

# STATE OF COLORADO

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**DEPARTMENT OF TRANSPORTATION**

4201 East Arkansas Avenue  
Denver, Colorado 80222  
(303) 757-9293

April 17, 2000

**COLORADO CONSTRUCTION COST INDEX REPORT**  
Calendar year 2000  
First Quarter

Prepared by  
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Prepared for  
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## DEPARTMENT OF TRANSPORTATION

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### SUMMARY

#### CONSTRUCTION COST INDEX FOR SELECTED HIGHWAY CONSTRUCTION ITEMS

1<sup>ST</sup> QUARTER ENDING MARCH 31, 2000

Index for this quarter.....	164.5
Index for last quarter.....	154.3
Point change from last quarter.....	+ 10.2
Percentage change from last quarter.....	+ 6.6%
Index for same quarter of last year.....	163.5
Point change from same quarter last year.....	+ 1.0
Percentage change from this quarter.....	+ 0.6%

Average number of bidders this quarter.....	4.9
Change in number of bidders from last quarter.....	+ 1.5%

NOTE: All information shown in this publication was assembled using 1987 as base year.

## CCI REPORT FROM 01/01/2000 TO 03/31/200

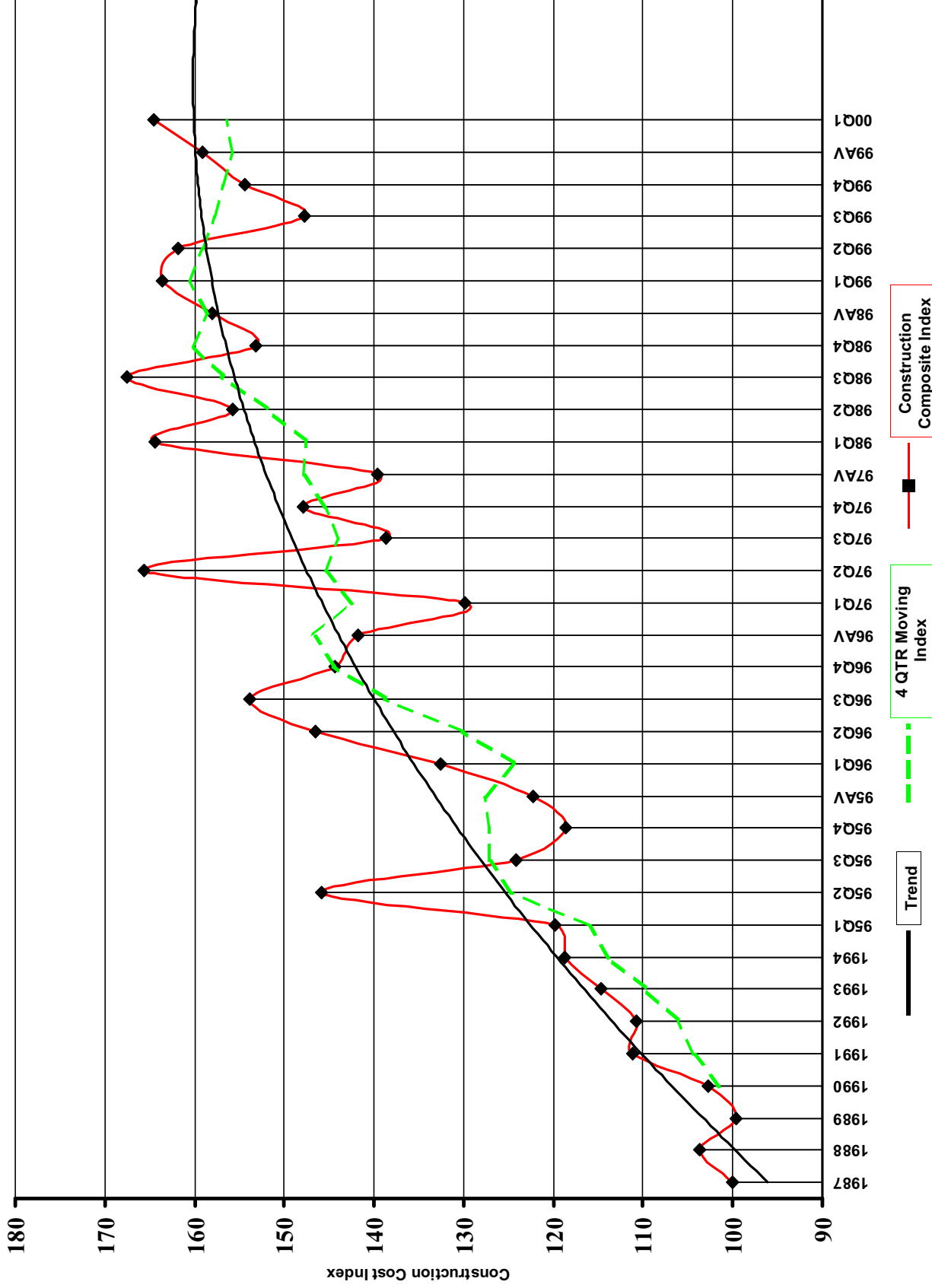
ITEM CODE	# OF ITEM	QUANTITY	PRICE	UNIT PRICE	INDEX
203-00000 To 203-00060 203-00062 To 203-00210 203-00400 To 203-00500 203-01020 To 203-01030 209-00000 To 209-00050	18	English (CY) 471725.00	\$2,468,338.81	\$5.23	
	11	Metric (M^3) 487895.00	\$3,206,476.40	\$6.57	
<b>UNCLASSIFIED EXCAV (CIP)</b>	<b>29</b>	<b>1109891.66<sup>CY</sup></b>	<b>\$5.674.815.21</b>	<b>\$5.11</b>	<b>206.9</b>
403-01000 403-01010 403-31300 To 403 35452 403-91401 To 403-95353 411-03200 To 411-03354 <b>Only \$ added for 411 Item</b>	31	English (TON) 632492.00	\$22,294,308.15	\$35.25	
	12	Metric (MT) 146736.40	\$6,968,662.40	\$47.49	
<b>HOT BIT. PAVEMENT (H -A)</b>	<b>43</b>	<b>794268.88<sup>T</sup></b>	<b>\$29.262.970.55</b>	<b>\$36.84</b>	<b>159.0</b>
412-00000 To 412-00050 412-00700 To 412-01352 412-03000 To 412-03000	3	English (SY) 110966.22	\$2,949,113.28	\$26.58	
	6	Metric (M^2) 322825.87	\$7,853,451.76	\$24.33	
<b>CONCRETE PAVEMENT (9")</b>	<b>9</b>	<b>497062.75<sup>SY</sup></b>	<b>\$10.802.565.04</b>	<b>\$21.73</b>	<b>162.7</b>
<b>SURFACING TOTAL INDEX</b>					<b>159.4</b>
509-00000 To 509-00000	0	English (LB) 0.00	\$0.00	\$0.00	
	0	Metric (KG) 0.00	\$0.00	\$0.00	
<b>STRUCTURAL STEEL</b>	<b>0</b>	<b>0.00<sup>LB</sup></b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>0.0</b>
601-01022 To 601-01022 601-01030 To 601-01060 601-03030 To 601-05064	19	English (CY) 7867.40	\$2,552,895.85	\$324.49	
	10	Metric (M^3) 4397.20	\$2,094,220.00	\$476.26	
<b>STRUCTURAL CONCRETE</b>	<b>29</b>	<b>13618.94<sup>CY</sup></b>	<b>\$4.647.115.85</b>	<b>\$341.22</b>	<b>157.0</b>
602-00000 To 602-00000 602-00020 To 602-00020	15	English (LB) 1600929.00	\$767,373.58	\$0.48	
	5	Metric (KG) 565706.60	\$520,007.21	\$0.92	
<b>REINFORCING STEEL</b>	<b>20</b>	<b>2848312.05<sup>LB</sup></b>	<b>\$1.287.380.79</b>	<b>\$0.45</b>	<b>110.2</b>

**STRUCTURAL TOTAL INDEX      145.7**

**COMPOSITE INDEX      164.5**

**Total cost on 6 categories above = \$51.674.847.44**

Colorado Highway Construction Cost Index Graph and Tabulations (1987 Base Year)



## Colorado Highway Construction Cost Index Graph and Tabulations (1987 Base Year)

YEAR	QTR.	Earthwork		Asph. Pavement		Concrete Pavement		Surfacing		Structural Concrete		Reinforcing Steel		Structural Steel		Structural Index	Composite Index
		Rid Price	Index	Rid Price	Index	Rid Price	Index	Rid Price	Index	Rid Price	Index	Rid Price	Index	Rid Price	Index		
1987	1987	\$2.47	100.0	\$23.17	100.0	\$13.36	100.0	100.0	100.0	\$217.32	100.0	\$0.41	100.0	\$0.85	100.0	100.0	100.0
1988	1988	\$2.92	118.1	\$23.88	103.0	\$13.84	103.6	103.1	103.1	\$195.02	89.7	\$0.45	110.7	\$0.89	104.1	96.7	103.7
1989	1989	\$2.57	103.9	\$23.67	102.2	\$11.65	87.2	100.6	100.6	\$199.41	91.8	\$0.40	97.8	\$0.88	103.5	95.3	99.6
1990	1990	\$2.78	112.5	\$23.98	103.5	\$15.09	113.0	104.5	104.5	\$190.86	87.8	\$0.37	90.8	\$0.99	116.0	94.1	102.7
1991	1991	\$3.31	133.8	\$26.25	113.3	\$16.03	120.0	114.0	114.0	\$195.43	89.9	\$0.38	93.1	\$0.89	104.4	93.5	111.2
1992	1992	\$2.77	112.3	\$26.20	113.1	\$23.82	178.3	119.8	119.8	\$216.87	99.8	\$0.36	87.9	\$0.71	82.8	94.0	110.7
1993	1993	\$3.25	131.4	\$27.74	119.7	\$16.75	125.4	121.3	121.3	\$212.43	97.7	\$0.37	90.1	\$0.79	93.0	95.3	114.7
1994	1994	\$3.56	144.2	\$28.40	122.6	\$18.78	140.6	124.4	124.4	\$219.94	101.2	\$0.37	89.7	\$0.67	78.8	94.4	118.8
1995	95Q1	\$2.85	115.5	\$30.98	133.7	\$20.33	152.2	135.6	135.6	\$217.43	100.1	\$0.39	94.6	\$0.67	78.8	94.7	119.8
1995	95Q2	\$6.18	250.1	\$30.43	131.3	\$27.06	202.5	138.7	138.7	\$227.59	104.7	\$0.40	97.0	\$0.73	85.6	99.3	145.8
1995	95Q3	\$3.33	134.7	\$30.51	131.7	\$16.02	119.9	130.5	130.5	\$229.50	105.6	\$0.38	93.8	(\$1.00)	-1.0	102.7	124.1
1995	95Q4	\$3.33	134.9	\$28.43	122.7	\$21.81	163.2	126.9	126.9	\$192.09	88.4	\$0.40	97.8	\$0.95	111.7	94.9	118.6
1995	95AV	\$3.41	138.1	\$30.25	130.5	\$17.82	133.4	130.8	130.8	\$211.29	97.2	\$0.39	94.0	\$0.90	105.5	98.3	122.3
1996	96Q1	\$4.26	172.4	\$30.62	132.2	\$17.31	129.6	131.9	131.9	\$237.58	109.3	\$0.39	94.0	(\$1.00)	-1.0	105.6	132.5
1996	96Q2	\$5.11	206.9	\$31.35	135.3	\$34.29	256.7	147.8	147.8	\$237.47	109.3	\$0.43	103.7	\$1.02	119.1	110.2	146.5
1996	96Q3	\$4.48	181.2	\$36.31	156.7	\$16.92	126.6	153.6	153.6	\$312.26	143.7	\$0.44	106.7	\$1.32	154.8	138.8	153.9
1996	96Q4	\$4.05	164.1	\$35.94	155.1	(\$1.00)	-1.0	155.1	155.1	\$237.47	109.3	\$0.45	108.9	(\$1.00)	-1.0	109.2	144.4
1996	96AV	\$4.46	180.5	\$32.73	141.3	\$19.22	143.9	141.5	141.5	\$265.98	122.4	\$0.43	105.1	\$1.09	128.5	120.2	141.7
1997	97Q1	\$3.60	145.8	\$31.47	135.8	\$20.81	156.0	137.9	137.9	\$229.63	105.7	\$0.42	103.5	\$0.97	113.7	106.9	129.9
1997	97Q2	\$7.09	286.8	\$34.08	147.1	\$24.42	182.8	150.7	150.7	\$269.94	124.2	\$0.46	111.7	\$1.12	131.6	123.3	165.7
1997	97Q3	\$4.08	165.1	\$31.55	136.2	\$24.15	180.8	140.8	140.8	\$257.62	118.5	\$0.49	119.3	\$1.06	124.7	119.9	138.6
1997	97Q4	\$3.65	147.9	\$37.66	162.5	\$18.84	141.1	160.3	160.3	\$268.22	123.4	\$0.45	110.8	(\$1.00)	-1.0	120.4	147.8
1997	97AV	\$4.24	171.7	\$32.92	142.1	\$21.39	160.1	143.9	143.9	\$246.29	113.3	\$0.45	110.8	\$1.01	117.9	113.8	139.6
1998	98Q1	\$5.30	214.4	\$36.20	156.2	\$30.88	231.2	164.0	164.0	\$292.00	134.4	\$0.48	116.2	(\$1.00)	-1.0	129.9	164.4
1998	98Q2	\$4.76	192.6	\$36.52	157.6	\$24.23	181.4	160.1	160.1	\$264.38	121.7	\$0.48	116.0	(\$1.00)	-1.0	120.3	155.8
1998	98Q3	\$2.69	230.4	\$35.21	141.9	\$34.18	255.9	162.6	162.6	\$295.21	135.8	\$0.22	126.6	(\$1.00)	-1.0	133.6	167.5
1998	98Q4	\$4.33	175.0	\$34.53	149.0	\$28.64	214.4	155.8	155.8	\$291.27	134.0	\$0.51	125.1	(\$1.00)	-1.0	131.9	153.1
1998	98AV	\$4.89	198.0	\$35.72	154.2	\$26.54	198.7	158.7	158.7	\$283.01	130.2	\$0.50	122.0	(\$1.00)	-1.0	128.2	158.1
1999	99Q1	\$5.91	239.4	\$36.57	157.8	\$18.57	139.0	155.9	155.9	\$335.29	154.3	\$0.59	144.9	\$0.54	63.8	134.1	163.5
1999	99Q2	\$5.34	216.0	\$35.09	151.4	\$21.90	163.9	152.7	152.7	\$326.59	150.3	\$0.61	149.8	\$1.15	135.3	147.1	161.8
1999	99Q3	\$4.42	178.8	\$36.62	158.1	\$24.59	184.1	160.7	160.7	\$298.62	137.4	\$0.52	125.5	(\$1.00)	-1.0	107.2	147.7
1999	99Q4	\$4.11	166.5	\$33.96	146.6	\$33.04	247.3	156.9	156.9	\$305.27	140.5	\$0.50	121.1	\$1.46	171.1	143.0	154.3
1999	99AV	\$4.94	199.8	\$35.23	152.0	\$22.78	170.5	153.9	153.9	\$310.56	142.9	\$0.54	132.0	\$1.41	165.3	145.3	159.2
2000	00Q1	\$5.11	206.9	\$36.84	159.0	\$21.73	162.7	159.4	159.4	\$341.22	157.0	\$0.45	110.2	(\$1.00)	-1.0	145.7	164.5

Insufficient Data (\$1.0), -1.0

**Summary Report for all the projects awarded from 1/1/99 to 12/31/99**

<i>Project Amount</i>	<i>No. of Projects</i>	<i>No. of Bidders</i>	<i>Total Contract Amt.</i>	<i>Avg. # of Bids</i>
<i>\$0.00 to \$49,999.99</i>	0	0	0	0
<i>\$50,000.00 to \$99,999.99</i>	1	4	\$ 94,865.76	4.0
<i>\$100,000.00 to \$249,999.99</i>	8	34	\$ 1,544,296.27	4.3
<i>\$250,000.00 to \$499,999.99</i>	6	35	\$ 2,614,836.65	5.8
<i>\$500,000.00 to \$999,999.99</i>	4	14	\$ 2,877,718.21	3.5
<i>1,000,000.00 to \$2,499,999.99</i>	15	82	\$24,145,945.93	5.5
<i>2,500,000.00 to \$4,999,999.99</i>	8	38	\$27,586,068.95	4.8
<i>5,000,000.00 to \$9,999,999.99</i>	4	6	\$25,109,184.39	4.0
<i>10,000,000.00 to \$19,999,999.99</i>	3	15	\$41,843,236.90	5.0
<i>20,000,000.00 to \$49,499,999.99</i>	0	0	0	0
<i>50,000,000.00 or Greater</i>	0	0	0	0
<b>Total</b>	<b>49</b>	<b>238</b>	<b>\$125,816,153.06</b>	

**The average number of bidders on all projects awards during this quarter was 4.86 per contract.**

Index Items as a percent of the total construction cost.

1 <sup>st</sup> Quarter 2000 CCI Items:	<b>\$ 51,674,847.44</b>	
	-----	<b>= 41.0 %</b>
1 <sup>st</sup> Quarter 2000 All Construction Items:	<b>\$ 125,816,153.06</b>	

## **COMMENTS:**

This Colorado Construction Cost Index is composed of six indicator items and based on the total quantities used during 1987 (unit index=100).

### **Earthwork (Complete in place):**

\$5.11 a cubic yard. This is up \$1.00 from last quarter, but down \$ 0.80 from the same quarter a year ago. Three large projects in Region II had unusually high bid prices, which contributed to this quarter's increase.

### **Bituminous Pavement:**

\$ 36.84 a ton. This is up \$ 2.88 from last quarter, and up \$ 0.27 from the same quarter a year ago. A high number of relatively small projects bid this quarter contributed to the increase. Small projects tend to have higher comparative unit prices than large projects. In addition, the price increase is attributed to increases in crude oil prices.

### **Concrete Pavement:**

\$21.73 a square yard. This is down \$11.31 from the last quarter, but up \$ 3.16 from the same quarter a year ago. One large project on US 287 having high concrete pavement quantities and low bid prices, is the main factor in the reduction of this price.

### **Structural Steel:**

Due to insufficient quantity of Structural Steel bid this quarter, this item was dropped from consideration for this quarter's index.

### **Structural Concrete:**

\$341.22 a cubic yard. This is up \$35.95 from the prior quarter, and up \$ 5.39 from the same quarter a year ago. This quarter's increase is due to relatively high bid prices on the I-25 – US50/SH 47 interchange project in Pueblo, which contained almost 38% of structural concrete for the quarter, compared to the fourteen other projects that make up the balance.

### **Reinforcing Steel:**

\$0.45 a pound. This is down \$0.05 from last quarter, and down \$ 0.14 from the same quarter a year ago. This quarter's decrease is due to relatively low bid prices on three large projects in Region II, which accounted for nearly 90% of reinforcing steel in thirteen projects bid this quarter.

### **ADDITIONAL INFORMATION:**

For the 1<sup>st</sup> quarter, the categories showing an increase were Earthwork, Bituminous Pavement and Structural Concrete. While, the Concrete Pavement and Reinforcing Steel index levels decreased. There was not enough Structural Steel bid during the quarter to acquire adequate cost data from. Therefore, it was not considered.

49 projects were bid this quarter for a total of \$ 51,674,847.44. The competition for projects increased from 4.79 to 4.86 bidders for each project on average. By comparison, 29 projects were bid last quarter and 26 in the same quarter last year.

Six maintenance contract projects were bid this quarter.

Eight metric projects were bid this quarter. Metric quantities have been converted into English units for inclusion in this report.

No Design/Build projects were bid this quarter.

There were no Lump Sum Bid projects this quarter.