





**COLORADO**  
**Department of Transportation**  
Office of the Chief Engineer

TO: SHOSHANA M. LEW, EXECUTIVE DIRECTOR  
FROM: MARK STRAUB ACTING FOR MARKOS ATAMO, PE, CES BRANCH MANAGER  
CC: STEPHEN HARELSON, PE, CHIEF ENGINEER   
STEPHEN BOKROS, PE, CES UNIT MANAGER   
DATE: 03/4/2021  
SUBJECT: AWARD TO LOW RESPONSIVE BIDDER C.R.S. 43-1-113 (16)  
PROJECT: C 0821-109 (22476) REGION 3 SH 82/133 GARFIELD COUNTY SIGNAL 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 project C 0821-109 (22476) to the low bidder Casper Electric, Inc.

**Project Description:** This Region 3 project is located in the Garfield County for the replacement of traffic signals. The project was solicited under a design bid build (low bid) project delivery method where only two bids were received with Casper Electric, Inc. being the lowest responsive bidder.

**Financial Impact:** Casper Electric, Inc. low bid proposal totaled \$2,429,999.84 and the second low bid from Sturgeon Electric Company, Inc. totaled \$2,555,000.00 compared to the CDOT engineer's estimate of \$2,001,445.00. The project risks rejection by Statute since there were only two bidders and their proposals were 121.41% and 127.66% of the engineer's estimate. Region 3 has verified they have funding available for the award of the project to Casper Electric, Inc.

**Cost Analysis:** An analysis of the bid schedule revealed that the bid line items identified below resulted in the overall bid from Casper Electric, Inc. 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
MOBILIZATION	1	LS	\$251,482.00	\$410,979.29	\$159,497.29	8.0%
REMOVAL OF TRAFFIC SIGNAL EQ.	1	LS	\$20,000.00	\$65,000.00	\$45,000.00	2.25%
TRAFFICE SIGNAL CONTROL CABINET	4	EA	\$25,000.00	\$33,000.00	\$32,000.00	1.60%

The engineer's estimate for the above bid items was based on historical data from similar projects with comparable quantities. In verifying Casper Electric, Inc.'s bid offer, they mentioned that their main office is in Wyoming along with all out of state travel expenses contributed to their overall higher mobilization bid pricing. The Removal of traffic signal equipment and installing traffic signal control cabinet bid pricing was higher than anticipated due to work being performed at night which results in a higher cost than during normal daytime hour work. Although the overall low bid from Casper Electric, Inc. is above the engineer's estimate, it's considered to be reasonable and is within a close competitive bid range from the second low bidder.

The signal upgrades will improve this intersection and roadway safety. It is imperative that this project be awarded as soon as possible. Re-advertisement would risk delaying these important safety improvements.

Based on the cost analysis, EEMA and Region 3 consider Casper Electric, overall proposed bid pricing to be fair and reasonable.

**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 Casper Electric, Inc.

I authorize award Mark Straub Date 03/03/21  
Mark Straub (Mar 3, 2021 14:10 MST)

Mark Straub acting for Markos Atamo, PE, CES Branch Manager

I authorize award of the referenced project

I do not authorize award of the referenced project

Shoshana M. Lew Date 03/16/21  
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

Glenwood Springs Resident Engineer  
202 Centennial Drive  
Glenwood Springs, CO 81601

**MEMORANDUM**

**TO:** RB Simmons, Construction Contracts Manager  
**FROM:** Andrew Knapp, Glenwood Springs Resident Engineer  
**DATE:** March 1, 2021  
**SUBJECT:** 22476 Project Award to Low Responsive Bidder, C.R.S. 43-1-113 (16)

This memorandum provides the Region 3 project team's request to award project C 0821-109 (22476) as well as the justification on why it is in the best interest of the State of Colorado to award the project. The primary element of this project is the replacement of traffic signals at four intersections on the state highway system, along with associated electrical and curb ramp upgrades to bring the intersection facilities up to date with current standards.

The four intersections included in this project were identified by the signal asset manager as having out of date traffic signal facilities in need of replacement. The age of the traffic signal facilities has led to increased maintenance time and cost and challenges procuring replacement parts. These problems are only expected to get more challenging as the signal facility continues to age. One intersection signal pole planned to be replaced on this project has been hit by a vehicle on multiple occasions requiring emergency replacement with stockpiled salvage poles from a region maintenance yard.

The four intersections were packaged in one PS&E bid package due to their proximity, concurrent need for replacement, and economy of scale. To accomplish these signal replacements associated curb ramp facilities are also required to be reconstructed to meet current PROWAG standards.

To complete the identified scope of work temporary and permanent construction easements were acquired. These easements allow the required curb ramp work to be constructed, staging for directional drilling equipment, relocation of signal poles to more advantageous positions, and improvements be maintained in to the future.

The project is challenging due to working time restrictions mandating the Contractor avoid lane closures during daylight hours, consistent with the Region lane closure strategy. Additional project challenges include constrained sites with minimal staging areas due to their urban location and difficult ground conditions for directional boring of electrical conduits due to the rocky geology of the area.

The possibility of removing one or more intersection from the package was discussed at the region level. All intersections eventually need their signal facilities replaced and while removing one or more intersection from this project would provide a reduced cost for this specific project the overall costs to the State would be greater due to reduced economies of scale, increased project administration overhead, and increased Contractor mobilization requirements.

Although the bids were greater than anticipated the project was competitively bid, with the two bidders bidding within 5.1% of each other. Review of the bid tabs has not identified any items with high bid prices



with a high risk of overrun. Lower pricing is not anticipated if the project were to be re-bid due to reduced time frames for long lead time procurement items and a greater chance for fewer available contractors.

The signal asset manager has reviewed the bid tabulations, project budget, and asset pool budget. They are in concurrence with the intent to award the full project scope and they have identified the required additional funding to award the project.

The RTD has been informed of the bid results and concurs with moving forward to award the project.

Please contact me at (970) 456-3960 if you have any questions or would like to discuss this request.





3/1/2021

CE-CDOT-001

Mr. George Paul Demos  
Colorado Department of Transportation  
Engineering Estimates & Market Analysis  
2829 W. Howard Place, 3<sup>rd</sup> Floor  
Denver, CO 80204  
(307) 757-9874

**RE: SA 22476 C-0821-109 SH82/SH133 Garfield County Signal Replacement**

The purpose of this letter is to provide justification for the following cost items in the above-mentioned bid submitted February 25, 2021.

Item 626-00000 Mobilization – This item includes costs for the following, Casper Electric’s mobilization costs including but not limited to mileage, travel time, hotel costs, yard and office establishment costs, required training/certification costs, subcontractor mobilization, contract bond, subcontract bond costs, supervision costs, and night work premium costs. This is all based on estimated project duration and quoted rates from subcontractors or suppliers. Costs in Glenwood Springs are significantly higher than some other areas of Colorado.

Item 202-00828 Removal of Traffic Signal Equipment – This item includes labor, equipment, outside rented crane costs, disposal costs, and backfill costs after foundation demolition for the four intersections of traffic signals. It was anticipated that some of this work would occur at night, and therefore costs are higher.

Item 614-72855 Traffic Signal Control Cabinet – This item includes labor, equipment, and materials for the installation and wiring of the traffic signal cabinet, base, required rock, ground rods, and time for taking the cabinet to the CDOT facility for testing & programming, and picking it up from the same facility to install it in the field. Costs are increased to comply with the IMSA requirements and since this work will likely happen at night.

Please contact me should you have any questions.

Ryan D Waterbury

Digitally signed by Ryan D Waterbury  
DN: C=US, E=ryan@casperelectric.biz,  
O=Casper Electric, Inc., OU=Project  
Manager, CN=Ryan D Waterbury  
Date: 2021.03.01 08:35:13-0700'

Ryan Waterbury, P.E.  
Project Manager/Civil Engineer  
Casper Electric, Inc.

Cc: Ben Hansuld, P.E. – Vice President

Colorado Department Of Transportation

Printed On: 02/25/2021

Low Bid Summary

Page 1 of 1

Letting Date: February 25, 2021

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Call Order	Contract ID	Project(s)	# of Bids	Low Bidder	Estimated Cost	Corrected Bid	Percent of Estimate	Overrun (+) Underrun (-)
006	C22476	C0821-109	2	Casper Electric, Inc.	\$2,001,445.00	\$2,429,999.84	121.41%	\$428,554.84
Letting Totals			2		\$2,001,445.00	\$2,429,999.84	121.41%	\$428,554.84

Vendor Ranking

Contract ID: C22476

Contract Description:

SH 82/133 GARFIELD COUNTY SIGNAL REPLACEMENT Project will replace signals and reconstruct ramps to meet ADA requirements at the following four intersections in Garfield County: CO 133 and Meadowood Dr, CO 133 and Village Rd, CO 82 and 11th St, and CO 82 and 14th St.

Rank	Vendor ID	Vendor Name	Total Bid	Percent Of Low Bid	Percent Of Estimate
0	-EST-	Engineer's Estimate	\$2,001,445.00	82.36%	100.00%
1	1655	Casper Electric, Inc.	\$2,429,999.84	100.00%	121.41%
2	720A	STURGEON ELECTRIC COMPANY, INC.	\$2,555,000.00	105.14%	127.66%

Tabulation of Bids

Contract ID: C22476

Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1655 Casper Electric, Inc.		(2) 720A STURGEON ELECTRIC COMPANY, INC	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
<b>SECTION:</b>	0001	BID ITEMS						
						<b>LCC:</b>		
201-00000	Clearing and Grubbing	1.000 L S	10,000.00000	10,000.00	7,500.00000	7,500.00	4,900.00000	4,900.00
202-00047	Removal of Electrical Equipment	1.000 L S	200.00000	200.00	5,000.00000	5,000.00	18,000.00000	18,000.00
202-00200	Removal of Sidewalk	675.000 SY	30.00000	20,250.00	52.00000	35,100.00	17.00000	11,475.00
202-00203	Removal of Curb and Gutter	412.000 LF	25.00000	10,300.00	50.00000	20,600.00	25.00000	10,300.00
202-00210	Removal of Concrete Pavement	24.000 SY	25.00000	600.00	150.00000	3,600.00	61.00000	1,464.00
202-00705	Removal of Light Standard Foundation	2.000 EACH	1,000.00000	2,000.00	1,275.00000	2,550.00	800.00000	1,600.00
202-00828	Removal of Traffic Signal Equipment	1.000 L S	20,000.00000	20,000.00	65,000.00000	65,000.00	40,707.00000	40,707.00
203-01597	Potholing	100.000 HOUR	350.00000	35,000.00	380.00000	38,000.00	450.00000	45,000.00
208-00035	Aggregate Bag	200.000 LF	20.00000	4,000.00	6.60000	1,320.00	10.00000	2,000.00
208-00046	Pre-fabricated Concrete Washout Structure (Type 1)	2.000 EACH	2,000.00000	4,000.00	3,400.00000	6,800.00	830.00000	1,660.00
208-00051	Storm Drain Inlet Protection (Type I)	23.000 LF	15.00000	345.00	7.40000	170.20	20.00000	460.00
208-00054	Storm Drain Inlet Protection (Type II)	1.000 EACH	350.00000	350.00	245.00000	245.00	475.00000	475.00
208-00103	Removal and Disposal of Sediment (Labor)	40.000 HOUR	60.00000	2,400.00	90.00000	3,600.00	95.00000	3,800.00
208-00105	Removal and Disposal of Sediment (Equipment)	40.000 HOUR	180.00000	7,200.00	200.00000	8,000.00	175.00000	7,000.00
208-00106	Sweeping (Sediment Removal)	40.000 HOUR	75.00000	3,000.00	200.00000	8,000.00	300.00000	12,000.00



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			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
<b>SECTION:</b>	0001	BID ITEMS						
						<b>LCC:</b>		
210-00300	Reset Brick Pavers	42.000 SY	125.00000	5,250.00	150.00000	6,300.00	110.00000	4,620.00
210-00479	Reset Radio Communication Antenna	2.000 EACH	500.00000	1,000.00	2,100.00000	4,200.00	1,500.00000	3,000.00
210-00760	Reset Luminaire	11.000 EACH	300.00000	3,300.00	300.00000	3,300.00	525.00000	5,775.00
210-00860	Reset Pedestrian Push Button	1.000 EACH	200.00000	200.00	375.00000	375.00	350.00000	350.00
210-00861	Reset Wiring	1.000 L S	2,000.00000	2,000.00	2,000.00000	2,000.00	6,675.00000	6,675.00
210-00867	Reset Fire Preemption Unit	2.000 EACH	500.00000	1,000.00	2,965.00000	5,930.00	1,200.00000	2,400.00
210-00870	Reset Coordination Unit	2.000 EACH	1,000.00000	2,000.00	1,000.00000	2,000.00	1,200.00000	2,400.00
210-00882	Reset Traffic Signal Vehicle Detector	4.000 EACH	1,200.00000	4,800.00	1,900.00000	7,600.00	1,500.00000	6,000.00
210-04050	Adjust Valve Box	1.000 EACH	500.00000	500.00	1,150.00000	1,150.00	550.00000	550.00
210-04051	Adjust Valve Box (Special)	1.000 EACH	500.00000	500.00	1,250.00000	1,250.00	575.00000	575.00
212-00700	Organic Fertilizer	30.000 LB	6.00000	180.00	2.75000	82.50	14.00000	420.00
212-00701	Compost (Mechanically Applied)	7.000 CY	20.00000	140.00	285.00000	1,995.00	300.00000	2,100.00
212-00703	Humate	20.000 LB	20.00000	400.00	3.50000	70.00	15.00000	300.00
212-00704	Mycorrhizae	2.000 LB	40.00000	80.00	39.00000	78.00	95.00000	190.00
212-00705	Elemental Sulfur	2.000 LB	40.00000	80.00	32.00000	64.00	90.00000	180.00
212-00706	Seeding (Native) Drill	0.100 ACRE	3,000.00000	300.00	2,416.00000	241.60	3,550.00000	355.00

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			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
<b>SECTION:</b>	0001	BID ITEMS						
						<b>LCC:</b>		
213-00012	Spray-on Mulch Blanket	0.100 ACRE	6,000.00000	600.00	18,577.00000	1,857.70	20,000.00000	2,000.00
403-00721	Hot Mix Asphalt (Patching) (Asphalt)	151.000 SY	70.00000	10,570.00	67.60000	10,207.60	205.00000	30,955.00
412-00600	Concrete Pavement (6 Inch)	20.000 SY	120.00000	2,400.00	290.00000	5,800.00	135.00000	2,700.00
503-00018	Drilled Shaft (18 Inch)	10.000 LF	300.00000	3,000.00	535.00000	5,350.00	565.00000	5,650.00
503-00036	Drilled Shaft (36 Inch)	266.000 LF	800.00000	212,800.00	835.00000	222,110.00	740.00000	196,840.00
503-00048	Drilled Shaft (48 Inch)	21.000 LF	900.00000	18,900.00	1,175.00000	24,675.00	795.00000	16,695.00
608-00000	Concrete Sidewalk	170.000 SY	70.00000	11,900.00	130.00000	22,100.00	100.00000	17,000.00
608-00010	Concrete Curb Ramp	481.000 SY	160.00000	76,960.00	136.00000	65,416.00	80.00000	38,480.00
609-21020	Curb and Gutter Type 2 (Section II-B)	269.000 LF	26.00000	6,994.00	82.00000	22,058.00	35.00000	9,415.00
613-00200	2 Inch Electrical Conduit	877.000 LF	15.00000	13,155.00	28.00000	24,556.00	24.00000	21,048.00
613-00206	2 Inch Electrical Conduit (Bored)	1,439.000 LF	25.00000	35,975.00	35.35000	50,868.65	92.00000	132,388.00
613-00300	3 Inch Electrical Conduit	361.000 LF	20.00000	7,220.00	38.00000	13,718.00	25.00000	9,025.00
613-00306	3 Inch Electrical Conduit (Bored)	4,940.000 LF	40.00000	197,600.00	40.00000	197,600.00	97.00000	479,180.00
613-07000	Pull Box (Special)	19.000 EACH	1,000.00000	19,000.00	650.00000	12,350.00	1,250.00000	23,750.00
613-07002	Type Two Pull Box	5.000 EACH	800.00000	4,000.00	1,615.00000	8,075.00	1,225.00000	6,125.00
613-07004	Type Four Pull Box	12.000 EACH	1,800.00000	21,600.00	2,025.00000	24,300.00	1,950.00000	23,400.00

Tabulation of Bids

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			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
<b>SECTION:</b>	0001	BID ITEMS				<b>LCC:</b>		
613-07005	Type Five Pull Box	4.000 EACH	2,000.00000	8,000.00	2,500.00000	10,000.00	2,425.00000	9,700.00
613-10000	Wiring	1.000 L S	50,000.00000	50,000.00	63,250.00000	63,250.00	51,500.00000	51,500.00
613-20200	Luminaire (Install Only)	4.000 EACH	300.00000	1,200.00	300.00000	1,200.00	305.00000	1,220.00
613-80130	Service Meter Cabinet	3.000 EACH	5,000.00000	15,000.00	9,245.00000	27,735.00	7,325.00000	21,975.00
614-00011	Sign Panel (Class I)	138.000 SF	25.00000	3,450.00	62.00000	8,556.00	40.00000	5,520.00
614-00026	Sign Panel (Class I) (Install Only)	15.000 EACH	300.00000	4,500.00	225.00000	3,375.00	30.00000	450.00
614-70150	Pedestrian Signal Face (16) (Countdown)	26.000 EACH	600.00000	15,600.00	650.00000	16,900.00	775.00000	20,150.00
614-70336	Traffic Signal Face (12-12-12)	45.000 EACH	900.00000	40,500.00	940.00000	42,300.00	1,325.00000	59,625.00
614-70560	Traffic Signal Face (12-12-12-12-12)	15.000 EACH	1,400.00000	21,000.00	1,835.00000	27,525.00	1,725.00000	25,875.00
614-72855	Traffic Signal Controller Cabinet	4.000 EACH	25,000.00000	100,000.00	33,000.00000	132,000.00	28,800.00000	115,200.00
614-72860	Pedestrian Push Button	24.000 EACH	1,000.00000	24,000.00	500.00000	12,000.00	425.00000	10,200.00
614-72863	Pedestrian Push Button Post Assembly	17.000 EACH	2,000.00000	34,000.00	1,900.00000	32,300.00	1,275.00000	21,675.00
614-72875	Loop Detector Wire	3,402.000 LF	7.00000	23,814.00	4.65000	15,819.30	9.00000	30,618.00
614-72886	Intersection Detection System (Camera)	2.000 EACH	5,000.00000	10,000.00	10,455.00000	20,910.00	10,200.00000	20,400.00
614-81125	Traffic Signal-Light Pole Steel (1-25 Foot Mast Arm)	2.000 EACH	16,000.00000	32,000.00	20,700.00000	41,400.00	15,725.00000	31,450.00

Tabulation of Bids

Contract ID: C22476

Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1655 Casper Electric, Inc.		(2) 720A STURGEON ELECTRIC COMPANY, INC	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
<b>SECTION:</b>	0001	BID ITEMS						
						<b>LCC:</b>		
614-81130	Traffic Signal-Light Pole Steel (1-30 Foot Mast Arm)	3.000 EACH	17,000.00000	51,000.00	20,800.00000	62,400.00	16,500.00000	49,500.00
614-81145	Traffic Signal-Light Pole Steel (1-45 Foot Mast Arm)	3.000 EACH	20,000.00000	60,000.00	22,600.00000	67,800.00	18,550.00000	55,650.00
614-81150	Traffic Signal-Light Pole Steel (1-50 Foot Mast Arm)	4.000 EACH	21,000.00000	84,000.00	23,800.00000	95,200.00	19,200.00000	76,800.00
614-81155	Traffic Signal-Light Pole Steel (1-55 Foot Mast Arm)	2.000 EACH	22,000.00000	44,000.00	23,900.00000	47,800.00	19,550.00000	39,100.00
614-81165	Traffic Signal-Light Pole Steel (1-65 Foot Mast Arm)	1.000 EACH	30,000.00000	30,000.00	30,700.00000	30,700.00	29,600.00000	29,600.00
614-84000	Traffic Signal Pedestal Pole Steel	2.000 EACH	3,000.00000	6,000.00	4,500.00000	9,000.00	1,600.00000	3,200.00
614-87010	Fiber Optic Cable (Single Mode) (12 Fiber)	100.000 LF	30.00000	3,000.00	50.00000	5,000.00	56.00000	5,600.00
614-87350	Test Fiber Optic Cable	1.000 L S	20,000.00000	20,000.00	2,500.00000	2,500.00	4,300.00000	4,300.00
620-00001	Field Office (Class 1)	1.000 EACH	12,500.00000	12,500.00	21,510.00000	21,510.00	37,150.00000	37,150.00
620-00012	Field Laboratory (Class 2)	1.000 EACH	20,000.00000	20,000.00	24,650.00000	24,650.00	30,700.00000	30,700.00
620-00020	Sanitary Facility	2.000 EACH	3,000.00000	6,000.00	3,600.00000	7,200.00	6,375.00000	12,750.00
625-00000	Construction Surveying	1.000 L S	25,000.00000	25,000.00	33,225.00000	33,225.00	21,925.00000	21,925.00
626-00000	Mobilization	1.000 L S	251,482.00000	251,482.00	410,979.29000	410,979.29	170,000.00000	170,000.00
626-01113	Public Information Management (Tier III)	180.000 DAY	70.00000	12,600.00	60.00000	10,800.00	95.00000	17,100.00

Tabulation of Bids

Contract ID: C22476

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			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
<b>SECTION:</b>	0001	BID ITEMS						
						<b>LCC:</b>		
629-01005	Survey Monument (Type 5)	4.000 EACH	250.00000	1,000.00	325.00000	1,300.00	395.00000	1,580.00
629-01006	Survey Monument (Type 6)	15.000 EACH	70.00000	1,050.00	165.00000	2,475.00	375.00000	5,625.00
629-01065	Survey Monument (Type 5S)	5.000 EACH	100.00000	500.00	165.00000	825.00	385.00000	1,925.00
630-00000	Flagging	320.000 HOUR	30.00000	9,600.00	43.50000	13,920.00	35.00000	11,200.00
630-00007	Traffic Control Inspection	48.000 DAY	250.00000	12,000.00	200.00000	9,600.00	275.00000	13,200.00
630-00012	Traffic Control Management	125.000 DAY	1,000.00000	125,000.00	590.00000	73,750.00	1,205.00000	150,625.00
630-80001	Flashing Beacon (Portable)	4.000 EACH	750.00000	3,000.00	760.00000	3,040.00	445.00000	1,780.00
630-80335	Barricade (Type 3 M-A) (Temporary)	8.000 EACH	200.00000	1,600.00	165.00000	1,320.00	225.00000	1,800.00
630-80340	Pedestrian Barricade (ADA)	300.000 LF	50.00000	15,000.00	10.00000	3,000.00	45.00000	13,500.00
630-80341	Construction Traffic Sign (Panel Size A)	48.000 EACH	25.00000	1,200.00	65.00000	3,120.00	35.00000	1,680.00
630-80342	Construction Traffic Sign (Panel Size B)	36.000 EACH	25.00000	900.00	82.00000	2,952.00	45.00000	1,620.00
630-80357	Advance Warning Flashing or Sequencing Arrow Panel (B Type)	4.000 EACH	1,200.00000	4,800.00	2,175.00000	8,700.00	3,850.00000	15,400.00
630-80359	Portable Message Sign Panel	500.000 DAY	31.00000	15,500.00	55.00000	27,500.00	130.00000	65,000.00
630-80360	Drum Channelizing Device	100.000 EACH	30.00000	3,000.00	44.00000	4,400.00	35.00000	3,500.00
630-80363	Drum Channelizing Device (With Light) (Flashing)	50.000 EACH	32.00000	1,600.00	60.00000	3,000.00	35.00000	1,750.00

Tabulation of Bids

Contract ID: C22476

Item Code	Description	Quantity	(0) -EST- Engineer's Estimate		(1) 1655 Casper Electric, Inc.		(2) 720A STURGEON ELECTRIC COMPANY, INC	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
<b>SECTION:</b>	0001	BID ITEMS						
						<b>LCC:</b>		
630-80380	Traffic Cone	300.000 EACH	10.00000	3,000.00	13.00000	3,900.00	15.00000	4,500.00
632-00000	Night Work Lighting	1.000 L S	10,000.00000	10,000.00	30,000.00000	30,000.00	70,000.00000	70,000.00
<b>Section Totals:</b>				\$2,001,445.00		\$2,429,999.84		\$2,555,000.00
<b>Contract Grand Totals</b>				<b>\$2,001,445.00</b>		<b>\$2,429,999.84</b>		<b>\$2,555,000.00</b>

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Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
<b>SECTION:</b>	0001	BID ITEMS						
0005	201-00000 Clearing and Grubbing	1.000	10,000.00000	7,500.00000 L S	10,000.00	7,500.00	75.00%	-2,500.00
0010	202-00047 Removal of Electrical Equipment	1.000	200.00000	5,000.00000 L S	200.00	5,000.00	2500.00%	4,800.00
0015	202-00200 Removal of Sidewalk	675.000	30.00000	52.00000 SY	20,250.00	35,100.00	173.33%	14,850.00
0020	202-00203 Removal of Curb and Gutter	412.000	25.00000	50.00000 LF	10,300.00	20,600.00	200.00%	10,300.00
0025	202-00210 Removal of Concrete Pavement	24.000	25.00000	150.00000 SY	600.00	3,600.00	600.00%	3,000.00
0030	202-00705 Removal of Light Standard Foundation	2.000	1,000.00000	1,275.00000 EACH	2,000.00	2,550.00	127.50%	550.00
0035	202-00828 Removal of Traffic Signal Equipment	1.000	20,000.00000	65,000.00000 L S	20,000.00	65,000.00	325.00%	45,000.00
0040	203-01597 Potholing	100.000	350.00000	380.00000 HOUR	35,000.00	38,000.00	108.57%	3,000.00
0045	208-00035 Aggregate Bag	200.000	20.00000	6.60000 LF	4,000.00	1,320.00	33.00%	-2,680.00
0050	208-00046 Pre-fabricated Concrete Washout Structure (Type 1)	2.000	2,000.00000	3,400.00000 EACH	4,000.00	6,800.00	170.00%	2,800.00
0055	208-00051 Storm Drain Inlet Protection (Type I)	23.000	15.00000	7.40000 LF	345.00	170.20	49.33%	-174.80
0060	208-00054 Storm Drain Inlet Protection (Type II)	1.000	350.00000	245.00000 EACH	350.00	245.00	70.00%	-105.00

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Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
<b>SECTION:</b>	0001	BID ITEMS						
0065	208-00103 Removal and Disposal of Sediment (Labor)	40.000	60.00000	90.00000 HOUR	2,400.00	3,600.00	150.00%	1,200.00
0070	208-00105 Removal and Disposal of Sediment (Equipment)	40.000	180.00000	200.00000 HOUR	7,200.00	8,000.00	111.11%	800.00
0075	208-00106 Sweeping (Sediment Removal)	40.000	75.00000	200.00000 HOUR	3,000.00	8,000.00	266.67%	5,000.00
0080	210-00300 Reset Brick Pavers	42.000	125.00000	150.00000 SY	5,250.00	6,300.00	120.00%	1,050.00
0085	210-00479 Reset Radio Communication Antenna	2.000	500.00000	2,100.00000 EACH	1,000.00	4,200.00	420.00%	3,200.00
0090	210-00760 Reset Luminaire	11.000	300.00000	300.00000 EACH	3,300.00	3,300.00	100.00%	0.00
0095	210-00860 Reset Pedestrian Push Button	1.000	200.00000	375.00000 EACH	200.00	375.00	187.50%	175.00
0100	210-00861 Reset Wiring	1.000	2,000.00000	2,000.00000 L S	2,000.00	2,000.00	100.00%	0.00
0105	210-00867 Reset Fire Preemption Unit	2.000	500.00000	2,965.00000 EACH	1,000.00	5,930.00	593.00%	4,930.00
0110	210-00870 Reset Coordination Unit	2.000	1,000.00000	1,000.00000 EACH	2,000.00	2,000.00	100.00%	0.00
0115	210-00882 Reset Traffic Signal Vehicle Detector	4.000	1,200.00000	1,900.00000 EACH	4,800.00	7,600.00	158.33%	2,800.00
0120	210-04050 Adjust Valve Box	1.000	500.00000	1,150.00000 EACH	500.00	1,150.00	230.00%	650.00



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Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
<b>SECTION:</b>	0001	BID ITEMS						
0125	210-04051 Adjust Valve Box (Special)	1.000	500.00000	1,250.00000 EACH	500.00	1,250.00	250.00%	750.00
0130	212-00700 Organic Fertilizer	30.000	6.00000	2.75000 LB	180.00	82.50	45.83%	-97.50
0135	212-00701 Compost (Mechanically Applied)	7.000	20.00000	285.00000 CY	140.00	1,995.00	1425.00%	1,855.00
0140	212-00703 Humate	20.000	20.00000	3.50000 LB	400.00	70.00	17.50%	-330.00
0145	212-00704 Mycorrhizae	2.000	40.00000	39.00000 LB	80.00	78.00	97.50%	-2.00
0150	212-00705 Elemental Sulfur	2.000	40.00000	32.00000 LB	80.00	64.00	80.00%	-16.00
0155	212-00706 Seeding (Native) Drill	0.100	3,000.00000	2,416.00000 ACRE	300.00	241.60	80.53%	-58.40
0160	213-00012 Spray-on Mulch Blanket	0.100	6,000.00000	18,577.00000 ACRE	600.00	1,857.70	309.62%	1,257.70
0165	403-00721 Hot Mix Asphalt (Patching) (Asphalt)	151.000	70.00000	67.60000 SY	10,570.00	10,207.60	96.57%	-362.40
0170	412-00600 Concrete Pavement (6 Inch)	20.000	120.00000	290.00000 SY	2,400.00	5,800.00	241.67%	3,400.00
0175	503-00018 Drilled Shaft (18 Inch)	10.000	300.00000	535.00000 LF	3,000.00	5,350.00	178.33%	2,350.00
0180	503-00036 Drilled Shaft (36 Inch)	266.000	800.00000	835.00000 LF	212,800.00	222,110.00	104.38%	9,310.00

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Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
<b>SECTION:</b>	0001	BID ITEMS						
0185	503-00048 Drilled Shaft (48 Inch)	21.000	900.00000	1,175.00000 LF	18,900.00	24,675.00	130.56%	5,775.00
0190	608-00000 Concrete Sidewalk	170.000	70.00000	130.00000 SY	11,900.00	22,100.00	185.71%	10,200.00
0195	608-00010 Concrete Curb Ramp	481.000	160.00000	136.00000 SY	76,960.00	65,416.00	85.00%	-11,544.00
0200	609-21020 Curb and Gutter Type 2 (Section II-B)	269.000	26.00000	82.00000 LF	6,994.00	22,058.00	315.38%	15,064.00
0205	613-00200 2 Inch Electrical Conduit	877.000	15.00000	28.00000 LF	13,155.00	24,556.00	186.67%	11,401.00
0210	613-00206 2 Inch Electrical Conduit (Bored)	1,439.000	25.00000	35.35000 LF	35,975.00	50,868.65	141.40%	14,893.65
0215	613-00300 3 Inch Electrical Conduit	361.000	20.00000	38.00000 LF	7,220.00	13,718.00	190.00%	6,498.00
0220	613-00306 3 Inch Electrical Conduit (Bored)	4,940.000	40.00000	40.00000 LF	197,600.00	197,600.00	100.00%	0.00
0225	613-07000 Pull Box (Special)	19.000	1,000.00000	650.00000 EACH	19,000.00	12,350.00	65.00%	-6,650.00
0230	613-07002 Type Two Pull Box	5.000	800.00000	1,615.00000 EACH	4,000.00	8,075.00	201.88%	4,075.00
0235	613-07004 Type Four Pull Box	12.000	1,800.00000	2,025.00000 EACH	21,600.00	24,300.00	112.50%	2,700.00
0240	613-07005 Type Five Pull Box	4.000	2,000.00000	2,500.00000 EACH	8,000.00	10,000.00	125.00%	2,000.00

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Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
<b>SECTION:</b>	0001	BID ITEMS						
0245	613-10000 Wiring	1.000	50,000.00000	63,250.00000 L S	50,000.00	63,250.00	126.50%	13,250.00
0250	613-20200 Luminaire (Install Only)	4.000	300.00000	300.00000 EACH	1,200.00	1,200.00	100.00%	0.00
0255	613-80130 Service Meter Cabinet	3.000	5,000.00000	9,245.00000 EACH	15,000.00	27,735.00	184.90%	12,735.00
0260	614-00011 Sign Panel (Class I)	138.000	25.00000	62.00000 SF	3,450.00	8,556.00	248.00%	5,106.00
0265	614-00026 Sign Panel (Class I) (Install Only)	15.000	300.00000	225.00000 EACH	4,500.00	3,375.00	75.00%	-1,125.00
0270	614-70150 Pedestrian Signal Face (16) (Countdown)	26.000	600.00000	650.00000 EACH	15,600.00	16,900.00	108.33%	1,300.00
0275	614-70336 Traffic Signal Face (12-12-12)	45.000	900.00000	940.00000 EACH	40,500.00	42,300.00	104.44%	1,800.00
0280	614-70560 Traffic Signal Face (12-12-12-12-12)	15.000	1,400.00000	1,835.00000 EACH	21,000.00	27,525.00	131.07%	6,525.00
0285	614-72855 Traffic Signal Controller Cabinet	4.000	25,000.00000	33,000.00000 EACH	100,000.00	132,000.00	132.00%	32,000.00
0290	614-72860 Pedestrian Push Button	24.000	1,000.00000	500.00000 EACH	24,000.00	12,000.00	50.00%	-12,000.00
0295	614-72863 Pedestrian Push Button Post Assembly	17.000	2,000.00000	1,900.00000 EACH	34,000.00	32,300.00	95.00%	-1,700.00
0300	614-72875 Loop Detector Wire	3,402.000	7.00000	4.65000 LF	23,814.00	15,819.30	66.43%	-7,994.70

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Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
<b>SECTION:</b>	0001	BID ITEMS						
0305	614-72886 Intersection Detection System (Camera)	2.000	5,000.00000	10,455.00000 EACH	10,000.00	20,910.00	209.10%	10,910.00
0310	614-81125 Traffic Signal-Light Pole Steel (1-25 Foot Mast Arm)	2.000	16,000.00000	20,700.00000 EACH	32,000.00	41,400.00	129.38%	9,400.00
0315	614-81130 Traffic Signal-Light Pole Steel (1-30 Foot Mast Arm)	3.000	17,000.00000	20,800.00000 EACH	51,000.00	62,400.00	122.35%	11,400.00
0320	614-81145 Traffic Signal-Light Pole Steel (1-45 Foot Mast Arm)	3.000	20,000.00000	22,600.00000 EACH	60,000.00	67,800.00	113.00%	7,800.00
0325	614-81150 Traffic Signal-Light Pole Steel (1-50 Foot Mast Arm)	4.000	21,000.00000	23,800.00000 EACH	84,000.00	95,200.00	113.33%	11,200.00
0330	614-81155 Traffic Signal-Light Pole Steel (1-55 Foot Mast Arm)	2.000	22,000.00000	23,900.00000 EACH	44,000.00	47,800.00	108.64%	3,800.00
0335	614-81165 Traffic Signal-Light Pole Steel (1-65 Foot Mast Arm)	1.000	30,000.00000	30,700.00000 EACH	30,000.00	30,700.00	102.33%	700.00
0340	614-84000 Traffic Signal Pedestal Pole Steel	2.000	3,000.00000	4,500.00000 EACH	6,000.00	9,000.00	150.00%	3,000.00
0345	614-87010 Fiber Optic Cable (Single Mode) (12 Fiber)	100.000	30.00000	50.00000 LF	3,000.00	5,000.00	166.67%	2,000.00
0350	614-87350 Test Fiber Optic Cable	1.000	20,000.00000	2,500.00000 L S	20,000.00	2,500.00	12.50%	-17,500.00

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Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
<b>SECTION:</b>	0001	BID ITEMS						
0355	620-00001 Field Office (Class 1)	1.000	12,500.00000	21,510.00000 EACH	12,500.00	21,510.00	172.08%	9,010.00
0360	620-00012 Field Laboratory (Class 2)	1.000	20,000.00000	24,650.00000 EACH	20,000.00	24,650.00	123.25%	4,650.00
0365	620-00020 Sanitary Facility	2.000	3,000.00000	3,600.00000 EACH	6,000.00	7,200.00	120.00%	1,200.00
0370	625-00000 Construction Surveying	1.000	25,000.00000	33,225.00000 L S	25,000.00	33,225.00	132.90%	8,225.00
0375	626-00000 Mobilization	1.000	251,482.00000	410,979.29000 L S	251,482.00	410,979.29	163.42%	159,497.29
0380	626-01113 Public Information Management (Tier III)	180.000	70.00000	60.00000 DAY	12,600.00	10,800.00	85.71%	-1,800.00
0385	629-01005 Survey Monument (Type 5)	4.000	250.00000	325.00000 EACH	1,000.00	1,300.00	130.00%	300.00
0390	629-01006 Survey Monument (Type 6)	15.000	70.00000	165.00000 EACH	1,050.00	2,475.00	235.71%	1,425.00
0395	629-01065 Survey Monument (Type 5S)	5.000	100.00000	165.00000 EACH	500.00	825.00	165.00%	325.00
0400	630-00000 Flagging	320.000	30.00000	43.50000 HOUR	9,600.00	13,920.00	145.00%	4,320.00
0405	630-00007 Traffic Control Inspection	48.000	250.00000	200.00000 DAY	12,000.00	9,600.00	80.00%	-2,400.00
0410	630-00012 Traffic Control Management	125.000	1,000.00000	590.00000 DAY	125,000.00	73,750.00	59.00%	-51,250.00

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Line	Item/Description	Quantity	Estimated Price	Bid Price/Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
<b>SECTION:</b>	0001	BID ITEMS						
0415	630-80001 Flashing Beacon (Portable)	4.000	750.00000	760.00000 EACH	3,000.00	3,040.00	101.33%	40.00
0420	630-80335 Barricade (Type 3 M-A) (Temporary)	8.000	200.00000	165.00000 EACH	1,600.00	1,320.00	82.50%	-280.00
0425	630-80340 Pedestrian Barricade (ADA)	300.000	50.00000	10.00000 LF	15,000.00	3,000.00	20.00%	-12,000.00
0430	630-80341 Construction Traffic Sign (Panel Size A)	48.000	25.00000	65.00000 EACH	1,200.00	3,120.00	260.00%	1,920.00
0435	630-80342 Construction Traffic Sign (Panel Size B)	36.000	25.00000	82.00000 EACH	900.00	2,952.00	328.00%	2,052.00
0440	630-80357 Advance Warning Flashing or Sequencing Arrow Panel (B Type)	4.000	1,200.00000	2,175.00000 EACH	4,800.00	8,700.00	181.25%	3,900.00
0445	630-80359 Portable Message Sign Panel	500.000	31.00000	55.00000 DAY	15,500.00	27,500.00	177.42%	12,000.00
0450	630-80360 Drum Channelizing Device	100.000	30.00000	44.00000 EACH	3,000.00	4,400.00	146.67%	1,400.00
0455	630-80363 Drum Channelizing Device (With Light) (Flashing)	50.000	32.00000	60.00000 EACH	1,600.00	3,000.00	187.50%	1,400.00
0460	630-80380 Traffic Cone	300.000	10.00000	13.00000 EACH	3,000.00	3,900.00	130.00%	900.00
0465	632-00000 Night Work Lighting	1.000	10,000.00000	30,000.00000 L S	10,000.00	30,000.00	300.00%	20,000.00
<b>Section 0001 Subtotal</b>					<b>\$2,001,445.00</b>	<b>\$2,429,999.84</b>	<b>121.41%</b>	<b>\$428,554.84</b>

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Line	Item/ Description	Quantity	Estimated Price	Bid Price/ Units	Estimated Amount	Bid Amount	Bid Est %	Overrun (+) Underrun (-)
<b>Contract Total for Calculated Low Bidders Bid Items</b>					<b>\$2,001,445.00</b>	<b>\$2,429,999.84</b>	<b>121.41%</b>	<b>\$428,554.84</b>