

**California
Department of Transportation**

**Price Index for Selected Highway Construction Items
Third Quarter Ending September 30, 2016**

SUMMARY

Index this quarter	145.73
Point change from last quarter	14.98
Percentage change from last quarter	11.45%
Index last 12 months	138.13
Point change from previous report	9.42
Percentage change from previous report	7.3%

Average number of bidders this quarter	5.2
Change in number of bidders from last quarter	0.1

Notes: Price indices are computed using the Fisher formula and base year 2007.

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California Department of Transportation

Price Index for Selected Highway Construction Items
3rd Quarter Ending September 30, 2016

Prepared by Division of Engineering Services - Office Engineer

NOTE: All information shown in the publication was assembled using the 2007 base year.

The California Price Index for Selected Highway Construction Items for the Third quarter of 2016 stands at 145.73, up 14.98 points (11.45 percent) from the Second quarter of 2016 index of 130.75. The Index for the year-to-date (September 1, 2015 through September 30, 2016) is 138.13, up 9.42 points (7.3 percent) from the Second quarter of 2016 year-to-date index of 128.71.

Cost increases were recorded in Roadway Excavation, Aggregate Base, Asphalt Concrete Pavement, Portland Cement Concrete (Pavement), Portland Cement Concrete (Structure) and Structural Steel in the Third quarter.

The average number of bidders per project in the Third quarter of 2016 is 5.2, more amount of bidder per project as compared to 5.1 in the Second quarter of 2016 and up 0.3 as compared to 4.8 in the corresponding quarter of 2015.

Projects Bid Opened

(July 1, 2016 through September 30, 2016)

Range(by \$)			Number of Projects	%	Amounts of Projects (\$)	%
Up to 50,000			0	0.00%	0	0.000%
50,000	to	100,000	0	0.00%	0	0.00%
100,000	to	250,000	1	1.28%	206,970	0.07%
250,000	to	500,000	5	6.41%	1,550,397	0.51%
500,000	to	1,000,000	9	11.54%	7,389,990	2.41%
1,000,000	to	2,500,000	35	44.87%	56,677,852	18.51%
2,500,000	to	5,000,000	13	16.67%	44,209,265	14.44%
5,000,000 and above			15	19.23%	196,175,132	64.07%
Total			78	100%	306,209,606	100%

Construction Item Costs Based on English Units

Roadway Excavation: \$23.4 per cubic yard

The price increased \$4.10 from the average price of \$19.3 per cubic yard last quarter. The bid prices ranged from \$9.00 to \$1100.00 per cubic yard.

Aggregate Base: \$26.1 per ton

The price increased \$3.70 from the average price of \$22.40 per ton last quarter. The bid prices ranged from \$22 to \$1640 per ton.

Asphalt Concrete Pavement: \$122.6 per ton

The price increased \$3.6 from the average price of \$119 per ton last quarter. The bid prices ranged from \$74 to \$6500.00 per ton.

Portland Cement Concrete (Pavement): \$228 per cubic yard

The price increased \$26.0 from the average price of \$202 per cubic yard last quarter. The bid prices ranged from \$162.00 to \$2100.00 per cubic yard.

Portland Cement Concrete (Structure): \$761 per cubic yard

The price increased \$113.0 from the average price of \$648 per cubic yard last quarter. The bid prices ranged from \$450.00 to \$2150.00 per cubic yard.

Bar Reinforcing Steel: \$1.65 per pound

The price decreased \$0.09 from the average price of \$1.74 per pound last quarter. The bid prices ranged from \$0.70 to 22.00 per pound.

Structural Steel: \$20.70 per pound

The price increased \$1.37 from the average price of \$19.33 per pound last quarter. The bid prices ranged from \$18.00 to \$108 per pound.

Construction Item Costs Based on Metric Units

Roadway Excavation: \$30.61 per cubic meter

The price increased \$5.37 from the average price of \$25.24 per cubic meter last quarter. The bid prices ranged from \$11.77 to \$1438.75 per cubic meter.

Aggregate Base: \$28.77 per tonn

The price increased \$4.08 from the average price of \$24.69 per tonn last quarter. The bid prices ranged from \$24.25 to \$1807.8 per tonn.

Asphalt Concrete Pavement: \$135.14 per tonn

The price increased \$4.04 from the average price of \$131.18 per tonn last quarter. The bid prices ranged from \$81.57 to \$7165.03 per tonn.

Portland Cement Concrete (Pavement): \$298.21 per cubic meter

The price increased \$34 from the average price of \$264.21 per cubic meter last quarter. The bid prices ranged from \$211.89 to \$2746.7 per cubic meter.

Portland Cement Concrete (Structure): \$995.35 per cubic meter

The price increased \$147.8 from the average price of \$847.55 per cubic meter last quarter. The bid prices ranged from \$588.58 to \$2812.09 per cubic meter.

Bar Reinforcing Steel: \$3.638 per kilogram

The price decreased \$0.198 from the average price of \$3.836 per kilogram last quarter. The bid prices ranged from \$1.543 to \$48.502 per kilogram.

Structural Steel: \$45.636 per kilogram

The price increased \$3.021 from the average price of \$42.615 per kilogram last quarter. The bid prices ranged from \$39.683 to \$238.1 per kilogram.

EXHIBIT A

**Price Index for Selected
Highway Construction Items
2007 = 100, Fisher formula**

<u>YEAR</u>	<u>QTRLY</u>	<u>LAST 12 Months</u>	<u>Annual</u>
1972			11.3
1973			11.4
1974			17.2
1975			17.2
1976			16.5
1977			19.8
1978			22.6
1979			29.3
1980			30.1
1981			34.4
1982			30.9
1983			31.0
1984			36.2
1985			36.0
1986			37.3
1987			39.7
1988			40.5
1989			43.9
1990			44.1
1991			40.4
1992			40.4
1993			42.2
1994			46.2
1995			45.0
1996			45.6
1997			47.6
1998			49.9
1999			52.9
2000			53.5
2001			58.7
2002			53.1
2003			56.6
2004			79.1
2005			98.1
2006			104.1
2007			100.0
2008			95.0
2009	(1st Quarter)	98.1	95.5
2009	(2nd Quarter)	74.5	92.0
2009	(3rd Quarter)	88.4	80.4
2009	(4th Quarter)	74.3	
	(Year)		78.4
2010	(1st Quarter)	101.5	78.5
2010	(2nd Quarter)	79.3	79.1
2010	(3rd Quarter)	72.1	76.2
2010	(4th Quarter)	76.7	
	(Year)		76.8
2011	(1st Quarter)	86.4	76.2
2011	(2nd Quarter)	85.2	78.9
2011	(3rd Quarter)	85.8	81.7
2011	(4th Quarter)	81.4	
	(Year)		84.0
2012	(1st Quarter)	81.1	82.9
2012	(2nd Quarter)	84.6	81.3
2012	(3rd Quarter)	76.4	79.3

2012	(4th Quarter)	.....	82.8		
	(Year)	.....			79.2
2013	(1st Quarter)	.....	117.9	80.7	
2013	(2nd Quarter)	.....	134.9	82.5	
2013	(3rd Quarter)	.....	81.6	85.7	
2013	(4th Quarter)	.....	106.2		
	(Year)	.....			97.09
2014	(1st Quarter)	.....	135.3	96.88	
2014	(2nd Quarter)	.....	109.11	104.56	
2014	(3rd Quarter)	.....	110.39	107.37	
2014	(4th Quarter)	.....	120.17	108.32	
2015	(1st Quarter)	.....	138.22	107.88	
2015	(2nd Quarter)	.....	110.93	109.91	
2015	(3rd Quarter)	.....	117.91	119.69	
2015	(4th Quarter)	.....	128.21	122.02	
2016	(1st Quarter)	.....	127.93	124.29	
2016	(2nd Quarter)	.....	130.75	128.71	
2016	(3rd Quarter)	.....	145.73	138.13	

EXHIBIT B

California Department of Transportation
Average Highway Contract Prices
(English Units)

	Roadway Excavation "1" <u>Per Cu Yd</u>	Aggregate Base <u>Per Ton</u>	Asphalt Concrete Pavement <u>Per Ton</u>	PCC Pavement <u>Per Cu Yd</u>	Class "A" PCC Structure <u>Per Cu Yd</u>	Bar Reinforcing Steel <u>Per Lb</u>	Structural Steel "2" <u>Per Lb</u>
1972	0.95	3.21	8.22	19.23	82.08	0.159	0.446
1973	0.75	3.14	9.02	19.24	93.60	0.169	0.635
1974	1.26	4.23	13.01	28.59	115.19	0.329	0.987
1975	1.19	4.70	14.24	30.63	132.10	0.239	0.838
1976	1.32	4.70	13.67	29.64	143.05	0.223	0.504
1977	1.76	5.44	15.15	35.17	150.03	0.239	1.228
1978	1.85	6.18	17.70	41.77	180.77	0.276	0.814
1979	2.36	7.49	22.40	52.39	234.24	0.383	1.960
1980	2.10	8.38	25.51	55.18	235.45	0.378	1.942
1981	3.14	8.63	28.53	59.45	226.84	0.386	2.091
1982	2.58	7.56	24.69	57.10	224.72	0.320	2.155
1983	2.10	9.20	27.57	52.04	225.84	0.335	2.155
1984	3.19	13.67	28.38	55.79	238.48	0.375	2.155
1985	2.77	11.55	30.15	64.13	232.39	0.413	2.288
1986	3.01	12.76	28.82	60.49	249.74	0.412	2.388
1987	2.97	17.57	27.54	70.62	280.40	0.418	2.546
1988	4.16	10.13	27.46	58.66	284.55	0.440	3.956
1989	4.19	10.62	29.43	73.78	303.49	0.483	3.103
1990	4.73	12.05	30.77	68.93	295.24	0.469	2.209
1991	3.08	10.07	33.43	62.64	295.21	0.431	2.284
1992	3.62	9.76	32.46	66.78	265.31	0.419	3.073
1993	4.53	9.89	35.41	66.76	243.79	0.464	2.706
1994	4.68	10.39	37.15	66.45	277.92	0.547	2.334
1995	4.10	10.18	35.29	63.85	298.80	0.499	2.266
1996	3.80	9.74	37.66	65.93	321.88	0.512	2.172
1997	5.25	10.29	36.07	78.48	308.54	0.496	2.337
1998	4.95	11.55	38.78	75.91	319.95	0.553	2.595
1999	6.55	12.86	40.14	77.95	321.22	0.521	3.215
2000	6.21	11.14	45.12	78.14	363.59	0.507	2.754
2001	5.83	14.58	43.89	75.74	425.17	0.612	3.906
2002	4.84	12.42	49.00	74.15	363.50	0.508	3.248
2003	5.05	15.05	48.35	109.96	362.75	0.600	1.710
2004	13.11	16.97	53.55	135.94	399.64	0.947	5.390
2005	14.13	20.61	75.72	171.22	567.31	0.968	2.666
2006	12.80	20.26	86.04	179.67	630.16	1.039	3.734
2007	10.84	20.54	85.48	204.69	566.25	0.935	6.966
2008	11.39	17.90	78.50	177.91	553.62	0.938	5.183
2009	9.37	14.91	80.38	125.41	484.78	0.593	4.492
1st Quarter 2010	26.70	21.79	85.51	116.22	609.73	0.775	3.999
2nd Quarter 2010	11.79	14.49	86.30	148.42	419.24	0.673	1.958
3rd Quarter 2010	5.49	16.61	75.00	131.73	434.65	0.669	8.227
4th Quarter 2010	7.67	12.81	76.54	112.71	547.98	0.788	1.826
Year 2010	7.94	14.20	80.25	122.82	483.64	0.716	2.149
1st Quarter 2011	11.37	11.79	84.60	150.76	431.25	0.870	7.212
2nd Quarter 2011	9.71	16.50	93.35	120.87	487.87	0.791	2.328
3rd Quarter 2011	11.56	15.34	97.53	143.76	421.50	0.891	7.255
4th Quarter 2011	13.51	14.49	81.33	147.29	335.31	0.900	2.023
Year 2011	11.82	14.12	87.11	135.40	427.76	0.830	2.102
1st Quarter 2012	8.34	16.43	99.70	117.18	506.31	0.878	2.858
2nd Quarter 2012	5.87	13.03	97.06	143.19	465.09	1.008	20.000
3rd Quarter 2012	7.39	13.77	72.92	138.70	454.53	0.907	1.895
4th Quarter 2012	12.73	17.77	94.41	153.24	458.51	0.952	2.586
Year 2012	8.24	14.66	89.36	132.52	461.23	0.927	2.497
1st Quarter 2013	13.98	34.74	102.58	135.96	731.69	1.292	11.018
2nd Quarter 2013	20.54	24.91	97.14	470.00	704.67	1.456	5.263
3rd Quarter 2013	5.47	16.32	100.47	172.27	502.10	0.912	17.647
4th Quarter 2013	16.80	25.14	110.07	159.50	462.23	0.943	8.00

Year 2013	8.98	18.60	100.11	157.26	538.01	1.01	5.57
1st Quarter 2014	22.47	27.26	103.56	242.47	771.12	1.084	3.21
2nd Quarter 2014	15.797	21.58	89.358	188.39	538.387	1.049	7.998
3rd Quarter 2014	14.51	18.14	81.85	227.8	750.82	1.16	13.88
4th Quarter 2014	17.20	25.44	113.10	166.23	582.22	1.18	15.44
Year 2014	17.49	23.10	96.97	206.22	660.64	1.12	10.132
1st Quarter 2015	17.40	25.55	116.21	166.41	588.18	1.21	16.46
2nd Quarter 2015	14.20	21.60	106.85	170.56	579.43	1.16	14.77
3rd Quarter 2015	14.28	19.72	84.20	219.78	754.11	1.16	14.63
4th Quarter 2015	17.60	24.55	113.10	219.82	689.72	1.27	16.32
Year 2015	15.87	22.85	105.09	194.14	652.86	1.20	15.54
1st Quarter 2016	18.10	23.30	121	194	644	1.41	17.82
2nd Quarter 2016	19.30	22.40	119	202	648	1.74	19.33
3rd Quarter 2016	23.40	26.10	122.6	228	761	1.65	20.70

1. Unclassified.
2. Beginning 1st quarter 2003, structural steel includes the furnish and the erect structural steel (bridge).

EXHIBIT B

California Department Of Transportation
Average Highway Contract Prices
(Metric Units)

	Roadway Excavation "1" <u>Per M3</u>	Aggregate Base <u>Per Tonn</u>	Asphalt Concrete Pavement <u>Per Tonn</u>	PCC Pavement <u>Per M3</u>	Class "A" PCC Structure <u>Per M3</u>	Bar Reinforcing Steel <u>Per Kg</u>	Structural Steel "2" <u>Per Kg</u>
1972	1.24	3.54	9.06	25.15	107.36	0.351	0.983
1973	0.98	3.46	9.94	25.16	122.42	0.373	1.400
1974	1.65	4.66	14.34	37.39	150.66	0.725	2.176
1975	1.56	5.18	15.70	40.06	172.78	0.527	1.847
1976	1.73	5.18	15.07	38.77	187.10	0.492	1.111
1977	2.30	6.00	16.70	46.00	196.23	0.527	2.707
1978	2.42	6.81	19.51	54.63	236.44	0.608	1.795
1979	3.09	8.26	24.69	68.52	306.37	0.844	4.321
1980	2.75	9.24	28.12	72.17	307.96	0.833	4.281
1981	4.11	9.51	31.45	77.76	296.70	0.851	4.610
1982	3.37	8.33	27.22	74.68	293.92	0.705	4.751
1983	2.75	10.14	30.39	68.07	295.39	0.739	4.751
1984	4.17	15.07	31.28	72.97	311.92	0.827	4.751
1985	3.62	12.73	33.23	83.88	303.95	0.911	5.044
1986	3.94	14.07	31.77	79.12	326.65	0.908	5.265
1987	3.88	19.37	30.36	92.37	366.75	0.922	5.613
1988	5.44	11.17	30.27	76.72	372.18	0.970	8.721
1989	5.48	11.71	32.44	96.50	396.95	1.065	6.841
1990	6.19	13.28	33.92	90.16	386.16	1.034	4.870
1991	4.03	11.10	36.85	81.93	386.12	0.950	5.035
1992	4.73	10.76	35.78	87.34	347.01	0.924	6.775
1993	5.93	10.90	39.03	87.32	318.87	1.023	5.966
1994	6.12	11.45	40.95	86.91	363.51	1.206	5.146
1995	5.36	11.22	38.90	83.51	390.82	1.100	4.996
1996	5.09	10.74	41.51	86.23	421.00	1.129	4.788
1997	6.87	11.35	39.76	102.65	403.56	1.094	5.152
1998	6.47	12.73	42.75	99.29	418.48	1.219	5.721
1999	8.57	14.17	44.24	101.95	420.15	1.148	7.088
2000	8.12	12.28	49.73	102.21	475.55	1.118	6.071
2001	7.63	16.07	48.39	99.06	556.10	1.349	8.612
2002	6.32	13.70	54.01	96.99	475.44	1.120	7.160
2003	6.60	16.59	53.30	143.82	474.45	1.313	3.769
2004	17.15	18.70	59.03	177.81	522.71	2.087	11.883
2005	18.48	22.72	83.47	223.94	742.02	2.134	5.878
2006	16.75	22.34	94.84	235.00	824.21	2.291	8.231
2007	14.18	22.64	94.23	267.73	740.62	2.062	15.358
2008	14.90	19.73	86.53	232.69	724.11	2.068	11.426
2009	12.25	16.44	88.61	164.03	634.07	1.308	9.902
1st Quarter 2010	34.92	24.02	94.26	152.01	797.50	1.708	8.816
2nd Quarter 2010	15.42	15.97	95.13	194.12	548.35	1.484	4.317
3rd Quarter 2010	7.18	18.31	82.68	172.30	568.50	1.476	18.138
4th Quarter 2010	10.03	14.12	84.37	147.42	716.74	1.738	4.027
Year 2010	10.38	15.65	88.47	160.64	632.57	1.579	4.738
1st Quarter 2011	14.87	12.99	93.26	197.19	564.05	1.918	15.901
2nd Quarter 2011	12.70	18.19	102.90	158.09	638.12	1.745	5.133
3rd Quarter 2011	15.12	16.91	107.51	188.03	551.31	1.964	15.994
4th Quarter 2011	17.68	15.97	89.65	192.65	438.56	1.985	4.460
Year 2011	15.46	15.57	96.02	177.09	559.48	1.829	4.634
1st Quarter 2012	10.91	18.11	109.90	153.26	662.23	1.936	6.301
2nd Quarter 2012	7.68	14.36	106.99	187.29	608.32	2.222	44.092
3rd Quarter 2012	9.67	15.18	80.38	181.41	594.50	2.000	4.177
4th Quarter 2012	16.65	19.59	104.07	200.42	599.70	2.099	5.701
Year 2012	10.78	16.16	98.50	173.33	603.27	2.044	5.505
1st Quarter 2013	18.28	38.29	113.08	177.83	957.02	2.848	24.291
2nd Quarter 2013	26.87	27.46	107.08	614.74	921.68	3.209	11.603
3rd Quarter 2013	7.15	17.99	110.75	225.32	656.73	2.010	38.904

4th Quarter 2013	21.98	27.71	121.33	208.61	604.58	2.078	17.637
Year 2013	11.74	20.51	110.36	205.68	703.69	2.23	12.27
1st Quarter 2014	29.39	30.045	114.15	317.142	1008.58	2.39	7.08
2nd Quarter 2014	20.662	21.58	98.5	246.405	704.184	2.312	17.632
3rd Quarter 2014	18.98	19.99	90.22	297.95	982.03	2.56	30.59
4th Quarter 2014	22.53	27.98	124.41	217.76	762.70	2.59	33.96
Year 2014	22.89	24.90	106.82	217.76	864.37	2.46	22.31
1st Quarter 2015	22.79	28.10	127.83	218.00	770.51	2.66	36.20
2nd Quarter 2015	18.57	23.18	117.78	223.08	757.87	2.56	32.56
3rd Quarter 2015	18.68	21.74	92.81	287.46	986.34	2.67	32.25
4th Quarter 2015	23.02	27.06	122.69	287.51	902.12	2.80	35.98
Year 2015	20.76	25.02	115.28	254.02	854.21	2.67	34.25
1st Quarter 2016	23.67	25.68	133.38	253.74	842.32	3.11	39.28
2nd Quarter 2016	25.24	24.69	131.18	264.21	847.55	3.836	42.615
3rd Quarter 2016	30.61	28.77	135.14	298.21	995.35	3.638	45.636

1. Unclassified.
2. Beginning 1st quarter 2003, structural steel includes the furnish and the erect structural steel (bridge).