



# Department of Transportation

## Office of Project Development

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November 25, 2015

### ADDENDUM NO. 1

**RE: Item #2, December 2, 2015 Letting - P 0037(119)129, PCN 0232, Beadle County  
- PCC Overlay**

### 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 F3 and replace with the enclosed sheet, dated 11/25/15.

**Sheet F3:** PCC OVERLAY note was revised.

Sincerely,

Sam Weisgram  
Engineering Supervisor

SW/cj

CC: Jeff Senst, Aberdeen Region Engineer  
Brad Letcher, Huron Area Engineer

Revised 11-25-2015 LLH

**TABLE OF GEOTEXTILE BOND BREAKER FABRIC**

Location	Geotextile Bond Breaker Fabric SqYd
Mainline	
Sta. 0+44 to Sta. 203+00.42	99,032

**PCC OVERLAY CENTERLINE PROFILE**

The PCC Overlay centerline profile shall be constructed with a minimum of 5 inches of PCC at all locations.

The PCC Overlay, Furnished, quantity shown in these plans shall be used for bidding purposes only.

The Contractor shall create a PCC Overlay centerline profile in accordance with the Special Provision for Contractor Staking.

**PCC OVERLAY**

The fine and coarse aggregate may require screening as determined by the Engineer.

Refer to the list of known fine aggregate sources and the average corresponding 14 day expansion values.

The concrete mix shall conform to the Special Provision for Contractor Furnished Mix Design for PCC Pavement.

The transverse contraction joints shall be perpendicular to the centerline as detailed in the special detail for PCC Pavement Typical Contraction Joint Spacing and standard plate for PCC Pavement Dowel Bar Assembly for Transverse Contraction Joints. In multilane areas the transverse contraction joints shall be perpendicular to the centerline and be in a straight line across the width of the pavement. In special situations the Engineer may pre-approve transverse contraction joints that do not meet these requirements. All nonconforming transverse contraction joints shall be removed at the Contractor's expense. Any method of placement that cannot produce these requirements shall not be allowed to continue.

The surface of the mainline paving shall be longitudinally tined. All other areas shall be tined as directed by the Engineer.

The longitudinal construction joint shall be tooled on each side of the joint provided the radius does not exceed ¼ inch. All other requirements of Section 380.3.J.7 shall apply.

The Contractor will have the following option for construction of the longitudinal joint with tie bars between the 8' shoulder and the driving lanes: In lieu of installing tie bars according to the special plate "PCC Pavement Sawed Longitudinal Joint with Tie Bars (poured Monolithically)" the Contractor will have the option to use 40" No. 5 epoxy coated deformed tie bars laying on the fabric and fastened securely to prevent movement during the paving operation. If this option is selected the number of tie bars and spacing of bars shall be according to the special plate "PCC Pavement Sawed Longitudinal Joint with Tie Bars (poured Monolithically)". The fastening system if used shall be acceptable to the Engineer.

**ALKALI SILICA REACTIVITY**

Fine aggregate shall conform to Section 800.2 D. Alkali Silica Reactivity (ASR) Requirements.

Below is a list of known fine aggregate sources and the average corresponding 14 day expansion values:

Source	Location	Expansion Value
Bachman	Winner, SD	0.335*
Bitterman	Delmont, SD	0.316*
Concrete Materials	Corson, SD	0.170
Croell	Hot Springs, SD	0.089
Croell	Wasta, SD	0.212
Emme Sand & Gravel	Oneil, NE	0.217
Fisher S&G – Mickelson Pit	E. of Nisland, SD	0.129
Fisher S&G - Vallery Pit	Nisland, SD	0.110
Fisher S&G	Rapid City, SD	0.092
Fisher S&G	Spearfish, SD	0.053
Fisher S&G	Wasta, SD	0.159
Fuchs	Pickstown, SD	0.275*
Higman	Akron, IA	0.203
Higman	Hudson, SD	0.187
Hilde	Madison, SD	0.116
Jensen	Herried, SD	0.276*
L.G. Everist	Brookings, SD	0.186
L.G. Everist	Hawarden, IA	0.166
L.G. Everist	Summit, SD	0.178
Morris	Blunt, SD	0.192
Morris - Richards Pit	Onida, SD	0.188
Myrl & Roys – Ode Pit	E Sioux Falls, SD	0.214
Myrl & Roys - Nelson Pit	NE Sioux Falls, SD	0.156
Northern Concrete Agg.	Rauville, SD	0.113
Northern Concrete Agg.	Luverne, MN	0.133
Opperman - Gunvordahl Pit	Burke, SD	0.362*
Opperman - Cahoy Pit	Herrick, SD	0.307*
Opperman - Jones Pit	Burke, SD	0.321*
Opperman - Randall Pit	Pickstown, SD	0.239
Pete Lien & Sons	Creston, SD	0.158
Pete Lien & Sons	Oral, SD	0.129
Pete Lien & Sons	Wasta, SD	0.192
Thorpe Pit	Britton, SD	0.098
Wagner Building Supplies	Pickstown (Wagner), SD	0.241
Winter Brothers- Whitehead Pit	Brookings, SD	0.197

\* These sources will require Type V cement in the concrete mix design and Class F (Modified) fly ash as specified.

The Department will use the running average of the last three known expansion test results or less for determining acceptability of source and the required Type of cement. These expansion results are reported in the preceding table. Additional testing, when requested by the Contractor, will be performed by the Department at the Contractor's expense.

The values listed in the table are intended for use in bidding. If a previously tested pit by SDDOT with acceptable test values (less than 0.250) is discovered after letting to require Type V cement (greater than 0.250) the Department will accept financial responsibility for the change from Type II to Type V cement.

Type II or Type V cement will not change the requirement for the fly ash. The cost for either type of cement shall be subsidiary to the contract item.

**TABLE OF PCC OVERLAY**

Location	PCC Overlay, Furnish CuYd	5" PCC Overlay, Placement SqYd
Mainline		
Sta. 0+44 to Sta. 203+00.42	13,773.4	90,028.5

**PAVEMENT SMOOTHNESS**

The mainline pavement from Sta. 0+44 to Sta. 201+00.42 shall be tested for smoothness in accordance with the Special Provision for IRI PCC Pavement Smoothness.

**RUMBLE STRIPS**

Rumble strips shall be placed on the outside shoulders as detailed in the details for 12 Inch Rumble Strip or Stripe in PCC Pavement on Nondivided Highway Shoulders located elsewhere in these plans. It is estimated that 7.6 miles of GRIND 12" RUMBLE STRIP OR STRIPE IN PCC PAVEMENT will be required for the shoulders.

**SAW JOINTS IN PCC PAVEMENT**

The Contractor shall saw the Transverse Contraction Joints and Sawed Longitudinal Joints as shown in the details located elsewhere in these plans.

This project will NOT require sawing of the centerline longitudinal construction joint and any transverse construction joints.

This project will NOT require sealing of the joints.

**TABLE OF SAW JOINTS IN PCC PAVMENT**

Location	Saw Joint In PCC Pavement (Transverse) Ft	Saw Joint In PCC Pavement (Longitudinal) Ft
Mainline		
Sta. 0+44 to Sta. 203+00.42	135,042.8	81,025.6
Total:	216,068.4	

**TEMPORARY GRAVEL CROSSINGS**

Included in the Estimate of Quantities are 3 temporary gravel crossings to be used if required and placed as directed by the Engineer.