



# Department of Transportation

## Office of Project Development

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January 25, 2016

### ADDENDUM NO. 1

**RE: Item #11, February 3, 2016 Letting - IM-NH-P 0022(55), PCN 056J, Lake, Lincoln, Minnehaha, Turner County - Asphalt Concrete Crack Sealing**

#### 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:** NO CHANGE

**PLANS:** Please destroy sheet 10 and replace with the enclosed sheet, dated 1/15/16.

**Sheet 10:** ASPHALT CONCRETE CRACK SEALING note was revised.

Sincerely,

Sam Weisgram  
Engineering Supervisor

SW/cj

CC: Craig Smith, Mitchell Region Engineer  
Travis Dressen, Sioux Falls Area Engineer

01/15/2016 BVD

**COORDINATION BETWEEN CONTRACTORS**

A separate contract for Project P 00 22(53) - P CN 053J will be awarded to another Contractor for a asphalt surface treatment on SD11 from MRM 74.71 +0.095 to MRM 76.00 + 0.991, SD 11 from MRM 82.22 +0.050 to MRM 90.77 +0.077 and on SD19 from MRM 73.73 + 0.005 to MRM 87.35 +0.000. The crack sealing shall be done on these routes prior to July 1, 2016.

The Contractor shall schedule his work so as not to interfere with or hinder the progress of the work performed by other Contractors on the asphalt surface treatment project.

**ASPHALT CONCRETE CRACK SEALING -I29**

Only the top of the road shall be routed and sealed on the crossroad on I29 at MRM 96.48 +0.000. Both shoulders shall be routed and sealed on I-29. No crack sealing shall be performed in areas where pavement is distressed; these areas will be identified by Engineer and repaired at a later date. No routing or crack sealing shall be performed on the level.

**ASPHALT CONCRETE CRACK SEALING**

Only the top of the road shall be routed and sealed. No routing and sealing shall be done on the Asphalt Concrete level.

The width of crack sealing will vary but the typical roadway widths for information only are as follows:

Project	Width
Interstate 29	See Detail
SD Hwy 11 South Segment	28 Feet
SD Hwy 11 Middle Segment	40 Feet
SD Hwy 11 North Segment	40 Feet
SD Hwy 19 South Segment	28 Feet
SD Hwy 19 North Segment	28 Feet
SD Hwy 115	32 Feet

All other requirements stated in Section 350 shall apply, with the exceptions listed below:

The crack sealant material for this project shall be from one of the listed below:

Product	Manufacturer
Deery 101 ELT Hot Poured Elastic Joint Sealer ASTM D-6690 Type IV (Modified) Weight per gallon can exceed 9.35# Resilience 30-60%	Crafco, Inc. Chandler, AZ 602-276-0406 <a href="http://www.crafco.com">http://www.crafco.com</a> Notes: Crafco, Inc. purchased Deery American Corp. on December 29, 2010
W.R. Meadows 3405-M Hot Poured Elastic Joint Sealer ASTM D-6690 Type IV	W.R. Meadows Hampshire, IL 800-342-5976 <a href="http://www.wrmeadows.com">http://www.wrmeadows.com</a>

**TABLE OF LONGITUDINAL AND TRANSVERSE CRACKS**

PROJECT	LONGITUDINAL	TRANSVERSE
Interstate 29	5%	95%
SD Hwy 11 South Segment	75%	25%
SD Hwy 11 Middle Segment	5%	95%
SD Hwy 11 North Segment	5%	95%
SD Hwy 19 South Segment	30%	70%
SD Hwy 19 North Segment	5%	95%
SD Hwy 115	70%	30%

**PERMANENT PAVEMENT MARKING**

The application of permanent pavement marking may not begin until 7 calendar days following completion of the crack seal and shall be completed within 14 calendar days following completion of the crack seal.

Marking eight inch edgelines and gore areas shall require the use of two spray nozzles to achieve the required width. Marking twelve inch gore lines shall require the use of three spray nozzles to achieve the required width.

The Contractor will be required to repaint all existing pavement marking including centerline, edgeline, dashed edgelines, dashed lane lines, lane lines, turn lanes, gore areas, etc.

Flush sealing shall not be allowed as an option for correction of markings that are not within tolerance due to the occurrence of shadow through.

The following table contains locations of existing pavement marking to be painted by hand.

**TABLE OF HAND PAINTED PAVEMENT MARKING**

PROJECT	LOCATION
SD Hwy 19 S Segment	Turn Lanes at the following Junctions: US18\285 <sup>th</sup> Street & SD44
SD Hwy 115	24" Stop line at US18

**COLD WEATHER WATERBORNE PAINT**

Waterborne paint applied after October 15 shall be formulated as cold-weather waterborne paint and shall be applied in accordance with the manufacturer's recommendations, including minimum temperature requirements.

Cold-weather waterborne paint shall conform to Section 980 of the Specifications except for the following:

980.1: Resin Binder shall be FASTRACK™ XSR™ manufactured by Dow, or an approved equal.

980.1 A. Quantitative Requirements:

Pigment, percent by weight: 60.0 to 63.0 for white and 58.5 to 61.5 for yellow.

Pigment, percent by weight; tested in accordance with ASTM D3723: 60.0 to 63.0 for white and 56.1 to 59.2 for yellow.

Non-volatile Vehicle, percent by weight; tested in accordance with NIST 141C (Method 4051.1): 41.5 minimum for white and 41.5 minimum for yellow.

**TABLES OF PERMANENT PAVEMENT MARKING**

SD11 South Segment	White	Yellow
Yellow Centerline Dashes = 9.006 miles @ 4.6 Gal/Mile		41.4
Solid Yellow Centerline = 1.489 miles @ 16.9 Gal/Mile		25.2
Solid White Edgelines = 1 (4" line) X 18.012 miles @ 16.9 Gal/Mile	304.4	
<b>TOTAL GALLONS</b>	<b>304</b>	<b>66</b>

SD19 South Segment	White	Yellow
Yellow Centerline Dashes = 7.553 miles @ 4.6 Gal/Mile		34.7
Solid Yellow Centerline = 1.263 miles @ 16.9 Gal/Mile		21.3
Solid Yellow for Gore Areas = 93 SqFt = 0.106 miles (4" equivalent) @ 16.9 Gal/Mile		1.8
Solid Yellow for 24" cross hatching in turn lanes = 127 SqFt = 0.144 miles (4" equivalent) @ 16.9 Gal/Mile		2.4
Left Turn Arrows = 6 @ .5 gallons each	3.0	
Solid White lane divider lines = 1 (4" line) X 0.060 miles @ 16.9 Gal/Mile	1.0	
Solid White Edgelines = 1 (4" line) X 16.214 miles @ 16.9 Gal/Mile	274.0	
<b>TOTAL GALLONS</b>	<b>278</b>	<b>60</b>

SD115	White	Yellow
Yellow Centerline Dashes = 8.630 miles @ 4.6 Gal/Mile		39.7
Solid Yellow Centerline = 1.435 miles @ 16.9 Gal/Mile		24.3
Solid White for 24" Stop line = 26.0 Sq Ft = .015 miles (4" equivalent) @ 16.9 miles per gallon	0.3	
Solid White Edgelines = 1 (4" line) X 17.522 miles @ 16.9 Gal/Mile	296.1	
<b>TOTAL GALLONS</b>	<b>296</b>	<b>64</b>