

RECEIVED
 SEP 18 2012
 BY: PST Received

WILLIAMSON COUNTY, TEXAS
 CHANGE ORDER NUMBER: 18

- 1. CONTRACTOR: J.D. Ramming Paving Co., LTD.
- 2. Change Order Work Limits: Sta. 537+93 to Sta. 766+27
- 3. Type of Change (on federal-aid non-exempt projects): Minor (Major/Minor)
- 4. Reasons: 1A, 3M (3 Max. - In order of importance - Primary first)

Project: 10WC817
 Roadway: US 79 Section 3
 CSJ Number: 0204-02-027, etc.

5. Describe the work being revised:

1A: Design Error or Omission. Incorrect PS&E. In accordance with Article 4.2 of the Standard Specifications, this Change Order adds a Contract item to adjust the unit price of Item 310-2005 Prime Coat due to significant underrun in the contract quantity actually placed on the project. The contract quantity was too high due to overestimation on the application rate that would be required. With the final quantity only 39.28% of the contract quantity, Article 4.2 specifies an increase of 15% to the contract price for the quantities placed, which is an additional \$0.49/gal. **3M: County Convenience. Other.** As required by Item 585, this Change Order also adds a Contract item to adjust the amount of compensation to be paid to the Contractor in proportion to the ride quality of the final asphalt surface on the project.

- 6. Work to be performed in accordance with Items: 585
- 7. New or revised plan sheet(s) are attached and numbered: N/A
- 8. New Special Provisions to the contract are attached: Yes No
- 9. New Special Provisions to Item N/A No. N/A, Special Specification Item N/A are attached.

Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

<p><i>The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.</i></p> <p>THE CONTRACTOR Date <u>9-12-2012</u></p> <p>By <u>[Signature]</u></p> <p>Typed/Printed Name <u>ROD PEKURNEY</u></p> <p>Typed/Printed Title <u>PROJ MGR</u></p>	<p>The following information must be provided:</p> <p>Time Ext. #: <u>N/A</u> Days added on this CO: <u>0</u></p> <p>Amount added by this change order: <u>\$15,632.20</u></p>
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RECOMMENDED FOR EXECUTION:

[Signature] P.E. 9/17/12
 Project Manager Date

N/A
 Design Engineer Date

[Signature] 9/18/2012
 Program Manager Date

Design Engineer's Seal:
N/A

County Commissioner Precinct 1 Date
 APPROVED REQUEST APPROVAL

County Commissioner Precinct 2 Date
 APPROVED REQUEST APPROVAL

County Commissioner Precinct 3 Date
 APPROVED REQUEST APPROVAL

County Commissioner Precinct 4 Date
 APPROVED REQUEST APPROVAL

County Judge Date
 APPROVED

CHANGE ORDER REASON(S) CODE CHART

1. Design Error or Omission	1A. Incorrect PS&E 1B. Other
2. Differing Site Conditions (unforeseeable)	2A. Dispute resolution (expense caused by conditions and/or resulting delay) 2B. Unavailable material 2C. New development (conditions changing after PS&E completed) 2D. Environmental remediation 2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9) 2F. Site conditions altered by an act of nature 2G. Unadjusted utility (unforeseeable) 2H. Unacquired Right-of-Way (unforeseeable) 2I. Additional safety needs (unforeseeable) 2J. Other
3. County Convenience	3A. Dispute resolution (not resulting from error in plans or differing site conditions) 3B. Public relations improvement 3C. Implementation of a Value Engineering finding 3D. Achievement of an early project completion 3E. Reduction of future maintenance 3F. Additional work desired by the County 3G. Compliance requirements of new laws and/or policies 3H. Cost savings opportunity discovered during construction 3I. Implementation of improved technology or better process 3J. Price adjustment on finished work (price reduced in exchange for acceptance) 3K. Addition of stock account or material supplied by state provision 3L. Revising safety work/measures desired by the County 3M. Other
4. Third Party Accommodation	4A. Failure of a third party to meet commitment 4B. Third party requested work 4C. Compliance requirements of new laws and/or policies (impacting third party) 4D. Other
5. Contractor Convenience	5A. Contractor exercises option to change the traffic control plan 5B. Contractor requested change in the sequence and/or method of work 5C. Payment for Partnering workshop 5D. Additional safety work/measures desired by the contractor 5E. Other
6. Untimely ROW/Utilities	6A. Right-of-Way not clear (third party responsibility for ROW) 6B. Right-of-Way not clear (County responsibility for ROW) 6C. Utilities not clear 6D. Other

Williamson County Road Bond Program

**US 79 Section 3
Williamson County Project No. 10WC817**

Change Order No. 18

Reason for Change

Item 310-2005 Prime Coat has been completed and the required quantity is only 39.28% of the original quantity in the plans. The discrepancy between the plans estimate and the actual required amount is due to an overestimation of the application rate which would be required. In accordance with Article 4.2 of the TxDOT Standard Specifications, an adjustment of the unit price is due when the quantity of work completed on any major item is less than 75% of the original contract quantity. For a final quantity between 25% and 50% of the original contract quantity, a 15% increase in the unit price can be requested. The additional 15% compensation for Item 310-2005 Prime Coat is \$0.49/gal. This Change Order adds a new Contract Item in order to make this additional compensation to the Contractor.

As required by Item 585 Ride Quality for Pavement Surfaces, this Change Order also adds a new Contract Item to adjust the amount of compensation to be paid to the Contractor in proportion to the ride quality of the final hot mix asphalt pavement surface. Specific job control tests were run on the asphalt (see attached back-up documentation) to measure the ride quality of the mix. Using the results of these tests in conjunction with TxDOT formulas as outlined in the specifications, the Contractor was either awarded a bonus or assessed a penalty.

Following is a summary of the new items required for this Change Order:

ITEM	DESCRIPTION	QTY	UNIT
310-WC01	PRIME COAT (MC-30 OR AE-P) ADD'L COMPENSATION	16,780.00	GAL
585-WC01	RIDE QUALITY BONUS/PENALTY	7,410.00	DOL

This Change Order results in a net increase of \$15,632.20 to the Contract amount, for an adjusted total Contract amount of \$12,014,354.54. The original Contract amount was \$11,500,547.03. As a result of this and all Change Orders to date, \$513,807.51 has been added to the Contract, resulting in a 4.5% net increase in the Contract Cost. No additional days will be added to or deducted from the Contract as a result of this Change Order.

RABA-KISTNER INFRASTRUCTURE

Ron Seal, P.E.

10WC817 CO #18

Contract Item #310-2005 Prime Coat

Original Contract Quantity 42,721 Gallons

Final Construction Quantity 16,780 Gallons

% of Original Quantity 39.28%

From Table 1 of Article 4.2, Adjustment is 15%.

Original Contract Price \$3.25/gal

Addition Unit Price Due $\$3.25/\text{gal} \times 0.15 = \$0.49/\text{gal}$

party to the Contract may request an adjustment to the unit price on the portion of the work that is above 125%.

When the quantity of work to be done under any major item of the Contract is less than 75% of the original quantity stated in the Contract, then either party to the Contract may request an adjustment to the unit price. For routine maintenance Contracts only, if an adjusted unit price cannot be agreed upon, the Engineer may determine the unit price by multiplying the Contract unit price by the factor in Table 1.

Table 1
Quantity-Based Price Adjustment Factors

% of Original Quantity	Factor
≥ 50 and < 75	1.05
≥ 25 and < 50	1.15
< 25	1.25

*

If the changes require additional working days to complete the Contract, Contract working days will be adjusted in accordance with Item 8, "Prosecution and Progress."

4.3. Differing Site Conditions. During the progress of the work, differing subsurface or latent physical conditions may be encountered at the site. The two types of differing site conditions are defined as:

- those that differ materially from those indicated in the Contract and
- unknown physical conditions of an unusual nature differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the Contract.

Notify the Engineer in writing when differing site conditions are encountered. The Engineer will notify the Contractor when the Department discovers differing site conditions. Unless directed otherwise, suspend work on the affected items and leave the site undisturbed. The Engineer will investigate the conditions and determine whether differing site conditions exist. If the differing site conditions cause an increase or decrease in the cost or number of working days specified for the performance of the Contract, the Engineer will make adjustments, excluding the loss of anticipated profits, in accordance with the Contract. Additional compensation will be made only if the required written notice has been provided.

4.4. Requests and Claims for Additional Compensation. Notify the Engineer in writing of any intent to request additional compensation once

ROAD SURFACE PROFILER TABLE

CSJ: 0204-02-027
Roadway: US 79
Date: 5/1/2012
Contractor: Ramming- Austin

Profiler: Mitchell Crawford
Company: PaveTex Engineering and Testing, Inc.
Spec: 585
Pay: 3

File Name	Direction	Lane	Start Sta.	Bonus/Penalty	Remarks
US79WBL2	WB	L2	770+62	\$ 2,930.00	
US79WBL3	WB	L3	770+62	\$ 2,000.00	
US79EBR2	EB	R2	539+60	\$ 1,460.00	
US79EBR3	EB	R3	539+60	\$ 1,020.00	
				<u>\$ 7,410.00</u>	



Model: DYNATEST RSP 5051 MARK III
 S/N: 5051-03-041
 VIN: IFMRE11W96HA30184
 Date: 02/14/2012


PROFILER OPERATOR CERTIFICATION

Be it known that Mitchell Crawford, having passed the Profiler Operator Certification Test as prescribed in Texas Test Method Tex-1001S, is hereby certified to operate an inertial profiler for quality assurance of pavement smoothness in Texas, subject to the restrictions given below:



Inertial Profiler Model(s) on which certification is valid: Dynatest RSP 5051 Mark III

Issue Date: June 30, 2011
 Expiration Date: June 30, 2014
 unless earlier revoked by the Texas Department of Transportation because of misuse.

Operator Serial Number: 2011-9286



 Operator



Emanuel Sanchez, P.E.
 Certification Agency Representative

5/1/12 DIT
 Jimmy Colman

US 79 QA

Westbound Inside Lane

Ride Quality Analysis Rel 2008.11.11

TxDOT Smoothness Specification 585 Pay Schedule 3

Report run on Tuesday May 1 2012 11:55:25AM

Input profile data file created Tuesday May 1 2012 11:51:30AM

District 14	Highway US79
Area Office N. Austin	Beg RM 0000+00.000
County 246	Beg Station 0770+62.0
CSJ 0204-02-027	Lane roadbed L2
Phone 512-858-2993	Name PaveTex
Input file c:\program files\dynatest\rspwin\data\ramming-austin\2012\us 79 5-1-2012\us79wb12.pro	
Comment	
Comment	

No Bump penalties assessed.
 Bonus paid for average IRIs of 30(\$300) to 60(\$0)
 No penalties assessed for high IRIs.
 Bonus NOT paid in sections with bump.

Profile Length(Miles) 4.3945 Length(Station Units) 0232+03.0ft.

Distance	Station	Type	Width(feet)	Elev(inches)
00.2810	0755+78.3	Bump	2.0	.19
03.4187	0590+11.5	Dip	.5	-.16
03.4203	0590+03.0	Bump	.3	.15
04.3477	0541+06.3	Dip	7.5	-.35
04.3501	0540+23.3	Bump	3.3	.18

Bumps/dips detected 5

*Notes: Bumps closer than 5 feet are not shown or counted.

Bump widths shown are not a true indication of the actual bump width but rather the portion of the bump exceeding 0.15 inches from the moving average of the profile.

Distance	Station	PSI	IRI(L)	IRI(R)	Avg IRI	Pay*SectLen	Pay
00.1000	765+34.0	4.08	89.98	66.93	78.00	\$ 0*(0.1000/0.10)	\$ 0
00.2000	760+06.0	4.36	65.32	67.31	66.00	\$ 0*(0.1000/0.10)	\$ 0
00.3000	754+78.0	4.40	69.47	59.79	65.00	\$ 0*(0.1000/0.10)	\$ 0
00.4000	749+50.0	4.76	44.32	51.47	48.00	\$120*(0.1000/0.10)	\$ 120
00.5000	744+22.0	4.79	41.14	50.74	46.00	\$140*(0.1000/0.10)	\$ 140
00.6000	738+94.0	4.64	49.01	60.69	55.00	\$ 50*(0.1000/0.10)	\$ 50
00.7000	733+66.0	4.77	38.74	55.69	47.00	\$130*(0.1000/0.10)	\$ 130
00.8000	728+38.0	4.74	40.42	58.76	50.00	\$100*(0.1000/0.10)	\$ 100
00.9000	723+10.0	4.74	44.49	54.93	50.00	\$100*(0.1000/0.10)	\$ 100
01.0000	717+82.0	4.72	46.37	56.76	52.00	\$ 80*(0.1000/0.10)	\$ 80
01.1000	712+54.0	4.62	51.17	60.30	56.00	\$ 40*(0.1000/0.10)	\$ 40
01.2000	707+26.0	4.51	56.60	63.41	60.00	\$ 0*(0.1000/0.10)	\$ 0
01.3000	701+98.0	4.81	41.25	47.32	44.00	\$160*(0.1000/0.10)	\$ 160
01.4000	696+70.0	4.64	50.47	59.84	55.00	\$ 50*(0.1000/0.10)	\$ 50
01.5000	691+42.0	4.73	46.05	55.28	51.00	\$ 90*(0.1000/0.10)	\$ 90
01.6000	686+14.0	4.77	45.00	49.62	47.00	\$130*(0.1000/0.10)	\$ 130
01.7000	680+86.0	4.74	44.38	55.04	50.00	\$100*(0.1000/0.10)	\$ 100
01.8000	675+58.0	4.67	49.31	58.20	54.00	\$ 60*(0.1000/0.10)	\$ 60
01.9000	670+30.0	4.64	49.70	60.38	55.00	\$ 50*(0.1000/0.10)	\$ 50
02.0000	665+02.0	4.80	39.38	50.29	45.00	\$150*(0.1000/0.10)	\$ 150

02.1000	659+74.0	4.76	41.68	54.22	48.00	\$120*(0.1000/0.10)	\$ 120
02.2000	654+46.0	4.68	48.88	58.39	54.00	\$ 60*(0.1000/0.10)	\$ 60
02.3000	649+18.0	4.75	51.97	45.34	49.00	\$110*(0.1000/0.10)	\$ 110
02.4000	643+90.0	4.71	49.70	53.83	52.00	\$ 80*(0.1000/0.10)	\$ 80
02.5000	638+62.0	4.54	53.03	64.63	59.00	\$ 10*(0.1000/0.10)	\$ 10
02.6000	633+34.0	4.79	42.53	48.56	46.00	\$140*(0.1000/0.10)	\$ 140
02.7000	628+06.0	4.57	56.13	59.37	58.00	\$ 20*(0.1000/0.10)	\$ 20
02.8000	622+78.0	4.62	53.88	57.68	56.00	\$ 40*(0.1000/0.10)	\$ 40
02.9000	617+50.0	4.66	51.11	57.25	54.00	\$ 60*(0.1000/0.10)	\$ 60
03.0000	612+22.0	3.92	96.88	75.91	86.00	\$ 0*(0.1000/0.10)	\$ 0
03.1000	606+94.0	4.09	75.13	80.88	78.00	\$ 0*(0.1000/0.10)	\$ 0
03.2000	601+66.0	4.71	49.30	53.98	52.00	\$ 80*(0.1000/0.10)	\$ 80
03.3000	596+38.0	4.69	50.68	55.83	53.00	\$ 70*(0.1000/0.10)	\$ 70
03.4000	591+10.0	4.69	54.05	52.10	53.00	\$ 70*(0.1000/0.10)	\$ 70
03.5000	585+82.0	4.51	59.17	61.20	60.00	\$ 0*(0.1000/0.10)	\$ 0
03.6000	580+54.0	4.77	46.07	47.75	47.00	\$130*(0.1000/0.10)	\$ 130
03.7000	575+26.0	4.64	49.00	61.30	55.00	\$ 50*(0.1000/0.10)	\$ 50
03.8000	569+98.0	4.54	60.13	57.63	59.00	\$ 10*(0.1000/0.10)	\$ 10
03.9000	564+70.0	4.71	47.11	57.28	52.00	\$ 80*(0.1000/0.10)	\$ 80
04.0000	559+42.0	4.60	53.15	60.19	57.00	\$ 30*(0.1000/0.10)	\$ 30
04.1000	554+14.0	4.76	46.82	49.56	48.00	\$120*(0.1000/0.10)	\$ 120
04.2000	548+86.0	4.58	56.51	58.34	57.00	\$ 30*(0.1000/0.10)	\$ 30
04.3000	543+58.0	4.69	55.44	51.25	53.00	\$ 70*(0.1000/0.10)	\$ 70
04.3945	538+59.0	3.74	108.74	82.11	95.00	\$ 0*(0.0945/0.10)	\$ 0

Pay Adjustment Subtotal \$ 2930

Ave Left IRI 53.6 Ave Right IRI 57.9 Ave IRI 55.75

Total IRI adjustments \$ 2930

Total Bump adjustments \$ 0

Total adjustments \$ 2930

US 79 QA

Westbound Outside Lane

Ride Quality Analysis Rel 2008.11.11

TxDOT Smoothness Specification 585 Pay Schedule 3

Report run on Tuesday May 1 2012 11:56:43AM

Input profile data file created Tuesday May 1 2012 11:51:39AM

District 14	Highway US79
Area Office N. Austin	Beg RM 0000+00.000
County 246	Beg Station 0770+62.0
CSJ 0204-02-027	Lane roadbed L3
Phone 512-858-2993	Name PaveTex
Input file c:\program files\dynatest\rspwin\data\ramming-austin\2012\us 79 5-1-2012\us79wb13.pro	
Comment	
Comment	

No Bump penalties assessed.
 Bonus paid for average IRIs of 30(\$300) to 60(\$0)
 No penalties assessed for high IRIs.
 Bonus NOT paid in sections with bump.

Profile Length(Miles) 4.395 Length(Station Units) 0232+05.6ft.

Distance	Station	Type	Width(feet)	Elev(inches)
00.2827	0755+69.3	Bump	2.8	.23
03.0748	0608+27.0	Bump	.8	.18
03.0761	0608+20.0	Dip	.3	-.15
03.0790	0608+04.8	Dip	.3	-.15
03.0845	0607+76.0	Dip	.3	-.18
03.0917	0607+38.0	Bump	3.8	.20
03.0934	0607+28.8	Dip	.8	-.17
03.1000	0606+94.0	Dip	.3	-.16
03.1021	0606+82.8	Bump	.3	.17
03.1090	0606+46.5	Bump	.3	.15
03.2419	0599+45.0	Dip	.8	-.18
04.3473	0541+08.0	Dip	.3	-.18
04.3490	0540+99.5	Bump	.5	.18
04.3847	0539+11.0	Bump	2.5	.16
04.3867	0539+00.0	Dip	3.3	-.20

Bumps/dips detected 15

*Notes: Bumps closer than 5 feet are not shown or counted.

Bump widths shown are not a true indication of the actual bump width but rather the portion of the bump exceeding 0.15 inches from the moving average of the profile.

Distance	Station	PSI	IRI(L)	IRI(R)	Avg IRI	Pay*SectLen	Pay
00.1000	765+34.0	4.46	68.55	55.70	62.00	\$ 0*(0.1000/0.10)	\$ 0
00.2000	760+06.0	4.62	61.08	50.69	56.00	\$ 40*(0.1000/0.10)	\$ 40
00.3000	754+78.0	4.50	65.21	55.76	60.00	\$ 0*(0.1000/0.10)	\$ 0
00.4000	749+50.0	4.74	52.78	45.86	49.00	\$110*(0.1000/0.10)	\$ 110
00.5000	744+22.0	4.78	48.59	44.46	47.00	\$130*(0.1000/0.10)	\$ 130
00.6000	738+94.0	4.73	55.66	45.69	51.00	\$ 90*(0.1000/0.10)	\$ 90
00.7000	733+66.0	4.63	56.67	54.47	56.00	\$ 40*(0.1000/0.10)	\$ 40
00.8000	728+38.0	4.58	62.33	52.56	57.00	\$ 30*(0.1000/0.10)	\$ 30
00.9000	723+10.0	4.76	49.67	46.16	48.00	\$120*(0.1000/0.10)	\$ 120
01.0000	717+82.0	4.71	52.19	51.95	52.00	\$ 80*(0.1000/0.10)	\$ 80

01.1000	712+54.0	4.58	57.09	57.14	57.00	\$ 30*(0.1000/0.10)	\$ 30
01.2000	707+26.0	4.53	54.70	63.39	59.00	\$ 10*(0.1000/0.10)	\$ 10
01.3000	701+98.0	4.80	43.29	46.53	45.00	\$150*(0.1000/0.10)	\$ 150
01.4000	696+70.0	4.73	48.10	53.13	51.00	\$ 90*(0.1000/0.10)	\$ 90
01.5000	691+42.0	4.65	59.25	50.41	55.00	\$ 50*(0.1000/0.10)	\$ 50
01.6000	686+14.0	4.62	56.99	54.30	56.00	\$ 40*(0.1000/0.10)	\$ 40
01.7000	680+86.0	4.69	52.64	53.51	53.00	\$ 70*(0.1000/0.10)	\$ 70
01.8000	675+58.0	4.66	55.15	53.46	54.00	\$ 60*(0.1000/0.10)	\$ 60
01.9000	670+30.0	4.70	55.38	49.88	53.00	\$ 70*(0.1000/0.10)	\$ 70
02.0000	665+02.0	4.70	54.30	51.24	53.00	\$ 70*(0.1000/0.10)	\$ 70
02.1000	659+74.0	4.73	50.39	51.06	51.00	\$ 90*(0.1000/0.10)	\$ 90
02.2000	654+46.0	4.76	43.82	52.66	48.00	\$120*(0.1000/0.10)	\$ 120
02.3000	649+18.0	4.71	55.43	49.23	52.00	\$ 80*(0.1000/0.10)	\$ 80
02.4000	643+90.0	4.67	52.81	55.40	54.00	\$ 60*(0.1000/0.10)	\$ 60
02.5000	638+62.0	4.65	54.81	54.48	55.00	\$ 50*(0.1000/0.10)	\$ 50
02.6000	633+34.0	4.76	46.52	48.90	48.00	\$120*(0.1000/0.10)	\$ 120
02.7000	628+06.0	4.64	54.27	56.13	55.00	\$ 50*(0.1000/0.10)	\$ 50
02.8000	622+78.0	4.63	54.43	56.17	55.00	\$ 50*(0.1000/0.10)	\$ 50
02.9000	617+50.0	4.60	59.88	53.57	57.00	\$ 30*(0.1000/0.10)	\$ 30
03.0000	612+22.0	4.10	87.58	67.85	78.00	\$ 0*(0.1000/0.10)	\$ 0
03.1000	606+94.0	3.42	118.61	109.21	114.00	\$ 0*(0.1000/0.10)	\$ 0
03.2000	601+66.0	3.93	88.56	82.84	86.00	\$ 0*(0.1000/0.10)	\$ 0
03.3000	596+38.0	4.28	75.21	63.48	69.00	\$ 0*(0.1000/0.10)	\$ 0
03.4000	591+10.0	4.04	87.99	72.55	80.00	\$ 0*(0.1000/0.10)	\$ 0
03.5000	585+82.0	4.34	67.93	66.14	67.00	\$ 0*(0.1000/0.10)	\$ 0
03.6000	580+54.0	4.52	62.27	57.36	60.00	\$ 0*(0.1000/0.10)	\$ 0
03.7000	575+26.0	4.34	71.59	62.23	67.00	\$ 0*(0.1000/0.10)	\$ 0
03.8000	569+98.0	3.94	69.57	101.43	86.00	\$ 0*(0.1000/0.10)	\$ 0
03.9000	564+70.0	4.55	54.47	62.07	58.00	\$ 20*(0.1000/0.10)	\$ 20
04.0000	559+42.0	4.64	59.10	50.65	55.00	\$ 50*(0.1000/0.10)	\$ 50
04.1000	554+14.0	4.48	63.72	58.66	61.00	\$ 0*(0.1000/0.10)	\$ 0
04.2000	548+86.0	4.30	81.51	56.00	69.00	\$ 0*(0.1000/0.10)	\$ 0
04.3000	543+58.0	4.35	69.56	63.38	66.00	\$ 0*(0.1000/0.10)	\$ 0
04.3950	538+56.4	3.75	93.18	97.30	95.00	\$ 0*(0.0950/0.10)	\$ 0

Pay Adjustment Subtotal \$ 2000

Ave Left IRI 62.1 Ave Right IRI 58.7 Ave IRI 60.4

Total IRI adjustments \$ 2000
Total Bump adjustments \$ 0
Total adjustments \$ 2000

US 79 QA

Eastbound Inside Lane

Ride Quality Analysis Rel 2008.11.11

TxDOT Smoothness Specification 585 Pay Schedule 3

Report run on Tuesday May 1 2012 11:57:35AM

Input profile data file created Tuesday May 1 2012 11:51:20AM

District 14	Highway US79
Area Office N. Austin	Beg RM 0000+00.000
County 246	Beg Station 0539+60.0
CSJ 0204-02-027	Lane roadbed R2
Phone 512-858-2993	Name PaveTex
Input file c:\program files\dynatest\rspwin\data\ramming-austin\2012\us 79 5-1-2012\us79ebr2.pro	
Comment	
Comment	

No Bump penalties assessed.
 Bonus paid for average IRIs of 30(\$300) to 60(\$0)
 No penalties assessed for high IRIs.
 Bonus NOT paid in sections with bump.

Profile Length(Miles) 4.3461 Length(Station Units) 0229+47.4ft.

Distance	Station	Type	Width(feet)	Elev(inches)
00.0272	0541+03.8	Dip	6.3	-.40
00.0285	0541+10.5	Dip	.3	-.15
00.9534	0589+94.0	Bump	.3	.15
00.9615	0590+36.8	Dip	.3	-.17
01.2618	0606+22.3	Dip	.3	-.17
01.4102	0614+06.0	Bump	.3	.15
01.4115	0614+12.5	Dip	.3	-.16
01.4633	0616+86.3	Dip	4.5	-.23
01.4646	0616+93.3	Dip	.3	-.16
01.4660	0617+00.3	Bump	4.8	.35
01.4676	0617+09.0	Dip	.8	-.18
01.6485	0626+64.0	Dip	.3	-.16
03.0566	0700+99.0	Bump	.3	.16
04.1331	0757+83.0	Bump	2.5	.17
04.3311	0768+28.3	Bump	4.0	.18
04.3435	0768+93.8	Bump	3.5	.25

Bumps/dips detected 16
 *Notes: Bumps closer than 5 feet are not shown or counted.
 Bump widths shown are not a true indication of the actual bump width but rather the portion of the bump exceeding 0.15 inches from the moving average of the profile.

Distance	Station	PSI	IRI(L)	IRI(R)	Avg IRI	Pay*SectLen	Pay
00.1000	544+88.0	4.23	69.79	73.31	72.00	\$ 0*(0.1000/0.10)	\$ 0
00.2000	550+16.0	4.71	47.59	56.05	52.00	\$ 80*(0.1000/0.10)	\$ 80
00.3000	555+44.0	4.62	46.64	64.56	56.00	\$ 40*(0.1000/0.10)	\$ 40
00.4000	560+72.0	4.57	49.68	65.58	58.00	\$ 20*(0.1000/0.10)	\$ 20
00.5000	566+00.0	4.41	46.33	81.47	64.00	\$ 0*(0.1000/0.10)	\$ 0
00.6000	571+28.0	4.50	56.70	64.16	60.00	\$ 0*(0.1000/0.10)	\$ 0
00.7000	576+56.0	4.51	57.05	62.93	60.00	\$ 0*(0.1000/0.10)	\$ 0
00.8000	581+84.0	4.38	55.56	75.16	65.00	\$ 0*(0.1000/0.10)	\$ 0
00.9000	587+12.0	4.56	49.98	66.24	58.00	\$ 20*(0.1000/0.10)	\$ 20

01.0000	592+40.0	4.25	60.83	81.22	71.00	\$ 0*(0.1000/0.10)	\$ 0
01.1000	597+68.0	4.49	50.47	71.16	61.00	\$ 0*(0.1000/0.10)	\$ 0
01.2000	602+96.0	4.70	47.91	58.03	53.00	\$ 70*(0.1000/0.10)	\$ 70
01.3000	608+24.0	4.39	51.34	78.41	65.00	\$ 0*(0.1000/0.10)	\$ 0
01.4000	613+52.0	4.35	67.57	65.53	67.00	\$ 0*(0.1000/0.10)	\$ 0
01.5000	618+80.0	3.58	99.83	109.29	105.00	\$ 0*(0.1000/0.10)	\$ 0
01.6000	624+08.0	4.48	60.88	61.34	61.00	\$ 0*(0.1000/0.10)	\$ 0
01.7000	629+36.0	4.36	60.32	72.17	66.00	\$ 0*(0.1000/0.10)	\$ 0
01.8000	634+64.0	4.71	47.66	55.56	52.00	\$ 80*(0.1000/0.10)	\$ 80
01.9000	639+92.0	4.56	52.96	63.38	58.00	\$ 20*(0.1000/0.10)	\$ 20
02.0000	645+20.0	4.66	49.31	59.02	54.00	\$ 60*(0.1000/0.10)	\$ 60
02.1000	650+48.0	4.63	51.31	59.41	55.00	\$ 50*(0.1000/0.10)	\$ 50
02.2000	655+76.0	4.51	62.01	57.94	60.00	\$ 0*(0.1000/0.10)	\$ 0
02.3000	661+04.0	4.50	64.90	56.05	60.00	\$ 0*(0.1000/0.10)	\$ 0
02.4000	666+32.0	4.66	53.54	55.17	54.00	\$ 60*(0.1000/0.10)	\$ 60
02.5000	671+60.0	4.75	42.99	53.93	48.00	\$120*(0.1000/0.10)	\$ 120
02.6000	676+88.0	4.85	39.48	42.84	41.00	\$190*(0.1000/0.10)	\$ 190
02.7000	682+16.0	4.71	50.93	53.47	52.00	\$ 80*(0.1000/0.10)	\$ 80
02.8000	687+44.0	4.73	49.86	50.83	50.00	\$100*(0.1000/0.10)	\$ 100
02.9000	692+72.0	4.52	62.00	56.97	59.00	\$ 10*(0.1000/0.10)	\$ 10
03.0000	698+00.0	3.98	86.50	80.04	83.00	\$ 0*(0.1000/0.10)	\$ 0
03.1000	703+28.0	4.50	60.56	60.19	60.00	\$ 0*(0.1000/0.10)	\$ 0
03.2000	708+56.0	4.68	54.66	52.59	54.00	\$ 60*(0.1000/0.10)	\$ 60
03.3000	713+84.0	4.76	49.40	46.56	48.00	\$120*(0.1000/0.10)	\$ 120
03.4000	719+12.0	4.54	59.00	58.73	59.00	\$ 10*(0.1000/0.10)	\$ 10
03.5000	724+40.0	4.42	64.78	62.64	64.00	\$ 0*(0.1000/0.10)	\$ 0
03.6000	729+68.0	4.51	57.81	62.36	60.00	\$ 0*(0.1000/0.10)	\$ 0
03.7000	734+96.0	4.58	54.50	59.82	57.00	\$ 30*(0.1000/0.10)	\$ 30
03.8000	740+24.0	4.74	52.28	46.52	49.00	\$110*(0.1000/0.10)	\$ 110
03.9000	745+52.0	4.69	50.89	55.78	53.00	\$ 70*(0.1000/0.10)	\$ 70
04.0000	750+80.0	4.51	57.12	63.03	60.00	\$ 0*(0.1000/0.10)	\$ 0
04.1000	756+08.0	4.67	51.90	55.64	54.00	\$ 60*(0.1000/0.10)	\$ 60
04.2000	761+36.0	3.81	104.25	80.24	92.00	\$ 0*(0.1000/0.10)	\$ 0
04.3000	766+64.0	4.37	77.03	54.69	66.00	\$ 0*(0.1000/0.10)	\$ 0
04.3461	769+07.4	4.12	90.41	63.36	77.00	\$ 0*(0.0461/0.10)	\$ 0

Pay Adjustment Subtotal \$ 1460

Ave Left IRI 58.2 Ave Right IRI 63 Ave IRI 60.6

Total IRI adjustments \$ 1460

Total Bump adjustments \$ 0

Total adjustments \$ 1460

US 79 QA

Eastbound Outside Lane

Ride Quality Analysis Rel 2008.11.11

TxDOT Smoothness Specification 585 Pay Schedule 3

Report run on Tuesday May 1 2012 11:58:11AM

Input profile data file created Tuesday May 1 2012 11:51:11AM

District 14	Highway US79
Area Office N. Austin	Beg RM 0000+00.000
County 246	Beg Station 0539+60.0
CSJ 0204-02-027	Lane roadbed R3
Phone 512-858-2993	Name PaveTex
Input file c:\program files\dynatest\rspwin\data\ramming-austin\2012\us 79 5-1-2012\us79ebr3.pro	
Comment	
Comment	

No Bump penalties assessed.
 Bonus paid for average IRIs of 30(\$300) to 60(\$0)
 No penalties assessed for high IRIs.
 Bonus NOT paid in sections with bump.

Profile Length(Miles) 4.3474 Length(Station Units) 0229+54.3ft.

Distance	Station	Type	Width(feet)	Elev(inches)
00.0366	0541+53.5	Dip	.3	-.15
00.0636	0542+96.0	Bump	1.5	.18
00.6375	0573+26.0	Dip	.3	-.16
01.8979	0639+81.0	Dip	.3	-.15
01.8992	0639+87.8	Bump	1.5	.19
01.9002	0639+93.3	Bump	.3	.16
03.7880	0739+60.5	Bump	.3	.16

Bumps/dips detected 7

*Notes: Bumps closer than 5 feet are not shown or counted.
 Bump widths shown are not a true indication of the actual bump width but rather the portion of the bump exceeding 0.15 inches from the moving average of the profile.

Distance	Station	PSI	IRI(L)	IRI(R)	Avg IRI	Pay*SectLen	Pay
00.1000	544+88.0	3.78	84.13	103.36	94.00	\$ 0*(0.1000/0.10)	\$ 0
00.2000	550+16.0	4.45	58.87	65.72	62.00	\$ 0*(0.1000/0.10)	\$ 0
00.3000	555+44.0	4.53	55.36	63.01	59.00	\$ 10*(0.1000/0.10)	\$ 10
00.4000	560+72.0	4.58	47.38	67.13	57.00	\$ 30*(0.1000/0.10)	\$ 30
00.5000	566+00.0	4.55	50.44	66.41	58.00	\$ 20*(0.1000/0.10)	\$ 20
00.6000	571+28.0	4.36	61.68	70.90	66.00	\$ 0*(0.1000/0.10)	\$ 0
00.7000	576+56.0	3.73	83.16	109.33	96.00	\$ 0*(0.1000/0.10)	\$ 0
00.8000	581+84.0	4.34	66.80	67.35	67.00	\$ 0*(0.1000/0.10)	\$ 0
00.9000	587+12.0	4.59	59.97	53.89	57.00	\$ 30*(0.1000/0.10)	\$ 30
01.0000	592+40.0	4.51	63.34	57.06	60.00	\$ 0*(0.1000/0.10)	\$ 0
01.1000	597+68.0	4.51	56.85	63.04	60.00	\$ 0*(0.1000/0.10)	\$ 0
01.2000	602+96.0	4.03	88.43	73.86	81.00	\$ 0*(0.1000/0.10)	\$ 0
01.3000	608+24.0	4.28	71.70	67.68	70.00	\$ 0*(0.1000/0.10)	\$ 0
01.4000	613+52.0	4.34	67.90	65.78	67.00	\$ 0*(0.1000/0.10)	\$ 0
01.5000	618+80.0	4.06	73.26	85.56	79.00	\$ 0*(0.1000/0.10)	\$ 0
01.6000	624+08.0	4.27	69.67	70.74	70.00	\$ 0*(0.1000/0.10)	\$ 0
01.7000	629+36.0	4.47	62.35	60.91	62.00	\$ 0*(0.1000/0.10)	\$ 0
01.8000	634+64.0	4.42	66.58	60.69	64.00	\$ 0*(0.1000/0.10)	\$ 0

01.9000	639+92.0	4.22	66.77	77.39	72.00	\$ 0*(0.1000/0.10)	\$ 0
02.0000	645+20.0	4.10	70.48	84.92	78.00	\$ 0*(0.1000/0.10)	\$ 0
02.1000	650+48.0	4.35	66.04	67.29	67.00	\$ 0*(0.1000/0.10)	\$ 0
02.2000	655+76.0	4.53	52.38	66.23	59.00	\$ 10*(0.1000/0.10)	\$ 10
02.3000	661+04.0	4.51	49.11	71.17	60.00	\$ 0*(0.1000/0.10)	\$ 0
02.4000	666+32.0	4.69	40.01	66.04	53.00	\$ 70*(0.1000/0.10)	\$ 70
02.5000	671+60.0	4.49	48.15	73.37	61.00	\$ 0*(0.1000/0.10)	\$ 0
02.6000	676+88.0	4.63	53.31	57.31	55.00	\$ 50*(0.1000/0.10)	\$ 50
02.7000	682+16.0	4.69	49.28	56.93	53.00	\$ 70*(0.1000/0.10)	\$ 70
02.8000	687+44.0	4.80	41.05	48.73	45.00	\$150*(0.1000/0.10)	\$ 150
02.9000	692+72.0	4.69	51.41	55.20	53.00	\$ 70*(0.1000/0.10)	\$ 70
03.0000	698+00.0	4.72	48.09	54.00	51.00	\$ 90*(0.1000/0.10)	\$ 90
03.1000	703+28.0	4.70	51.71	54.23	53.00	\$ 70*(0.1000/0.10)	\$ 70
03.2000	708+56.0	4.70	54.64	51.11	53.00	\$ 70*(0.1000/0.10)	\$ 70
03.3000	713+84.0	4.64	54.94	55.45	55.00	\$ 50*(0.1000/0.10)	\$ 50
03.4000	719+12.0	4.37	61.74	69.47	66.00	\$ 0*(0.1000/0.10)	\$ 0
03.5000	724+40.0	4.58	57.91	56.76	57.00	\$ 30*(0.1000/0.10)	\$ 30
03.6000	729+68.0	4.72	48.47	54.57	52.00	\$ 80*(0.1000/0.10)	\$ 80
03.7000	734+96.0	4.74	45.62	53.10	49.00	\$110*(0.1000/0.10)	\$ 110
*** IRI bonus of \$80 withheld this section due to bumps.							
03.8000	740+24.0	4.71	48.34	54.91	52.00	\$ 0*(0.1000/0.10)	\$ 0
03.9000	745+52.0	4.54	55.89	61.52	59.00	\$ 10*(0.1000/0.10)	\$ 10
04.0000	750+80.0	4.49	61.57	60.35	61.00	\$ 0*(0.1000/0.10)	\$ 0
04.1000	756+08.0	4.52	61.92	57.70	60.00	\$ 0*(0.1000/0.10)	\$ 0
04.2000	761+36.0	4.46	61.99	61.67	62.00	\$ 0*(0.1000/0.10)	\$ 0
04.3000	766+64.0	4.49	64.36	57.32	61.00	\$ 0*(0.1000/0.10)	\$ 0
04.3474	769+14.3	4.14	82.51	69.39	76.00	\$ 0*(0.0474/0.10)	\$ 0

Pay Adjustment Subtotal \$ 1020

Ave Left IRI 59.6 Ave Right IRI 65.1 Ave IRI 62.35

Total IRI adjustments \$ 1020
Total Bump adjustments \$ 0
Total adjustments \$ 1020