



Department of Transportation

Office of Project Development

700 E Broadway Avenue

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

FAX: 605/773-6608

August 29, 2014

ADDENDUM NO. 1

RE: Item #4, September 3, 2014 Letting - IM 0903(91)174, PCN 020K, Jackson, Jones County - PCC Surfacing, PCC Overlay, AC Resurfacing of Ramps, Guardrail, & Permanent Vehicle Classification System

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.*

Quantities for Bid Item was changed:

Bid Item 380E1500 "PCC Overlay, Furnish" changed from 42,686.6 to 45,100 CuYd

PLANS: Please destroy sheets A1, F2, F10, and F11 and replace with the enclosed sheets, dated 8/26/14.

Sheets A1 & F2: Quantities for Bid Item 380E1500 "PCC Overlay, Furnish" changed from 42,686.6 to 45,100 CuYd.

Sheet F10: PCC OVERLAY CENTERLINE PROFILE note was added.

Sheet F11: TABLE OF PCC PAVEMENT was revised.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: John Forman, Pierre Region Engineer
Doug Sherman, Winner Area Engineer

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0903(91)174	A1	A3

Revised 8-26-2014 LLH

INDEX OF SHEETS

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

Surfacing – Section F

Bid Item Number	Item	Quantity	Unit
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	21.183	Mile
009E3240	Graded Centerline Staking	15.503	Mile
009E3250	Miscellaneous Staking	17.711	Mile
009E3280	Slope Staking	1.444	Mile
009E3300	Three Man Survey Crew	40.0	Hour
110E0655	Remove Interim Crossover Closure	960	Ft
110E0700	Remove 3 Cable Guardrail	2,708	Ft
110E0740	Remove 3 Cable Guardrail Anchor Assembly	22	Each
110E0745	Remove 3 Cable Guardrail Slip Base Anchor Assembly	4	Each
110E0800	Remove W Beam Guardrail End Terminal	4	Each
110E1100	Remove Concrete Pavement	14,921.9	SqYd
110E4100	Salvage 3 Cable Guardrail	1,496	Ft
110E4290	Salvage Beam Guardrail	600.0	Ft
110E4360	Salvage W Beam Guardrail Breakaway Cable Terminal	4	Each
110E6000	Remove 3 Cable Guardrail for Reset	2,676	Ft
110E6010	Remove 3 Cable Guardrail Anchor Assembly for Reset	8	Each
110E6230	Remove W Beam Guardrail for Reset	500.0	Ft
110E6260	Remove W Beam Guardrail Breakaway Cable Terminal for Reset	8	Each
120E0010	Unclassified Excavation	8,510	CuYd
120E0100	Unclassified Excavation, Digouts	388	CuYd
120E0600	Contractor Furnished Borrow	62,652	CuYd
120E6100	Water for Embankment	692.1	MGal
120E6200	Water for Granular Material	1,062.6	MGal
120E9000	Pit Run Material	3,605.5	Ton
210E3000	Ordinary Roadway Shaping	0.667	Mile
250E0010	Incidental Work	Lump Sum	LS
260E1010	Base Course	62,635.0	Ton
260E1050	Base Course, Salvaged Asphalt Mix	6,056.3	Ton
260E2030	Gravel Cushion, Salvaged	4,198.6	Ton
260E2060	Gravel Cushion, Modified	3,291.7	Ton
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	4,198.6	Ton
320E0004	PG 58-28 Asphalt Binder	950.2	Ton
320E1070	Class HR Asphalt Concrete	23,635.0	Ton
320E1200	Asphalt Concrete Composite	11,018.1	Ton
320E3000	Compaction Sample	3	Each
320E5010	Saw and Seal Shoulder Joint	160,412	Ft
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	30.2	Mile
330E0010	MC-70 Asphalt for Prime	187.2	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	37.3	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	26.5	Ton
330E2000	Sand for Flush Seal	51.1	Ton
332E0010	Cold Milling Asphalt Concrete	91,498	SqYd
380E0110	11" Nonreinforced PCC Pavement	55,511.3	SqYd
380E1500	PCC Overlay, Furnish	45,100.0	CuYd
380E1580	8" PCC Overlay, Placement	181,213.8	SqYd
380E6000	Dowel Bar	112,352	Each
380E6110	Insert Steel Bar in PCC Pavement	200	Each
380E6500	Planing PCC Pavement	240.0	SqYd
410E2600	Membrane Sealant Expansion Joint	25.0	Ft
600E0300	Type III Field Laboratory	1	Each
629E0100	3 Cable Guardrail	452	Ft
629E0110	NCHRP 350 Test Level 3 High Tension Cable Guardrail	1,696	Ft
629E0200	Reset 3 Cable Guardrail	2,676	Ft

Surfacing – Section F (Continued)

Bid Item Number	Item	Quantity	Unit
629E0290	NCHRP 350 Test Level 3 High Tension Cable Guardrail Anchor Assembly	4	Each
629E0300	3 Cable Guardrail Slip Base Anchor Assembly	8	Each
629E0410	Reset 3 Cable Guardrail Anchor Assembly	8	Each
* 629E1109	Furnish High Tension Cable Guardrail Post and Sleeve	80	Each
* 629E8010	Cable Tension Indicator	1	Each
629E9000	Crossover Closure	448	Ft
630E2110	Beam Guardrail Post and Block	64	Each
630E2205	Breakaway Cable Terminal End Post	16	Each
630E5160	Reset W Beam Rail	500.0	Ft
630E5180	Reset W Beam Guardrail Breakaway Cable Terminal	8	Each
680E0015	Edge Drain Outlet	276	Each
831E0210	Non-woven Geotextile Separator	5,564	SqYd
831E1500	Geotextile Bond Breaker Fabric	323,087	SqYd
900E5840	Permanent Vehicle Classification System	1	Each

* - Denotes Non-Participating

SPECIFICATIONS

Standard Specifications for Roads & Bridges, 2004 Edition and Required Provisions, Supplemental Specifications and Special Provisions as included in the Proposal.

Traffic Control – Section C

Bid Item Number	Item	Quantity	Unit
110E1400	Remove Pavement Marking, 4" or Equivalent	4,500	Ft
632E3600	Temporary Signage	1,514.0	SqFt
634E0010	Flagging	500	Hour
634E0100	Traffic Control	7,082	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0340	Raised Pavement Markers	15,600	Mile
634E0380	Tubular Marker	1,530	Each
634E0420	Type C Advance Warning Arrow Panel	2	Each
634E0620	Temporary Pavement Marking, Continuous 4" Edge Line	164,900	Ft
634E0630	Temporary Pavement Marking	11.3	Mile
634E1215	Contractor Furnished Portable Changeable Message Sign	3	Each

Erosion and Sediment Control – Section D

Bid Item Number	Item	Quantity	Unit
110E1690	Remove Sediment	4.0	CuYd
110E1700	Remove Silt Fence	250	Ft
230E0100	Remove and Replace Topsoil	Lump Sum	LS
730E0251	Special Permanent Seed Mixture 1	2,080	Lb
732E0100	Mulching	160.0	Ton
734E0154	12" Diameter Erosion Control Wattle	1,500	Ft
734E0165	Remove and Reset Erosion Control Wattle	375	Ft
734E0604	High Flow Silt Fence	1,000	Ft
734E0610	Mucking Silt Fence	70	CuYd
734E0620	Repair Silt Fence	250	Ft
900E1320	Construction Entrance	2	Each

Pavement Marking – Section M

Bid Item Number	Item	Quantity	Unit
633E0010	Cold Applied Plastic Pavement Marking, 4"	1,900	Ft
633E0025	Cold Applied Plastic Pavement Marking, 12"	3,900	Ft
633E1200	Waterborne Pavement Marking Paint with High Grade Polymer, White	1,126.0	Gal
633E1205	Waterborne Pavement Marking Paint with High Grade Polymer, Yellow	911.0	Gal
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	1,900	Ft
633E5010	Grooving for Cold Applied Plastic Pavement Marking, 12"	3,900	Ft
633E5100	Grooving for Durable Pavement Marking, 4"	386,661	Ft

Permanent Signage – Section S

Bid Item Number	Item	Quantity	Unit
110E5020	Salvage Traffic Sign	18	Each
632E2000	4"x4" Amber Delineator with 1.12 Lb/Ft Post	34	Each
632E2004	4"x8" Amber Delineator with 1.12 Lb/Ft Post	15	Each
632E2020	4"x4" White Delineator with 1.12 Lb/Ft Post	216	Each
632E2024	4"x8" White Delineator with 1.12 Lb/Ft Post	78	Each
632E2520	Type 2 Object Marker	3	Each

SECTION F ESTIMATE OF QUANTITIES

Bid Item Number	Item	Quantity	Unit
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	21.183	Mile
009E3240	Graded Centerline Staking	15.503	Mile
009E3250	Miscellaneous Staking	17.711	Mile
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009E3300	Three Man Survey Crew	40.0	Hour
110E0655	Remove Interim Crossover Closure	960	Ft
110E0700	Remove 3 Cable Guardrail	2,708	Ft
110E0740	Remove 3 Cable Guardrail Anchor Assembly	22	Each
110E0745	Remove 3 Cable Guardrail Slip Base Anchor Assembly	4	Each
110E0800	Remove W Beam Guardrail End Terminal	4	Each
110E1100	Remove Concrete Pavement	14,921.9	SqYd
110E4100	Salvage 3 Cable Guardrail	1,496	Ft
110E4290	Salvage Beam Guardrail	600.0	Ft
110E4360	Salvage W Beam Guardrail Breakaway Cable Terminal	4	Each
110E6000	Remove 3 Cable Guardrail for Reset	2,676	Ft
110E6010	Remove 3 Cable Guardrail Anchor Assembly for Reset	8	Each
110E6230	Remove W Beam Guardrail for Reset	500.0	Ft
110E6260	Remove W Beam Guardrail Breakaway Cable Terminal for Reset	8	Each
120E0010	Unclassified Excavation	8,510	CuYd
120E0100	Unclassified Excavation, Digouts	388	CuYd
120E0600	Contractor Furnished Borrow	62,652	CuYd
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330E0100	SS-1h or CSS-1h Asphalt for Tack	37.3	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	26.5	Ton
330E2000	Sand for Flush Seal	51.1	Ton
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380E0110	11" Nonreinforced PCC Pavement	55,511.3	SqYd
380E1500	PCC Overlay, Furnish	45,100.0	CuYd
380E1580	8" PCC Overlay, Placement	181,213.8	SqYd
380E6000	Dowel Bar	112,352	Each
380E6110	Insert Steel Bar in PCC Pavement	200	Each
380E6500	Planing PCC Pavement	240.0	SqYd
410E2600	Membrane Sealant Expansion Joint	25.0	Ft
600E0300	Type III Field Laboratory	1	Each
629E0100	3 Cable Guardrail	452	Ft
629E0110	NCHRP 350 Test Level 3 High Tension Cable Guardrail	1,696	Ft
629E0200	Reset 3 Cable Guardrail	2,676	Ft

SECTION F ESTIMATE OF QUANTITIES

Bid Item Number	Item	Quantity	Unit
629E0290	NCHRP 350 Test Level 3 High Tension Cable Guardrail Anchor Assembly	4	Each
629E0300	3 Cable Guardrail Slip Base Anchor Assembly	8	Each
629E0410	Reset 3 Cable Guardrail Anchor Assembly	8	Each
* 629E1109	Furnish High Tension Cable Guardrail Post and Sleeve	80	Each
* 629E8010	Cable Tension Indicator	1	Each
629E9000	Crossover Closure	448	Ft
630E2110	Beam Guardrail Post and Block	64	Each
630E2205	Breakaway Cable Terminal End Post	16	Each
630E5160	Reset W Beam Rail	500.0	Ft
630E5180	Reset W Beam Guardrail Breakaway Cable Terminal	8	Each
680E0015	Edge Drain Outlet	276	Each
831E0210	Non-woven Geotextile Separator	5,564	SqYd
831E1500	Geotextile Bond Breaker Fabric	323,087	SqYd
900E5840	Permanent Vehicle Classification System	1	Each

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SURFACING THICKNESS DIMENSIONS

Plans tonnage will be applied even though the thickness may vary from that shown on the plans.

At those locations where material must be placed to achieve a required elevation, plans tonnage may be varied to achieve the required elevation.

UTILITIES

The Contractor shall contact the involved utility companies through South Dakota One Call (1-800-781-7474) prior to starting work. It shall be the responsibility of the Contractor to coordinate work with the utility owners to avoid damage to existing facilities.

Utilities are not planned to be affected on this project. If utilities are identified near the improvement area through the SD One Call Process as required by South Dakota Codified Law 49-7A and Administrative Rule Article 20:25, the Contractor shall contact the Engineer to determine modifications that will be necessary to avoid utility impacts.

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0903(91)174	F2	F128

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SAWING IN EXISTING SURFACING

Where new Portland Cement Concrete Pavement (PCCP) or new asphalt concrete is placed adjacent to existing asphalt concrete or PCCP, the existing pavement shall be sawed full depth to a true line with a vertical face. No separate payment shall be made for sawing.

CONTROL OF ACCESS

If a Contractor's operations would require access to the interstate ROW in any locations not currently designated as public access, prior approval must be obtained from the Department. All requests will be reviewed on the basis of safety and construction sequencing. A contractor shall not assume that all requests will be granted.

The Contractor shall be responsible for all safety control and signing measures.

The request for access shall be provided in writing to the Engineer two weeks in advance of any proposed break in control of access.

TYPE III FIELD LABORATORY

Substitution of a cellular telephone for the hard-wired touch-tone telephone is not allowed, as state personnel need the ability to download information over direct phone lines. The phone is intended for state personnel usage only. Contractor personnel are prohibited from using this phone unless pre-approved by the Project Engineer. It is the responsibility of the Contractor to contact Golden West Telecommunications prior to bidding to ensure the plant site area where the lab will be placed is able to have a hard wired phone connection.

The lab shall be equipped with an internet connection such as DSL, cable modem, or other approved service. The internet connection shall be provided with a multi-port wireless router. The internet connection shall be a minimum speed of 512 Kb unless limited by job location and approved by the DOT. Prior to installing the wireless router the Contractor shall submit the wireless router's technical data to the Area Office to check for compatibility with the state's computer equipment. The internet connection is intended for state personnel usage only. The Contractor's personnel are prohibited from using the internet connection unless pre-approved by the Project Engineer.

The Contractor shall submit a copy of each monthly bill for calls charged to this phone at the completion of the project. The Project Engineer will then audit the bills to ensure all calls are legitimate and then initiate a Construction Change Order (CCO) to reimburse the Contractor for the actual phone calls made, including local and long distance calls. Reimbursement will not be made for fees associated with the purchase, installation, disconnection, monthly line charges, and incidentals involved in the installation, maintenance, and disconnection of the phone (including attachments). These items shall be incidental to the contract unit price per each for TYPE III FIELD LABORATORY.

PCC OVERLAY CENTERLINE PROFILE

The PCC Overlay centerline profile shall be constructed with a minimum of 7.8 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.

11" NONREINFORCED CONCRETE PAVEMENT AND PCC OVERLAY

The fine aggregate shall be screened over a 1 inch square opening screen just prior to introduction into the concrete paving mix. The Contractor will screen all of the aggregate to prevent the incorporation of foreign materials (i.e.: mud balls) into the concrete mix.

The concrete mix shall conform to the special provision for Contractor Furnished Mix Design for PCC Pavement.

There will be no direct payment for trimming of the Gravel Cushion for PCC pavement. The trimming will be considered incidental to the related items required for PCC Pavement. Trimming shall be performed as required by Section 380.3 C. of the Specifications.

A minimum of 2 pavement blockouts may be required at various locations on the project to facilitate traffic during the paving activity.

Automatic dowel bar inserters will not be allowed on this project.

A construction joint will be sawed whenever new concrete pavement is placed adjacent to existing concrete pavement.

The transverse contraction joints shall be perpendicular to the centerline as detailed in the special detail for PCC Pavement Transverse 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.

In addition to traditional field inspection of reinforcement, a Ground Penetrating Radar (GPR) unit may be used to verify reinforcement locations in the hardened concrete. The GPR may be used any time prior to the Acceptance of Field Work being issued. All costs related to corrective measures, including but not limited to concrete removal or cutting of reinforcement, price deducts, and delays to the project schedule shall be the responsibility of the Contractor.

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

ALKALI SILICA REACTIVITY -

Fine aggregate shall conform to Section 800.2.D Alakali 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	Quinn, SD	0.089
Emme Sand & Gravel	Oneil, NE	0.217
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	0.198
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 Paving- Nelson Pit	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.

PAVEMENT SMOOTHNESS

The following locations will be tested for smoothness in accordance with the special provision for IRI PCC Pavement Smoothness:

I 90 - Sta. 446+00.91 to Sta. 799+83.68 (2nd) Thru Equations (Driving and Passing Lanes)

The following locations shall be tested for smoothness with a Contractor furnished and operated 25 foot California style profilograph in accordance with the Special Provision for PI PCC Pavement Smoothness with 0.2" Blanking Band:

Exit 177 On Ramp Acceleration Lane
Exit 183 On Ramp Acceleration Lane
Rest Area Site On Ramp Acceleration Lane

TIE BARS AND LONGITUDINAL JOINTS

The use of automatic tie bar inserters will only be allowed on the vertical edge of longitudinal construction joints. The use of automatic tie bar inserters will not be allowed on sawed longitudinal joints.

Tie bars or tie bar baskets shall be held in the specified position parallel to the slab surface and perpendicular to the centerline by a supporting device. Tie bars or tie bar baskets shall be securely staked to the roadbed and shall hold the bar at the correct spacing, alignment, and elevation.

Tie bars will not require supports if inserted into the side of the pavement during slip form paving of the longitudinal construction joint operation. Failure to acquire the correct tie bar locations in the construction joint shall require the bars to be corrected and a change made to the operation which may include drilling and epoxy bars or other methods as approved by the Engineer.

The final position of each tie bar shall be within the following tolerances:

-- Vertical Placement: $\pm T/6$ for any part of the tie bar (T = slab thickness)

-- Transverse Placement (side shift): ± 3 inches when measured perpendicular to the longitudinal joint line.

If the tie bar does not meet the requirements and tolerances specified, corrective action shall be performed at the Contractor's expense to the satisfaction of the Engineer.

RUMBLE STRIPS

Rumble Strips for the median and outside shoulders shall be constructed as per Special Details for 12" Rumble Strip In Asphalt Concrete On Interstate Shoulders. Payment for forming rumble strips, on the shoulders, including labor, materials and incidentals shall be at the contract unit price per mile for GRIND 12" RUMBLE STRIP OR STRIPE IN ASPHALT CONCRETE. It is estimated that 15.2 miles of asphalt concrete rumble strip will be required for the median shoulder and 15.0 miles for outside shoulder

Revised 8-26-2014 LLH

TABLE OF GEOTEXTILE BOND BREAKER FABRIC

Location	Geotextile Bond Breaker Fabric SqYd
I 90 Eastbound Lanes	
Mainline	
Sta. 449+40.9 to Sta. 152+98 (2 nd) Thru Equation	86,464.2
Sta. 161+02 (2 nd) to Sta. 310+72.24 (2 nd)	76,514.7
Sta. 319+43.35 (2 nd) to Sta. 469+08.74 (2 nd) Thru Equation	76,275.7
Sta. 478+05.04 (2 nd) to Sta. 585+96.64 (2 nd) Thru Equation	54,937.0
Sta. 594+76.06 (2 nd) to Sta. 608+06.89 (2 nd)	6,802.0
Sta. 617+24.14 (2 nd) to Sta. 652+40.0 (2 nd)	17,970.1
Ramp Gore Areas	
Exit 177 Off Ramp Sta. 137+09.15 (2 nd) Rt. to Sta. 143+39.15 (2 nd) Rt.	814.3
Exit 177 Off Ramp Sta. 167+98.1 (2 nd) Lt. to Sta. 176+80.8 (2 nd) Lt.	1,171.1
Exit 183 ON Ramp Sta. 446+56.3 (2 nd) Lt. to Sta. 462+76.9 (2 nd) Lt.	814.3
Exit 183 Off Ramp Sta. 485+84.5 (2 nd) Lt. to Sta. 495+24.4 (2 nd) Lt.	1,323.6
Total	323,087.0

Quantity shown is the actual square yardage required with no laps

TABLE OF PCC PAVEMENT

Location	PCC Overlay, Furnish CuYd	8" PCC Overlay, Placement SqYd	11" Nonreinforced PCC Pavement SqYd
I 90 Eastbound Lanes			
Sta. 446+00.91 to Sta. 449+40.90	---	---	944.4
Sta. 449+40.90 to Sta. 152+98 (2 nd) Thru Eq.	11,722.6	46,991.3	---
Sta. 152+98 (2 nd) to Sta. 161+02 (2 nd)	---	---	2,233.3
Sta. 161+02 (2 nd) to Sta. 310+72.24 (2 nd)	10,373.6	41,584.0	---
Sta. 310+72.24 (2 nd) to Sta. 314+12.24 (2 nd)	---	---	944.4
Sta. 316+03.35 (2 nd) to Sta. 319+43.35 (2 nd)	---	---	944.4
Sta. 319+43.35 (2 nd) to Sta. 469+08.74 (2 nd) Thru Eq.	10,341.3	41,454.1	---
Sta. 469+08.74 (2 nd) to Sta. 472+48.74 (2 nd)	---	---	944.4
Sta. 474+65.04 (2 nd) to Sta. 478+05.04 (2 nd)	---	---	944.4
Sta. 478+05.04 (2 nd) to Sta. 585+96.64 (2 nd) Thru Eq.	7,448.2	29,857.0	---
Sta. 585+96.64 (2 nd) to Sta. 589+36.64 (2 nd)	---	---	944.4
Sta. 591+36.06 (2 nd) to Sta. 594+76.06 (2 nd)	---	---	944.4
Sta. 594+76.06 (2 nd) to Sta. 608+06.89 (2 nd)	922.2	3,696.8	---
Sta. 608+06.89 (2 nd) to Sta. 611+46.89 (2 nd)	---	---	944.4
Sta. 613+84.14 (2 nd) to Sta. 617+24.14 (2 nd)	---	---	944.4
Sta. 617+24.14 (2 nd) to Sta. 652+40 (2 nd)	2,436.3	9,766.3	---
Sta. 652+40 (2 nd) to Sta. 799+83.68 (2 nd)	---	---	40,954.7
Ramp Gore Areas			
Exit 177 Off Ramp Sta. 137+09.15 (2 nd) Rt. to Sta. 146+01.85 (2 nd) Rt.	358.1	1,517.3	---
Exit 177 On Ramp Sta. 168+16.78 (2 nd) Rt. to Sta. 184+37.38 (2 nd) Rt.	537.3	2,277.1	---
Exit 183 Off Ramp Sta. 453+73.36 (2 nd) Rt. to Sta. 462+66.06 (2 nd) Rt.	358.1	1,517.3	---
Exit 183 On Ramp Sta. 484+12.87 (2 nd) Rt. to Sta. 501+16.43 (2 nd) Rt.	602.3	2,552.6	---
Rest Area Off Ramp Sta. 684+95.63 (2 nd) Rt. to Sta. 692+93.30 (2 nd) Rt.	---	---	1,532.0
Rest Area On Ramp Sta. 710+26 (2 nd) Rt. to Sta. 726+51.75 (2 nd) Rt.	---	---	2,291.7
Totals	45,100.0	181,213.8	55,511.3