

Sheet 1 of 21

### BEADLE, BUFFALO, CLARK, HAND, HYDE, KINGSBURY, AND SPINK COUNTIES

### **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: <a href="https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf">https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf</a> >

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.

### COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

### **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 B4: BALD EAGLE**

Bald eagles are known to occur in this area.

### Action Taken/Required:

If a nest is observed within one mile of the project site, notify the Project Engineer immediately so that he/she can consult with the Environmental Office for an appropriate course of action.

### **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.

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### **COMMITMENT C: WATER SOURCE (Cont.)**

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 Agriculture and Natural Resources (DANR) 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:

< https://sdleastwanted.sd.gov/maps/default.aspx>

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

### **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:**

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 Agriculture 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.

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### **COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES**

State Historical Preservation Office (SHPO or THPO) concurrence has not been obtained for this project.

### **Action Taken/Required:**

All earth disturbing activities 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.

The Contractor is responsible 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.

### BEADLE, BUFFALO, CLARK, HAND, HYDE, KINGSBURY, AND SPINK COUNTIES

### **SPECIFICATIONS**

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

### **SCOPE OF WORK**

Contractor will furnish all necessary vehicles, equipment, supervision, labor, materials, tools, water, debris disposal and incidentals necessary to complete the work to the satisfaction of the Engineer. Work to be done consists of cleaning/sweeping bridge decks, adjacent approach slabs, and transverse joints located within the bridge deck and approach slabs. The cleaning/sweeping operation will consist of removing all dirt, mud, silt, sand, paper, rocks, cans, glass, dead animal carcasses, tire retreads, vehicle parts and other debris. Unforeseen conditions, such as weather, can bring unusual amounts of debris to bridge sites. Removal of all debris regardless of scope and magnitude is the responsibility of the Contractor.

Additional, cleaning of dirt, mud, silt, sand, paper, rocks, cans, glass, dead animal carcasses, tire retreads, vehicle parts and other debris will be required under the steel beam guardrail.

Contractor will be required to provide specialized heavy equipment such as sweepers, haul trucks and air compressors to remove debris, sand, mud and silt from bridge sites as indicated in the Contract.

For each bridge site the Contractor will perform a cleaning/sweeping twice during the terms of this contract. The first cleaning/sweeping will be conducted during the months of April and May. The second cleaning/sweeping will be conducted during the months of September and October. Cleaning of material under steel beam guardrail will only be required one time during the months of April and May, on this contract.

### **GENERAL REQUIREMENTS**

Contractor will evaluate actual bridge site characteristics before submitting a bid. It is the intent of this Contract to provide for cleaning and sweeping of all bridge decks, adjacent approach slabs, and transverse joints located within the bridge deck and approach slabs within the areas described herein. Additional cleaning under the steel beam guardrail will be required and the Contractor should evaluate actual bridge site guardrail characteristics before submitting a bid.

The TABLE OF BRIDGES (Attachment 1) contained within these plans provides the list of bridge sites that require cleaning/sweeping. This table also provides information on bridge length, width and size of approach slabs. Not all bridges contain approach slabs. The cover map(s) provide a general idea of bridge site locations.

Contractor will comply with all Federal, State, County and local regulations, including disposal of debris collected.

All work will be accomplished during daylight hours.

Equipment and vehicles will not be stored in the highway Right-of-Way.

Approach Slabs as defined for this contract are reinforced concrete slabs located at each end of the bridge deck. Approach slabs typically have curbs located along the edges of the slab. The length of approach slabs varies in length and in some cases, consist of 2 slabs. The end of an approach slab is typically defined by a wide joint of over 6 inches or 2 joints located with 2 feet between the joints.

### BEADLE, BUFFALO, CLARK, HAND, HYDE, KINGSBURY, AND SPINK COUNTIES

### **CLEANING SCHEDULE**

The Contractor will provide the Engineer a cleaning schedule for the upcoming week, no later than 10AM Friday. The Contactor will provide the Engineer a phone number to be able to contact the onsite Forman of the crew during working hours. Failure to provide a cleaning schedule as indicated, could result in a DOT-18 Specification Deviation being prepared by the Area Office.

### TRAFFIC CONTROL

For a 2 lane roadway with traffic in opposing directions, traffic control will be as per Standard Plate 634.23. As an alternate, the Contractor may use the traffic control plan MOBILE SWEEPING OPERATIONS ON A 2 LANE ROADWAY contained within this document.

For a 4 lane divided roadway, traffic control will be as per Standard Plate 634.64. As an alternate, the Contractor may use the traffic control plan MOBILE SWEEPING OPERATIONS ON DIVIDED 4-LANE ROADWAY contained within this document.

For a 4 lane undivided roadway, traffic control will be as per Standard Plate 634.47. On those roadways where there is a center raised median that requires sweeping, traffic control will be as per Standard Plate 634.48. As an alternate, the Contractor may use the traffic control plan MOBILE SWEEPING OPERATIONS ON DIVIDED 4-LANE ROADWAY contained within this document.

Vehicles and equipment working in traffic or alongside traffic will be equipped with a flashing amber light visible from all directions at a minimum distance of 1/2 mile. The amber light will be mounted on the uppermost part of the Contractor's vehicle. Lights must flash at 75 ±15 flashes per minute. The sweeper will have lights, meeting the aforementioned requirements, at the front and back of the equipment. Vehicle flasher/hazard lights are not acceptable.

### **SWEEPING REQUIREMENTS**

Sweeping areas will include all curb lines along both sides of the bridge deck and approach slabs, or to the edge of the pavement or guardrail where no curbs exist, along all curbs on raised medians, and over all portions of painted medians. Contractor is responsible for sweeping from the marked white or yellow edge line to the edge of bridge deck or approach slab regardless of the width. If there are no marked white or yellow edge lines, a minimum width of 5 feet will be swept along the edges of the bridge deck or approach slab.

All refuse materials and debris will be collected.

Effort beyond a mechanical sweeper may be required to loosen harden and packed material on the surface and along the curb face.

Sweeping will be accomplished in the same direction as traffic flow at all times.

Contractor will make every reasonable effort to minimize streaks left by sweepers.

At least 2 passes of the sweeper will be made over areas that require sweeping. The total number of passes required will vary based upon the width of sweeping required and the width of the sweeper used.

Sweeping operations will extend at least 50 feet beyond both ends of the approach slab, or end of bridge deck if no approach slab is present. There should be no ridge or pile of material left on the roadway or shoulder surface at the end of the sweeping operations. This may require hand work under the guardrail.

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### JOINT CLEANING REQUIREMENTS

Transverse joint openings located on the bridge deck and approach slabs will be cleaned of debris with compressed air, or other methods approved by the Engineer. Joint cleaning will be accomplished at the same time as sweeping of the bridge deck and approach slabs. Debris will not be blown over the edge of the deck onto the underlying roadway or waterway channel. The entire length of the joint will be cleaned.

### UNDER STEEL BEAM GUARDRAIL CLEANING REQUIREMENTS

Cleaning under the steel beam guardrail will consist of removing material from any hard surfaced (PCC or Asphalt Concrete) area from the end of the bridge to the tip of the steel beam guardrail terminal. Cleaning of hard surfaced areas beyond the tip of the steel beam guardrail terminal, such as under cable rail, will not be required. Cleaning under the steel beam guardrail will be accomplished from the front face of the steel beam guardrail to the back edge of the hard surfaced area (typically depth 3.5' minimum).

Cleaning will not generate dust that would cause a sight distance issue or otherwise interfere with travelling motorists.

It is anticipated that a majority of this work will be hand work that can not be completed by a mechanical sweeper or other motorized equipment. The desired level of cleaning will be such that no more than 1/4" of material remains on the hard surfaced area under and behind the guardrail.

Cleaning operation will not be allowed to move material into the driving lanes. Dirt, mud, silt, and sand material may be removed in limited amounts, by compressed air off the hard surface, into the ditch. Other larger material or man-made products will require collection and removal from the site. Debris of any sort will not be blown into a waterway or channel.

Cleaning under the steel beam guardrail operations will not cause damage to the pavement, shoulder or inslopes.

### **BRIDGE CLEANING CONFLICTS**

There are bridges that are scheduled for construction during the calendar year. This construction may conflict with the completion of 2 bridge cleanings. These potential conflicts are noted in The TABLE OF BRIDGES (Attachment 1) in the far-right column. It is anticipated that one cleaning can be accomplished on these bridges. Quantities for the project are based upon these conflict bridges being cleaned one time. The Contractor will work with the Engineer to determine what locations have conflicts at the time cleaning is planned.

### **DISPOSAL**

All refuse materials and debris collected will become the property of the Contractor and will be properly disposed of.

NO "on road" storage or dumping will be permitted.

### BEADLE, BUFFALO, CLARK, HAND, HYDE, KINGSBURY, AND SPINK COUNTIES

### **EQUIPMENT**

All equipment will be adequately maintained both mechanically and visually, and will be fully operational during all sweeping operations.

All equipment will be properly registered and insured according to motor vehicles laws of the state of South Dakota.

All units will be clearly and prominently marked with Contractor's company name.

### • AIR COMPRESSOR

Compressor will have a rated pressure of 100 psi with a minimum pressure level of 80 psi. Compressor will be capable of delivering a minimum of 180 CFM.

### SWEEPER

Minimum width of main broom or pickup head will be 54 inches. Sweeper will utilize both left side and right side brooms for picking up debris. Sweeper will have an internal self-contained storage hopper. Storage hopper will be a minimum capacity of 4 Cubic Yards.

### • <u>SWEEPER BRUSH/BROOM REPLACEMENT</u>

Worn brushes and brooms will be replaced and adjusted to insure maximum efficiency.

- a. Six (6) inches on the gutter brushes;
- b. As required on trash direction brush;
- c. Six (6) inches on the main broom.

These will be minimum criteria and final determination will be on the effectiveness of all brushes and brooms.

### • ATTENUATOR

Truck mounted or trailer attenuators may be utilized, provided attenuators conform to and are maintained in accordance with the requirements of Section 634.2 and Part 6 of the MUTCD for Category III traffic control devices.

### **DUST CONTROL**

Contractor will use all reasonable methods to minimize dust emissions during the performance of this Contract. Contractor will not create dust in such a quantity to create a nuisance, danger, or impair visibility.

Spraying of water during sweeping operations may be required to control dust.

### BEADLE, BUFFALO, CLARK, HAND, HYDE, KINGSBURY, AND SPINK COUNTIES

### **PERFORMANCE**

Primary objectives of the cleaning/sweeping program are:

- Remove debris buildup to reduce infiltration of roadway deicers into concrete.
- Prevent debris from enter storm drains and bridge deck drains.
- · Prevent debris from entering waterways.
- Maintain gutter flow lines free of debris for free flow of water.
- Maintain drainage from the roadway surface into the ditch.
- Maintain a state of cleanliness for safety and acceptable to travelers.

Sweeping will normally consist of a pass (or passes) over an area. Contractor will make as many passes or such extra effort as may be required to adequately clean the bridge deck and approach slabs. Obstructions such as accumulations of silt, compacted dirt, leaves and similar debris will be removed. Items such as small tree limbs, dead animal carcasses, tire retreads, vehicle parts and rocks may require removal prior to sweeping with a mechanical sweeper.

Inspections will be performed on a regular basis, as well as spot checks and response to complaints.

Engineer will decide adequacy of cleaning/sweeping.

In the event that the results of a cleaning/sweeping are considered to be unsatisfactory, Contractor will reclean/sweep unsatisfactory area(s) at Contractor's expense within 10 days after notification.

SDDOT reserves the right to withhold payment for missed, incomplete or unsatisfactory sweeping performance.

### **DEFICIENT PERFORMANCE**

Liquidated Damages will be applied to deficient performance and/or late completion.

Repeated instances of failure to perform will result in cancellation of the Contract.

### RECORD KEEPING

Contractor will complete RECORD OF BRIDGE CLEANING (Attachment 2) contained within the contract. Contractor will document arrival time at each bridge site, start and finish time of sweeping operations, number of passes made with sweeper, and departure time from each bridge site. Payment for services will not be made until document is completed and submitted to Engineer. Recording keeping will be kept up to date at all times and records will be made available to Engineer at any time.

The Contractor may submit to the Area Engineer, other methods of documenting cleaning progress. The Contractor will submit alternate documenting methods a minimum of 1 week prior to the preconstruction meeting.

### BEADLE, BUFFALO, CLARK, HAND, HYDE, KINGSBURY, AND SPINK COUNTIES

### **BASIS OF MEASUREMENT AND PAYMENT**

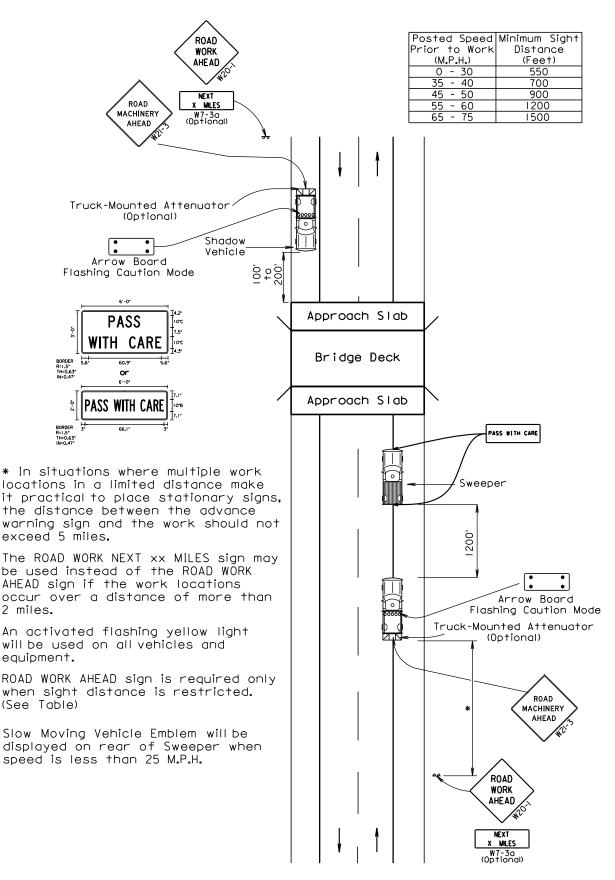
All costs for equipment, materials, labor and incidentals to clean/sweep will be incidental to the contract lump sum price for BRIDGE CLEANING. A cleaning/sweeping during the months of April and/or May will constitute 1 lump sum payment for each bridge site and the second cleaning/sweeping in September and/or October will constitute 1 lump sum payment for each bridge site. The cost for disposal of all refuse materials and debris, including dump fees, will be included in the lump sum price for BRIDGE CLEANING.

All costs for equipment, materials, labor and incidentals to clean under steel beam guardrail will be incidental to the contract unit price per site for MISCELLANEOUS WORK. The cost for disposal of all refuse materials and debris, including dump fees, will be included in the contract unit price per site for MISCELLANEOUS WORK.

All costs for shadow vehicles, traffic control signs, arrow boards, flaggers, impact attenuators and other safety devices will be incidental to the contract lump sum price for TRAFFIC CONTROL, MISCELLANEOUS.

BEADLE, BUFFALO, CLARK, HAND, HYDE, KINGSBURY, AND SPINK COUNTIES

# MOBILE SWEEPING OPERATIONS ON A 2-LANE ROADWAY



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BEADLE, BUFFALO, CLARK, HAND, HYDE, KINGSBURY, AND SPINK COUNTIES

# MOBILE SWEEPING OPERATIONS ON A DIVIDED 4-LANE ROADWAY

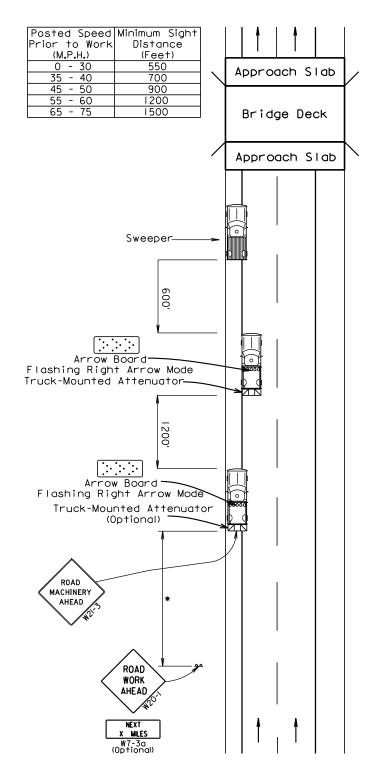
\* In situations where multiple work locations in a limited distance make it practical to place stationary signs, the distance between the advance warning sign and the work should not exceed 5 miles.

The ROAD WORK NEXT xx MILES sign may be used instead of the ROAD WORK AHEAD sign if the work locations occur over a distance of more than 2 miles.

An activated flashing yellow light will be used on all vehicles and equipment.

ROAD WORK AHEAD sign is required only when sight distance is restricted. (See Table)

Slow Moving Vehicle Emblem will be displayed on rear of Sweeper when speed is less than 25 M.P.H.



BEADLE, BUFFALO, CLARK, HAND, HYDE, KINGSBURY, AND SPINK COUNTIES

# MOBILE SWEEPING OPERATIONS ON A DIVIDED 4-LANE ROADWAY

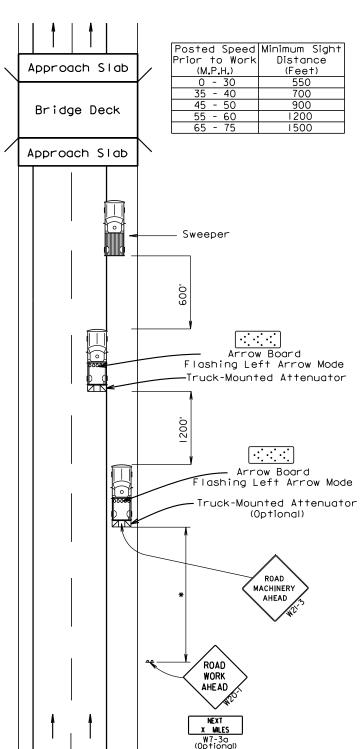
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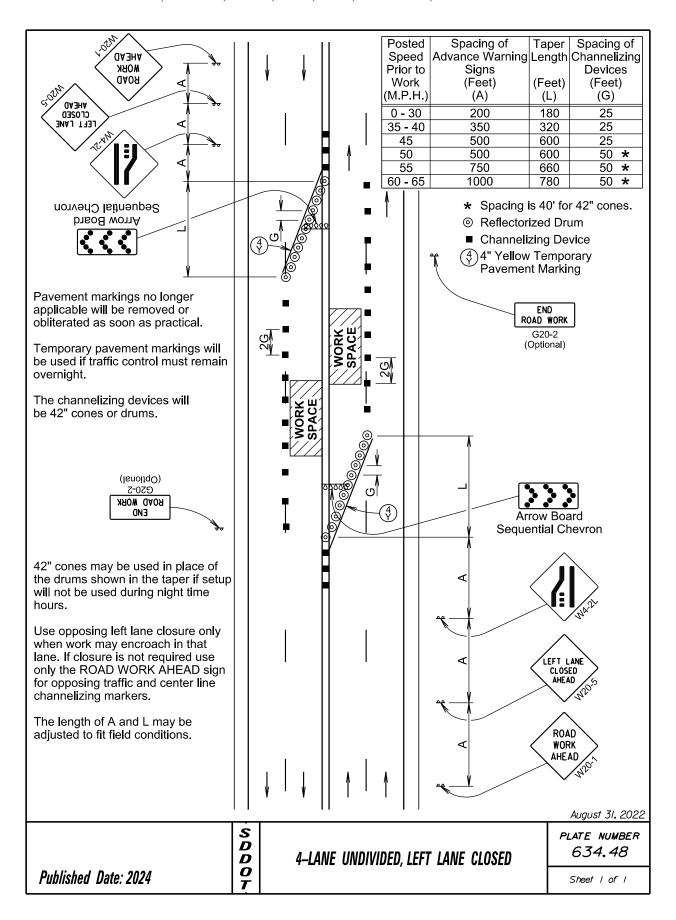
ROAD WORK AHEAD sign is required only when sight distance is restricted. (See Table)  $\ensuremath{\mathsf{Table}}$ 

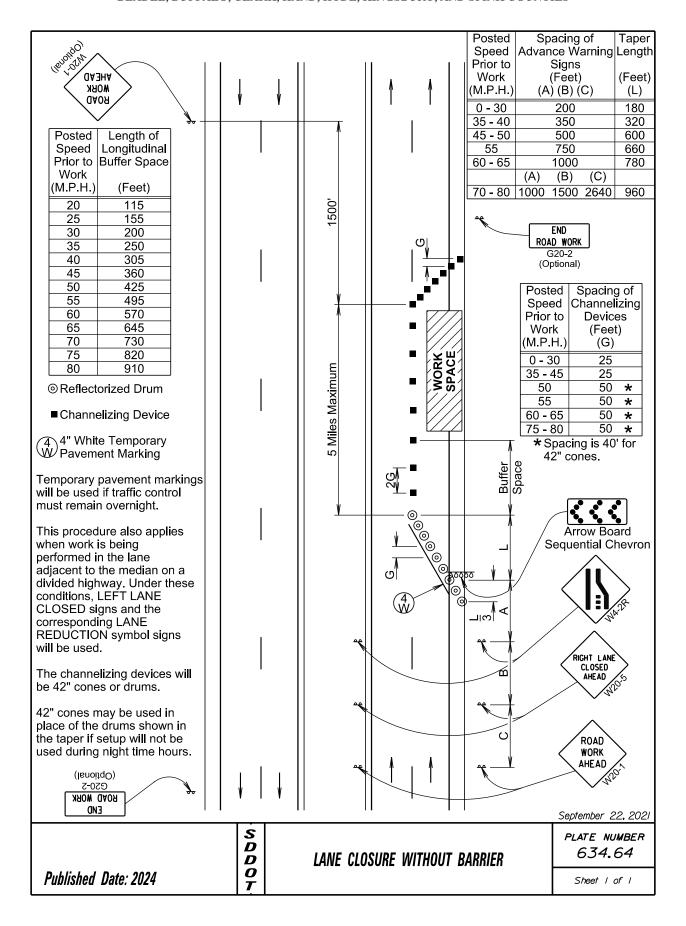
Slow Moving Vehicle Emblem will be displayed on rear of Sweeper when speed is less than 25 M.P.H.



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Fosted Speed Aspect of Taper Speeding of Taper Speeding of Speed Aspect of Speeding Organization (M.P.H.) (A) (L) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G													
Speed   Advance Warring Length Channelizing   Devices   Work   (Feet)   (Feet)   (Feet)   (Feet)   (Peet)	Posted	Spacing of	Taper	Spacing	of .								
Prior to Signs (Feet)	Speed	Advance Warning	Length C	:hanneliz	ina	1 .							
Work   (Feet)   (Feet)   (Feet)   (Feet)   (Feet)   (Poly III)   (P			Lengun						٨	٨			
(M.P.H.) (A) (L) (G) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B			(54)		'	V	V					*	
D-30 200 180 25 35-40 350 320 25 55 500 600 25 55 500 600 50 *  * Spacing is 40' for 42' cones.  © Reflectorized Drum  ■ Channelizing Device  (**) 4" White Temporary Pavement Marking  The channelizing devices will be 42" cones or drums.  42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  September 22. 202  Published Data: 2824  Published Data: 2824  Published Data: 2824						'	•		•	'		V	
35 ± 40   350   320   25   45   500   600   25   55   750   660   50   ★ 55   750   660   50   ★ 55   750   660   50   ★ \$ Spacing is 40' for 42" cones.  ② Reflectorized Drum  ■ Channelizing devices will be 42" cones or drums.  42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  Sequential Chevrol Sequential Chev	(M.P.H.)	(A)	(L)	(G)									
35 ± 40   350   320   25   45   500   600   25   55   750   660   50   ★ 55   750   660   50   ★ 55   750   660   50   ★ \$ Spacing is 40' for 42" cones.  ② Reflectorized Drum  ■ Channelizing devices will be 42" cones or drums.  42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  Sequential Chevrol Sequential Chev	0 - 30	200	180	25									END
45 500 600 25													ROAD WORK
# So So So So So So # So # So # So # So				25									G20-2
55 750 660 50 **  * Spacing is 40' for 42" cones.  * Reflectorized Drum  * Channelizing Device  * 4" White Temporary Pavement Marking  The channelizing devices will be 42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  **Spatients**  **Arrow Board Sequential Chevror Country Board Sequential Chevror Chev				25									(Optional)
## Spacing is 40' for 42' cones.    Reflectorized Drum   A' White Temporary Pavement Marking	50	500	600	50	*								
## Spacing is 40' for 42' cones.    Reflectorized Drum   A' White Temporary Pavement Marking	55	750	660	50	*								
* Spacing is 40' for 42" cones.  © Reflectorized Drum  Channelizing Device  4" White Temporary Pavement Marking  The channelizing devices will be 42" cones or drums.  42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  September 22, 2020  Publiched Pate: 1921				50									
Reflectorized Drum  Channelizing Device  4" White Temporary Pavement Marking  The channelizing devices will be 42" cones or drums.  42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  September 22, 202:  Published Rate: 2024  Published Rate: 2024					<u>~</u>					_			
Reflectorized Drum  Channelizing Device  4" White Temporary Pavement Marking  The channelizing devices will be 42" cones or drums.  42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  September 22, 202:  Published Rate: 2024  Published Rate: 2024	* Spaci	ing is 40' for 42" co	ones.									- NG	•
© Reflectorized Drum  ■ Channelizing Device  ② 4* White Temporary Pavement Marking  The channelizing devices will be 42" cones or drums.  42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  Arrow Board Sequential Chevron Sequential Chevron Sequential Chevron Road North Sequ	•	J										<u> </u>	
## Channelizing Device  ## White Temporary Pavement Marking  The channelizing devices will be 42" cones or drums.  42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  **Road Noor Noor Noor Noor Noor Noor Noor Noo													,
## 4" White Temporary Pavement Marking  The channelizing devices will be 42" cones or drums.  42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  **Roard Lamb Cussos Meta And L	∣ ⊚ Refle	ectorized Drum							•				
## 4" White Temporary Pavement Marking  The channelizing devices will be 42" cones or drums.  42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  **Roard Lamb Cussos Meta And L	-						1		L	_			
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42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  Arrow Board Sequential Chevrol Sequential Chevrol Plane (1985)  ROAD WORK  ROA	The char	imelizing devices \	WIII DE 42			1				<b>V</b> ///	<b>!</b>		
drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  Arrow Board Sequential Chevrol Sequ	cones or	arums.				1					<b> </b>		
drums shown in the taper if setup will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  Arrow Board Sequential Chevrol Sequ			_					$\parallel \parallel$	•	-			
will not be used during night time hours.  Temporary pavement markings will be used if traffic control must remain overnight.  The length of A and L may be adjusted to fit field conditions.  Sequential Chevrol Sequential Chevrol Arrow Board Sequential Chevrol Sequential Chevrol Arrow Board Sequential Chevrol Sequential Chevrol Sequential Chevrol Sequential Chevrol Area (CLOSED)  ROAD WORK AHEAD SEPTEMBER 22, 2021  PLATE NUMBER 634.47	42" cone	es may be used in	place of t	he		1							
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# TABLE OF BRIDGES

# BRIDGE CLEANING

ВЕ	ADL	E, BU	UFFA	LO,	CLA	RK,	HAN	D, H	YDE,	KIN	GSB	URY	, AN	D SPI	NK (	COU	NTIE	es			
c	*																				
Deck Joint Quantity (LF)																					
Approach Joint Quantity (LF)	9/					89			89	89		92	84							80	80
Approach Quantity (SF)	1514					1506			1526	1387		1538	1913							2213	2213
Skew Angle	0	0	0	0	0	0	0	0	25	0	0	15	10	0	0	0	0	0	0	30	30
Deck Area (SF)	9298	3165	3510	2595	2490	3408	2205	4384	11279	4320	3180	3819	11622	3840	2760	2010	4200	3165	3165	6510	6510
Bridge Roadway Width (Ft)	36	30	30	30	30	32	30	32	32	32	30	36	40	30	30	30	30	30	30	38	38
Structure Length (Ft)	241	105.5	117	86.5	83	106.5	73.5	137	352.48	135	106	106.07	290.54	128	92	29	140	105.5	105.5	171.31	171.31
Location	5.2 E of Jct SD 20 & US 281	6.8 W Jct SD 20 W & Jct SD 37 N	1.8 W of Jct SD 20 W & SD 37 N	0.8 S of Jct SD 20 W & SD 37 N	1.6 W of Clark County Line	2.8 W of Jct SD 26 W & SD 45 N	5.9 E of Jct SD 26 E & SD 45 S	58-047-290 4.3 W of Jct SD 26 & US 281	2.6 W of Jct SD 28 & SD 37	2.0 E of Jct SD 28 & SD 37	0.9 S of Jct SD 34 W & SD 47 N	2.8 W of Jct SD34 & SD 50 S	03-240-050 4.9 S of Spink County Line	6.0 S of Jct US 212 W & SD 37 S	2.3 N of Jct US 212 E & SD 37 N	6.4 N of Jct US 212 E & SD 37 N	7.7 N of Jct US 212 E & SD 37 N	3.4 S of Jct SD 20 E & SD 37 S	1.8 S of Jct SD 20 E & SD 37 S	5.7 S of Huron	3.5 S of Jct US 14 & SD 37
Structure	58-152-060	58-231-060	58-281-060	58-300-068	58-344-090	30-132-080	30-218-090	58-047-290	58-214-420	58-260-420	35-110-447	09-094-080	03-240-050	58-240-300	58-300-217	58-300-176	58-300-163	58-300-124	58-300-109	03-240-257	03-240-216
MRM	326.87	334.72	339.67	342.39	349.02	250.09	259.79	275.37	281.50	285.99	258.00	272.07	140.95	157.93	171.77	175.86	177.29	181.02	182.66	120.06	124.22
Route	SD 20	SD 20	SD 20	SD 20	SD 20	SD 26	SD 26	SD 26	SD 28	SD 28	SD 34	SD 34	SD 37	SD 37	SD 37	SD 37	SD 37	SD 37	SD 37	SD 37 N	SD 37 N

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# TABLE OF BRIDGES

# BRIDGE CLEANING BEADLE, BUFFALO, CLARK, HAND, HYDE, KINGSBURY, AND SPINK COUNTIES

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0 C + 0 t																	*		
Deck Joint Quantity (LF)					30		182												
Approach Joint Quantity (LF)	80	80				92		99	95	92		64	64	84			84		92
Approach Quantity (SF)	2213	2213				3161		1139	2645	1879	1768	1305	1385	2622			2533		3496
Skew Angle	30	30	0	0	0	25	45	0	30	0	20	0	0	30	0	0	35	30	27
Deck Area (SF)	6510	6510	1620	2908	6825	5641	19590	9609	4106	4378	4241	3180	3180	12796	11176	5200	9226	8544	8195
Bridge Roadway Width (Ft)	38	38	30	29.83	30	44	09	24	44	44	44	30	30	40	44	40	39.83	52	44
Structure Length (Ft)	171.31	171.31	54	97.5	227.5	128.21	326.5	254	93.31	99.5	96.38	106	106	319.89	254	130	245.44	164.31	186.25
Location	5.7 S of Huron	3.5 S of Jct US 14 & SD 37	1.8 N of Jct SD 34 & SD 45	3.9 N of Buffalo County Line	0.3 NE of Big Bend Dam	2.0 NW of Wolsey	1.3 E of Jct US 14 & SD 37	1.4 E of Jct US 14 & SD 37	2.8 E of Cavour	2.7 W of Iroquois	3.1 E of Jct US 14 & SD 25	0.5 E of Jct US 14 & SD 37	0.5 E of Jct US 14 & SD 37	0.3 NW of Jct US 212 W & US 281 S	1.7 W of Frankfort	0.1 W of Jct US 212 W & SD 37 S	3.9 S of Jct SD 26 & US 281	0.5 N of Jct US 212 E & US 281 N	5.8 N of Jct US 212 E & US 281 N
Structure	03-239-257	03-239-216	09-290-063	30-160-442	680-090-60	03-100-133	03-253-180	03-254-180	03-359-180	03-393-180	39-177-117	03-246-181	03-246-180	58-086-251	58-183-250	58-242-240	58-101-321	58-095-249	58-100-197
MRM	120.06	124.22	82.77	93.02	89.70	327.69	346.97	347.06	357.51	360.80	381.69	346.22	346.22	306.15	315.66	321.92	146.39	154.45	159.71
Route	SD 37 S	SD 37 S	SD 45	SD 45	SD 47	US 14	US 14	US 14	US 14	US 14	US 14	US 14 E	US 14 W	US 212	US 212	US 212	US 281	US 281	US 281

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RECORD OF BRIDGE CLEANING												
ROUTE	MRM	STR. NO.	Arrival Date and Time	Time Sweeping Started	Time Sweeping Ended	Departure Time						
Contractor Si	gnature				Date							

RECORD OF BRIDGE CLEANING														
ROUTE	MRM	STR. NO.	Arrival Date and Time	Time Sweeping Started	Time Sweeping Ended	Departure Time								
(Example	(Example entry)													
SD 28	122.57	12 224 550	4/6/18	4.OF DN4	4.20 DM	4.40 DN4								
SD 28	123.57	12-224-558	3:35 PM	4:05 PM	4:30 PM	4:40 PM								
(Example entry when doing multiple bridges on divided highway)														
I-29 N B &	Exit 140 to		4/10/18		40.20.414	10.45.444								
SB	Exit 150	6 bridges total	7:50am	8:20 AM	10:30 AM	10:45 AM								
Contractor Si	gnature				Date									