post Length L was calculated based on a shoulder width of 6 feet at a crossslope of 4 percent and L was rounded up to the nearest 3 inches.
- ** Dimension A is 4 feet when the Offset * is 8 feet and less. Dimension B is 4 feet when Offset * is greater than 8 feet.
The type 2 object marker and the 1.12 lb/ft flanged channel steel post will be in conformance with Specifications Section 982.2 J.
Payment for the type 2 object marker will be in conformance with Specification Section 632.5 B.

December 23, 2019

Published Date: 2025	S D D O T	TYPE 2 OBJECT MARKER (DIRECT DRIVE)	PLATE NUMBER 632.01
			Sheet 1 of 1

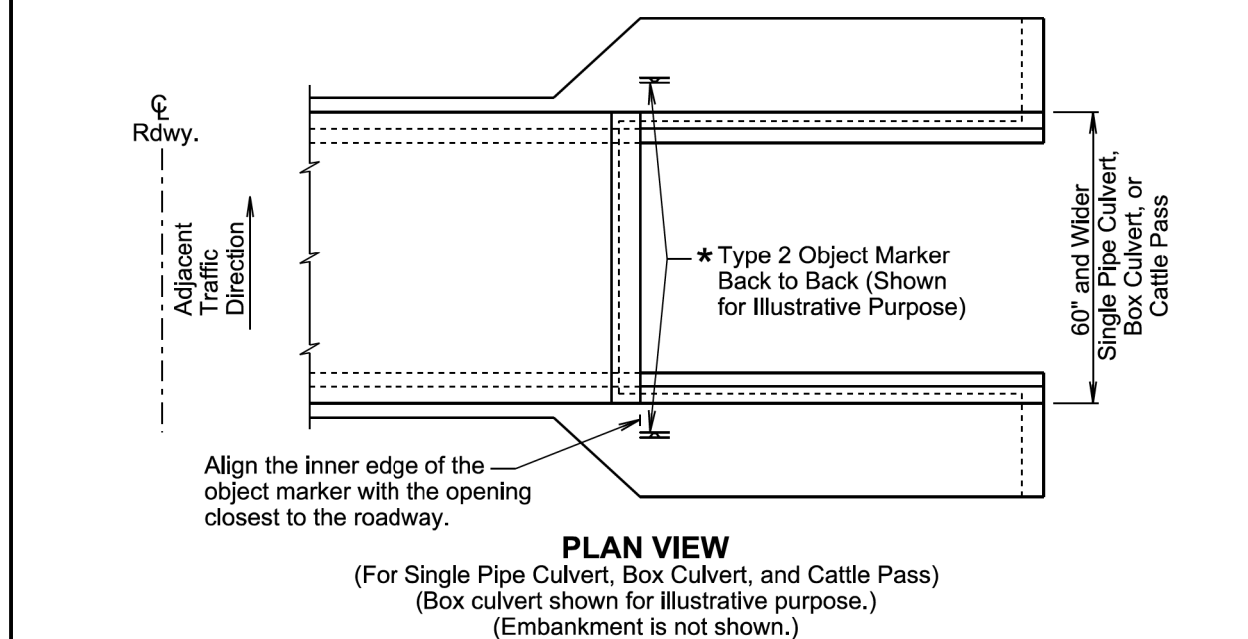
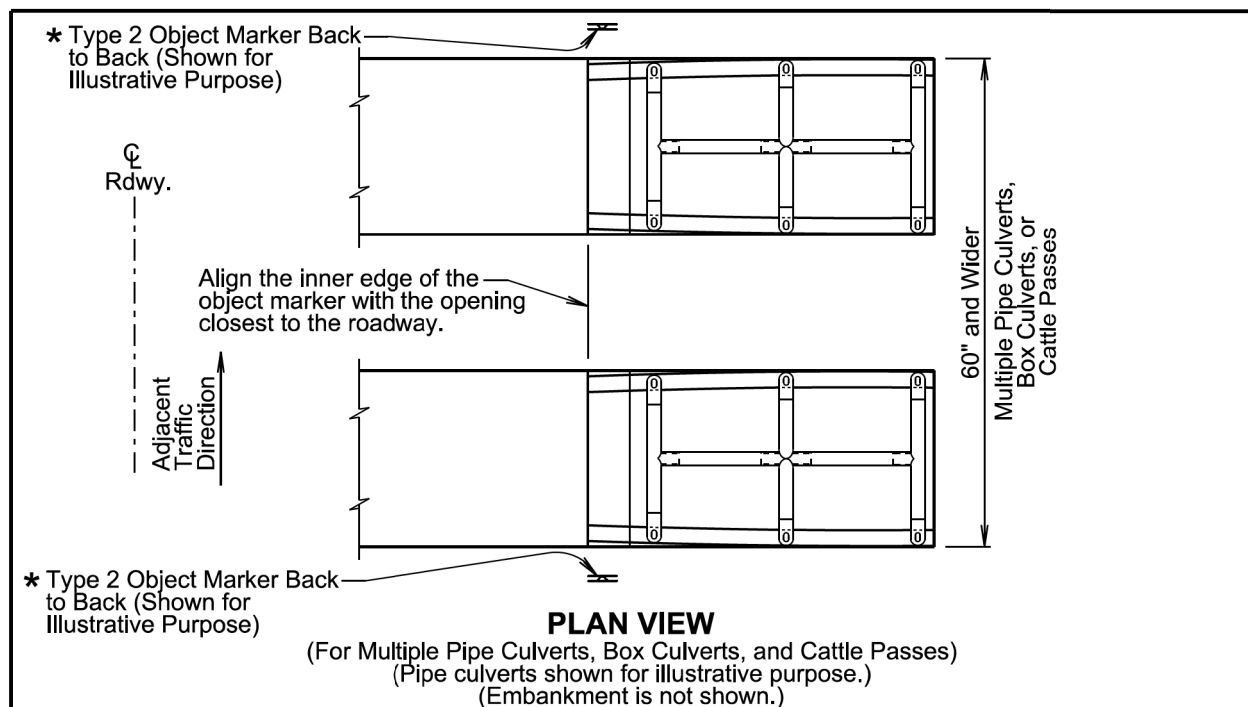


GENERAL NOTES:

- This standard plate will be used in conjunction with standard plate 632.01.
- * The type 2 object markers will be installed at the locations shown above. The type 2 object markers, single faced or back to back, will be as specified in the plans.

December 23, 2019

Published Date: 2025	S D D O T	TYPE 2 OBJECT MARKER AT PIPE CULVERTS, BOX CULVERTS, AND CATTLE PASSES (Less than 60" Overall Width)	PLATE NUMBER 632.03
			Sheet 1 of 1



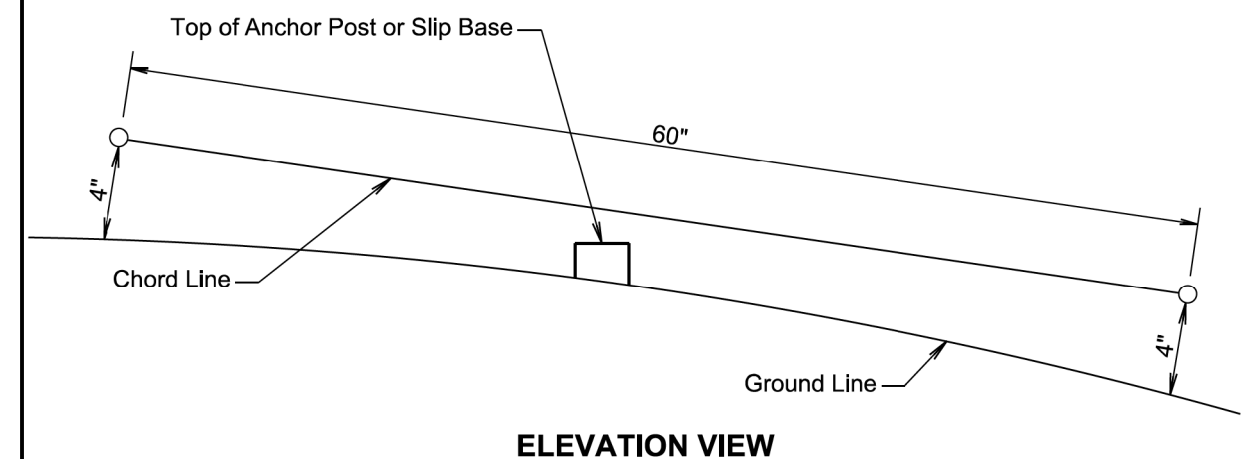
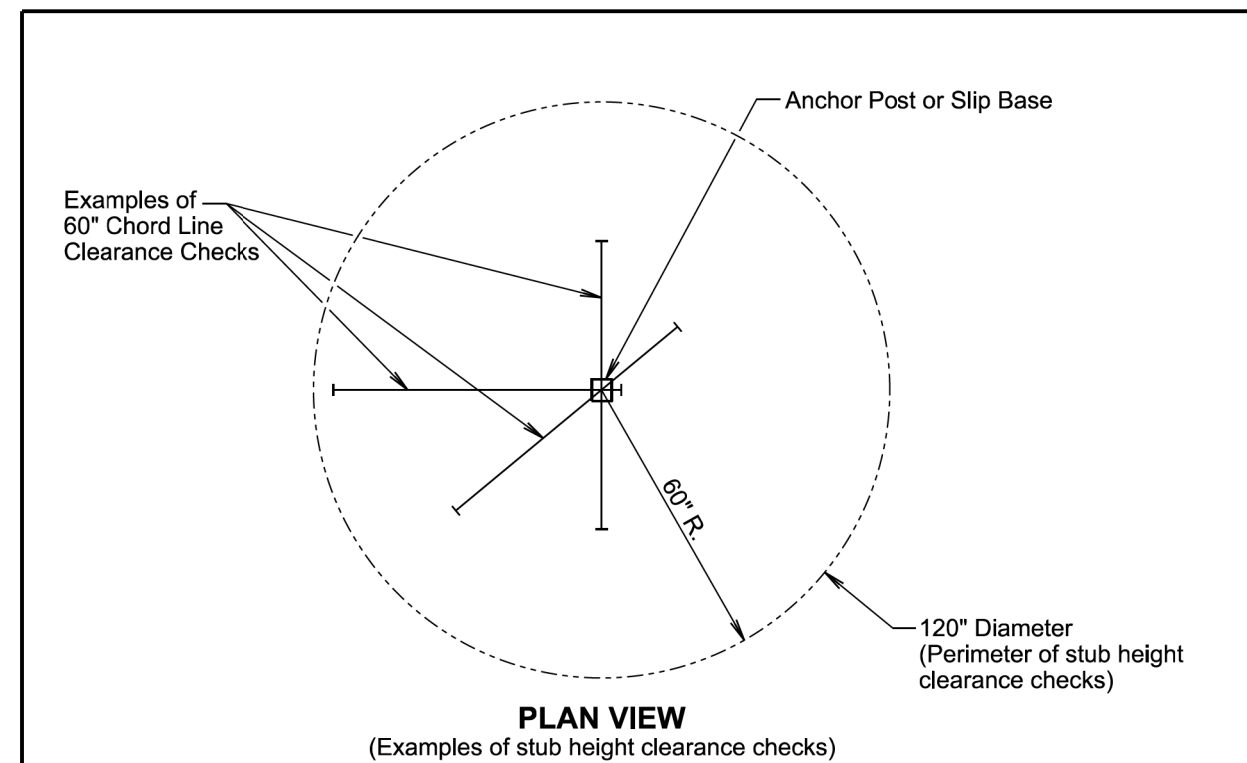
GENERAL NOTES:

This standard plate will be used in conjunction with standard plate 632.01.

* The type 2 object markers will be installed at the locations shown above. The type 2 object markers, single faced or back to back, will be as specified in the plans.

December 23, 2019

Published Date: 2025	S D D O T	TYPE 2 OBJECT MARKER AT PIPE CULVERTS, BOX CULVERTS, AND CATTLE PASSES (60" and Greater Overall Width)	PLATE NUMBER 632.04
			Sheet 1 of 1



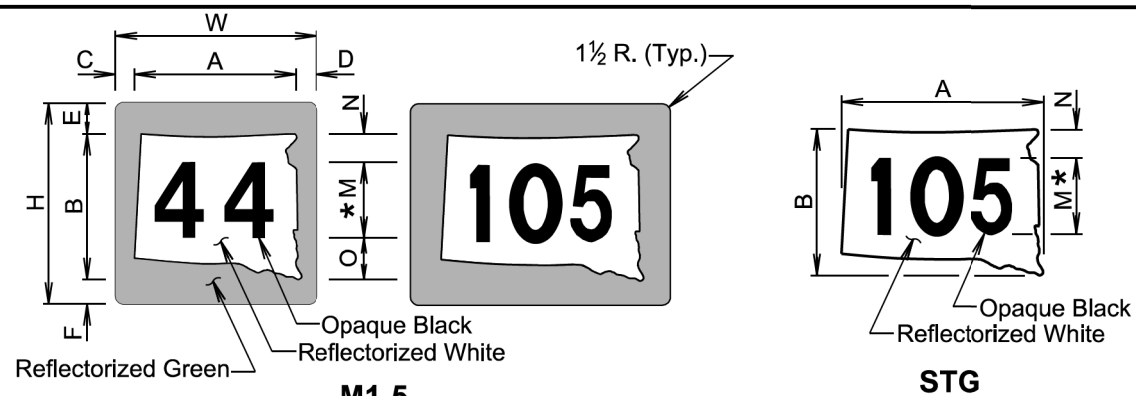
GENERAL NOTES:

The top of anchor posts and slip bases WILL NOT extend above a 60" chord line within a 120" diameter circle around the post with ends 4" above the ground.

At locations where there is curb and gutter adjacent to the breakaway sign support, the stub height will be a maximum of 4" above the ground line at the localized area adjacent to the breakaway support stub.

January 22, 2021

Published Date: 2025	S D D O T	BREAKAWAY SUPPORT STUB CLEARANCE	PLATE NUMBER 632.18
			Sheet 1 of 1

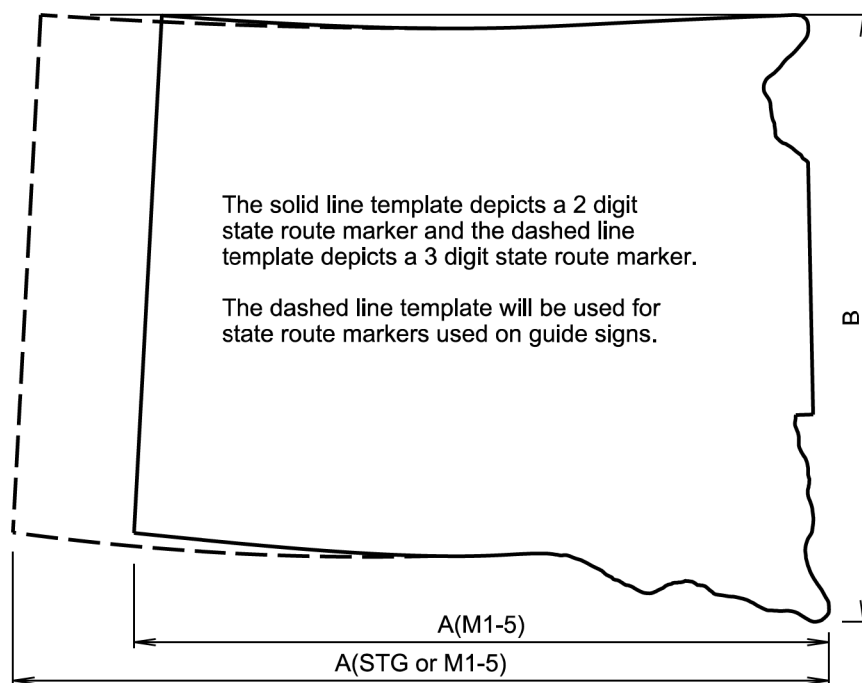


SIGN CODE	WxH	A	B	C	D	E	F	M*	N	O
M1-5	24x24	20 1/2	18	2	1 1/2	3 1/2	2 1/2	12D	2	4
M1-5 **	30x24	24	18	2 1/4	1 3/4	3 1/2	2 1/2	12D	2	4
M1-5	30x30	25 5/8	22 1/2	2 1/2	1 7/8	4 3/8	3 1/8	15D	2 1/2	5
M1-5	36x36	30 3/4	27	3	2 1/4	5 1/4	3 3/4	18D	3	6

SIGN CODE	AxB	M*	N
STG-24	24x18	10D	4
STG-32	32x24	12D	4 3/4
STG-48	48x36	18D	7
STG-64	64x48	24D	9 1/2

* In the few cases where there is not enough space for the numerals, the standard D series font may be replaced with C series font if approved by the Engineer.

** 3 Digits



TEMPLATE FOR STATE ROUTE MARKER

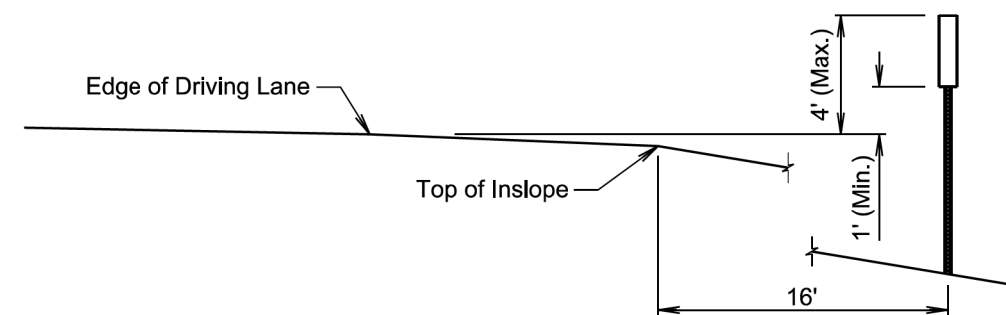
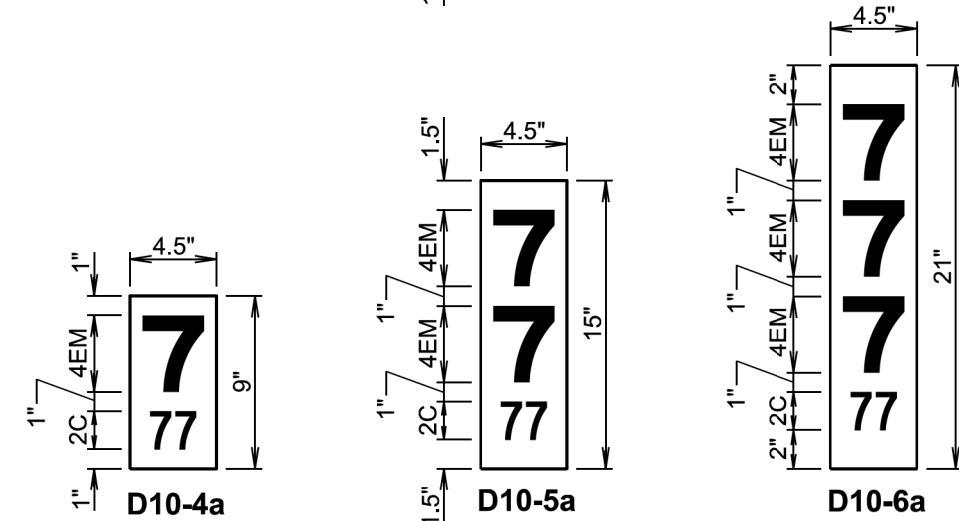
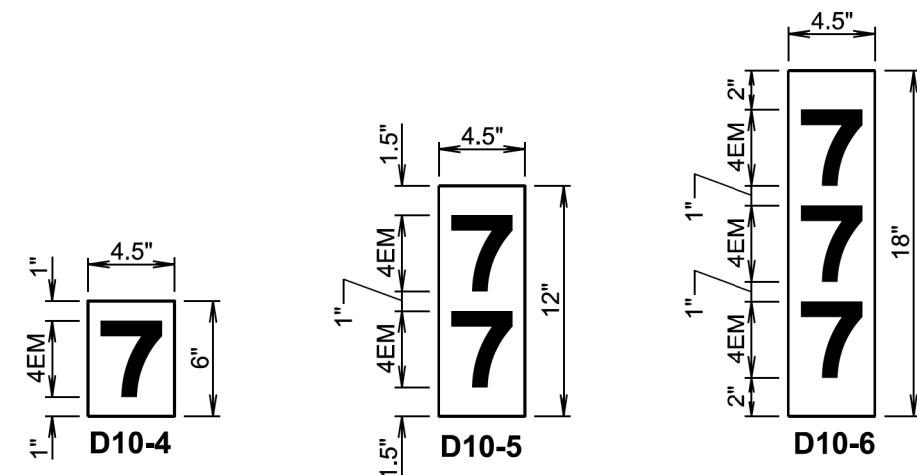
GENERAL NOTES:

The unit for all dimensions shown is inches.

Numerals will be D series font for all state route markers except as noted above.

December 23, 2019

Published Date: 2025	S D D O T	STATE ROUTE MARKERS	PLATE NUMBER 632.20
			Sheet 1 of 1



ELEVATION VIEW

GENERAL NOTES:

Background will be high intensity green.

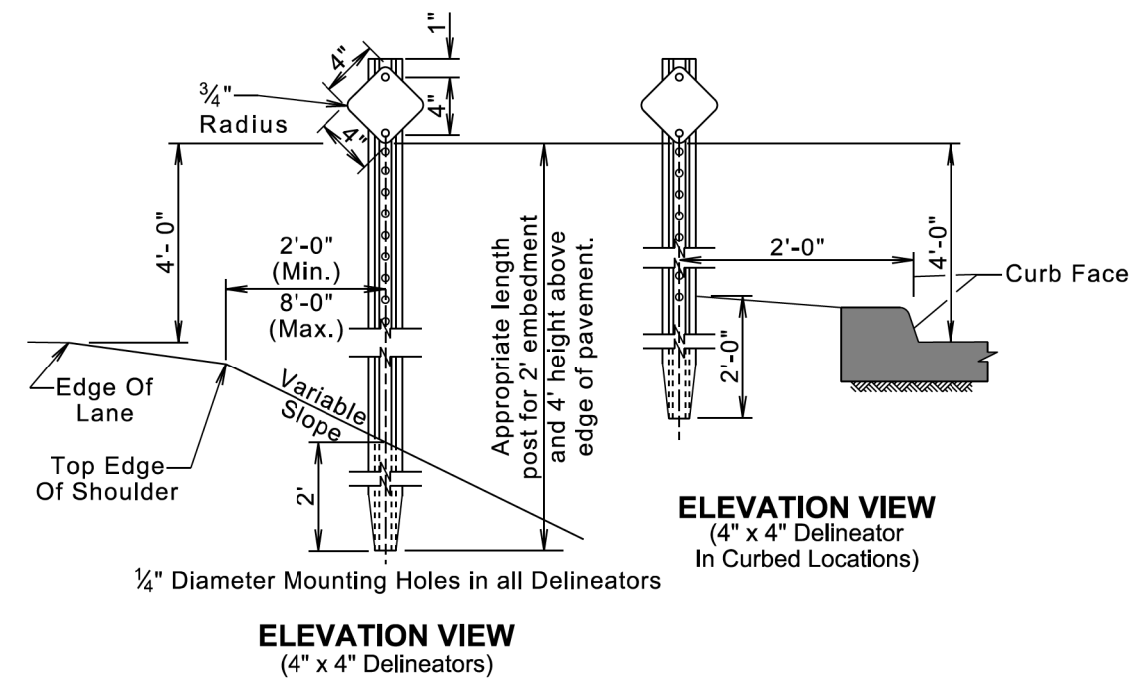
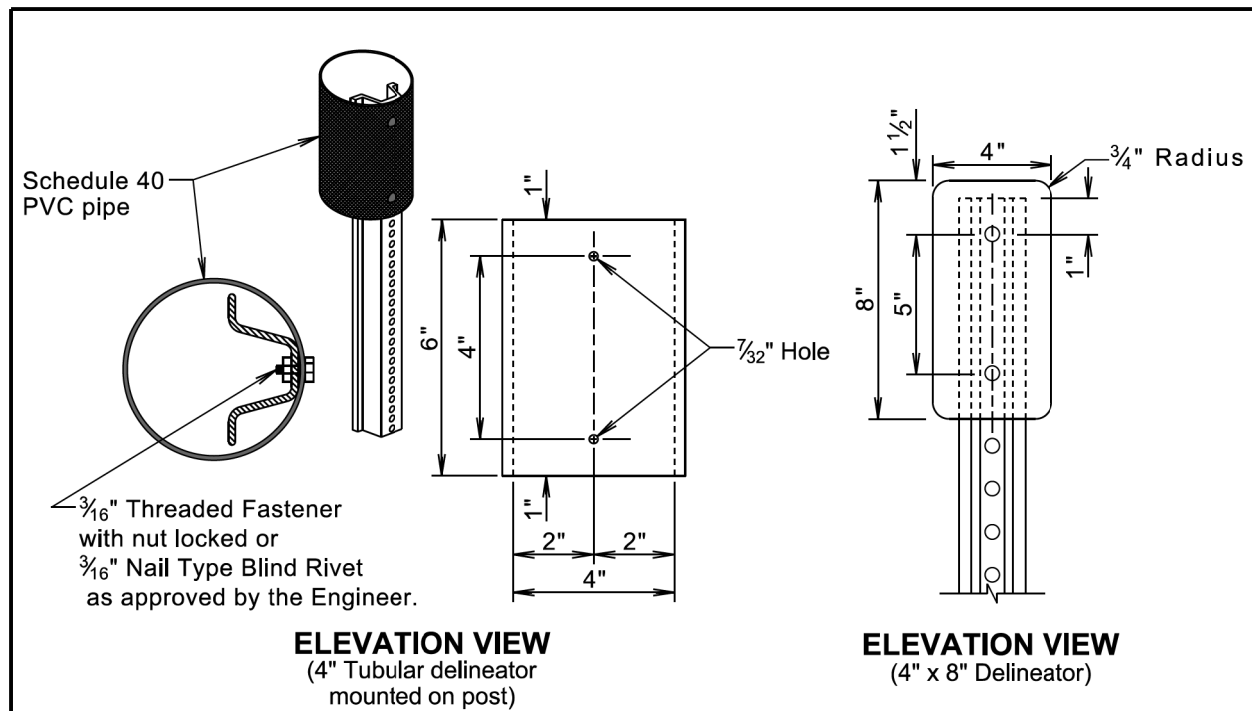
Legend will be high intensity white.

Signs will have squared corners with no border.

Sign locations will be staked by the Engineer.

December 23, 2019

Published Date: 2025	S D D O T	NON-INTERSTATE MILEAGE REFERENCE MARKERS	PLATE NUMBER 632.30
			Sheet 1 of 1



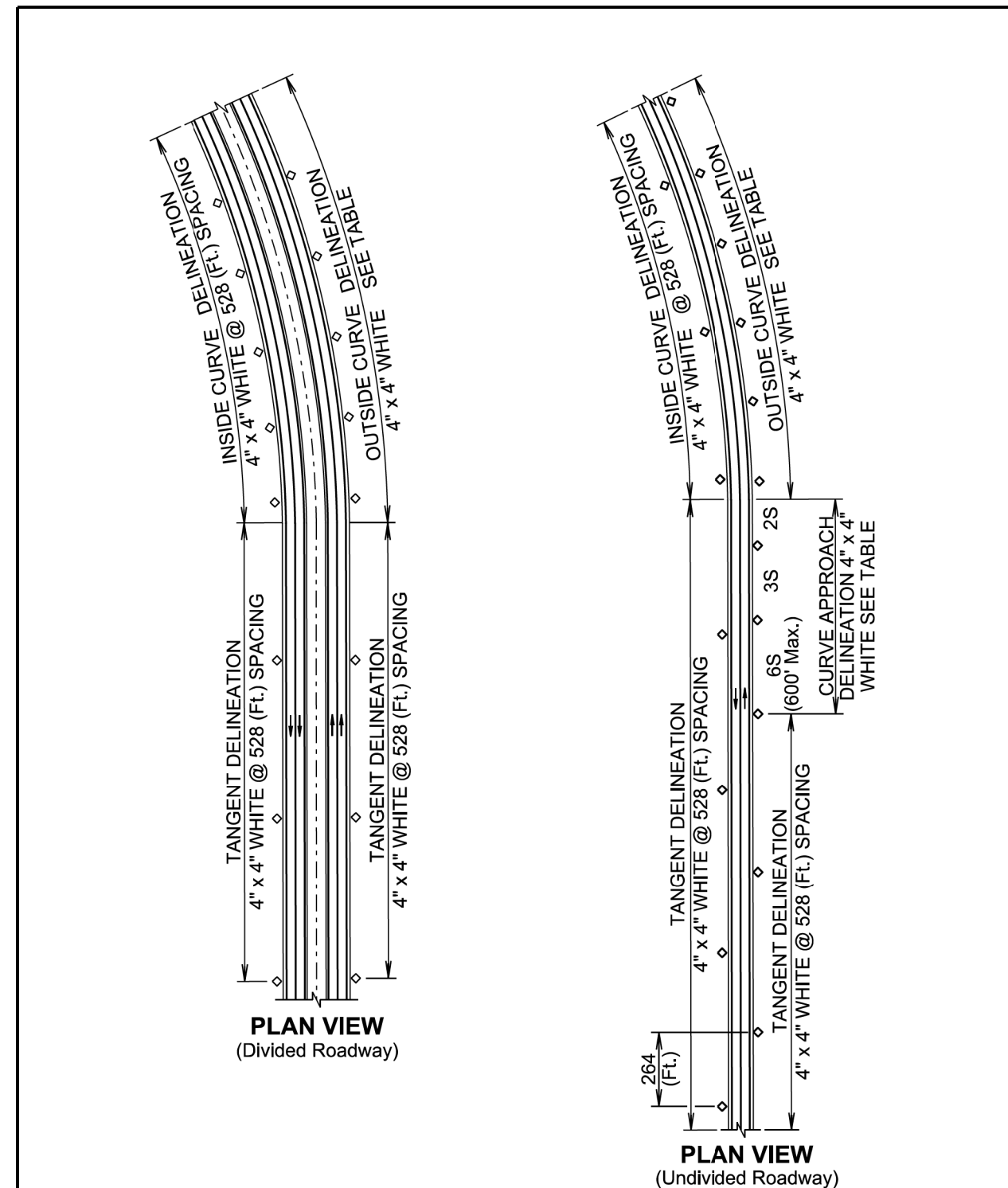
GENERAL NOTES:

Back-to-back delineation is required for two-way traffic, single-sided delineation for one-way traffic.

March 31, 2024

S D D O T	DELINEATOR INSTALLATION DETAIL	PLATE NUMBER 632.42
		Sheet 1 of 1

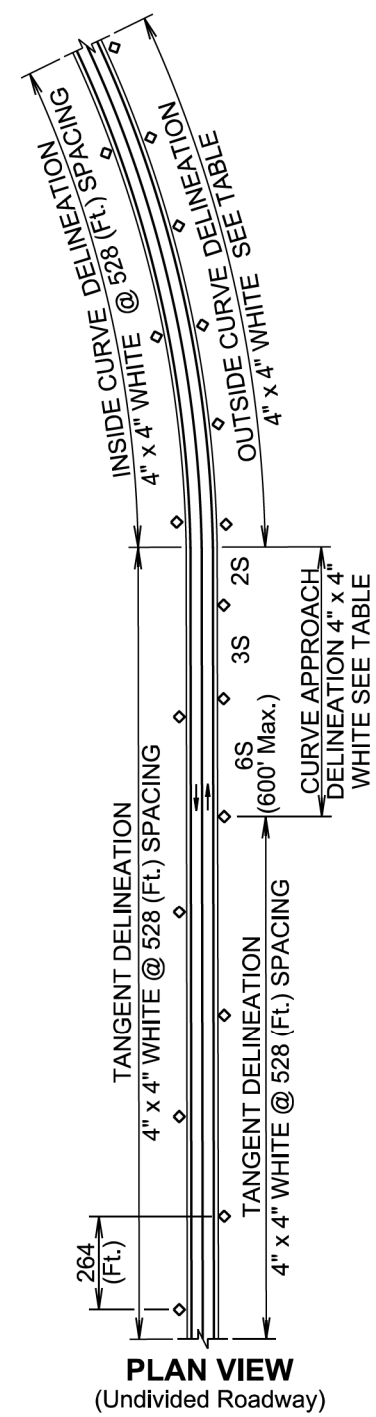
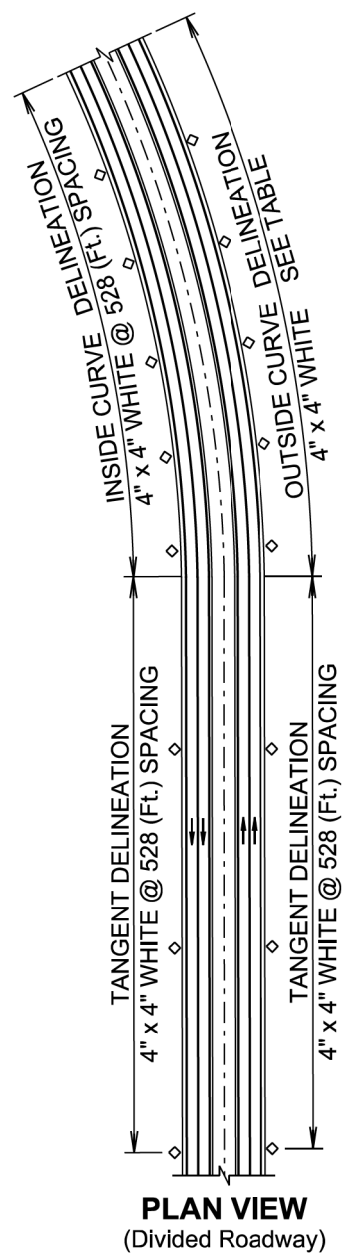
Published Date: 2025



March 31, 2024

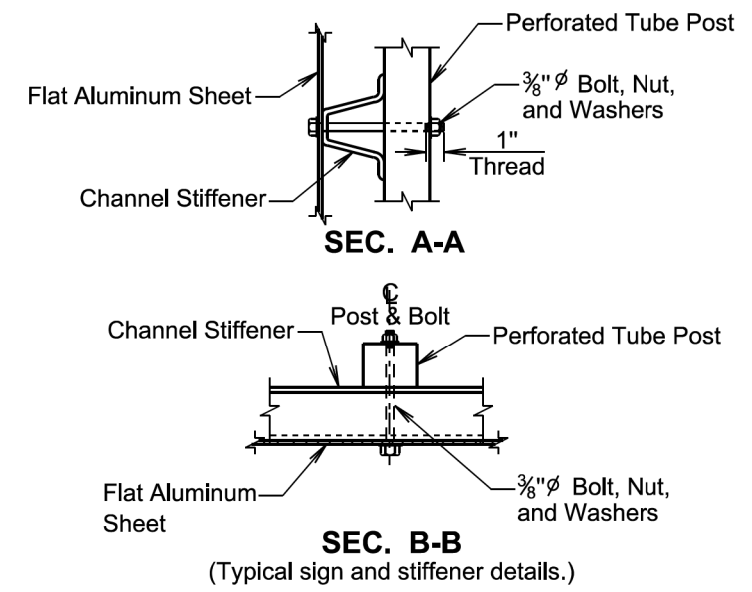
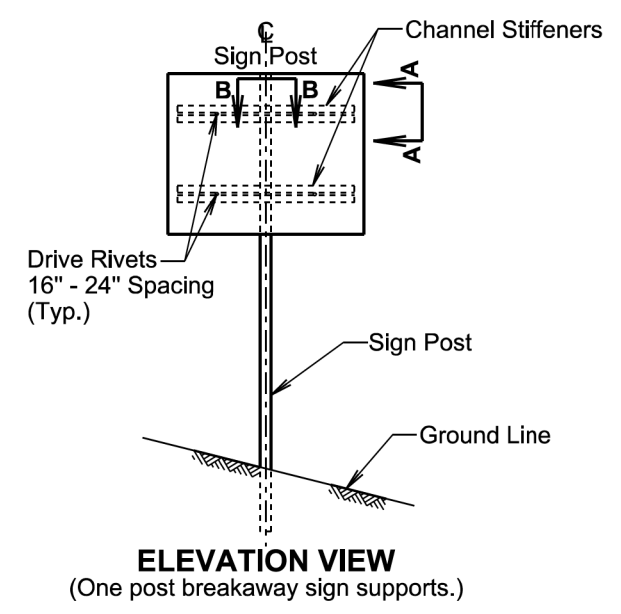
S D D O T	DELINEATOR INSTALLATION SPACING	PLATE NUMBER 632.46
		Sheet 1 of 2

Published Date: 2025



March 31, 2024

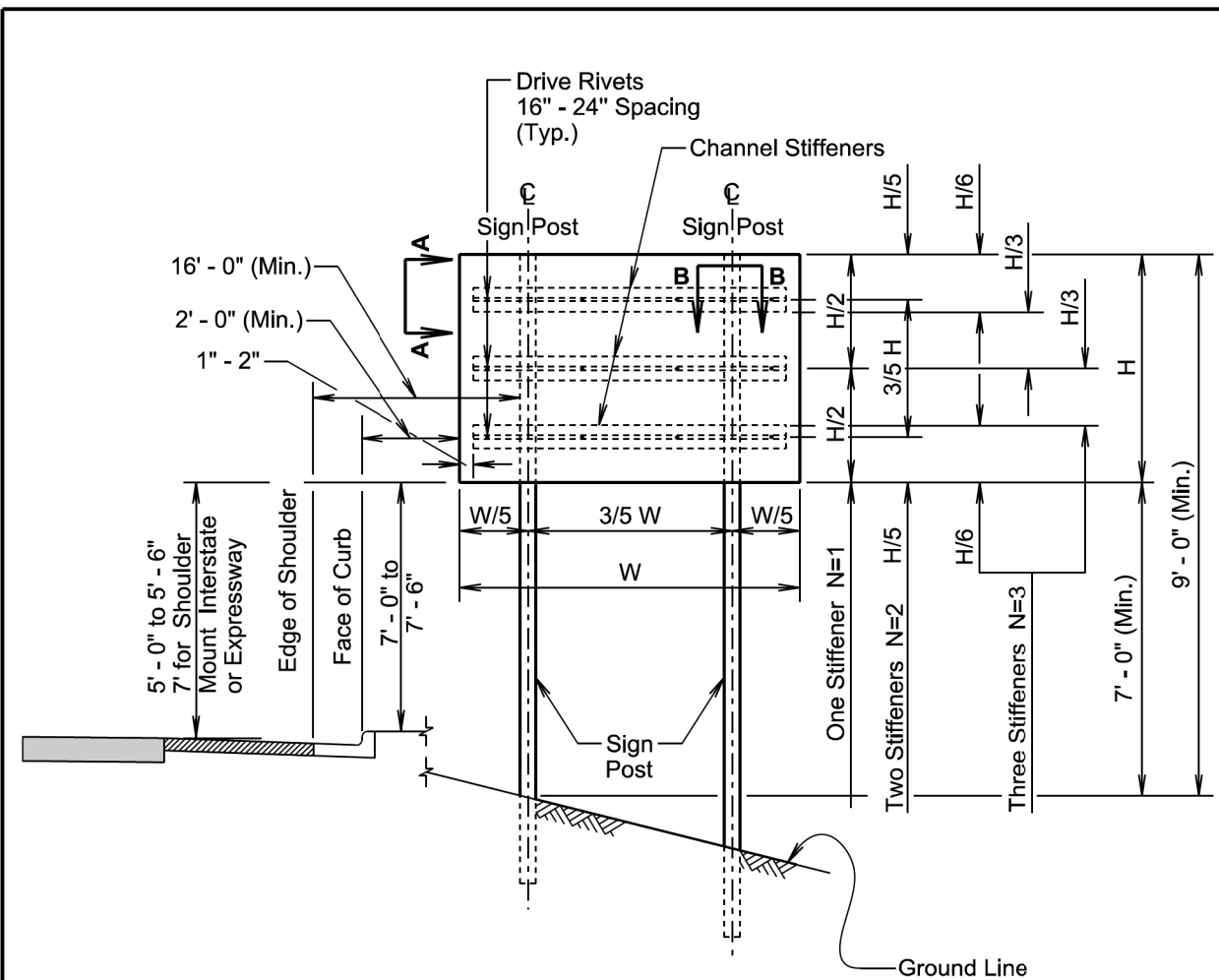
Published Date: 2025	S D D O T	DELINEATOR INSTALLATION SPACING	PLATE NUMBER 632.46
			Sheet 1 of 2



∅ A plastic washer, as recommended by the sheeting manufacturer, will be installed between the sign face and the metal washer shown.

November 19, 2020

Published Date: 2025	S D D O T	SIGN STIFFENER DETAILS	PLATE NUMBER 632.60
			Sheet 1 of 2



TWO POST BREAKAWAY SIGN SUPPORTS

GENERAL NOTES:

The number of stiffeners used (N) will be as follows:
 if $H \leq 2' - 0''$ then $N = 1$
 if $2' - 0'' < H \leq 8' - 0''$ then $N = 2$
 if $8' - 0'' < H \leq 15' - 0''$ then $N = 3$
 where H is the vertical dimension of the sign.

A minimum of two bolts will be required to fasten the sign to each post.

November 19, 2020

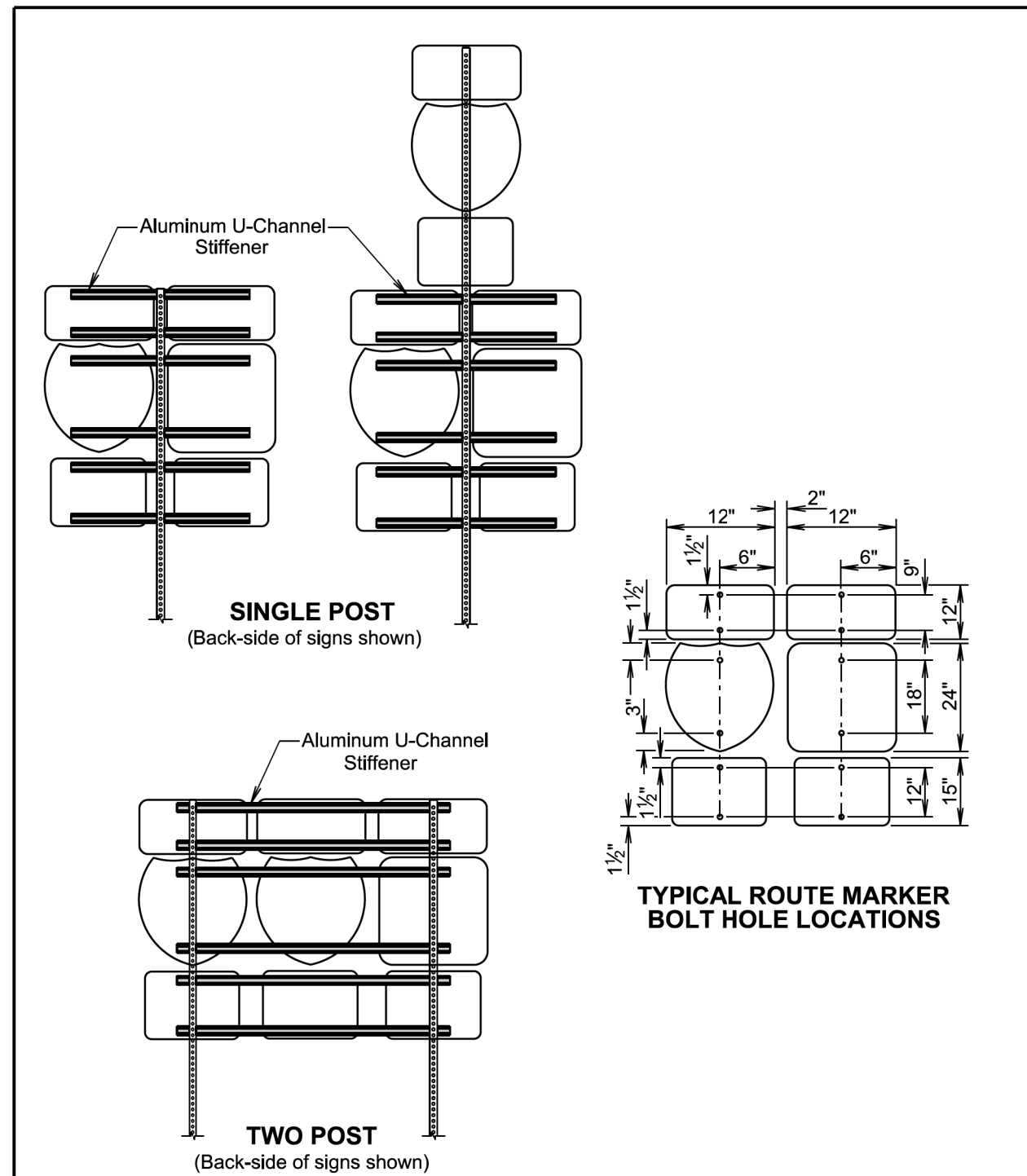
Published Date: 2025

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SIGN STIFFENER DETAILS

PLATE NUMBER
632.60

Sheet 2 of 2



TYPICAL ROUTE MARKER BOLT HOLE LOCATIONS

November 19, 2020

Published Date: 2025

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MULTIPLE ROUTE MARKER SIGN STIFFENER INSTALLATION DETAILS

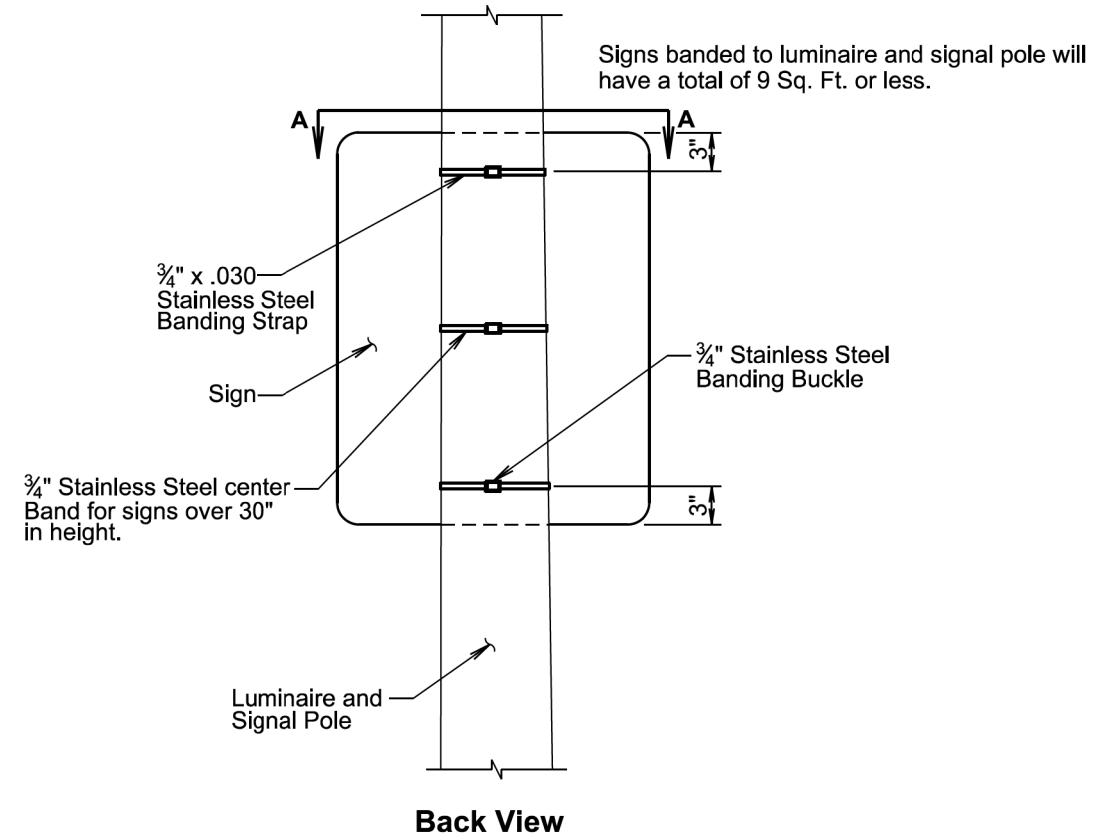
PLATE NUMBER
632.62

Sheet 1 of 1

PLOT SCALE - 1:199,992

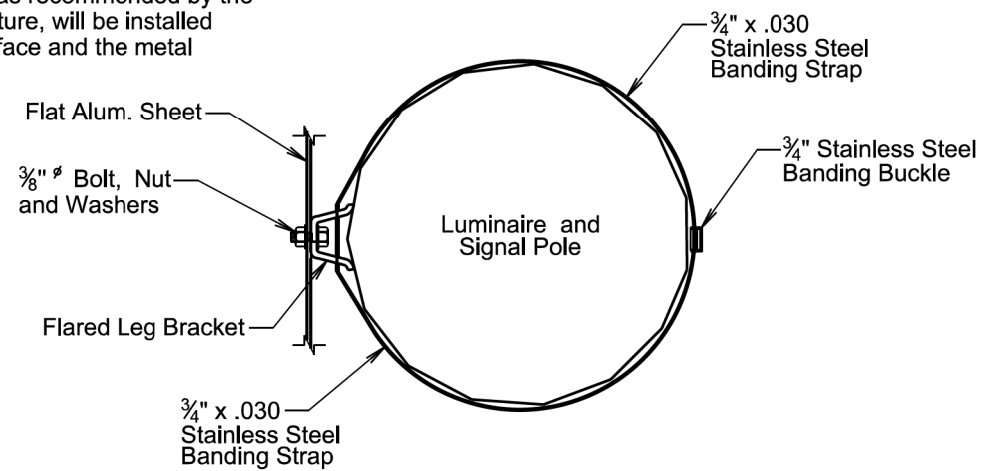
PLOT NAME - 19

FILE - ... \06JUN SECTION S CONTAINER.DGN



Back View

∅ A plastic washer, as recommended by the sheeting manufacture, will be installed between the sign face and the metal washer shown.



View A - A

November 19, 2020

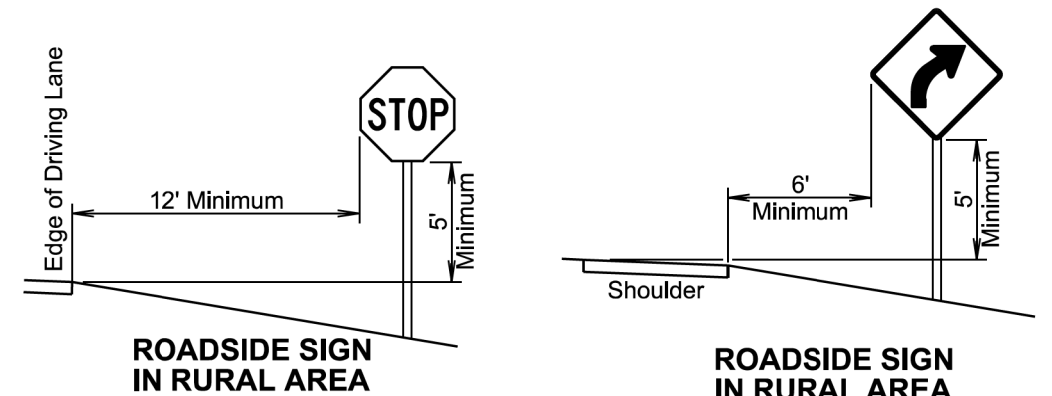
Published Date: 2025

SD
DOT

**BANDING SIGN TO
LUMINAIRE AND SIGNAL POLE**

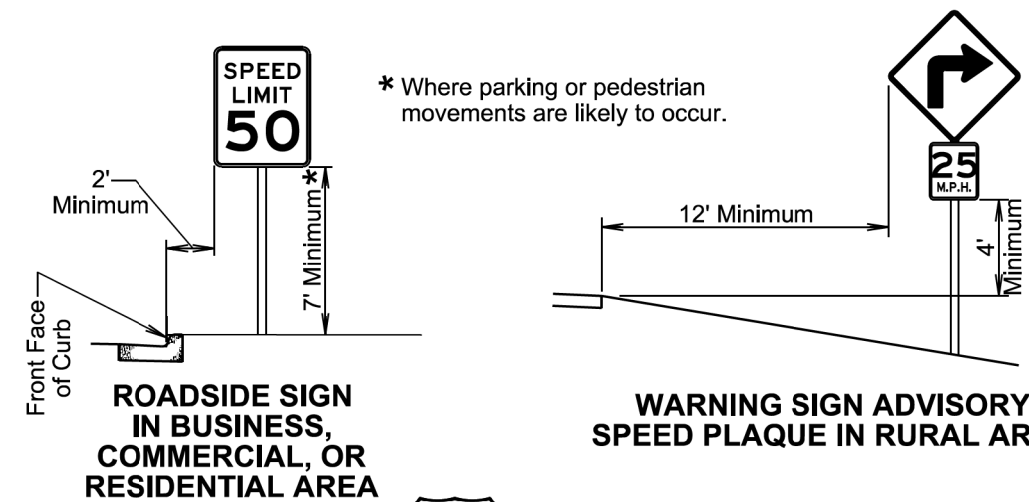
PLATE NUMBER
632.80

Sheet 1 of 1



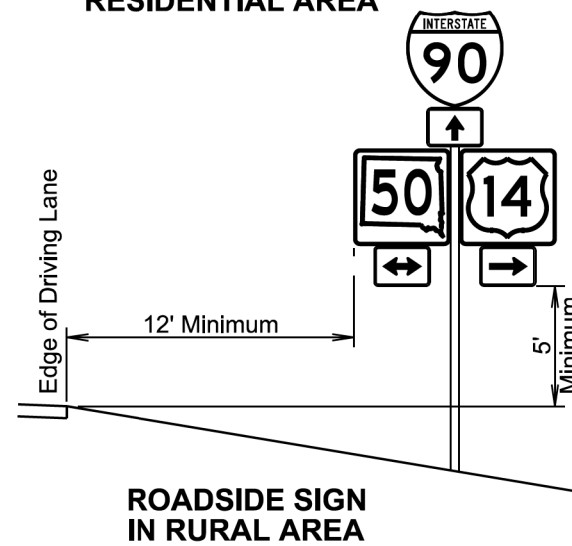
ROADSIDE SIGN
IN RURAL AREA

ROADSIDE SIGN
IN RURAL AREA
(If shoulder width is greater than 6 foot)

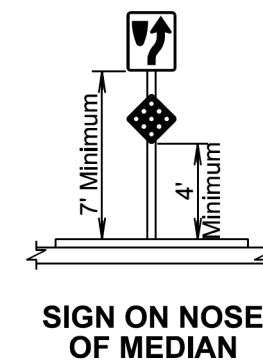


ROADSIDE SIGN
IN BUSINESS,
COMMERCIAL, OR
RESIDENTIAL AREA

WARNING SIGN ADVISORY
SPEED PLAQUE IN RURAL AREA



ROADSIDE SIGN
IN RURAL AREA



SIGN ON NOSE
OF MEDIAN

November 19, 2020

Published Date: 2025

SD
DOT

OFFSETS FOR SIGN INSTALLATION

PLATE NUMBER
632.90

Sheet 1 of 1