



Department of Transportation

Office of Project Development

700 E Broadway Avenue

Pierre, South Dakota 57501-2586 605/773-3268

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February 29, 2016

ADDENDUM NO. 1

RE: Item #6, March 2, 2016 Letting - IM 0901(171)18, PCN 02PP, Lawrence County - Polymer Chip Seal, Joint Modification, End Block & Approach Slab Repair

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

BID ITEM FILE: *Bidders must log in to retrieve the addendum bid item file that must be loaded into the SDEBS to incorporate the revisions listed here.*

Bid Items were added:

Bid Item 634E1002 "Detour Signing"

PLANS: Please destroy sheets A1, C2, C3, and replace with the enclosed sheets, dated 2/26/16. Sheets C3A and C3B were added.

Sheets A1 & C2: Bid Item 634E1002 "Detour Signing" was added.

Sheet C3: OVERWIDTH DETOUR SIGNING note was added.

Sheets C3A & C3B: OVERWIDTH DETOUR SIGNING was added.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Todd Seaman, Rapid City Region Engineer
Mike Carlson, Rapid City Area Engineer

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0901(171)18	A1	A3

Revised 2-29-2016 klh

Section C - Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
634E0010	Flagging	200.0	Hour
634E0110	Traffic Control Signs	1,218	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0285	Type 3 Barricade, 8' Double Sided	4	Each
634E0420	Type C Advance Warning Arrow Board	4	Each
634E0640	Temporary Pavement Marking	2,608	Ft
634E1002	Detour Signing	474.0	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	2	Each
634E1255	Contractor Furnished Speed Monitoring Radar Trailer	4	Each

Section E - Structure

Str. No. 41-160-083

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
410E2600	Membrane Sealant Expansion Joint	39.8	Ft
460E0172	Concrete Patching Material, Bridge Deck	97.8	CuFt
460E0300	Breakout Structural Concrete	1.8	CuYd
480E0200	Epoxy Coated Reinforcing Steel	123	Lb
480E0505	No. 5 Rebar Splice	3	Each
480E5000	Galvanic Anode	21	Each
491E0005	Two Coat Bridge Deck Polymer Chip Seal	575.5	SqYd
491E0110	Abrasive Blasting of Bridge Deck	575.5	SqYd
491E0120	Bridge Deck Grinding	575.5	SqYd
491E0130	Concrete Removal, Class A	4.0	SqYd
491E0140	Concrete Removal, Class B	4.0	SqYd

Str. No. 41-160-084

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
460E0172	Concrete Patching Material, Bridge Deck	290.3	CuFt
491E0005	Two Coat Bridge Deck Polymer Chip Seal	575.5	SqYd
491E0110	Abrasive Blasting of Bridge Deck	575.5	SqYd
491E0120	Bridge Deck Grinding	575.5	SqYd
491E0130	Concrete Removal, Class A	23.1	SqYd
491E0140	Concrete Removal, Class B	23.1	SqYd

Str. No. 41-161-082

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
460E0172	Concrete Patching Material, Bridge Deck	47.2	CuFt
491E0005	Two Coat Bridge Deck Polymer Chip Seal	443.6	SqYd
491E0110	Abrasive Blasting of Bridge Deck	443.6	SqYd
491E0120	Bridge Deck Grinding	443.6	SqYd
491E0130	Concrete Removal, Class A	4.0	SqYd
491E0140	Concrete Removal, Class B	4.0	SqYd

Str. No. 41-162-082

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
410E2600	Membrane Sealant Expansion Joint	39.8	Ft
460E0172	Concrete Patching Material, Bridge Deck	393.0	CuFt
460E0300	Breakout Structural Concrete	2.0	CuYd
480E0200	Epoxy Coated Reinforcing Steel	123	Lb
480E0505	No. 5 Rebar Splice	3	Each
480E5000	Galvanic Anode	21	Each
491E0005	Two Coat Bridge Deck Polymer Chip Seal	443.6	SqYd
491E0110	Abrasive Blasting of Bridge Deck	443.6	SqYd
491E0120	Bridge Deck Grinding	443.6	SqYd
491E0130	Concrete Removal, Class A	38.1	SqYd
491E0140	Concrete Removal, Class B	38.1	SqYd

Str. No. 41-200-088

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
410E0700	Abutment Joint Drain	1	Each
460E0172	Concrete Patching Material, Bridge Deck	91.7	CuFt
491E0005	Two Coat Bridge Deck Polymer Chip Seal	788.0	SqYd
491E0110	Abrasive Blasting of Bridge Deck	788.0	SqYd
491E0120	Bridge Deck Grinding	788.0	SqYd
491E0130	Concrete Removal, Class A	15.0	SqYd
491E0140	Concrete Removal, Class B	15.0	SqYd

INDEX OF SHEETS

A1 & A2 Estimate of Quantities for Sections C and E
A3 Environmental Commitments

Str. No. 41-200-089

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
460E0172	Concrete Patching Material, Bridge Deck	97.0	CuFt
491E0005	Two Coat Bridge Deck Polymer Chip Seal	788.0	SqYd
491E0110	Abrasive Blasting of Bridge Deck	788.0	SqYd
491E0120	Bridge Deck Grinding	788.0	SqYd
491E0130	Concrete Removal, Class A	11.2	SqYd
491E0140	Concrete Removal, Class B	11.2	SqYd

Str. No. 41-214-098

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
412E0120	Bridge Repainting, Class II	Lump Sum	LS
412E0500	Paint Residue Containment	Lump Sum	LS
460E0172	Concrete Patching Material, Bridge Deck	75.3	CuFt
460E0174	Concrete Patching Material, Miscellaneous	5.4	CuFt
460E0300	Breakout Structural Concrete	0.3	CuYd
480E5000	Galvanic Anode	5	Each
491E0005	Two Coat Bridge Deck Polymer Chip Seal	549.1	SqYd
491E0110	Abrasive Blasting of Bridge Deck	549.1	SqYd
491E0120	Bridge Deck Grinding	549.1	SqYd
491E0130	Concrete Removal, Class A	11.6	SqYd
491E0140	Concrete Removal, Class B	11.6	SqYd

SECTION C ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
634E0010	Flagging	200.0	Hour
634E0110	Traffic Control Signs	1,218	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0285	Type 3 Barricade, 8' Double Sided	4	Each
634E0420	Type C Advance Warning Arrow Board	4	Each
634E0640	Temporary Pavement Marking	2,608	Ft
634E1002	Detour Signing	474.0	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	2	Each
634E1255	Contractor Furnished Speed Monitoring Radar Trailer	4	Each

TRAFFIC CONTROL – GENERAL NOTES

1. Requests to deviate from the sequence of operations shall be submitted in writing to the Engineer for review. Approval of an alternate 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 shall be submitted for review a minimum of one week prior to potential implementation.
2. Unless otherwise stated in these plans, no work will be allowed during hours of darkness.
3. Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage of the vegetation, surfacing, embankment, delineators, and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor, at no expense to the State, and to the satisfaction of the Engineer.
4. Existing guide, route, informational logo, regulatory, warning signs and delineation shall be temporarily reset and maintained during construction as directed by the Engineer. Removing, relocating, salvaging and resetting of the above items shall be the responsibility of the Contractor.
5. Non-applicable traffic control devices shall be completely covered or removed during periods of inactivity. Periods of inactivity shall be defined as no work taking place for a period of more than 48 hours.
6. Construction signing mounted on portable supports shall not be used for a duration of more than 3 days, unless approved by the Engineer. Construction signing that remains in the same location for more than 3 days shall be mounted on fixed location, ground mounted, breakaway supports. All regulatory signs shall have minimum mounting height of five feet, even when mounted on portable supports.
7. Any delineators and signs damaged or lost shall be replaced by the Contractor at no cost to the State.
8. All materials and equipment shall be stored a minimum distance of 30' from the traveled way during nonworking hours.

9. The Contractor shall provide installation details at the preconstruction meeting for all breakaway sign support assemblies.
10. All haul trucks shall be equipped with a second flashing amber light that is visible from the backside of the haul truck. The costs for the flashing amber lights shall be incidental to the various related contract bid items.
11. All construction operations shall be conducted in the general direction of traffic movement.
12. If there is a discrepancy between the traffic control plans, standard plates, and the MUTCD – whichever is more stringent shall be used, as determined by the Engineer.
13. Temporary Flexible Vertical Markers (Tabs) shall be used for lane closure tapers or lane shift tapers and shall be installed at 5' spacing. Tabs used for tapers and shifts will not be measured for payment. All costs associated to furnish, install, maintain (including replacement as required by the Engineer at no added cost to the Department), and remove all markers will be incidental to the contract lump sum price for Traffic Control, Miscellaneous.
14. Drums are required in all lane closure tapers, and temporary gore areas of interchange ramps.
15. Interstate 90 and ramp traffic shall not be stopped at any time.
16. The minimum height to the bottom of the Exit Gore sign shall be 7'.
17. When using Standard Plate 634.63, the speed limit through the 3 mile maximum work zone shall be 65 MPH in non-active areas and 45 MPH through active work spaces.
18. A 16' width restriction will be put in place when work is being done in the passing lane. A 14' width restriction will be put in place when work is being done in the driving lane.
19. The quantity of Type C Advance Warning Arrow Boards and Traffic Control Signs will be paid for per each work site.

SEQUENCE OF OPERATIONS

The Contractor shall provide a Sequence of Operations, at least one week in advance of the preconstruction meeting, to the Engineer for approval. The following requirements/restrictions shall apply:

- Structure No.'s 41-160-084 and 41-162-082 will be considered a work site
- Structure No.'s 41-200-089 and 41-214-099 will be considered a work site
- Structure No.'s 41-214-098 and 41-200-088 will be considered a work site
- Structure No.'s 41-161-082 and 41-160-083 will be considered a work site
- Standard Plate 634.63 and Ramp Entrance And Exit Details shall be used for traffic control

Revised BP 2/29/16

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0901(171)18	C2	C7

TEMPORARY PAVEMENT MARKING

Temporary Pavement Marking shall be used for edge lines and skips when edge lines and skips are removed, until permanent markings are in place, and as directed by the Engineer.

The Contractor shall be responsible for maintaining visible and reflective pavement markings throughout the project. Any pavement marking covered or damaged shall be replaced prior to the end of the day.

All costs for furnishing, applying, and maintaining the temporary pavement marking shall be included in the contract unit price per foot per 4" line or equivalent for Temporary Pavement Marking.

Str. No.'s 41-160-084 & 41-162-082 – 558'
 Str. No.'s 41-200-089 & 41-214-099 – 746'
 Str. No.'s 41-214-098 & 41-200-088 – 746'
 Str. No.'s 41-161-082 & 41-160-083 – 558'

Total = 2,608'

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 shall provide the Engineer with pertinent information 7 days prior to any phase change or any other major changes that affect traffic flow.

CONTRACTOR FURNISHED PORTABLE CHANGEABLE MESSAGE SIGN

The Contractor Furnished Portable Changeable Message Signs on this project are to be used to inform the travelling public 1 week prior to work startup.

CONTRACTOR FURNISHED SPEED MONITORING RADAR TRAILER

The Contractor shall provide 4 speed trailers to monitor traffic speeds on designated routes at locations specified in the field by the Engineer.

The radar speed feedback sign assembly shall include a speed limit sign mounted in conjunction with the radar speed feedback display. The speed display shall not flash either the vehicle speeds exceeding the speed limit or any other messages.

All costs associated with furnishing, maintaining, transporting, relocating if necessary, and removing the speed trailers from locations specified by the Engineer shall be included in the contract unit price per each for Contractor Furnished Speed Monitoring Radar Trailer.

OVERWIDTH DETOUR SIGNING

Details of the approximate location of the Overwidth Detour Signing are as shown in these plans. Prior to installing the signs, the Contractor shall mark out the sign locations and review them with the Engineer.

Overwidth Detour Signing shall be furnished and installed by the Contractor as detailed in these plans. 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 shall remove the Overwidth Detour Signing. Overwidth Detour Signing shall be installed on fixed location, ground mounted, breakaway supports.

Payment for furnishing, installing, maintaining, adjusting to correspond with the work being completed, and removing the signs and the hardware shall be incidental to the contract unit price per square foot for "Detour Signing"

ITEMIZED LIST FOR DETOUR SIGNING

SIGN CODE	SIGN DESCRIPTION	EXPRESSWAY / INTERSTATE			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
SPECIAL	OVERWIDTH VEHICLES	16	60" x 48"	20	320
SPECIAL	WIDTH RESTRICTION ___ FT WIDE ___ MILES AHEAD	2	96" x 84"	56	112
SPECIAL	VEHICLES OVER ___ FT WIDE EXIT HERE	2	84" x 36"	21	42
EXPRESSWAY / INTERSTATE					474
DETOUR SIGNING SQFT					

TRUCK OR TRAILER MOUNTED CRASH ATTENUATOR

A Truck or Trailer Mounted Crash Attenuator shall be utilized at the beginning of the work areas. The attenuators shall be used when workers are present and shall be removed from the roadway at the end of each working day. A Type 3 Barricade shall be placed in front of the work area in the absence of the Truck or Trailer Mounted Crash Attenuator (when workers are not present). The crash attenuator shall meet or exceed NCHRP 350 Test Level 3 criteria or current MASH requirements.

The Attenuator(s) will remain the property of the Contractor at the end of the project. Depending on how the Contractor chooses to complete the work locations, multiple attenuators may be required. There are The cost for the Truck or trailer Mounted Crash Attenuator(s) shall be incidental to the contract lump sum price for Traffic Control Miscellaneous.

ITEMIZED LISTS FOR TRAFFIC CONTROL DEVICES

Str. No.'s 41-160-084 & 41-162-082 - I-90 eastbound over St. Onge Road & Polo Creek

SIGN CODE	SIGN DESCRIPTION	EXPRESSWAY / INTERSTATE			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
R2-1	SPEED LIMIT ___	6	36" x 48"	12	72
R2-6aP	FINES DOUBLE (plaque)	1	36" x 24"	6	6
W3-5	SPEED REDUCTION AHEAD (___ MPH)	3	48" x 48"	16	48
W4-2	LEFT or RIGHT LANE ENDS (symbol)	2	48" x 48"	16	32
W20-1	ROAD WORK AHEAD	2	48" x 48"	16	32
W20-5	LEFT or RIGHT LANE CLOSED AHEAD	2	48" x 48"	16	32
W20-7	FLAGGER (symbol)	1	48" x 48"	16	16
G20-2	END ROAD WORK	1	48" x 24"	8	8
EXPRESSWAY / INTERSTATE					246
TRAFFIC CONTROL SIGNS SQFT					

TYPE 3 BARRICADES

ITEM DESCRIPTION	QUANTITY
Type 3 Barricade, 8' Double Sided	1 Each

ARROW BOARDS

ITEM DESCRIPTION	QUANTITY
Type C Arrow Board	1 Each

Str. No.'s 41-200-089 & 41-214-099 - I-90 eastbound over railroad & Whitewood Creek

SIGN CODE	SIGN DESCRIPTION	EXPRESSWAY / INTERSTATE			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
R1-2	YIELD	1	60" x 60"	25	25
R2-1	SPEED LIMIT ___	7	36" x 48"	12	84
R2-6aP	FINES DOUBLE (plaque)	1	36" x 24"	6	6
W3-2	YIELD AHEAD (symbol)	1	48" x 48"	16	16
W3-5	SPEED REDUCTION AHEAD (___ MPH)	3	48" x 48"	16	48
W4-1	MERGE (symbol)	2	48" x 48"	16	32
W4-2	LEFT or RIGHT LANE ENDS (symbol)	2	48" x 48"	16	32
W20-1	ROAD WORK AHEAD	3	48" x 48"	16	48
W20-5	LEFT or RIGHT LANE CLOSED AHEAD	2	48" x 48"	16	32
W20-7	FLAGGER (symbol)	1	48" x 48"	16	16
G20-2	END ROAD WORK	2	48" x 24"	8	16
SPECIAL	EXIT WITH ARROW	1	36" x 32"	8	8
EXPRESSWAY / INTERSTATE					363
TRAFFIC CONTROL SIGNS SQFT					

TYPE 3 BARRICADES

ITEM DESCRIPTION	QUANTITY
Type 3 Barricade, 8' Double Sided	1 Each

ARROW BOARDS

ITEM DESCRIPTION	QUANTITY
Type C Arrow Board	1 Each

Revised BP 2/29/16

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0901(171)18	C3	C7

Str. No.'s 41-214-098 & 41-200-088 - I-90 westbound over Whitewood Creek & railroad

SIGN CODE	SIGN DESCRIPTION	EXPRESSWAY / INTERSTATE			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
R1-2	YIELD	1	60" x 60"	25	25
R2-1	SPEED LIMIT ___	7	36" x 48"	12	84
R2-6aP	FINES DOUBLE (plaque)	1	36" x 24"	6	6
W3-2	YIELD AHEAD (symbol)	1	48" x 48"	16	16
W3-5	SPEED REDUCTION AHEAD (___ MPH)	3	48" x 48"	16	48
W4-1	MERGE (symbol)	2	48" x 48"	16	32
W4-2	LEFT or RIGHT LANE ENDS (symbol)	2	48" x 48"	16	32
W20-1	ROAD WORK AHEAD	3	48" x 48"	16	48
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EXPRESSWAY / INTERSTATE					363
TRAFFIC CONTROL SIGNS SQFT					

TYPE 3 BARRICADES

ITEM DESCRIPTION	QUANTITY
Type 3 Barricade, 8' Double Sided	1 Each

ARROW BOARDS

ITEM DESCRIPTION	QUANTITY
Type C Arrow Board	1 Each

Str. No.'s 41-161-082 & 41-161-082 - I-90 westbound over Polo Creek & St. Onge Road

SIGN CODE	SIGN DESCRIPTION	EXPRESSWAY / INTERSTATE			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
R2-1	SPEED LIMIT ___	6	36" x 48"	12	72
R2-6aP	FINES DOUBLE (plaque)	1	36" x 24"	6	6
W3-5	SPEED REDUCTION AHEAD (___ MPH)	3	48" x 48"	16	48
W4-2	LEFT or RIGHT LANE ENDS (symbol)	2	48" x 48"	16	32
W20-1	ROAD WORK AHEAD	2	48" x 48"	16	32
W20-5	LEFT or RIGHT LANE CLOSED AHEAD	2	48" x 48"	16	32
W20-7	FLAGGER (symbol)	1	48" x 48"	16	16
G20-2	END ROAD WORK	1	48" x 24"	8	8
EXPRESSWAY / INTERSTATE					246
TRAFFIC CONTROL SIGNS SQFT					

TYPE 3 BARRICADES

ITEM DESCRIPTION	QUANTITY
Type 3 Barricade, 8' Double Sided	1 Each

ARROW BOARDS

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Type C Arrow Board	1 Each

