

ENGINEER'S CONSTRUCTION COST ESTIMATE

PROJECT: SHE Signal Safety 2004/2005, I-70 / SH 95

PROJECT NUMBER SHO M320-024, SA 14442

CITY AND COUNTY OF DENVER CONTRACT NO. CE50009

Bid Opening: 6/24/2005

ITEM NO.	CONTRACT ITEM	UNIT	EST. QUAN	UNIT PRICE	COST	Engineer's Estimate				Errors	WL Contractors, Inc		DKS Enterprises Inc		DKS Enterprises Inc		Power Engineers, Inc	
						Unit Cost	Bid Extension	Unit Cost	Bid Extension		Unit Cost	Bid Extension	Unit Cost	Bid Extension	Unit Cost	Bid Extension	Unit Cost	Bid Extension
202	00190	REMOVAL OF CONCRETE MEDIAN COVER MATERIAL	SY	73	\$11.00	\$803.00	\$ 22.50	\$ 1,642.50	\$ 8.70	\$ 635.10	\$ 10.00	\$ 730.00	\$ 21.40	\$ 1,562.20	\$ 21.40	\$ 1,562.20	\$ 21.45	\$ 1,565.85
202	00200	REMOVAL OF SIDEWALK	SY	31	\$16.50	\$511.50	\$ 26.00	\$ 806.00	\$ 9.10	\$ 282.10	\$ 10.00	\$ 310.00	\$ 21.40	\$ 663.40	\$ 21.40	\$ 663.40	\$ 19.85	\$ 615.35
202	00203	REMOVAL OF CURB AND GUTTER	LF	387	\$13.20	\$5,108.40	\$ 9.00	\$ 3,483.00	\$ 7.00	\$ 2,709.00	\$ 8.50	\$ 3,289.50	\$ 10.70	\$ 4,140.90	\$ 10.70	\$ 4,140.90	\$ 13.68	\$ 5,294.16
202	00210	REMOVAL OF CONCRETE PAVEMENT	SY	22	\$16.50	\$363.00	\$ 29.00	\$ 638.00	\$ 15.00	\$ 330.00	\$ 16.00	\$ 352.00	\$ 26.75	\$ 588.50	\$ 26.75	\$ 588.50	\$ 43.50	\$ 957.00
202	00220	REMOVAL OF ASPHALT MAT	SY	70	\$27.50	\$1,925.00	\$ 29.00	\$ 2,030.00	\$ 26.50	\$ 1,855.00	\$ 32.00	\$ 2,240.00	\$ 26.75	\$ 1,872.50	\$ 26.75	\$ 1,872.50	\$ 29.35	\$ 2,054.50
202	00250	REMOVAL OF PAVEMENT MARKING	SF	1,478	\$1.65	\$2,438.70	\$ 2.00	\$ 2,956.00	\$ 2.10	\$ 3,103.80	\$ 2.75	\$ 4,064.50	\$ 2.25	\$ 3,325.50	\$ 2.25	\$ 3,325.50	\$ 1.80	\$ 2,660.40
202	00810	REMOVAL OF GROUND SIGN	EACH	2	\$44.00	\$88.00	\$ 30.00	\$ 60.00	\$ 120.00	\$ 240.00	\$ 20.00	\$ 40.00	\$ 185.00	\$ 370.00	\$ 185.00	\$ 370.00	\$ 178.50	\$ 357.00
202	00828	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	LS	1	\$27,500.00	\$27,500.00	\$ 10,505.00	\$ 10,505.00	\$ 7,698.00	\$ 7,698.00	\$ 19,500.00	\$ 19,500.00	\$ 5,785.00	\$ 5,785.00	\$ 5,785.00	\$ 5,785.00	\$ 15,776.25	\$ 15,776.25
203	01597	POTHOLING	EACH	48	\$110.00	\$5,280.00	\$ 230.00	\$ 11,040.00	\$ 160.00	\$ 7,680.00	\$ 315.00	\$ 15,120.00	\$ 134.00	\$ 6,432.00	\$ 134.00	\$ 6,432.00	\$ 149.54	\$ 7,177.92
208	00020	SILT FENCE	LF	490	\$4.40	\$2,156.00	\$ 5.00	\$ 2,450.00	\$ 2.80	\$ 1,372.00	\$ 1.50	\$ 735.00	\$ 2.75	\$ 1,347.50	\$ 2.75	\$ 1,347.50	\$ 4.67	\$ 2,288.30
208	00045	CONCRETE WASHOUT STRUCTURE	EACH	5	\$880.00	\$4,400.00	\$ 500.00	\$ 2,500.00	\$ 941.00	\$ 4,705.00	\$ 642.00	\$ 3,210.00	\$ 856.00	\$ 4,280.00	\$ 856.00	\$ 4,280.00	\$ 654.50	\$ 3,272.50
208	00050	STORM DRAIN INLET PROTECTION	EACH	9	\$275.00	\$2,475.00	\$ 100.00	\$ 900.00	\$ 225.00	\$ 2,025.00	\$ 206.00	\$ 1,854.00	\$ 295.00	\$ 2,655.00	\$ 295.00	\$ 2,655.00	\$ 210.00	\$ 1,890.00
208	00205	EROSION CONTROL SUPERVISOR	HOUR	20	\$55.00	\$1,100.00	\$ 50.00	\$ 1,000.00	\$ 83.00	\$ 1,660.00	\$ 77.00	\$ 1,540.00	\$ 70.00	\$ 1,400.00	\$ 70.00	\$ 1,400.00	\$ 106.26	\$ 2,125.20
210	00815	RESET SIGN PANEL	EACH	13	\$165.00	\$2,145.00	\$ 100.00	\$ 1,300.00	\$ 66.00	\$ 858.00	\$ 82.00	\$ 1,066.00	\$ 120.00	\$ 1,560.00	\$ 120.00	\$ 1,560.00	\$ 209.19	\$ 2,719.47
210	00848	RESET TRAFFIC SIGNAL CONTROLLER AND CABINET	EACH	1	\$1,100.00	\$1,100.00	\$ 796.00	\$ 796.00	\$ 550.00	\$ 550.00	\$ 753.00	\$ 753.00	\$ 1,300.00	\$ 1,300.00	\$ 1,300.00	\$ 1,300.00	\$ 1,144.50	\$ 1,144.50
250	00110	HEALTH AND SAFETY OFFICER	HOUR	10	\$88.00	\$880.00	\$ 112.00	\$ 1,120.00	\$ 121.00	\$ 1,210.00	\$ 79.00	\$ 790.00	\$ 120.00	\$ 1,200.00	\$ 120.00	\$ 1,200.00	\$ 340.20	\$ 3,402.00
403	00720	HOT BITUMINOUS PAVEMENT (PATCHING) (ASPHALT)	TON	104	\$110.00	\$11,440.00	\$ 150.00	\$ 15,600.00	\$ 129.00	\$ 13,416.00	\$ 101.00	\$ 10,504.00	\$ 120.00	\$ 12,480.00	\$ 120.00	\$ 12,480.00	\$ 110.89	\$ 11,532.56
412	00600	CONCRETE PAVEMENT (6 INCH)	SY	33	\$110.00	\$3,630.00	\$ 41.00	\$ 1,353.00	\$ 41.50	\$ 1,369.50	\$ 50.00	\$ 1,650.00	\$ 58.85	\$ 1,942.05	\$ 58.85	\$ 1,942.05	\$ 101.50	\$ 3,349.50
607	11580	FENCE (TEMPORARY)	LF	500	\$5.50	\$2,750.00	\$ 3.00	\$ 1,500.00	\$ 1.20	\$ 600.00	\$ 4.50	\$ 2,250.00	\$ 8.60	\$ 4,300.00	\$ 8.60	\$ 4,300.00	\$ 4.77	\$ 2,385.00
608	00000	CONCRETE SIDEWALK	SY	18	\$27.50	\$495.00	\$ 40.00	\$ 720.00	\$ 42.50	\$ 765.00	\$ 50.00	\$ 900.00	\$ 51.40	\$ 925.20	\$ 51.40	\$ 925.20	\$ 65.73	\$ 1,183.14
608	00010	CONCRETE CURB RAMP	SY	81	\$77.00	\$6,237.00	\$ 102.00	\$ 8,262.00	\$ 120.00	\$ 9,720.00	\$ 146.00	\$ 11,826.00	\$ 267.50	\$ 21,667.50	\$ 267.50	\$ 21,667.50	\$ 85.17	\$ 6,898.77
609	21010	CURB AND GUTTER TYPE 2 (SECTION I-B)	LF	50	\$16.50	\$825.00	\$ 22.00	\$ 1,100.00	\$ 14.75	\$ 737.50	\$ 17.00	\$ 850.00	\$ 26.75	\$ 1,337.50	\$ 26.75	\$ 1,337.50	\$ 28.77	\$ 1,438.50
609	21020	CURB AND GUTTER TYPE 2 (SECTION II-B)	LF	232	\$14.30	\$3,317.60	\$ 22.50	\$ 5,220.00	\$ 15.20	\$ 3,526.40	\$ 19.00	\$ 4,408.00	\$ 23.55	\$ 5,463.60	\$ 23.55	\$ 5,463.60	\$ 32.17	\$ 7,463.44
610	00030	MEDIAN COVER MATERIAL (CONCRETE)	SY	10	\$22.00	\$220.00	\$ 25.00	\$ 250.00	\$ 67.50	\$ 675.00	\$ 164.00	\$ 1,640.00	\$ 96.30	\$ 963.00	\$ 96.30	\$ 963.00	\$ 22.40	\$ 224.00
613	00200	2 INCH ELECTRICAL CONDUIT	LF	1,930	\$18.70	\$36,091.00	\$ 15.00	\$ 28,950.00	\$ 15.50	\$ 29,915.00	\$ 14.00	\$ 27,020.00	\$ 15.10	\$ 29,143.00	\$ 15.10	\$ 29,143.00	\$ 11.39	\$ 21,982.70
613	00300	3 INCH ELECTRICAL CONDUIT	LF	2,880	\$19.80	\$57,024.00	\$ 16.00	\$ 46,080.00	\$ 14.75	\$ 42,480.00	\$ 15.00	\$ 43,200.00	\$ 14.35	\$ 41,328.00	\$ 14.35	\$ 41,328.00	\$ 13.38	\$ 38,534.40
613	07000	PULL BOX (SPECIAL)	EACH	3	\$550.00	\$1,650.00	\$ 414.00	\$ 1,242.00	\$ 672.00	\$ 2,016.00	\$ 758.00	\$ 2,274.00	\$ 555.00	\$ 1,665.00	\$ 555.00	\$ 1,665.00	\$ 289.10	\$ 867.30
613	10000	WIRING	LS	1	\$3,300.00	\$3,300.00	\$ 21,000.00	\$ 21,000.00	\$ 37,000.00	\$ 37,000.00	\$ 10,662.00	\$ 10,662.00	\$ 19,655.00	\$ 19,655.00	\$ 19,655.00	\$ 19,655.00	\$ 20,884.50	\$ 20,884.50
613	70250	LUMINAIRE HIGH PRESSURE SODIUM (250 WATT)	EACH	20	\$880.00	\$17,600.00	\$ 1,302.00	\$ 26,040.00	\$ 1,260.00	\$ 25,200.00	\$ 1,305.00	\$ 26,100.00	\$ 1,220.00	\$ 24,400.00	\$ 1,220.00	\$ 24,400.00	\$ 1,370.25	\$ 27,405.00
614	00011	SIGN PANEL (CLASS I)	SF	48	\$27.50	\$1,320.00	\$ 27.09	\$ 1,300.32	\$ 18.00	\$ 864.00	\$ 19.00	\$ 912.00	\$ 27.00	\$ 1,296.00	\$ 27.00	\$ 1,296.00	\$ 80.89	\$ 3,882.72

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CITY AND COUNTY OF DENVER CONTRACT NO. CE50009

Bid Opening: 6/24/2005

ITEM NO.	CONTRACT ITEM	UNIT	EST. QUAN	UNIT PRICE	COST	Engineer's Estimate		Sturgeon Electric Company		Errors	WL Contractors, Inc		DKS Enterprises Inc		DKS Enterprises Inc		Power Engineers, Inc												
						Colorado Signal Company	Merchants Bonding Company	Unit Cost	Bid Extension		Unit Cost	Bid Extension	Safeco Insurance Company of America	Hartford Casualty Insurance Company	Hartford Casualty Insurance Company	Fidelity & Deposit Company of Maryland	Unit Cost	Bid Extension	Unit Cost	Bid Extension	Unit Cost	Bid Extension							
614	01502 STEEL SIGN POST (2 INCH ROUND)	LF	106	\$27.50	\$2,915.00	\$	12.65	\$	1,340.90	\$	9.00	\$	954.00	\$	12.00	\$	1,272.00	\$	40.25	\$	4,266.50	\$	40.25	\$	4,266.50	\$	24.53	\$	2,600.18
614	70117 PEDESTRIAN SIGNAL FACE (16)	EACH	36	\$660.00	\$23,760.00	\$	480.00	\$	17,280.00	\$	460.00	\$	16,560.00	\$	582.00	\$	20,952.00	\$	582.00	\$	20,952.00	\$	582.00	\$	20,952.00	\$	421.95	\$	15,190.20
614	70336 TRAFFIC SIGNAL FACE (12-12-12)	EACH	61	\$990.00	\$60,390.00	\$	725.00	\$	44,225.00	\$	785.00	\$	47,885.00	\$	810.00	\$	49,410.00	\$	847.00	\$	51,667.00	\$	847.00	\$	51,667.00	\$	902.31	\$	55,040.91
614	70560 TRAFFIC SIGNAL FACE (12-12-12-12)	EACH	14	\$1,320.00	\$18,480.00	\$	1,229.00	\$	17,206.00	\$	1,180.00	\$	16,520.00	\$	1,119.00	\$	15,666.00	\$	1,120.00	\$	15,680.00	\$	1,120.00	\$	15,680.00	\$	1,248.03	\$	17,472.42
614	72860 PEDESTRIAN PUSH BUTTON	EACH	16	\$264.00	\$4,224.00	\$	405.00	\$	6,480.00	\$	170.00	\$	2,720.00	\$	143.00	\$	2,288.00	\$	203.00	\$	3,248.00	\$	203.00	\$	3,248.00	\$	167.02	\$	2,672.32
614	72866 FIRE PREEMPTION UNIT AND TIMER	EACH	5	\$6,325.00	\$31,625.00	\$	6,417.00	\$	32,085.00	\$	2,820.00	\$	14,100.00	\$	6,336.00	\$	31,680.00	\$	6,835.00	\$	34,175.00	\$	6,835.00	\$	34,175.00	\$	5,295.78	\$	26,478.90
614	72875 LOOP DETECTOR WIRE	LF	6,400	\$2.20	\$14,080.00	\$	2.03	\$	12,992.00	\$	2.55	\$	16,320.00	\$	1.90	\$	12,160.00	\$	2.75	\$	17,600.00	\$	2.75	\$	17,600.00	\$	2.25	\$	14,400.00
614	72886 INTERSECTION DETECTION SYSTEM (CAMERA)	EACH	1	\$27,500.00	\$27,500.00	\$	30,992.00	\$	30,992.00	\$	25,410.00	\$	25,410.00	\$	27,000.00	\$	27,000.00	\$	21,325.00	\$	21,325.00	\$	21,325.00	\$	21,325.00	\$	24,748.50	\$	24,748.50
614	72887 MICROWAVE VEHICLE RADAR DETECTOR	EACH	1	\$13,200.00	\$13,200.00	\$	948.00	\$	948.00	\$	910.00	\$	910.00	\$	1,000.00	\$	1,000.00	\$	6,500.00	\$	6,500.00	\$	6,500.00	\$	6,500.00	\$	2,091.60	\$	2,091.60
614	75855 TRAFFIC SIGNAL CONTROLLER CABINET (INSTALL ONLY)	EACH	2	\$1,100.00	\$2,200.00	\$	746.00	\$	1,492.00	\$	570.00	\$	1,140.00	\$	917.00	\$	1,834.00	\$	2,950.00	\$	5,900.00	\$	2,950.00	\$	5,900.00	\$	756.00	\$	1,512.00
614	75880 TRAFFIC SIGNAL VEHICLE DETECTOR AMPLIFIER (LOOP TYPE)	EACH	4	\$1,100.00	\$4,400.00	\$	10.00	\$	40.00	\$	355.00	\$	1,420.00	\$	50.00	\$	200.00	\$	250.00	\$	1,000.00	\$	250.00	\$	1,000.00	\$	40.03	\$	160.12
614	81010 TRAFFIC SIGNAL-LIGHT POLE STEEL (1 MAST ARM)	EACH	18	\$12,100.00	\$217,800.00	\$	16,949.00	\$	305,082.00	\$	18,561.00	\$	334,098.00	\$	17,535.00	\$	315,630.00	\$	18,835.00	\$	339,030.00	\$	18,835.00	\$	339,030.00	\$	17,203.61	\$	309,664.98
614	84000 TRAFFIC SIGNAL-LIGHT POLE STEEL	EACH	2	\$4,400.00	\$8,800.00	\$	6,498.00	\$	12,996.00	\$	10,315.00	\$	20,630.00	\$	7,093.00	\$	14,186.00	\$	10,475.00	\$	20,950.00	\$	10,475.00	\$	20,950.00	\$	9,542.37	\$	19,084.74
614	86105 TELEMETRY (FIELD)	EACH	1	\$2,750.00	\$2,750.00	\$	2,780.00	\$	2,780.00	\$	2,190.00	\$	2,190.00	\$	355.00	\$	355.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	6,196.75	\$	6,196.75
614	86550 TRAFFIC SIGNAL CONTROLLER (SOLID STATE) (FULLY ACTU)	EACH	2	\$330.00	\$660.00	\$	150.00	\$	300.00	\$	500.00	\$	1,000.00	\$	66.00	\$	132.00	\$	1,950.00	\$	3,900.00	\$	1,950.00	\$	3,900.00	\$	409.50	\$	819.00
626	00000 MOBILIZATION	LS	1	\$36,977.11	\$36,977.11	\$	41,592.00	\$	41,592.00	\$	23,000.00	\$	23,000.00	\$	6,050.00	\$	6,050.00	\$	25,000.00	\$	25,000.00	\$	25,000.00	\$	25,000.00	\$	29,220.00	\$	29,220.00
627	30410 PREFORMED THERMO PVMT MRKG (XWALK-STOPLINE)	SF	2,637	\$7.70	\$20,304.90	\$	7.00	\$	18,459.00	\$	8.00	\$	21,096.00	\$	10.00	\$	26,370.00	\$	9.50	\$	25,051.50	\$	9.50	\$	25,051.50	\$	11.52	\$	30,378.24
630	00000 FLAGGING	hour	800	\$28.60	\$22,880.00	\$	19.00	\$	15,200.00	\$	19.75	\$	15,800.00	\$	22.00	\$	17,600.00	\$	28.95	\$	23,160.00	\$	28.95	\$	23,160.00	\$	21.40	\$	17,120.00
630	00003 UNIFORMED TRAFFIC CONTROL	hour	50	\$55.00	\$2,750.00	\$	50.00	\$	2,500.00	\$	52.00	\$	2,600.00	\$	61.00	\$	3,050.00	\$	67.00	\$	3,350.00	\$	67.00	\$	3,350.00	\$	57.89	\$	2,894.50
630	00012 TRAFFIC CONTROL MANAGEMENT	DAY	100	\$385.00	\$38,500.00	\$	320.00	\$	32,000.00	\$	330.00	\$	33,000.00	\$	332.00	\$	33,200.00	\$	485.00	\$	48,500.00	\$	485.00	\$	48,500.00	\$	360.29	\$	36,029.00
630	80341 CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	20	\$44.00	\$880.00	\$	25.00	\$	500.00	\$	29.00	\$	580.00	\$	28.00	\$	560.00	\$	45.00	\$	900.00	\$	45.00	\$	900.00	\$	28.00	\$	560.00
630	80342 CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	60	\$88.00	\$5,280.00	\$	60.00	\$	3,600.00	\$	63.00	\$	3,780.00	\$	45.00	\$	2,700.00	\$	56.00	\$	3,360.00	\$	56.00	\$	3,360.00	\$	67.20	\$	4,032.00
630	80358 ADVANCED WARNING FLASHING OR SEQUENCING ARROW P	EACH	2	\$1,430.00	\$2,860.00	\$	750.00	\$	1,500.00	\$	801.00	\$	1,602.00	\$	829.00	\$	1,658.00	\$	860.00	\$	1,720.00	\$	860.00	\$	1,720.00	\$	887.25	\$	1,774.50
630	80360 DRUM CHANNELIZING DEVICE	EACH	70	\$44.00	\$3,080.00	\$	30.00	\$	2,100.00	\$	31.50	\$	2,205.00	\$	22.00	\$	1,540.00	\$	25.00	\$	1,750.00	\$	25.00	\$	1,750.00	\$	34.95	\$	2,446.50
630	80380 TRAFFIC CONE	EACH	100	\$5.50	\$550.00	\$	4.00	\$	400.00	\$	4.70	\$	470.00	\$	6.50	\$	650.00	\$	8.75	\$	875.00	\$	8.75	\$	875.00	\$	4.48	\$	448.00
700	70010 MINOR CONTRACT REVISIONS	FA	1	\$20,000.00	\$20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00
700	70072 OBTAIN POWER SOURCE FROM XCEL	FA	1	\$5,000.00	\$5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00
700	70310 LANDSCAPE RESTORATION	FA	1	\$2,500.00	\$2,500.00	\$	2,500.00	\$	2,500.00	\$	2,500.00	\$	2,500.00	\$	2,500.00	\$	2,500.00	\$	2,500.00	\$	2,500.00	\$	2,500.00	\$	2,500.00	\$	2,500.00	\$	2,500.00
700	70380 EROSION CONTROL	FA	1	\$2,000.00	\$2,000.00	\$	2,000.00	\$	2,000.00	\$	2,000.00	\$	2,000.00	\$	2,000.00	\$	2,000.00	\$	2,000.00	\$	2,000.00	\$	2,000.00	\$	2,000.00	\$	2,000.00	\$	2,000.00
700	70589 ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT	LS	1	\$5,000.00	\$5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00	\$	5,000.00
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>					<b>\$805,519.21</b>			\$	<b>840,433.72</b>	\$	<b>845,687.40</b>			\$	<b>821,433.00</b>	\$	<b>924,408.35</b>	\$	<b>924,408.35</b>	\$	<b>924,408.35</b>	\$	<b>924,408.35</b>	\$	<b>924,408.35</b>	\$	<b>858,867.29</b>	\$	<b>858,867.29</b>