

FOR BIDDING PURPOSES ONLY

# SECTION S: PERMANENT SIGN PLANS

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S1	S21
Plotting Date: 07/16/2025			

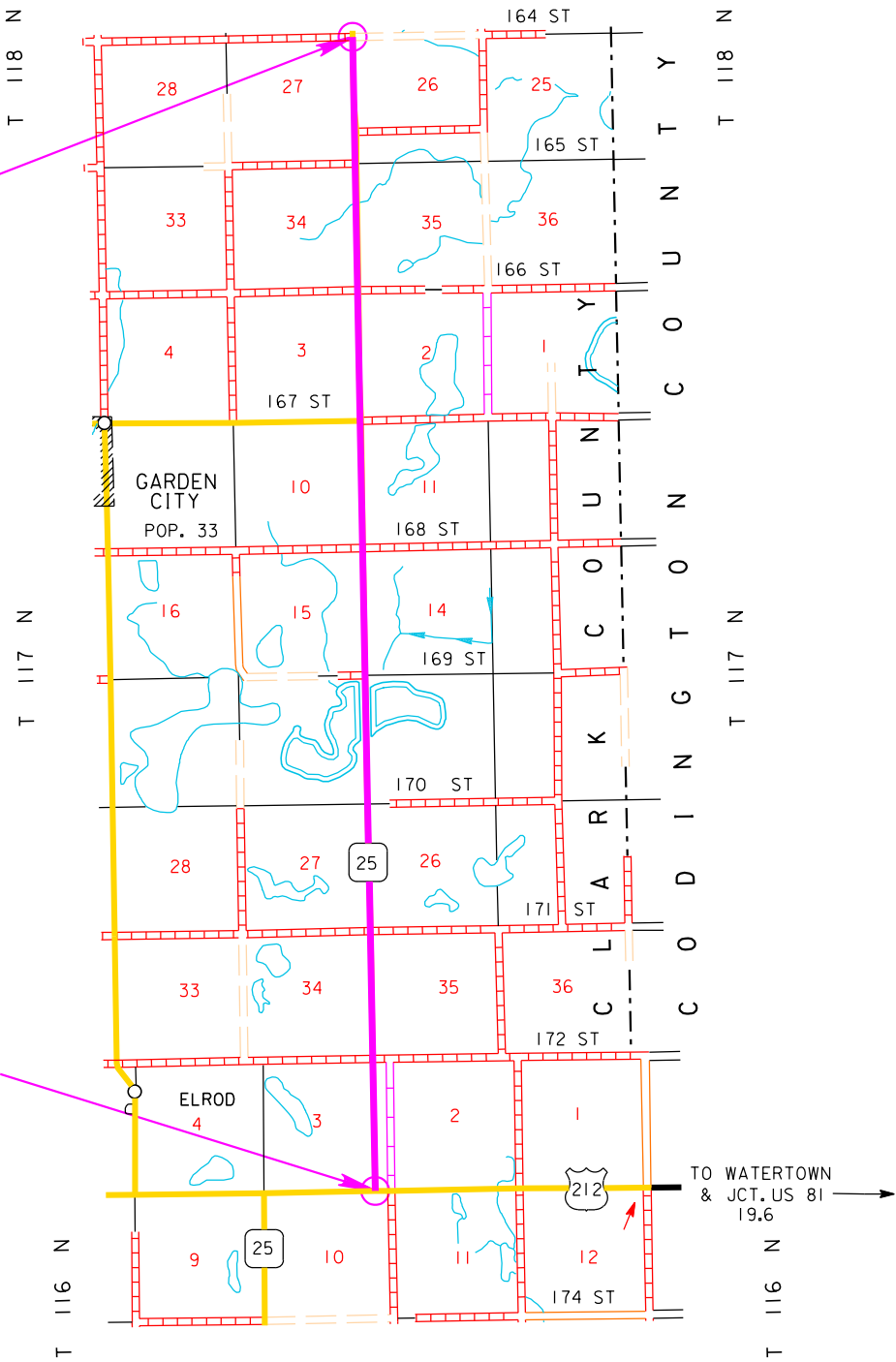
## INDEX OF SHEETS

- S1 General Layout with Index
- S2-S3 Estimate of Quantities and Notes
- S4 Delineation
- S5-S10 Permanent Sign Installation
- S11 Sign Summary
- S12-S13 Special Sign Design
- S14 Sign Installation Detail
- S15-S21 Standard Plates



END P 0025(89)149  
Station 476+13 = Station 210+92.60 on F 465(1)

BEGIN P 0025(89)149  
Station 0+86 = Station 687+52.30 on F 465(1)



PLOT SCALE - 1:200

-PLOTTED FROM - TRAB10100

PLOT NAME - 1

FILE - ... \SIGNING-STANDARD PLATES.DGN

SECTION S – ESTIMATE OF QUANTITIES – PCN 069D

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E0130	Remove Traffic Sign	85	Each
110E7150	Remove Sign for Reset	7	Each
632E1320	2.0"x2.0" Perforated Tube Post	865.0	Ft
632E1340	2.5"x2.5" Perforated Tube Post	48.0	Ft
632E2022	4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post	10	Each
632E2028	4" Tubular White Delineator with 1.12 Lb/Ft Post	16	Each
632E2510	Type 2 Object Marker Back to Back	107	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	295.2	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	178.5	SqFt
632E3500	Reset Sign	7	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.

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.

Any 911 Emergency Number signs within the project work limits will not be stockpiled but temporarily repositioned at a location outside the work limits but within the immediate proximity of the existing location. To complete the project sign work, the 911 Emergency Number signs will be permanently installed at their original locations, or as near as practicable where entrances have been reconfigured by the project. The existing supports will be reused. Cost for removing, temporarily repositioning, and permanently resetting 911 Emergency Number signs will be included in the contract unit price per each for “Remove Sign for Reset” and “Reset Sign”.

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”.

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STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S2	S21
Plotting Date: 01/07/2025			

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 overlaminate 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.

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.

PLOT SCALE - 1:200

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DIGITALLY PRINTED SIGNS (CONTINUED)

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.

DATE TAGGING SIGNS WITH PERTINENT INFORMATION

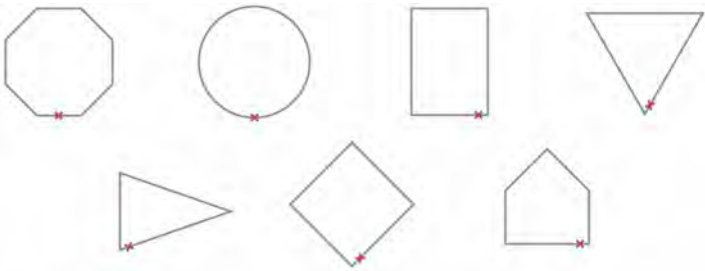
All digitally printed signs are required to be date-tagged with the following 2 components:

1. 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.
2. 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.



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", 10 Gauge perforated tube post will be sleeved with a 2-3/16" x 2-3/16" x 4', 10 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.

MILEAGE REFERENCE MARKERS

SDDOT will be notified to do Mileage Reference Markers (MRMs) locates prior to project completion by calling the Aberdeen Region Traffic at (605)626-2245. 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.

All costs for removing the concrete footings will be incidental to the various signing contract items.

NO PASSING ZONE SIGNS

SDDOT will be notified to do NO PASSING ZONE location designation prior to project completion by calling Aberdeen Region Traffic at (605)626-2245. Payment for this work will be incidental to the various signing contract items.

TYPE 2 OBJECT MARKERS

All costs associated with the removal of object markers including posts and hardware and the installation of the new back-to-back object markers will be incidental to the contract unit price per each for "type 2 object marker back-to-back".

DELINEATION

Delineation installation and spacing will be done according to Standard Plates 632.42, 632.44, and 632.46. Per the discretion of the Engineer, 10 4"x4" White Delineator Back to Back with 1.12 Lb/Ft Posts will be installed from Station 443+37 to Station 462+90. Spacing will be 217 feet and start on the Lt.

4" White Tubular Delineator Table			
Location	Quadrant	Number	Amount
US 212	NW	5	10
	NE	5	
167 <sup>th</sup> St.	NW	3	6
	SW	3	
		Total	16

Cost for removing removal of delineation will be incidental to various contract items.

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	P-PT 0025(89)149	S3	S21
Plotting Date: 01/07/2025			

PLOT NAME - 1

FILE - ... \SIGNING-STANDARD PLATES.DGN

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STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S4	S21
Plotting Date: 04/14/2025			

Object Marker Table for Pipe		
Station	Type 2 Object Marker Back-to- Back (Each)	Description
1+05	2	1 Each Side of Road
19+26	2	1 Each Side of Road
42+45	2	1 Each Side of Road
51+42	2	1 Each Side of Road
58+53	2	1 Each Side of Road
70+50	2	1 Each Side of Road
81+68	2	1 Each Side of Road
103+49	2	1 Each Side of Road
110+49	2	1 Each Side of Road
119+88	2	1 Each Side of Road
158+12	2	1 Each Side of Road
158+28	2	1 Each Side of Road
170+45	2	1 Each Side of Road
177+45	2	1 Each Side of Road
202+01	2	1 Each Side of Road
221+34	2	1 Each Side of Road
221+46	2	1 Each Side of Road
229+41	2	1 Each Side of Road
243+30	1	1 Left Side of Road
243+94	1	1 Right Side of Road
247+81	2	1 Each Side of Road
251+36	2	1 Each Side of Road
257+05	1	1 Left Side of Road
257+66	1	1 Right Side of Road
265+36	2	1 Each Side of Road
277+97	1	1 Right Side of Road
278+67	1	1 Left Side of Road
285+32	2	1 Each Side of Road
296+33	2	1 Each Side of Road
310+93	1	1 Left Side of Road
311+69	1	1 Right Side of Road

Object Marker Table for Pipe		
Station	Type 2 Object Marker Back-to- Back (Each)	Description
316+25	2	1 Each Side of Road
319+00	2	1 Each Side of Road
342+16	2	1 Each Side of Road
342+26	2	1 Each Side of Road
358+68	2	1 Each Side of Road
378+31	2	1 Each Side of Road
384+76	2	1 Each Side of Road
395+27	2	1 Each Side of Road
407+06	2	1 Each Side of Road
424+84	2	1 Each Side of Road
448+23	2	1 Each Side of Road
456+27	2	1 Each Side of Road
475+70	2	1 Each Side of Road
Total	80	

Object Marker Table for Rip Rap							
Location	Station		L/R	Distance (Ft)	Spacing (Ft)	Number	Description
	Start	End					
SD 25	147+70	160+30	Both	1260	210	7	Start on Rt. with Staggered Spacing
SD 25	186+25	212+95	Both	2870	205	15	Start on Lt. with Staggered Spacing
SD 25	317+85	319+85	Rt.	200	200	2	
Co. Rd 29 (xr317)	16+70	20+90	Both	420	210	3	Start on Lt. with Staggered Spacing
Total						27	

PLOT SCALE - 1:22

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STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S5	S21
Plotting Date: 04/14/2025			

SD 25 Permanent Sign Installation Table																	
Station	Side of Road	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 10 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks
0+62	Rt.	US Hwy 212 (Two Signs)	D3-1	54	12	9.0		12.0		1		1			N/S	Telespar	Replace Existing Sign with New Sign on New Post
		SD Hwy 25 (Two Signs)	D3-1	54	12	9.0									E/W		
0+67	Lt.	Stop	R1-1	48	48		13.3	24.0		2		1			N	Telespar	Replace Existing Sign with New Sign on New Posts
0+81	Rt.	Mile Marker 149.81 (Two Signs)	D10-6	4.5	21	1.3		8.0		1		1			N/S	Telespar	Replace Existing Sign with New Sign on New Post at MRM Location
1+22	Rt.	North	M3-1	24	12	2.0		12.0		1					S	Telespar	Place New Signs on New Post
		SD 25	M1-5	24	24	4.0											
2+22	Lt.	<-- Watertown Clark -->	D1-2	72	30	15.0			24.0		2				N	Telespar	Place New Sign on New Posts
2+61	Rt.	North	M3-1	24	12							1			S	Telespar	Remove Existing Signs
		SD 25	M1-5	24	24												
3+22	Rt.	Jct SD 20 15 Webster 32	D2-2	66	30	13.8			24.0		2				S	Telespar	Place New Sign on New Posts
4+22	Lt.	South	M3-3	24	12	2.0		12.0		1					N	Telespar	Place New Signs on New Post
		SD 25	M1-5	24	24	4.0											
		Advance Right Turn Arrow	M5-1R	21	15	2.2											
6+05	Rt.	Jct SD 20 15 Webster 32	D2-2	60	30							1			S	Telespar	Remove Existing Sign
6+10	Lt.	<-- Watertown Clark -->	D1-2	66	30							1			N	Telespar	Remove Existing Sign
6+22	Lt.	JCT	M2-1	21	15	2.2		12.0		1					N	Telespar	Place New Signs on New Post
		US 212	M1-5	30	24	5.0											
7+18	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
8+00	Lt.	Stop Ahead	W3-1	30	30		6.3	24.0		2					N	Telespar	Place New Sign on New Posts
8+00	Rt.	Stop Ahead	W3-1	30	30		6.3	24.0		2					S	Telespar	Place New Sign on New Posts
8+36	Rt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					N	Telespar	Place New Sign on New Post
9+13	Lt.	SD 25	M1-5	24	24							1			N	Telespar	Remove Existing Signs
		Advance Right Turn Arrow	M5-1R	21	15												
9+81	Rt.	Speed Limit 65	R2-1	24	30	5.0		11.0		1		1			S	Telespar	Replace Existing Sign with New Sign on New Post
10+29	Rt.	Mile Marker 150 (Two Signs)	D10-6	4.5	18	1.1		8.0		1		1			N/S	Telespar	Replace Existing Sign with New Sign on New Post at MRM Location
13+06	Lt.	JCT	M2-1	21	15							1			N	Telespar	Remove Existing Signs
		US 212	M1-5	30	24												
15+52	Lt.	Stop Ahead	W3-1	30	30							1			N	Telespar	Remove Existing Sign
15+52	Rt.	Stop Ahead	W3-1	30	30							1			S	Telespar	Remove Existing Sign
24+23	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
44+06	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign

PLOT NAME - 1

FILE - ... \PAVEMENT MARKING\DETAILS\NEW.DGN



PLOT SCALE - 1:22

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	P-PT 0025(89)149	S6	S21
Plotting Date: 04/14/2025			

SD 25 Permanent Sign Installation Table																	
Station	Side of Road	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 10 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks
53+81	Rt.	172 St (Two Signs)	D3-1	36	12							1			N/S	Telespar	Remove Existing Signs
		SD Hwy 25 (Two Signs)	D3-1	54	12									E/W			
53+85	Lt.	Stop	R1-1	30	30		5.2	11.0		1		1			W	Telespar	Replace Existing Sign with New Sign on New Post
54+24	Rt.	Stop	R1-1	30	30		5.2	11.0		1		1			E	Telespar	Replace Existing Sign with New Sign on New Post
54+31	Rt.	172 St (Two Signs)	D3-1	36	12	6.0		13.0		1					N/S	Telespar	Place New Signs on New Post
		SD Hwy 25 (Two Signs)	D3-1	54	12	9.0							E/W				
55+26	Rt.	North	M3-1	24	12	2.0		12.0		1		1			S	Telespar	Replace Existing Sign with New Sign on New Post
		SD 25	M1-5	24	24	4.0					1	1					
62+66	Rt.	Mile Marker 151 (Two Signs)	D10-6	4.5	18	1.1		8.0		1		1			N/S	Telespar	Replace Existing Sign with New Sign on New Post at MRM Location
64+11	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
80+70	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
81+80	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
82+40	Lt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					S	Telespar	Place New Sign on New Post
101+20	Rt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					N	Telespar	Place New Sign on New Post
101+75	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
106+37	Rt.	171 St (Two Signs)	D3-1	30	12							1			N/S	Telespar	Remove Existing Signs
		SD Hwy 25 (Two Signs)	D3-1	54	12								E/W				
106+45	Lt.	Stop	R1-1	30	30		5.2	11.0		1		1			W	Telespar	Replace Existing Sign with New Sign on New Post
106+92	Rt.	Stop	R1-1	30	30		5.2	11.0		1		1			E	Telespar	Replace Existing Sign with New Sign on New Post
106+99	Rt.	171 St (Two Signs)	D3-1	30	12	5.0		13.0		1		1			N/S	Telespar	Place New Signs on New Post
		SD Hwy 25 (Two Signs)	D3-1	54	12	9.0							E/W				
	Rt.	Mile Marker 152 (Two Signs)	D10-6	4.5	18	1.1		8.0		1		1			N/S	Telespar	Replace Existing Sign with New Sign on New Post at MRM Location
157+00	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
159+07	Rt.	170 St (Two Signs)	D3-1	36	12							1			N/S	Telespar	Remove Existing Signs
		SD Hwy 25 (Two Signs)	D3-1	54	12								E/W				
159+10	Rt.	No Maintenance						24.0		2			1	1	N	Telespar	Remove and Reset Existing Signs on New Posts
		NO Travel Advised							N								
159+67	Rt.	Stop	R1-1	30	30							1			E	Telespar	Remove Existing Sign
159+74	Rt.	170 St (Two Signs)	D3-1	36	12	6.0		13.0		1					N/S	Telespar	Place New Signs on New Post
		SD Hwy 25 (Two Signs)	D3-1	54	12	9.0						E/W					
168+23	Rt.	Mile Marker 153 (Two Signs)	D10-6	4.5	18	1.1		8.0		1		1			N/S	Telespar	Replace Existing Sign with New Sign on New Post at MRM Location

PLOT NAME - 1

FILE - ... \PAVEMENT MARKING DETAIL.SHW - DGN

PLOT SCALE - 1:22

PLOTTED FROM - TRAB10100

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STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S7	S21
Plotting Date: 04/14/2025			

SD 25 Permanent Sign Installation Table																	
Station	Side of Road	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 10 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks
170+31	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
174+16	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
179+18		Watch for ice on road		36	36			12.0		1			1	1	E	Telespar	Remove and Reset Existing Sign on New Post
185+80	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
211+78	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
211+81	Rt.	169 St (Two Signs)	D3-1	36	12							1			N/S	Telespar	Remove Existing Signs
		SD Hwy 25 (Two Signs)	D3-1	54	12									E/W			
211+89	Lt.	Stop	R1-1	30	30							1			W	Telespar	Remove Existing Sign
212+57	Rt.	169 St (Two Signs)	D3-1	36	12	6.0		13.0		1					N/S	Telespar	Place New Signs on New Post
		SD Hwy 25 (Two Signs)	D3-1	54	12	9.0								E/W			
213+40	Lt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					S	Telespar	Place New Sign on New Post
215+25		Watch for ice on road		36	36			12.0		1			1	1	W	Telespar	Remove and Reset Existing Sign on New Post
220+89	Rt.	Mile Marker 154 (Two Signs)	D10-6	4.5	18	1.1		8.0		1		1			N/S	Telespar	Replace Existing Sign with New Sign on New Post at MRM Location
248+20	Rt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					N	Telespar	Place New Sign on New Post
250+00	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
253+40	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
255+00	Lt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					S	Telespar	Place New Sign on New Post
264+28	Rt.	168 St (Two Signs)	D3-1	36	12							1			N/S	Telespar	Remove Existing Signs
		SD Hwy 25 (Two Signs)	D3-1	54	12									E/W			
264+33	Lt.	Stop	R1-1	36	36		7.5	11.0		1		1			W	Telespar	Replace Existing Sign with New Sign on New Post
264+84	Rt.	Stop	R1-1	30	30		5.2	11.0		1		1			E	Telespar	Replace Existing Sign with New Sign on New Post
264+91	Rt.	168 St (Two Signs)	D3-1	36	12	6.0		13.0		1					N/S	Telespar	Place New Signs on New Post
		SD Hwy 25 (Two Signs)	D3-1	54	12	9.0								E/W			
273+68	Rt.	Mile Marker 155 (Two Signs)	D10-6	4.5	18	1.1		8.0		1		1			N/S	Telespar	Replace Existing Sign with New Sign on New Post at MRM Location
282+80	Rt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					N	Telespar	Place New Sign on New Post
283+93	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
289+60	Lt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					S	Telespar	Place New Sign on New Post
290+50	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
312+84	Rt.	<-- Garden City 2	D1-1	90	18	11.3		24.0		2		1			S	Telespar	Replace Existing Sign with New Sign on New Posts
316+05	Lt.	South	M3-3	24	12			12.0		1			1	1	N	Telespar	Remove and Reset Existing Sign on New Post
		SD 25	M1-5	24	24												

PLOT NAME - 1

FILE - ... \PAVEMENT MARKING\DETAILS\NEW.DGN

PLOT SCALE - 1:22

PLOTTED FROM - TRAB10100

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S8	S21
Plotting Date: 04/14/2025			

SD 25 Permanent Sign Installation Table																	
Station	Side of Road	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 10 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks
316+96	Rt.	167 St (Two Signs)	D3-1	36	12							1			N/S	Telespar	Remove Existing Signs
		SD Hwy 25 (Two Signs)	D3-1	54	12										E/W		
317+11	Lt.	Stop	R1-1	36	36		7.5	11.0		1		1			W	Telespar	Replace Existing Sign with New Sign on New Post
317+61	Rt.	Stop	R1-1	36	36			11.0		1			1	1	E	Telespar	Remove and Reset Existing Sign on New Post
317+68	Rt.	167 St (Two Signs)	D3-1	36	12	6.0		13.0		1					N/S	Telespar	Place New Signs on New Post
		SD Hwy 25 (Two Signs)	D3-1	54	12	9.0									E/W		
318+53	Rt.	North	M3-1	24	12	2.0		12.0		1		1			S	Telespar	Replace Existing Signs with New Signs on New Post
		SD 25	M1-5	24	24	4.0											
318+57	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
319+80	Rt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					N	Telespar	Place New Sign on New Post
321+74	Lt.	Garden City 2 -->	D1-1	90	18	11.3		24.0		2		1			N	Telespar	Replace Existing Sign with New Sign on New Posts
326+30	Rt.	Mile Marker 156 (Two Signs)	D10-6	4.5	18	1.1		8.0		1		1			N/S	Telespar	Replace Existing Sign with New Sign on New Post at MRM Location
326+95	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
344+07	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
344+77	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
359+80	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
361+95	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
370+64	Rt.	166 St (Two Signs)	D3-1	36	12							1			N/S	Telespar	Remove Existing Signs
		SD Hwy 25 (Two Signs)	D3-1	54	12										E/W		
370+72	Lt.	Stop	R1-1	30	30		5.2	11.0		1		1			W	Telespar	Replace Existing Sign with New Sign on New Post
371+16	Rt.	Stop	R1-1	30	30		5.2	11.0		1		1			E	Telespar	Replace Existing Sign with New Sign on New Post
371+26	Rt.	166 St (Two Signs)	D3-1	36	12	6.0		13.0		1					N/S	Telespar	Place New Signs on New Post
		SD Hwy 25 (Two Signs)	D3-1	54	12	9.0									E/W		
379+06	Rt.	Mile Marker 157 (Two Signs)	D10-6	4.5	18	1.1		8.0		1		1			N/S	Telespar	Replace Existing Sign with New Sign on New Post at MRM Location
380+11	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
390+26	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
405+54	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
406+00	Lt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					S	Telespar	Place New Sign on New Post
407+01	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
422+56	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
423+36	Lt.	Stop	R1-1	30	30		5.2	11.0		1		1			W	Telespar	Replace Existing Sign with New Sign on New Post

PLOT NAME - 1

FILE - ... \PAVEMENT MARKING\DETAILS\NEW.DGN



PLOT SCALE - 1:22

PLOTTED FROM - TRAB10100

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S9	S21
Plotting Date: 04/14/2025			

SD 25 Permanent Sign Installation Table																	
Station	Side of Road	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 10 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks
423+41	Rt.	165 St (Two Signs)	D3-1	36	12							1			N/S	Telespar	Remove Existing Signs
		SD Hwy 25 (Two Signs)	D3-1	54	12									E/W			
423+95	Rt.	165 St (Two Signs)	D3-1	36	12	6.0		13.0		1					N/S	Telespar	Place New Signs on New Post
		SD Hwy 25 (Two Signs)	D3-1	54	12	9.0								E/W			
424+00	Rt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					N	Telespar	Place New Sign on New Post
424+97	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
432+04	Rt.	Mile Marker 158 (Two Signs)	D10-6	4.5	18	1.1		8.0		1		1			N/S	Telespar	Replace Existing Sign with New Sign on New Post at MRM Location
435+93	Rt.	164A St (Two Signs)	D3-1									1			N/S	Telespar	Remove Existing Signs
		SD Hwy 25 (Two Signs)	D3-1	54	12									E/W			
436+60	Rt.	Stop	R1-1	30	30		5.2	11.0		1		1			E	Telespar	Replace Existing Sign with New Sign on New Post
436+67	Rt.	164A St (Two Signs)	D3-1	42	12	7.0		13.0		1					N/S	Telespar	Place New Signs on New Post
		SD Hwy 25 (Two Signs)	D3-1	54	12	9.0								E/W			
438+75	Rt.	No Passing Zone	W14-3	48X48X36								1			N	Telespar	Remove Existing Sign
461+60	Lt.	No Passing Zone	W14-3	48X48X36			5.6	12.0		1					S	Telespar	Place New Sign on New Post
462+26	Lt.	No Passing Zone	W14-3	48X48X36								1			S	Telespar	Remove Existing Sign
475+96	Rt.	164 St (Two Signs)	D3-1	36	12							1			N/S	Telespar	Remove Existing Signs
		SD Hwy 25 (Two Signs)	D3-1	54	12									E/W			
475+99	Lt.	Stop	R1-1	36	36			11.0		1			1	1	W	Telespar	Remove and Reset Existing Sign on New Post
476+50	Rt.	164 St (Two Signs)	D3-1	36	12	6.0		13.0		1					N/S	Telespar	Place New Signs on New Post
		SD Hwy 25 (Two Signs)	D3-1	54	12	9.0								E/W			
					TOTAL	269.2	154.9	760.0	48.0	67	4	78	7	7			

PLOT NAME - 1

FILE - ... \PAVEMENT MARKING\DETAILS\NEW.DGN

PLOT SCALE - 1:22

PLOTTED FROM - TRAB10100

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S10	S21
Plotting Date: 04/14/2025			

County Road 29 (xr317) Permanent Sign Installation Table															
Station	Side of Road	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 10 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Traffic Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks
10+20	Rt.	Stop Ahead	W3-1	36	36							1	W	Telespar	Remove Existing Sign
11+05	Rt.	Stop Ahead	W3-1	36	36		9.0	12.0		1			W	Telespar	Place New Sign on New Post
11+93	Lt.	Speed Limit 55	R2-1	24	30	5.0		11.0		1		1	E	Telespar	Replace Existing Signs with New Signs on New Post
		Speed Limit TRUCKS 45	R2-2P	24	24	4.0									
14+74	Rt.	No Passing Zone	W14-3	48X48X36			5.6	24.0		2		1	E	Telespar	Replace Existing Sign with New Sign on New Post
14+65	Lt.	Clark 29 County	M1-6	24	24	4.0		12.0		1		1	E	Telespar	Replace Existing Sign with New Sign on New Post
17+30	Rt.	Clark 29 County	M1-6	24	24	4.0		12.0		1		1	W	Telespar	Replace Existing Sign with New Sign on New Post
19+93	Rt.	Speed Limit 55	R2-1	24	30	5.0		11.0		1		1	W	Telespar	Replace Existing Signs with New Signs on New Post
		Speed Limit TRUCKS 45	R2-2P	24	24	4.0		11.0		1					
21+45	Lt.	Stop Ahead	W3-1	36	36		9.0	12.0		1			E	Telespar	Place New Sign on New Post
TOTAL						26.0	23.6	105.0	0.0	9.0	0.0	7.0			

PLOT NAME - 1

FILE - ... \PAVEMENT MARKINGDETAILS\NEW.DGN

PLOT SCALE - 1:22

PLOTTED FROM - TRAB10100

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S11	S21
Plotting Date: 04/14/2025			

Sign Summary SD 25 and County Road 29								
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
D1-1	Garden City 2 -->	90	18	11.3	1	11.3		White on Green
D1-1	<-- Garden City 2	90	18	11.3	1	11.3		White on Green
D1-2	<-- Watertown Clark -->	72	30	15.0	1	15.0		White on Green
D2-2	Jct SD20 15 Webster 32	66	30	13.8	1	13.8		White on Green
D3-1	Street Signs SD Hwy 25 (Two Signs for Each)	54	12	4.5	22	99.0		White on Green
D3-1	Street Signs US Hwy 212 (Two Signs for Each)	54	12	4.5	2	9.0		White on Green
D3-1	Street Signs 164 St - 170 St, 172 St (Two Signs for Each)	36	12	3.0	16	48.0		White on Green
D3-1	Street Sign 171 St	30	12	2.5	2	5.0		White on Green
D3-1	Street Sign 164A St	42	12	3.5	2	7.0		White on Green
D10-6	Mile Markers 150 - 158 (Two Signs for Each)	4.5	18	0.56	18	10.1		White on Green
D10-6	Mile Markers 149.81 (Two Signs for Each)	4.5	21	0.66	2	1.3		White on Green
M1-5	US 212	30	24	5.0	1	5.0		See Standard Plate 632.20
M1-5	SD 25	24	24	4.0	4	16.0		See Standard Plate 632.20
M1-6	Clark 29 County	24	24	4.0	2	8.0		Yellow on Blue
M2-1	Junction Marker	21	15	2.2	1	2.2		Black on White/Black Border
M3-1	North	24	12	2.0	3	6.0		Black on White/Green Border
M3-3	South	24	12	2.0	1	2.0		Black on White/Green Border
M5-1R	Advanced Right Turn Arrow	21	15	2.2	1	2.2		Black on White/Green Border
R1-1	Stop	30	30	5.2	9		46.8	White on Red
R1-1	Stop	36	36	7.5	2		15.0	White on Red
R1-1	Stop	48	48	13.3	1		13.3	White on Red
R2-1	Speed Limit 65	24	30	5.0	1	5.0		Black on White
R2-1	Speed Limit 55	24	30	5.0	2	10.0		Black on White
R2-2P	Speed Limit TRUCKS 45	24	24	4.0	2	8.0		Black on White
W3-1	Stop Ahead	30	30	6.3	2		12.6	Black on Fluorescent Yellow
W3-1	Stop Ahead	36	36	9.0	2		18.0	Black on Fluorescent Yellow
W14-3	No Passing Zone	48X48X36		5.6	13		72.8	Black on Fluorescent Yellow
					Totals	295.2	178.5	

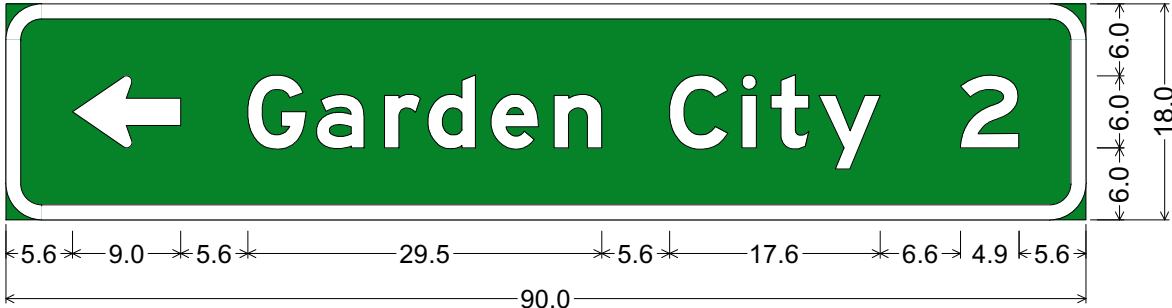
PLOT NAME - 1

FILE - ... \PAVEMENT MARKING DETAILS\NEW.DGN

FOR BIDDING PURPOSES ONLY

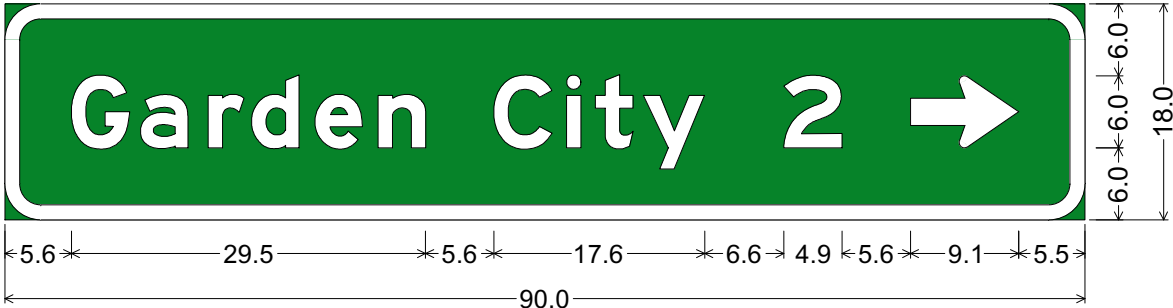
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S12	S21
Plotting Date: 04/14/2025			

SPECIAL SIGN LAYOUT



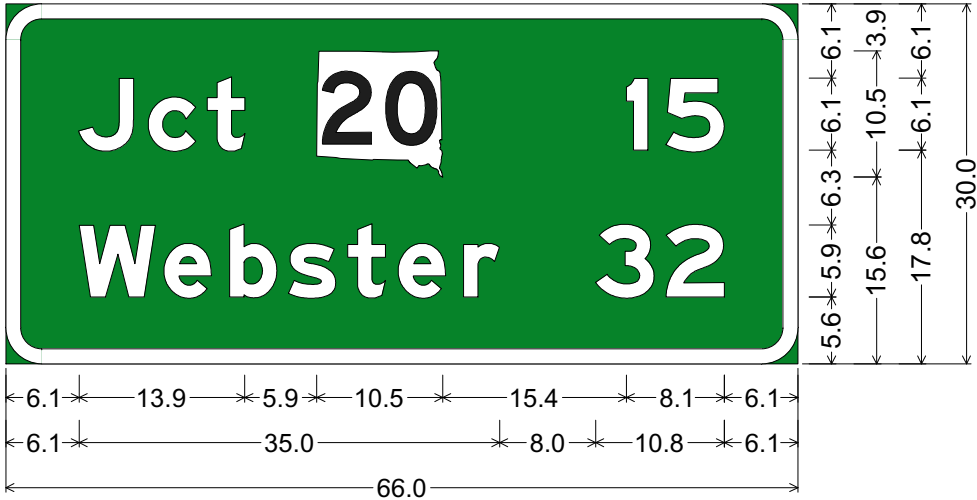
3.0" Radius, 1.3" Border, White on Green;  
Standard Arrow Custom 9.0" X 6.0" 180°; "Garden City", E Mod 2K 70% spacing;  
"2", E Mod 2K;  
Table of letter and object lefts

←	G	a	r	d	e	n	C	i	t	y	2
5.6	20.1	25.9	31.5	35.1	40.5	45.8	55.4	61.4	63.8	67.8	79.6



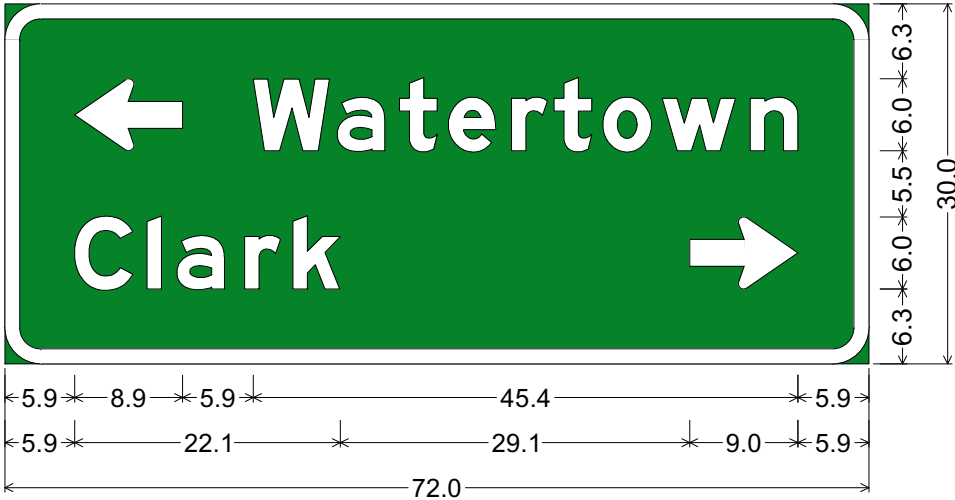
3.0" Radius, 1.3" Border, White on Green;  
"Garden City", E Mod 2K 70% spacing; "2", E Mod 2K 70% spacing;  
Standard Arrow Custom 9.0" X 6.0" 0°;  
Table of letter and object lefts

G	a	r	d	e	n	C	i	t	y	2	→
5.6	11.3	17.0	20.6	25.9	31.1	40.8	46.8	49.3	53.3	64.9	75.5



3.0" Radius, 1.3" Border, White on Green;  
"Jct", E Mod 2K 80% spacing; "15", E Mod 2K;  
"Webster", E Mod 2K 80% spacing;  
"32", E Mod 2K 80% spacing;  
Table of letter and object lefts

<b>J</b>	<b>c</b>	<b>t</b>	<b>20</b>	<b>1</b>	<b>5</b>			
6.1	11.9	16.8	25.9	51.8	55.0			
<b>W</b>	<b>e</b>	<b>b</b>	<b>s</b>	<b>t</b>	<b>e</b>	<b>r</b>	<b>3</b>	<b>2</b>
6.1	13.3	18.6	23.6	28.5	32.8	38.1	49.1	55.0



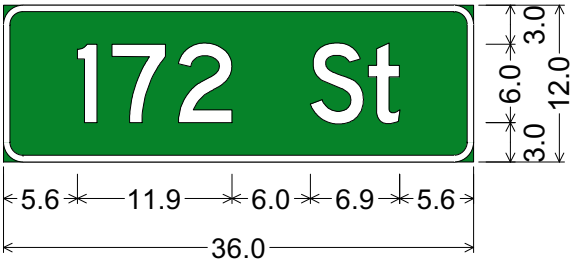
3.0" Radius, 1.3" Border, White on Green;  
Standard Arrow Custom 9.0" X 6.0" 180°;  
"Watertown", E Mod 2K 70% spacing;  
"Clark", E Mod 2K 70% spacing;  
Standard Arrow Custom 9.0" X 6.0" 0°;  
Table of letter and object lefts

←	W	a	t	e	r	t	o	w	n
5.9	20.8	27.8	32.9	37.0	42.3	45.8	49.9	54.8	62.1
C	l	a	r	k	→				
5.9	11.9	14.4	20.0	24.0	57.1				

FOR BIDDING PURPOSES ONLY

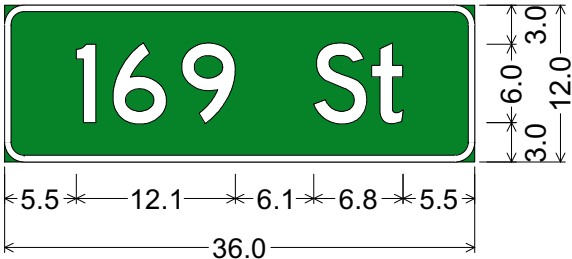
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S13	S21
Plotting Date: 04/14/2025			

SPECIAL SIGN LAYOUT



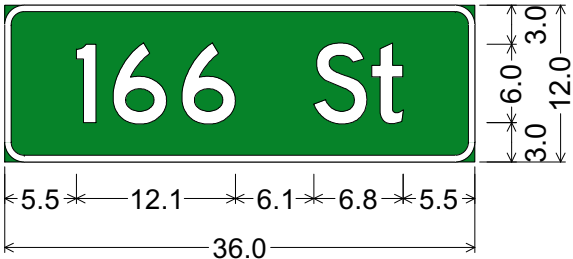
1.5" Radius, 0.5" Border, White on Green;  
"172 St", D 2K;  
Table of letter and object lefts

l	7	2	s	t
5.6	8.3	13.4	23.5	27.9



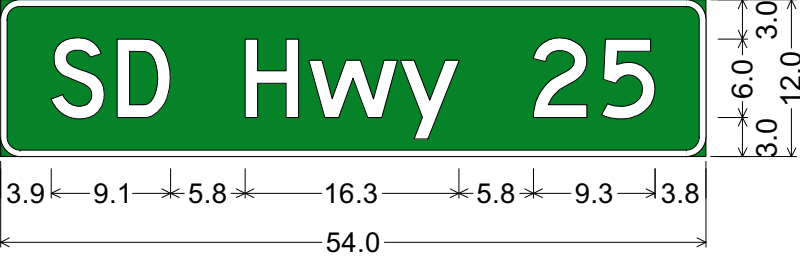
1.5" Radius, 0.5" Border, White on Green;  
"169 St", D 2K;  
Table of letter and object lefts

l	6	9	s	t
5.5	8.3	13.6	23.6	28.1



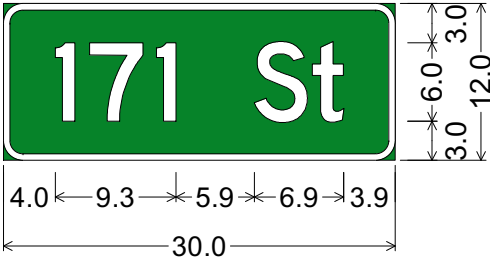
1.5" Radius, 0.5" Border, White on Green;  
"166 St", D 2K;  
Table of letter and object lefts

l	6	6	s	t
5.5	8.3	13.6	23.6	28.1



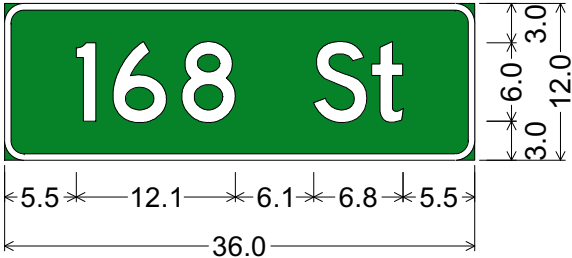
1.5" Radius, 0.5" Border, White on Green;  
"SD Hwy 25", D 2K 95% spacing;  
Table of letter and object lefts

s	d	h	w	y	2	5
3.9	9.0	18.8	23.6	30.6	40.8	46.0



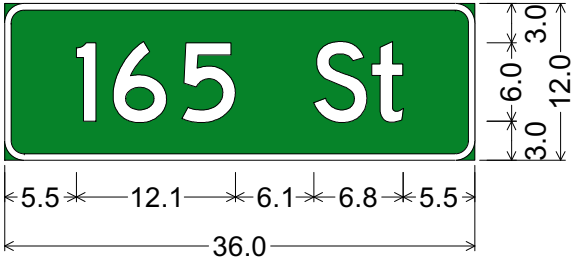
1.5" Radius, 0.5" Border, White on Green;  
"171 St", D 2K;  
Table of letter and object lefts

l	7	l	s	t
4.0	6.6	11.8	19.3	23.6



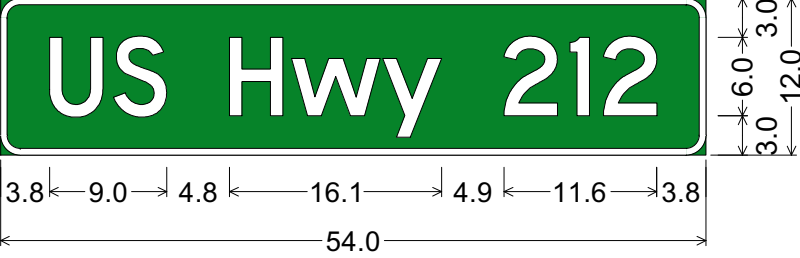
1.5" Radius, 0.5" Border, White on Green;  
"168 St", D 2K;  
Table of letter and object lefts

l	6	8	s	t
5.5	8.3	13.6	23.6	28.1



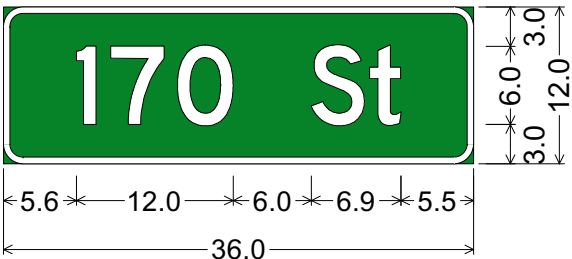
1.5" Radius, 0.5" Border, White on Green;  
"165 St", D 2K;  
Table of letter and object lefts

l	6	5	s	t
5.5	8.3	13.6	23.6	28.1



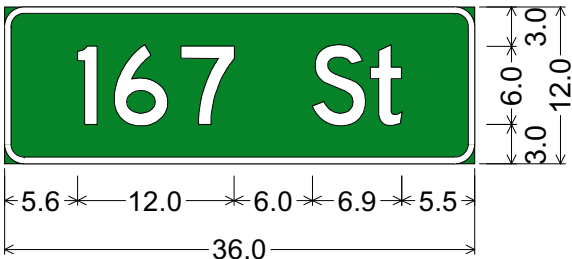
1.5" Radius, 0.5" Border, White on Green;  
"US Hwy 212", D 2K 80% spacing;  
Table of letter and object lefts

u	s	h	w	y	2	1	2
3.8	8.6	17.5	22.3	29.3	38.5	43.6	46.1



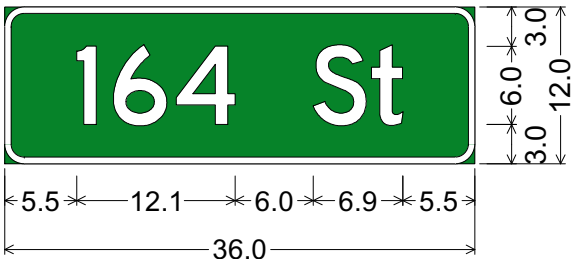
1.5" Radius, 0.5" Border, White on Green;  
"170 St", D 2K;  
Table of letter and object lefts

l	7	0	s	t
5.6	8.3	13.4	23.6	28.0



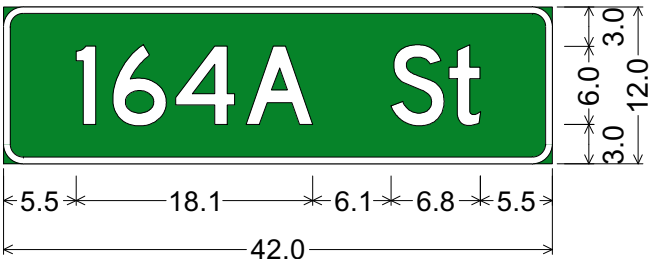
1.5" Radius, 0.5" Border, White on Green;  
"167 St", D 2K;  
Table of letter and object lefts

l	6	7	s	t
5.6	8.4	13.5	23.6	28.0



1.5" Radius, 0.5" Border, White on Green;  
"164 St", D 2K;  
Table of letter and object lefts

l	6	4	s	t
5.5	8.4	13.1	23.6	28.1



1.5" Radius, 0.5" Border, White on Green;  
"164A St", D 2K;  
Table of letter and object lefts

l	6	4	a	s	t
5.5	8.4	13.1	18.6	29.6	34.1



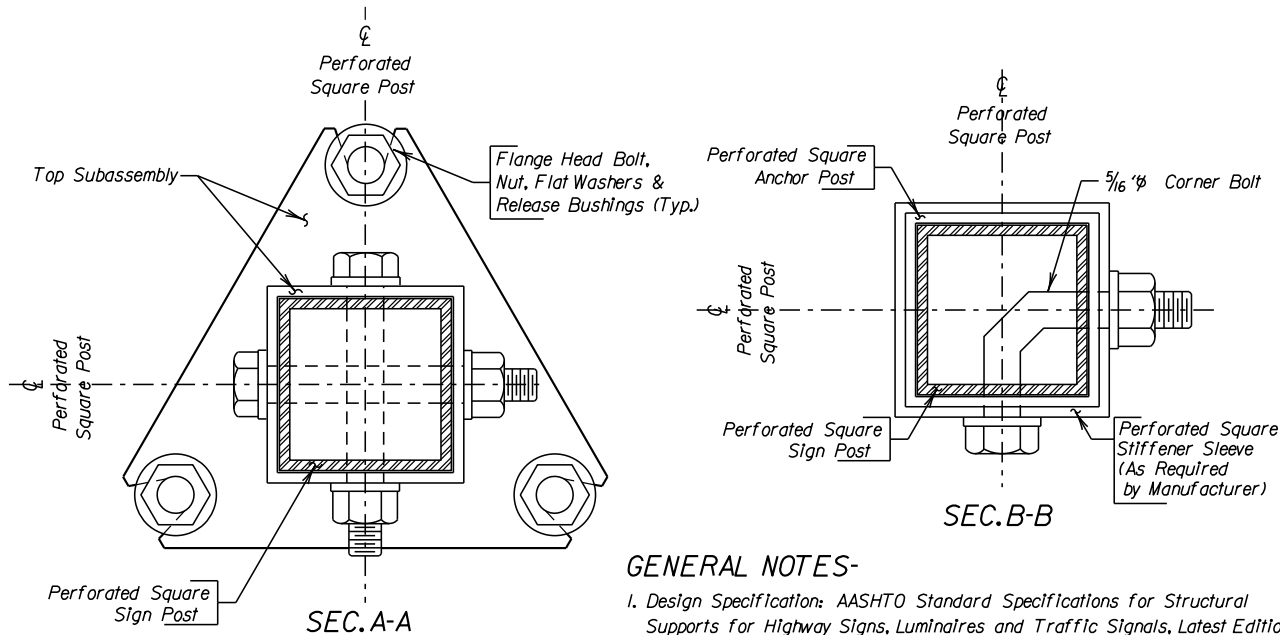
PLOT SCALE - 1:200

-PLOTTED FROM - TRAB10100

BREAKAWAY SIGN SUPPORTS

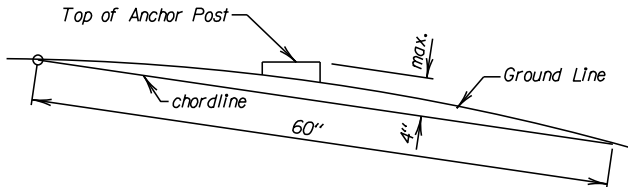
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S14	S21
Plotting Date: 09/18/2024			



GENERAL NOTES-

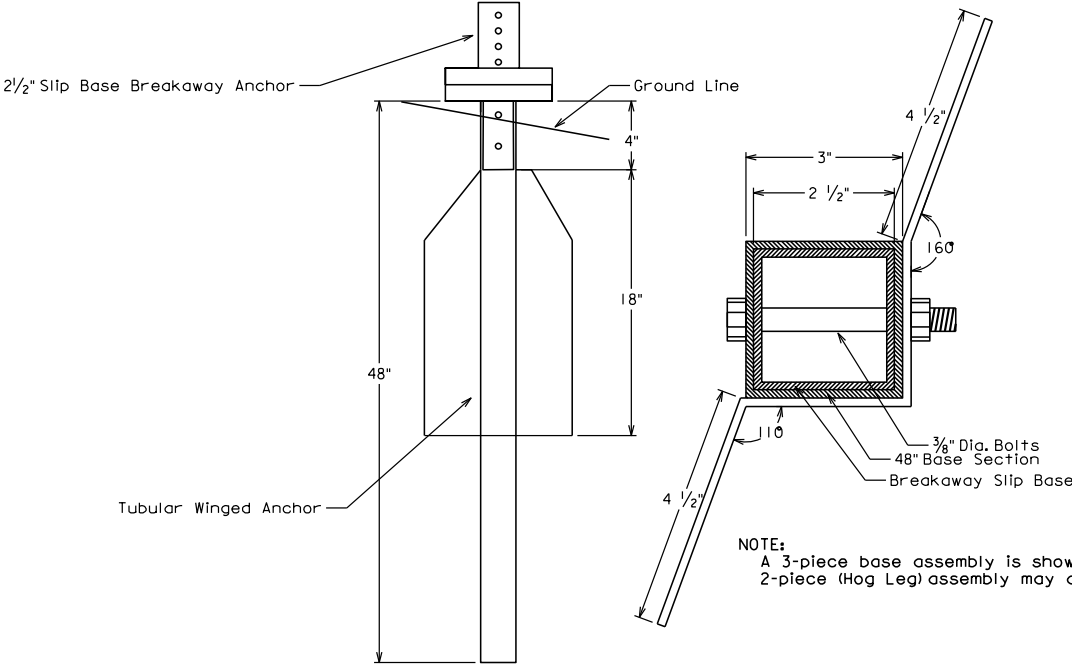
1. Design Specification: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, Latest Edition.
2. The manufacturer will provide certification that the posts and hardware furnished have essentially the same chemistry, mechanical properties and geometry as that used in the FHWA tests, and that it will meet the FHWA change in velocity requirements.
3. The manufacturer will also provide certification that the breakaway system furnished will develop the full shear and bending yield strength of the sign post section being spliced.
4. All posts will be galvanized in accordance with ASTM A653, Des. G-90.
5. All hardware will be galvanized in accordance with ASTM A153.



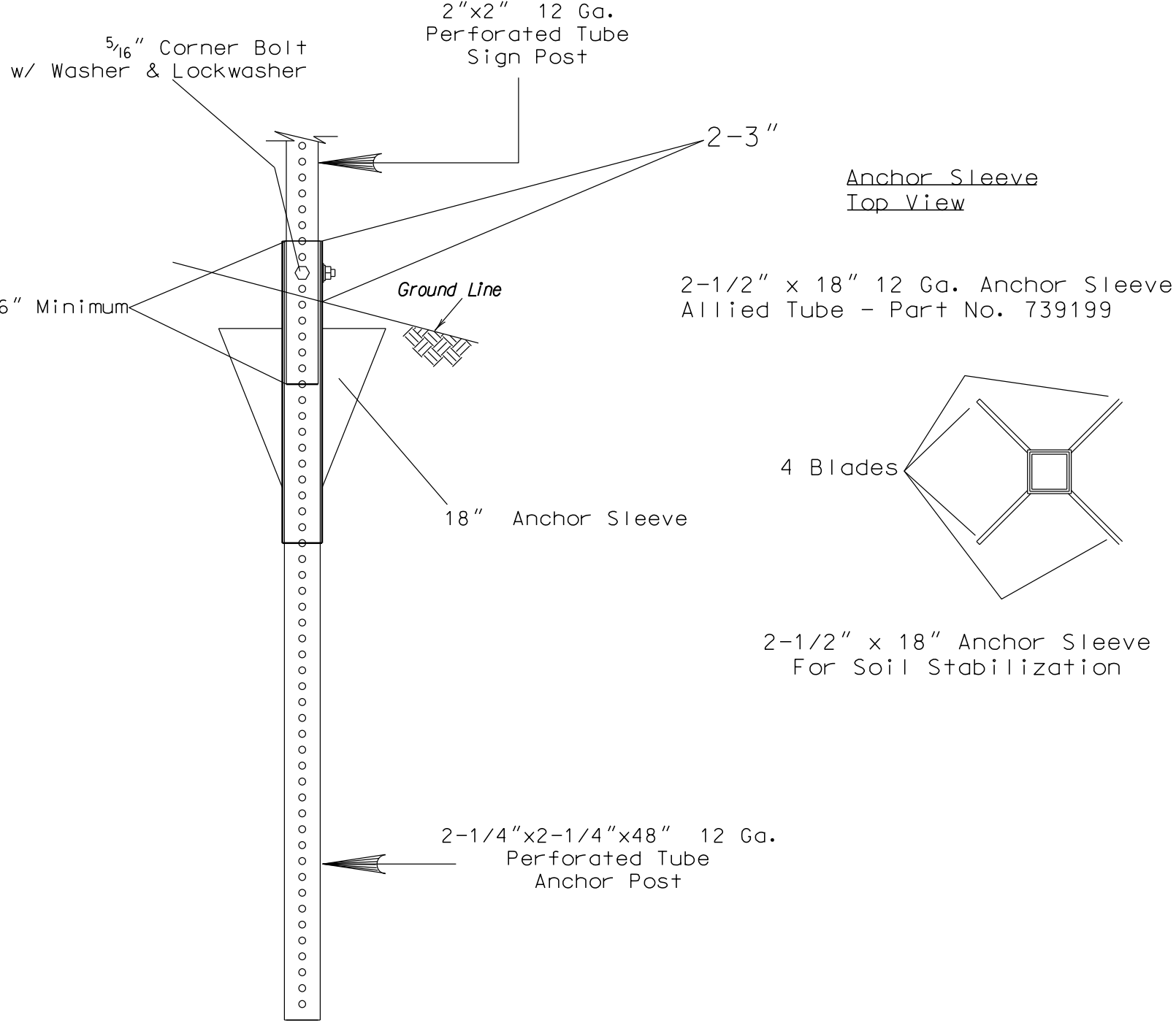
BREAKAWAY SUPPORT STUB CLEARANCE DIAGRAM

NOTE: The top of anchor post will NOT extend more than 4" max. above the chordline within a 60" chord.

SIGN BASE DETAILS FOR A 2 1/2" SIGN POST

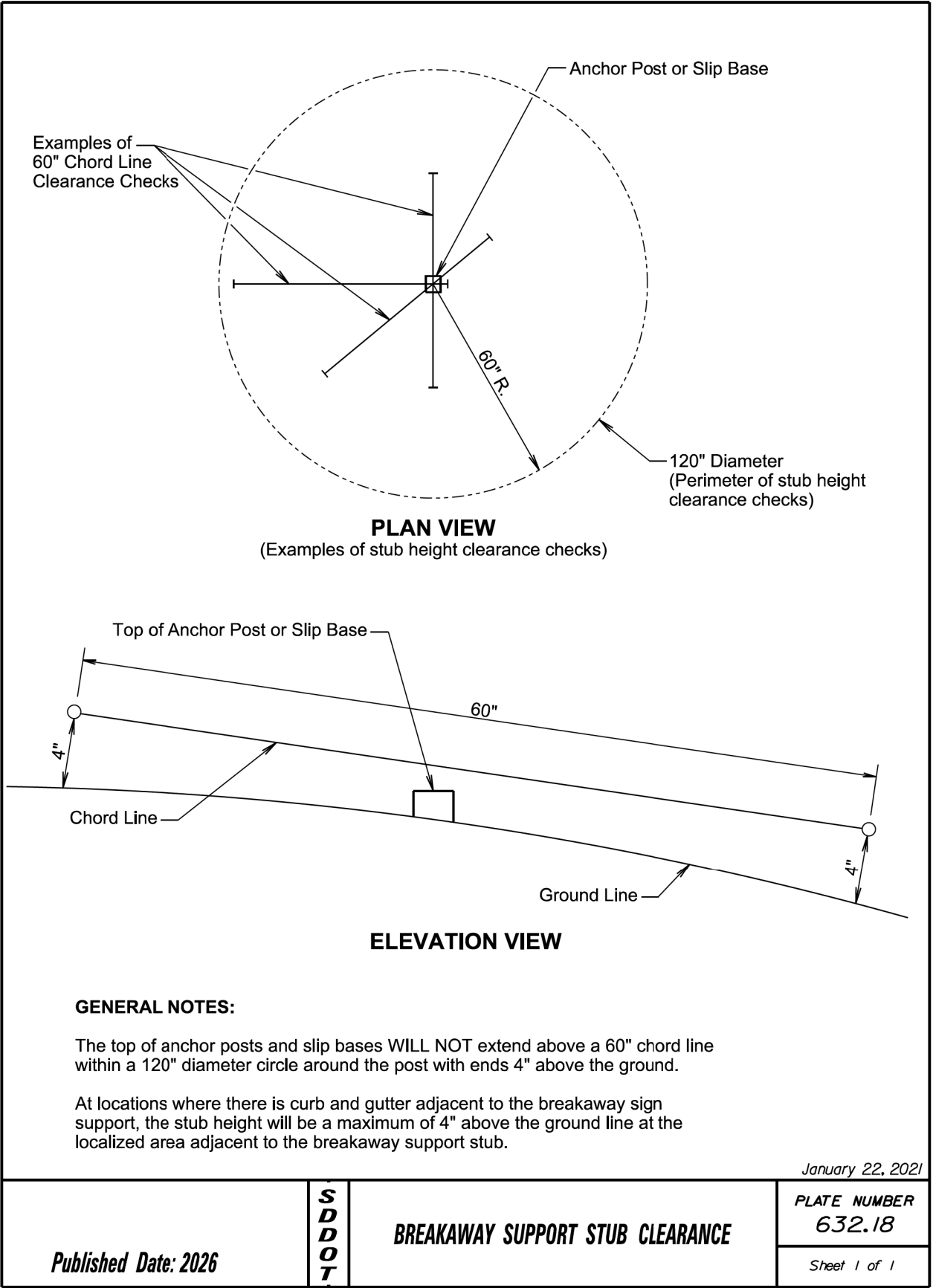
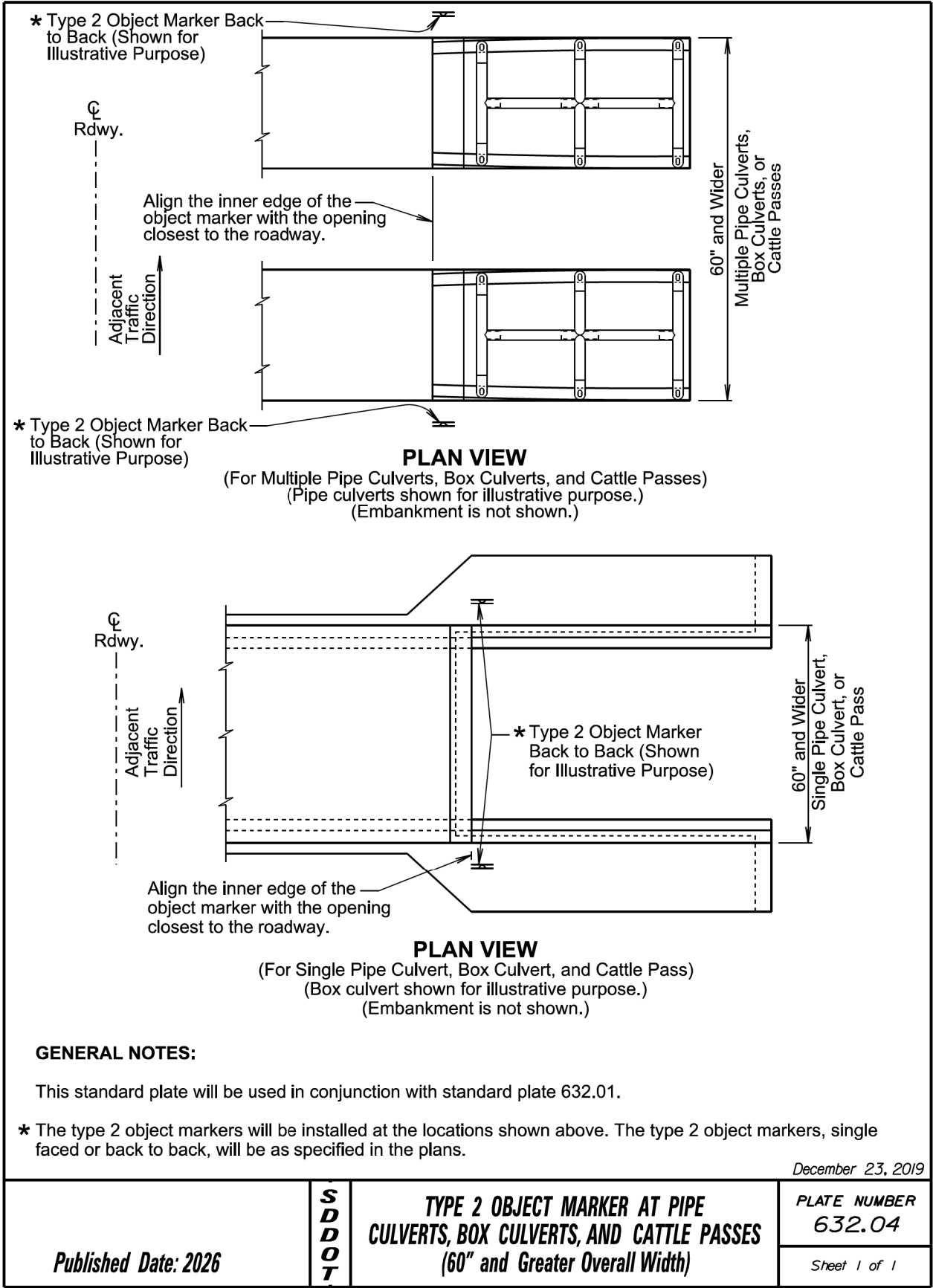


SIGN BASE DETAILS FOR A 2" SIGN POST



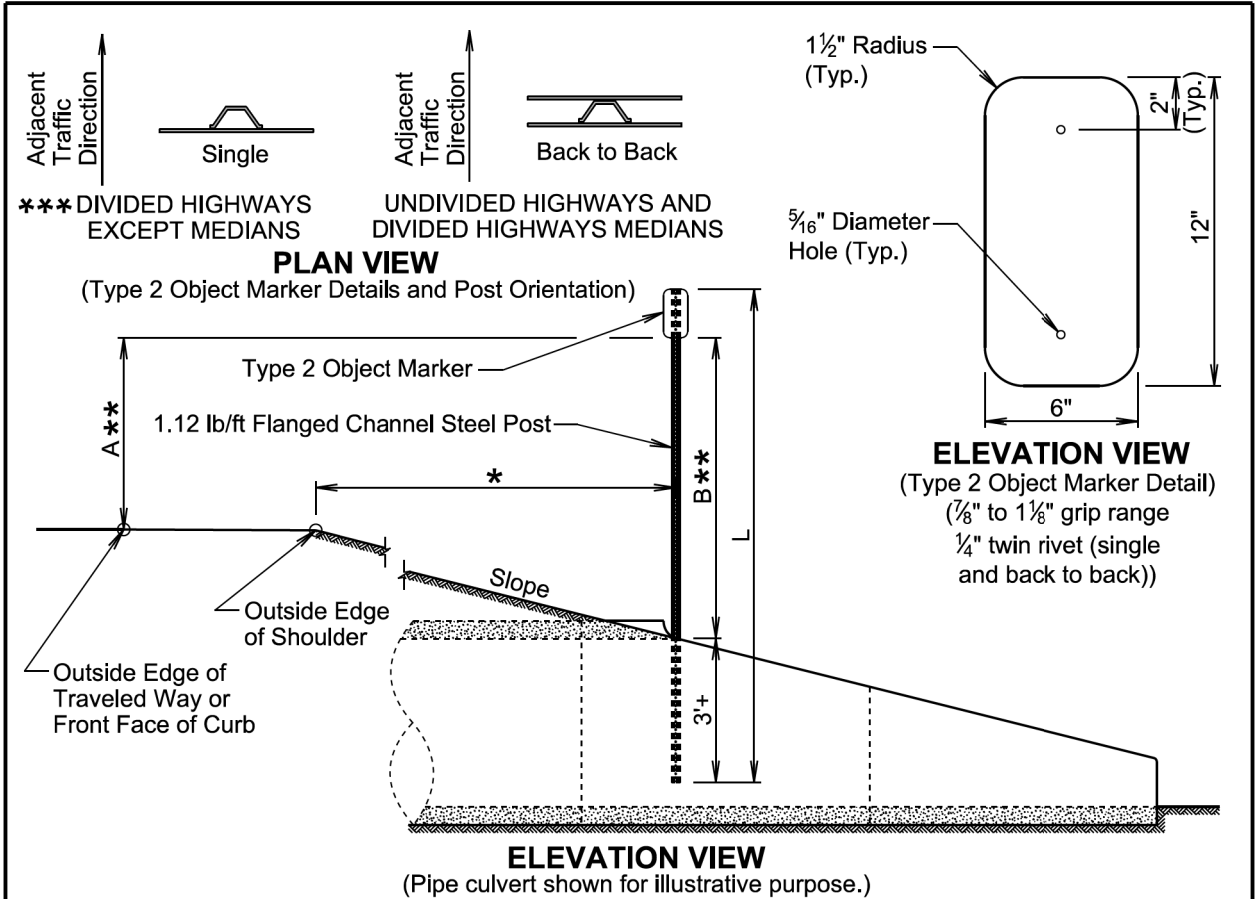
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S15	S21
Plotting Date: 06/30/2025			



FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S16	S21
Plotting Date: 06/30/2025			



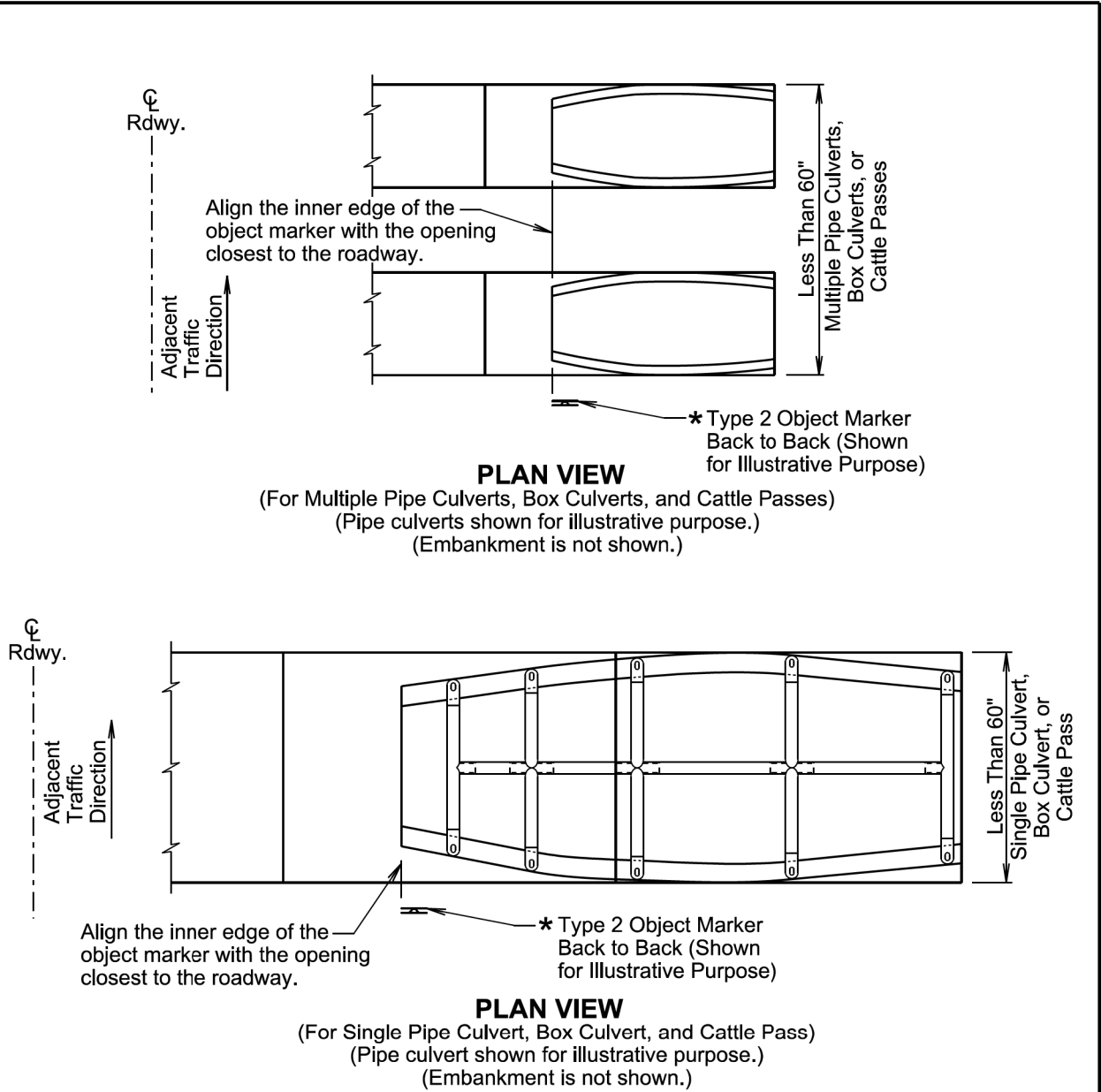
TYPE 2 OBJECT MARKER POST LENGTHS									
OFFSET (*)	1'	2'	3'	4'	5'	6'	7'	8'	Greater Than 8'
SLOPE	POST LENGTH (L)								
	3:1	8'-6"	8'-9"	9'-3"	9'-6"	9'-9"	10'-3"	10'-6"	10'-9"
	4:1	8'-6"	8'-9"	9'-0"	9'-3"	9'-9"	9'-9"	10'-0"	10'-3"
	5:1	8'-3"	8'-6"	8'-9"	9'-0"	9'-3"	9'-3"	9'-6"	9'-9"
	6:1	8'-3"	8'-6"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

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: 2026	S D D O T	TYPE 2 OBJECT MARKER (DIRECT DRIVE)	PLATE NUMBER 632.01
			Sheet 1 of 1



GENERAL NOTES:

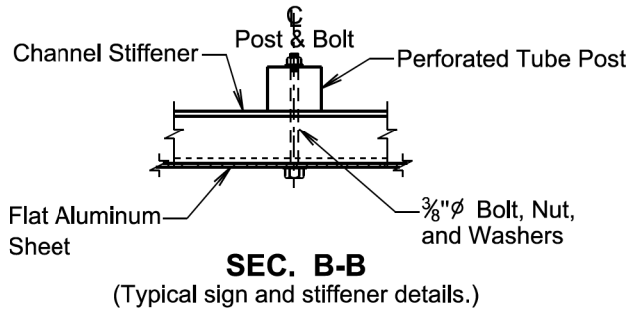
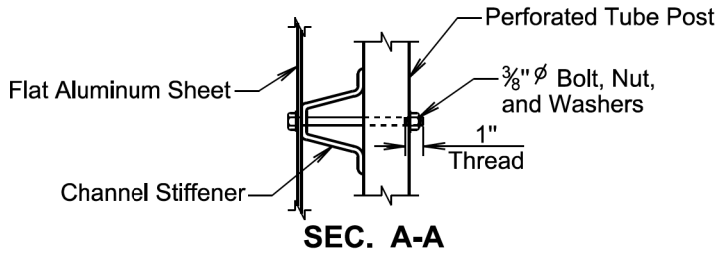
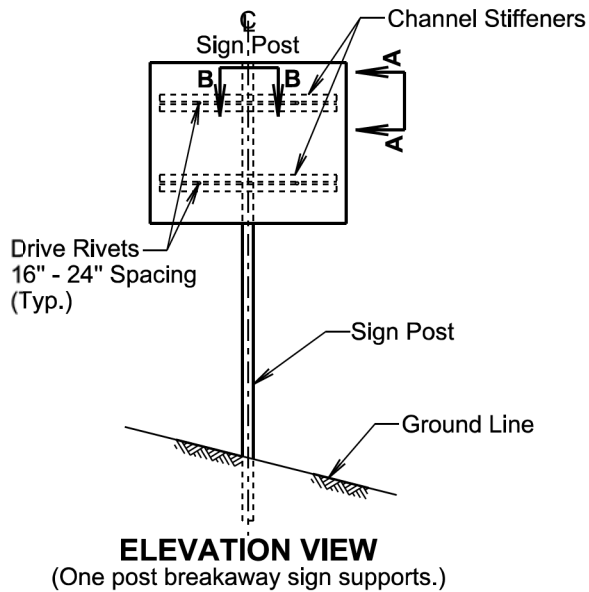
- This standard plate will be used in conjunction with standard plate 632.01.
- \* The type 2 object markers will be installed at the locations shown above. The type 2 object markers, single faced or back to back, will be as specified in the plans.

December 23, 2019

Published Date: 2026	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

FOR BIDDING PURPOSES ONLY

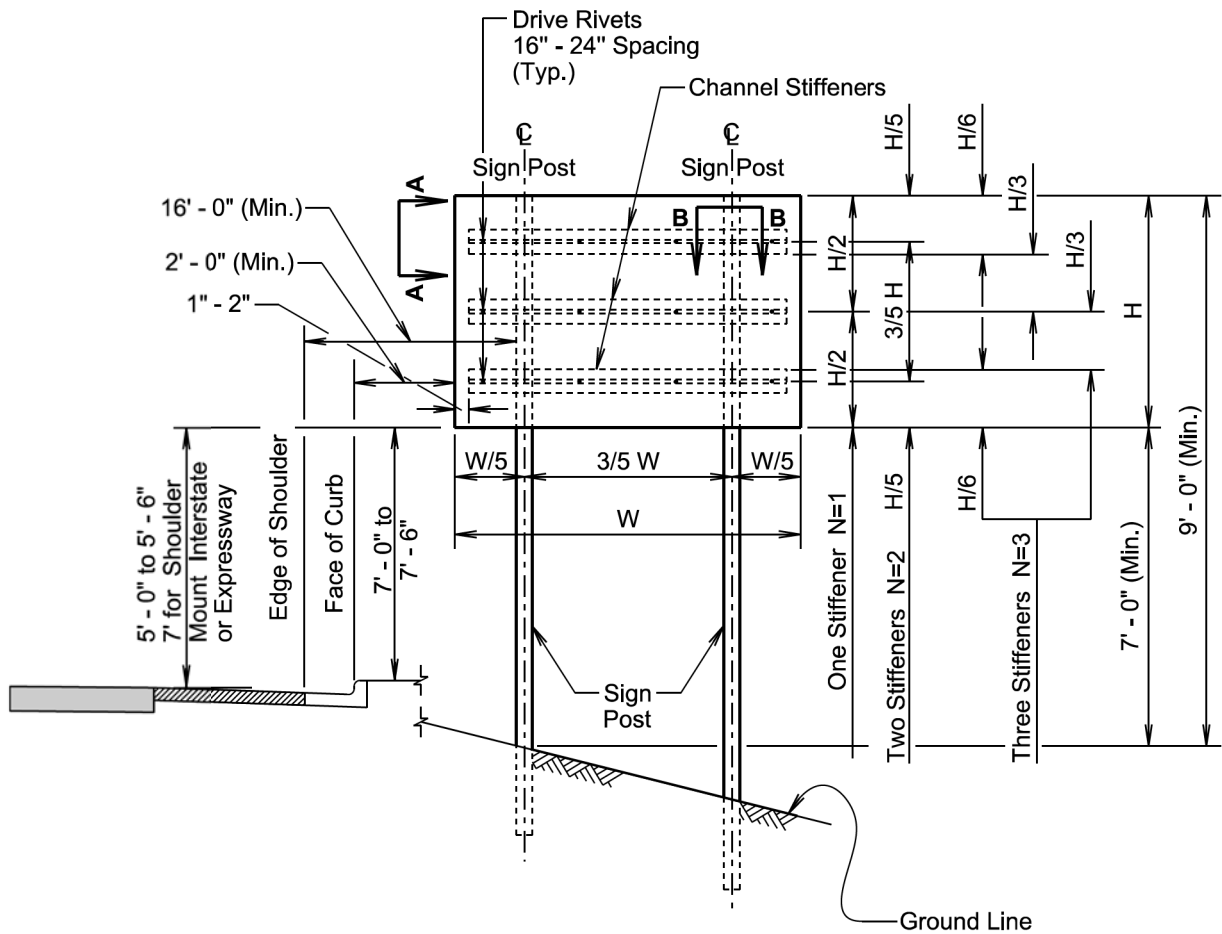
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S17	S21
Plotting Date: 06/30/2025			



Ø 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: 2026	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.

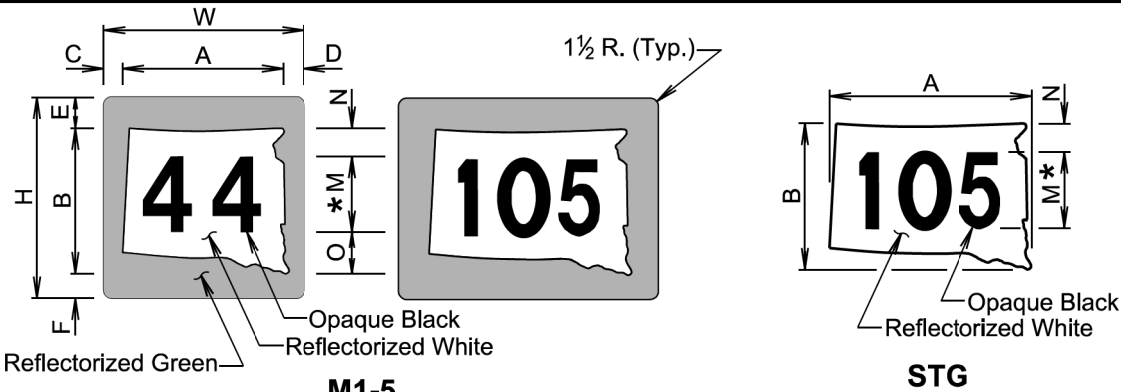
A minimum of two bolts will be required to fasten the sign to each post.

November 19, 2020

Published Date: 2026	S D D O T	SIGN STIFFENER DETAILS	PLATE NUMBER 632.60
			Sheet 2 of 2

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S18	S21
Plotting Date: 06/30/2025			

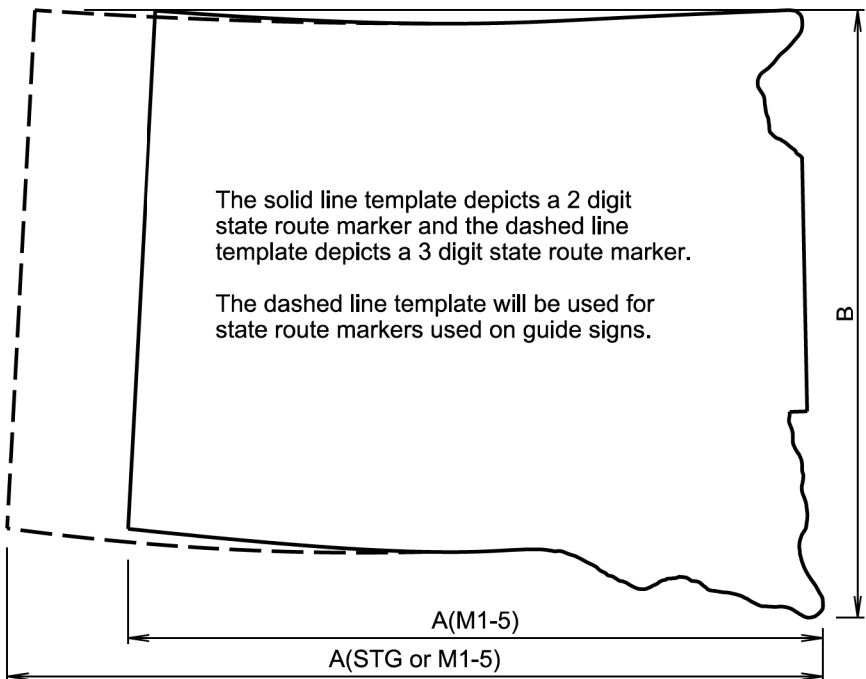


SIGN CODE	WxH	A	B	C	D	E	F	M*	N	O
M1-5	24x24	20½	18	2	1½	3½	2½	12D	2	4
M1-5 **	30x24	24	18	2¼	1¾	3½	2½	12D	2	4
M1-5	30x30	25⅝	22½	2½	1⅞	4⅜	3⅜	15D	2½	5
M1-5	36x36	30¾	27	3	2¼	5¼	3¾	18D	3	6

SIGN CODE	AxB	M*	N
STG-24	24x18	10D	4
STG-32	32x24	12D	4¾
STG-48	48x36	18D	7
STG-64	64x48	24D	9½

\* 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

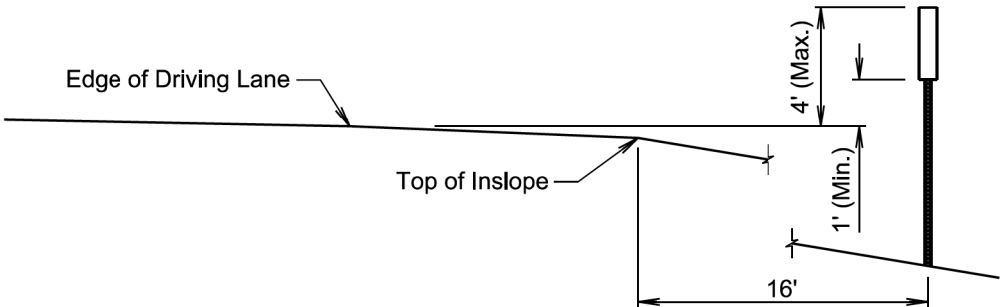
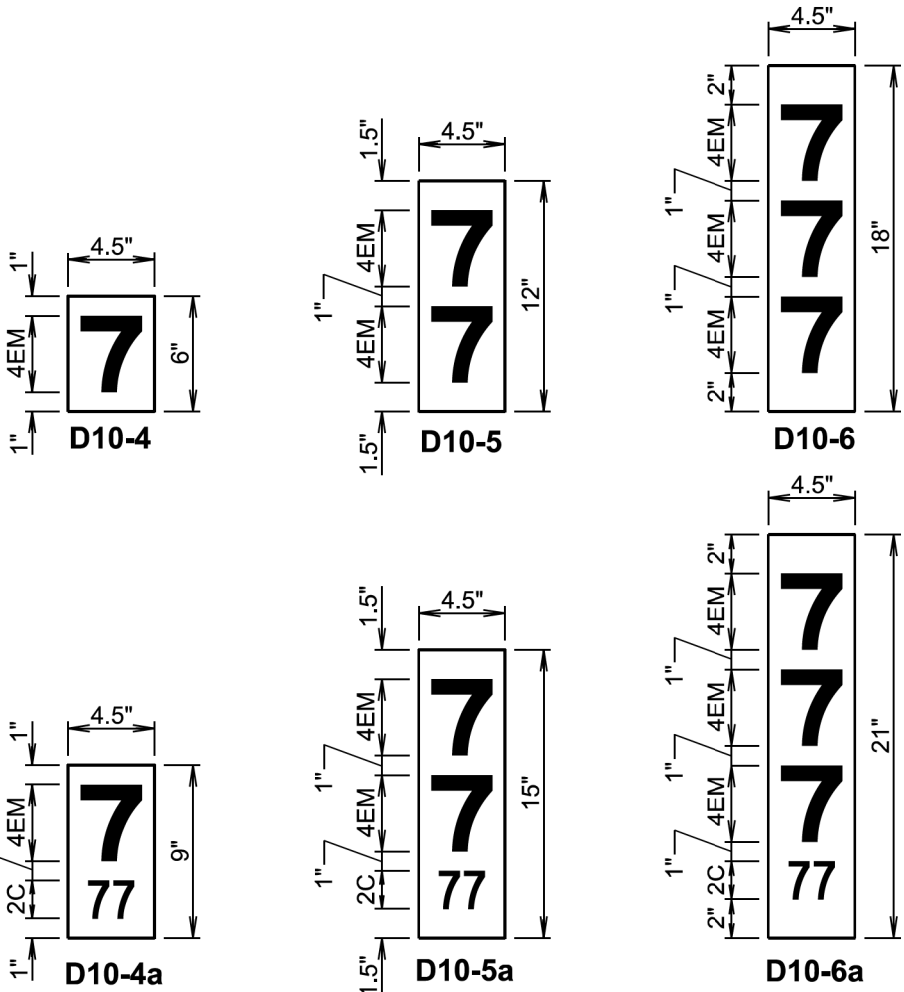
GENERAL NOTES:

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: 2026	S D D O T	STATE ROUTE MARKERS	PLATE NUMBER 632.20
			Sheet 1 of 1



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.

ELEVATION VIEW

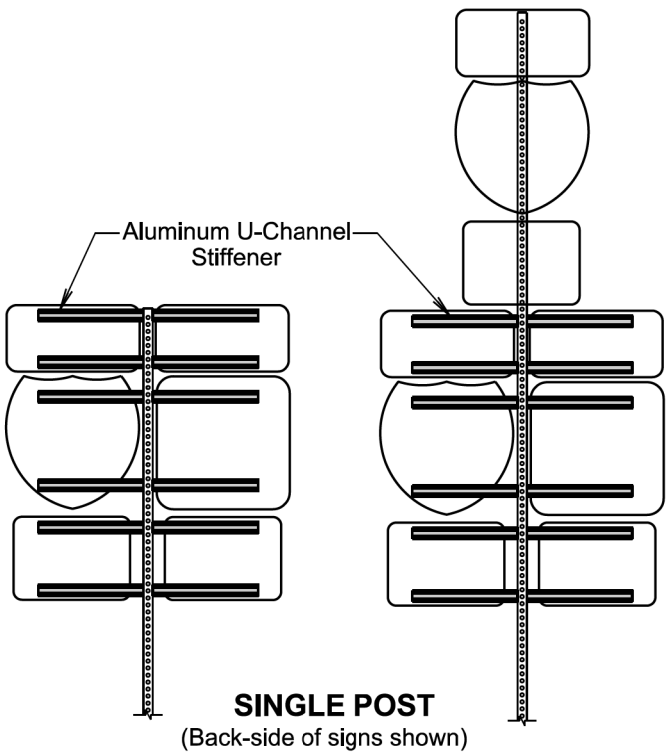
December 23, 2019

Published Date: 2026	S D D O T	NON-INTERSTATE MILEAGE REFERENCE MARKERS	PLATE NUMBER 632.30
			Sheet 1 of 1

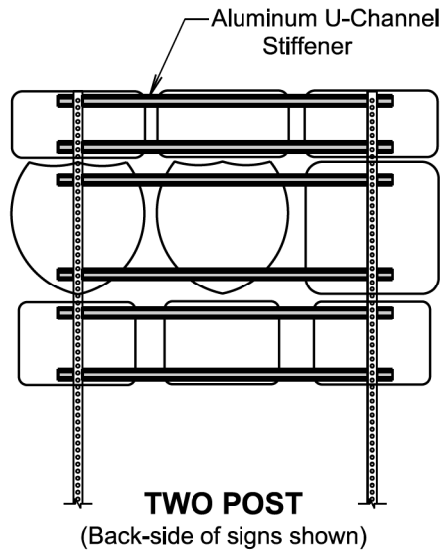


FOR BIDDING PURPOSES ONLY

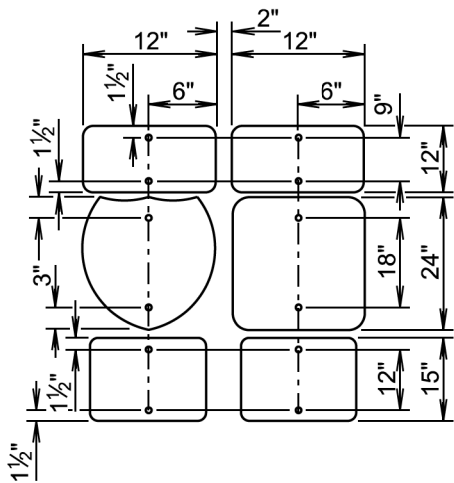
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S19	S21
Plotting Date: 06/30/2025			



**SINGLE POST**  
(Back-side of signs shown)



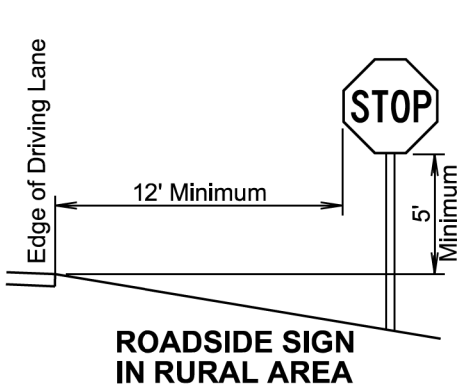
**TWO POST**  
(Back-side of signs shown)



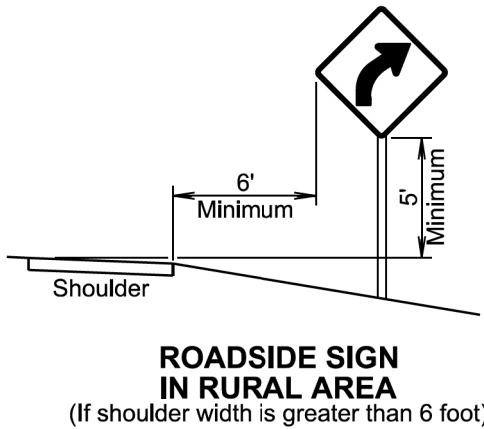
**TYPICAL ROUTE MARKER  
BOLT HOLE LOCATIONS**

November 19, 2020

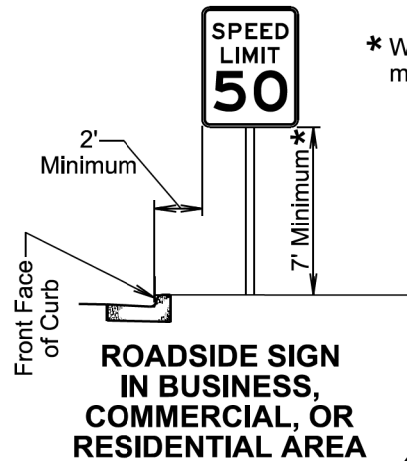
<i>Published Date: 2026</i>	<b>S D D O T</b>	<b>MULTIPLE ROUTE MARKER SIGN STIFFENER INSTALLATION DETAILS</b>	PLATE NUMBER 632.62
			Sheet 1 of 1



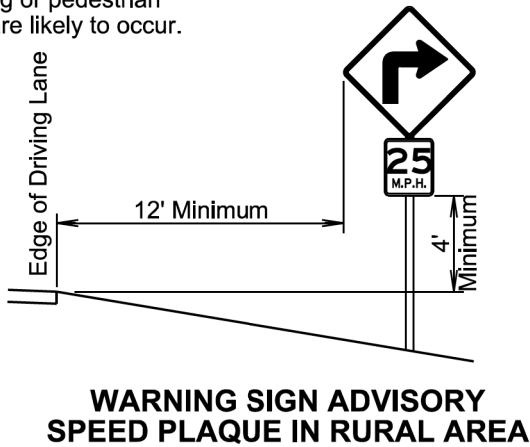
**ROADSIDE SIGN  
IN RURAL AREA**



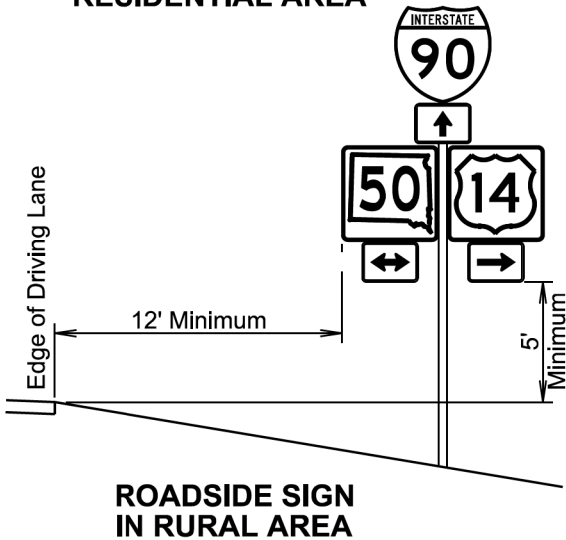
**ROADSIDE SIGN  
IN RURAL AREA**  
(If shoulder width is greater than 6 foot)



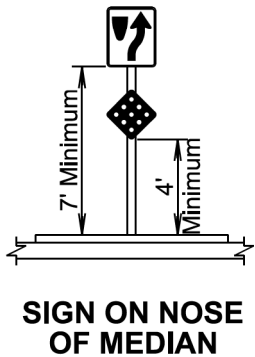
**ROADSIDE SIGN  
IN BUSINESS,  
COMMERCIAL, OR  
RESIDENTIAL AREA**



**WARNING SIGN ADVISORY  
SPEED PLAQUE IN RURAL AREA**



**ROADSIDE SIGN  
IN RURAL AREA**



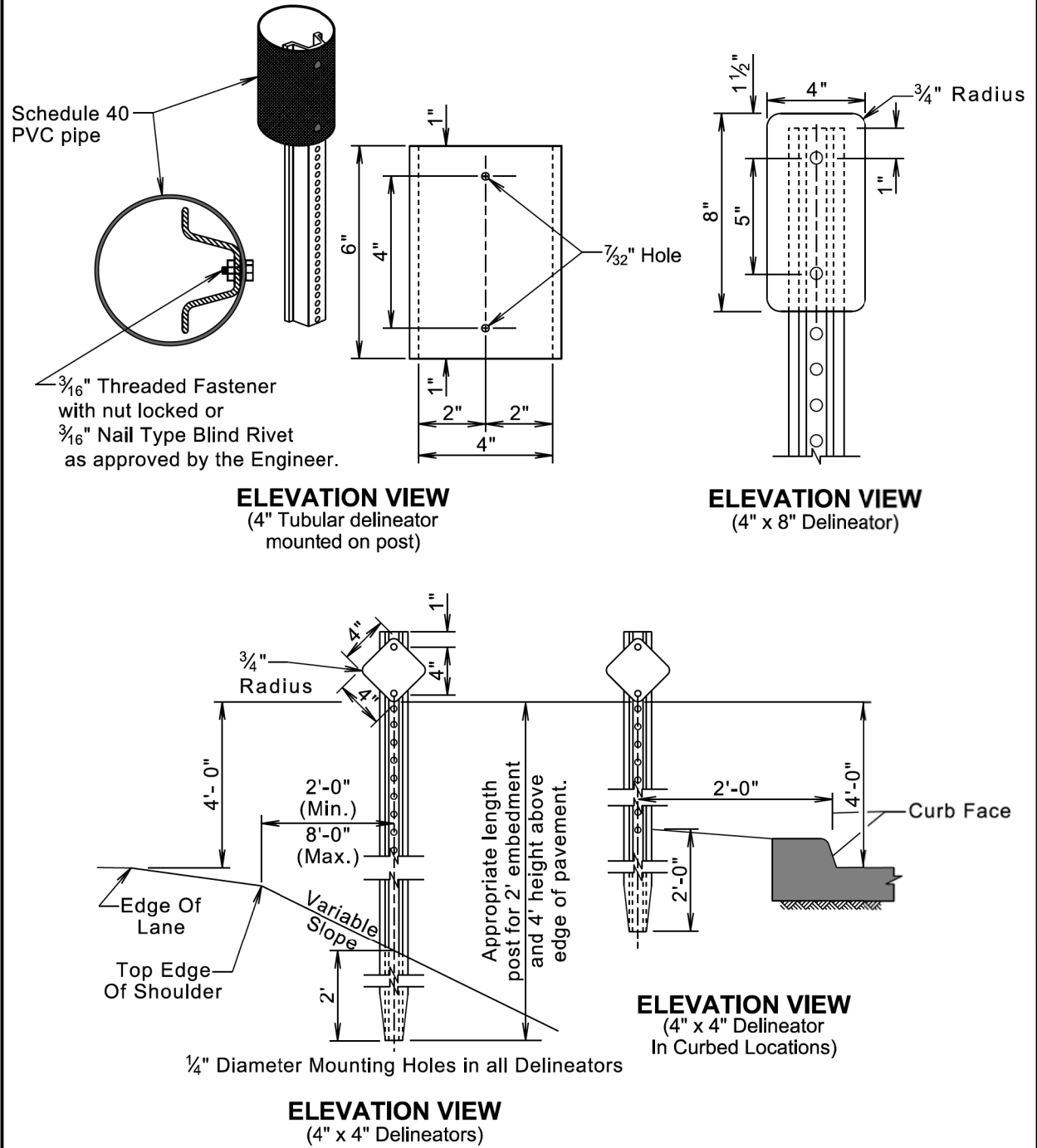
**SIGN ON NOSE  
OF MEDIAN**

April 8, 2025

<i>Published Date: 2026</i>	<b>S D D O T</b>	<b>OFFSETS FOR SIGN INSTALLATION</b>	PLATE NUMBER 632.90
			Sheet 1 of 1

FOR BIDDING PURPOSES ONLY

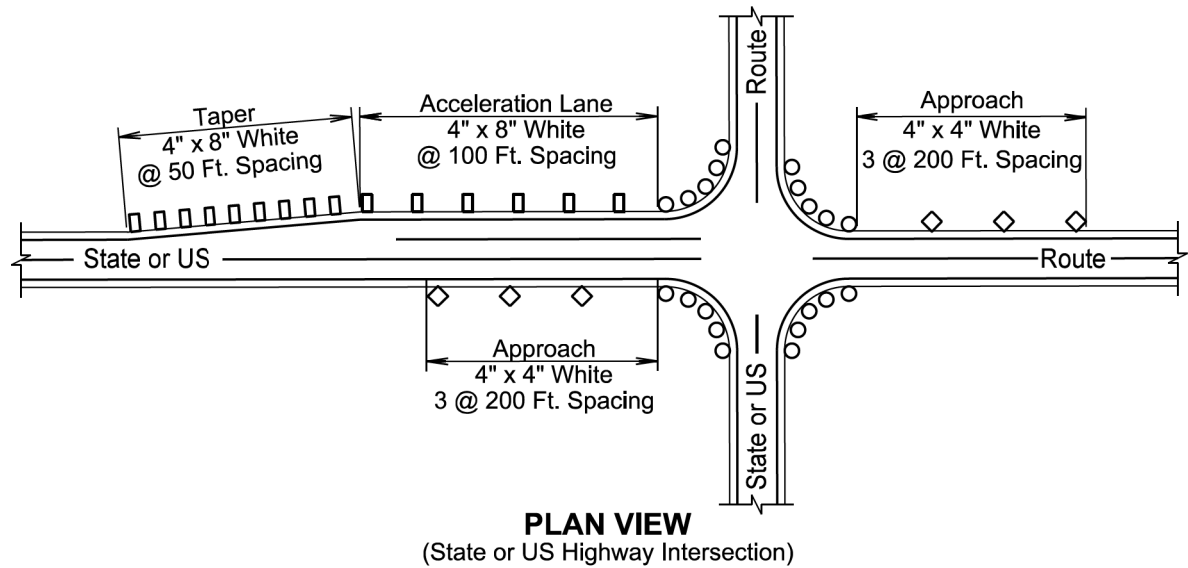
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S20	S21
Plotting Date: 06/30/2025			



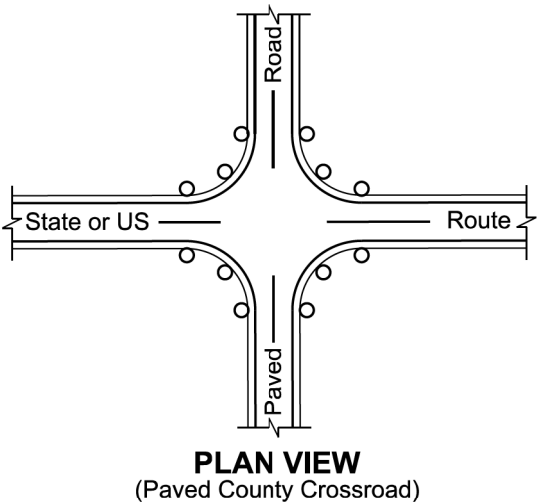
**GENERAL NOTES:**  
Back-to-back delineation is required for two-way traffic, single-sided delineation for one-way traffic.

March 31, 2024

Published Date: 2026	S D D O T	DELINEATOR INSTALLATION DETAIL	PLATE NUMBER 632.42
			Sheet 1 of 1



LEGEND	
◇	4" x 4" White Delineator
□	4" x 8" White Delineator
○	4" x 6" White Tubular Delineator



**GENERAL NOTES:**

At all intersections with State or US highways and paved county roads:

For radii greater than 100 feet, place 5 tubular white delineators on equally spaced posts around the turning radius.

For radii greater than 50 feet up to 100 feet, place 4 tubular white delineators on equally spaced posts around the turning radius.

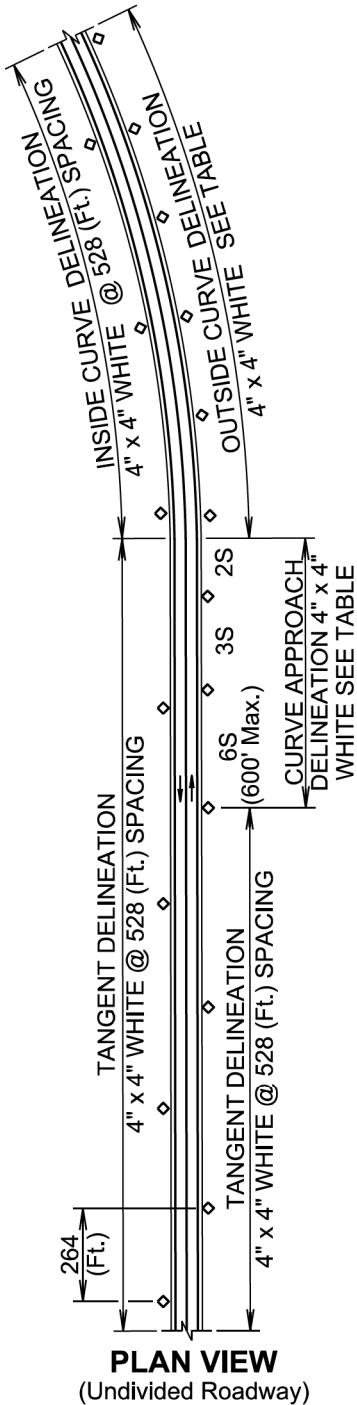
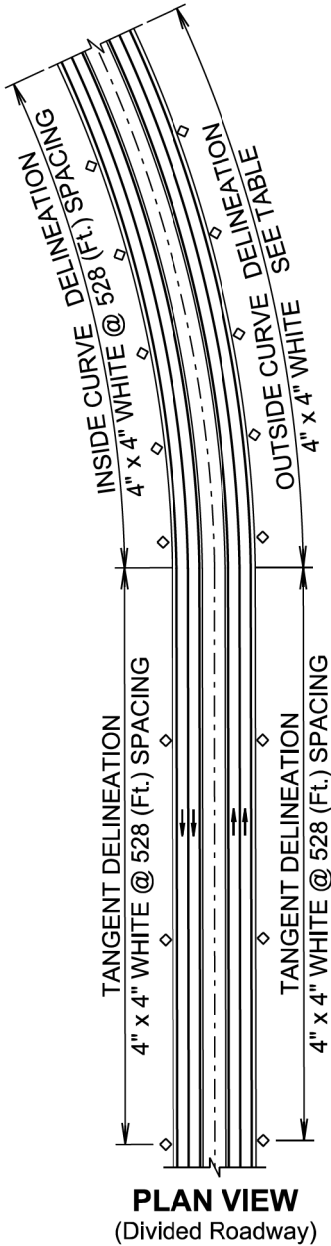
For radii of 50 feet or less, place 3 tubular white delineators on equally spaced posts around the turning radius.

November 19, 2020

Published Date: 2026	S D D O T	DELINEATOR AT INTERSECTIONS	PLATE NUMBER 632.44
			Sheet 1 of 1

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PT 0025(89)149	S21	S21
Plotting Date: 06/30/2025			



March 31, 2024

<i>Published Date: 2026</i>	<b>S D D O T</b>	<b>DELINEATOR INSTALLATION SPACING</b>	PLATE NUMBER 632.46
			Sheet 1 of 2

GENERAL NOTES:

Delineators will be located from 2 to 8 feet outside of the outer edge of shoulder. When a roadside barrier or other obstruction intrudes into the space between the pavement edge and the extension of the line of delineators, the delineators should be in line with the barrier or in line with the innermost edge of the obstruction.

When normal spacing is interrupted by driveways, crossroads, or approaches, delineators falling within such areas may be moved in either direction a distance not exceeding one-quarter of the standard spacing. Delineators still falling within such areas should be eliminated.

The spacing for specific radii may be interpolated from the table. The minimum spacing should be 20 feet. The spacing on curves should not exceed 300 feet. In advance of or beyond a curve, and proceeding away from the end of the curve, the spacing of the first delineator is 2S, the second 3S, and the third 6S, but not to exceed 300 feet. S refers to the delineator spacing for specific radii computed from the formula  $S = 3\sqrt{R - 50}$ . The distances for S shown in the table were rounded to the nearest 5 feet.

Curve approach delineation is not required if curve delineation spacing exceeds 100 ft.

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

DELINEATOR SPACING OUTSIDE CURVE				
Radius of Curve (Ft.)	Curve Delineator Spacing (Ft.)	Curve Approach Spacing (Ft.)		
		A	B	C
50	20	40	65	125
115	25	50	75	150
150	30	60	90	180
180	35	70	110	215
250	40	85	125	250
300	45	95	140	285
400	55	110	170	300
500	65	125	190	300
600	70	140	210	300
700	75	150	230	300
800	80	165	245	300
900	85	175	260	300
1000	90	185	275	300

March 31, 2024

<i>Published Date: 2026</i>	<b>S D D O T</b>	<b>DELINEATOR INSTALLATION SPACING</b>	PLATE NUMBER 632.46
			Sheet 2 of 2