



COLORADO
Department of Transportation
Office of the Chief Engineer

TO: SHOSHANA M. LEW, EXECUTIVE DIRECTOR
FROM: MARKOS ATAMO, PE, CES BRANCH MANAGER
CC: STEPHEN HARELSON, PE, CHIEF ENGINEER ^{SH}
STEPHEN BOKROS, PE, CES UNIT MANAGER ^{SB}
DATE: 10/28/2021
SUBJECT: AWARD TO LOW RESPONSIVE BIDDER C.R.S. 43-1-113 (16)
PROJECT: COMBO PROJECT FBR 092A-028 (22943) AND STR 092A-032 (24139) REGION 3
SH 92 RESURFACING AND GUNNISON RIVER BRIDGE REPLACEMENT

Pursuant to C.R.S. 43-1-113(16), it has been determined that it is in the best financial and economic interest of the State to award Region 3's Combo Project FBR 092A-028 (22943) and STR 092A-032 (24139) to the low bidder Ralph L. Wadsworth Construction Company, LLC.

Project Description: This Region 3 project located in Delta County for SH 92 resurfacing and bridge replacement improvements over the Gunnison River. The project was solicited under a design bid build (low bid) project delivery method where only one bid was received with Ralph L. Wadsworth Construction Company, LLC (RLW) being the lowest responsive bidder.

Financial Impact: RLW's low bid proposal totaled \$12,613,255.77 compared to the CDOT engineer's estimate of \$11,033,818.30. The project risks rejection by Statute since there were less than three bids received and the low bidder's proposal was 114.31% of the engineer's estimate. Region 3 has verified they have funding available for the award of the project to RLW.

Cost Analysis: An analysis of the bid schedule revealed that the bid line items identified below resulted in the overall bid from RLW being more than 10% over CDOT's engineer's estimate for the project.

Bid Item Description	QTY	Unit	Unit Price Eng. Est. & Low Bid		Total Cost Difference	% Over Eng. Estimate
TEMPORARY BRIDGE	1	LS	\$750,000.00	\$1,750,000.00	\$1,000,000.00	9%

The overall engineer's estimate for the bid was based on historical data from similar projects with comparable quantities. The project requires the contractor to design, install and remove the temporary bridge as part of the overall scope of work. According to RLW the temporary bridge pricing reflects permit limits of a 250 length across the Gunnison River, remote project location, bridge supplier costs impacted by volatile material price increases including significant steel price increases, specialty labor and equipment, and the bridge substructure portion completion schedule of on or before April 1, 2022 (see attached RLW bid price justification letter for further details). It is necessary to complete the project work during the November to April time frame for the seasonal river low flow period. Full completion schedule is on or before October 31, 2022. According to the NYSE American Steel Index there was a 15% increase in Steel prices per ton between July to August 2021.

The project will improve needed roadway safety in Region 3. It is imperative that this project be awarded as soon as possible. Re-advertisement would risk delaying these important improvements.

Based on the cost analysis, CES and Region 3 consider RLW's overall proposed bid pricing to be fair and reasonable.

The region concurred with the analysis and verified funding is available.

Staff Review & Recommendation: Given the overall project dynamics mentioned above, re-advertisement of the project is unlikely to result in more competition or reduced pricing. The Region 3 Project Management Team's analysis and recommendation to award the project is provided in the attached memorandum to this request. As a result, staff recommends proceeding with the award of the project to Ralph L. Wadsworth Construction Company, LLC.

I recommend award  Date 10/29/21
Markos Atamo (Oct 29, 2021 09:22 MDT)
Markos Atamo, PE, CES Branch Manager

I recommend award  Date 10/31/21
Shoshana Lew (Oct 31, 2021 21:03 MDT)
Shoshana M. Lew, Executive Director

cc: Stephen Bokros, Cost Estimating Services
Markos Atamo, Construction Engineering Services
Jerad Esquibel, Project Support Services
RB Simmons, Construction Contract Services
Records Center



COLORADO
Department of Transportation
Region 3

Montrose Residency
2424 N. Townsend Avenue
Montrose, CO 81401

MEMORANDUM

TO: STEPHEN BOKROS, P.E.
FROM: RAELENE SHELLY, P.E.
DATE: OCTOBER 18, 2021
SUBJECT: 22943 & 24139 COST JUSTIFICATION

Dear Stephen,

The Region and Bridge Enterprise would like to continue with the Award of combo project FBR 092A-028, SA# 22943, and STR 092A-032, SA# 24139, despite the higher than anticipated bid prices.

Review of the bid tabs resulted in the following findings:

- 210-00000 Clearing and Grubbing (\$250,000 overrun) - This item is being used to remove trees, logs, limbs, brush, trash, etc. to an offsite location. Additionally, this item also includes removal of existing topsoil which can be a labor-intensive process. The overrun is due to the work associated with the topsoil removal and replacement and was a misunderstanding by the engineer of the work involved.
- 202-00400 Removal of Bridge (\$200,000 overrun) - The bridge needs to be removed nearly piece by piece and cannot be cut with a torch due to the trusses being adopted. This item can be difficult to estimate, though the overrun appears reasonable.
- 203-00060 Embankment Material (Complete in Place) (\$275,357.10 overrun) - This work is associated with the embankment for the temporary bridge structure and needs to be removed after the project is complete. Embankment items generally remain in place, therefore, the \$8.90 premium for the removal upon project completion is reasonable.
- 208-00400 Water Control (\$200,000 overrun) - This work involves managing varying groundwater, stormwater, and instream flows in the river for 11 months during construction and contains considerable risk that is difficult to quantify. CDOT has not bid this extensive a water control effort in several years.
- 403-36701 Hot Mix Asphalt (Grading ST)(75)(With Fiber) (\$81,678.24 overrun) - The unit price (\$104.00 per Ton) for this item seems a bit high compared to a project last year (\$63.50 per Ton) with the same item; however, item 403-34701 Hot Mix Asphalt (Grading SX)(75) has a total bid savings of \$155,757.00. When looking at both items together, the bid price has a lower total price (\$1,088,222.04) versus the total Engineer's estimate (\$1,162,300.80) for a total underrun of \$74,078.76. Additionally, the overall cost for the Asphalt Cement items were bid \$19,354.97 lower than the estimate.
- 602-00025 Reinforcing Steel (Stainless) (\$86,119.20 overrun) - The unit price for this item (\$4.10 per pound) seems reasonable for the current market conditions and that this is a rare item. Additionally, item 601-03040 Concrete Class D has a total bid savings of \$247,500.00. When looking at both items together, the bid price has a lower total price (\$1,330,981.20) than the



Engineer's estimate (\$1,492,362.00) for a total underrun of \$161,380.80. The alternative to these items would be Concrete Class G and Epoxy Reinforcing Steel. While the Epoxy Reinforcing would yield a lower unit cost, the Concrete Class G would yield a higher unit cost since a pre-approved mix design is not available for the western slope.

- 621-00500 Temporary Bridge (\$1,000,000.00 overrun) - This item alone counts for over 60 percent of the total overrun. During design, CDOT consulted Acrow regarding the temporary bridge. In February 2021, Acrow provided an estimate for one 250-foot long 700XS Acrow Panel Bridge, 30-foot wide curb to curb. The estimate for 4 months of rental was \$313,200 and a rental rate for each additional month beyond the initial 4 months was \$43,500. Using these numbers, CDOT estimated a rental time of 10 months totaled \$574,200. We also added in \$55,000 for installation and removal and \$75,000 for other miscellaneous items, for a total estimate of \$705,000 for 10 months. The design team decided a minimum 26-foot-wide bridge would be sufficient for maintenance and to allow the contractor to find something less expensive; therefore, the cost for the temporary bridge was rounded up to \$750,000 for the final engineer's estimate.

During the Mandatory Pre-Bid meeting on September 8, 2021, a representative from Acrow Bridge attended the meeting and informed all attendees that their supply of temporary bridges 26-feet in width was exhausted due to the hurricane and flooding events in other parts of the country. The demand for these emergencies is not something CDOT nor Acrow would have been able to predict back in February when we received the estimate. Acrow did ask CDOT if a 24-foot-wide temporary bridge would be sufficient; however, this was not acceptable due to plowing and the width of the plows. This is also why a minimum 26-foot-wide bridge was specified in the plans. The day after the pre-bid, the Acrow representative confirmed they have 30-foot-wide temporary bridges in stock, that they could "hold" for this project but only if the low bid contractor sends Acrow a PO following the Notice of Award for the bridge. Since we are in an ABR and having to delay award to get Transportation Commission approval, we are hoping Acrow is working with RL Wadsworth and still holding a structure for this project. Since then, the demand for temporary bridges has increased, therefore, also increasing the cost. Based on current demands and market conditions, this overrun is reasonable. The temporary bridge will not be load restricted, therefore, all legal loads will be able to stay on SH 92 instead of detouring on local roads. Additionally, a redesign of this item to accommodate a re-advertisement would not be realistic.

The project team researched several other temporary bridge suppliers and found their bridges were either not long enough or not wide enough. Additionally, the companies said they could not meet our schedule or were otherwise unable to work with us on this project.

- 626-00000 Mobilization (\$100,000.00 overrun) - This one is always difficult to estimate but the bid does not look out of line since it did come within 10% of the total bid price.
- 630-80372 Concrete Barrier (Temporary)(Furnish and Install) (\$100,567.50 overrun) - This item includes transporting the barrier to the project site as well as installation. The project site is in a remote area, therefore, the unit price of \$79.15 per LF from the low bid contractor appears reasonable.

Other items such as the concrete girders, field facilities, surveying, pavement marking, and traffic control items also contributed to the overall overrun of the bid price. Pavement marking items have been in short supply this year and I think we are starting to see higher unit costs related to those shortages. Unfortunately, there is no great explanation for the high unit prices associated with the Traffic Control items; however, this is the second project I've seen this year with higher than usual unit prices.




As mentioned periodically with other items above, several items had significantly lower prices than the Engineer's estimate, such as removal of asphalt mat, some erosion control items, precast concrete bridge deck panels, waterproofing membrane, and slope and ditch paving. The overall cost of Aggregate Base Course (Class 1, 6, and 7) was bid \$124,911.45 less than Engineer's estimate and 24-inch Riprap (506-00224) was bid \$111,085.60 less. The unit price for Detour Pavement (621-00450) was \$10.75 less, resulting in a savings of \$55,480.75. Despite the higher Traffic Control device prices, Traffic Control Management (630-00012) was bid at \$727.20 per Day, resulting in a \$65,472.00 savings.

At this point, I do not believe we would achieve any appreciable savings through design modifications and re-advertisement of the project.

Additionally, the timing of the project is becoming critical. The trusses are being adopted by two local agencies and CDOT needs to do our part to ensure we don't delay those adoptions. From a project perspective, time is of the essence as it relates to construction phasing with the river restrictions. The project included an incentive up to \$100,000.00 for the Contractor to complete all work in the river by April 1. Based on the river restriction alone, this project would not be able to be re-advertised until next summer. This bridge has been load rated for several years and experiences more damage every day. As stated above, the temporary bridge will allow all legal loads, eliminating the need for the current detour and stop any further damage to local roads. By awarding the project now, versus re-advertising, the temporary bridge can get installed, traffic can be routed to the temporary bridge, and demolition of the existing bridge can commence as soon as possible, allowing the construction of the new structure before the April 1 start date of the river restriction versus waiting another nine months to a year.

In conclusion, Bridge Enterprise and Region 3 Surface Treatment Asset Management have funds available to add to the project in order to move forward with Award to the low bidder.





Ralph L. Wadsworth Construction Co., LLC
166 East 14000 South Suite 200
Draper, Utah 84020
Phone: 801-553-1661 Fax: 801-553-1696



September 22, 2021

Mr. George Demos,

The intent of this letter is to provide justification of Ralph L. Wadsworth Construction Company's (RLW) pricing regarding Colorado Department of Transportation (CDOT) project FBR 092A-028 & STR 092A-032 – Combo Project (Delta). Specifically, it will focus on bid item **0530 – 621-00500 – Temporary Bridge**.

In the specifications provided for the project regarding the Temporary Bridge, it states that the contractor will be responsible for all labor, equipment, and materials required to design, construct, inspect, maintain, repair, and remove the temporary bridge. The items below are the primary reason for an increase in cost:

- Contract requirements for a 250 foot clear-span bridge requirement across the Gunnison River because of permit limitations.
- 70% increase in structural steel material costs within just 2021.
- The temporary bridge supplier was unable to provide a bridge with a width of 26 feet. The question was asked to CDOT if a narrower bridge would be allowed but it was not because of snow plow maintenance. RLW's bid included a 30 foot wide bridge to meet requirements of the specifications. The wider bridge increased the amount of steel, transportation loads, foundations and crew requirements by more than 20%.
- Requirement for all in river work to be completed by the April 1st, 2022 milestone that requires additional labor, equipment and overtime in a remote location
- Increased labor costs for specialized personal in order to erect the structural steel truss
- Specialized equipment required to launch the truss from staged at the abutment across the Gunnison River

We hope this provides you the information required

Thanks
Cole Frost, P.E.
Chief Estimator



Colorado Department Of Transportation

Printed On: **09/16/2021**

Low Bid Summary

Page 1 of 1

Letting Date: September 16, 2021

Call Order	Contract ID	Project(s)	# of Bids	Low Bidder	Estimated Cost	Corrected Bid	Percent of Estimate	Overrun (+) Underrun (-)
001	C22943-COMBO	FBR092A-028, STR092A-032	1	RALPH L. WADSWORTH CONSTRUCTION COMPANY, LLC.	\$11,033,818.30	\$12,613,255.77	114.31%	\$1,579,437.47
Letting Totals					\$11,033,818.30	\$12,613,255.77	114.31%	\$1,579,437.47

**Colorado Department Of Transportation
Vendor Ranking**

Contract ID: C22943-COMBO

Contract Description:

Project No./Code: FBR 092A-028

Project Name: SH 92 Over The Gunnison River BR I-05-V.

Project Description: The project is located in Delta County on SH 92 from MP 6.25-6.51. The work includes the removal of the existing bridge I-05-V over the Gunnison River and replacing it with a new bridge, STR. I-05-VA. Improvements include shoofly detour, grading & temporary bridge, drainage, paving, traffic control management, signing, and striping.

Project No./Code: STR 092A-032

Project Name: SH 92 West Of Austin Resurfacing MP 4-7

Project Description: The project is located in Delta County on SH 92 from MP 4.21-6.25 and MP 6.51-6.97. It is a surface treatment project consisting of a 1-inch HMA leveling with fiber with a 1.5-inch HMA overlay. The project will also include guardrail replacement, pavement marking, and traffic control.

A mandatory pre-bid conference will be held on 09/08/21 at 01:30 PM at the CDOT Montrose Residency Office at 2424 North Townsend Avenue, Montrose, Colorado 81401, to present a brief overview of the project and to answer questions from prospective bidders. Bids will be accepted only from pre-qualified bidders who attend the mandatory pre-bid conference.

Rank	Vendor ID	Vendor Name	Total Bid	Percent Of Low Bid	Percent Of Estimate
0	-EST-	Engineer's Estimate	\$11,033,818.30	87.48%	100.00%
1	1415A	RALPH L. WADSWORTH CONSTRUCTION COMPANY, LLC.	\$12,613,255.77	100.00%	114.31%

Tabulation of Bids

Contract ID: C22943-COMBO

Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1415A RALPH L. WADSWORTH CONSTRUCTION CO., LLC	
			Unit Price	Amount	Unit Price	Amount
SECTION: 0001 BID ITEMS						
201-00000	Clearing and Grubbing	1.000 L S	50,000.00000	50,000.00	300,000.00000	300,000.00
202-00010	Removal of Tree	20.000 EACH	800.00000	16,000.00	400.85000	8,017.00
202-00027	Removal of Riprap	86.000 SY	25.00000	2,150.00	22.15000	1,904.90
202-00035	Removal of Pipe	104.000 LF	30.00000	3,120.00	36.80000	3,827.20
202-00090	Removal of Delineator	90.000 EACH	10.00000	900.00	11.55000	1,039.50
202-00220	Removal of Asphalt Mat	3,636.000 SY	12.00000	43,632.00	3.05000	11,089.80
202-00240	Removal of Asphalt Mat (Planing)	6,866.000 SY	6.00000	41,196.00	4.60000	31,583.60
202-00250	Removal of Pavement Marking	19,706.000 SF	1.50000	29,559.00	2.10000	41,382.60
202-00400	Removal of Bridge	1.000 EACH	500,000.00000	500,000.00	700,000.00000	700,000.00
202-00810	Removal of Ground Sign	4.000 EACH	150.00000	600.00	157.60000	630.40
202-01000	Removal of Fence	1,712.000 LF	2.00000	3,424.00	2.75000	4,708.00
202-01035	Removal of Gate	1.000 EACH	300.00000	300.00	502.00000	502.00
202-01130	Removal of Guardrail Type 3	407.000 LF	10.00000	4,070.00	7.55000	3,072.85
202-01300	Removal of End Anchorage	8.000 EACH	500.00000	4,000.00	382.25000	3,058.00
203-00060	Embankment Material (Complete In Place)	30,939.000 CY	30.00000	928,170.00	38.90000	1,203,527.10

Tabulation of Bids

Contract ID: C22943-COMBO

Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1415A RALPH L. WADSWORTH CONSTRUCTION CO., LLC	
			Unit Price	Amount	Unit Price	Amount
SECTION:	0001	BID ITEMS				
203-01500	Blading	60,000 HOUR	180.00000	10,800.00	218.30000	13,098.00
203-01510	Backhoe	20,000 HOUR	190.00000	3,800.00	238.10000	4,762.00
203-01550	Dozing	20,000 HOUR	200.00000	4,000.00	225.35000	4,507.00
203-01555	Dozing (Landscaping)	10,000 HOUR	200.00000	2,000.00	225.35000	2,253.50
203-01594	Combination Loader	30,000 HOUR	200.00000	6,000.00	266.90000	8,007.00
203-01597	Potholing	30,000 HOUR	400.00000	12,000.00	578.55000	17,356.50
203-02330	Laborer	60,000 HOUR	60.00000	3,600.00	37.30000	2,238.00
206-00000	Structure Excavation	180,000 CY	80.00000	14,400.00	28.80000	5,184.00
206-00100	Structure Backfill (Class 1)	500,000 CY	100.00000	50,000.00	82.40000	41,200.00
206-00200	Structure Backfill (Class 2)	60,000 CY	50.00000	3,000.00	69.35000	4,161.00
206-00360	Mechanical Reinforcement of Soil	500,000 CY	35.00000	17,500.00	28.10000	14,050.00
207-00700	Topsoil (Onsite)	2,122,000 CY	30.00000	63,660.00	14.40000	30,556.80
208-00002	Erosion Log Type 1 (12 Inch)	8,300,000 LF	7.00000	58,100.00	4.50000	37,350.00
208-00013	Erosion Log Type 1 (20 Inch)	350,000 LF	8.00000	2,800.00	6.75000	2,362.50
208-00035	Aggregate Bag	200,000 LF	7.00000	1,400.00	11.45000	2,290.00

Tabulation of Bids

Contract ID: C22943-COMBO

Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1415A RALPH L. WADSWORTH CONSTRUCTION CO., LLC	
			Unit Price	Amount	Unit Price	Amount
SECTION:	0001	BID ITEMS				
208-00046	Pre-fabricated Concrete Washout Structure (Type 1)	2.000 EACH	3,000.00000	6,000.00	4,438.80000	8,877.60
208-00070	Vehicle Tracking Pad	2.000 EACH	4,000.00000	8,000.00	2,774.30000	5,548.60
208-00103	Removal and Disposal of Sediment (Labor)	120.000 HOUR	60.00000	7,200.00	48.85000	5,862.00
208-00105	Removal and Disposal of Sediment (Equipment)	40.000 HOUR	135.00000	5,400.00	88.75000	3,550.00
208-00106	Sweeping (Sediment Removal)	90.000 HOUR	170.00000	15,300.00	332.90000	29,961.00
208-00107	Removal of Trash	50.000 HOUR	150.00000	7,500.00	55.50000	2,775.00
208-00207	Erosion Control Management	100.000 DAY	300.00000	30,000.00	110.95000	11,095.00
208-00400	Water Control	1.000 L S	100,000.00000	100,000.00	300,000.00000	300,000.00
210-01011	Reset Gate	1.000 EACH	700.00000	700.00	827.50000	827.50
212-00009	Seeding (Temporary)	1.300 ACRE	2,000.00000	2,600.00	682.35000	887.06
212-00700	Organic Fertilizer	1,227.000 LB	2.00000	2,454.00	1.40000	1,717.80
212-00702	Biotic Soil Amendments (Hydraulically Applied)	1,050.000 LB	1.50000	1,575.00	1.40000	1,470.00
212-00703	Humate	818.000 LB	2.00000	1,636.00	1.10000	899.80
212-00706	Seeding (Native) Drill	3.800 ACRE	2,000.00000	7,600.00	901.25000	3,424.75

Tabulation of Bids

Contract ID: C22943-COMBO

Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1415A RALPH L. WADSWORTH CONSTRUCTION CO., LLC	
			Unit Price	Amount	Unit Price	Amount
SECTION:	0001	BID ITEMS				
212-00707	Seeding (Native) Hydraulic	0.300 ACRE	2,000.00000	600.00	1,653.50000	496.05
213-00004	Mulching (Weed Free Straw)	3.800 ACRE	1,500.00000	5,700.00	1,234.40000	4,690.72
213-00011	Mulching (Hydraulic)	1.300 ACRE	2,500.00000	3,250.00	1,613.30000	2,097.29
213-00061	Mulch Tackifier	760.000 LB	3.00000	2,280.00	3.75000	2,850.00
214-00220	Deciduous Tree (2 Inch Caliper)	20.000 EACH	800.00000	16,000.00	609.50000	12,190.00
216-00201	Soil Retention Blanket (Straw-Coconut) (Biodegradable Class 1)	1,484.000 SY	4.00000	5,936.00	3.70000	5,490.80
217-00020	Herbicide Treatment	10.000 HOUR	150.00000	1,500.00	152.75000	1,527.50
240-00000	Wildlife Biologist	40.000 HOUR	180.00000	7,200.00	138.65000	5,546.00
240-00010	Removal of Nests	10.000 HOUR	200.00000	2,000.00	138.65000	1,386.50
240-00020	Netting	1,700.000 SY	15.00000	25,500.00	6.25000	10,625.00
250-00010	Environmental Health and Safety Management	1.000 L S	15,000.00000	15,000.00	25,000.00000	25,000.00
250-00050	Monitoring Technician	150.000 HOUR	150.00000	22,500.00	99.90000	14,985.00
250-00110	Health and Safety Officer	20.000 HOUR	180.00000	3,600.00	144.25000	2,885.00
250-00120	Material Sampling and Delivery	1.000 EACH	500.00000	500.00	3,500.00000	3,500.00
304-01005	Aggregate Base Course (Class 1)	1,926.000 CY	90.00000	173,340.00	42.95000	82,721.70

Tabulation of Bids

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Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1415A RALPH L. WADSWORTH CONSTRUCTION CO., LLC	
			Unit Price	Amount	Unit Price	Amount
SECTION:	0001		LCC:			
304-06007	Aggregate Base Course (Class 6)	739.000 CY	100.00000	73,900.00	55.05000	40,681.95
304-07005	Aggregate Base Course (Class 7)	827.000 CY	80.00000	66,160.00	78.70000	65,084.90
403-00720	Hot Mix Asphalt (Patching) (Asphalt)	47.310 TON	300.00000	14,193.00	258.00000	12,205.98
403-34701	Hot Mix Asphalt (Grading SX) (75)	7,417.000 TON	120.00000	890,040.00	99.00000	734,283.00
403-36701	Hot Mix Asphalt (Grading ST)(75) With Fiber	3,403.260 TON	80.00000	272,260.80	104.00000	353,939.04
411-03342	Asphalt Cement Performance Grade (PG 64-28)	403.100 TON	600.00000	241,860.00	644.00000	259,596.40
411-03352	Asphalt Cement Performance Grade (PG 58-28)	287.530 TON	650.00000	186,894.50	521.00000	149,803.13
411-10255	Emulsified Asphalt (Slow-Setting)	6,820.000 GAL	4.00000	27,280.00	2.85000	19,437.00
420-00112	Geotextile (Drainage) (Class 1)	1,458.000 SY	7.00000	10,206.00	3.80000	5,540.40
502-00460	Pile Tip	18.000 EACH	250.00000	4,500.00	1,000.00000	18,000.00
502-02012	Static Pile Load Test	2.000 EACH	3,000.00000	6,000.00	15,000.00000	30,000.00
502-11489	Steel Piling (HP 14x89)	404.000 LF	125.00000	50,500.00	150.50000	60,802.00
503-00042	Drilled Shaft (42 Inch)	152.000 LF	750.00000	114,000.00	657.60000	99,955.20
506-00206	Riprap (6 Inch)	14.000 CY	300.00000	4,200.00	494.25000	6,919.50
506-00224	Riprap (24 Inch)	1,528.000 CY	200.00000	305,600.00	127.30000	194,514.40

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Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1415A RALPH L. WADSWORTH CONSTRUCTION CO., LLC	
			Unit Price	Amount	Unit Price	Amount
SECTION: 0001	BID ITEMS					
507-00000	Concrete Slope and Ditch Paving	17.000 CY	2,000.00000	34,000.00	776.10000	13,193.70
515-00120	Waterproofing (Membrane)	1,986.000 SY	30.00000	59,580.00	16.80000	33,364.80
518-03000	Sawing and Sealing Bridge Joint	176.000 LF	30.00000	5,280.00	36.80000	6,476.80
601-03040	Concrete Class D (Bridge)	825.000 CY	1,200.00000	990,000.00	900.00000	742,500.00
601-25730	Precast Concrete Deck Panel (3 Inch)	893.000 SY	200.00000	178,600.00	150.00000	133,950.00
601-40300	Structural Concrete Coating	730.000 SY	25.00000	18,250.00	21.00000	15,330.00
602-00025	Reinforcing Steel (Stainless)	143,532.000 LB	3.50000	502,362.00	4.10000	588,481.20
606-00301	Guardrail Type 3 (6-3 Post Spacing)	1,250.000 LF	50.00000	62,500.00	59.30000	74,125.00
606-01370	Transition Type 3G	4.000 EACH	5,000.00000	20,000.00	6,583.50000	26,334.00
606-02003	End Anchorage (Nonflared)	3.000 EACH	5,000.00000	15,000.00	4,830.10000	14,490.30
606-02005	End Anchorage (Flared)	5.000 EACH	5,500.00000	27,500.00	4,450.20000	22,251.00
606-11035	Bridge Rail Type 10 MASH	812.000 LF	350.00000	284,200.00	364.70000	296,136.40
607-00005	End Post	5.000 EACH	300.00000	1,500.00	364.10000	1,820.50
607-00010	Corner and Line Brace Post	10.000 EACH	500.00000	5,000.00	452.35000	4,523.50
607-00015	End Post (Special)	1.000 EACH	600.00000	600.00	755.80000	755.80

Tabulation of Bids

Contract ID: C22943-COMBO

Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1415A RALPH L. WADSWORTH CONSTRUCTION CO., LLC	
			Unit Price	Amount	Unit Price	Amount
SECTION:	0001	BID ITEMS				
607-00020	Corner and Line Brace Post (Special)	3.000 EACH	700.00000	2,100.00	1,263.30000	3,789.90
607-01010	Fence Barbed Wire with Metal Posts (Special)	615.000 LF	10.00000	6,150.00	7.15000	4,397.25
607-01100	Fence Barbed Wire With Treated Wooden Posts	1,319.000 LF	20.00000	26,380.00	7.75000	10,222.25
607-11525	Fence (Plastic)	1,575.000 LF	4.00000	6,300.00	7.75000	12,206.25
609-40010	Curb Type 4 (Section B)	126.000 LF	25.00000	3,150.00	42.05000	5,298.30
612-00001	Delineator (Type I)	95.000 EACH	25.00000	2,375.00	36.80000	3,496.00
612-00003	Delineator (Type III)	43.000 EACH	30.00000	1,290.00	42.05000	1,808.15
614-00012	Sign Panel (Class II)	9.000 SF	40.00000	360.00	31.55000	283.95
614-01512	Steel Sign Support (2-Inch Round)(Post)	21.000 LF	20.00000	420.00	14.70000	308.70
614-01522	Steel Sign Support (2-Inch Round)(Socket)	2.000 EACH	200.00000	400.00	173.40000	346.80
615-00050	Embankment Protector Type 5	4.000 EACH	3,000.00000	12,000.00	1,739.70000	6,958.80
618-01154	Prestressed Concrete I (CBT54)	2,169.000 LF	410.00000	889,290.00	440.00000	954,360.00
620-00002	Field Office (Class 2)	1.000 EACH	50,000.00000	50,000.00	85,575.00000	85,575.00
620-00012	Field Laboratory (Class 2)	1.000 EACH	30,000.00000	30,000.00	59,795.00000	59,795.00
620-00020	Sanitary Facility	1.000 EACH	4,000.00000	4,000.00	13,175.00000	13,175.00

Tabulation of Bids

Contract ID: C22943-COMBO

Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1415A RALPH L. WADSWORTH CONSTRUCTION CO., LLC	
			Unit Price	Amount	Unit Price	Amount
SECTION: 0001 BID ITEMS						
621-00450	Detour Pavement	5,161.000	SY	70.00000	361,270.00	LCC: 59.25000 305,789.25
621-00500	Temporary Bridge	1.000	L S	750,000.00000	750,000.00	1,750,000.00000
624-20300	Detour Drainage Pipe (Class 0)	68.000	LF	55.00000	3,740.00	183.90000 12,505.20
625-00000	Construction Surveying	1.000	L S	100,000.00000	100,000.00	150,000.00000 150,000.00
625-00001	Construction Surveying (Hourly)	50.000	HOUR	250.00000	12,500.00	204.55000 10,227.50
626-00000	Mobilization	1.000	L S	1,100,000.00000	1,100,000.00	1,200,000.00000
626-01113	Public Information Management (Tier III)	365.000	DAY	65.00000	23,725.00	64.10000 23,396.50
627-00008	Modified Epoxy Pavement Marking	293.000	GAL	125.00000	36,625.00	194.40000 56,959.20
627-00013	Pavement Marking Paint (High Build)	405.000	GAL	50.00000	20,250.00	78.80000 31,914.00
629-01002	Survey Monument (Type 2)	2.000	EACH	700.00000	1,400.00	663.35000 1,326.70
630-00000	Flagging	6,600.000	HOUR	30.00000	198,000.00	28.85000 190,410.00
630-00001	Pilot Car Operation	240.000	HOUR	50.00000	12,000.00	60.35000 14,484.00
630-00007	Traffic Control Inspection	111.000	DAY	300.00000	33,300.00	326.75000 36,269.25
630-00012	Traffic Control Management	240.000	DAY	1,000.00000	240,000.00	727.20000 174,528.00
630-80001	Flashing Beacon (Portable)	8.000	EACH	1,800.00000	14,400.00	78.00000 624.00

Tabulation of Bids

Contract ID: C22943-COMBO

Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1415A RALPH L. WADSWORTH CONSTRUCTION CO., LLC	
			Unit Price	Amount	Unit Price	Amount
SECTION:	0001	BID ITEMS				
630-80337	Barricade (Type 3 M-C) (Temporary)	3.000 EACH	700.00000	2,100.00	61.10000	183.30
630-80341	Construction Traffic Sign (Panel Size A)	104.000 EACH	50.00000	5,200.00	155.50000	16,172.00
630-80342	Construction Traffic Sign (Panel Size B)	25.000 EACH	55.00000	1,375.00	155.50000	3,887.50
630-80343	Construction Traffic Sign (Panel Size C)	2.000 EACH	100.00000	200.00	155.50000	311.00
630-80355	Portable Message Sign Panel	2.000 EACH	6,000.00000	12,000.00	5,553.50000	11,107.00
630-80360	Drum Channelizing Device	100.000 EACH	35.00000	3,500.00	55.55000	5,555.00
630-80372	Concrete Barrier (Temporary) (Furnish and Install)	3,450.000 LF	50.00000	172,500.00	79.15000	273,067.50
630-80380	Traffic Cone	450.000 EACH	10.00000	4,500.00	13.35000	6,007.50
630-80440	Portable Rumble Strips (Temporary)	12.000 EACH	1,500.00000	18,000.00	863.00000	10,356.00
630-80511	Mobile Pavement Marking Zone	1.000 L S	20,000.00000	20,000.00	50,000.00000	50,000.00
630-85006	Impact Attenuator (Sand Filled Plastic Barrel) (Temporary)	4.000 EACH	5,000.00000	20,000.00	8,762.80000	35,051.20
Section Totals:				\$11,033,818.30		\$12,613,255.77
Contract Grand Totals				\$11,033,818.30		\$12,613,255.77

Colorado Department Of Transportation
Low Bid Item Analysis

Contract ID: C22943-COMBO

Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) / Underrun (-)
SECTION:	0001	BID ITEMS						
0005	201-00000 Clearing and Grubbing	1.000	50,000.00000	300,000.00000 LS	50,000.00	300,000.00	600.00%	250,000.00
0010	202-00010 Removal of Tree	20.000	800.00000	400.85000 EACH	16,000.00	8,017.00	50.11%	-7,983.00
0015	202-00027 Removal of Riprap	86.000	25.00000	22.15000 SY	2,150.00	1,904.90	88.60%	-245.10
0020	202-00035 Removal of Pipe	104.000	30.00000	36.80000 LF	3,120.00	3,827.20	122.67%	707.20
0025	202-00090 Removal of Delineator	90.000	10.00000	11.55000 EACH	900.00	1,039.50	115.50%	139.50
0030	202-00220 Removal of Asphalt Mat	3,636.000	12.00000	3.05000 SY	43,632.00	11,089.80	25.42%	-32,542.20
0035	202-00240 Removal of Asphalt Mat (Planning)	6,866.000	6.00000	4.60000 SY	41,196.00	31,583.60	76.67%	-9,612.40
0040	202-00250 Removal of Pavement Marking	19,706.000	1.50000	2.10000 SF	29,559.00	41,382.60	140.00%	11,823.60
0045	202-00400 Removal of Bridge	1.000	500,000.00000	700,000.00000 EACH	500,000.00	700,000.00	140.00%	200,000.00
0050	202-00810 Removal of Ground Sign	4.000	150.00000	157.60000 EACH	600.00	630.40	105.07%	30.40
0055	202-01000 Removal of Fence	1,712.000	2.00000	2.75000 LF	3,424.00	4,708.00	137.50%	1,284.00
0060	202-01035 Removal of Gate	1.000	300.00000	502.00000 EACH	300.00	502.00	167.33%	202.00

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Low Bid Item Analysis

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Contract ID: C22943-COMBO

Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)	
SECTION: 0001		BID ITEMS							
0065	202-01130 Removal of Guardrail Type 3	407.000	10.00000	7.55000 LF	4,070.00	3,072.85	75.50%	-997.15	
0070	202-01300 Removal of End Anchorage	8.000	500.00000	382.25000 EACH	4,000.00	3,058.00	76.45%	-942.00	
0075	203-00060 Embankment Material (Complete In Place)	30,939.00C	30.00000	38.90000 CY	928,170.00	1,203,527.10	129.67%	275,357.10	
0080	203-01500 Blading	60.000	180.00000	218.30000 HOUR	10,800.00	13,098.00	121.28%	2,298.00	
0085	203-01510 Backhoe	20.000	190.00000	238.10000 HOUR	3,800.00	4,762.00	125.32%	962.00	
0090	203-01550 Dozing	20.000	200.00000	225.35000 HOUR	4,000.00	4,507.00	112.68%	507.00	
0095	203-01555 Dozing (Landscaping)	10.000	200.00000	225.35000 HOUR	2,000.00	2,253.50	112.68%	253.50	
0100	203-01594 Combination Loader	30.000	200.00000	266.90000 HOUR	6,000.00	8,007.00	133.45%	2,007.00	
0105	203-01597 Potholing	30.000	400.00000	578.55000 HOUR	12,000.00	17,356.50	144.64%	5,356.50	
0110	203-02330 Laborer	60.000	60.00000	37.30000 HOUR	3,600.00	2,238.00	62.17%	-1,362.00	
0115	206-00000 Structure Excavation	180.000	80.00000	28.80000 CY	14,400.00	5,184.00	36.00%	-9,216.00	
0120	206-00100 Structure Backfill (Class 1)	500.000	100.00000	82.40000 CY	50,000.00	41,200.00	82.40%	-8,800.00	

Colorado Department Of Transportation
Low Bid Item Analysis

Contract ID: C22943-COMBO

Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) / Underrun (-)
SECTION: 0001 BID ITEMS								
0125	206-00200 Structure Backfill (Class 2)	60.000	50.00000	69.35000 CY	3,000.00	4,161.00	138.70%	1,161.00
0130	206-00360 Mechanical Reinforcement of Soil	500.000	35.00000	28.10000 CY	17,500.00	14,050.00	80.29%	-3,450.00
0135	207-00700 Topsoil (Onsite)	2,122.000	30.00000	14.40000 CY	63,660.00	30,556.80	48.00%	-33,103.20
0140	208-00002 Erosion Log Type 1 (12 Inch)	8,300.000	7.00000	4.50000 LF	58,100.00	37,350.00	64.29%	-20,750.00
0145	208-00013 Erosion Log Type 1 (20 Inch)	350.000	8.00000	6.75000 LF	2,800.00	2,362.50	84.38%	-437.50
0150	208-00035 Aggregate Bag	200.000	7.00000	11.45000 LF	1,400.00	2,290.00	163.57%	890.00
0155	208-00046 Pre-fabricated Concrete Washout Structure (Type 1)	2.000	3,000.00000	4,438.80000 EACH	6,000.00	8,877.60	147.96%	2,877.60
0160	208-00070 Vehicle Tracking Pad	2.000	4,000.00000	2,774.30000 EACH	8,000.00	5,548.60	69.36%	-2,451.40
0165	208-00103 Removal and Disposal of Sediment (Labor)	120.000	60.00000	48.85000 HOUR	7,200.00	5,862.00	81.42%	-1,338.00
0170	208-00105 Removal and Disposal of Sediment (Equipment)	40.000	135.00000	88.75000 HOUR	5,400.00	3,550.00	65.74%	-1,850.00
0175	208-00106 Sweeping (Sediment Removal)	90.000	170.00000	332.90000 HOUR	15,300.00	29,961.00	195.82%	14,661.00
0180	208-00107 Removal of Trash	50.000	150.00000	55.50000 HOUR	7,500.00	2,775.00	37.00%	-4,725.00

Colorado Department Of Transportation
Low Bid Item Analysis

Contract ID: C22943-COMBO

Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) / Underrun (-)
SECTION: 0001 BID ITEMS								
0185	208-00207 Erosion Control Management	100.000	300.00000	110.95000 DAY	30,000.00	11,095.00	36.98%	-18,905.00
0190	208-00400 Water Control	1.000	100,000.00000	300,000.00000 L S	100,000.00	300,000.00	300.00%	200,000.00
0195	210-01011 Reset Gate	1.000	700.00000	827.50000 EACH	700.00	827.50	118.21%	127.50
0200	212-00009 Seeding (Temporary)	1.300	2,000.00000	682.35000 ACRE	2,600.00	887.06	34.12%	-1,712.94
0205	212-00700 Organic Fertilizer	1,227.000	2.00000	1.40000 LB	2,454.00	1,717.80	70.00%	-736.20
0210	212-00702 Biotic Soil Amendments (Hydraulically Applied)	1,050.000	1.50000	1.40000 LB	1,575.00	1,470.00	93.33%	-105.00
0215	212-00703 Humate	818.000	2.00000	1.10000 LB	1,636.00	899.80	55.00%	-736.20
0220	212-00706 Seeding (Native) Drill	3.800	2,000.00000	901.25000 ACRE	7,600.00	3,424.75	45.06%	-4,175.25
0225	212-00707 Seeding (Native) Hydraulic	0.300	2,000.00000	1,653.50000 ACRE	600.00	496.05	82.68%	-103.95
0230	213-00004 Mulching (Weed Free Straw)	3.800	1,500.00000	1,234.40000 ACRE	5,700.00	4,690.72	82.29%	-1,009.28
0235	213-00011 Mulching (Hydraulic)	1.300	2,500.00000	1,613.30000 ACRE	3,250.00	2,097.29	64.53%	-1,152.71
0240	213-00061 Mulch Tackifier	760.000	3.00000	3.75000 LB	2,280.00	2,850.00	125.00%	570.00

Colorado Department Of Transportation
Low Bid Item Analysis

Contract ID: C22943-COMBO

Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) / Underrun (-)
SECTION: 0001 BID ITEMS								
0245	214-00220 Deciduous Tree (2 Inch Caliper)	20.000	800.00000	609.50000 EACH	16,000.00	12,190.00	76.19%	-3,810.00
0250	216-00201 Soil Retention Blanket (Straw-Coconut) (Biodegradable Class 1)	1,484.000	4.00000	3.70000 SY	5,936.00	5,490.80	92.50%	-445.20
0255	217-00020 Herbicide Treatment	10.000	150.00000	152.75000 HOUR	1,500.00	1,527.50	101.83%	27.50
0260	240-00000 Wildlife Biologist	40.000	180.00000	138.65000 HOUR	7,200.00	5,546.00	77.03%	-1,654.00
0265	240-00010 Removal of Nests	10.000	200.00000	138.65000 HOUR	2,000.00	1,386.50	69.33%	-613.50
0270	240-00020 Netting	1,700.000	15.00000	6.25000 SY	25,500.00	10,625.00	41.67%	-14,875.00
0275	250-00010 Environmental Health and Safety Management	1.000	15,000.00000	25,000.00000 L S	15,000.00	25,000.00	166.67%	10,000.00
0280	250-00050 Monitoring Technician	150.000	150.00000	99.90000 HOUR	22,500.00	14,985.00	66.60%	-7,515.00
0285	250-00110 Health and Safety Officer	20.000	180.00000	144.25000 HOUR	3,600.00	2,885.00	80.14%	-715.00
0290	250-00120 Material Sampling and Delivery	1.000	500.00000	3,500.00000 EACH	500.00	3,500.00	700.00%	3,000.00
0295	304-01005 Aggregate Base Course (Class 1)	1,926.000	90.00000	42.95000 CY	173,340.00	82,721.70	47.72%	-90,618.30
0300	304-06007 Aggregate Base Course (Class 6)	739.000	100.00000	55.05000 CY	73,900.00	40,681.95	55.05%	-33,218.05

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Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
SECTION: 0001 BID ITEMS								
0305	304-07005 Aggregate Base Course (Class 7)	827.000	80.00000	78.70000 CY	66,160.00	65,084.90	98.38%	-1,075.10
0310	403-00720 Hot Mix Asphalt (Patching) (Asphalt)	47.310	300.00000	258.00000 TON	14,193.00	12,205.98	86.00%	-1,987.02
0315	403-34701 Hot Mix Asphalt (Grading SX) (75)	7,417.000	120.00000	99.00000 TON	890,040.00	734,283.00	82.50%	-155,757.00
0320	403-36701 Hot Mix Asphalt (Grading ST)(75) With Fiber	3,403.260	80.00000	104.00000 TON	272,260.80	353,939.04	130.00%	81,678.24
0325	411-03342 Asphalt Cement Performance Grade (PG 64-28)	403.100	600.00000	644.00000 TON	241,860.00	259,596.40	107.33%	17,736.40
0330	411-03352 Asphalt Cement Performance Grade (PG 58-28)	287.530	650.00000	521.00000 TON	186,894.50	149,803.13	80.15%	-37,091.37
0335	411-10255 Emulsified Asphalt (Slow-Setting)	6,820.000	4.00000	2.85000 GAL	27,280.00	19,437.00	71.25%	-7,843.00
0340	420-00112 Geotextile (Drainage) (Class 1)	1,458.000	7.00000	3.80000 SY	10,206.00	5,540.40	54.29%	-4,665.60
0345	502-00460 Pile Tip	18.000	250.00000	1,000.00000 EACH	4,500.00	18,000.00	400.00%	13,500.00
0350	502-02012 Static Pile Load Test	2.000	3,000.00000	15,000.00000 EACH	6,000.00	30,000.00	500.00%	24,000.00
0355	502-11489 Steel Piling (HP 14x89)	404.000	125.00000	150.50000 LF	50,500.00	60,802.00	120.40%	10,302.00
0360	503-00042 Drilled Shaft (42 Inch)	152.000	750.00000	657.60000 LF	114,000.00	99,955.20	87.68%	-14,044.80

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Low Bid Item Analysis

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Contract ID: C22943-COMBO

Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) / Underrun (-)
SECTION: 0001 BID ITEMS								
0365	506-00206 Riprap (6 Inch)	14.000	300.00000	494.25000 CY	4,200.00	6,919.50	164.75%	2,719.50
0370	506-00224 Riprap (24 Inch)	1,528.000	200.00000	127.30000 CY	305,600.00	194,514.40	63.65%	-111,085.60
0375	507-00000 Concrete Slope and Ditch Paving	17.000	2,000.00000	776.10000 CY	34,000.00	13,193.70	38.81%	-20,806.30
0380	515-00120 Waterproofing (Membrane)	1,986.000	30.00000	16.80000 SY	59,580.00	33,364.80	56.00%	-26,215.20
0385	518-03000 Sawing and Sealing Bridge Joint	176.000	30.00000	36.80000 LF	5,280.00	6,476.80	122.67%	1,196.80
0390	601-03040 Concrete Class D (Bridge)	825.000	1,200.00000	900.00000 CY	990,000.00	742,500.00	75.00%	-247,500.00
0395	601-25730 Precast Concrete Deck Panel (3 Inch)	893.000	200.00000	150.00000 SY	178,600.00	133,950.00	75.00%	-44,650.00
0400	601-40300 Structural Concrete Coating	730.000	25.00000	21.00000 SY	18,250.00	15,330.00	84.00%	-2,920.00
0405	602-00025 Reinforcing Steel (Stainless)	143,532.00	3.50000	4.10000 LB	502,362.00	588,481.20	117.14%	86,119.20
0410	606-00301 Guardrail Type 3 (6-3 Post Spacing)	1,250.000	50.00000	59.30000 LF	62,500.00	74,125.00	118.60%	11,625.00
0415	606-01370 Transition Type 3G	4.000	5,000.00000	6,583.50000 EACH	20,000.00	26,334.00	131.67%	6,334.00
0420	606-02003 End Anchorage (Nonflared)	3.000	5,000.00000	4,830.10000 EACH	15,000.00	14,490.30	96.60%	-509.70

Colorado Department Of Transportation
Low Bid Item Analysis

Contract ID: C22943-COMBO

Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
SECTION: 0001 BID ITEMS								
0425	606-02005 End Anchorage (Flared)	5.000	5,500.00000	4,450.20000 EACH	27,500.00	22,251.00	80.91%	-5,249.00
0430	606-11035 Bridge Rail Type 10 MASH	812.000	350.00000	364.70000 LF	284,200.00	296,136.40	104.20%	11,936.40
0435	607-00005 End Post	5.000	300.00000	364.10000 EACH	1,500.00	1,820.50	121.37%	320.50
0440	607-00010 Corner and Line Brace Post	10.000	500.00000	452.35000 EACH	5,000.00	4,523.50	90.47%	-476.50
0445	607-00015 End Post (Special)	1.000	600.00000	755.80000 EACH	600.00	755.80	125.97%	155.80
0450	607-00020 Corner and Line Brace Post (Special)	3.000	700.00000	1,263.30000 EACH	2,100.00	3,789.90	180.47%	1,689.90
0455	607-01010 Fence Barbed Wire with Metal Posts (Special)	615.000	10.00000	7.15000 LF	6,150.00	4,397.25	71.50%	-1,752.75
0460	607-01100 Fence Barbed Wire With Treated Wooden Posts	1,319.000	20.00000	7.75000 LF	26,380.00	10,222.25	38.75%	-16,157.75
0465	607-11525 Fence (Plastic)	1,575.000	4.00000	7.75000 LF	6,300.00	12,206.25	193.75%	5,906.25
0470	609-40010 Curb Type 4 (Section B)	126.000	25.00000	42.05000 LF	3,150.00	5,298.30	168.20%	2,148.30
0475	612-00001 Delineator (Type I)	95.000	25.00000	36.80000 EACH	2,375.00	3,496.00	147.20%	1,121.00
0480	612-00003 Delineator (Type III)	43.000	30.00000	42.05000 EACH	1,290.00	1,808.15	140.17%	518.15

Colorado Department Of Transportation
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Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
SECTION: 0001 BID ITEMS								
0485	614-00012 Sign Panel (Class II)	9.000	40.00000	31.55000 SF	360.00	283.95	78.88%	-76.05
0490	614-01512 Steel Sign Support (2-Inch Round)(Post)	21.000	20.00000	14.70000 LF	420.00	308.70	73.50%	-111.30
0495	614-01522 Steel Sign Support (2-Inch Round)(Socket)	2.000	200.00000	173.40000 EACH	400.00	346.80	86.70%	-53.20
0500	615-00050 Embankment Protector Type 5	4.000	3,000.00000	1,739.70000 EACH	12,000.00	6,958.80	57.99%	-5,041.20
0505	618-01154 Prestressed Concrete I (CBT54)	2,169.000	410.00000	440.00000 LF	889,290.00	954,360.00	107.32%	65,070.00
0510	620-00002 Field Office (Class 2)	1.000	50,000.00000	85,575.00000 EACH	50,000.00	85,575.00	171.15%	35,575.00
0515	620-00012 Field Laboratory (Class 2)	1.000	30,000.00000	59,795.00000 EACH	30,000.00	59,795.00	199.32%	29,795.00
0520	620-00020 Sanitary Facility	1.000	4,000.00000	13,175.00000 EACH	4,000.00	13,175.00	329.38%	9,175.00
0525	621-00450 Detour Pavement	5,161.000	70.00000	59.25000 SY	361,270.00	305,789.25	84.64%	-55,480.75
0530	621-00500 Temporary Bridge	1.000	750,000.00000	1,750,000.00000 LS	750,000.00	1,750,000.00	233.33%	1,000,000.00
0535	624-20300 Detour Drainage Pipe (Class 0)	68.000	55.00000	183.90000 LF	3,740.00	12,505.20	334.36%	8,765.20
0540	625-00000 Construction Surveying	1.000	100,000.00000	150,000.00000 LS	100,000.00	150,000.00	150.00%	50,000.00

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Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) / Underrun (-)
SECTION:	0001	BID ITEMS						
0545	625-00001 Construction Surveying (Hourly)	50.000	250.00000	204.55000 HOUR	12,500.00	10,227.50	81.82%	-2,272.50
0550	626-00000 Mobilization	1.000	1,100,000.00000	1,200,000.00000 L S	1,100,000.00	1,200,000.00	109.09%	100,000.00
0555	626-01113 Public Information Management (Tier III)	365.000	65.00000	64.10000 DAY	23,725.00	23,396.50	98.62%	-328.50
0560	627-00008 Modified Epoxy Pavement Marking	293.000	125.00000	194.40000 GAL	36,625.00	56,959.20	155.52%	20,334.20
0565	627-00013 Pavement Marking Paint (High Build)	405.000	50.00000	78.80000 GAL	20,250.00	31,914.00	157.60%	11,664.00
0570	629-01002 Survey Monument (Type 2)	2.000	700.00000	663.35000 EACH	1,400.00	1,326.70	94.76%	-73.30
0575	630-00000 Flagging	6,600.000	30.00000	28.85000 HOUR	198,000.00	190,410.00	96.17%	-7,590.00
0580	630-00001 Pilot Car Operation	240.000	50.00000	60.35000 HOUR	12,000.00	14,484.00	120.70%	2,484.00
0585	630-00007 Traffic Control Inspection	111.000	300.00000	326.75000 DAY	33,300.00	36,269.25	108.92%	2,969.25
0590	630-00012 Traffic Control Management	240.000	1,000.00000	727.20000 DAY	240,000.00	174,528.00	72.72%	-65,472.00
0595	630-80001 Flashing Beacon (Portable)	8.000	1,800.00000	78.00000 EACH	14,400.00	624.00	4.33%	-13,776.00
0600	630-80337 Barricade (Type 3 M-C) (Temporary)	3.000	700.00000	61.10000 EACH	2,100.00	183.30	8.73%	-1,916.70

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Low Bid Item Analysis

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Contract ID: C22943-COMBO

Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) / Underrun (-)
SECTION: 0001 BID ITEMS								
0605	630-80341 Construction Traffic Sign (Panel Size A)	104.000	50.00000	155.50000 EACH	5,200.00	16,172.00	311.00%	10,972.00
0610	630-80342 Construction Traffic Sign (Panel Size B)	25.000	55.00000	155.50000 EACH	1,375.00	3,887.50	282.73%	2,512.50
0615	630-80343 Construction Traffic Sign (Panel Size C)	2.000	100.00000	155.50000 EACH	200.00	311.00	155.50%	111.00
0620	630-80355 Portable Message Sign Panel	2.000	6,000.00000	5,553.50000 EACH	12,000.00	11,107.00	92.56%	-893.00
0625	630-80360 Drum Channelizing Device	100.000	35.00000	55.55000 EACH	3,500.00	5,555.00	158.71%	2,055.00
0630	630-80372 Concrete Barrier (Temporary) (Furnish and Install)	3,450.000	50.00000	79.15000 LF	172,500.00	273,067.50	158.30%	100,567.50
0635	630-80380 Traffic Cone	450.000	10.00000	13.35000 EACH	4,500.00	6,007.50	133.50%	1,507.50
0640	630-80440 Portable Rumble Strips (Temporary)	12.000	1,500.00000	863.00000 EACH	18,000.00	10,356.00	57.53%	-7,644.00
0645	630-80511 Mobile Pavement Marking Zone	1.000	20,000.00000	50,000.00000 L S	20,000.00	50,000.00	250.00%	30,000.00
0650	630-85006 Impact Attenuator (Sand Filled Plastic Barrel) (Temporary)	4.000	5,000.00000	8,762.80000 EACH	20,000.00	35,051.20	175.26%	15,051.20
Section 0001 Subtotal					\$11,033,818.30	\$12,613,255.77	114.31%	\$1,579,437.47

Contract Total for Calculated Low Bidders Bid Items

\$11,033,818.30 \$12,613,255.77 114.31% \$1,579,437.47