

Centrifuge 3-5 Year CIP Plan

Currently we have three centrifuges and all of them are CS21-4HC Trailer Units. All three of the centrifuges are rated for 225 gpm but a more realistic number is around 190 gpm (New). The only maintenance that has been performed is the day-to-day maintenance, greasing and oil changes etc. The scrolls and bowls have never been sent out for the manufacture to rebuild them. We are going to send out the scroll and bowl on the number 1 centrifuge this year to be rebuilt by the manufacturer.

The number 1 centrifuge was purchased in July 2009. This centrifuge is currently being used between the Airport WRF and the Ridge Manor WWTF. Due to its age, the best that we can achieve is approximately 150 gpm. Anything over that, we start sending too many solids back to the plant.

The number 2 centrifuge was purchased in July 2011. This centrifuge is for the Glen WRF. The best it can achieve is roughly 190-210 gpm. Anything over that, we start sending too many solids back to the plant.

The number 3 centrifuge was purchased in 2016 when the last phase of construction was completed at the Airport WRF. Currently, the best it can achieve is approximately 170 gpm. Anything over that, we start sending too many solids back to the plant.

What I would like to do, is to purchase a CS26-4 skid unit centrifuge stationary mount for the Glen WRF during the construction design that is going on at the plant now. With the increase of flow, this centrifuge will double what we are able to process in a day. As it stands, currently, we are processing roughly the same amount that we are wasting per day (We are having to work overtime daily). With the new plant design, we will be adding more digestors and removing the sludge thickeners, and this will allow us to supernatant more, which we're unable to do at this time. This should help with processing a little bit, to create a higher percent solid to the centrifuge.

If we do purchase a new centrifuge for the Glen WRF, the power will have to be increased, the plant lift station will have to be checked to make sure that it can handle the flow, the plant water system will need to be checked for proper flow and the discharge line from the digester will need to be checked to ensure adequate flow is achieved. The reason for the bigger machine is because we only have space for one machine at this time. It would be too costly, in my opinion, to go and upgrade all the piping, power, and a new building to accommodate two machines at this time.

For the Airport, I would take the Glen's CS21-4, if the new one is approved, and move it to the Airport because it is designed to accommodate two machines.

In the next 5 or 6 years I would like to purchase a CS26-4 or a CS30-4 skid unit centrifuge stationary mount for the Airport. I would then take one of CS21-4HC Trailer Units centrifuges to the Ridge Manor WWTF and surplus the number 1 centrifuge.

- CS21-4HC trailer unit
 - Capacity 150-225gpm (likely to run around 190gpm)
 - Flush water required 90-135gpm for 20 min at shutdown
 - 200A panel breaker
 - Price \$930,100
- CS26-4 skid unit
 - Capacity 200-400 gpm (likely to run around 350gpm)
 - Flush water required 150-200gpm for 20 min at shutdown
 - 350A panel breaker
 - Price \$1,048,500
- CS30-4 skid unit
 - Capacity 300-700 gpm
 - Flush water required 180-250gpm for 20 min at shutdown
 - 500A panel breaker
 - Price \$1,335,500

Katrina Tejera

From: Jared Waring
Sent: Thursday, August 10, 2023 1:44 PM
To: Katrina Tejera
Subject: RE: Glen WRF upgrade change order

Trina,

The justification for adding the Vac truck dump station to the Glen WRF denitrification and plant upgrades is as follows: In an effort to efficiently complete the Glen WRF denitrification and plant upgrades and the Glen WRF vac truck dump station at the same time it would be advantageous to only have one contractor on site instead of two.

The justification for adding the new centrifuge and supporting components to the Glen WRF denitrification and plant upgrades is as follows: The new centrifuge at the Glen WRF is needed to increase the amount of sludge removal.



Jared Waring, P.E.
Engineer
Hernando County Utilities Department
15365 Cortez Blvd
Brooksville, FL 34613
www.hernandocounty.us
Office Phone: (352) 540-6773

From: Katrina Tejera <KTejera@co.hernando.fl.us>
Sent: Wednesday, August 9, 2023 12:12 PM
To: Jared Waring <JWaring@co.hernando.fl.us>
Subject: RE: Glen WRF upgrade change order
Importance: High

Hi Jared,

I see the justification below for the addition of the Vac Truck dump station services to PO 22000634, but I also need the justification for add'l \$198,687.50 being added for the Glen. If you previously sent that to me, I am unable to find it. Please send the information asap in order for me to enter the change order.

Thank you,

Katrina (Trina) Tejera

Operations Assistant
Hernando County Utilities Department
15365 Cortez Blvd.
Brooksville, FL. 34613
352-754-4926

From: Jared Waring <JWaring@co.hernando.fl.us>
Sent: Wednesday, July 12, 2023 8:43 AM
To: Katrina Tejera <KTejera@co.hernando.fl.us>
Subject: RE: Glen WRF upgrade change order

Trina,

The justification for adding the Vac truck dump station to the Glen WRF denitrification and plant upgrades is as follows: In an effort to efficiently complete the Glen WRF denitrification and plant upgrades and the Glen WRF vac truck dump station at the same time it would be advantageous to only have one contractor on site instead of two.



Jared Waring, P.E.
Engineer
Hernando County Utilities Department
15365 Cortez Blvd
Brooksville, FL 34613
www.hernandocounty.us
Office Phone: (352) 540-6773

From: Jared Waring
Sent: Wednesday, July 12, 2023 7:41 AM
To: Katrina Tejera <KTejera@co.hernando.fl.us>
Subject: FW: Glen WRF upgrade change order

Trina,

This change order has not been approved yet, but I expect it to be approved soon. I wanted to send you this just in case you will need to review it prior to being accepted.



Jared Waring, P.E.
Engineer
Hernando County Utilities Department
15365 Cortez Blvd
Brooksville, FL 34613
www.hernandocounty.us
Office Phone: (352) 540-6773

From: Thomas W. Friedrich, PE, BCEE <TFriedrich@jonesedmunds.com>
Sent: Tuesday, July 11, 2023 2:50 PM
To: Jared Waring <JWaring@co.hernando.fl.us>
Cc: Ron Patel <RPatel@co.hernando.fl.us>; Sean P. Menard, PE, CDT, ENV SP, Assoc. DBIA <SMenard@jonesedmunds.com>; Brian J. Icerman, PE <BIcerman@jonesedmunds.com>
Subject: RE: Glen WRF upgrade change order

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Jared – As discussed here is the Glen WRF Contract Amendment for the proposed additions and improvements. We also included Exhibit B – Fee Quotation Proposal.

Let me know if you have any questions or comments. We look forward to completing this work for the County and getting these upgrades bid and under construction.

Sincerely, Tom

Thomas W. Friedrich, PE, BCEE
Senior Consultant / Vice President
p. 813.258.0703 | x. 1761 | c. 813.263.2204
JONESEDMUNDS.COM
324 S. Hyde Park Ave, Suite 250, Tampa, FL 33606

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August 2, 2023

Jared Waring, PE – Project Manger
Hernando County Utilities Department
15365 Cortez Boulevard
Brooksville, Florida 34613

RE: Hernando County Utilities
 Contract Amendment No. 1 – Additional Design Services for Centrifuge and
 Vacuum Truck Dump Station Improvements and Electrical Service Upgrades
 Project: Glen Water Reclamation Facility Denitrification and Plant Upgrades
 PSA No. 21-RG0055-PH
 PO No. 22000634
 Jones Edmunds Opportunity/Project Nos.: 95144-142-23/08375-059-01

Dear Mr. Waring:

Based on discussions with the County, Jones Edmunds has provided the following proposal for Contract Amendment No. 1 (CA1) to the Hernando County Professional Services Agreement (PSA) No. 21-RG0055-PH, Glen Water Reclamation Facility (WRF) Denitrification and Plant Upgrades. These services will amend Task 4 – Final Design and Bidding Services and Task 5 – Construction-Phase Services of the Contract. The services proposed were not a priority during the original scoping process but have become a priority for the County.

TASK 4.1 – CA1 ADDITIONAL FINAL DESIGN AND BIDDING-PHASE SERVICES

This Scope of Services includes three additional final design and bid-phase tasks requested by the County as follows:

- Design a Centrifuge Addition to the Existing Dewatering Building.
- Evaluate Plant Water, Feed Piping, Drains, and Pump Station Improvements.
- Design a Vacuum Truck Dump Station Facility.

The Subconsultant services related to this work include:

- Survey (dewatering building and site)
- Structural (centrifuge addition, dewatering building, vacuum dump station facilities, new switchgear building)

- Electrical and Instrumentation and Control (I&C) (WRF electrical service upgrades and switchgear building addition, electrical and I&C for centrifuge, vacuum dump station, and plant drain pump station).

The work for each task is described below. We have split the design tasks into 4.1A and 4.1B for cost tracking.

4.1A DESIGN A CENTRIFUGE ADDITION TO EXISTING DEWATERING BUILDING

Jones Edmunds will design a new stationary-mount Centrisys decanter centrifuge Model No. CS26-4 2PH (with a hydraulic back drive designed for 200- to 400-gallon-per-minute (gpm) sludge feed rate and 3,000-pound per hour (lb/hr) dry solids loading at 1.5-percent total solids feed concentration) for permanent installation into the existing metal building. The existing mobile centrifuge will be moved to the Airport Subregional WRF. This will expand the sludge-dewatering capacity at both facilities. The centrifuge dewatering system includes the following equipment and I&C:

- One centrifuge (125 horsepower [Hp]).
- One hydraulic back drive motor (40 Hp).
- One progressive cavity feed pump (25 Hp).
- One sludge flow meter.
- One polymer feed system (0.5 Hp).
- One dewatered cake transport conveyor (5 Hp).

All electrical equipment greater than 1 Hp will operate on 480-volt/60-hertz/three-phase (480V/60Hz/3Ph) power. The dewatering control panel furnished with the centrifuge package will be constructed of Type 304 stainless steel NEMA 4X and will provide all I&C and interlocks necessary for operating the centrifuge and ancillary equipment. The new connected load for the system will be 350-amp, 480V/60Hz/3Ph power.

Adding the centrifuge and related equipment requires increasing the power service to the WRF. The Electrical subconsultant (EMI) will provide upgraded power service to the WRF to accommodate the new centrifuge improvements, the current 3.0-million-gallon-per day (MGD) plant upgrades, and the future expansions to 4.5 and 6.0 MGD. This includes service for the switchgear addition, supervisory control and data acquisition (SCADA) system modifications for the switchgear, and a future second plant generator.

The Structural subconsultant (Wekiva) will provide concrete foundation/supports for the centrifuge. A self-supporting beam crane with a trolley hoist will be designed to allow removal of the centrifuge scroll, drive motor, and hydraulic pump for the back drive and related equipment for maintenance and repairs.

The new centrifuge will require upgraded plant water feed piping for flush water for the feed piping, conveyor drain, and upgraded drain system for the clean-in-place flush-water flow

rate of 150 to 200 gpm for 20 minutes @ 45- to 60-pound-per-square-inch (psi) feed pressure, including a centrate flow of 160 to 320 gpm.

The new stationary-mount centrifuge will be configured to allow conveyor truck loading, operations staff maintenance and operation access, required walkways, handrails, I&C panels, and WRF SCADA system connection for remote monitoring, control, and system automatic and emergency shutdown. Building modifications are assumed not to require major structural modifications to accommodate the new system.

Supplemental equipment for the centrifuge dewatering system to be reviewed with County staff include the following:

- Additional sludge grinder before the centrifuge or progressive cavity feed pump.
- A wash water booster pump for flush water.
- Platforms and railings as required or requested.

4.1A EVALUATE PLANT WATER, FEED PIPING, DRAINS, AND PUMP STATION IMPROVEMENTS

Adding the vacuum truck dump station with the large-capacity hose bibs and the larger centrifuge dewatering system requires higher flush-water volumes and polymer makeup water to evaluate the plant water system feed piping size and plant pressure to provide clean-in-place flush water centrifuge and cake conveyor, makeup water for the polymer feed system, and wash-down water for the vacuum truck dump station bays.

Jones Edmunds will evaluate the existing buried ductile iron piping from the sludge digestors to the centrifuge feed pump and confirm that sufficient flow and net-positive suction head are available for the new flow rate of 400 gpm compared to the net-positive suction head required for the progressive cavity feed pump from the digester to the centrifuge. Increased pipe size may be required to accommodate the higher flow rate to the centrifuge.

We will evaluate the plant drain gravity sewer piping from the dewatering building with higher centrate and flush water flows, the new vacuum truck dump station facility flows, and the higher supernatant flows from the additional new sludge digestors to confirm that sufficient capacity is available to process additional flows without backup and on-site sewer overflow. We will provide recommendations and design improvements (as needed).

We will also evaluate process mechanical, structural, electrical, and I&C improvements related to the plant drain pump stations (as required).

4.1B DESIGN A VACUUM TRUCK DUMP STATION FACILITY

The County provided Jones Edmunds with the proposed site location, a conceptual layout, a demolition plan, and a site restoration concept for the grease bed and drying bed to be demolished, the proposed Vacuum Truck Dump Station building plan and sections with two drying beds equipped with steel strainer plate details, and the dried material storage area.

All areas are to be enclosed in a steel building with a concrete floor sloped for drainage and drainage sumps for draining excess decant back to the plant drain pump station.

DESIGN DOCUMENT SUBMITTALS

Jones Edmunds will furnish the labor, materials, and engineering services associated with producing and submitting drawings and specifications for the 60%, 90%, 100%, and Final Bid Documents for the proposed project work, as described below.

60% DESIGN TASKS AND DOCUMENTS

1. Conduct a kickoff and site meeting with staff to review the following:
 - a. Building survey (by Coastal) to locate walls, bollards, floor drains, process piping and drain connections, plant water connections, electrical and I&C connections, garage and door openings, height to underside of roof, lighting heights, roof beams and related items to coordinate for installing the proposed centrifuge system, piping, electrical, and I&C into the existing structure.
 - b. Layout and configuration of centrifuge including feed pump, discharge conveyor, overhead bridge crane, and electrical feed and control panels.
 - c. Structural mounting for the centrifuge, miscellaneous metals, walkways, stairs, and overhead bridge crane.
 - d. Electrical upgrades to the centrifuge building and WRF with new switchgear and electrical building.
 - e. Function and layout of the vacuum truck dump station including the size of trucks (length, width, and height), maximum height to tilt and dump, and operation and cleaning of strainers. Discussions will include the needs of the building including electrical power and outlets, lighting, yard hydrants with hose bibs and reels, etc., and the structural design including pre-engineered metal building, cast-in-place concrete floors and building foundation, pipe bollards and miscellaneous metals including the steel strainers for allowing the liquid to drain from the vacuum truck dump.
 - f. Existing plant gravity drain system and additional flows from aerobic digester supernatant, larger centrifuge centrate flow, and in-place flush water and flows from vacuum truck drying beds and hose wash down.
2. Update the Basis of Design Report (BODR) with additional WRF treatment process items.
3. Prepare 60% design plans and specifications (process, civil, mechanical, electrical, structural, and I&C) for the additional scope items listed above.
4. Incorporate the new 60% drawings and specifications into the existing 60% drawings and specifications for the County's review. An electronic copy will be provided in Adobe Acrobat .pdf format.

5. Prepare a 60% opinion of probable construction cost and submit it to the County for review.
6. Meet with the County to review the updated 60% design documents.

90% DESIGN TASKS AND DOCUMENTS

1. Prepare 90% design plans and specifications (process, civil, mechanical, electrical, structural, and I&C), incorporating the County's comments from the 60% design review.
2. Submit four copies of the 90% design plans and specifications to the County to review.
3. Prepare a 90% opinion of probable construction cost and submit to the County to review.
4. Meet with the County to review the 90% design documents.

100% DESIGN TASKS AND DOCUMENTS

1. Prepare 100% plans and specifications, incorporating the County's comments from the 90% design review.
2. Submit four copies of the 100% design plans and specifications to the County to review. An electronic copy will also be provided in Adobe Acrobat .pdf format.
3. Submit eight copies of the 100% design plans to the County for the building permit application.
4. Prepare a 100% opinion of probable construction cost and submit it to the County to review.
5. Meet with the County to review the 100% design documents.

BIDDING-PHASE SERVICES

Jones Edmunds and our structural and electrical subconsultants will address Contractor questions and prepare addenda associated with the additional scope items.

TASK 5.1 – CA1 ADDITIONAL CONSTRUCTION-PHASE SERVICES

During construction Jones Edmunds and our structural and electrical subconsultants will review the additional shop drawings and answer Requests for Information (RFIs) associated with the additional Scope of Services. We will prepare Record Drawings based on the Contractor-supplied record drawings. The fee breakdown for this Task is split into 5.1A and 5.1B to match the design tasks 4.1A and 4.1B.

SCHEDULE UPDATE (IN CALENDAR DAYS)

Jones Edmunds will begin work on the additional Scope of Services items to the Glen WRF on receiving approval and the Notice to Proceed. The updated schedule for this project to complete the Bid Documents and FDEP permitting assumes that the additional feature will be incorporated into the existing design documents. The anticipated schedule below will complete the project's bid documents in 2023 assuming a NTP in July 2023. The exact submittal and meetings dates will be based on a mutual agreement between the County and Jones Edmunds. The exact dates will be based on the approval of previous step and review times needed.

Anticipated Days After NTP

Site Meeting with County on Additional Work	14
Update Draft BODR with Additional Equipment and Facilities	21
Conduct BODR and FDEP Permit Package Review Meeting with County	30
Submit FDEP Permit Package and BODR to FDEP	45
Submit ERP to FDEP for Review and then to Agency	45
Update 60% Design Drawings and Specifications	70
Complete 90% Design Drawings and Specifications	100
Complete 100% Design Drawings and Specifications	120
Complete Bid Drawings and Specifications	140

ASSUMPTIONS AND EXCLUSIONS

1. Permitting services beyond those specifically included in this Scope of Services are excluded. The original scope of work includes completing an FDEP Substantial Modification and Permit Renewal for the Glen WRF, and a Facility ERP.
2. Developing and submitting a Maintenance of Traffic (MOT) Plan is excluded from this Scope of Services. The MOT Plan will be developed and submitted by the Contractor once the project is awarded for construction.
3. All permit fees, plan review fees, or other regulatory fees, including but not limited to the FDEP ERP and County permits, are excluded from this Scope of Services and are assumed to be paid directly by the County.
4. This scope of services does not include a collection system action plan. Based on our understanding of the recent FDEP rulemaking, we assume that the FDEP will not require a collection system action plan for a permit modification.
5. Schedule impacts due to permitting requirements may occur and are beyond our control.
6. This Scope of Services is for work within County rights-of-way (ROWs) or County-owned property only (including temporary easements). Acquisitions of additional easements or ROWs are excluded from this Scope of Services.
7. The County will coordinate all internal stakeholders and invite them to meetings.

8. The schedule above is based on receiving County review comments within 14 calendar days of receipt of the deliverable.
9. All drawings and specifications will be prepared in English units.
10. Front-end documents will be Hernando County standard documents, EJCDC Standard General Conditions, and Hernando County Supplemental Conditions with attachments.
11. Technical specifications will be developed using Jones Edmunds' standard 16-division CSI format.
12. National Pollutant Discharge Elimination System (NPDES) and building permits for construction activities are the responsibility of the Contractor and are excluded from this proposal.

COMPENSATION

Jones Edmunds proposes to provide the additional services detailed above on a lump-sum basis in accordance with PSA No. 21-RG0055-PH, for the Glen WRF Denitrification and Plant Upgrades Project, for \$245,130. Invoices will be based on a percent-complete basis by Task. Jones Edmunds will submit invoices to the County monthly. Exhibit B, attached, provides a man hour breakdown by Task.

TASK	Labor Effort and ODCs	Subconsultants	TOTAL
Task 4.1 – CA1 Additional Final Design and Bidding Phase Services	\$138,870	\$65,984	\$204,854
<i>SubTask 4.1A</i>	\$107,500	\$57,886	\$165,386
<i>SubTask 4.1B</i>	\$31,370	\$8,098	\$39,468
Task 5.1 – CA1 Additional Construction-Phase Services	\$32,340	\$7,936	\$40,276
<i>SubTask 5.1A</i>	\$27,480	\$5,821.50	\$33,302.50
<i>SubTask 5.1B</i>	\$4,860	\$2,114.50	\$6,974.50
TOTAL – Contract Amendment No. 1 (Lump Sum)	\$171,210	\$73,920	\$245,130
Original Contract Not-to-Exceed Fee	\$993,735	\$368,781	\$1,362,516
Revised Contract Not-to-Exceed Fee	\$1,164,945	\$442,701	\$1,607,646

As always, we appreciate this opportunity to serve the County. If you have any questions or comments call me at (813) 263-2204 or email at tfriedrich@jonesedmunds.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas W. Friedrich". The signature is fluid and cursive, with the first name being the most prominent.

Thomas W. Friedrich, PE, BCEE
Project Manager/ Senior Consultant/ VP
324 S. Hyde Park Avenue, Suite 250
Tampa, Florida 33606

XC: Ron Patel, PE – Utilities Engineering Manager, Hernando County
Alisa Pike – Procurement Coordinator, Hernando County
Brian Icerman, PE– Managing Director, Jones Edmunds
Sean Menard, PE, CDT, ENV SP, Assoc. DBIA – Design Task Leader, Jones Edmunds

CONTRACT AMENDMENT NO. 1
CONTRACT No. 21-RG0055/PH - Engineering Services for Glen Water Reclamation Facility
EXHIBIT "B" TASK FEE QUOTATION PROPOSAL

Task Number	Task Name	Friedrich Project Officer \$250		Inerman/Keller Project Officer \$250		Menard Senior Project Manager \$180		Horvath/Holmes/Piercon Senior Engineer \$195		Lio Engineer \$110		Kramer/Meadows Senior CADD Design \$100		Fiacchi Construction Admin \$110		Kearns/Veselen Senior Admin Assistant \$80		Schmid Senior Technical Editor \$120		Total Labor Costs	Subconsultant Fee	Total Task Fee	Total Labor Hours	Avg Labor Rate
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	\$	\$	\$	hrs	\$/hr
CA1	Additional Final Design (60%, 90%, Final) & Bidding Phase Services	41	\$10,250	7	\$1,750	142	\$25,560	146	\$28,470	285	\$31,680	283	\$28,300	18	\$1,980	88	\$7,040	32	\$3,840	\$139,870	\$65,984	\$204,854	1045	\$265
	<i>SubTask Total</i>	33	\$8,260	6	\$1,500	104	\$18,720	114	\$22,230	240	\$26,400	230	\$20,300	14	\$1,540	68	\$5,440	28	\$3,720	\$107,500	\$57,888	\$165,388	828	\$199.04
4.1A	60% Design Drawings	16	\$4,000	3	\$750	60	\$10,800	64	\$12,480	124	\$13,640	112	\$11,200	6	\$660	28	\$2,240	12	\$1,440	\$57,210	\$0	\$57,210	425	\$134.61
	90% Design Drawings	10	\$2,500	1	\$250	24	\$4,320	32	\$6,240	88	\$9,680	51	\$5,100	5	\$550	18	\$1,440	6	\$720	\$28,600	\$0	\$28,600	215	\$133.02
	100% Design Drawings	6	\$1,500	1	\$250	18	\$3,240	12	\$2,340	40	\$4,400	32	\$3,200	3	\$330	18	\$1,440	4	\$480	\$17,180	\$0	\$17,180	134	\$128.21
	- Site Work, Civil and Stormwater (Coastal)		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$5,000	\$5,000	0	0	
	- Structural (Wet/dry)		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$11,300	\$11,300	0	0	
	- Electrical, I&C, SCADA		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$41,038	\$41,038	0	0	
Bidding Phase Services	1	\$250		1	\$250	2	\$360	6	\$1,170	8	\$880	8	\$800		\$0	4	\$320	4	\$480	\$4,610	\$0	\$4,610	24	\$192.65
- Structural (Wet/dry)		\$0			\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$560	\$560	0	0		
	<i>SubTask Total</i>	6	\$2,000	1	\$250	38	\$6,840	32	\$6,240	48	\$5,280	80	\$8,000	4	\$440	20	\$1,600	6	\$720	\$6,098	\$6,098	237	\$25.73	
4.1B	60% Design Drawings	4	\$1,000	1	\$250	20	\$3,600	18	\$3,240	32	\$3,520	48	\$4,800	2	\$220	12	\$960	4	\$480	\$17,950	\$0	\$17,950	139	\$129.14
	90% Design Drawings	2	\$500		\$0	12	\$2,160	10	\$1,800	12	\$1,320	24	\$2,400	1	\$110	6	\$480	2	\$240	\$9,180	\$0	\$9,180	69	\$132.75
	100% Design Drawings	2	\$500		\$0	6	\$1,080	6	\$1,170	4	\$440	6	\$600		\$0	2	\$160	0	\$0	\$4,280	\$0	\$4,280	28	\$149.50
	- Structural (Wet/dry)		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$7,600	\$7,600	0	0	
- Electrical, I&C, SCADA		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$498	\$498	0	0		
	<i>SubTask Total</i>	4	\$1,000	2	\$500	8	\$1,440	40	\$7,800	100	\$11,000	8	\$800	60	\$6,000	40	\$3,200	0	\$0	\$32,340	\$7,936	\$40,276	282	\$123.44
	CA1 Additional Construction Phase Services	4	\$1,000	2	\$500	8	\$1,440	40	\$7,800	100	\$11,000	8	\$800	60	\$6,000	40	\$3,200	0	\$0	\$27,488	\$5,821.50	\$33,309.50	220	\$151.40
5.1A	Construction Administration	4	\$1,000	2	\$500	6	\$1,080	35	\$7,020	84	\$9,240	8	\$800	48	\$4,800	32	\$2,560	0	\$0	\$27,480	\$0	\$27,480	220	\$124.91
	- Structural (Wet/dry)		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$3,000	\$3,000	0	0	
	- Electrical, I&C, SCADA		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$2,921.50	\$2,921.50	0	0		
	<i>SubTask Total</i>	0	\$0	0	\$0	2	\$360	4	\$780	16	\$1,760	0	\$0	12	\$1,320	8	\$640	0	\$0	\$4,860	\$2,114.50	\$6,974.50	42	\$166.77
5.1B	Construction Administration		\$0		\$0	2	\$360	4	\$780	16	\$1,760		\$0	12	\$1,320	8	\$640		\$0	\$4,860	\$0	\$4,860	42	\$115.71
	- Structural (Wet/dry)		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$1,800	\$1,800	0	0	
	- Electrical, I&C, SCADA		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$314.50	\$314.50	0	0	
	Contract Amendment Totals	45	\$11,250	9	\$2,250	190	\$27,000	186	\$36,270	388	\$42,980	291	\$29,100	78	\$8,580	128	\$10,240	32	\$3,840	\$171,210	\$73,620	\$244,830	1307	\$187.28

loc Truck Dump Station
loc Truck Dump Station

SUB-TOTAL PRIME COSTS (Contract Amendment 1) \$171,210
 Subconsultant Expenses (Contract Amendment 1) \$73,920
TOTAL COSTS (Contract Amendment 1) \$245,130

TOTAL LUMP SUM NOT TO EXCEED COST (Change Order 1) \$245,130

Firm Name: James Edwards & Associates, Inc. Signature: Stanley F. Ferreira, Jr., PE President & CEO Date: Aug 3, 2023	HERNANDO COUNTY Authorized Signature: <i>ROLD PATEL</i> (Printed Name and Title) Chief Procurement Officer Date:
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