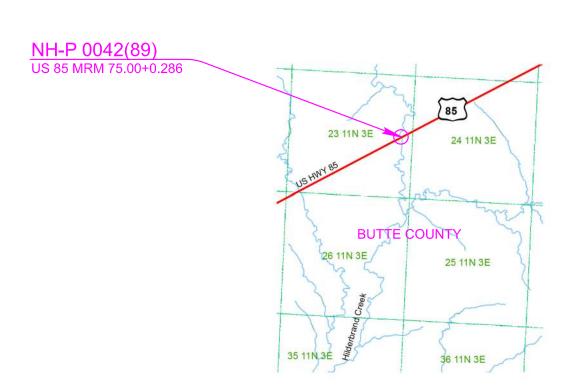
SECTION S: PERMANENT SIGNING PLANS

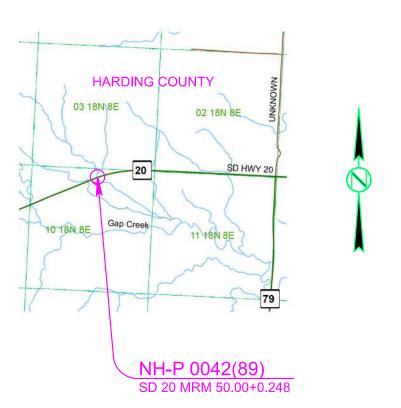


INDEX OF SHEETS

S1 General Layout with Index
S2 Estimate with General Notes & Tables
S3-S6 Standard Plates







SECTION S – ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
632E2022	4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post	10	Each
632E2510	Type 2 Object Marker Back to Back	4	Each
632E2520	Type 2 Object Marker	8	Each

GENERAL PERMANENT SIGNING

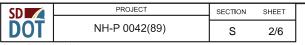
New sign installations will be staked in the field by the Contractor and checked by the Engineer. The Contractor will give the Engineer a minimum of one week to check staked locations prior to signpost installation. Lateral offset of signs will be as shown in the plans or as directed by the Engineer.

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

MILEAGE REFERENCE MARKERS

Mileage Reference Markers (MRMs) are not to be disturbed. 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.

DELINEATORS



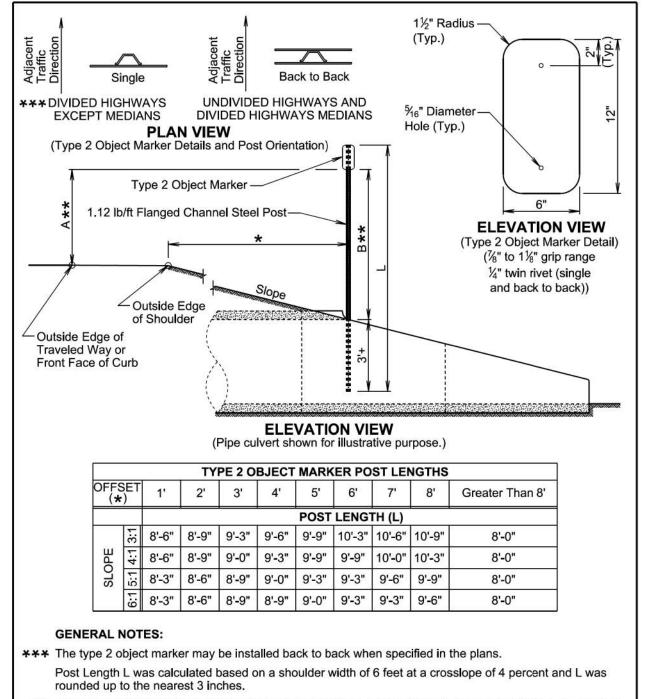
DELINEATOR TABLE

	BEGIN	END	TOTAL SEGMENT LENGTH (MI)	TOTAL SEGMENT LENGTH (FT)	Delins for Tangent								
Hwy 85 MRM 75.00+0.286	23+00	33+00	0.19	1,000	4								
Hwy 20 MRM 50.00+0.248	306+15	316+75	0.20	1,060	3								
			Curve Length	Deflection Angle	Degree of Curvature	Radius	Spacing	1st Delin. From Curve (2S)	2nd Delin. From Curve (3S)	3rd Delin. From Curve (6S)	Delins.	# Delins. Inside of Curve	Total Delins. Per Curve
Hwy 20 MRM 50.0 STA 313+01	00+0.248	DIR CRV R	373.4	3.74	1.00	5730.0	225	300	300	300	2	1	3

Total Length of Curves (Ft)	373	Total Delineators for Curves (Includes the 3 in advance of and also the 3 proceeding away from the curve for each location)		3
Total Length of Tangents (Ft)	1687		Total Delineators for Tangents	7
		TOTAL (4"x4" White Back to Back with 1.12 Lb/Ft Post)	DELINEATORS	10

TYPE 2 OBJECT MARKERS

Location	Type 2 Object Marker	Type 2 Object Marker Back to Back
Hwy 85 MRM 75.00+0.286	4	0
Hwy 20 MRM 50.00+0.248	4	4
Total	8	4



** 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.

D D

O

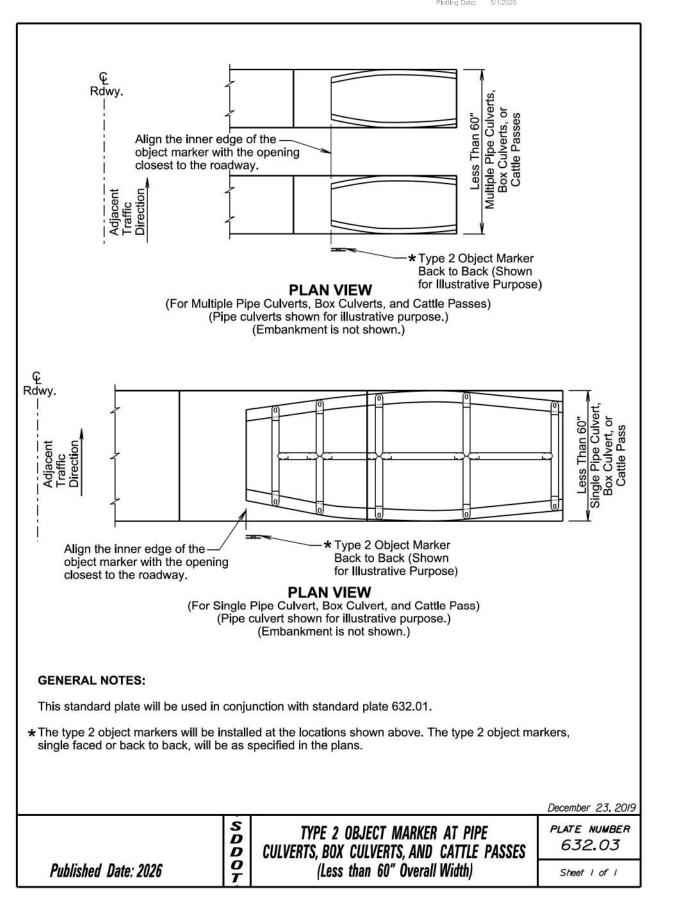
December 23, 2019

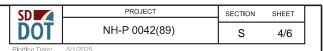
Published Date: 2026

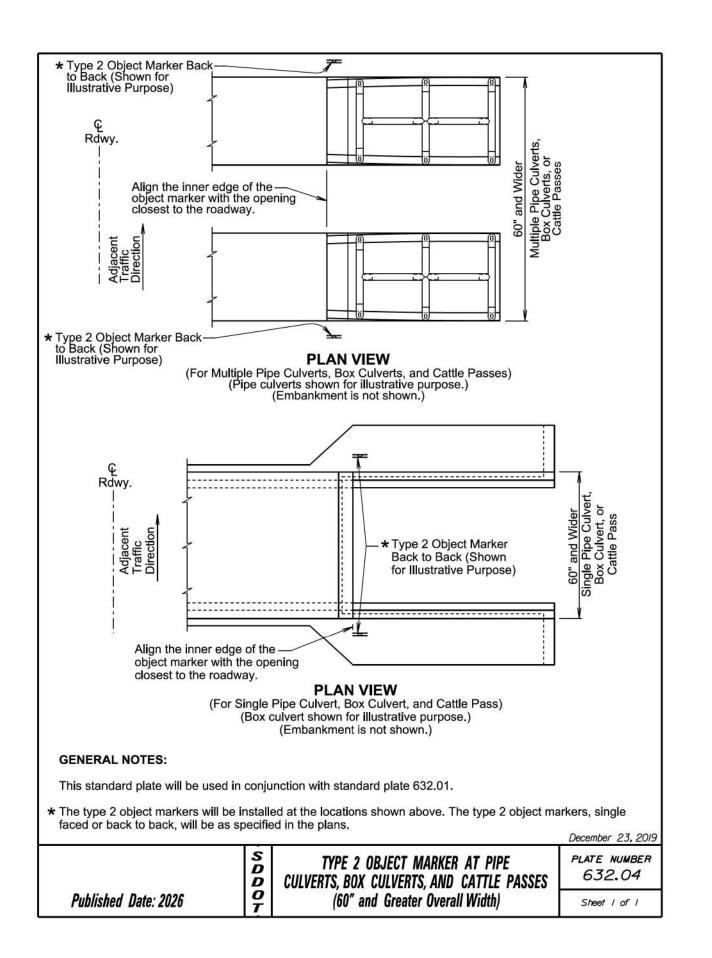
TYPE 2 OBJECT MARKER (DIRECT DRIVE)

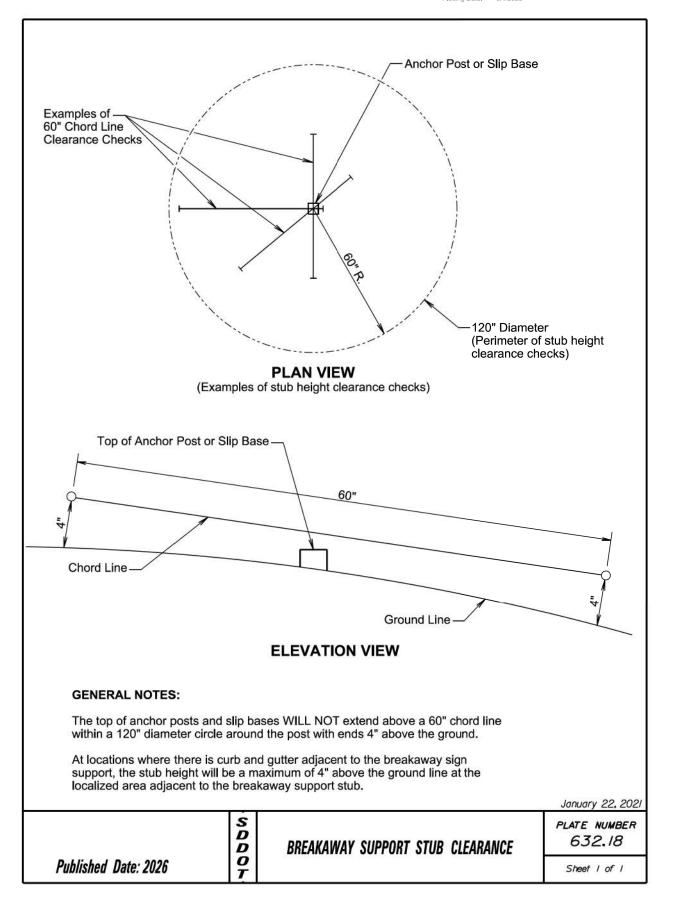
PLATE NUMBER 632.01

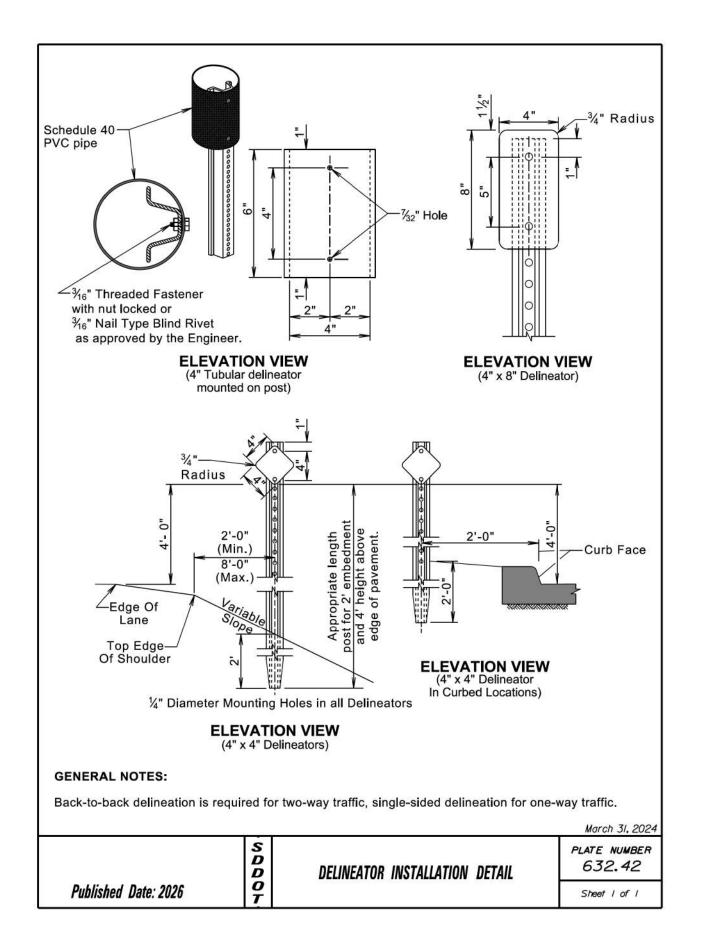
Sheet I of I

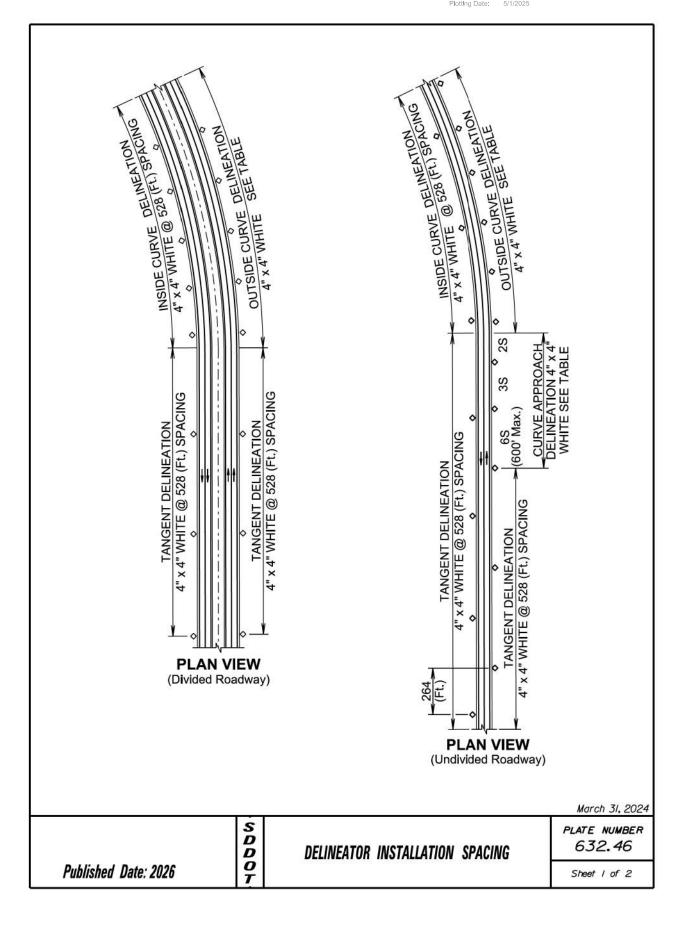












GENERAL NOTES:

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 form 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 Delineator	Curve Approach Spacing (Ft.)					
Curve (Ft.)	Spacing (Ft.)	Α	В	С			
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

SDDOT

DELINEATOR INSTALLATION SPACING

PLATE NUMBER 632.46

Sheet 2 of 2

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