

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	2	37

REV. 25/01/21 dw

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
110E0130	Remove Traffic Sign	51	Each
110E7150	Remove Sign for Reset	43	Each
320E7035	Grind Sinusoidal Transverse Rumble Strip in Asphalt Concrete	9,212.0	SqFt
380E7035	Grind Sinusoidal Transverse Rumble Strip in PCC Pavement	392.0	SqFt
632E1320	2.0"x2.0" Perforated Tube Post	480.1	Ft
632E1340	2.5"x2.5" Perforated Tube Post	864.2	Ft
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	755.7	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	121.0	SqFt
632E3500	Reset Sign	43	Each
633E0235	Preformed Thermoplastic Pavement Marking, Arrow	3	Each
633E0245	Preformed Thermoplastic Pavement Marking, Message	23	Word
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	3	Each
633E5035	Grooving for Cold Applied Plastic Pavement Marking, Message	23	Word
634E0010	Flagging	260.0	Hour
634E0110	Traffic Control Signs	137.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0565	Remove Pavement Marking, Arrow	2	Each
634E0570	Remove Pavement Marking, Message	23	Word

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications and Special Provisions as included in the Proposal.

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: https://dot.sd.gov/doing-business/environmental/about-environmental

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

<u>COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES</u>

COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

COMMITMENT C: WATER SOURCE

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water (≥140 °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

The Contractor will not withdraw water directly from streams of the James, Big Sioux, and Vermillion watersheds without prior approval from the SDDOT Environmental Office.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Environment and Natural Resources (DENR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at: http://sdleastwanted.com/maps/default.aspx.

South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species: https://sdleqislature.gov/rules/DisplayRule.aspx?Rule=41:10:04

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

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COMMITMENT H: WASTE DISPOSAL SITE

The Contractor will furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the Public ROW.

The waste disposal site(s) will be managed and reclaimed in accordance with the following from the General Permit for Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Environment and Natural Resources.

The waste disposal site(s) will not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Environmental Office and the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements will apply:

- 1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with fences, gates, and placement of a sign or signs at the entrance to the site stating, "No Dumping Allowed".
- 2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period not to exceed the duration of the project. Prior to project completion, the waste will be removed from view of the ROW or buried, and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) will be incidental to the various contract items.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO or THPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 100 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

GENERAL NOTE

The Contractor is to sequence his work so as to work in and complete one Area before continuing on to the next Area.

GENERAL TRAFFIC CONTROL

Existing guide, route, informational logo, regulatory, and warning signs will be temporarily reset and maintained during construction. Removing, relocating, covering, salvaging, and resetting of existing traffic control devices, including delineation, will be the responsibility of the Contractor. Cost for this work will be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost will be replaced by the Contractor at no cost to the State.

All temporary traffic control sign locations will be set in the field by the Contractor and verified by the Engineer prior to installation.

Portable sign supports will not be located on sidewalks, bicycle facilities, or other areas designated for pedestrian or bicycle traffic.

All construction operations will be conducted in the general direction of traffic movement.

If there is a discrepancy between the traffic control plans, plates, and the Manual on Uniform Traffic Control Devices, whichever is more stringent will be used, as determined by the Engineer.

Unless otherwise stated in these plans, work will not be allowed during hours of darkness.

Fixed location signing placed more than 4 calendar days prior to the start of construction will be covered or laid down until the time of construction. The covers must be approved by the Engineer prior to installation. The cost of materials, labor, and equipment necessary to complete this work will be incidental to other contract items. No separate payment will be made.

All fixed location signs, signposts, and breakaway bases will be removed within 7 calendar days following pavement marking.

Traffic will be maintained on the driving lanes. Use of the shoulder as a driving lane will not be permitted. Any damage to the shoulder due to rerouted traffic or Contractor's equipment will be repaired at no expense to the Department.

TRAFFIC CONTROL SIGNS

Enough traffic control devices have been included in these plans to sign one workspace. If the Contractor elects to work on additional locations simultaneously, the cost for additional traffic control devices will be incidental to the contract unit price per square foot for Traffic Control Signs.

FLAGGING

Operations will be conducted so that the traveling public will not have to wait longer than 10 minutes at the flagger station.

Flagger warning signs and flagger hours have been included in the Estimate of Quantities for two flaggers at each workspace. These flaggers will be used as directed by the Engineer and will be used primarily during daytime hours.

It is required that the flaggers be able to communicate with one another. If an emergency vehicle needs to pass through the project, the Contractor will be required to expedite traffic movement. Cost associated with this will be incidental to the contract unit price per hour for Flagging.

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GENERAL PERMANENT SIGNING NOTES

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 vertically mounted in succession, they will be 1-2 inches apart.

Prior to ordering signposts, the Contractor will verify post lengths. 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.

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

REMOVE TRAFFIC SIGN

Existing signs that are shown as being removed in the Sign 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 Sign Table.

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. Digitally printed signs will not be accepted.

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.

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" 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 ¼-inch diameter drive rivets. Refer to the TYPICAL SIGN INSTALLATIONS sheet for sign and stiffener details.

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

All auxiliary signs used with South Dakota state route markers will have green borders with black legend or symbol on a high intensity white background.

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.

Shop plans for signs will be sent to:

Corey.Pinkley@state.sd.us

and Danl.wipf@state.sd.us

SQUARE TUBE ANCHOR SLEEVE

On 2.0"X2.0" Perforated Tube Post installations, the Contractor will furnish and install new 2.5" x 2.5" x 18", 12 Gauge square tube anchor sleeve with wings or equivalent components as approved by the Engineer. 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

2.5" x 2.5", 12 Gauge Perforated Tube Posts will have 2-1/4" x 2-1/4" 12 Gauge Perforated Tube Post telescoped inner post sections as specified in the sign table.

WINGED SLIP BASE ANCHOR

The Contractor will furnish and install new winged slip base anchors for 2.5"X2.5" Perforated Tube Posts. 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" winged anchor (lower), and a hardware kit.

FLUSH SEAL

A flush seal of SS-1h or CSS-1h Emulsified Asphalt for Flush Seal will be applied at a rate of 0.05 Gallon per Square Yard on the ground asphalt composite surface. Application will occur within fourteen calendar days, with no seasonal limitation, after initiation of Sinusoidal Transverse Rumble Strip Grinding.

Acceptance of SS-1H or CSS-1H will be by certification, with no samples required.

The Contractor will be required to remove loose material from the driving surface and/or asphalt shoulders of the roadway. Loose material may be broomed to the edge of shoulders. It will be the Contractor's responsibility to ensure the loose material does not enter any vegetated areas or waterways.

Cost for the flush seal operation, including removing loose material from the roadway, will be incidental to the contract unit price per square foot for Grind Sinusoidal Transverse Rumble Strip in Asphalt.

The Contractor will take care to protect existing pavement markings from flush seal overspray.

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

			CONVENTIO	NAL ROAD	
SIGN CODE	SIGN DESCRIPTION	NUM BER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-1	ROAD WORK AHEAD	4	48" x 48"	16.0	64.0
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
G20-2	END ROAD WORK	2	36" x 18"	4.5	9.0
		CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT			137.0

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PREFORMED THERMOPLASTIC PAVEMENT MARKING

General

- Made of prefabricated retroreflective, resilient thermoplastic material;
- Contains glass beads uniformly distributed through the entire crosssectional area:
- Capable of being affixed to bituminous or concrete pavement by heating;
- Resistant to deterioration due to exposure to sunlight, water, salt, and adverse weather conditions;
- Under traffic wear, shows no appreciable fading in accordance with the color requirements, lifting, or shrinkage throughout the life of the marking;
- Capable of conforming to pavement contours, breaks, and faults through the action of traffic at normal pavement temperatures;
- Possesses resealing characteristics, such that it is capable of fusing with itself and previous thermoplastic markings when heated; and
- Protected during shipment and in storage.

Apply the preformed thermoplastic pavement marking as recommended by the manufacturer to provide a neat, durable marking that will not flow, distort, or crack due to temperature if the pavement surface remains stable. Use equipment and application methods specified by the manufacturer. Primer as required by the manufacturer will be provided with the material.

Application of the markings will include the use of any manufacturer recommended sealers. Sealers may be required on concrete pavements, inside grooves, or on older asphalt pavements. Prior to placing any markings on new concrete, the Contractor will remove any curing compounds. Removal will be by sandblasting or other standard industry methods.

Any required primers or sealers will be included in the contract unit price for the various preformed thermoplastic pavement marking items.

Provide precut messages and symbols meeting the requirements of the MUTCD and the Standard Signs Manual in custom kits. Use separate pieces or segments to form individual letters or symbols only to the extent supplied by the manufacturer. Provide shapes, sizes, and colors as required by the contract.

Color

 Will meet the color specification limits and luminance factors for Cold Applied Plastic Pavement Marking and Legends (Section 983.2 D, Tables 1 and 2).

Glass Beads

- Ensure the preformed thermoplastic pavement marking contains a minimum 30% intermixed glass beads by weight and a minimum 80% true spheres.
- Ensure preformed thermoplastic pavement markings contain only clear beads.

Skid Resistance

 Ensure the surface of the preformed thermoplastic pavement marking provides a skid resistance value of at least 45 British Pendulum Number (BPN) when tested in accordance with ASTM E303.

PREFORMED THERMOPLASTIC PAVEMENT MARKING (CONTINUED)

Retroreflectivity

 Provide preformed thermoplastic pavement marking meeting the minimum initial pavement marking retroreflectivity values using 30 m geometry and meeting the testing procedures of ASTM E1710:

Minimum Initial Pavement Marking Retroreflectivity							
White Yellow							
Thermoplastic	400 mcd/sq. ft./ft.	250 mcd/sq. ft./ft.					
Thermoplastic, enhanced skid resistance (ESR)	250 d/sq. ft./ft.	150 d/sq. ft./ft.					

Thickness

- A longitudinal marking is a minimum 90 mils thick at the edges, and a maximum 125 mils thick at the center of the stripe.
- Transverse markings and symbols are a minimum 125 mils thick at the edges, and a maximum 160 mils thick at the center.

Sample

- Prior to application, the Contractor will provide a sample of the preformed thermoplastic pavement marking to be used on the project to the Region Traffic Engineer for inspection and approval.
- Do not begin application of the preformed thermoplastic pavement marking prior to obtaining the Region Traffic Engineer's approval of the preformed thermoplastic pavement marking material. The Region Traffic Engineer's approval of the preformed thermoplastic pavement marking does not void other preformed thermoplastic pavement marking requirements specified.

GROOVING FOR PREFORMED THERMOPLASTIC PAVEMENT MARKING

Grooving for the preformed thermoplastic pavement markings will be done according to Grooving for Cold Applied Plastic Pavement Marking in the specifications.

All surfaces receiving preformed thermoplastic pavement markings will be grooved the same day as the application of the preformed thermoplastic pavement markings.

The Contractor will establish a positive means for the removal of the grinding and/or grooving residue. Residue from dry grooving will be vacuumed. Solid residue will be removed from the pavement surfaces before being blown by traffic action or wind. The Contractor will conduct this work to control and minimize airborne dust and similar debris that may become a hazard to motor vehicle operation or nuisance to property owners. Residue from wet grooving will not be permitted to flow across lanes being used by public traffic or into gutter or drainage facilities. Residue, whether in solid or slurry form, will be disposed of in a manner that will prevent it from reaching any waterway in a concentrated state. All costs for removal of grinding and/or grooving residue will be included in the contract unit price per each or per word for the various Preformed Thermoplastic Pavement Marking contract items.

REMOVE PAVEMENT MARKING, ARROW

The estimated two painted pavement marking arrows requiring removal in the outside lane facing north of South Dakota State Trunk Highway 37 at its junction with SD34 at MRM (Mileage Reference Marker) 95.64 are located in asphalt composite.

REMOVE PAVEMENT MARKING, MESSAGE

The messages in the estimated quantity for removal are located in asphalt composite with the exception of one STOP message facing east on SD 42 at its junction with US 81 at MRM 333.06 and one STOP message facing west on SD 42 at its junction with US 81 at MRM 333.06 which are located in PCC Concrete.

GROOVING FOR PAVEMENT MARKING, ARROW

The estimated three pavement marking arrows installed in the outside lane facing north of SD 37 at its junction with SD34 at MRM 95.64 will require grooving in asphalt composite.

GROOVING FOR PAVEMENT MARKING, MESSAGE

The messages in the estimated quantity for installation will require grooving. The messages are located in asphalt composite with the exception of one STOP message facing east on SD 42 at its junction with US 81 at MRM 333.06 and one STOP message facing west on SD 42 at its junction with US 81 at MRM 333.06 which are located in PCC Concrete.

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PAVEMENT MARKING TABLE

HIGHWAY	MRM AT CROSSROAD INTERSECTION	LOCATION	THERMOPLASTIC ARROW 633E0235	THERMOPLASTIC MESSAGE 633E0245	GROOVING- ARROW 633E5025	GROOVING- MESSAGE 633E5035	REMOVE ARROW 634E0565	REMOVE MESSAGE 634E0570
		Yanl	kton Area Locatio	n				
SD52	332.24	FACING NORTH AT 50 northwest of Yankton		3		3		3
		Mitch	nell Area Location	ıs				
SD37	95.64	FACING NORTH (INSIDE LANE) AT SD34		3		3		3
		FACING NORTH (OUTSIDE LANE) AT SD34 west of Artesian	3	2	3	2	2	2
SD42	333.06	FACING EAST AT US81 east of Bridgewater		3		3		3
		FACING WEST AT US81 east of Bridgewater		3		3		3
SD25	61.71	FACING SOUTH AT SD38 southeast of Farmer		3		3		3
US281	96.17	FACING NORTH AT SD 34 west of Lane		3		3		3
		NOTE: THE SINGLE STOP WILL BE PLACED	AT THE BEGIN OF T	HE SLIP RAMP RADIL	' JS-125′± IN Α[VANCE OF TH	E SD 34 EDG	ELINE.
		FACING SOUTH AT SD 34 west of Lane		3		3		3
		NOTE: THE SINGLE STOP WILL BE PLACED	AT THE BEGIN OF T	HE SLIP RAMP RADIL	JS-125'± IN A[OVANCE OF TH	E SD 34 EDG	ELINE.
		PROJECT TOTALS	3	23	3	23	2	23

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RUMBLE STRIP TABLE

		IVOIVIL	<i></i>				
HIGHWAY	MRM AT CROSSROAD INTERSECTION	LOCATION	QUANTITY Sq(uare) F(oo)t	HIGHWAY	MRM AT CROSSROAD INTERSECTION	LOCATION	QUANTITY Sq(uare) F(oo)t
	Sioux	Falls Area Locations			N	Mitchell Area Locations	
SD11	54.48	FACING NORTH AT US18 west of Canton	392.0 SqFt	US18	355.86	FACING WEST AT US281 south of Armour	392.0 SqFt
SD11	55.43	FACING SOUTH AT US18 west of Canton	392.0 SqFt	SD25	61.71	FACING SOUTH AT SD38 southeast of Farmer	392.0 SqFt
SD13	105.00	FACING SOUTH AT SD34 south of Flandreau	392.0 SqFt	SD37	95.64	FACING NORTH (INSIDE LANE) AT SD34 FACING NORTH (OUTSIDE LANE) AT SD34	392.0 SqFt 196.0 SqFt
US18	420.81	FACING WEST AT SD19 west of Davis	392.0 SqFt			ADVANCE SET ONLY west of Artesian	
SD19	65.50	FACING SOUTH AT SD42 at Pumpkin Center	392.0 SqFt	SD42	333.06	FACING EAST AT US81 east of Bridgewater	392.0 SqFt
SD44	395.83	FACING WEST AT SD19 west of Chancellor	392.0 SqFt			FACING WEST AT US81 east of Bridgewater	392.0 SqFt
		Sioux Falls Area TOTAL 320E7035	2352.0 SqFt	SD50	273.42	FACING SOUTH AT SD44 west of Platte	392.0 SqFt
SD19A	Yanl 33.43	kton Area Locations FACING WEST AT SD19	392.0 SqFt	SD50	327.84	FACING SOUTH AT SD46 west of Wagner	392.0 SqFt
SD25	27.00	west of Centerville FACING NORTH AT US18	392.0 SqFt	SD203	53.00	FACING SOUTH AT SD258 east of Plankinton	392.0 SqFt
		north of Scotland	•	SD258	279.48	FACING EAST AT US281 east of Plankinton	392.0 SqFt
SD50	423.62	FACING WEST AT SD11 west of Richland	392.0 SqFt	SD1804	120.16	FACING NORTH AT SD44	392.0 SqFt
SD52	332.24	FACING NORTH AT 50 northwest of Yankton	392.0 SqFt	US281	96.17	west of Platte FACING NORTH AT SD34	392.0 SqFt
SD153	1.25	FACING SOUTH AT SD52 west of Yankton	392.0 SqFt			west of Lane FACING SOUTH AT SD34	392.0 SqFt
		Yankton Area TOTAL 320E7035	1960.0 SqFt			west of Lane	
						Mitchell Area TOTAL 320E7035	4900.0 SqFt
				SD38P	303.89	NORTHBOUND AT SD38 east of Mitchell	392.0 SqFt
					Grind Sinuso	idal Transverse Rumble Strip in PCC Concrete Mitchell Area TOTAL 380E7035	392.0 SqFt
		Gri	nd Sinusoidal	Transverse Ru	ımble Strip in Asphalt	Concrete-320E7035 PROJECT TOTAL	9212.0 SqFt
			Grind Sinusoid	dal Transverse	Rumble Strip in PCC	Concrete-380E7035 PROJECT TOTAL	392.0 SqFt

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										TABLE		PO	ST DATA	
	I	CION	CICN	ADEA		l	1	1				1		NEED ((E))
		SIGN		AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET			ST	SIZE/QUA	NIIIY {Ft}
DESCRIPTION	SIGN	SIZE		ηFt)	(R)IGHT/	FACES		SIGN FOR		COMMENTS	LENG	THS X	2.0"x2.0"	2.5"x2.5"
	CODE	(Ft)	Type IV		(L)EFT			RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										SD11 M(ileage) R(erence) M(arker) 54.48				
← Sioux Falls										FACING NORTH AT 18 WEST OF CANTON				
← TO 29	D1-3	7.00X 3.50	24.5		16' R	SOUTH	1 [2W]			SEE	13.0'	14.1'		27.1'
Canton ->										INTERSECTION ADVANCE SIGNING (TYPICAL) SHEET				
11 18	M1-5	2.00X 2.00			16' R	SOUTH	1 [W]							
11 18	M5-1	1.75X 1.25												
4	M1-4	2.00X 2.00												
	M6-4	1.75X 1.25												00.5
	M3-4	2.00X 1.00	2.0			SOUTH				NOTAL IN THE CORPUS OF THE CO.	13.8'	14.8'		28.6'
WEST NORTH EAST	M1-4	2.00X 2.00	4.0							INSTALL IN THE NORTHEAST QUADRANT				
	M6-1	1.75X 1.25	2.2							OF THE INTERSECTION				
18 11 18	M3-1	2.00X 1.00	2.0											
AAA	M1-5	2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2											
	M3-2 M1-4	2.00X 1.00 2.00X 2.00	2.0 4.0											
	M6-1	1.75X 1.25	2.2											
Nonzu	M3-1	2.00X 1.00	2.0		16' R	SOUTH					13	5.6'	13.6'	
NORTH	M1-5	2.00X 1.00 2.00X 2.00	4.0		10 10	300111					10	1	10.0	
11	M5-1	1.75X 1.25	2.2											
4		1.7 674 1.26												
ICT	M2-1	1.75X 1.25	2.2		16' R	SOUTH	1 [PT]				13	3.3'	13.3'	
	M1-4	2.00X 2.00	4.0											
JCT 18														
STOP AHEAD	W3-1	4.00X 4.00			16' R	SOUTH		1 [PT]	1	RESET EXISTING SIGN ON NEW SUPPORT	14	.9'		14.9'
										TELESCOPED TO BOTTOM OF SIGN				
							1							
			<u> </u>				 							
TOTALS THIS SHE	FT		63.5	0.0			3	1	1				26.9	70.6
TOTALO TITIO OFIL			30.0	0.0			L	'	'				_0.0	. 5.5

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

^{∞-}Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

STATE OF	PROJECT	SHEET	TOTAL
SOUTH DAKOTA	PH 0020(213)	9	37

										TIADLE		POS	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	ST	SIZE/QUA	NTITY {Ft}
DESCRIPTION	SIGN	SIZE	(Sc	ηFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS 🗶	2.0"x2.0"	2.5"x2.5"
	CODE	(Ft)		TYPEXI	(L)EFT			RESET ∞			INSIDE OUTSIDE		TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										SD11 MRM 54.43				
← Canton	D1-2	5.00X 2.50	12.5		16' R	NORTH	1 [2W]			FACING SOUTH AT US18 WEST OF CANTON	12	2.3'		12.3'
TO (29) ->										SEE				ļ
										INTERSECTION ADVANCE SIGNING (TYPICAL) SHEET				
SOUTH	M3-3	2.00X 1.00	2.0		16' R	NORTH					13	3.6'	13.6'	
11	M1-5	2.00X 2.00	4.0											
4	M5-1	1.75X 1.25	2.2											
JCT	M2-1	1.75X 1.25	2.2		16' R	NORTH	1 [W]				13	3.3'	13.3'	
[18]	M1-4	2.00X 2.00	4.0											
STOP AHEAD	W3-1	4.00X 4.00			16' R	NORTH		1 [PT]	1					
	M1-5	2.00X 2.00			16' R	NORTH	1 [W]							
11 [18]	M6-1	1.75X 1.25]											
$\leftarrow \leftrightarrow$	M1-4	2.00X 2.00												
	M6-4	1.75X 1.25								REPLACE THE ASSEMBLY IN THE SOUTHWEST				
	M3-4	2.00X 1.00	2.0		16' R	NORTH				QUADRANT OF THE INTERSECTION	13.5'	13.5'		27.0'
WEST SOUTH EAST	M1-4	2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2											
18 11 18	M3-3 M1-5	2.00X 1.00 2.00X 2.00	2.0 4.0											
	M6-1	1.75X 1.25	2.2											
	M3-2	2.00X 1.00	2.0											
	M1-4	2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2											
		_					_							
			_											
TOTALS THIS SHE	ET		51.5	0.0			3	1	1				26.9	39.3

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

^{∞-}Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	10	37

												PO	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	OST	SIZE/QUA	NTITY {F
DESCRIPTION	SIGN	SIZE	(Sc	ηFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS X	2.0"x2.0"	2.5"x2
	CODE	(Ft)	Type IV	TYPEXI	(L)EFT			RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E13
										SD13 MRM 105.00				
0.4 10	M1-5	2.00X 2.00					1 [W]			FACING SOUTH AT SD34 SOUTH OF FLANDREAU				
34 13	M6-4	1.75X 1.25								077				
←→ END	M1-5	2.00X 2.00								SEE				
	M4-6	2.00X 1.00	04.5		461 D	NODTH	4 50147			INTERSECTION ADVANCE SIGNING {TYPICAL} SHEET		44.0		27.0
← Pipestone MN 15 Egan 3 JCT Ø	D1-3a	9.00X 3.50	31.5		16' R	NORTH	1 [2W]			SUPPORTS TELESCOPED TO BOTTOM OF SIGN	13.2'	14.6'		27.8
JCT	M2-1	1.75X 1.25	2.2		16' R	NORTH	1 [PT]				13	3.3'	13.3'	
34	M1-5	2.00X 2.00	4.0											
STOP AHEAD	W3-1	4.00X 4.00		16.0	16' R	NORTH	1 [PT]			SUPPORT TELESCOPED TO BOTTOM OF SIGN	14	1.9'		14.9
END	M4-6	2.00X 1.00					1 [PT]							
13 34	M1-5	2.00X 2.00												
	M1-5	2.00X 2.00												
+	M6-4	1.75X 1.25			401.5					REPLACE THE ASSEMBLY IN THE SOUTHEAST				07.6
	M3-2	2.00X 1.00	2.0		16' R	NORTH				QUADRANT OF THE INTERSECTION	13.5'	13.5'		27.0
EAST END WEST	M1-5 M6-1	2.00X 2.00	4.0											
	M4-6	1.75X 1.25 2.00X 1.00	2.2											
34 13 34	M1-5	2.00X 1.00 2.00X 2.00	4.0											
← →	M3-3	2.00X 2.00 2.00X 1.00	2.0											
←	M1-5	2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2											
										US18 MRM 420.81				
STOP AHEAD	W3-1	4.00X 4.00			16' R	EAST		1 [2PT]	1	RESET EXISTING SIGN ON NEW SUPPORT TELESCOPED TO BOTTOM OF SIGN SEE	15	5.0'		15.0
										INTERSECTION ADVANCE SIGNING (TYPICAL) SHEET				
OTALS THIS SHE	ET		60.1	16.0			5	1	1				13.3	84.

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

⁻Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	11	37

			SIGN	DATA								POS	ST DATA	
		SIGN		AREA	055057	0.0							SIZE/QUA	
					OFFSET*	SIGN		REMOVE	RESET	00141451170		OST		1
DESCRIPTION	SIGN	SIZE		qFt)	(R)IGHT/	FACES		SIGN FOR		COMMENTS			2.0"x2.0"	
	CODE	(Ft)	Type IV	TYPEXI	(L)EFT			RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E134
										SD19 MRM 65.50				
	D4.0	0.007.0.20	00.0		40LD	NODTU	4 50147			540NO 00UTU 47 00 40	40.01	13.2'		05.01
+ Sioux Falls 14	D1-2a	8.00X 2.50	20.0		16' R	NORTH	1 [2W]			FACING SOUTH AT SD 42 SEE	12.0'	13.2		25.2'
Parker 11 →										INTERSECTION ADVANCE SIGNING {TYPICAL} SHEET				
	M1-5	2.00X 2.00			16' R	NORTH	1 [PT]			INTERCED HOW AD VANCE CICINING (THE TOAL) CHEET				
19	M5-1	1.75X 1.25			10 10	NOINTI	' [' ']							
F		1.70/(1.20												
SOUTH	M3-3	2.00X 1.00	2.0		16' R	NORTH					14	1.7'	14.7'	
SOUTH 19 □	M1-5	2.00X 2.00	4.0											
P	M5-1	1.75X 1.25	2.2											
JCT	M2-1	1.75X 1.25	2.2		16' R	NORTH					13	3.3'	13.3'	
42	M1-5	2.00X 2.00	4.0											
STOP AHEAD	W3-1	4.00X 4.00		16.0	16' R	NORTH	1 [PT]				14	1.9'		14.9
40 10	M1-5	2.00X 2.00			16' R	NORTH	1 [PT]							
42 19	M6-4	1.75X 1.25												
\leftrightarrow	M1-5	2.00X 2.00												
11	M6-1	1.75X 1.25			401.0					REPLACE THE ASSEMBLY IN THE SOUTHWEST	40.51	10.51		07.0
	M3-2	2.00X 1.00	2.0		16' R	NORTH				QUADRANT OF THE INTERSECTION	13.5'	13.5'		27.0
	M1-5 M6-1	2.00X 2.00 1.75X 1.25	4.0 2.2											
EAST SOUTH WEST	M3-3	2.00X 1.00	2.2											
	M1-5	2.00X 1.00 2.00X 2.00	4.0											
42 19 42	M6-1	1.75X 1.25	2.2											
$\leftarrow \rightarrow \rightarrow$	M3-4	2.00X 1.00	2.0											
	M1-5	2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2											
			56.0	46.5									00.0	
TOTALS THIS SHE			59.0	16.0			4	0	0				28.0	67.1
SIOUX FA	LLS AR	EA TOTALS	234.1	32.0			15	3	3				95.1	261.7

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

∞-Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

SHEET 4 OF 4

Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	12	37

					173			LA 3		7.522				
				DATA	1		1					POS	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET	л)ST	SIZE/QUA	NTITY {Ft}
DESCRIPTION	SIGN	SIZE	(Sc	qFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENGTHS X		2.0"x2.0"	2.5"x2.5"
	CODE	(Ft)	Type IV	TYPEXI	(L)EFT		SIGN 🗪	RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										SD19A MRM 33.43				
← JCT 46 2	D1-2a	6.50X 2.50	16.3		16' R	EAST	1 [W]			FACING WEST AT SD19 W of Centerville	12.0'	13.0'		25.0'
Viborg 4 →										SEE				
										INTERSECTION ADVANCE SIGNING (TYPICAL) SHEET				
JCT	M2-1	1.75X 1.25	2.2		16' R	EAST	1 [PT]				13	3.3' I	13.3'	
19	M1-5	2.00X 2.00	4.0											
STOP AHEAD	W3-1	4.00X 4.00		16.0	16' R	EAST	1 IDT			SUPPORT TELESCOPED TO BOTTOM OF SIGN	14	0'		14.9'
STOF AREAD	M1-5	2.50X 2.00		10.0	16' R	EAST	1 [PT] 1 [PT]	 		SOFF OINT TELESCOPED TO BOTTOWIOF SIGN	14	ড		14.9
19A 19	M4-6	2.00X 2.00 2.00X 1.00				E#31	וויין							1
Track Track	M1-5	2.00X 1.00 2.00X 2.00												
END ←→	M6-4	1.75X 1.25								REPLACE THE ASSEMBLY IN THE NORTHWEST				
	M3-3	2.00X 1.00	2.0		16' R	EAST				QUADRANT OF THE INTERSECTION	13.5'	13.5'		27.0'
	M1-5	2.00X 2.00	4.0											
SOUTH END NORTH	M6-1	1.75X 1.25	2.2											
19 19A 19	M4-6	2.00X 1.00	2.0											
	M1-5	2.50X 2.00	5.0											
←	M3-1	2.00X 1.00	2.0											
	M1-5	2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2											
TOTALS THIS SHE	ET		45.9	16.0			4	0	0				13.3	66.9
										t langtha will be field verified by the Contractor				

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

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^{∞-}Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	13	37

					17			LA U	. •	ADLL				
			SIGN	DATA								POS	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	ST	SIZE/QUAI	NTITY {Ft}
DESCRIPTION	SIGN	SIZE	(Se	qFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENGTHS X		2.0"x2.0"	2.5"x2.5"
	CODE	(Ft)	Type IV	TYPEXI	(L)EFT			RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										SD25 MRM 27.00				
← Tripp 13	D1-2a	5.00X 2.50			16' R	SOUTH		1 [PT]	1	FACING NORTH AT US18 W of Olivet	12	3'		12.3'
Olivet 2 →										RESET EXISTING SIGN ON NEW SUPPORT				'
Offvet 2 -										SEE				'
										INTERSECTION ADVANCE SIGNING {TYPICAL} SHEET				
JCT	M2-1	1.75X 1.25	_		16' R	SOUTH		1 [PT]	1					'
[18]	M1-4	2.00X 2.00												'
STOP AHEAD	W3-1	4.00X 4.00			16' R	SOUTH		1 [PT]	1	RESET EXISTING SIGN ON NEW SUPPORT	14	0'		14.9'
OTOL ALLAD	VV3-1	4.00% 4.00			10 10	300111		י נרין	'	SUPPORT TELESCOPED TO BOTTOM OF SIGN	14	.9		14.5
END 10	M4-6	2.00X 1.00			16' R	SOUTH	1 [W]							
	M1-5	2.00X 2.00												'
25	M1-4	2.00X 2.00												'
	M6-4	1.75X 1.25								REPLACE THE ASSEMBLY IN THE NORTHEAST				
	M3-4	2.00X 1.00	2.0		16' R	SOUTH				QUADRANT OF THE INTERSECTION	13.5'	13.5'		27.0'
WEST END EAST	M1-4	2.00X 2.00	4.0											'
	M6-1 M6-4	1.75X 1.25 2.00X 1.00	2.2	l										'
18 25 18	M1-4	2.00X 1.00 2.00X 2.00	4.0	l										'
\leftarrow	M3-2	2.00X 1.00	2.0											'
	M1-4	2.00X 2.00	4.0	1										'
	M6-1	1.75X 1.25	2.2											
														<u> </u>
											<u> </u>			├──
						<u> </u>	<u> </u>				<u> </u>			<u> </u>
											<u> </u>			\vdash
						<u> </u>	<u> </u>	 						
														
						<u> </u>	<u> </u>				$\vdash \vdash$			\vdash
TOTALS THIS SHI	FFT	<u> </u>	22.4	0.0			1	3	3				0.0	54.2
I O I ALO I I IIO OI II			22.4	0.0						t lengths will be field verified by the Contractor			0.0	ŲZ

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

^{▼ -}Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

^{∞-}Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	14	37

					17	HALLI	JN AI	ILA 3	IGN	ADLE				
	_		SIGN	DATA			_					PO	2.0"x2.0" 2 TUBE 632E1320 6	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	OST	SIZE/QUAI	NTITY (Ft)
DESCRIPTION	SIGN	SIZE	(Sc	qFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS X	2.0"x2.0"	2.5"x2.5"
	CODE	(Ft)	Type IV	TYPEXI	(L)EFT		SIGN ∞	RESET∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										SD52 MRM 332.24				
← Tyndall	D1-2	7.00X 2.50			16' R	SOUTH		1 [2PT]	1	FACING NORTH AT SD50 NW of Yankton				
Yankton →										SEE				
	N4 5	2 20 7 2 20				COLITIL	4 04/			INTERSECTION ADVANCE SIGNING (TYPICAL) SHEET				
52	M1-5 M5-1	2.00X 2.00 1.75X 1.25				SOUTH	1 [W]							
52	IVIO-1	1.75% 1.25												
WEST	M3-4	2.00X 1.00	2.0		16' R	SOUTH					14	1.7'	14.7'	
52	M1-5	2.00X 2.00	4.0									1		
4	M5-1	1.75X 1.25	2.2											
JCT	M2-1	1.75X 1.25			16' R	SOUTH		1 [PT]	1					
50	M1-5	2.00X 2.00												
	SPECIAL	2.00X 2.50			16' R	SOUTH		1 [PT]	1					
	M6-1	1.75X 1.25								RESET MAINTAINING 200' SPACINGS				
	<u> </u>													
STOP AHEAD	W3-1	4.00X 4.00			16' R	SOUTH		1 [PT]	1					
52 50	M1-5	2.00X 2.00	_		16' R	SOUTH	1 [W]							
92 90	M6-1	1.75X 1.25												
← ↔	M1-5	2.00X 2.00												
	M6-4	1.75X 1.25	2.0		16' R	COLITIL					13.5'	40 FI		27.0'
	M3-4 M1-5	2.00X 1.00 2.00X 2.00	2.0 4.0		10 K	SOUTH				INSTALL NEW ASSEMBLY IN THE NORTHEAST	13.5	13.5		21.0
WEST WEST EAST		1.75X 1.25	2.2							QUADRANT OF THE INTERSECTION				
	M3-4	2.00X 1.00	2.0								1			
50 52 50	M1-5	2.00X 2.00	4.0								1			
	M6-1	1.75X 1.25	2.2								1			
	M3-2	2.00X 1.00	2.0								1			
	M1-5	2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2								<u> </u>			
	 						<u> </u>	 			<u> </u>			
											<u> </u>			
	1						 	 						
TOTALS THIS SH	FFT		32.8	0.0			2	4	4				14.7	27.0
* Distance from edge of										t lengths will be field verified by the Contractor				

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

∞-Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

SHEET 3 OF 4

^{▼ -}Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	15	37

								ILA U			_			
			SIGN	DATA								PO	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	OST	SIZE/QUAI	NTITY {Ft}
DESCRIPTION	SIGN	SIZE	(Sc	qFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS X	2.0"x2.0"	2.5"x2.5"
	CODE	(Ft)	Type IV	TYPEXI	(L)EFT			RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										SD50 MRM 423.62				
	D1-2a	7.00X 2.50	17.5		16' R	EAST	1 [2PT]			FACING WEST AT SD11 JCT W of Richmond	12.0'	13.1'		25.1'
Elk Point 5										SEE				
JCT 🗐 6 →										INTERSECTION ADVANCE SIGNING {TYPICAL} SHEET				
E 0	M1-5	2.00X 2.00			16' R	EAST	1 [PT]							
50	M5-1	1.75X 1.25												
F														
WEST	M3-4	2.00X 1.00	2.0		16' R	EAST					14	.7'	14.7'	
50	M1-5	2.00X 2.00	4.0											
P	M5-1	1.75X 1.25	2.2											
JCT	M2-1	1.75X 1.25	2.2		16' R	EAST	1 [PT]				13	3.3'	13.3'	
11	M1-5	2.00X 2.00	4.0											
ш.														
STOP AHEAD	W3-1	4.00X 4.00			16' R	EAST		1 [PT]	1	RESET EXISTING SIGN ON NEW SUPPORT	14	l.9'		14.9'
										SUPPORT TELESCOPED TO BOTTOM OF SIGN				
11 50	M1-5	2.00X 2.00			16' R	NORTH	1 [W]							
11 50	M6-1	1.75X 1.25												
	M1-5	2.00X 2.00	in.											
	M6-1	1.75X 1.25								REPLACE THE ASSEMBLY IN THE NORTHWEST				
SOUTH WEST	M3-3	2.00X 1.00	2.0		16' R	NORTH				QUADRANT OF THE INTERSECTION	13	3.5'		13.5'
	M1-5	2.00X 2.00	4.0											
11 50	M6-1	1.75X 1.25	2.2											
	M3-4	2.00X 1.00	2.0											
\leftarrow	M1-5	2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2				4 50.00	<u> </u>		WESTBOUND ON ODES				
↑ 319 St ← SD 11 SD 50 →	D1-3	5.00X 3.00				EAST	1 [2PT]			WESTBOUND ON SD50				
	D4.0	F 00V 2 00				NODTU	1 1007			SOUTHBOUND ON SD50 at JUNCTION				
↑ SD 11 ← SD 50 319 St →	D1-3	5.00X 3.00				NORTH	1 [2PT]			300 IUDOOM ON 2020 AL JONG HON				
	D1-2	6.00X 2.50				SOUTH	1 [2PT]	 		NORTHBOUND ON SD11 at JUNCTION				
← 319 St SD 50	D1-2	0.00∧ ∠.50				300111	1 [271]			MONTHEODIAD ON SETT ALBUNCTION				
													1	
TOTALS THIS SH	EET	ı	48.3	0.0			7	1	1				28.0	53.5
		EA TOTAL O	<u> </u>	16.0			14	8	8				56.0	201.6
YAN	VI ON AR	EA TOTALS	149.4	10.0			14	0	O				50.0	201.0

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	16	37

												PO	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PO	ST	SIZE/QUA	NTITY (Ft)
DESCRIPTION	SIGN	SIZE	(Sc	qFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS X	2.0"x2.0"	2.5"x2.5
	CODE	(Ft)	Type IV	TYPEXI	(L)EFT			RESET∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										US18 MRM 355.86				
1	D1-2a	10.50X 3.00			16' R	EAST		1 [2PT]	1	FACING WEST AT US281 SOUTH OF ARMOUR				
← Lake Andes 17 Armour 5 →										SEE				
Alliour 5 7										INTERSECTION ADVANCE SIGNING (TYPICAL) SHEET				
18	M1-4	2.00X 2.00			16' R	EAST	1 [PT]							
18	M5-1	1.75X 1.25												
														
WEST	M3-4	2.00X 1.00	2.0		16' R	EAST					14	.7'	14.7'	
[18]	M1-4	2.00X 2.00	4.0											
4	M5-1	1.75X 1.25	2.2											
		. = = = =			101.5						- 10	01	10.01	
JCT	M2-1	1.75X 1.25	2.2		16' R	EAST	1 [PT]				13	.3' I	13.3'	
[281]	M1-4	2.50X 2.00	5.0											
STOP AHEAD	W3-1	4.00X 4.00		16.0	16' R	EAST	1 [PT]			SUPPORT TELESCOPED TO BOTTOM OF SIGN	14	.9'		14.9'
WEST	M3-4	2.00X 1.00			16' R	EAST		1 [PT]						
WEST	M1-4	2.00X 2.00						1 [PT]						
1 18 (281)	M6-1	1.75X 1.25						1 [PT]						
	M1-4	2.50X 2.00						1 [PT]						
←	M6-4	1.75X 1.25					1 [PT]			REPLACE THE ASSEMBLY IN THE NORTHWEST				
	M3-4	2.00X 1.00			16' R	EAST			1 [PT]	QUADRANT OF THE INTERSECTION.	13	.5'		13.5'
	M1-4	2.00X 2.00							1 [PT]	REMOVE AND RESET THE INDICATED EXISTING				
WEST SOUTH NORTH	M6-1	1.75X 1.25							1 [PT]	SIGNS IN TO THE NEW ASSEMBLY.				
	M3-3	2.00X 1.00	2.0							INCORPORATE THE EXISTING SUPPORT				
18 281 281	M1-4	2.50X 2.00							1 [PT]	INTO THE NEW ASSEMBLY.				
← ← →	M6-1 M3-1	1.75X 1.25 2.00X 1.00	2.2	-										
	M1-4	2.50X 1.00 2.50X 2.00	5.0	1										
	M6-1	1.75X 1.25	2.2	1										
		1.1 5/(1.20												
	 													
														
	1		1				Ì							
TOTALS THIS SHE	FT	-	28.8	16.0			4	5	5				28.0	28.4

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

^{▼ -}Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH			SHEETS
DAKOTA	PH 0020(213)	17	37

					1711	OHE		<u> </u>	1011	IABLL				
		1	1	DATA	II.	1		1			<u> </u>	PO	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	OST	SIZE/QUAI	NTITY (Ft)
DESCRIPTION	SIGN	SIZE	(Sc	qFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS X	2.0"x2.0"	2.5"x2.5"
	CODE	(Ft)	Type IV	TYPEXI	(L)⊞T		SIGN ∞	RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										SD37 MRM 95.64				
rr	SPECIAL	3.00X 2.50			16' R	SOUTH	1 [PT]			FACING NORTH AT SD34 W of Artesian				
										SIGNING AND MARKING-SD37 AT MRM 95.64 SHEET				
RIGHT LANE MUST TURN RIGHT	R3-7R	2.50X 2.50	6.3		16' R	SOUTH				INSTALL178' IN ADVANCE OF STOP BAR	12	2.0' 	12.0'	
◆ Woonsocket	D1-3	9.00X 4.00			16' R	SOUTH		1 [2PT]	1					
← Huron Howard														
	M1-5	2.00X 2.00			16' R	SOUTH	1 [PT]							
37 34	M5-1	1.75X 1.25												
← ↔	M1-5	2.00X 2.00												
₩ ↔	M6-4	1.75X 1.25												
NORTH	M3-1	2.00X 1.00	2.0		16' R	SOUTH	1 [PT]				14	ŀ.7'	14.7'	
37	M1-5	2.00X 2.00	4.0											
4	M5-1	1.75X 1.25	2.2											
STOP AHEAD	W3-1	4.00X 4.00			16' R	SOUTH		1 [PT]	1	RESET EXISTING SIGN ON NEW SUPPORT SUPPORT TELESCOPED TO BOTTOM OF SIGN	14	l.9' 		14.9'
RIGHT LANE MUST TURN RIGHT	R3-7R	2.50X 2.50	6.3		16' R	SOUTH					12	2.0'	12.0'	
JCT	M2-1	1.75X 1.25			16' R	SOUTH		1 [PT]	1		13	3.3'	13.3'	
34	M1-5	2.00X 2.00												
RIGHT LANE MUST TURN RIGHT	R3-7R	2.50X 2.50	6.3		16' R	SOUTH					12	2.0'	12.0'	
	M1-5	2.00X 2.00			16' R	SOUTH		1 [PT]						
37 34	M6-1	1.75X 1.25	-					1 [PT]						
	M1-5	2.00X 2.00						1 [PT]		REPLACE THE ASSEMBLY IN THE NORTHEAST				
←	M6-4	1.75X 1.25								QUADRANT OF THE INTERSECTION.				
	M3-4	2.00X 1.00	2.0		16' R	SOUTH				REMOVE AND RESET THE INDICATED EXISTING	13.5'	13.5'		27.0'
WEST NOT NOT NOT NOT NOT NOT NOT NOT NOT NO	M1-5	2.00X 2.00							1	SIGNS IN TO THE NEW ASSEMBLY.	1			
WEST NORTH EAST	M6-1	1.75X 1.25							1		1			
34 37 34	M3-1	2.00X 1.00	2.0								1			
	M1-5	2.00X 2.00							1		1			
\leftarrow	M6-1	1.75X 1.25	2.2								1			
	M3-2	2.00X 1.00	2.0								1			
	M1-5	2.00X 2.00	4.0								1			
	M6-1	1.75X 1.25	2.2				_						-	1
TOTALS THIS SHE	ET		41.5	0.0			3	6	6				64.0	41.9
·														

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

∞-Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

SHEET 2 OF 9

Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	18	37

					IVII	CIIL		ILA 3	IGN	IADLE					
		1	1	DATA	1		1	l '			<u> </u>	OUTSIDE TUBE TUB 632E1320 632E13			
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	ST	SIZE/QUAI	VTITY (Ft)	
DESCRIPTION	SIGN	SIZE	(Sc	qFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS 🗶	2.0"x2.0"	2.5"x2.5"	
	CODE	(Ft)	Type IV	TYPEXI	(L)EFT		SIGN ∞	RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE	
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340	
										SD38P MRM 303.89					
← Mitchell 3	D1-1a	6.50X 1.50			16' R	SOUTH		1 [PT]	1	FACING NORTH AT SD38 E of Mitchell				1	
										SEE				1	
										INTERSECTION ADVANCE SIGNING {TYPICAL} SHEET					
JCT	M2-1	1.75X 1.25	-		16' R	SOUTH		1 [PT]	1					1	
38	M1-5	2.00X 2.00													
STOP AHEAD	W3-1	4.00X 4.00			16' R	SOUTH		1 [PT]	1	RESET EXISTING SIGN ON NEW SUPPORT	14	.9'		14.9'	
										TELESCOPED TO BOTTOM OF SIGN					
WEST EAST	M3-4	2.00X 1.00	2.0		16' R	SOUTH					13	.5'		13.5'	
	M1-5	2.00X 2.00	4.0							INSTALL THE ASSEMBLY IN THE NORTHEAST				1	
38 38	M6-1	1.75X 1.25	2.2							QUADRANT OF THE INTERSECTION				1	
	M3-2	2.00X 1.00	2.0											1	
\leftarrow	M1-5	2.00X 2.00	4.0											1	
	M6-1	1.75X 1.25	2.2												
														ĺ	
														ĺ	
														1	
														ł	
											<u> </u>				
															
							<u> </u>								
				<u> </u>											
TOTALS THIS SH	EET	l	16.4	0.0			0	3	3				0.0	28.4	
UIALS INIS SHEET		10.4	0.0			l ^o	3	J				0.0	20.4		

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

^{▼ -}Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL
SOUTH DAKOTA	PH 0020(213)	19	37

								ILA 3						
	T		SIGN	DATA			•					PO	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	ST	SIZE/QUA	NTITY {Ft}
DESCRIPTION	SIGN	SIZE	(Sc	ηFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS 🗶	2.0"x2.0"	2.5"x2.5'
	CODE	(Ft)	Type IV	TYPEXI	(L)EFT		SIGN ∞	RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										SD 42 MRM 333.06				
	D1-3	7.00X 3.50	24.5		16' R	WEST	4 [ODT]			FACING FACT AT UC 04 F of Deidenmater	12.0'	14.1'		27.1'
↑ Sioux Falls ← Salem	D1-3	7.00× 3.50	24.5		10 K	WEST	1 [2PT]			FACING EAST AT US 81 E of Bridgewater SEE	13.0	14.1		27.1
Freeman →										INTERSECTION ADVANCE SIGNING (TYPICAL) SHEET				
EAST	M3-2	2.00X 1.00	2.0		16' R	WEST	1 [PT]			,	14	.7'	14.7'	
	M1-5	2.00X 2.00	4.0				' '							
42	M6-3	1.75X 1.25	2.2											
1														
JCT	M2-1	1.75X 1.25	2.2		16' R	WEST	1 [PT]				13	.3'	13.3'	
JCT 81	M1-4	2.00X 2.00	4.0											
STOP AHEAD	W3-1	4.00X 4.00		16.0	16' R	WEST	1 [PT]			SUPPORT TELESCOPED TO BOTTOM OF SIGN	14	.9'		14.9'
					101.5					FACING WEST AT US 81 E of Bridgewater	40.01	44.41		07.41
↑ Bridgewater	D1-3	7.00X 3.50	24.5		16' R	EAST	1 [2W]				13.0'	14.1'		27.1'
← Freeman Salem →										SEE INTERSECTION ADVANCE SIGNING {TYPICAL} SHEET				
WEST	M3-4	2.00X 1.00	2.0		16' R	EAST	1 [W]			INTERCED HOR THE WAVE CICAMING (THE HOTE) CHEET	14	.7'	14.7'	
	M1-5	2.00X 2.00	4.0											
42	M6-3	1.75X 1.25	2.2											
•														
JCT	M2-1	1.75X 1.25	2.2		16' R	EAST	1 [W]				13	.3'	13.3'	
81	M1-4	2.00X 2.00	4.0											
STOP AHEAD	W3-1	4.00X 4.00		16.0	16' R	EAST	1 [W]			SUPPORT TELESCOPED TO BOTTOM OF SIGN	14	.9'		14.9'
OTALS THIS SH	CCT		77.8	32.0			8	0	0				56.0	84.0

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

∞-Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

SHEET 4 OF 9

^{▲ -}Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	20	37

									IGN					
			SIGN	DATA								PO	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	ST	SIZE/QUA	NTITY {Ft}
DESCRIPTION	SIGN	SIZE	(Sc	qFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS 🗶	2.0"x2.0"	2.5"x2.5"
	CODE	(Ft)	Type IV	TYPEXI	(L)EFT		SIGN ∞	RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										SD44 MRM 395.83				
← Hurley 6	D1-2a	6.00X 2.50	15.0		16' R	EAST	1 [PT]			FACING WEST AT SD19 SE of Parker	12.0'	12.9'		24.9'
Parker 2 →										SEE				
raikei Z -y										INTERSECTION ADVANCE SIGNING {TYPICAL} SHEET				
44	M1-5	2.00X 2.00			16' R	EAST	1 [W]							
F	M5-1	1.75X 1.25												
WEST	M3-4	2.00X 1.00	2.0		16' R	EAST					14	.7'	14.7'	
44	M1-5	2.00X 2.00	4.0											
	M5-1	1.72X 1.25	2.2		101.5									
JCT	M2-1	1.75X 1.25	_		16' R	EAST		1 [W]	1	RESET EXISTING SIGNS ON NEW SUPPORT	13	.3'	13.3'	
19	M1-5	2.00X 2.00						1 [W]	1					
STOP AHEAD	W3-1	4.00X 4.00			16' R	EAST		1 [W]	1	RESET EXISTING SIGN ON NEW SUPPORT	14	.9'		14.9'
										TELESCOPED TO BOTTOM OF SIGN				
10 44	M1-5	2.00X 2.00			16' R	EAST	1 [W]							
19 44	M6-4	1.75X 1.25												
\leftrightarrow	M1-5	2.00X 2.00												
	M6-1	1.75X 1.25								REPLACE THE ASSEMBLY IN THE NORTHWEST				
	M3-3	2.00X 1.00	2.0		16' R	EAST				QUADRANT OF THE INTERSECTION	13.5'	13.5'		27.0'
SOUTH NORTH WEST	M1-5	2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2											
19 19 44	M3-1	2.00X 1.00	2.0											
$\leftarrow \rightarrow \rightarrow$	M1-5 M6-1	2.00X 2.00 1.75X 1.25	4.0 2.2											
	M3-4	2.00X 1.00	2.0											
	M1-5	2.00X 1.00 2.00X 2.00	4.0	1										
	M6-1	1.75X 1.25	2.2											
							1							

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

∞-Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

SHEET 5 OF 9

Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	21	37

						. •				IADLL				
			SIGN	DATA								PO	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	OST	SIZE/QUAI	NTITY (Ft)
DESCRIPTION	SIGN	SIZE	(Sc	qFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS 🗶	2.0"x2.0"	2.5"x2.5'
	CODE	(Ft)	Type IV	TYPEXI	(L)EFT			RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										SD50 MRM 273.42				
← Platte 10	D1-2a	6.50X 2.50	16.3		16' R	NORTH	1 [2PT]			FACING SOUTH AT SD44 W of Platte	12.0'	13.0'		25.0'
JCT 47 21 →										SEE				
301 11 21 7										INTERSECTION ADVANCE SIGNING {TYPICAL} SHEET				
50	M1-5	2.00X 2.00			16' R	NORTH	1 [PT]							
	M5-1	1.75X 1.25												
4														
EAST	M3-2	2.00X 1.00	2.0		16' R	NORTH					13	3.8' I	13.8'	
50	M1-5	2.00X 2.00	4.0											
	M5-1	1.75X 1.25	2.2		101.5									
JCT	M2-1	1.75X 1.25			16' R	NORTH		1 [PT]	1					
44	M1-5	2.00X 2.00												
STOP AHEAD	W3-1	4.00X 4.00			16' R	NORTH		1 [PT]	1	RESET EXISTING SIGN ON NEW SUPPORT	14	.9'		14.9'
										SUPPORT TELESCOPED TO BOTTOM OF SIGN				
	M1-5	2.00X 2.00			16' R	NORTH	1 [PT]							
50 44	M6-1	1.75X 1.25												
$\leftarrow \leftrightarrow$	M1-5	2.00X 2.00												
	M6-4	1.75X 1.25								REPLACE THE ASSEMBLY IN THE SOUTHWEST				
	M3-2	2.00X 1.00	2.0		16' R	NORTH				QUADRANT OF THE INTERSECTION	13.5'	13.5'		27.0'
	M1-5	2.00X 2.00	4.0											
EAST EAST WEST	M6-1	1.75X 1.25	2.2											
44 50 44	M3-2	2.00X 1.00	2.0											
	M1-5	2.00X 2.00 1.75X 1.25	4.0 2.2											
\leftarrow	M6-1 M3-4	2.00X 1.00	2.2											
	M1-5	2.00X 1.00 2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2											
TOTALS THIS SHE	EET		49.1	0.0			3	2	2				13.8	66.9

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

∞-Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

SHEET 6 OF 9

Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	22	37

						. •				IADEL				
			SIGN	DATA								PO	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	OST	SIZE/QUAI	NTITY {Ft}
DESCRIPTION	SIGN	SIZE	(Sc	qFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS X	2.0"x2.0"	2.5"x2.5"
DEGOTAL FIGH	CODE	(Ft)	Type IV		(L)EFT	TAGEG		RESET ∞		O O IVIIVILITYI O		OUTSIDE	TUBE	TUBE
	0022	(1.1)		632E3205				110E7150			IIVOIDE	COTOBE	632E1320	
	-		002200	002202					0022000				0022.020	00227070
										CD202 MDM 52 00				
										SD203 MRM 53.00 FACING SOUTH AT SD258 E of Plankinton				
CTOD ALIEAD	VA/O 4	2 00 / 2 00		0.0	16' R	NODTU				SEE	10	7'		10.71
STOP AHEAD	W3-1	3.00X 3.00		9.0	10 K	NORTH				INTERSECTION ADVANCE SIGNING {TYPICAL} SHEET	13). <i>1</i> 		13.7'
										INTERSECTION ADVANCE SIGNING (TYPICAL) SHEET	<u> </u>			
										00000 MDM 050 40				
										SD258 MRM 279.48				
	110.1	. ==>/ =			401.5			4.55		510N0 5105 17 U000 1 5 1 5 1 1 1 1	<u> </u>			
JCT	M2-1	1.75X 1.25			16' R	WEST		1 [PT]	1	FACING EAST AT US281 E of Plankinton				
[281]	M1-4	2.50X 2.00								SEE				
	1410 1	1001/100			401.0			4.55		INTERSECTION ADVANCE SIGNING {TYPICAL} SHEET	<u> </u>			
STOP AHEAD	W3-1	4.00X 4.00			16' R	WEST	4.55	1 [PT]	1		<u> </u>			
281	M1-4	2.50X 2.00					1 [PT]							
↔	M6-4	1.75X 1.25								DEDLACE THE ACCEMBLY IN THE COUTHEACT				
	110.1	2 22 4 2 2						ļ		REPLACE THE ASSEMBLY IN THE SOUTHEAST				10.51
NORTH SOUTH	M3-1	2.00X 1.00	2.0							QUADRANT OF THE INTERSECTION	13	3.5' I		13.5'
	M1-4 M6-1	2.50X 2.00 1.75X 1.25	5.0 2.2											
281 281	M3-3	2.00X 1.00	2.0											
	M1-4	2.50X 1.00 2.50X 2.00	5.0											
	M6-1	1.75X 1.25	2.2											
	1010 1	1.70% 1.20	2.2											<u> </u>
														<u> </u>
														1
														
														
														
	 													
	 		<u> </u>				1				<u> </u>			
	 		 					 						
	 		 	-			-	 						+
	<u> </u>										 			
	<u> </u>													
														
	<u> </u>													<u> </u>
	<u> </u>													
	<u></u>		46.4	0.0					-				0.0	07.0
TOTALS THIS SH	<u>:El</u>		18.4	9.0			1	2	2				0.0	27.2
 	<u> </u>		1 (0:			Dlanna		ra aatimaata		t langetha will be field verified by the Contractor				

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

^{▼ -}Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	23	37

										IADEL				
	SIGN DATA SIGN SIGN AREA OFFSET* SIGN REMOVE REMO											РО	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	OST	SIZE/QUAI	NTITY {Ft}
DESCRIPTION	SIGN	SIZE	(Sc	qFt)	(R)IGHT/	FACES	TRAFFIC	SIGN FOR	SIGN	COMMENTS	LENG	THS X	2.0"x2.0"	2.5"x2.5'
BEGOTTII FIOR	CODE	(Ft)	Type IV		(L)EFT	17.020		RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E134
										US 281 MRM 96.17				
	M3-4	2.00X 1.00	2.0			SOUTH				FACING NORTH AT SD34 W of Lane	13.5'	13.5'	27.0'	
	M1-5	2.00X 2.00	4.0											
WEST NORTH EAST	M6-1	1.75X 1.25	2.2							SEE				
	M3-1	2.00X 1.00	2.0							INTERSECTION ADVANCE SIGNING (TYPICAL) SHEET				
34 281 34	M1-4	2.50X 2.00	5.0											
← ↑ →	M6-3	1.75X 1.25	2.2							INSTALL ASSEMBLY IN THE NORTHEAST				
	M3-2	2.00X 1.00	2.0							QUADRANT OF THE INTERSECTION				
	M1-5	2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2											<u> </u>
281 34	M1-4	2.50X 2.00			16' R	SOUTH		1 [PT]						
281 34	M6-3	1.75X 1.25						1 [PT]						
↑	M1-5	2.00X 2.00						1 [PT]						
-	M6-4	1.75X 1.25									40.01	44.01		
	M3-4	2.00X 1.00	2.0			SOUTH			•		13.8'	14.8'	28.6'	
	M1-5	2.00X 2.00							1	ASSEMBLE ON NEW SUPPORTS WITH NEW AND RESET SIGNS				
WEST NORTH EAST	M5-1 M3-1	1.75X 1.25 2.00X 1.00	2.2							WITH NEW AND NEGET GIGNO				
34 281 34	M1-4	2.50X 2.00	<u> </u>						1					
	M6-3	1.75X 1.25							1					
	M3-2	2.00X 1.00	2.0						**************************************					
	M1-5	2.00X 2.00	4.0											
	M5-1	1.75X 1.25	2.2											
JCT	M2-1	1.75X 1.25	2.2		16' R	SOUTH		1 [PT]	1					
34	M1-5	2.00X 2.00	4.0					-						
STOP AHEAD	W3-1	4.00X 4.00		16.0	16' R	SOUTH		1 [PT]	1	INSTALL EXISTING SIGN ON NEW SUPPORT SUPPORT TELESCOPED TO BOTTOM OF SIGN	14	l I.9' I		14.9'
										23. 7 S. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.				
TOTALS THIS SHE	ET		46.2	16.0			0	5	5				55.6	14.9

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

∞-Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

SHEET 8 OF 9

Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	24	37

			OLON	DATA		<u> </u>				IADLL		D0	OT DATA	
	1	1	1	DATA	1		ı	1 :				ſ	ST DATA	
		SIGN	SIGN	AREA	OFFSET*	SIGN	REMOVE	REMOVE	RESET		PC	DST	SIZE/QUA	NTITY {Ft}
DESCRIPTION	SIGN	SIZE	(Sc	qFt)	(R)IGHT/	FACES		SIGN FOR	SIGN	COMMENTS	LENG	THS X	2.0"x2.0"	2.5"x2.5"
	CODE	(Ft)	Type IV		(L)EFT			RESET ∞			INSIDE	OUTSIDE	TUBE	TUBE
			632E3203	632E3205			110E0130	110E7150	632E3500				632E1320	632E1340
										US 281 MRM 96.17				
I	M3-2	2.00X 1.00	2.0			NORTH				FACING SOUTH AT SD34 W of Lane	13.5'	13.5'	27.0'	
	M1-5	2.00X 2.00	4.0											
EAST SOUTH WEST	M6-1	1.75X 1.25	2.2							SEE				
	M3-3	2.00X 1.00	2.0							INTERSECTION ADVANCE SIGNING (TYPICAL) SHEET				
34 281 34	M1-4	2.50X 2.00	5.0											
	M6-3	1.75X 1.25	2.2							INSTALL ASSEMBLY IN THE SOUTHWEST				
← ↑ →	M3-4	2.00X 1.00	2.0							QUADRANT OF THE INTERSECTION				
	M1-5	2.00X 2.00	4.0											
	M6-1	1.75X 1.25	2.2								40.01			07.5
↑ TO 10 26 ← Woonsocket 9 Wessington Springs 9 →	D1-3a	10.00X 3.50			16' R	NORTH		1 [3PT]	1		13.0'	14.5'		27.5'
	M1-4	2.50X 2.00			16' R	NORTH		1 [PT]		INTERSECTION	14	.7'	14.7'	
281 34	M6-3	1.75X 1.25						1 [PT]	***************************************					
A	M1-5	2.00X 2.00						1 [PT]						
1	M6-4	1.75X 1.25												
	M3-2	2.00X 1.00	2.0			NORTH					13.8'	14.8'	28.6'	
	M1-5	2.00X 2.00							1	ASSEMBLE ON NEW SUPPORTS				
EAST SOUTH WEST	M6-1	1.75X 1.25	2.2							WITH NEW AND RESET SIGNS				
24 201 24	M3-3	2.00X 1.00	2.0											
34 281 34	M1-4	2.50X 2.00							1					
4 1	M6-3	1.75X 1.25							1					
T I'	M3-4	2.00X 1.00	2.0											
	M1-5	2.00X 2.00	4.0											
LOT	M6-1	1.75X 1.25	2.2		16! D	NODTU		4 (57)	4		4.0		40.01	
JCT	M2-1	1.75X 1.25	2.2		16' R	NORTH		1 [PT]	1		13	3.3' I	13.3'	
34	M1-5	2.00X 2.00	4.0											
STOP AHEAD	W3-1	4.00X 4.00			16' R	NORTH		1 [PT]	1	INSTALL EXISTING SIGN ON NEW SUPPORT SUPPORT TELESCOPED TO BOTTOM OF SIGN	14	.9'		14.9'
TOTALS THIS SHI	<u> </u> EET		46.2	0.0			0	6	6				83.6	42.4
		REA TOTALS		73.0			22	32	32				329.0	400.9
PROJEC			755.7	121.0			51	43	43				480.1	864.2
							<u> </u>							

^{* -} Distance from edge of shoulder or back of curb to edge of Sign.

Number and type of support(s) - {W}ood {#W}-(#) Wood (#)PT}-(#)Perforated Tube

SHEET 9 OF 9

Plan post lengths are estimates. The post lengths will be field verified by the Contractor.

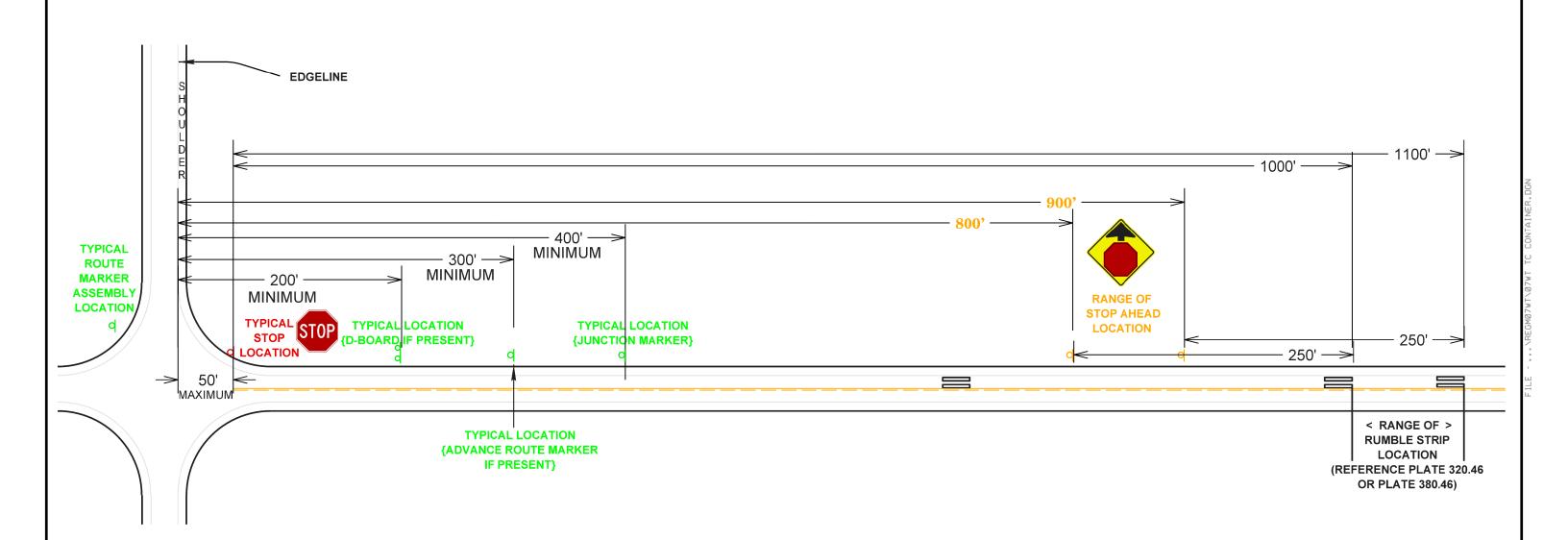
 STATE OF SOUTH DAKOTA
 PROJECT
 SHEET
 TOTAL SHEETS

 PH 0020(213)
 25
 37

Plotting Date: 01/13/2021

INTERSECTION ADVANCE SIGNING

 $\{TYPICAL\}$



NOTES:

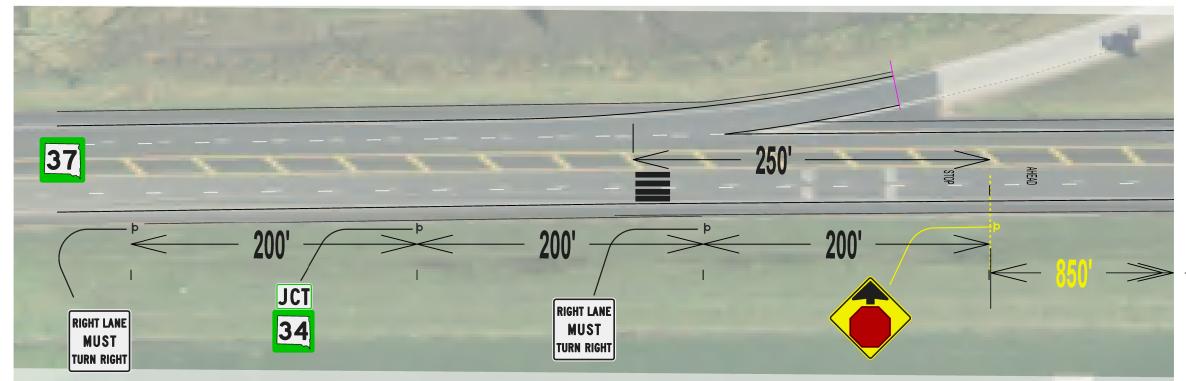
ANY ADDITIONAL SIGN ASSEMBLIES FACING TRAFFIC APPROACHING
THE INTERSECTION WILL BE INSTALLED IN ADVANCE OF THE JUNCTION MARKER
ASSEMBLY WHILE MAINTAINING 200' MINIMUM SPACING, INCLUDING IN
ADVANCE OF AND AFTER THE STOP AHEAD SIGN LOCATION.

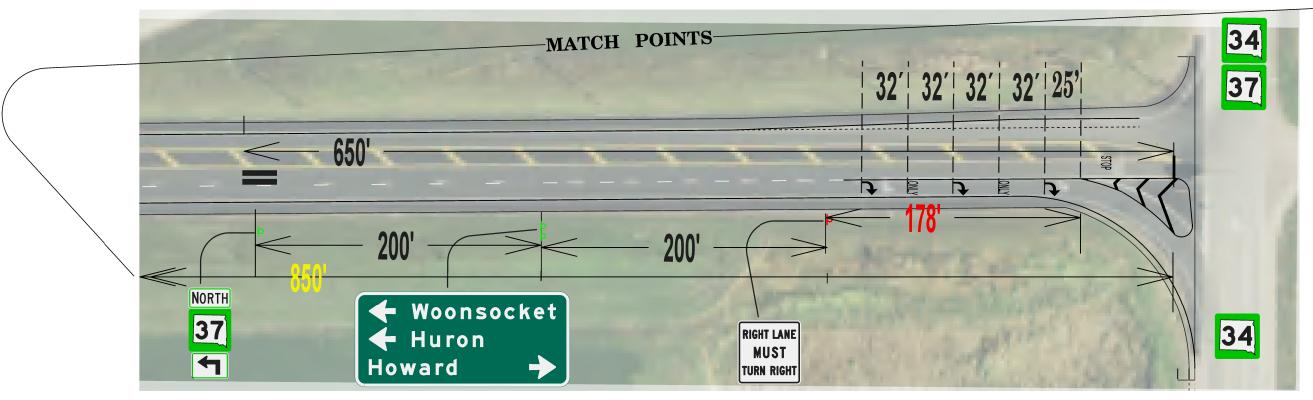
GUIDE SIGN SPACING WILL BE ALTERED TO PROVIDE ADEQUATE SPACING AT ANY EXISTING NO PASSING ZONE SIGNS.

SIGNING AND MARKING

SD 37 AT MRM 95.64







KEY:

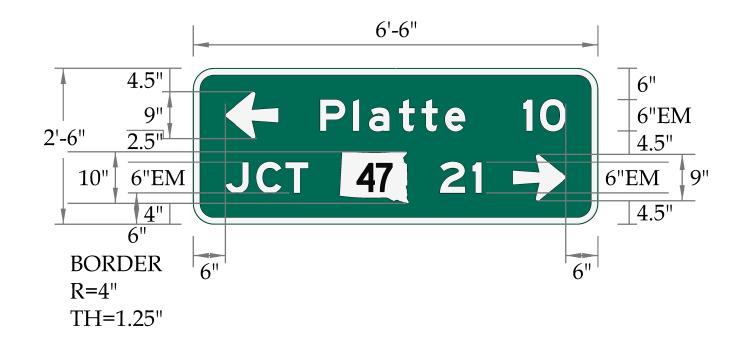
- PREFORMED THERMOPLASTIC PAVEMENT MARKING, ARROW

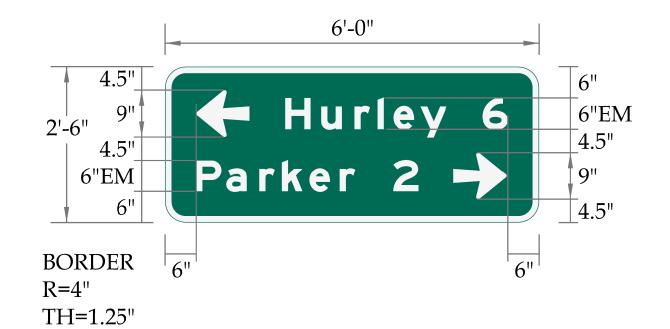
AHEAD STOP ONLY- PREFORMED THERMOPLASTIC PAVEMENT MARKING, MESSAGE

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH		_	
DAKOTA	PH 0020(213)	27	37

Plotting Date: 01/12/2021

FLAT ALUMINUM SIGNS WITH NONREMOVABLE COPY

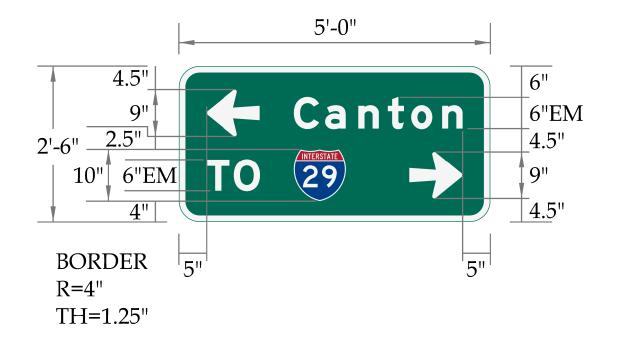


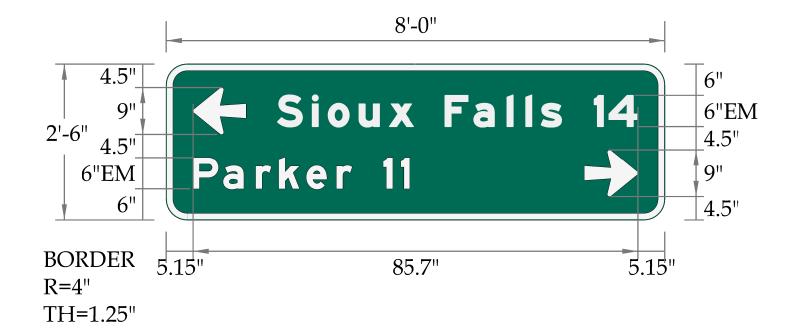


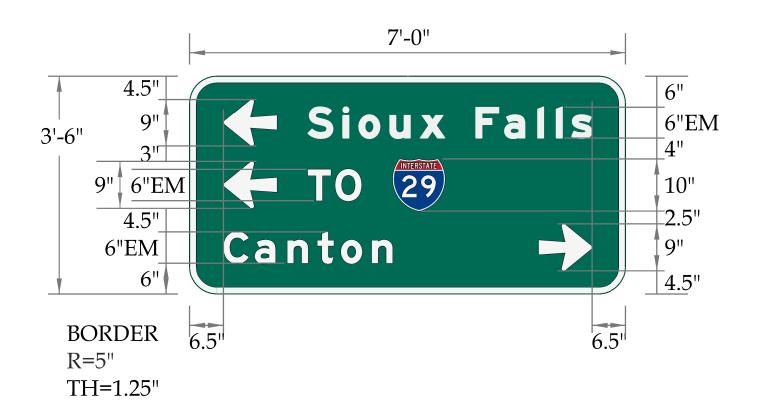


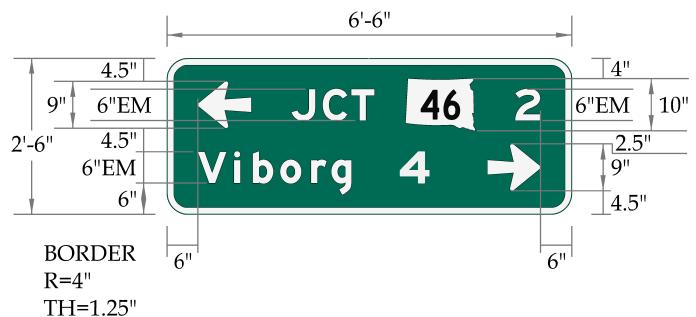
Plotting Date: 01/12/2021

FLAT ALUMINUM SIGNS WITH NONREMOVABLE COPY



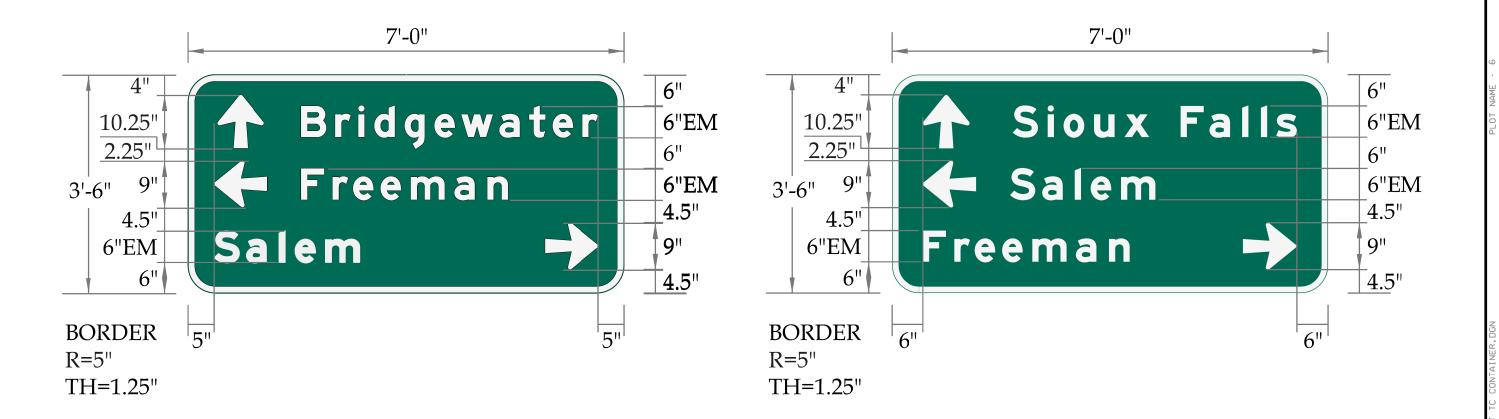






Plotting Date: 01/12/2021

FLAT ALUMINUM SIGNS WITH NONREMOVABLE COPY





TYPICAL SIGN INSTALLATIONS

SOUTH DAKOTA	PH 0020(213)

STATE OF

Plotting Date: 01/12/2021

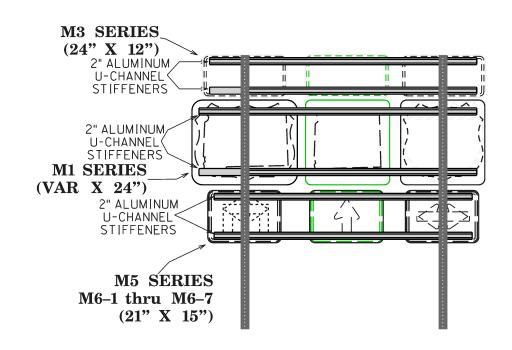
SHEET

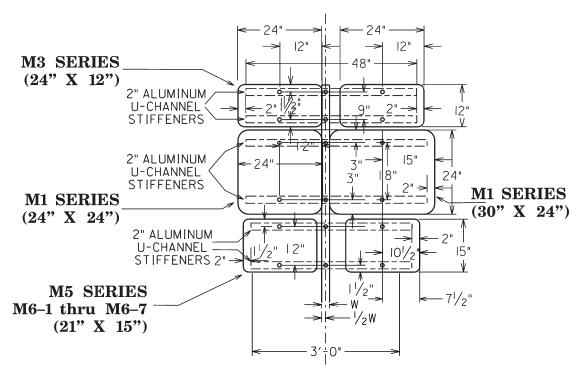
30

TOTAL SHEETS

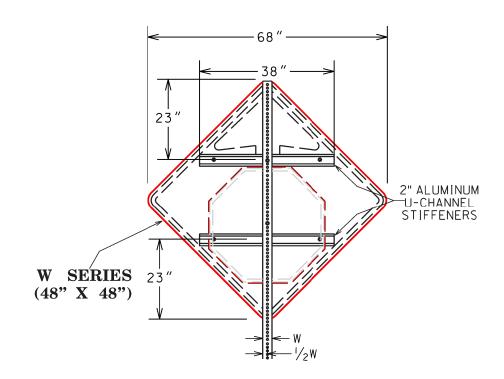
37

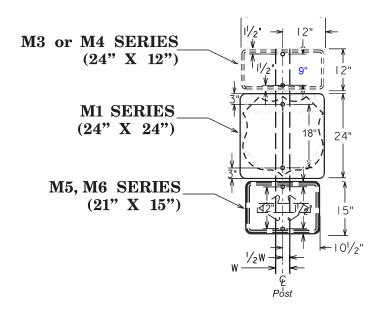
PERFORATED TUBE SUPPORTS





W/ALUMINUM CHANNEL BACKING {TYPICAL OF FASTENER LOCATIONS IN ANY MOUNTING CONFIGURATION}





SINGLE POST BREAKAWAY SIGN SUPPORT

(Typical Sign and Stiffener Details)

12'- 0" (mîn.)

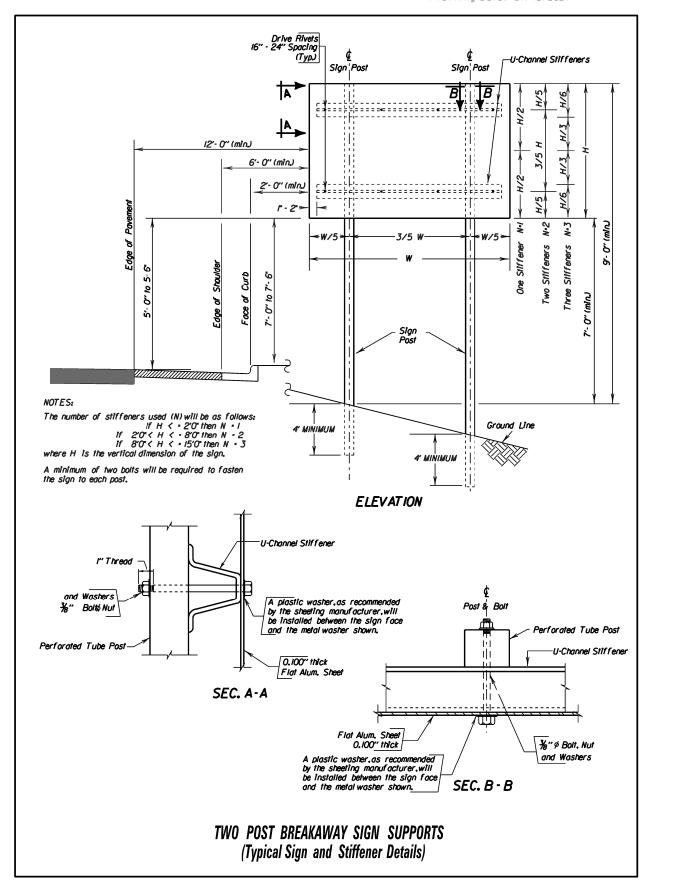
Drive Rivets 16" - 24" Spacing

Sign Post

- U-Channel Stiffeners

| STATE OF | SOUTH | DAKOTA | PH 0020(213) | SHEET | TOTAL | SHEETS | 31 | 37

Plotting Date: 01/12/2021



STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PH 0020(213)	32	37

Plotting Date: 01/13/2021

Typical Perforated Tube Support-Slip Base with Winged Anchor

TOP POST RECEIVER for 12"- SQUARE POST*

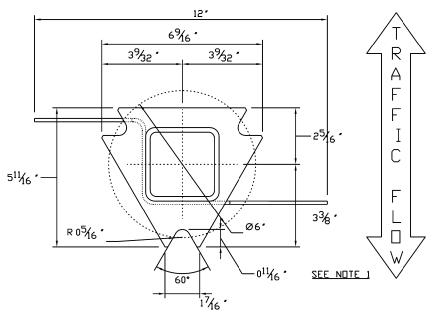
SEE NOTE 7 1/2"-13 GR. 8 REDI-TORQUE BOLT SEE NOTES 3-6 1/2"-13 USS FLAT WASHER-HARDENED, TEFLON COATED WASHER SHIM-SEE NOTE 2 1/2'-13 USS FLAT WASHER-₩ 1/2"-13 GR. 8 SERRATED LARGE FLANGE NUT-3/6. √3%. 15* 25" SEE NOTES 1 & 2

65% SEE NOTE 4 R A F F T C T R A F F T C T R A F F T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T C T R A F F T C T R A F F T C T R A F F T C T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F T R A F F R A F F R A F R A F F R A F R A F F R A F R

MATERIAL: <u>Single Piece Cast Receiv**e**r</u>2-½" × 2-½" <u>and Plate</u>- DUCTILE IRON

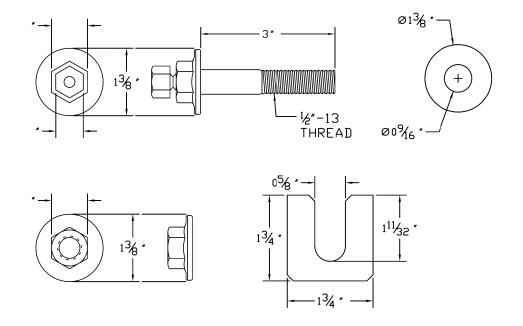
- * 2-14" X 12 GA. MAY BE INSERTED INTO 26" X 12 GA. FOR ADDITIONAL WINDLOAD.
- 2-¾6" X 10 GA. MAY BE INSERTED INTO 2½" X 10 GA. FOR ADDITIONAL WINDLOAD.

BOTTOM UNIBASE SOIL STUB



MATERIALS: <u>Tube</u> - 3' x 3' x 7 ga. ASTM A500 Grade B tube <u>Stabilizing Wing</u>- 7 ga. H.R.P.D. ASTM A 569 <u>Plate</u> - ASTM A572 grade 50

REDI-TORQUE MATCH PLATE HARDWARE



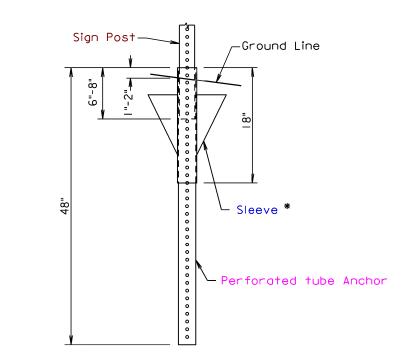
NOTES FOR INSTALLATION PROCEDURES

- INSTALL BOTTOM UNIBASE SOIL ANCHOR STUB PLUMB AND SQUARED UP WITH ROAD, WITH POINT OF PLATE FACING ONCOMING TRAFFIC.
- 2. DEPTH OF IMBEDMENT TO LEAVE 2-1/2" FROM GRADE TO TOP OF UNIBASE.
 3. PLACE 1 EACH TEFLON COATED WASHER SHIM ON EACH OF THE 3 NOTCHED POINTS, WITH THE OPEN SIDE FACING TOWARDS THE CENTER OF THE
- 4. PLACE TOP POST RECEIVER, SO THAT THE SIGN POST IS IN CORRECT POSITION FOR SIGN VISIBILITY, ON TO THE UNIBASE AND WASHER SHIMS.
- 5. PLACE 1 EACH ½" WASHER ONTO REDI-TORQUE BOLT AND PLACE IN EACH NOTCHED POINT OF THE TRIANGLE. PUSH EACH TEFLON COATED WASHER SHIM AGAINST THE SHANK OF EACH BOLT AND FINGER TIGHTEN ½" FLANGED LOCK NUT. SECOND ½" FLAT WASHER SHOULD BE PLACED BETWEEN FLANGE NUT AND UNDER SIDE OF BOTTOM SLIP PLATE.
- 6. FULLY TIGHTEN ALL THREE REDI-TORQUE BOLTS USING THE SMALLER %6" HEX HEAD UNTIL IT TWISTS OFF.
- *NOTE: SECONDARY (%" HEX) HEAD WILL TWIST OFF AT DESIRED TORQUE LEVEL TO MEET FEDERAL COMPLIANCE.
- 7. INSERT SIGN SUPPORT INTO THE TUBULAR PORTION OF TOP POST RECEIVER AND SECURE WITH A LOCKING WEDGE.
- *NOTE: WHERE HIGHER WINDLOAD IS DESIRED, INSERT THE NEXT SIZE
 SMALLER SQUARE POST INSIDE BOTTOM OF MAIN UPRIGHT POST
 *NOTE: ON MULTI-LEG INSTALLATIONS, BE SURE THAT ALL ANCHORS ARE
 - *NUTE: UN MULTI-LEG INSTALLATIONS, BE SURE THAT ALL ANCHOR: SQUARED AND LINED UP WITH EACH OTHER.

NDTE:

Ine piece slip base bottom/winged anchor shown. Engineer may approve equal.

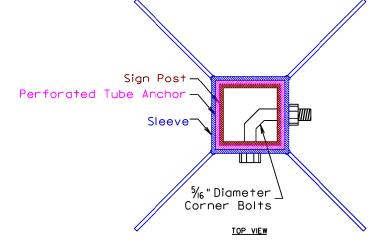
Plotting Date: 01/13/2021



* - 18" Omni-Directional Sleeve, or Equivalent.

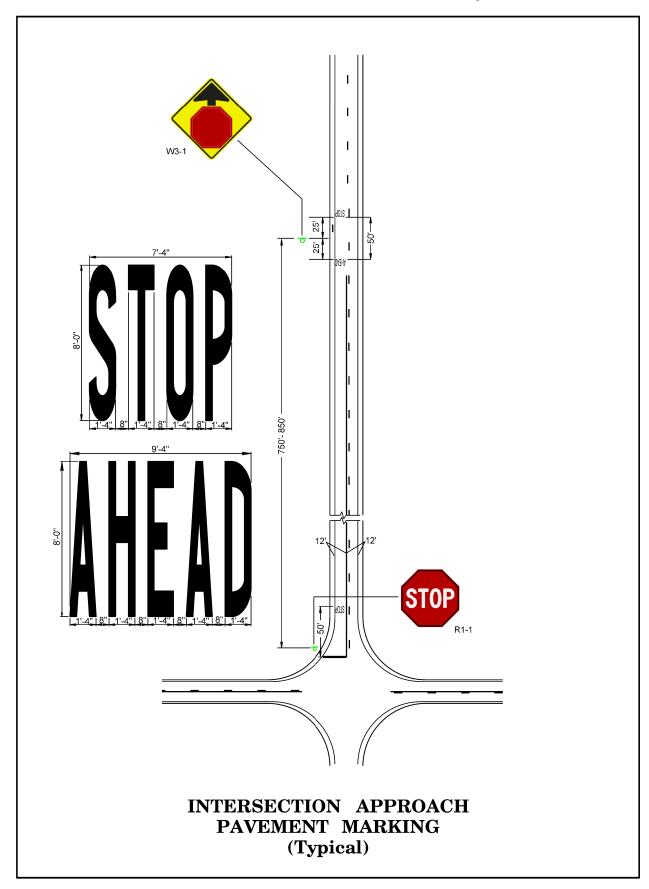
Manufacturer Recommended Dimensions and Installation.

POST SIZE		
Sign Post	2"	
Anchor	21/4"	
Sleeve	21/2"	



NOTE: Sign installations must meet or exceed NCHRP 350 or MASH breakaway requirements.

2" PERFORATED TUBE POST ANCHOR WITH WINGED SLEEVE (Typical)



Œ

Original Pavement Surface -

350'

See —/ Detail A

4'-0" 2'-0" 4'-0"

DETAIL A PLAN VIEW

(Not to Scale)

d № c

b

Edge of

Finished Shoulder

Depth

(ln.)

1/₁₆

5/32

SINUSOIDAL GRINDING

Location

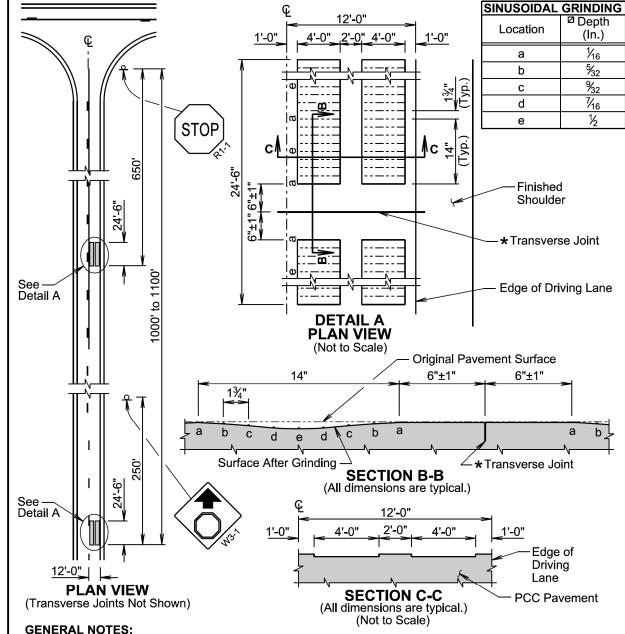
а

Driving

Lane

STATE OF PROJECT TOTAL SHEETS SHEET 34 37 PH 0020(213) DAKOTA

Plotting Date: 01/25/202



Transverse rumble strips will be constructed by grinding continuous sinusoidal indentations in the PCC pavement as approved by the Engineer. Diamond blades will be used with the grinding equipment.

- ★ The location of the transverse rumble strips will be adjusted longitudinally as necessary due to normal and skewed transverse joints. The adjustments will need Engineer approval prior to grinding.
- \blacksquare The sinusoidal transverse rumble strips construction grinding tolerance will be $\pm \frac{1}{16}$ inch.

Measurement of the sinusoidal transverse rumble strips will be to the nearest square foot. Payment for constructing the sinusoidal transverse rumble strips will be at the contract unit price per square foot for "Grind Sinusoidal Transverse Rumble Strip in PCC Pavement".

December 23, 2019

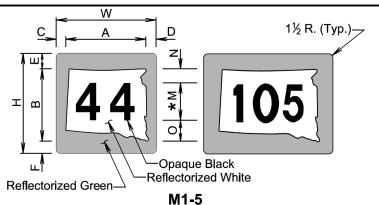
S D SINUSOIDAL TRANSVERSE RUMBLE STRIP D IN PCC PAVEMENT HIGHWAY ADJACENT TO STOP CONTROLLED INTERSECTION Published Date: 1st Qtr. 2021

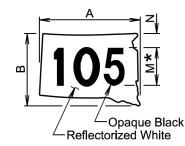
PLATE NUMBER 380.46

Sheet I of I

PROJECT STATE OF SHEET TOTAL SHEETS SOUTH 35 37 PH 0020(213)

Plotting Date: 01/25/2021





STG

AxB M**∗** N

24x18 | 10D | 4

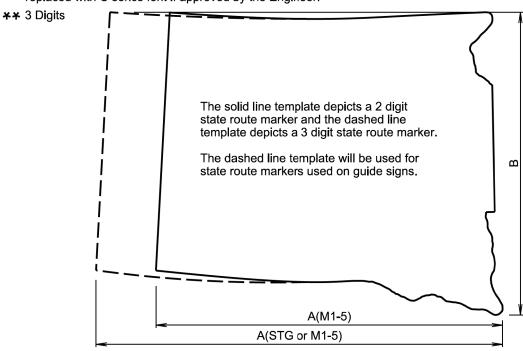
32x24 | 12D | 4¾ 48x36 18D 7

64x48 24D 9½

В	С	D	Е	F	M∗	Ν	0		SIGN CODE
18	2	1½	3½	2½	12D	2	4		STG-24
18	21/4	1¾	3½	2½	12D	2	4		STG-32
22½	2½	1%	4%	3%	15D	2½	5		STG-48
27	3	21/4	51/4	3¾	18D	3	6		STG-64
								ļ	

* 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.

30x30 | 25% | 22½ | 2½ | 1% | 4% | 3% | 15D | 2½ |



TEMPLATE FOR STATE ROUTE MARKER

STATE ROUTE MARKERS

GENERAL NOTES:

SIGN CODE | WxH |

M1**-**5

M1-5

M1-5 ****** 30x24

Α

24

24x24 20½

36x36 30¾

The unit for all dimensions shown is inches.

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

S D D O T

December 23, 2019

PLATE NUMBER 632.20

Sheet I of I

Published Date: 1st Qtr. 2021

The signs illustrated are not requi if the work space is behind a barr more than 2 feet behind the curb, feet or more from the edge of an roadway. The signs illustrated shall be used there are distracting situations; suvehicles parked on shoulder, vehicle accessing the work site via the higher and equipment traveling on or crossing the roadway to perform work oper. The ROAD WORK AHEAD sign may be rewith other appropriate signs, such the SHOULDER WORK sign. The SHOULDES sign may be used for work adjacent the shoulder. * If the work space is on a divided highway, an advance warning sign should also be placed on the left of the directional roadway. For short term, short duration, or operations, all signs and channelizing devices may be eliminated if a vehi an activated flashing or revolving light is used.	Speed Advantage of the control of th	acing of ce Warning Signs (Feet) (A) 200 350 500 750 1000
Published Date: 1st Qtr. 2021	GUIDES FOR TRAFFIC CONTROL DEVICES WORK BEYOND THE SHOULDER	April 15, 2015 PLATE NUMBER 634.01 Sheet Of

Posted

Spacing of

STATE OF	PROJECT	SHEET	TOTAL
SOUTH			SHEETS
DAKOTA	PH 0020(213)	36	37

Plotting Date: 01/25/2021

Posted	Spacing of	Spacing of
Speed	Advance Warning	Channelizing
Prior to	Signs	Devices
Work	(Feet)	(Fee†)
(M.P.H.)	(A)	(G)
0 - 30	200	25
35 - 40	350	25
45	500	25
50	500	50
55	750	50
60 - 65	1000	50

■ Flagger

■ Channelizing Device

For low-volume traffic situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger may be used.

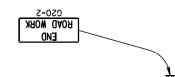
The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short duration operations (I hour or less).

For tack and/or flush seal operations, when flaggers are not being used, the FRESH OIL sign (W21-2) shall be displayed in advance of the liquid asphalt areas.

Flashing warning lights and/or flags may be used to call attention to the advance warning signs.

The channelizing devices shall be drums or 42" cones.

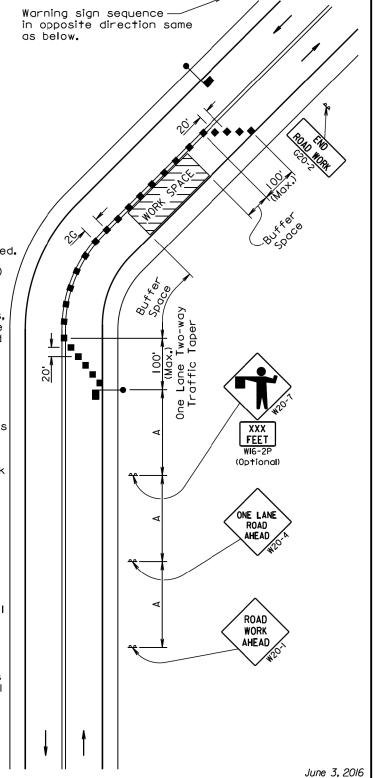
Channelizing devices are not required along the centerline adjacent to work area when pilot cars are utilized for escorting traffic through the work



Channelizing devices and flaggers shall be used at intersecting roads to control intersecting road traffic as required.

The buffer space should be extended so that the two-way traffic taper is placed before a horizontal or vertical curve to provide adequate sight distance for the flagger and queue of stopped vehicles.

The length of A may be adjusted to fit field conditions.



S D D O T

GUIDES FOR TRAFFIC CONTROL DEVICES LANE CLOSURE WITH FLAGGER PROVIDED PLATE NUMBER *634.23*

Sheet I of I

Published Date: 1st Qtr. 2021

6' to 12' 6' to 12' 5' Minimum Minimum Paved Shoulder RURAL DISTRICT RURAL DISTRICT WITH SUPPLEMENTAL PLATE 6' Minimum Sign shall be level. - Walkway RURAL DISTRICT URBAN DISTRICT 3 DAY MAXIMUM * If the bottom of supplemental plate is mounted lower than 7 feet above a (Not applicable to regulatory signs)

September 22,2014

CRASHWORTHY SIGN SUPPORTS (Typical Construction Signing)

pedestrian walkway, the supplemental plate should not project more than 4"

D

D

into the pedestrian facility.

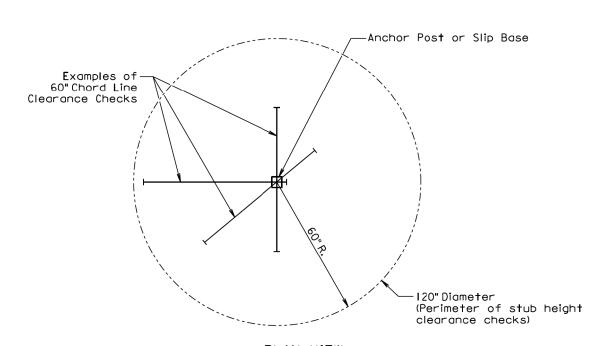
Published Date: 1st Qtr. 2021

PLATE NUMBER *634.85*

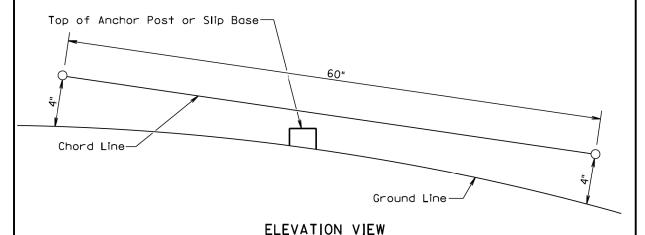
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STATE OF TOTAL SHEETS SHEET 37 37 PH 0020(213) DAKOTA

Plotting Date: 01/25/2021



PLAN VIEW (Examples of stub height clearance checks)



GENERAL NOTES:

Published Date: 1st Qtr. 2021

The top of anchor posts and slip bases SHALL 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 shall be a maximum of 4" above the ground line at the localized area adjacent to the breakaway support stub.

The 4" stub height clearance is not necessary for U-channel lap splices where the support is designed to yield (bend) at the base.

SDDOT PLATE NUMBER *634.99* BREAKAWAY SUPPORT STUB CLEARANCE Sheet I of I

July I, 2005