

**TASK ORDER No. 4**

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2015

**CITY PROJECT #12124**

**CALVIN, GIORDANO & ASSOCIATES PROJECT #15-7695**

**FORT LAUDERDALE PUBLIC WORKS DEPARTMENT**

**Central Beach Alliance Pump Station Replacement (D-41)**

**PROFESSIONAL SERVICES**

This Task Order is pursuant to the Continuing Services Contract Agreement (No. 626-10881-4) between the City of Fort Lauderdale, a Florida municipality, ("CITY") and Calvin, Giordano & Associates, Inc., ("CONSULTANT"), a Florida corporation, for civil engineering consultant services in accordance with the terms of the agreement for professional services dated November 6, 2012 between CITY and CONSULTANT ("MASTER AGREEMENT") and extended by City Commission on October 21<sup>st</sup>, 2014 to November 5, 2015.

**PROJECT BACKGROUND**

Sanitary Sewer Pump Station D-41 is located on the west side of N. Birch Road between Riomar Street and Bayshore Drive in Fort Lauderdale. Pump Station D-41 discharges into a sanitary manhole in the D-40 basin. The following concerns have been provided by the City of Fort Lauderdale Staff:

- a. The existing Pump Station D-41 consist of a dry pump pit style configuration that is approaching the end of its design life and is need of improvements. The Pump Station D-41 will utilize a submersible pump style configuration that meets the new proposed standards.
- b. Future developments in the area will require the new pump station to have a greater capacity.
- c. A new location for Pump Station D-41 is anticipated in order to accommodate the new structures as well as be accessible for maintenance. The new design will incorporate measures to reduce the potential for stormwater inflow through the access hatch to the wet well.
- d. Pump Station D-41 and the associated sanitary sewer collection system experiences surcharged conditions.
- e. Impacts of construction to the residents and local businesses needs to be considered. Construction staging and impacts to local traffic needs to be considered in the construction documents.
- f. Temporary bypass pumping during construction must be determined in the construction documents and approved by the CITY's Staff.
- g. The rise in sea level needs to be taken into account for the design.

## **PROJECT DESCRIPTION**

This project includes the replacement of sanitary sewer Pump Station D-41 and redirection of a portion of the sanitary sewer collection system. The attached Exhibit A provides the project location. The proposed project area for the new Pump Station D-41 location is located at the intersection of Bayshore Drive and Antioch Avenue.

This task order (TO) will include an analysis of the existing sanitary sewer average and peak flow rate into the facility and also the existing force main connection pressure. In addition, the concerns from the City of Fort Lauderdale Staff stated above will be addressed.

## **SCOPE OF SERVICES AND DELIVERABLES**

With approval of this Task Order, CONSULTANT shall provide professional services described in the tasks below:

### **Task 1 – Survey:**

CONSULTANT shall perform a topographic survey of the existing pump station area on N. Birch Road and the proposed new location at the intersection of Antioch Avenue and Bayshore Drive. The topographic survey will include portions of Bayshore Drive, Antioch Avenue, Orton Avenue, Riomar Street, Birch Road and Viramar Street that are within the project limits. CONSULTANT will locate all above ground improvements within the right-of-way corridors with horizontal locations and vertical elevations being provided for such items as sidewalks, edge of pavement, swales, parking areas, parking striping and visible above ground utilities. Visible above ground utilities refer to the visible structures (e.g., manholes, valve boxes, inlets, etc.) typically associated with storm drainage, sanitary sewer, potable water, electric, gas, telephone and cable television. Cross section elevations will be obtained at 25 ft. intervals together with high and low elevations and any other significant grade changes.

CONSULTANT will perform an as-built of all drainage and sewer structures within the project limits. As-built information will include the size and material of pipe with rim, invert and bottom of box elevations within the structures. The information obtained on the existing Pump Station D-41 will include the wetwell rim and invert elevations together with the elevations of the existing above ground structure. All survey work shall be performed in accordance with the Minimum Technical Standards as set forth by the Board of Surveyors and Mappers pursuant to Rule 5J-17 of the Florida Administrative Code, pursuant to Section 472.027 Florida Statutes.

**Deliverables:**                    **Survey Base File (AutoCAD 2007 or later)**

**Not to Exceed:**                **\$19,760.00**

### **Task 2 – Preliminary Design:**

CONSULTANT shall prepare an evaluation of the existing operating conditions for Pump Station D-41. The study shall include the installation and recordation of the existing force main pressure and observation of the historic pump run times in order to estimate the flow rate pumped by the existing Pump Station D-41. In addition, the CONSULTANT shall execute a contract with an environmental service sub-consultant to provide flow rate monitoring of the existing sanitary sewer collection system for better understanding of the required future capacity of the new Pump Station D-41.

CONSULTANT shall prepare a new sanitary system redirection for the new pump station location. The new force main shall be designed to connect to the Pump Station D-31 force main. Pressure data shall

be provided by the CITY. CONSULTANT shall be responsible for any additional data that is needed. CITY has provided contact information for the developer in order to acquire conceptual plans for the new layout.

CONSULTANT shall prepare a preliminary design for the replacement design for Pump Station D-41. The preliminary design shall include replacement of the existing structures, pumps, piping, fittings access hatches and doors. In addition, the preliminary design shall include the redirection of the existing sanitary sewer collection system to the new location of Pump Station D-41.

CONSULTANT shall prepare a new design for the electrical and instrumentation system.

CONSULTANT shall contract with a geotechnical sub-consultant for the new Pump Station D-41 location. The sub-consultant will provide general recommendations for the new structure with respect to soil conditions.

CONSULTANT shall contract with a subsurface utility locate company to perform an investigation of the subsurface utilities within the project area in locations determined to have a high probability of potential utility conflicts. The investigation shall include information on up to ten (10) test holes in locations determined by the CONSULTANT to be necessary. The investigation will not be performed on utilities that are deeper than six (6) feet below the existing land surface.

CONSULTANT shall provide the CITY with the preliminary design plans and calculations for review prior to commencement of the next task. It is anticipated that a meeting will be held with the CITY within 14 working days of receiving the plans and calculations for review of comments.

The following meetings are included in this task:

- o One (1) project kick-off meeting with the CITY (to be held upon receipt of the executed proposal)
- o One (1) meeting with the CITY to review the preliminary design plans and calculations.

**Deliverables:**                    **Geotechnical Report, Environmental Report, and 60% Plans (AutoCAD 2007 or later)**

**Not to Exceed:**                **\$53,875.00**

**Task 3 – Permitting:**

CONSULTANT shall prepare applications and design information as required and apply for approval from the Broward County Environmental Licensing and Building Permitting Division. This task includes one (1) pre-application meeting and up to two (2) re-submissions of revised design information in response to request for additional information. All permit application fees will be provided by the CITY upon written request from the CONSULTANT.

The following meetings are included in this task:

One (1) pre-application meeting.

**Deliverables:**                    **Permit Submittals Leading to Approved Permits**

**Not to Exceed:**                **\$7,777.00**

**Task 4 – Final Design:**

CONSULTANT shall incorporate into the design all revisions required by the governmental agencies in order to receive the permit approval as well as CITY staff comments.

CONSULTANT shall prepare the bid documents that will include the front end contract documents that have been provided by the CITY, and the technical specifications. Digital files shall also be provided.

CONSULTANT shall prepare an Engineer's Opinion of Probable Cost for the final design.

CONSULTANT shall provide the CITY with the final design plans and specifications for review prior to commencement of the next task. It is anticipated that a meeting will be held with the CITY within 14 working days of receiving the plans and specifications for review of comments.

CONSULTANT shall be the Engineer of Record for this design.

The following meetings are included in this task:

- o Two (2) meetings with the CITY to review the final design plans and specifications.

**Deliverables: 100% Plans (AutoCAD 2007 or later) and Engineer's Opinion of Probable Cost**

**Not to Exceed: \$28,570.00**

**Task 5 – Bidding Assistance:**

CONSULTANT shall assist the CITY in preparing the bid package for solicitation. Specifications shall be provided by the CITY and modified by the CONSULTANT as necessary to reflect the details specific to the project.

CONSULTANT shall respond to Request for Information (RFI) from prospective bidders.

CONSULTANT shall provide supplement information to prospective bidders as necessary, and issue addenda during the bid process through the CITY's procurement department (BidSync).

Copies and distribution of bid documents is not included in the CONSULTANT's scope of work.

The following meetings are included in this task:

- o One (1) pre-bid meeting with CITY staff and prospective bidders.
- o One (1) bid opening meeting with CITY and prospective bidders.

**Deliverables: Bid Plans, Bid Specifications, and Supplements to Bid Package**

**Not to Exceed: \$5,110.00**

**Task 6 – Construction Phase Services:**

The following scope is based on 10 months of Construction / Contract Time and on total hours specified within. The scope of services to be provided is for Resident Project Representative (RPR) Construction Observation (inspection and testing) services to include limited / periodic observation services for the City of Fort Lauderdale Sewer PS D-41 Replacement & Sanitary Sewer Redirect project. Any additional time beyond this will require an approved agreement.

- CONSULTANT shall provide assistance to the awarded CONTRACTOR with any design related questions and prepare Contract Documents for use by the CONTRACTOR and CITY during building permitting and construction.
  - CONSULTANT shall attend monthly construction progress meetings (up to 10 meetings) with regards to project construction.
  - Review and approval of shop drawings and other data which the Contractor is required to submit for conformance with the design criteria.
  - Respond to Contractor's Request for Information (RFI) regarding design documents.
  - Attend on-site meetings during construction. A total of five (5) meetings are included in this task. These meetings shall be requested and authorized by the CITY.
1. The basis and understanding of the scope of services to be provided / performed by the CGA RPR in conjunction with this project are inspection / observations services required for the certification of the project to the permitting and regulatory agencies. The City of Fort Lauderdale shall furnish and assign a Construction Project Administrator and Project Inspector(s) to perform routine and periodic inspections during the course of the project construction activities.
  2. CGA shall provide a Senior Inspector (RPR) to perform the limited observations / inspections with a maximum budget of 300 hours of effort, and a Construction Manager for 40 hours of effort. These services shall be restricted to the following conditions:
    - The City of Fort Lauderdale Construction Manager and / or the CGA Engineer of Record (EOR) shall schedule all observations of the CGA RPR (RPR) and or Construction Manager.
    - The minimum time to be charged for each observation / inspection shall be two and a half (2.5) hours.
    - All RPR inspections shall occur in the presence of a City of Fort Lauderdale representative unless otherwise agreed to.
    - RPR shall confirm material and components to be incorporated into the work are compliant with approved materials and shop drawings.
    - RPR shall perform observations and recordation of required testing which may including pressure testing (force main and tapping saddle), force main flushing, gravity sewer lamping, manhole infiltration / exfiltration testing, pump station start-up, and existing force main grouting / abandonment.
    - RPR shall attend and assist in performing inspections for Substantial and Final Completion to determine, in general, if the project has been completed in substantial conformance with the Contract Documents. RPR shall assist in the developing and preparation of punch lists from Substantial and Final Completion inspections.
    - RPR shall prepare and report observed or identified deficiencies, unsatisfactory work, or work which does not conform to the Contract Documents. Failed inspections shall be reimbursed by the City.
    - RPR may accompany visitors, approved by the CITY, through the project area as requested by the City.
    - RPR shall not be responsible for determination of quantities for payment application review / processing.
    - RPR shall not be responsible for MOT review, or Contractor's safety program / adherence.

- RPR shall not be responsible for project NPDES compliance.

The City of Fort Lauderdale Construction Manager shall coordinate or review as-builts / Record Drawings on a monthly basis as a prerequisite of the Contractor's payment application, and at project completion.

**Deliverables: Hourly Services**

**Not to Exceed: \$58,440.00**

**Task 7 – Project Closeout:**

- CONSULTANT will be present for the pump station startup to verify that it will be capable of performing per the required design and prepare a recommendation or project acceptance for the CITY.
- CONSULTANT shall be Engineer-of-Record for this project.
- CONSULTANT shall participate in final punch list and final walk-thru.
- CONSULTANT shall coordinate and process closeout services to all relevant permitting agencies once satisfactory as-builts have been provided by the CONTRACTOR. This does not include preparation of survey information for as-builts. All permit closeout fees will be provided by the CITY upon written request from the CONSULTANT.

**Deliverables: Certified As-Builts (based on provided as-built survey), Permit Close-Out Confirmations**

**Not to Exceed: \$6,460.00**

**PROJECT ASSUMPTIONS**

Specific assumptions for the project:

- CONSULTANT shall review all City, County, and State records, data and/or other documentation available to review land ownership, easements, or other restrictions that may affect the project and the surveying deliverables of this task order.
- CONSULTANT shall use survey equipment and data collection systems capable of delivering complete surveys and task order deliverables as stated in the scope of work section of this task order.
- CONSULTANT shall prepare a design that complies with all applicable regulatory requirements.

**CITY'S RESPONSIBILITIES**

- CITY shall provide existing survey data, project records, drawings, reports, studies, etc. in digital format.
- CITY shall provide the capacity of the existing pumps
- CITY shall provide the AutoCAD files for the current design.
- CITY shall provide supporting data in digital format or hard copies, existing force main pressure, and run times for the existing pumps.
- CITY shall provide the front end contract documents for the specifications booklet.

- CITY shall provide their standard specifications for sewer pump stations.
- CITY shall provide the water, sewer and drainage as-builts and atlas information for this portion of the CITY's service area.
- The CITY's project manager, or a designated representative, will coordinate the project for the CITY.
- CITY shall review and provide comments on design deliverables within 14 working days.

### **ADDITIONAL SERVICES**

If authorized in writing by the CITY as an amendment to this Task Order, the CONSULTANT shall furnish, or obtain from others, Additional Services of the types as listed in Article 5.3 of the Master Agreement. The CITY, as indicated in the Master Agreement, will pay for these services.

No additional services shall be performed by the CONSULTANT without prior written authorization by the CITY and an Amendment for the Task Order or an additional Task Order.

### **PERFORMANCE SCHEDULE**

CONSULTANT shall commence services within 10 working days of written Notice to Proceed. CONSULTANT shall prepare and provide a schedule in Microsoft Project format for all deliverables and milestones.

### **METHOD OF COMPENSATION**

The services performed shall be billed on a monthly basis commensurate with extent of task completed. Reimbursable expenses associated with these services are not included in the fees and will be itemized separately, subject to an established Not-to-Exceed limit. A fee schedule is included on Exhibit B.

### **CITY CONTACTS**

Requests for payments should be directed to City of Fort Lauderdale Accounts Payable via e-mail to [AcctsPayable@FortLauderdale.gov](mailto:AcctsPayable@FortLauderdale.gov). All other correspondence and submittals should be directed to the attention of Jill Prizlee, PE, Project Engineer, at the address shown below. **Please be sure that all correspondence refers to the City project number and title as stated above.**

Jill Prizlee, PE  
 Project Manager II  
 City of Fort Lauderdale  
 City Hall, 4<sup>th</sup> Floor Engineering  
 100 North Andrews Avenue  
 Fort Lauderdale, FL 33301  
 954-828-5962  
[jillp@fortlauderdale.gov](mailto:jillp@fortlauderdale.gov)

Pedram Zohrevand, P.E.  
 Assistant City Engineer  
 City of Fort Lauderdale  
 City Hall, 4<sup>th</sup> Floor Engineering  
 100 North Andrews Avenue  
 Fort Lauderdale, FL 33301  
[PZohrevand@fortlauderdale.gov](mailto:PZohrevand@fortlauderdale.gov)  
 (954) 828-6134

## CONSULTANT CONTACTS

Calvin, Giordano & Associates, Inc.  
Robert McSweeney, P.E.  
Senior Project Manager  
1800 Eller Drive, Suite 600  
Fort Lauderdale, FL 33316  
Phone: 954-921-7781  
Email: [bmcsweeney@cgasolutions.com](mailto:bmcsweeney@cgasolutions.com)

Calvin, Giordano & Associates, Inc.  
David Stambaugh, P.E.  
Senior Project Manager  
1800 Eller Drive, Suite 600  
Fort Lauderdale, FL 33316  
Phone: 954-921-7781  
Email: [dstambaugh@cgasolutions.com](mailto:dstambaugh@cgasolutions.com)



**CITY**

IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first above written.

CITY OF FORT LAUDERDALE, a municipal corporation of the State of Florida:

By \_\_\_\_\_  
LEE R. FELDMAN, City Manager

(CORPORATE SEAL)

ATTEST:

\_\_\_\_\_  
JONDA K. JOSEPH, City Clerk

Approved as to form:

\_\_\_\_\_  
RHONDA MONTOYA HASAN  
Assistant City Attorney

**CONSULTANT**

WITNESSES:

*Ei.*  
Signature  
Elizabethn Prat  
Print Name

CALVIN, GIORDANO & ASSOCIATES, INC., a Florida corporation

By: *Shelley Eich*  
Shelley Eichner, AICP  
Senior Vice President

(CORPORATE SEAL)

STATE OF FLORIDA:  
COUNTY OF BROWARD:

Shelley Eichner as Senior Vice President of CALVIN, GIORDANO & ASSOCIATES, INC., a Florida corporation, acknowledged the foregoing instrument before me this 2 day of July, 2015, on behalf of the corporation. They are personally known to me and did not take an oath.

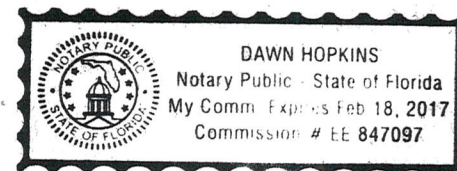
(SEAL)

*Dawn Hopkins*  
Notary Public, State of Florida  
(Signature of Notary taking Acknowledgement)

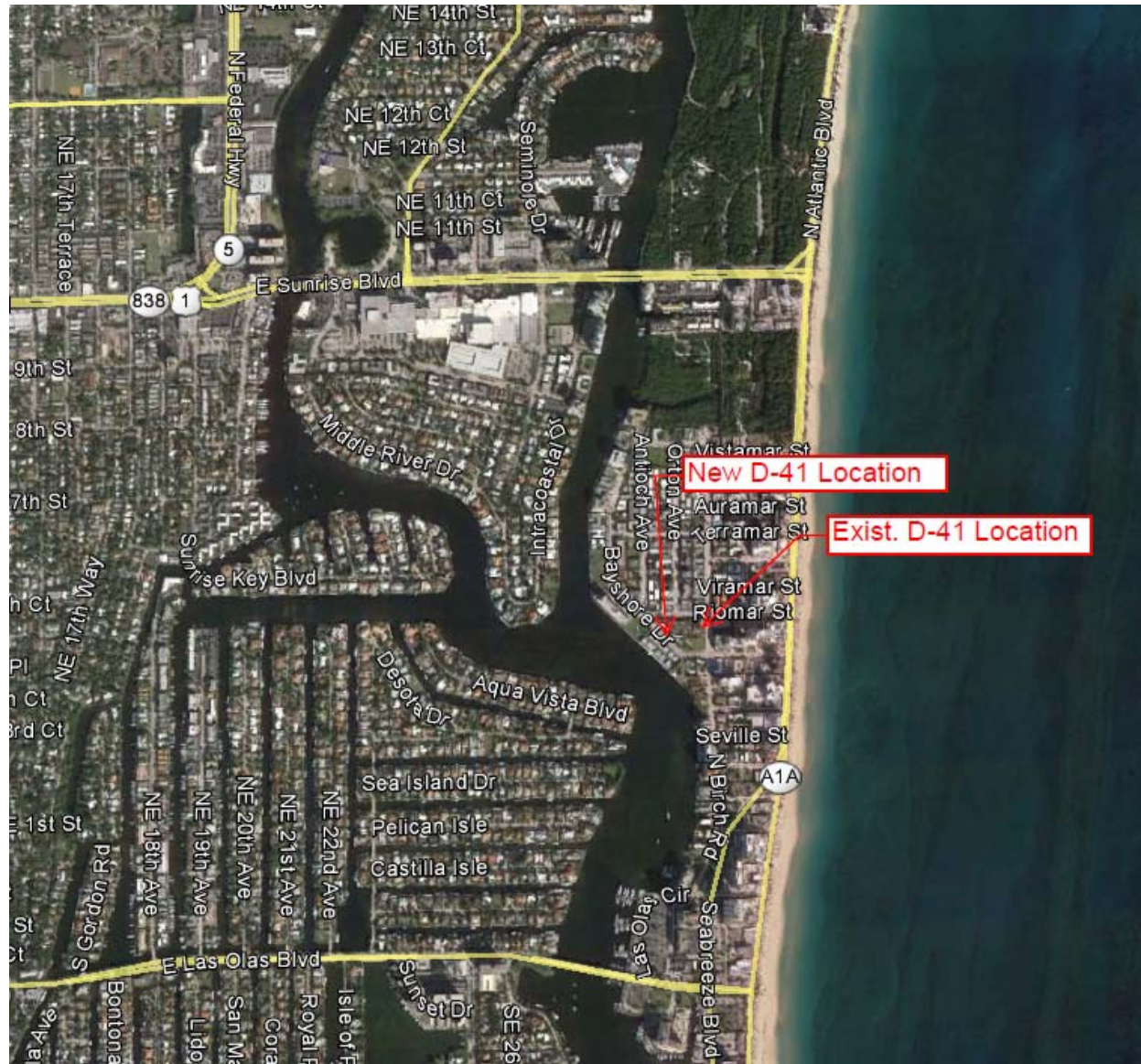
Dawn Hopkins  
Name of Notary Typed, Printed or Stamped

2/18/17  
My Commission Expires

847097  
Commission No.



## Exhibit A Location Map



## Exhibit B

Labor Category		Engineering										Construction Administration						Survey						Sub-Consultants			Total Hours (CGA)	Labor Cost			
		Associate (IV)		Director (V)		Project Manager (IV)		Project Engineer (III)		Senior CADD Tech Manager		Construction Management		Construction Manager		Senior Inspector		Clerical		3 Person Survey Crew		Registered Surveyor		CADD Technician		Environmental Services			Geotechnical Engineering	Subsurface Utility Locates	
Percent Utilization (rounded)		0.2%		0.8%		30.0%		27.8%		2.6%		0.0%		2.2%		15.8%		0.1%		6.9%		1.3%		2.7%		5.6%	1.1%	2.8%			
Labor Rate (hourly)		\$176		\$165		\$145		\$125		\$90		\$135		\$100		\$90		\$50		\$130		\$130		\$65		LUMP SUM	LUMP SUM	LUMP SUM			
Task Number	Task Title	Hours	Sub-total (\$)	Hours	Sub-total (\$)	Hours	Sub-total (\$)	Hours	Sub-total (\$)	Hours	Sub-total (\$)	Hours	Sub-total (\$)	Hours	Sub-total (\$)	Hours	Sub-total (\$)	Hours	Sub-total (\$)	Hours	Sub-total (\$)	Hours	Sub-total (\$)	Hours	Sub-total (\$)	Subtotal (\$)	Subtotal (\$)	Subtotal (\$)			
1	Survey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	12,480	18	2,340	76	4,940	0	0	0	190	\$19,760	
2	Preliminary Design	0	0	2	330	105	15,225	162	20,250	12	1,080	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,000	1,990	5,000	281	\$53,875	
3	Permitting	2	352	3	495	12	1,740	30	3,750	16	1,440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	\$7,777	
4	Final Design	0	0	4	660	100	14,500	90	11,250	24	2,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	218	\$28,570	
5	Bidding Assistance	0	0	0	0	18	2,610	20	2,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	\$5,110	
6	Construction Phase Services	0	0	0	0	122	17,690	78	9,750	0	0	0	0	40	4,000	300	27,000	0	0	0	0	0	0	0	0	0	0	0	0	540	\$58,440
7	Project Closeout	0	0	0	0	16	2,320	20	2,500	0	0	0	0	0	0	16	1,440	4	200	0	0	0	0	0	0	0	0	0	56	\$6,460	
TOTAL		2	352	9	1,485	373	54,085	400	50,000	52	4,680	0	0	40	4,000	316	28,440	4	200	96	12,480	18	2,340	76	4,940	10,000	1,990	5,000	1,386	\$179,992	