

PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY

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<b>Meeting Date:</b>	<b>August 23, 2022</b>	<input checked="" type="checkbox"/>	<b>Consent</b>	<input type="checkbox"/>	<b>Regular</b>
		<input type="checkbox"/>	<b>Workshop</b>	<input type="checkbox"/>	<b>Public Hearing</b>

<b>Department:</b>	<b>Engineering &amp; Public Works Department</b>
<b>Submitted By:</b>	<b>Engineering &amp; Public Works Department</b>
<b>Submitted For:</b>	<b>Roadway Production Division</b>

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I. EXECUTIVE BRIEF

**Motion and Title: Staff recommends motion to approve:**

- A) an annual traffic signal construction contract with Gerelco Traffic Controls, Inc. (GTC) in an amount not to exceed \$5,000,000; and
- B) an annual traffic signal construction contract with Horsepower Electric, Inc. (HPE) in an amount not to exceed \$5,000,000.

**SUMMARY:** Approval of these contracts will authorize the annual construction services necessary to install/repair mast arms, traffic signals and construct intersection improvements on a work order basis throughout Palm Beach County (County). The Office of Equal Business Opportunity approved a waiver for these contracts on January 20, 2022, based upon the determination that sufficient qualified Small/Minority/Women Business Enterprises providing the goods or services required by the contracts are unavailable in Palm Beach County, despite every reasonable attempt to locate them. GTC and HPE were only two responsive, responsible bidders. Bids for the contract were received by the Engineering Department on March 15, 2022. These contracts will be in effect for 36 months from the date of approval by the Board of County Commissioners (BCC). GTC has an office located in the County. The above contract amounts are based upon the estimated amount to be expended for traffic signal construction projects throughout the County over a 36 month period. Countywide (YBH)

**Background and Justification:** After reviewing the attached contracts and finding them in proper order, the Engineering Department recommends BCC approval.

**Attachments:**

- 1. GTC Contract (3)
- 2. HPE Contract (3)
- 3. Office of Equal Business Opportunity Approval of Request for Waiver
- 4. Bid Tabulation

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Recommended by: <i>YBH/TEL</i>	<i>David J. Red</i>	<i>7/19/2022</i>
	County Engineer	Date
Approved By: <i>Pa</i>	<i>Pa</i>	<i>7/22/22</i>
	Assistant County Administrator	Date

**II. FISCAL IMPACT ANALYSIS**

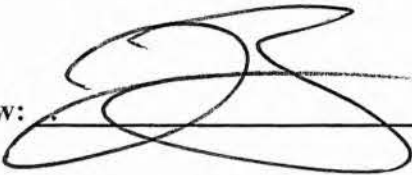
**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2022	2023	2024	2025	2026
Capital Expenditures	\$ -0-	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
NET FISCAL IMPACT	\$ **	-0-	-0-	-0-	-0-
# ADDITIONAL FTE POSITIONS (Cumulative)					

Is Item Included in Current Budget?                      Yes    No  
 Does this item include the use of federal funds?    Yes    No X

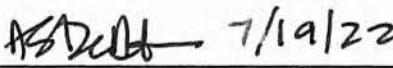
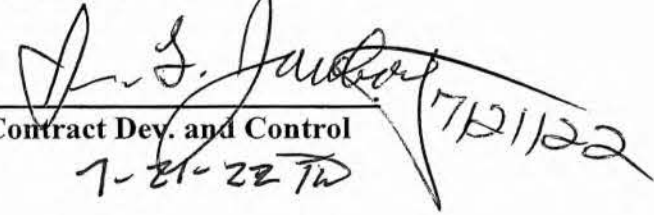
Budget Account No: Various  
 Recommended Sources of Funds/Summary of Fiscal Impact:

\*\* Fiscal impact is indeterminable at this time. These contractors are authorized to provide services on a task order basis. Funding will be established by project as necessary.

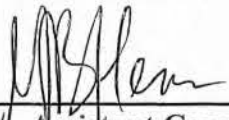
C. Departmental Fiscal Review: 

**III. REVIEW COMMENTS**

**A. OFMB Fiscal and/or Contract Dev. and Control Comments:**

<p>                  _____                  OFMB JA 7-19-22                  JR 7-19-22</p>	<p>                  _____                  Contract Dev. and Control                  7-21-22 TW</p>
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**B. Approved as to Form and Legal Sufficiency:**

  
 \_\_\_\_\_  
 Assistant County Attorney      7/22/22

**C. Other Department Review:**

\_\_\_\_\_  
 Department Director



Office of  
Equal Business Opportunity  
50 South Military Trail, Suite 202  
West Palm Beach, FL 33415  
(561) 616-6840  
www.pbcgov.com/oebo



**Palm Beach County  
Board of County  
Commissioners**

- Robert S. Weinroth, Mayor
- Gregg K. Weiss, Vice Mayor
- Maria G. Marino
- Dave Kerner
- Maria Sachs
- Melissa McKinlay
- Mack Bernard

**County Administrator**

Verdenia C. Baker

"An Equal Opportunity  
Affirmative Action Employer"

Official Electronic Letterhead

**INTER-OFFICE MEMORANDUM**

Date: Thursday, January 20, 2022

To: David L. Ricks, County Engineer  
Engineering and Public Works

From: Tonya Davis Johnson, Director *T. Johnson*  
Office of Equal Business Opportunity

Re: Approval of Request for Waiver of API Requirements for  
Annual Traffic Signal Construction Contract Palm Beach  
County Project #2022052

Your Request for Waiver of API Requirements for the above named project was received on Thursday, January 06, 2022 and has been reviewed. It is the determination of the Office of Equal Business Opportunity (OEBO) that the request for Waiver of API Requirements is **APPROVED**.

The OEBO is granting this waiver based upon the determination that sufficient qualified S/M/WBEs providing the goods or services required by the contract are unavailable in Palm Beach County despite every reasonable attempt to locate them.

If you have any questions, please contact Allen Gray at 561-616-6842 or email at [agray@pcgov.org](mailto:agray@pcgov.org).

Thank you.

cc: Allen Gray, Manager

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders	Engineer's Estimate	Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
102-1-A	General Maintenance of Traffic	1,000	HR	F&I	\$ 88.00		\$ 121.00	\$ 121,000.00	\$ 55.00	\$ 55,000.00
102-1-B	Maintenance of Traffic (Securing Signal Pole)	24	HR	F&I	\$ 302.50		\$ 480.00	\$ 11,520.00	\$ 125.00	\$ 3,000.00
102-1-C	Maintenance of Traffic (Utility Location, Soft Dig Up to 6 Feet)	50	HR	F&I	\$ 175.00		\$ 225.00	\$ 11,250.00	\$ 125.00	\$ 6,250.00
102-1-C1	Maintenance of Traffic (Utility Location, Soft Dig Up to 10 Feet)	400	HR	F&I	\$ 240.00		\$ 350.00	\$ 140,000.00	\$ 130.00	\$ 52,000.00
102-1-D	General Maintenance of Traffic (Night Operation)	4	EA	F&I	\$ 512.50		\$ 950.00	\$ 3,800.00	\$ 75.00	\$ 300.00
102-14	Maintenance of Traffic (Traffic Control Officer)	48	HR	F&I	\$ 150.00		\$ 225.00	\$ 10,800.00	\$ 75.00	\$ 3,600.00
102-99	Portable Changeable - Variable Message Sign (Temporary)	20	ED	F&I	\$ 47.50		\$ 65.00	\$ 1,300.00	\$ 30.00	\$ 600.00
455-142	Crosshole Sonic Logging/ Drill Shaft Testing Testing	4	EA	F&I	\$ 2,650.00		\$ 2,300.00	\$ 9,200.00	\$ 3,000.00	\$ 12,000.00
455-147-1	Thermal Integrity Testing, Up to 4' Shaft Diameters	4	EA	F	\$ 3,825.00		\$ 2,650.00	\$ 10,600.00	\$ 5,000.00	\$ 20,000.00
455-147-2	Thermal Integrity Testing, 4.5' to 6' Shaft Diameters	5	EA	F	\$ 4,400.00		\$ 3,300.00	\$ 16,500.00	\$ 5,500.00	\$ 27,500.00
522-1	Concrete Sidewalk and Driveways 4" Thick	20	SY	F&I	\$ 115.00		\$ 158.00	\$ 3,160.00	\$ 72.00	\$ 1,440.00
522-2	Concrete Sidewalk and Driveways 6" Thick	\$ 20.00	SY	F&I	\$ 134.70		\$ 183.00	\$ 3,660.00	\$ 86.40	\$ 1,728.00
620-1-1	Grounding Electrode	\$ 100.00	EA	F&I	\$ 56.00		\$ 12.00	\$ 1,200.00	\$ 100.00	\$ 10,000.00
630-2-11-2	2" PVC (Sch 40) Underground Conduit	\$ 3,000.00	LF	F&I	\$ 19.15		\$ 8.30	\$ 24,900.00	\$ 30.00	\$ 90,000.00
630-2-11-2A	Additional 2" PVC (Sch 40) Conduit, in Open Trench	\$ 2,600.00	LF	F&I	\$ 5.10		\$ 5.20	\$ 13,520.00	\$ 5.00	\$ 13,000.00
630-2-12-2-1	1-2" (HDPE SDR 11) Under Pavement Conduit (Directional Bore)	\$ 1,280.00	LF	F&I	\$ 30.50		\$ 25.00	\$ 32,000.00	\$ 36.00	\$ 46,080.00
630-2-12-2-2	2-2" (HDPE SDR 11) Under Pavement Conduit (Directional Bore)	1870	LF	F&I	\$ 33.70		\$ 29.00	\$ 54,230.00	\$ 38.40	\$ 71,808.00
630-2-12-2-3	3-2" (HDPE SDR 11) Under Pavement Conduit (Directional Bore)	2520	LF	F&I	\$ 37.50		\$ 33.00	\$ 83,160.00	\$ 42.00	\$ 105,840.00
630-2-12-2-4	4-2" (HDPE SDR 11) Under Pavement Conduit (Directional Bore)	1,600	LF	F&I	\$ 41.70		\$ 39.00	\$ 62,400.00	\$ 44.40	\$ 71,040.00
630-2-12-2-5	5-2" (HDPE SDR 11) Under Pavement Conduit (Directional Bore)	1,856	LF	F&I	\$ 45.30		\$ 45.00	\$ 83,520.00	\$ 45.60	\$ 84,633.60
630-2-14-1	1" Rigid Conduit Hot Dipped Galvanized Conduit Surface Mounted	425	LF	F&I	\$ 31.60		\$ 33.20	\$ 14,110.00	\$ 30.00	\$ 12,750.00
630-2-14-2	2" Rigid Conduit Hot Dipped Galvanized Conduit Surface Mounted	930	LF	F&I	\$ 40.90		\$ 43.80	\$ 40,734.00	\$ 38.00	\$ 35,340.00
630-3	Rodding and Cleaning Out Existing Conduit Any Type	100	LF	F&I	\$ 1.70		\$ 1.90	\$ 190.00	\$ 1.50	\$ 150.00
632-7-1-19	Signal Cable - 19 Conductor	1,440	LF	F&I	\$ 15.75		\$ 6.50	\$ 9,360.00	\$ 25.00	\$ 36,000.00
632-7-1-19A	Signal Cable (Span Length 0' - 250')	2	PI	F&I	\$ 8,542.00		\$ 5,084.00	\$ 10,168.00	\$ 12,000.00	\$ 24,000.00
632-7-1-19B	Signal Cable (Span Length 251' - 350')	1	PI	F&I	\$ 9,425.00		\$ 5,850.00	\$ 5,850.00	\$ 13,000.00	\$ 13,000.00
632-7-1-19C	Signal Cable (Span Length 351' - 450')	4	PI	F&I	\$ 9,975.00		\$ 5,950.00	\$ 23,800.00	\$ 14,000.00	\$ 56,000.00
632-7-1-19D	Signal Cable (Span Length 451' - 550')	3	PI	F&I	\$ 11,100.00		\$ 7,200.00	\$ 21,600.00	\$ 15,000.00	\$ 45,000.00
632-7-1-19E	Signal Cable (Span Length 551' - 650')	6	PI	F&I	\$ 11,900.00		\$ 7,800.00	\$ 46,800.00	\$ 16,000.00	\$ 96,000.00

<b>BID TABULATIONS</b> <b>ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT</b> <b>PBC PROJECT #2022052</b>					<b>Average of Bid</b> <b>Items for All Bidders</b>	<b>Engineer's Estimate</b>	<b>Gereco Traffic Controls, Inc</b>		<b>Horsepower Electric, Inc.</b>	
<b>Item #</b>	<b>Item Description</b>	<b>Qty.</b>	<b>Units</b>	<b>F,I,R</b>	<b>Unit Price</b>	<b>Unit Price</b>	<b>Unit Price</b>	<b>Amount</b>	<b>Unit Price</b>	<b>Amount</b>
632-7-1-19F	Signal Cable (Span Length 651' - 750')	6	PI	F&I	\$ 12,750.00		\$ 8,500.00	\$ 51,000.00	\$ 17,000.00	\$ 102,000.00
632-7-1-19G	Signal Cable (Span Length 751' - Greater)	6	PI	F&I	\$ 14,700.00		\$ 11,400.00	\$ 68,400.00	\$ 18,000.00	\$ 108,000.00
632-7-1-4	Signal Cable - 4 Conductor	1000	LF	F&I	\$ 10.20		\$ 5.40	\$ 5,400.00	\$ 15.00	\$ 15,000.00
632-7-1-4A	Pedestrian Signal Cable - 4 Conductor	25	PI	F&I	\$ 4,500.00		\$ 4,500.00	\$ 112,500.00	\$ 4,500.00	\$ 112,500.00
632-7-1-7	Signal Cable - 7 Conductor	1000	LF	F&I	\$ 12.85		\$ 5.70	\$ 5,700.00	\$ 20.00	\$ 20,000.00
632-7-1-7A	Pedestrian Signal Cable - 7 Conductor	25	PI	F&I	\$ 6,875.00		\$ 6,250.00	\$ 156,250.00	\$ 7,500.00	\$ 187,500.00
632-7-6	Signal Cable, Remove - in Intersection	10	PI	R	\$ 1,000.00		\$ 1,500.00	\$ 15,000.00	\$ 500.00	\$ 5,000.00
632-7-7	Signal Cable, Remove - in Intersection	530	LF	R	\$ 1.45		\$ 0.90	\$ 477.00	\$ 2.00	\$ 1,060.00
634-4-153-1A	Span Wire Assembly (3/8") (Span Length 0' - 250')	2	PI	F&I	\$ 5,242.50		\$ 5,085.00	\$ 10,170.00	\$ 5,400.00	\$ 10,800.00
634-4-153-1B	Span Wire Assembly (3/8") (Span Length 251' - 350')	1	PI	F&I	\$ 5,925.00		\$ 5,850.00	\$ 5,850.00	\$ 6,000.00	\$ 6,000.00
634-4-153-1C	Span Wire Assembly (3/8") (Span Length 351' - 450')	4	PI	F&I	\$ 6,225.00		\$ 5,950.00	\$ 23,800.00	\$ 6,500.00	\$ 26,000.00
634-4-153-1D	Span Wire Assembly (3/8") (Span Length 451' - 550')	2	PI	F&I	\$ 6,650.00		\$ 6,300.00	\$ 12,600.00	\$ 7,000.00	\$ 14,000.00
634-4-153-1E	Span Wire Assembly (3/8") (Span Length 551' - 650')	2	PI	F&I	\$ 7,150.00		\$ 6,800.00	\$ 13,600.00	\$ 7,500.00	\$ 15,000.00
634-4-153-1F	Span Wire Assembly (3/8") (Span Length 651' - 750')	1	PI	F&I	\$ 7,625.00		\$ 7,250.00	\$ 7,250.00	\$ 8,000.00	\$ 8,000.00
634-4-153-2E	Span Wire Assembly (7/16") (Span Length: 551' - 650')	4	PI	F&I	\$ 7,275.00		\$ 7,550.00	\$ 30,200.00	\$ 7,000.00	\$ 28,000.00
634-4-153-2F	Span Wire Assembly (7/16") (Span Length 651' - 750')	1	PI	F&I	\$ 7,500.00		\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00
634-4-153-2G	Span Wire Assembly (7/16") (Span Length 751' - Greater)	1	PI	F&I	\$ 7,750.00		\$ 7,500.00	\$ 7,500.00	\$ 8,000.00	\$ 8,000.00
634-4-153-3F	Span Wire Assembly (1/2") (Span Length 651' - 750')	1	PI	F&I	\$ 8,907.50		\$ 9,315.00	\$ 9,315.00	\$ 8,500.00	\$ 8,500.00
634-4-153-3G	Span Wire Assembly (1/2") (Span Length 751' - Greater)	2	PI	F&I	\$ 9,750.00		\$ 10,500.00	\$ 21,000.00	\$ 9,000.00	\$ 18,000.00
634-4-153-5G	Span Wire Assembly (3/4") (Span Length 751' - Greater)	1	PI	F&I	\$ 10,825.50		\$ 11,651.00	\$ 11,651.00	\$ 10,000.00	\$ 10,000.00
634-31-405	Mast Arm Double Arm, 60' and 70.5' on Existing Foundation	1	EA	F&I	\$ 71,125.00		\$ 67,250.00	\$ 67,250.00	\$ 75,000.00	\$ 75,000.00
634-5-1	Fiberglass insulator (to insulate Power Lines)	20	LF	F&I	\$ 36.25		\$ 22.50	\$ 450.00	\$ 50.00	\$ 1,000.00
635-2-10	Pull Box (11" x 18" x 12"D) Heavy Duty Covers (Tier 15)	100	LF	F&I	\$ 825.00		\$ 350.00	\$ 35,000.00	\$ 1,300.00	\$ 130,000.00
635-2-11	Pull Box (13" x 24" x 12"D) Heavy Duty Covers (Tier 15)	46	LF	F&I	\$ 1,190.00		\$ 700.00	\$ 32,200.00	\$ 1,680.00	\$ 77,280.00
635-2-12	Pull Box (24" x 36" x 12"D) Heavy Duty Covers (Tier 15)	100	EA	F&I	\$ 1,575.00		\$ 1,350.00	\$ 135,000.00	\$ 1,800.00	\$ 180,000.00
635-2-12-A	Pull Box (17" x 30" x 12"D) Heavy Duty Covers (Tier 15)	170	EA	F&I	\$ 1,500.00		\$ 1,000.00	\$ 170,000.00	\$ 2,000.00	\$ 340,000.00
635-2-12-B	Pull Box, (24" x 36" x 24"D) Fiberglass, Heavy Duty Covers (Tier 15)	2	EA	F&I	\$ 2,175.00		\$ 1,850.00	\$ 3,700.00	\$ 2,500.00	\$ 5,000.00
635-2-12-C	Pull Box (30" x 48" x 24"D) Heavy Duty Split Covers (Its) (Tier 15)	12	EA	F&I	\$ 3,500.00		\$ 3,500.00	\$ 42,000.00	\$ 3,500.00	\$ 42,000.00

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders	Engineer's Estimate	Gereco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
635-2-12-D	Pull Box (17" x 30" x 24"D) Heavy Duty Split Covers (Its) (Tier 15)	10	EA	F&I	\$ 2,200.00		\$ 2,200.00	\$ 22,000.00	\$ 2,200.00	\$ 22,000.00
639-1-111	Electrical Power Service with Meter Base (Overhead) Meter Furnished By Power Company	2	AS	F&I	\$ 2,413.00		\$ 1,326.00	\$ 2,652.00	\$ 3,500.00	\$ 7,000.00
639-1-113	Electrical Power Service No Meter Base (Overhead)	2	AS	F&I	\$ 2,362.50		\$ 1,325.00	\$ 2,650.00	\$ 3,400.00	\$ 6,800.00
639-1-121	Electrical Power Service with Meter Base (Underground) Meter Furnished By Power Company	14	AS	F&I	\$ 3,662.50		\$ 1,325.00	\$ 18,550.00	\$ 6,000.00	\$ 84,000.00
639-1-123	Electrical Power Service No Meter Base (Underground)	10	AS	F&I	\$ 2,575.00		\$ 1,150.00	\$ 11,500.00	\$ 4,000.00	\$ 40,000.00
639-1-610	Remove Power Service (Overhead)	2	EA	R	\$ 667.50		\$ 975.00	\$ 1,950.00	\$ 360.00	\$ 720.00
639-1-620	Remove Power Service (Underground)	2	EA	R	\$ 554.00		\$ 628.00	\$ 1,256.00	\$ 480.00	\$ 960.00
639-2-1-3	Electrical Service Wire (Sigle Phase 3-Wire, Triplex)	1866	LF	F&I	\$ 9.25		\$ 5.50	\$ 10,263.00	\$ 13.00	\$ 24,258.00
639-2-1-2	Electrical Service Wire (Sigle Phase 2-Wire, Duplex)	1000	LF	F&I	\$ 7.70		\$ 3.40	\$ 3,400.00	\$ 12.00	\$ 12,000.00
639-3-11	Electrical Service Disconnect (Breaker Box, Sheet T 6.2 of PBC StandarDS)	10	EA	F&I	\$ 1,192.50		\$ 885.00	\$ 8,850.00	\$ 1,500.00	\$ 15,000.00
639-3-60	Electrical Service Disconnect, Remove	3	EA	R	\$ 401.50		\$ 628.00	\$ 1,884.00	\$ 175.00	\$ 525.00
641-1-1	Guying Concrete Strain Poles (1-Guy Wire Per Pole)	1	EA	F&I	\$ 1,295.50		\$ 1,091.00	\$ 1,091.00	\$ 1,500.00	\$ 1,500.00
641-1-2	Guying Concrete Strain Poles (2-Guy Wire Per Pole)	1	EA	F&I	\$ 1,891.50		\$ 2,183.00	\$ 2,183.00	\$ 1,600.00	\$ 1,600.00
641-2-12-12	Prestressed Concrete Pole (12' Type P-II )	14	EA	F&I	\$ 2,125.00		\$ 1,250.00	\$ 17,500.00	\$ 3,000.00	\$ 42,000.00
641-2-15-44	Prestressed Concrete Pole (44' Type P-V)	4	EA	F&I	\$ 6,750.00		\$ 4,500.00	\$ 18,000.00	\$ 9,000.00	\$ 36,000.00
641-2-16-44	Prestressed Concrete Pole (44' Type P-VI)	4	EA	F&I	\$ 6,950.00		\$ 4,600.00	\$ 18,400.00	\$ 9,300.00	\$ 37,200.00
641-2-16-46	Prestressed Concrete Pole (46' Type P-VI)	8	EA	F&I	\$ 7,300.00		\$ 4,600.00	\$ 36,800.00	\$ 10,000.00	\$ 80,000.00
641-2-17-44	Prestressed Concrete Pole (44' Type P-VII)	8	EA	F&I	\$ 9,550.00		\$ 9,500.00	\$ 76,000.00	\$ 9,600.00	\$ 76,800.00
641-2-17-46	Prestressed Concrete Pole (46' Type P-VII)	8	EA	F&I	\$ 12,750.00		\$ 14,500.00	\$ 116,000.00	\$ 11,000.00	\$ 88,000.00
641-2-17-50	Prestressed Concrete Pole (50' Type P-VII)	4	EA	F&I	\$ 14,000.00		\$ 16,000.00	\$ 64,000.00	\$ 12,000.00	\$ 48,000.00
641-2-17-52	Prestressed Concrete Pole (52' Type P-VII)	4	EA	F&I	\$ 15,250.00		\$ 17,500.00	\$ 70,000.00	\$ 13,000.00	\$ 52,000.00
641-2-17-54	Prestressed Concrete Pole (54' Type P-VII)	2	EA	F&I	\$ 16,000.00		\$ 18,000.00	\$ 36,000.00	\$ 14,000.00	\$ 28,000.00
641-2-17-60	Prestressed Concrete Pole (60' Type P-VII)	2	EA	F&I	\$ 16,750.00		\$ 18,500.00	\$ 37,000.00	\$ 15,000.00	\$ 30,000.00
641-2-18-50	Prestressed Concrete Pole (50' Type P-VIII)	8	EA	F&I	\$ 18,000.00		\$ 20,000.00	\$ 160,000.00	\$ 16,000.00	\$ 128,000.00
641-2-18-52	Prestressed Concrete Pole (52' Type P-VIII)	22	EA	F&I	\$ 18,250.00		\$ 20,000.00	\$ 440,000.00	\$ 16,500.00	\$ 363,000.00
641-2-19-60	Prestressed Concrete Pole (60' Type P-Custom Design)	2	EA	F&I	\$ 19,750.00		\$ 21,500.00	\$ 43,000.00	\$ 18,000.00	\$ 36,000.00
641-2-30A	Prestressed Concrete Pole (Install Only - V, VI, VII, or VIII Up to 10' Deep)	2	EA	I	\$ 12,750.00		\$ 15,500.00	\$ 31,000.00	\$ 10,000.00	\$ 20,000.00
641-2-60	Concrete Pole Removal - Shallow (Includes Pole and Buried Attachments to A Depth of 4 Feet Below Existing Grade) Includes Disposal of Pole When instructed by Engineer	8	EA	R	\$ 2,000.00		\$ 2,500.00	\$ 20,000.00	\$ 1,500.00	\$ 12,000.00

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders	Engineer's Estimate	Gereco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
641-2-70	Concrete Pole Removal - Shallow (Includes Pole and Buried Attachments to A Depth of 4 Feet Below Existing Grade) Includes Disposal of Pole When instructed by Engineer	8	EA	R	\$ 2,210.00		\$ 2,500.00	\$ 20,000.00	\$ 1,920.00	\$ 15,360.00
641-2-80	Concrete Pole Removal - Deep (Includes Pole and Complete Removal of The Pole Foundation Depth of Up to 25 Feet) Includes Disposal of Pole When instructed by Engineer	6	EA	R	\$ 2,830.00		\$ 3,500.00	\$ 21,000.00	\$ 2,160.00	\$ 12,960.00
641-30B	Additional Depth for Concrete Pole Burial Deeper than 10 Feet	114	LF	F&I	\$ 300.00		\$ 350.00	\$ 39,900.00	\$ 250.00	\$ 28,500.00
641-99-1	Fdot Type 3/4" Eyebolt	1	EA	F&I	\$ 500.00		\$ 750.00	\$ 750.00	\$ 250.00	\$ 250.00
641-99-2	PBC Type 3/4" Eyebolt	1	EA	F&I	\$ 237.50		\$ 225.00	\$ 225.00	\$ 250.00	\$ 250.00
643-1-1	Guiying Wood Pole (1-Guy Wire Per Pole)	2	EA	F&I	\$ 1,100.00		\$ 1,100.00	\$ 2,200.00	\$ 1,100.00	\$ 2,200.00
643-1-2	Guiying Wood Pole (2-Guy Wire Per Pole)	2	EA	F&I	\$ 1,331.00		\$ 1,462.00	\$ 2,924.00	\$ 1,200.00	\$ 2,400.00
643-150	Wood Strain 50' Pole (Burried Up to 10' Deep) Direct Burial	2	EA	F&I	\$ 2,725.00		\$ 3,650.00	\$ 7,300.00	\$ 1,800.00	\$ 3,600.00
643-155	Wood Strain 55' Pole (Burried Up to 10' Deep) Direct Burial	2	EA	F&I	\$ 2,775.00		\$ 3,650.00	\$ 7,300.00	\$ 1,900.00	\$ 3,800.00
643-300	Wood Strain Pole ( Install Only, Burried Up to 10' Deep ) Direct Burial	2	EA	I	\$ 925.00		\$ 450.00	\$ 900.00	\$ 1,400.00	\$ 2,800.00
643-600	Remove Wood Strain Pole (Complete)	10	EA	R	\$ 585.00		\$ 450.00	\$ 4,500.00	\$ 720.00	\$ 7,200.00
646-1-11	Aluminum Signals Pole, Pedestal with Transformer Base (8 Feet Above Ground)	76	EA	F&I	\$ 2,540.00		\$ 1,580.00	\$ 120,080.00	\$ 3,500.00	\$ 266,000.00
646-1-12	Aluminum Signals Pole, Pedestrian Detector Post (5.5-Ft Above Ground) with Transformer Base	2	EA	F&I	\$ 1,300.00		\$ 1,100.00	\$ 2,200.00	\$ 1,500.00	\$ 3,000.00
646-1-12-A	Aluminum Signals Pole, Pedestrian Detector Post (5.5-Ft Above Ground) without Transformer Base	10	EA	F&I	\$ 1,050.00		\$ 1,100.00	\$ 11,000.00	\$ 1,000.00	\$ 10,000.00
649-22-1	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 30' (A30/S-P1/S)	10	EA	F&I	\$ 26,506.50		\$ 23,013.00	\$ 230,130.00	\$ 30,000.00	\$ 300,000.00
649-22-1L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 30' (A30/S-P1/S/L)	2	EA	F&I	\$ 30,598.50		\$ 26,197.00	\$ 52,394.00	\$ 35,000.00	\$ 70,000.00
649-22-3	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 40' (A40/S-P2/S)	6	EA	F&I	\$ 32,420.50		\$ 28,841.00	\$ 173,046.00	\$ 36,000.00	\$ 216,000.00
649-22-3L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 40' (A40/S-P2/S/L)	2	EA	F&I	\$ 38,376.00		\$ 34,752.00	\$ 69,504.00	\$ 42,000.00	\$ 84,000.00
649-22-6	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 50' (A50/S-P3/S)	10	EA	F&I	\$ 37,051.00		\$ 33,102.00	\$ 331,020.00	\$ 41,000.00	\$ 410,000.00
649-22-6L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 50' (A50/S-P3/S/L)	4	EA	F&I	\$ 42,856.00		\$ 39,712.00	\$ 158,848.00	\$ 46,000.00	\$ 184,000.00
649-22-10	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 60' (A60/S-P4/S)	10	EA	F&I	\$ 43,353.00		\$ 39,706.00	\$ 397,060.00	\$ 47,000.00	\$ 470,000.00
649-22-10-HD	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 60' Heavy Duty (A60/S-P4/S-HD)	6	EA	F&I	\$ 44,399.00		\$ 40,798.00	\$ 244,788.00	\$ 48,000.00	\$ 288,000.00
649-22-10L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 60' (A60/S-P4/S/L)	6	EA	F&I	\$ 48,663.00		\$ 44,326.00	\$ 265,956.00	\$ 53,000.00	\$ 318,000.00
649-22-10L-HD	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 60' Heavy Duty (A60/S-P4/S/L-HD)	4	EA	F&I	\$ 49,859.00		\$ 45,718.00	\$ 182,872.00	\$ 54,000.00	\$ 216,000.00

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders	Engineer's Estimate	Gereco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
649-22-15	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 70' (A70/S-P5/S)	4	EA	F&I	\$ 50,214.00		\$ 45,928.00	\$ 183,712.00	\$ 54,500.00	\$ 218,000.00
649-22-15-HD	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 70' Heavy Duty (A70/S-P5/S-HD)	4	EA	F&I	\$ 50,738.50		\$ 46,477.00	\$ 185,908.00	\$ 55,000.00	\$ 220,000.00
649-22-15L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 70' (A70/S-P5/S/L)	5	EA	F&I	\$ 53,322.50		\$ 48,645.00	\$ 243,225.00	\$ 58,000.00	\$ 290,000.00
649-22-15L-H	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 70' Heavy Duty (A70/S-P5/S/L-HD)	5	EA	F&I	\$ 54,537.00		\$ 50,074.00	\$ 250,370.00	\$ 59,000.00	\$ 295,000.00
649-22-21	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 78' (A78/S-P6/S)	4	EA	F&I	\$ 54,879.00		\$ 50,758.00	\$ 203,032.00	\$ 59,000.00	\$ 236,000.00
649-22-21-HD	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 78' Heavy Duty (A78/S-P6/S-HD)	4	EA	F&I	\$ 57,454.00		\$ 52,908.00	\$ 211,632.00	\$ 62,000.00	\$ 248,000.00
649-22-21L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 78' (A78/S-P6/S/L)	5	EA	F&I	\$ 63,061.00		\$ 58,122.00	\$ 290,610.00	\$ 68,000.00	\$ 340,000.00
649-22-21L-H	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 78' Heavy Duty (A78/S-P6/S/L-HD)	4	EA	F&I	\$ 64,485.50		\$ 59,971.00	\$ 239,884.00	\$ 69,000.00	\$ 276,000.00
649-2-12-40	Drilled Shaft Foundation Assembly, 12' Deep and 4.0' Diameter, Furnish and Install (DS/12/4.0)	10	EA	F&I	\$ 18,250.00		\$ 14,500.00	\$ 145,000.00	\$ 22,000.00	\$ 220,000.00
649-2-12-40-A	Additional Depth for Drilled Shaft Foundation Assembly, 12' Deep and 4.0' Diameter, Furnish and Install (DS/12/4.0)	5	LF	F&I	\$ 1,225.00		\$ 950.00	\$ 4,750.00	\$ 1,500.00	\$ 7,500.00
649-2-12-45	Drilled Shaft Foundation Assembly, 12' Deep and 4.5' Diameter, Furnish and Install (DS/12/4.5)	2	EA	F&I	\$ 18,500.00		\$ 14,500.00	\$ 29,000.00	\$ 22,500.00	\$ 45,000.00
649-2-12-45-A	Additional Depth for Drilled Shaft Foundation Assembly, 12' Deep and 4.5' Diameter, Furnish and Install (DS/12/4.5)	5	LF	F&I	\$ 1,375.00		\$ 950.00	\$ 4,750.00	\$ 1,800.00	\$ 9,000.00
649-2-14-45	Drilled Shaft Foundation Assembly, 14' Deep and 4.5' Diameter, Furnish and Install (DS/14/4.5)	4	EA	F&I	\$ 19,500.00		\$ 16,000.00	\$ 64,000.00	\$ 23,000.00	\$ 92,000.00
649-2-14-45-A	Additional Depth for Drilled Shaft Foundation Assembly, 14' Deep and 4.5' Diameter, Furnish and Install (DS/14/4.5)	5	LF	F&I	\$ 1,475.00		\$ 950.00	\$ 4,750.00	\$ 2,000.00	\$ 10,000.00
649-2-14-50	Drilled Shaft Foundation Assembly, 14' Deep and 5.0' Diameter, Furnish and Install (DS/14/5.0)	10	EA	F&I	\$ 20,000.00		\$ 16,000.00	\$ 160,000.00	\$ 24,000.00	\$ 240,000.00
649-2-14-50-A	Additional Depth for Drilled Shaft Foundation Assembly, 14' Deep and 5.0' Diameter, Furnish and Install (DS/14/5.0)	5	LF	F&I	\$ 1,575.00		\$ 950.00	\$ 4,750.00	\$ 2,200.00	\$ 11,000.00
649-2-16-45	Drilled Shaft Foundation Assembly, 16' Deep and 4.5' Diameter, Furnish and Install (DS/16/4.5)	8	EA	F&I	\$ 21,750.00		\$ 18,500.00	\$ 148,000.00	\$ 25,000.00	\$ 200,000.00
649-2-16-45-A	Additional Depth for Drilled Shaft Foundation Assembly, 16' Deep and 4.5' Diameter, Furnish and Install (DS/16/4.5)	11	LF	F&I	\$ 1,725.00		\$ 950.00	\$ 10,450.00	\$ 2,500.00	\$ 27,500.00
649-2-16-50	Drilled Shaft Foundation Assembly, 16' Deep and 5.0' Diameter, Furnish and Install (DS/16/5.0)	2	EA	F&I	\$ 22,250.00		\$ 18,500.00	\$ 37,000.00	\$ 26,000.00	\$ 52,000.00
649-2-16-50-A	Additional Depth for Drilled Shaft Foundation Assembly, 16' Deep and 5.0' Diameter, Furnish and Install (DS/16/5.0)	9	LF	F&I	\$ 1,775.00		\$ 950.00	\$ 8,550.00	\$ 2,600.00	\$ 23,400.00
649-2-18-50	Drilled Shaft Foundation Assembly, 18' Deep and 5.0' Diameter, Furnish and Install (DS/18/5.0)	4	EA	F&I	\$ 22,750.00		\$ 18,500.00	\$ 74,000.00	\$ 27,000.00	\$ 108,000.00
649-2-18-50-A	Additional Depth for Drilled Shaft Foundation Assembly, 18' Deep and 5.0' Diameter, Furnish and Install (DS/18/5.0)	5	LF	F&I	\$ 1,825.00		\$ 950.00	\$ 4,750.00	\$ 2,700.00	\$ 13,500.00



<b>BID TABULATIONS</b> <b>ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT</b> <b>PBC PROJECT #2022052</b>					<b>Average of Bid</b> <b>Items for All Bidders</b>		<b>Engineer's Estimate</b> <b>Gereco Traffic Controls, Inc</b>		<b>Horsepower Electric, Inc.</b>	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
649-2-20-50	Drilled Shaft Foundation Assembly, 20' Deep and 5.0' Diameter, Furnish and Install (DS/20/5.0 )	2	EA	F&I	\$ 24,000.00		\$ 20,000.00	\$ 40,000.00	\$ 28,000.00	\$ 56,000.00
649-2-20-50-A	Additional Depth for Drilled Shaft Foundation Assembly, 20' Deep and 5.0' Diameter, Furnish and Install (DS/20/5.0 )	2	LF	F&I	\$ 1,875.00		\$ 950.00	\$ 1,900.00	\$ 2,800.00	\$ 5,600.00
649-2-RA-11	Furnish and Install Additional Weight of Rebar for for Non-Standard Drill Shaft Foundation as Directed by the Engineer	50	LBS	F&I	\$ 56.00		\$ 100.00	\$ 5,000.00	\$ 12.00	\$ 600.00
649-23-11	Steel Mast Arm Assembly, Install to Existing Foundation	1	EA	I	\$ 6,375.00		\$ 4,250.00	\$ 4,250.00	\$ 8,500.00	\$ 8,500.00
649-23-21	Steel Mast Arm Assembly, Relocate to Existing Foundation	1	EA	R&I	\$ 7,750.00		\$ 5,500.00	\$ 5,500.00	\$ 10,000.00	\$ 10,000.00
649-25-03	Steel Mast Arm Assembly, Replace Arm on Existing Pole, 40'	1	EA	R&I	\$ 4,500.00		\$ 4,000.00	\$ 4,000.00	\$ 5,000.00	\$ 5,000.00
649-25-06	Steel Mast Arm Assembly, Replace Arm on Existing Pole, 50'	1	EA	R&I	\$ 5,500.00		\$ 4,000.00	\$ 4,000.00	\$ 7,000.00	\$ 7,000.00
649-25-10	Steel Mast Arm Assembly, Replace Arm on Existing Pole, 60'	1	EA	R&I	\$ 6,750.00		\$ 4,500.00	\$ 4,500.00	\$ 9,000.00	\$ 9,000.00
649-25-15	Steel Mast Arm Assembly, Replace Arm on Existing Pole, 70'	1	EA	R&I	\$ 7,750.00		\$ 4,500.00	\$ 4,500.00	\$ 11,000.00	\$ 11,000.00
649-25-21	Steel Mast Arm Assembly, Replace Arm on Existing Pole, 78'	1	EA	R&I	\$ 9,000.00		\$ 5,000.00	\$ 5,000.00	\$ 13,000.00	\$ 13,000.00
649-26-01	Steel Mast Arm Assembly, Remove, Pole Only-Entire Foundation Remains	1	EA	R	\$ 3,300.00		\$ 4,200.00	\$ 4,200.00	\$ 2,400.00	\$ 2,400.00
649-26-03	Steel Mast Arm Assembly, Remove, Shallow Foundation-Bolt on Attachment	1	EA	R	\$ 4,200.00		\$ 3,600.00	\$ 3,600.00	\$ 4,800.00	\$ 4,800.00
649-26-05	Steel Mast Arm Assembly, Remove, Deep Foundation-Bolt on Attachment	1	EA	R	\$ 8,000.00		\$ 8,500.00	\$ 8,500.00	\$ 7,500.00	\$ 7,500.00
649-26-07	Steel Mast Arm Assembly, Remove, Arm and Attachments; Pole Remains	1	EA	R	\$ 2,750.00		\$ 3,100.00	\$ 3,100.00	\$ 2,400.00	\$ 2,400.00
649-28-02	Painting New Mast Arm Assembly, Manufacturer Applied Powder Coating	1	EA	F&I	\$ 9,750.00		\$ 4,500.00	\$ 4,500.00	\$ 15,000.00	\$ 15,000.00
649-40-000-A	Mast Arm Repair (Shorten and Cap Upright)	1	EA	F&I	\$ 3,500.00		\$ 2,500.00	\$ 2,500.00	\$ 4,500.00	\$ 4,500.00
649-40-000-B	Mast Arm Repair (Shorten and Cap Arm)	1	EA	F&I	\$ 3,000.00		\$ 2,500.00	\$ 2,500.00	\$ 3,500.00	\$ 3,500.00
649-40-000-C	Raise Mast Arm Foundation (Raise Foundation)	1	EA	F&I	\$ 9,200.00		\$ 8,400.00	\$ 8,400.00	\$ 10,000.00	\$ 10,000.00
649-40-000-D	Mast Arm Nut Cover	2	EA	F&I	\$ 350.00		\$ 350.00	\$ 700.00	\$ 350.00	\$ 700.00
649-40-000-E	Additional Depth for Mast Arm Assembly Foundation (When Specified by Engineer)	2	LF	F&I	\$ 2,250.00		\$ 1,500.00	\$ 3,000.00	\$ 3,000.00	\$ 6,000.00
649-40-000-F	Repair Existing Damaged Mast Arm Foundation	1	EA	F&I	\$ 7,875.00		\$ 14,500.00	\$ 14,500.00	\$ 1,250.00	\$ 1,250.00
649-40-000-L	Mast Arm Terminal/ Hand Hole Cover	2	EA	F&I	\$ 475.00		\$ 600.00	\$ 1,200.00	\$ 350.00	\$ 700.00
649-40-000-M	Provide Telescopic Lift for Mast Arm Installation (Per Intersection Project)	2	EA	F&I	\$ 4,550.00		\$ 3,500.00	\$ 7,000.00	\$ 5,600.00	\$ 11,200.00
649-40-2	Steel Mast Arm Assembly, Replace Hand Hole Cover on Existing Pole	2	EA	R&I	\$ 350.00		\$ 600.00	\$ 1,200.00	\$ 100.00	\$ 200.00
649-40-3	Steel Mast Arm Assembly, Replace Pole Cap on Existing Pole	2	EA	R&I	\$ 387.50		\$ 600.00	\$ 1,200.00	\$ 175.00	\$ 350.00
649-99-1	Terminal Block in Mast Arm Upright	14	EA	F&I	\$ 325.00		\$ 150.00	\$ 2,100.00	\$ 500.00	\$ 7,000.00
649-99-2	Terminal Block in Mast Arm Upright-Remove Existing	14	EA	R	\$ 87.50		\$ 150.00	\$ 2,100.00	\$ 25.00	\$ 350.00
650-1-13	Traffic Signal Head Aluminum (3-Section, 1-Way) Includes Backplates	320	AS	F&I	\$ 1,450.00		\$ 1,100.00	\$ 352,000.00	\$ 1,800.00	\$ 576,000.00

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders	Engineer's Estimate	Gereco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
650-1-14	Traffic Signal Head Aluminum (4-Section, 1-Way) Includes Backplates	20	AS	F&I	\$ 1,635.00		\$ 1,350.00	\$ 27,000.00	\$ 1,920.00	\$ 38,400.00
650-1-15	Traffic Signal Head Aluminum (5-Section, 1-Way) Includes Backplates	30	AS	F&I	\$ 1,965.00		\$ 1,650.00	\$ 49,500.00	\$ 2,280.00	\$ 68,400.00
650-1-16	Traffic Signal Head Aluminum (3-Section, 2-Way) Includes Backplates	10	AS	F&I	\$ 2,050.00		\$ 2,000.00	\$ 20,000.00	\$ 2,100.00	\$ 21,000.00
650-1-24	Traffic Signal Head Polycarbonate with Aluminum top Section (4-Section, 1-Way) Includes Backplates	8	AS	F&I	\$ 1,575.00		\$ 1,350.00	\$ 10,800.00	\$ 1,800.00	\$ 14,400.00
650-1-25	Traffic Signal Head Polycarbonate with Aluminum top Section (5-Section, 1-Way) Includes Backplates	10	AS	F&I	\$ 1,925.00		\$ 1,650.00	\$ 16,500.00	\$ 2,200.00	\$ 22,000.00
650-1-33	Traffic Signal Head Polycarbonate (3-Section, 1-Way) Includes Backplates	10	AS	F&I	\$ 1,400.00		\$ 1,100.00	\$ 11,000.00	\$ 1,700.00	\$ 17,000.00
650-1-53	Traffic Signal Head (3-Section, 1-Way) Install Only	8	AS	I	\$ 925.00		\$ 850.00	\$ 6,800.00	\$ 1,000.00	\$ 8,000.00
650-1-54	Traffic Signal Head Aluminum (4-Section, 1-Way) Install Only	4	AS	I	\$ 950.00		\$ 850.00	\$ 3,400.00	\$ 1,050.00	\$ 4,200.00
650-1-55	Traffic Signal Head (5-Section, 1-Way) Install Only	1	AS	I	\$ 975.00		\$ 850.00	\$ 850.00	\$ 1,100.00	\$ 1,100.00
650-1-60	Traffic Signal Head Assembly, Removal	144	EA	R	\$ 47.50		\$ 45.00	\$ 6,480.00	\$ 50.00	\$ 7,200.00
653-191	Pedestrian Signal - Count Down (1-Way) Aluminum	94	EA	F&I	\$ 1,120.00		\$ 800.00	\$ 75,200.00	\$ 1,440.00	\$ 135,360.00
653-192	Pedestrian Signal - Count Down (2-Way) Aluminum	26	EA	F&I	\$ 1,677.50		\$ 1,315.00	\$ 34,190.00	\$ 2,040.00	\$ 53,040.00
653-1-60	Pedestrian Signal, Remove Ped Signal	20	EA	R	\$ 57.50		\$ 85.00	\$ 1,700.00	\$ 30.00	\$ 600.00
654-2-11	Rectangular Rapid Flashing Beacon, AC Powered, Single Direction	2	AS	F&I	\$ 9,325.00		\$ 8,650.00	\$ 17,300.00	\$ 10,000.00	\$ 20,000.00
654-2-12	Rectangular Rapid Flashing Beacon, AC Powered, Back to Back	2	AS	F&I	\$ 9,875.00		\$ 8,750.00	\$ 17,500.00	\$ 11,000.00	\$ 22,000.00
654-2-21	Rectangular Rapid Flashing Beacon, Solar Powered, Single Direction	2	AS	F&I	\$ 10,325.00		\$ 8,650.00	\$ 17,300.00	\$ 12,000.00	\$ 24,000.00
654-2-22	Rectangular Rapid Flashing Beacon, Solar Powered, Back to Back	3	AS	F&I	\$ 10,875.00		\$ 8,750.00	\$ 26,250.00	\$ 13,000.00	\$ 39,000.00
654-2-60	Rectangular Rapid Flashing Beacon, Remove Complete Sign Assembly	3	AS	R	\$ 925.00		\$ 1,250.00	\$ 3,750.00	\$ 600.00	\$ 1,800.00
660-2-102	Loop Assembly 6'X6' ( Type B )	20	EA	F&I	\$ 1,030.00		\$ 1,100.00	\$ 22,000.00	\$ 960.00	\$ 19,200.00
660-2-106-A	Loop Assembly ( Type F - 26' )	60	EA	F&I	\$ 1,900.00		\$ 2,000.00	\$ 120,000.00	\$ 1,800.00	\$ 108,000.00
660-2-106-B	Loop Assembly ( Type F - 46' )	48	EA	F&I	\$ 2,225.00		\$ 2,450.00	\$ 117,600.00	\$ 2,000.00	\$ 96,000.00
660-3-60	Vehicle Detection System-Microwave, Remove	1	EA	R	\$ 750.00		\$ 1,250.00	\$ 1,250.00	\$ 250.00	\$ 250.00
660-4-10-B1	Video Image Detection 1 - Camera System (Iteris) Complete	1	EA	F&I	\$ 16,500.00		\$ 13,000.00	\$ 13,000.00	\$ 20,000.00	\$ 20,000.00
660-4-10-B2	Video Image Detection 2 - Camera System (Iteris) Complete	1	EA	F&I	\$ 20,250.00		\$ 15,500.00	\$ 15,500.00	\$ 25,000.00	\$ 25,000.00
660-4-10-B3	Video Image Detection 3 - Camera System (Iteris) Complete	1	EA	F&I	\$ 30,200.00		\$ 28,000.00	\$ 28,000.00	\$ 32,400.00	\$ 32,400.00
660-4-10-B4	Video Image Detection 4 - Camera System (Iteris) Complete	2	EA	F&I	\$ 37,000.00		\$ 32,000.00	\$ 64,000.00	\$ 42,000.00	\$ 84,000.00
660-4-30-B1	Video Image Detection 1 - Camera System (Iteris)	6	EA	I	\$ 4,000.00		\$ 3,000.00	\$ 18,000.00	\$ 5,000.00	\$ 30,000.00
660-4-30-B2	Video Image Detection 2 - Camera System (Iteris)	2	EA	I	\$ 6,750.00		\$ 3,500.00	\$ 7,000.00	\$ 10,000.00	\$ 20,000.00

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders	Engineer's Estimate	Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
660-4-30-B3	Video Image Detection 3 - Camera System (Iteris)	2	EA	I	\$ 9,750.00		\$ 4,500.00	\$ 9,000.00	\$ 15,000.00	\$ 30,000.00
660-4-30-B4	Video Image Detection 4 - Camera System (Iteris)	2	EA	I	\$ 12,000.00		\$ 6,000.00	\$ 12,000.00	\$ 18,000.00	\$ 36,000.00
660-4-60	Vehicle Detection System-Video, Remove	4	EA	R	\$ 753.50		\$ 1,257.00	\$ 5,028.00	\$ 250.00	\$ 1,000.00
660-5-30	Wireless Magnetometer Vehicle Detector Assembly Complete Assembly	3	AS	I	\$ 3,000.00		\$ 3,500.00	\$ 10,500.00	\$ 2,500.00	\$ 7,500.00
660-6-121	Vehicle Detection System - AVI Bluetooth- Cabinet Processing Equipment	2	AS	F&I	\$ 5,332.50		\$ 8,165.00	\$ 16,330.00	\$ 2,500.00	\$ 5,000.00
660-6-122	Vehicle Detection System - AVI Bluetooth- Above Ground Equipment - Antennas	2	AS	F&I	\$ 5,615.00		\$ 2,730.00	\$ 5,460.00	\$ 8,500.00	\$ 17,000.00
665-1-11	Pedestrian Detector (Push Button)	20	EA	F&I	\$ 300.00		\$ 250.00	\$ 5,000.00	\$ 350.00	\$ 7,000.00
665-1-31	Pedestrian Detector (Push Button) - Install Only	120	EA	I	\$ 175.00		\$ 200.00	\$ 24,000.00	\$ 150.00	\$ 18,000.00
665-1-12-A	Pedestrian Detector- Accessible - Cabinet Equipment - Cabinet interface Hardware	2	EA	F&I	\$ 2,600.00		\$ 2,200.00	\$ 4,400.00	\$ 3,000.00	\$ 6,000.00
665-1-12-B	Pedestrian Detector Assembly- Accessible one-Crossing (2-Push Button Assemblies Per Crossing) Push Button Only	16	EA	F&I	\$ 1,025.00		\$ 250.00	\$ 4,000.00	\$ 1,800.00	\$ 28,800.00
670-5-110-A	Traffic Controller Assembly (Type 5) as Per Naztec	1	AS	F&I	\$ 34,500.00		\$ 31,000.00	\$ 31,000.00	\$ 38,000.00	\$ 38,000.00
670-5-110-B	Traffic Controller Assembly (Type 6) as Per Naztec	2	AS	F&I	\$ 36,750.00		\$ 34,500.00	\$ 69,000.00	\$ 39,000.00	\$ 78,000.00
670-5-110-C	Traffic Controller Assembly (Type 4) as Per Naztec	1	AS	F&I	\$ 27,500.00		\$ 22,000.00	\$ 22,000.00	\$ 33,000.00	\$ 33,000.00
670-5-110-D1	Traffic Controller Assembly (ATC) Dual Single Door as Per Naztec	1	AS	F&I	\$ 62,500.00		\$ 60,000.00	\$ 60,000.00	\$ 65,000.00	\$ 65,000.00
670-5-110-D2	Traffic Controller Assembly (ATC) Dual Double Door as Per Naztec	1	AS	F&I	\$ 65,750.00		\$ 61,500.00	\$ 61,500.00	\$ 70,000.00	\$ 70,000.00
670-5-310-A	Traffic Controller Assembly (Type 4, 5, 6 - Install Only)	12	AS	I	\$ 10,750.00		\$ 9,500.00	\$ 114,000.00	\$ 12,000.00	\$ 144,000.00
670-5-310-B	Traffic Controller Assembly (ATC Single Door - Install Only)	1	AS	I	\$ 12,250.00		\$ 9,500.00	\$ 9,500.00	\$ 15,000.00	\$ 15,000.00
670-5-310-C	Traffic Controller Assembly (ATC Double Door - Install Only)	1	AS	I	\$ 12,750.00		\$ 9,500.00	\$ 9,500.00	\$ 16,000.00	\$ 16,000.00
670-5-600	Traffic Controller Assembly, Remove Controller with Cabinet	2	AS	I	\$ 1,500.00		\$ 2,500.00	\$ 5,000.00	\$ 500.00	\$ 1,000.00
682-1-13	Its CCTV Camera, Dome Enclosure Non-Pressurized	1	EA	F&I	\$ 8,250.00		\$ 8,500.00	\$ 8,500.00	\$ 8,000.00	\$ 8,000.00
682-1-33	Its CCTV Camera, Dome Enclosure Non-Pressurized (Install Only)	1	EA	I	\$ 3,250.00		\$ 3,500.00	\$ 3,500.00	\$ 3,000.00	\$ 3,000.00
690-100	Remove Miscellaneous Signal Equipment	40	HR	R	\$ 125.00		\$ 100.00	\$ 4,000.00	\$ 150.00	\$ 6,000.00
690-15	Remove internally Illuminated Sign	8	EA	R	\$ 350.00		\$ 350.00	\$ 2,800.00	\$ 350.00	\$ 2,800.00
690-20	Signal Pedestrian Head Assembly, Removal	70	EA	R	\$ 225.00		\$ 350.00	\$ 24,500.00	\$ 100.00	\$ 7,000.00
690-31-1	Signal Pedestal, Remove	16	EA	R	\$ 250.00		\$ 350.00	\$ 5,600.00	\$ 150.00	\$ 2,400.00
690-34-2C	Remove Pole Wood	8	EA	R	\$ 705.00		\$ 1,160.00	\$ 9,280.00	\$ 250.00	\$ 2,000.00
690-50-0	Remove Controller Assembly Complete with Foundation - Includes Delivery of Removed Controller Equipment	2	EA	R	\$ 1,625.00		\$ 2,500.00	\$ 5,000.00	\$ 750.00	\$ 1,500.00
690-50-1	Remove Controller Assembly, Leave Foundation in Place - Includes Delivery of Removed Equipment	2	EA	R	\$ 1,425.00		\$ 2,350.00	\$ 4,700.00	\$ 500.00	\$ 1,000.00

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders	Engineer's Estimate	Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
690-70	Remove Pedestrian Detector Assembly	96	EA	R	\$ 20.00		\$ 15.00	\$ 1,440.00	\$ 25.00	\$ 2,400.00
690-80	Remove Span Wire Assembly	18	PI	R	\$ 675.00		\$ 350.00	\$ 6,300.00	\$ 1,000.00	\$ 18,000.00
690-90	Remove Cabling and Conduit	824	LF	R	\$ 0.10		\$ 0.10	\$ 82.40	\$ 0.10	\$ 82.40
690-90-1	Remove Cable, Underground	1800	LF	R	\$ 0.10		\$ 0.10	\$ 180.00	\$ 0.10	\$ 180.00
690-91	Remove Signal interconnect Cable	200	LF	R	\$ 0.10		\$ 0.10	\$ 20.00	\$ 0.10	\$ 20.00
690-92	Remove Existing Signal interconnect Cable Aerial (including Spanwire)	100	LF	R	\$ 0.55		\$ 0.10	\$ 10.00	\$ 1.00	\$ 100.00
690-93	Remove Small Pull Box - Up to 17 x 30	10	EA	R	\$ 375.00		\$ 150.00	\$ 1,500.00	\$ 600.00	\$ 6,000.00
690-94	Remove Large Pull Box - Up to 30 x 60	2	EA	R	\$ 520.00		\$ 200.00	\$ 400.00	\$ 840.00	\$ 1,680.00
700-12-12	Ground Mount AC-Powered Sign Beacon (Two Beacons)-including School Zone Flashers	2	AS	F&I	\$ 10,750.00		\$ 9,500.00	\$ 19,000.00	\$ 12,000.00	\$ 24,000.00
700-12-22	Ground Mount Solar-Powered Sign Beacon (Two Beacons) - including School Zone Flashers	3	AS	F&I	\$ 12,250.00		\$ 9,500.00	\$ 28,500.00	\$ 15,000.00	\$ 45,000.00
700-12-32-1	Overhead Mount AC-Powered Sign Beacon (Two Beacons) - including School Zone Flashers	2	AS	F&I	\$ 9,750.00		\$ 9,500.00	\$ 19,000.00	\$ 10,000.00	\$ 20,000.00
700-12-32-2	Overhead Mount Solar-Powered Sign Beacon (Two Beacons) - including School Zone Flashers	2	AS	F&I	\$ 10,750.00		\$ 9,500.00	\$ 19,000.00	\$ 12,000.00	\$ 24,000.00
700-3-2-04	Overhead Sign Panel - 31 to 50 Square Feet	10	EA	F&I	\$ 1,675.00		\$ 1,350.00	\$ 13,500.00	\$ 2,000.00	\$ 20,000.00
700-5-21	Internally Illuminated Sign (6') Fluorescent	4	EA	F&I	\$ 2,725.00		\$ 1,850.00	\$ 7,400.00	\$ 3,600.00	\$ 14,400.00
700-5-22	Internally Illuminated Sign (8') Fluorescent	8	EA	F&I	\$ 3,175.00		\$ 2,150.00	\$ 17,200.00	\$ 4,200.00	\$ 33,600.00
700-5-41	Internally Illuminated Sign (6') Install Only	6	EA	I	\$ 1,000.00		\$ 500.00	\$ 3,000.00	\$ 1,500.00	\$ 9,000.00
700-5-42	Internally Illuminated Sign (8') Install Only	52	EA	I	\$ 1,150.00		\$ 500.00	\$ 26,000.00	\$ 1,800.00	\$ 93,600.00
700-6-13	LED Blank-Out Sign (30" x 30")	1	EA	F&I	\$ 5,500.00		\$ 4,500.00	\$ 4,500.00	\$ 6,500.00	\$ 6,500.00
700-6-21	Highlighted Sign Ground Mounted (Solar Powered) - Up to 12 Sq Ft	2	EA	F&I	\$ 6,000.00		\$ 6,500.00	\$ 13,000.00	\$ 5,500.00	\$ 11,000.00
700-6-22	Highlighted Sign Ground Mounted (Solar Powered) - 12-20 Sq Ft	2	EA	F&I	\$ 7,000.00		\$ 6,500.00	\$ 13,000.00	\$ 7,500.00	\$ 15,000.00
715-11-500	Luminaire, Remove	5	EA	R	\$ 725.00		\$ 1,300.00	\$ 6,500.00	\$ 150.00	\$ 750.00
715-1-12	Conductor (No. 8 to No. 6)	1500	LF	F&I	\$ 3.55		\$ 3.50	\$ 5,250.00	\$ 3.60	\$ 5,400.00
715-1-13	Conductor (No. 4 to No. 2)	100	LF	F&I	\$ 4.40		\$ 3.80	\$ 380.00	\$ 5.00	\$ 500.00
715-21-2	Lighting Retrofits, LED Retrofit Kit for Existing Luminaires	54	EA	F&I	\$ 1,425.00		\$ 1,350.00	\$ 72,900.00	\$ 1,500.00	\$ 81,000.00
715-4-13	Standard Pole, Standard Foundation (40' Mounting Height)	1	EA	F&I	\$ 8,250.00		\$ 6,500.00	\$ 6,500.00	\$ 10,000.00	\$ 10,000.00
715-5-11(A)	Luminaire & Bracket Arm Aluminum (8')	30	EA	F&I	\$ 1,425.00		\$ 1,350.00	\$ 40,500.00	\$ 1,500.00	\$ 45,000.00
715-5-11(B)	Luminaire & Bracket Arm Aluminum (12' w/36"Rise)	2	EA	F&I	\$ 1,675.00		\$ 1,350.00	\$ 2,700.00	\$ 2,000.00	\$ 4,000.00

<b>BID TABULATIONS</b> <b>ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT</b> <b>PBC PROJECT #2022052</b>					Average of Bid Items for All Bidders	Engineer's Estimate	Gereleo Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
715-5-11(C)	Luminaire & Bracket Arm Aluminum (15' w/36"Rise)	1	EA	F&I	\$ 1,925.00		\$ 1,350.00	\$ 1,350.00	\$ 2,500.00	\$ 2,500.00
715-5-31-A	Luminaire & Bracket Arm Aluminum (8' w/36"Rise)-Install Only	1	EA	I	\$ 525.00		\$ 550.00	\$ 550.00	\$ 500.00	\$ 500.00
715-5-31-B	Luminaire & Bracket Arm Aluminum (12' w/36"Rise)-Install Only	1	EA	I	\$ 575.00		\$ 550.00	\$ 550.00	\$ 600.00	\$ 600.00
715-5-31-B1	Luminaire & Bracket Arm Aluminum (12' w/84"Rise) -Install Only	3	EA	I	\$ 625.00		\$ 550.00	\$ 1,650.00	\$ 700.00	\$ 2,100.00
715-5-31-C	Luminaire & Bracket Arm Aluminum (15' w/36"Rise)-Install Only	3	EA	I	\$ 675.00		\$ 550.00	\$ 1,650.00	\$ 800.00	\$ 2,400.00
715-5-31-C1	Luminaire & Bracket Arm Aluminum (15' w/84"Rise)-Install Only	2	EA	I	\$ 725.00		\$ 550.00	\$ 1,100.00	\$ 900.00	\$ 1,800.00
715-5-32	Luminaire and Bracket Arm - Galv Steel	10	EA	F&I	\$ 2,425.00		\$ 1,350.00	\$ 13,500.00	\$ 3,500.00	\$ 35,000.00
715-5-51	Luminaire and Bracket Arm - Remove	10	EA	R	\$ 325.00		\$ 550.00	\$ 5,500.00	\$ 100.00	\$ 1,000.00
715-11-211-L1	Furnish and Install 175 Watt LED Cobrahead Luminaire	50	EA	F&I	\$ 925.00		\$ 650.00	\$ 32,500.00	\$ 1,200.00	\$ 60,000.00
715-11-211-L2	Furnish and Install 263 Watt Cobrahead LED Luminaire	400	EA	F&I	\$ 950.00		\$ 650.00	\$ 260,000.00	\$ 1,250.00	\$ 500,000.00
715-11-500	Remove Luminaire Roadway (All Types)	5	EA	R	\$ 150.00		\$ 200.00	\$ 1,000.00	\$ 100.00	\$ 500.00
<b>TOTAL BID</b>							\$	<b>10,502,074.40</b>	\$	<b>13,404,295.00</b>

**THE COUNTY DOES NOT GUARANTEE THE ACCURACY OF THE FORMULAS AND EXTENSIONS USED IN THIS SPREADSHEET.**

**THE ITEMS AND QUANTITIES ABOVE, SHALL GOVERN OVER THE PLANS.**

**PAY ITEM FOOTNOTES IN CONSTRUCTION PLANS SHALL ALSO BE INCLUDED IN ITEM UNIT PRICE.**

<b>Note #</b>	<b>PAY ITEM FOOTNOTES</b>	
1	All costs for Maintenance of Traffic (MOT) and mobilization not included in items 102-1-A through 102-99 per the special bid item notes in the TSP's shall be considered incidental to, and shall be included in, unit prices for the pay items.	
2	All items shall include cost to furnish and install unless otherwise noted.	
3	Mobilization: Includes NPDES Erosion Control Measures.	
4	Maintenance of Traffic: Includes all provision and maintenance of necessary signs, advanced warning, variable message boards, all detour signs and barricades, and any railroad MOT required for the duration of the project. MOT shall include the cost of any temporary pavement, temporary concrete barriers, temporary wire faced wall, etc. as required.	
5	Curb and gutter shall be incidental when related to ADA ramp applications.	
6	Clearing and grubbing to include all necessary curb and gutter and sidewalk removal.	
7	Definitions:	
	LF - Linear Feet	ED - Each Day
	SF - Square Feet	WK - Per Week
	SY - Square Yard	LS - Lump Sum (Complete)
	AS - Assembly	F&I - Furnish & Install
	PI - Per Intersection	F - Furnish Only
	EA - Each	I - Install Only
	HR - Per Hour	R - Remove
	MH - Man Hour	

Bids as read at opening on March 15, 2022, 2:00 PM

All bids subject to OEBO compliance and Board Approval.

Prepared by: Geraldine Lazzarino-Kelly, Technical Assistant 1

Checked by: Holly B. Knight, P.E., Contracts Section Manager

Contract Time is 3 Years