



Planning & Engineering  
Office of Project Development  
700 E Broadway Avenue  
Pierre, South Dakota 57501-2586  
O: 605.773.3275 | F: 605.773.2614  
dot.sd.gov

November 5, 2024

**ADDENDUM NO. 2**

**RE: Item #1, November 6, 2024 Letting - IM 0295(46)139, PCN 06P3, Brookings, Deuel County - Cold Milling, Asphalt Concrete Surfacing/Resurfacing, Guardrail, Pipe Work, Ramp Detours, Acceleration and Deceleration Lane Modification**

**TO WHOM IT MAY CONCERN:**

The following addenda to the plans shall be inserted and made a part of your proposal for the referenced project.

**SPECIAL PROVISIONS:** NO CHANGE

**SDEBS BID PROPOSAL:** *The electronic bid proposal for this contract has been revised to include the changes associated with this addendum. Bidders must log in to the SDEBS to retrieve and incorporate these changes into their bid.*

**Bid Items were added:**

Bid Item 634E0340 "Temporary Raised Pavement Markers"

**Bid Items were removed:**

Bid Item 634E0600 "4" Temporary Pavement Marking Tape Type I"

**PLANS:** Please destroy sheets A1, C2 & C3 and replace with the enclosed sheets, dated 11/5/24.

**Sheets A1 & C2:**

**Bid Items were added:**

Bid Item 634E0340 "Temporary Raised Pavement Markers"

**Bid Items were removed:**

Bid Item 634E0600 "4" Temporary Pavement Marking Tape Type I"

**Sheet C2:** GENERAL TRAFFIC CONTROL notes were revised.

**Sheet C3:** TEMPORARY RAISED PAVEMENT MARKERS note was added.

Sincerely,

Sam Weisgram  
Engineering Supervisor

SW/cj

CC: Mark Peterson, Aberdeen Region Engineer  
Matt Brey, Watertown Area Engineer

# ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(46)139	A1	A3

## Section F – Surfacing

### Section C - Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
632E2530	Type 3 Object Marker	8	Each
634E0110	Traffic Control Signs	2,673.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	51	Each
634E0340	Temporary Raised Pavement Markers	5.1	Mile
634E0380	Tubular Marker	898	Each
634E0390	Replace Tubular Marker	100	Each
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	4,210	Ft
634E1002	Detour and Restriction Signing	1,326.8	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	2	Each

### Section D - Erosion and Sediment Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	4.0	CuYd
110E1693	Remove Erosion Control Wattle	500	Ft
110E1700	Remove Silt Fence	500	Ft
230E0020	Contractor Furnished Topsoil	1,016	CuYd
230E0100	Remove and Replace Topsoil	Lump Sum	LS
730E0212	Type G Permanent Seed Mixture	1,393	Lb
731E0200	Fertilizing	13.40	Ton
732E0100	Mulching	107.1	Ton
734E0044	Soil Stabilizer	15.0	Acre
734E0154	12" Diameter Erosion Control Wattle	2,000	Ft
734E0165	Remove and Reset Erosion Control Wattle	500	Ft
734E0602	Low Flow Silt Fence	2,000	Ft
734E0610	Mucking Silt Fence	139	CuYd
734E0620	Repair Silt Fence	500	Ft
900E1320	Construction Entrance	2	Each

### SPECIFICATIONS

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

### INDEX OF SHEETS

A1 Estimate of Quantities for Sections C, D, F and M  
A2 to A3 Environmental Commitments

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	0.985	Mile
009E3240	Graded Centerline Staking	0.985	Mile
009E3250	Miscellaneous Staking	13.084	Mile
009E3280	Slope Staking	0.985	Mile
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E3320	Checker	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
110E0500	Remove Pipe Culvert	37	Ft
110E0510	Remove Pipe End Section	16	Each
110E0700	Remove 3 Cable Guardrail	1,206	Ft
110E0707	Remove High Tension 4 Cable Guardrail	303	Ft
110E0730	Remove Beam Guardrail	456.3	Ft
110E0740	Remove 3 Cable Guardrail Anchor Assembly	10	Each
110E0749	Remove High Tension 4 Cable Guardrail Anchor Assembly	2	Each
110E1010	Remove Asphalt Concrete Pavement	5,122.8	SqYd
110E6410	Remove Type 1 MGS for Reset	1,137.5	Ft
110E6617	Remove MGS Tangent End Terminal for Reset	5	Each
110E7000	Remove Crossover Closure for Reset	448	Ft
110E7500	Remove Pipe for Reset	100	Ft
110E7510	Remove Pipe End Section for Reset	40	Each
120E0010	Unclassified Excavation	3,420	CuYd
120E0100	Unclassified Excavation, Digsouts	626	CuYd
120E0600	Contractor Furnished Borrow	7,877	CuYd
120E2000	Undercutting	4,313	CuYd
120E4100	Reprofiling Ditch	33.0	Sta
120E6100	Water for Embankment	101.9	MGal
120E6200	Water for Granular Material	320.5	MGal
120E9000	Pit Run	14,767.7	Ton
260E1010	Base Course	11,928.0	Ton
320E0008	PG 64-34 Asphalt Binder	3,217.2	Ton
320E1004	Class Q4 Hot Mixed Asphalt Concrete	35,739.7	Ton
320E1090	Modified Class S Asphalt Concrete	14,984.0	Ton
320E1200	Asphalt Concrete Composite	2,109.8	Ton
320E1810	Asphalt Concrete Leveling Lift	5,241.9	Ton
320E3000	Compaction Sample	3	Each
320E3100	Stabilizing Additive for Asphalt Concrete	46.7	Ton
320E4000	Hydrated Lime	407.0	Ton
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	22.6	Mile
330E0010	MC-70 Asphalt for Prime	0.5	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	203.7	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	11.0	Ton
330E2000	Sand for Flush Seal	154.4	Ton
332E0010	Cold Milling Asphalt Concrete	20,907	SqYd
380E6500	Planing PCC Pavement	9,824.0	SqYd
450E0122	18" RCP Class 2, Furnish	6	Ft
450E0130	18" RCP, Install	6	Ft
450E0142	24" RCP Class 2, Furnish	34	Ft
450E0150	24" RCP, Install	34	Ft

Revised: 11-05-2024 LLA

### Section F – Surfacing – Continued

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E2008	18" RCP Flared End, Furnish	1	Each
450E2009	18" RCP Flared End, Install	1	Each
450E2016	24" RCP Flared End, Furnish	2	Each
450E2017	24" RCP Flared End, Install	2	Each
450E2200	24" RCP Sloped End, Furnish	3	Each
450E2201	24" RCP Sloped End, Install	3	Each
450E2204	30" RCP Sloped End, Furnish	1	Each
450E2205	30" RCP Sloped End, Install	1	Each
450E2208	36" RCP Sloped End, Furnish	1	Each
450E2209	36" RCP Sloped End, Install	1	Each
450E2308	24" RCP Safety End, Furnish	3	Each
450E2311	24" RCP Safety End, Install	3	Each
450E4748	15" CMP 14 Gauge, Furnish	14	Ft
450E4750	15" CMP, Install	14	Ft
450E5203	12" CMP Flared End, Furnish	1	Each
450E5204	12" CMP Flared End, Install	1	Each
450E5402	15" CMP Safety End, Furnish	3	Each
450E5403	15" CMP Safety End, Install	3	Each
* 450E8900	Cleanout Pipe Culvert	57	Each
450E9000	Reset Pipe	100	Ft
450E9001	Reset Pipe End Section	40	Each
600E0300	Type III Field Laboratory	1	Each
629E0110	High Tension 4 Cable Guardrail	303	Ft
629E0290	High Tension Cable Guardrail Anchor Assembly	2	Each
629E9050	Reset Crossover Closure	448	Ft
630E0500	Type 1 MGS	1,162.5	Ft
630E1501	Type 1 Retrofit Guardrail Transition	5	Each
630E2019	MGS Tangent End Terminal	5	Each
630E2110	Beam Guardrail Post and Block	192	Each
630E5010	Reset Type 1 MGS	1,137.5	Ft
630E5206	Reset MGS Tangent End Terminal	5	Each
632E2220	Guardrail Delineator	67	Each
632E2510	Type 2 Object Marker Back to Back	2	Each
634E0700	Traffic Control Movable Concrete Barrier	171	Each
634E0750	Temporary Concrete Barrier End Protection	10	Each
634E0760	Temporary Concrete Barrier End Protection Module Set or Repair Kit	2	Each
670E4200	Type M Median Drain	1	Each
831E0210	Non-woven Separator Fabric	7,950	SqYd
900E1980	Storage Unit	1	Each

\* - Denotes Non-Participating

### Section M - Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E1220	High Build Waterborne Pavement Marking Paint, 4" White	73,300	Ft
633E1222	High Build Waterborne Pavement Marking Paint, 4" Yellow	68,205	Ft
633E1250	High Build Waterborne Pavement Marking Paint, 12" White	1,540	Ft
633E1260	High Build Waterborne Pavement Marking Paint, 24" White	130	Ft
633E3000	Durable Pavement Marking, 4" White	78,712	Ft
633E3005	Durable Pavement Marking, 4" Yellow	62,969	Ft
633E5100	Grooving for Durable Pavement Marking, 4"	283,186	Ft
633E5110	Grooving for Durable Pavement Marking, 12"	1,540	Ft
633E5115	Grooving for Durable Pavement Marking, 24"	130	Ft

Revised 11/5/24 TL

## SECTION C ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
632E2530	Type 3 Object Marker	8	Each
634E0110	Traffic Control Signs	2,673.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	51	Each
634E0340	Temporary Raised Pavement Markers	5.1	Mile
634E0380	Tubular Marker	898	Each
634E0390	Replace Tubular Marker	100	Each
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	4,210	Ft
634E1002	Detour and Restriction Signing	1,326.8	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	2	Each

## SEQUENCE OF OPERATIONS

Contractor requests to deviate from the sequence of operations will be submitted in writing to the Engineer for review. Approval of an alternative sequence of operations will only be allowed when the proposed changes meet with the Department's intent for traffic control and sequencing of the work. An alternate sequence will be submitted for review a minimum of one week prior to potential implementation.

### Phase I

Install temporary concrete barriers on interstate prior to two-way traffic.  
 Install Lane Closures for Mill and Overlay  
 Mill and overlay median crossovers.  
 Install fixed location signs.  
 Install width restriction signs.  
 Install Temporary Guardrail  
 Construct ramp detours at Exits 140 & 150.

### Phase II

Remove conflicting pavement markings.  
 Install channeling devices and temporary road markers to separate two-way traffic on the Northbound lanes.  
 Northbound lanes - repaint existing white and yellow edge line. Existing yellow edge line to be painted white.

### Phase III

Maintain two-way traffic on Northbound lanes while constructing Southbound lanes.

### Phase IV

Install permanent pavement markings on the reconstructed Southbound lanes and ramps.  
 Install permanent signing and delineation.

### Phase V

Restore Southbound traffic to reconstructed Southbound lanes.  
 Remove temporary ramp detours  
 Remove two-way traffic delineation and shoulder delineation.  
 Remove width restriction signs.  
 Install permanent pavement markings on Northbound lanes within project limits.  
 Remove temporary concrete barriers on downstream end of interstate bridges.  
 Remove all fixed location construction signing.

## 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.

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

If there is a discrepancy between the traffic control plans, standard plates, and the MUTCD, 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, sign posts, 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.

If inappropriate or conflicting pavement markings exist, the markings will be

removed and replaced with applicable temporary pavement markings when the work duration is more than 3 days. When the work duration is less than 3 days, the channelizing devices in the area where the pavement markings conflict will be placed at one-half of the normal channelizing device spacing. Pavement marking removals will be incidental to the contract unit price per foot for "Remove Pavement Marking, 4" or equivalent". The additional channelizing devices will be incidental to the contract lump sum price for "Traffic Control, Miscellaneous".

A Type 3 Barricade will be installed at the end of a lane closure taper as detailed in these plans. Additional Type 3 Barricades will be installed facing traffic within the closed lane at a spacing of ¼ mile.

Construction vehicles will exit or enter the construction work zone at locations identified by the Engineer. At no time will construction vehicles utilize the maintenance crossovers or the Interstate median to exit or enter Interstate traffic.

The Contractor will be required to install W6-3 Two Way Traffic symbol, W7-3a NEXT XX MILES, R2-1 SPEED LIMIT 65, and R4-1 DO NOT PASS signs at 2 mile intervals throughout the two way traffic section.

R8-4 EMERGENCY PARKING ONLY signs shall be installed for Southbound traffic at 2 mile intervals throughout the two way traffic section.

The Contractor will be required to furnish and install Type 3 Object Markers on both ends of all structures before two-way traffic is allowed. The cost to furnish, install, maintain, and remove the Type 3 object markers shall be incidental to the contract unit price per each for "Type 3 Object Marker".

For information only, it is estimated that 1,740 white and 25,080 yellow temporary road markers will be required as illustrated in the plan layout sheets.

## OVERWIDTH RESTRICTION SIGNING

The Contractor will furnish and install the overwidth restriction signs as shown in these plans. Prior to installing the signs, the Contractor will mark the sign locations and review them with the Engineer. Overwidth restriction signs will be installed on fixed location, ground mounted, breakaway supports. It will be the responsibility of the Contractor to maintain and reinstall these signs during the project as required by the construction progress. Upon completion of the project, the Contractor will remove the overwidth restriction signs.

All costs for furnishing the signs, posts, and mounting hardware, and for installing, maintaining, covering, and removing the overwidth restriction will be incidental to the contract unit price per square foot for "Detour and Restriction Signing".

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	IM 0295(46)139	C3	C18

Revised 11/5/24 TL

### **WORK ZONE SPEED REDUCTION**

The Department is required to obtain a speed reduction resolution prior to the installation of any SPEED LIMIT (R2-1) signs shown on standard plate 634.63. To provide adequate time for the resolution to be enacted, the Contractor will inform the Engineer a minimum of 3 weeks prior to the scheduled installation of any work zone speed reduction signs on the project. The information provided by the Contractor will include the anticipated date of sign installation, the newly reduced speed limit, the location of the work zone, and the anticipated completion date of work requiring the speed reduction.

### **CONTRACTOR FURNISHED PORTABLE CHANGEABLE MESSAGE SIGN**

One week prior to starting work affecting the traveling public, portable changeable message signs (PCMS) will be installed prior to roadway ahead sign at first ditch block or median crossover, or as directed by the engineer, to notify drivers of the upcoming construction. The Contractor will program the portable changeable message signs with the following message:

ROAD WORK  
STARTS (Date)

When work begins that will affect traffic patterns, the Contractor will re-program the PCMS with the messages:

TWO-LANE TRAFFIC AHEAD  
USE CAUTION

### **TUBULAR MARKERS**

The color of the tubular markers on centerline will be predominately orange. The color of the tubular markers installed on the shoulders will be predominately white. The white tubular markers will be installed 2.0 feet from the existing edge line at intervals of approximately 480 feet.

All tubular markers will be a minimum of 28 inches in height. The base of the tubular marker should be attached to the roadway surface with a flexible non-permanent bituminous adhesive capable of being removed from the roadway surface after use. The pin used to connect the marker to the base will be of a type that will not puncture a vehicle tire if it should become dislodged from the base.

All costs for furnishing, installing, maintaining, and removing the tubular markers will be incidental to the contract unit price per each for "Tubular Marker".

### **INCIDENTS**

An incident is an emergency road user occurrence, a natural disaster, or other unplanned event that affects or impedes the normal flow of traffic such as a crash, hazardous materials spill, or other event.

The Contractor will set up a meeting prior to start of work to plan and coordinate responses to an incident. The Contractor will invite the

Department of Transportation, the South Dakota Highway Patrol, the Brookings County Sheriff and local emergency response entities to the meeting.

The Contractor will assist to maintain traffic as required by these plan notes and as agreed to at that meeting.

Emergency vehicle access through the project will be considered and discussed at the meeting.

The Contractor may be required to modify messages on portable changeable message signs or relocate portable changeable message signs, and to provide flaggers to direct or detour traffic. The Contractor should be prepared to relocate advance warning signs if determined to be necessary for a major traffic incident lasting more than two hours. Fixed location ground mounted signs may be covered and additional portable signs provided.

No additional payment will be made for the modification of portable changeable message sign messages or the relocation of portable changeable message signs. Cost for the relocation of an advance warning sign due to an incident will be 50% of the designated sign rate. Flaggers will be paid for at the contract unit price per hour for "Flagging".

### **PRESS RELEASE ANNOUNCEMENTS**

The SDDOT will prepare a press release to be released 5 days prior to any phase change or any other major change that affects traffic flow. The SDDOT will be responsible to keep law enforcement, emergency services, and the traveling public notified of changes in project access. The Contractor will provide the Engineer with pertinent information 7 days prior to any phase change or any other major change that affects traffic flow.

### **TEMPORARY RAISED PAVEMENT MARKERS**

Temporary raised pavement markers will be used for marking edge lines, lane lines, and centerlines. Temporary raised pavement markers will be used on all new permanent surfacing sections of roadway and on existing surfacing where temporary marking locations are different than existing marking locations, unless noted or as directed by the Engineer.

Temporary raised pavement markers will be attached to the roadway surface with a flexible non-permanent bituminous adhesive capable of being removed from the roadway surface or with an adhesive approved by the Engineer.

All costs to furnish, install, replace if necessary, and remove the markers will be incidental to the contract unit price per mile for "Temporary Raised Pavement Markers".