HURRICANE CITY
UTAH

Mayor
Nanette Billings

City Manager
Kaden DeMille

City Council
David Hirschi
Kevin Thomas
Clark Fawcett
Drew Ellerman
Joseph Prete

Hurricane City Council Special Emergency Meeting
Agenda

August 23, 2024
8:00 PM
City Council Chambers 147 N 870 W, Hurricane

Notice is hereby given that the City Council will hold a Special Emergency Meeting in the City Council Chambers 147 N 870 W, Hurricane, UT. Meeting Link on Webex Meeting number: 2630 456 5376 Meeting password: HCcouncil Join from a video or application Dial 26304565376@cityofhurricane.webex.com. You can also dial 173.243.2.68 and enter your meeting number. Join by phone +1-415-655-0001 US Toll Access code:26304565376.

8:00 p.m. Call to Order

1. Prayer
2. Pledge of Allegiance

OLD BUSINESS

1. Consideration and possible approval of a **water savings agreement** for the irrigation expansion project.
2. Consideration and possible approval of a **bid to construct phase 1 of the City's irrigation expansion project** - Ken Richins
3. Consideration and possible approval of a **bid to construct the irrigation pond, filters, and booster station** for the irrigation expansion project - Ken Richins

Adjournment

I hereby certify that the above notice was posted to the city website, (www.cityofhurricane.com) posted to the state public notice website, and at the following locations:
1. City office – 147 North 870 West, Hurricane, UT
2. The Post Office – 1075 West 100 North, Hurricane, UT
3. The library – 36 South 300 West, Hurricane, UT
______________________________ for the City Recorder

WATER SAVINGS AGREEMENT

This WATER SAVINGS AGREEMENT ("**Agreement**") is entered into by and between **THE NATURE CONSERVANCY**, ("**TNC**"), **HURRICANE CITY** (the "**City**"), the **WASHINGTON COUNTY WATER CONSERVANCY DISTRICT** ("**WCWCD**"), the **HURRICANE CANAL COMPANY** (the "**Canal Company**"), and the **UNITED STATES FISH AND WILDLIFE SERVICE ("FWS")**. TNC, the City, WCWCD, the Canal Company, and FWS may be referred to individually as a "**Party**" and collectively as the "**Parties.**"

RECITALS

A. TNC is a non-profit corporation organized under the laws of the District of Columbia.

B. Hurricane City is a municipal corporation and political subdivision organized under the laws of the State of Utah.

C. WCWCD is a water conservancy district organized under the laws of the State of Utah.

D. The Canal Company is a non-profit corporation organized under the laws of the State of Utah.

E. FWS is an agency of the United States of America.

F. The Parties are sponsors of a cooperative undertaking to address several resource concerns in the Warner Draw Watershed, Utah, including insufficient water quantities, water quality degradation, soil quality degradation, enhancing agricultural water supplies, and inadequate habitat for fish and wildlife. This cooperative undertaking is administered by The United States Department of Agriculture Natural Resources Conservation Service ("**NRCS**") through the Watershed and Flood Prevention Operations Program, which implements provisions of the Flood Control Act of 1944 (Pub. L. 78-534) and the Watershed Protection and Flood Prevention Act of 1954 (Pub. L. 83-566, 16 U.S.C. § 1001 *et seq.*).

G. The Virgin River (the "**River**") is the main channel of the Warner Draw Watershed. The City currently provides irrigation water sourced from the River to customers in its service area under its water shares in the Canal Company. The Canal's Company's water is diverted from the Virgin River by the WCWCD and delivered to the Canal Company's system pursuant to a Water Conveyance Agreement between the Canal Company and WCWCD dated March 19, 1991 (the "**Water Conveyance Agreement**").

H. The City presently provides pressurized irrigation service to a portion of the City using water shares purchased in the Canal Company, but a significant portion of irrigated properties within the City are serviced by the Canal Company using flood irrigation. The NRCS and the City have planned the construction of an expansion of the City's pressurized irrigation system (the "**Project**") into an area currently serviced by the Canal Company using flood irrigation (the "**Expansion Area**"). To provide pressurized irrigation service within the Expansion Area, the

City will acquire additional shares in the Canal Company or otherwise arrange for water to service the Expansion Area.

I. NRCS has authorized funding to finance the planning and construction of the Project. Because in-stream benefits are one of the anticipated benefits of the Project, NRCS will not release the funding to the City for the Project without an agreement satisfactory to NRCS that describes how the Project will provide an instream benefit to the River.

J. Due to the complexity of attempting to calculate water savings within the Expansion Area to benefit the River, which savings will depend on many variables over a period of time as irrigators convert to sprinkler systems, the Parties propose that the in-stream benefit to the River be satisfied by the commitments made in this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

AGREEMENT

1. **Water Diversion and Pump Back.** To assist WCWCD in its management of instream flows to support the River, the City authorizes WCWCD to annually divert up to 193.38 acre-feet of water associated with the City's Water Right Number 81-2475 into WCWCD's Quail Creek Reservoir or Sand Hollow Reservoir. At the request of the Virgin River Program Local Coordinator, water diverted pursuant to this water right shall be used either in WCWCD's pump back system operated in conjunction with the Virgin River Program or released to the River from Quail Creek Reservoir. This Section shall go into effect on October 1, 2024, for the ensuing water year and shall remain in effect until September 30, 2044.

2. **Term.** This Agreement shall commence on the date that it is fully executed by each of the Parties and shall continue for twenty (20) years, unless terminated earlier in accordance with the provisions of this Agreement.

3. **Maintenance and Operation.** The City agrees to exercise reasonable diligence in maintaining the Project infrastructure to minimize water loss.

4. **Amendments.** This Agreement may be amended or revised only by mutual written agreement signed by all of the Parties.

5. **Termination.** The Parties may jointly terminate this Agreement, in whole or in part, at any time, by mutual agreement in writing.

6. **No Assignment.** The rights and obligations of the Parties shall not be assigned or transferred without the prior written approval of each Party hereto, and any attempt to provide for assignment or transfer without that prior written approval shall be void and of no legal effect.

7. **Subordination.** The Parties recognize and agree that the rights and obligations of this Agreement are subject to water right adjudications by courts of law, determinations by the Utah State Engineer regarding water rights and priorities, constitutional and statutory limitations,

consents that could be required from third parties, and pre-existing contractual rights and obligations by the Parties or relevant third parties, including the Water Conveyance Agreement entered into between the WCWCD and the Canal Company.

8. **Force Majeure.** All obligations of the Parties shall be suspended for so long as and to the extent the performance thereof is prevented, directly or indirectly, by earthquakes, fires, tornadoes, facility failures, floods, drought, strikes, other casualties, acts of God, orders of court or governmental agencies having competent jurisdiction, or other events or causes beyond the control of the Parties, including events that prevent one or more of the Parties from releasing and delivering water through their systems. Upon cessation of the force majeure condition, the obligation shall remain enforceable. In no event shall any liability accrue against a Party, its officers, agents, or employees, for any damage arising out of or connected with a suspension of performance pursuant to this section. When a Party's performance is prevented by a cause identified herein, the affected party shall provide written notice to the other Parties as soon as reasonably practical of the force majeure condition. Such notice shall identify the cause of the prevention of performance and the estimated length that such prevention of performance will likely remain in place. Promptly after the prevention of performance is removed or ceases, the affected party shall provide written notice to the other parties that states that the prevention of performance has been removed or ceased and performance of the Agreement has been renewed.

9. **Condition Precedent.** Notwithstanding anything to the contrary contained in this Agreement, the Parties further agree that the Parties' respective obligations herein shall be subject to the following condition precedent having been satisfied: NRCS provides the seventy-five percent (75%) funding match for the Project within the Expansion Area.

10. **Necessary Acts and Cooperation.** The Parties shall perform those acts that may be reasonably necessary to effectuate the terms of this Agreement, including but not limited to preparing and filing any applications or other documents with the Utah Division of Water Rights that may be needed to allow Water Right Number 81-2475 to be used as provided for under this Agreement and to protect it from forfeiture.

11. **Notices.** All notices and other communications under this Agreement shall be in writing or sent via email. Notices shall be deemed as duly received on the date of service, if served personally on the Party to whom notice is to be given. Notices shall also be deemed as duly received five (5) days from the date said notice is emailed or mailed to the Party to whom notice is to be given, either by first class mail, registered or certified, postage prepaid or by express delivery with handling prepaid, and properly addressed as stated below.

If to Hurricane City:
City of Hurricane
Attn: City Manager
147 North 870 West
Hurricane, UT 84737
kaden@hurricane.utah.gov

If to Washington County Water Conservancy District:

Washington County Water Conservancy District
Attn: General Manager
533 East Waterworks Drive
St. George, UT 84770
zach@wcwcd.org

If to Hurricane Canal Company:

Attn: Board President
Hurricane Canal Company
58 N 200 E
Hurricane, UT 84737

12. **Conflict Resolution.** This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Utah. An Involved Party may bring an action in the Fifth Judicial District Court of the State of Utah In and For Washington County. Under no circumstances shall any Involved Party be liable for any consequential damages. Each Involved Party shall be responsible for their own court costs and attorney's fees.

13. **Binding Effect**. All of the covenants, conditions, and provisions of this Agreement shall inure to the benefit of and be binding upon the Parties hereto and their respective successors and approved assigns.

14. **Entire Agreement.** This Agreement constitutes the entire agreement between the Parties and supersedes any prior understandings or oral or written agreements between the Parties respecting the within subject matter except as provided in paragraph 7 of this Agreement (subordination).

15. **No Third-Party Beneficiaries**. This Agreement is exclusively for the benefit of and governs only the Parties hereto. The only Parties entitled to enforce the terms of this Agreement are listed herein as the Parties. Nothing in this Agreement gives, or is intended to give, or shall be construed to give or provide any benefit or right, whether directly, indirectly, or otherwise, to third persons.

16. **No Waiver.** Forbearance in enforcing any right or remedy under this Agreement shall not be deemed a waiver nor shall it be the basis for an inference that any party hereto has waived any provision hereof or that a party has waived any right hereunder.

17. **Warranty of Authority.** Each individual executing this Agreement on behalf of an entity represents and warrants that they have been duly authorized by such entity to execute this Agreement on behalf of and for such entity.

18. **Counterparts.** This Agreement may be executed in any number of counterparts, but all such counterparts shall be deemed but one original Agreement for all intents and purposes.

19. **Headings.** The headings contained in this Agreement are intended for convenience only and are in no way to be used to construe or limit the text herein.

20. Incorporation of Recitals. The recitals of this Agreement are incorporated as if fully set forth herein.

21. Severability. Should any portion of this Agreement for any reason be declared invalid or unenforceable, the invalidity or unenforceability of such portion shall not affect the validity of any of the remaining portions, and the same shall be deemed in full force and effect as if this Agreement had been executed with the invalid portions eliminated.

22. Interpretation. In this Agreement, unless the context otherwise requires:

a. Use of the singular, plural, or a gender shall include the other, and the use of the words "include" and "including" shall be construed to mean "without limitation" or "but not be limited to."

b. The word "may" is permissive;

c. The words "shall not" are prohibitive;

d. The words "will" and "shall" are mandatory or required; and

e. The present tense includes the future tense.

23. Legal Review. The Parties represent and agree that they had full opportunity to review this Agreement with their respective attorneys and that they accept the terms hereof. The rule that such Agreement is to be construed against its drafter shall not apply to this Agreement.

Signatures on succeeding page.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed the day and year above written.

HURRICANE CITY

By: Nanette Billings
Its: Mayor

THE NATURE CONSERVANCY

By: Elizabeth Kitchens
Its: Utah State Director

WASHINGTON COUNTY WATER CONSERVANCY DISTRICT

By: Zachary Renstrom
Its: Manager

HURRICANE CANAL COMPANY

By: Mac Hall
Its: Board President

UNITED STATES FISH AND WILDLIFE SERVICE

By:
Its:

HURRICANE CITY
UTAH

STAFF COMMENTS

Consideration and possible approval of a **bid to construct phase 1 of the City's irrigation expansion project** - Ken Richins

Discussion:
On June 27th, 2024, the Water Department held a bid opening for the phase 1 irrigation project. Five qualified contractors placed bids. The winning bid was Interstate Rock Products for $7,859,191.00.
Bowen and Collins Engineering the engineers over this project recommend to the City Council to award the project to Interstate Rock.
The Water Board discussed this on July 30,2024, and there was a consensus that the bid be awarded to the low bidder Interstate Rock. -Ken Richins

Findings:

Recommendation:

Attachments:
1. Clark Fawcett email regarding irrigation expansion
2. Bid Recommendation Hurricane Irrigation Phase 1

Cindy Beteag

From: Clark Fawcett
Sent: Wednesday, August 14, 2024 5:21 PM
To: Council
Subject: Pressurized Irrigation

+1 other

Wed 8/14/2024 5:11 PM

I have been to several meetings with Alpha Engineering and the Water department discussing pressurized irrigation expansion. I know this is coming up on tomorrow night's agenda to approve the 1st two contracts. Because I have seen all the numbers I wanted to send a note to each of you listing the challenges we still face. This is not meant to try and convince you not to vote for the project, it is simply to identify the challenges so when you cast your vote you will understand what you are voting on and the possible ramifications.

1. The project has risen significantly in cost since the funding was acquired with NRCS. The NRCS has $11,380,985 in the bank committed and approved for this project. The project has increased to where the needed funds from NRCS is $21,425,603. The NRCS representative has indicated that he will go back and apply for the additional amount in the next round of funding but he can't guarantee any additional though he believes he can get more.
2. The Board of Water Resources has committed $12,655,000. If the NRCS does not come up with the additional funds Brent thinks he can go back and secure more from them. Again a possible option but no guarantee.
3. The first two phases of the project have been bid so we know the actual cost, but the third phase has not. The last bid was higher than the engineer's estimate. Without this number we are not sure if the cost will go even higher and there will be more money needed.
4. Even with full funding from the NRCS and Board of Water Resources, the City portion of the project will be $3,456.331. This amount can be financed through another Revenue bond or some can come from Impact fees funds for the Sky Ranch Well and Tank. This is a question that Paige and Kaden are working on.
5. There is $1,250,000 in the budget for purchase of Water shares. This is enough to cover the 700 homes currently built but additional water will be needed in the future. The existing homes will not pay an impact fee but the new ones will. This impact fee should cover a portion of the cost of the improvements and the cost of additional water. Going forward the City should be able to purchase additional shares as needed from these impact fee funds. The Gould's wash well did not hit culinary water. It is proposed that this well be hooked into the pressurized system. There is enough water to cover the 700 homes from this source without the need to purchase shares. The dilemma is that if shareholders want to sell their share once the system goes in, the city needs to be ready to purchase them whether they are needed or not so they aren't sold outside the system or to the Water Conservancy District. This money may have to come from the water

fund as well since there is no money in the pressurized budget and the purchase of water can't be paid for by NCRS or the Board of Water Resources.

6. The budget for this project has money included to replace the asphalt that is removed in laying the pipe. Many of these streets are only chip seal and it crumbles when cut and many roads are in bad shape. If more repair is needed other than the patching to cover the trench I am worried that the city may have a liability for road improvements.
7. Even though I have received answers to many of my questions, and Ken has done a great job in working with the current residents to make it feasible, my inclination right now is to postpone the vote until we are secure on the additional funding. I am told however, that the funding will be lost if we don't approve the contracts by the end of August.
8. There is a significant reduction in the cost of water purchase from the Conservancy District. Last year the city paid $886,288.18. While this entire amount will not go away, around $700,000 will as we use the additional water we save. This is more than enough to pay for the bond payment and still have savings.
9. The Water Conservancy District raises the water rate $.13 per year. Because we purchase water for Dixie Springs we pass this along to our users. In order to not make a two different rate system, the increase goes on all the users. This builds in an increase each year and we will keep more of it when we don't buy as much water from them. This will help to pay for any possible short falls in the future.
10. We had a good meeting with around 150-200 people on August 7. I was pleasantly amazed. I have been to a lot of public hearings on various projects over the years. This is the first one I can remember where not one person stood and spoke against it. We had many good questions about how it will work, the cost, improvements, timing etc., but no negative. I personally was thanked by several people for continuing to work on this project. I am sure there are people who don't want it but it sure seems the citizens are looking forward to this project.

This is a big leap of faith with many unknowns. With the funding we have received I don't believe there will be another time we could get this funding so it seems now or never. I just want you to be aware of the unknowns before you cast a vote.

Clark Fawcett

BOWEN COLLINS & ASSOCIATES

20 NORTH MAIN, SUITE NO. 107 • ST. GEORGE, UTAH 84770
TEL: (435) 656-3299

June 28, 2024

Ken Richins
Superintendent
Hurricane City
147 North 870 West
Hurricane, UT 84737

Subject: Recommendation of Award of Contract to Interstate Rock Products for the Hurricane Irrigation Efficiency – Phase 1 Project

Dear Ken:

Bids for Phase 1 construction of the Hurricane Irrigation Efficiency Project were received by Hurricane City (City) on Thursday, June 27, 2024. Bowen Collins & Associates (BC&A) completed a review of the bids that were received from five general contractors. Interstate Rock Products, Inc. was the apparent low bidder with a Base Bid price of $7,859,191. Interstate Rock has signed and submitted the appropriate bid forms, provided a 5% Bid Bond, acknowledged all contract addenda, and provided a schedule that meets the requirements specified in the contract documents.

A summary of the bids received for the project is provided below for reference and a detailed breakdown of the bids is attached for information.

Rank	Contractor	Base Bid Price	Difference from Low Bid
1	Interstate Rock	$7,859,191.00	-
2	JP Excavation	$8,992,510.00	$1,133,319.00 (14%)
3	M&T Enterprises	$9,313,434.41	$1,454,243.41 (19%)
4	Feller Enterprises	$9,391,071.61	$1,531,880.61 (19%)
5	Landmark Excavating	$10,600,795.00	$2,741,604.00 (35%)

The bid document specifies that *"All bids shall be checked for mathematical errors by the Engineer. If errors have been made in the extension of the figures, it will be assumed that the unit prices are correct and the total amounts will be revised to reflect the corrections."* Consequently, required adjustments to Interstate Rock Product's overall bid price were made for a few discrepancies between the unit price and total bid price. These adjustments resulted in a small increase in the listed bid price of approximately $3,000.

We have also reviewed the proposal documentation, including the schedule and Statement of Qualifications from Interstate Rock Products and found them responsive. A copy of the preliminary schedules submitted by the five bidders is attached for reference. We recommend that coordination take place with Interstate Rock Products and an agreement should be executed pending receipt of appropriate bonds and insurance documents following Notice of Award.

Please call with any questions or concerns regarding this recommendation. BC&A looks forward to working with the City through the successful completion of this important project.

Sincerely,

Bowen, Collins & Associates

Todd Olsen, P.E.
Project Manager

Cc.	Lance Smith – NRCS

Attachment

BID SCHEDULE SUMMARY
Hurricane Irrigation Efficiency Project - Phase 1
Hurricane City / NRCS
Bids Were Opened On: Thursday, June 27, 2024

Corrected Bid Total to Match Unit Prices

BOWEN COLLINS & ASSOCIATES

BASE BID				Engineer's Option		M&T Enterprises		Landmark Excavating		Feller Enterprises		Interstate Rock		JP Excavating		Unit Price Summary		
Item No.	Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	*Average*	*Low*	*High*
1	Mobilization	1	Lump Sum	$444,210	$444,210	$427,127.00	$427,127.00	$630,000.00	$630,000.00	$395,000.00	$395,000.00	$460,000.00	$460,000.00	$500,000.00	$500,000.00	*$482,425.40*	*$395,000.00*	*$630,000.00*
1A	Survey Control and Staking	1	Lump Sum	$50,000	$50,000	$83,912.11	$83,912.11	$100,000.00	$100,000.00	$60,000.00	$60,000.00	$105,000.00	$105,000.00	$60,000.00	$60,000.00	*$81,782.42*	*$60,000.00*	*$105,000.00*
2	Traffic Control	1	Lump Sum	$87,470	$87,470	$64,362.00	$64,362.00	$533,000.00	$533,000.00	$187,000.00	$187,000.00	$251,906.00	$251,906.00	$50,000.00	$50,000.00	*$217,253.60*	*$50,000.00*	*$533,000.00*
3.1	Furnish and Install 4" PVC DR 25 C-900 Pipe Purple	370	Linear Feet	$60	$22,200	$88.50	$32,745.00	$95.00	$35,150.00	$80.15	$29,655.50	$46.00	$17,020.00	$75.00	$27,750.00	*$76.93*	*$46.00*	*$95.00*
3.2	Furnish and Install 6" PVC DR 25 C-900 Pipe Purple	26,340	Linear Feet	$66	$1,738,440	$90.45	$2,382,453.00	$61.50	$1,619,910.00	$81.79	$2,154,348.60	$56.50	$1,488,210.00	$79.00	$2,080,860.00	*$73.85*	*$56.50*	*$90.45*
3.3	Furnish and Install 8" PVC DR 25 C-900 Pipe Purple	11,510	Linear Feet	$72	$828,720	$97.10	$1,117,621.00	$68.50	$788,435.00	$88.79	$1,021,972.90	$63.50	$730,885.00	$80.00	$920,800.00	*$79.58*	*$63.50*	*$97.10*
3.4	Furnish and Install 10" PVC DR 25 C-900 Pipe Purple	870	Linear Feet	$79	$68,730	$108.50	$94,395.00	$85.00	$73,950.00	$101.79	$88,557.30	$74.50	$64,815.00	$112.00	$97,440.00	*$96.36*	*$74.50*	*$112.00*
3.5	Furnish and Install 12" PVC DR 25 C-900 Pipe Purple	3,290	Linear Feet	$88	$289,520	$117.50	$386,575.00	$93.00	$305,970.00	$112.23	$369,236.70	$85.00	$279,650.00	$109.00	$358,610.00	*$103.35*	*$85.00*	*$117.50*
3.6	Furnish and Install 14" PVC DR 25 C-900 Pipe Purple	1,360	Linear Feet	$100	$136,000	$122.90	$167,144.00	$99.00	$134,640.00	$117.18	$159,364.80	$89.00	$121,040.00	$120.00	$163,200.00	*$109.62*	*$89.00*	*$122.90*
3.7	Furnish and Install 16" PVC DR 25 C-900 Pipe Purple	2,620	Linear Feet	$110	$288,200	$135.20	$354,224.00	$112.00	$293,440.00	$131.80	$345,316.00	$100.00	$262,000.00	$132.00	$345,840.00	*$122.20*	*$100.00*	*$135.20*
4.1	Furnish and Install 6" Ductile Iron Drain Pipe	70	Linear Feet	$70	$4,900	$144.40	$10,108.00	$155.00	$10,850.00	$289.47	$20,262.90	$160.00	$11,200.00	$82.00	$5,740.00	*$166.17*	*$82.00*	*$289.47*
4.2	Furnish and Install 8" Ductile Iron Pipe	130	Linear Feet	$130	$16,900	$123.00	$15,990.00	$170.00	$22,100.00	$307.54	$39,980.20	$140.00	$18,200.00	$103.00	$13,390.00	*$168.71*	*$103.00*	*$307.54*
4.3	Furnish and Install 10" Ductile Iron Pipe	80	Linear Feet	$80	$6,400	$131.80	$10,544.00	$180.00	$14,400.00	$333.10	$26,648.00	$140.00	$11,200.00	$115.00	$9,200.00	*$179.98*	*$115.00*	*$333.10*
5.1	Furnish and Install 4" Gate Valve (WD 316), Complete	12	Each	$2,500	$30,000	$1,930.00	$23,160.00	$3,200.00	$38,400.00	$3,211.32	$38,535.84	$1,350.00	$16,200.00	$1,400.00	$16,800.00	*$2,218.26*	*$1,350.00*	*$3,211.32*
5.2	Furnish and Install 6" Gate Valve (WD 316), Complete	57	Each	$3,000	$171,000	$2,397.50	$136,657.50	$3,900.00	$222,300.00	$3,637.08	$207,313.56	$2,950.00	$168,150.00	$2,500.00	$142,500.00	*$3,076.92*	*$2,397.50*	*$3,900.00*
5.3	Furnish and Install 8" Gate Valve (WD 316), Complete	26	Each	$3,300	$85,800	$3,585.00	$93,210.00	$5,100.00	$132,600.00	$4,932.43	$128,243.18	$4,350.00	$113,100.00	$3,500.00	$91,000.00	*$4,293.49*	*$3,500.00*	*$5,100.00*
5.4	Furnish and Install 10" Gate Valve (WD 316), Complete	6	Each	$4,800	$28,800	$5,484.50	$32,907.00	$7,750.00	$46,500.00	$7,348.51	$44,091.06	$5,850.00	$35,100.00	$4,100.00	$24,600.00	*$6,106.60*	*$4,100.00*	*$7,750.00*
5.5	Furnish and Install 12" Butterfly Valve (WD 316), Complete	2	Each	$5,110	$10,220	$6,050.00	$12,100.00	$12,225.00	$24,450.00	$12,181.48	$24,362.96	$11,000.00	$22,000.00	$4,500.00	$9,000.00	*$9,191.30*	*$4,500.00*	*$12,225.00*
5.6	Furnish and Install 14" Butterfly Valve (WD 316), Complete	3	Each	$7,670	$23,010	$8,683.00	$26,049.00	$11,300.00	$33,900.00	$11,110.63	$33,331.89	$13,800.00	$41,400.00	$6,000.00	$18,000.00	*$10,178.73*	*$6,000.00*	*$13,800.00*
5.7	Furnish and Install 16" Butterfly Valve (WD 316), Complete	2	Each	$10,230	$20,460	$12,827.00	$25,654.00	$20,600.00	$41,200.00	$21,928.79	$43,857.58	$7,300.00	$14,600.00	$9,400.00	$18,800.00	*$14,411.16*	*$7,300.00*	*$21,928.79*
6.1	Furnish and Install 6" 90 Degree Bends	21	Each	$560	$11,760	$773.50	$16,243.50	$1,100.00	$23,100.00	$724.84	$15,221.64	$680.00	$14,280.00	$950.00	$19,950.00	*$845.67*	*$680.00*	*$1,100.00*
6.2	Furnish and Install 6" 45 Degree Bends	6	Each	$450	$2,700	$762.20	$4,573.20	$1,050.00	$6,300.00	$689.04	$4,134.24	$670.00	$4,020.00	$950.00	$5,700.00	*$824.25*	*$670.00*	*$1,050.00*
6.3	Furnish and Install 6" 22.5 Degree Bends	10	Each	$410	$4,100	$751.10	$7,511.00	$1,030.00	$10,300.00	$674.51	$6,745.10	$660.00	$6,600.00	$950.00	$9,500.00	*$813.12*	*$660.00*	*$1,030.00*
6.4	Furnish and Install 6" 11.25 Degree Bends	19	Each	$430	$8,170	$756.60	$14,375.40	$1,035.00	$19,665.00	$681.78	$12,953.82	$670.00	$12,730.00	$950.00	$18,050.00	*$818.68*	*$670.00*	*$1,035.00*
6.5	Furnish and Install 8" 90 Degree Bends	3	Each	$830	$2,490	$923.30	$2,769.90	$1,215.00	$3,645.00	$887.03	$2,661.09	$920.00	$2,760.00	$1,100.00	$3,300.00	*$1,009.07*	*$887.03*	*$1,215.00*
6.6	Furnish and Install 8" 45 Degree Bends	2	Each	$830	$1,660	$882.50	$1,765.00	$1,170.00	$2,340.00	$835.27	$1,670.54	$880.00	$1,760.00	$1,100.00	$2,200.00	*$973.55*	*$835.27*	*$1,170.00*
6.7	Furnish and Install 8" 22.5 Degree Bends	3	Each	$830	$2,490	$878.30	$2,634.90	$1,165.00	$3,495.00	$829.82	$2,489.46	$880.00	$2,640.00	$1,100.00	$3,300.00	*$970.62*	*$829.82*	*$1,165.00*
6.8	Furnish and Install 8" 11.25 Degree Bends	3	Each	$830	$2,490	$862.40	$2,587.20	$1,150.00	$3,450.00	$808.94	$2,426.82	$860.00	$2,580.00	$1,100.00	$3,300.00	*$956.27*	*$808.94*	*$1,150.00*
6.9	Furnish and Install10" 90 Degree Bends	1	Each	$1,120	$1,120	$1,066.00	$1,066.00	$1,540.00	$1,540.00	$1,263.02	$1,263.02	$1,050.00	$1,050.00	$1,200.00	$1,200.00	*$1,223.80*	*$1,050.00*	*$1,540.00*
6.10	Furnish and Install10" 45 Degree Bends	1	Each	$830	$830	$1,085.50	$1,085.50	$1,440.00	$1,440.00	$1,148.62	$1,148.62	$1,050.00	$1,050.00	$1,200.00	$1,200.00	*$1,184.82*	*$1,050.00*	*$1,440.00*
6.11	Furnish and Install10" 22.5 Degree Bends	2	Each	$830	$1,660	$1,085.00	$2,170.00	$1,440.00	$2,880.00	$1,147.71	$2,295.42	$1,050.00	$2,100.00	$1,200.00	$2,400.00	*$1,184.54*	*$1,050.00*	*$1,440.00*
6.12	Furnish and Install 14" 11.25 Degree Bends	2	Each	$2,290	$4,580	$1,780.00	$3,560.00	$2,685.00	$5,370.00	$2,043.31	$4,086.62	$1,750.00	$3,500.00	$1,700.00	$3,400.00	*$1,991.66*	*$1,700.00*	*$2,685.00*
6.13	Furnish and Install 16" 45 Degree Bends	2	Each	$2,680	$5,360	$2,029.50	$4,059.00	$3,000.00	$6,000.00	$2,366.82	$4,733.64	$1,950.00	$3,900.00	$1,800.00	$3,600.00	*$2,229.26*	*$1,800.00*	*$3,000.00*
6.14	Furnish and Install 6" Tee	14	Each	$800	$11,200	$872.10	$12,209.40	$1,175.00	$16,450.00	$839.87	$11,758.18	$870.00	$12,180.00	$1,200.00	$16,800.00	*$991.39*	*$839.87*	*$1,200.00*
6.14A	Furnish and Install 6"x4" Tee	2	Each	$770	$1,540	$821.10	$1,642.20	$1,200.00	$2,400.00	$875.83	$1,751.66	$910.00	$1,820.00	$1,200.00	$2,400.00	*$1,001.39*	*$821.10*	*$1,200.00*
6.15	Furnish and Install 8" Tee	4	Each	$2,770	$11,080	$1,194.50	$4,778.00	$1,450.00	$5,800.00	$1,151.10	$4,604.40	$1,100.00	$4,400.00	$1,300.00	$5,200.00	*$1,239.12*	*$1,100.00*	*$1,450.00*
6.16	Furnish and Install 8" x 4" Tee	4	Each	$860	$3,440	$1,028.50	$4,114.00	$1,350.00	$5,400.00	$1,042.54	$4,170.16	$1,550.00	$6,200.00	$1,300.00	$5,200.00	*$1,254.21*	*$1,028.50*	*$1,550.00*
6.17	Furnish and Install 8" x 6" Tee	3	Each	$960	$2,880	$1,108.00	$3,324.00	$1,400.00	$4,200.00	$1,037.61	$3,112.83	$1,000.00	$3,000.00	$1,300.00	$3,900.00	*$1,169.12*	*$1,000.00*	*$1,400.00*
6.17A	Furnish and Install 10"x4" Tee	1	Each	$1,280	$1,280	$1,070.50	$1,070.50	$1,650.00	$1,650.00	$1,362.64	$1,362.64	$1,250.00	$1,250.00	$1,400.00	$1,400.00	*$1,346.63*	*$1,070.50*	*$1,650.00*
6.18	Furnish and Install 10" x 6" Tee	3	Each	$1,200	$3,600	$1,434.50	$4,303.50	$1,850.00	$5,550.00	$1,600.57	$4,801.71	$1,250.00	$3,750.00	$1,500.00	$4,500.00	*$1,527.01*	*$1,250.00*	*$1,850.00*
6.19	Furnish and Install 10" x 8" Tee	1	Each	$2,130	$2,130	$1,472.50	$1,472.50	$1,665.00	$1,665.00	$1,406.24	$1,406.24	$1,250.00	$1,250.00	$1,600.00	$1,600.00	*$1,478.75*	*$1,250.00*	*$1,665.00*
6.20	Furnish and Install 12" x 6" Tee	1	Each	$2,150	$2,150	$1,759.00	$1,759.00	$2,500.00	$2,500.00	$1,768.50	$1,768.50	$1,500.00	$1,500.00	$1,600.00	$1,600.00	*$1,825.50*	*$1,500.00*	*$2,500.00*
6.20A	Furnish and install 12" x 4" Tee	3	Each	$1,510	$4,530	$2,933.00	$8,799.00	$2,200.00	$6,600.00	$1,492.49	$4,477.47	$1,350.00	$4,050.00	$1,500.00	$4,500.00	*$1,895.10*	*$1,350.00*	*$2,933.00*
6.21	Furnish and Install 16" x 6" Tee	1	Each	$3,030	$3,030	$2,877.00	$2,877.00	$3,500.00	$3,500.00	$2,949.74	$2,949.74	$2,350.00	$2,350.00	$3,000.00	$3,000.00	*$2,935.35*	*$2,350.00*	*$3,500.00*
6.21A	Furnish and Install 16" x 4" Tee	1	Each	$2,410	$2,410	$4,572.50	$4,572.50	$3,650.00	$3,650.00	$3,132.03	$3,132.03	$4,750.00	$4,750.00	$3,000.00	$3,000.00	*$3,820.91*	*$3,000.00*	*$4,750.00*

BID SCHEDULE SUMMARY CONTINUED
Hurricane Irrigation Efficiency Project - Phase 1
Hurricane City / NRCS
Bids Were Opened On: Thursday, June 27, 2024

Corrected Bid Total to Match Unit Prices

BOWEN COLLINS & ASSOCIATES

BASE BID				Engineer's Option		M&T Enterprises		Landmark Excavating		Feller Enterprises		Interstate Rock		JP Excavating		Unit Price Summary		
Item No.	Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	*Average*	*Low*	*High*
6.22	Furnish and Install 6" Cross	2	Each	$1,160	$2,320	$1,392.00	$2,784.00	$1,300.00	$2,600.00	$319.42	$638.84	$970.00	$1,940.00	$1,000.00	$2,000.00	*$996.28*	*$319.42*	*$1,392.00*
6.23	Furnish and Install 8" x 6" Cross	1	Each	$2,390	$2,390	$1,641.00	$1,641.00	$1,600.00	$1,600.00	$1,327.24	$1,327.24	$1,200.00	$1,200.00	$1,600.00	$1,600.00	*$1,473.65*	*$1,200.00*	*$1,641.00*
6.24	Furnish and Install 14" x 8" Cross	1	Each	$3,120	$3,120	$2,953.50	$2,953.50	$3,500.00	$3,500.00	$2,907.06	$2,907.06	$2,350.00	$2,350.00	$3,600.00	$3,600.00	*$3,062.11*	*$2,350.00*	*$3,600.00*
6.25	Furnish and Install 8" x 6" Reducer	3	Each	$460	$1,380	$829.80	$2,489.40	$1,100.00	$3,300.00	$730.39	$2,191.17	$830.00	$2,490.00	$1,000.00	$3,000.00	*$898.04*	*$730.39*	*$1,100.00*
6.26	Furnish and Install 10" x 8" Reducer	2	Each	$600	$1,200	$1,106.00	$2,212.00	$1,300.00	$2,600.00	$974.56	$1,949.12	$1,100.00	$2,200.00	$1,100.00	$2,200.00	*$1,116.11*	*$974.56*	*$1,300.00*
6.27	Furnish and Install 12" x 10" Reducer	1	Each	$710	$710	$1,083.00	$1,083.00	$2,000.00	$2,000.00	$1,144.53	$1,144.53	$1,050.00	$1,050.00	$1,600.00	$1,600.00	*$1,375.51*	*$1,050.00*	*$2,000.00*
6.28	Furnish and Install 14" x 12" Reducer	1	Each	$1,260	$1,260	$2,018.00	$2,018.00	$2,650.00	$2,650.00	$1,983.93	$1,983.93	$1,950.00	$1,950.00	$1,900.00	$1,900.00	*$2,100.39*	*$1,900.00*	*$2,650.00*
6.29	Furnish and Install 16" x 14" Reducer	1	Each	$2,170	$2,170	$1,840.00	$1,840.00	$2,800.00	$2,800.00	$2,143.79	$2,143.79	$1,800.00	$1,800.00	$2,200.00	$2,200.00	*$2,156.76*	*$1,800.00*	*$2,800.00*
6.30	Furnish and Install 8-in. EBAA Flex-tend Flexible Expansion Joint	4	Each	$2,500	$10,000	$11,045.00	$44,180.00	$11,100.00	$44,400.00	$12,038.91	$48,155.64	$7,100.00	$28,400.00	$10,000.00	$40,000.00	*$10,256.78*	*$7,100.00*	*$12,038.91*
6.31	Furnish and Install 10-in. EBAA Flex-tend Flexible Expansion Joint	4	Each	$2,500	$10,000	$14,372.00	$57,488.00	$14,600.00	$58,400.00	$16,040.44	$64,161.76	$8,850.00	$35,400.00	$1,400.00	$5,600.00	*$11,052.49*	*$1,400.00*	*$16,040.44*
7.1A	3/4" Service Connections (WD 305), Complete	339	Each	$2,800	$949,200	$1,898.50	$643,591.50	$2,175.00	$737,325.00	$1,023.39	$346,929.21	$1,900.00	$644,100.00	$3,500.00	$1,186,500.00	*$2,099.38*	*$1,023.39*	*$3,500.00*
7.1	1" Service Connections (WD 305), Complete	116	Each	$3,000	$348,000	$2,079.00	$241,164.00	$2,400.00	$278,400.00	$1,275.54	$147,962.64	$1,900.00	$220,400.00	$3,600.00	$417,600.00	*$2,250.91*	*$1,275.54*	*$3,600.00*
7.2	1.5" Service Connections (WD 305), Complete	9	Each	$3,500	$31,500	$3,306.50	$29,758.50	$3,900.00	$35,100.00	$3,009.86	$27,088.74	$3,150.00	$28,350.00	$5,200.00	$46,800.00	*$3,713.27*	*$3,009.86*	*$5,200.00*
7.3	2" Service Connections (WD 305), Complete	14	Each	$4,500	$63,000	$3,931.50	$55,041.00	$5,000.00	$70,000.00	$4,252.06	$59,528.84	$3,650.00	$51,100.00	$5,500.00	$77,000.00	*$4,466.71*	*$3,650.00*	*$5,500.00*
7.4	4" Service Connections (WD 305), Complete	9	Each	$6,500	$58,500	$4,768.00	$42,912.00	$6,300.00	$56,700.00	$6,334.29	$57,008.61	$6,350.00	$57,150.00	$8,000.00	$72,000.00	*$6,350.46*	*$4,768.00*	*$8,000.00*
8.1	1" Air Valve Vault (C/2660), Complete	11	Each	$6,500	$71,500	$11,587.00	$127,457.00	$13,000.00	$143,000.00	$9,731.72	$107,048.92	$7,350.00	$80,850.00	$6,900.00	$75,900.00	*$9,713.74*	*$6,900.00*	*$13,000.00*
8.2	2" Air Valve Vault (C/2660), Complete	7	Each	$10,000	$70,000	$12,041.00	$84,287.00	$13,500.00	$94,500.00	$10,418.42	$72,928.94	$7,350.00	$51,450.00	$10,000.00	$70,000.00	*$10,661.88*	*$7,350.00*	*$13,500.00*
9	Minor Blowoff Drain, See Detail C/2671, Complete (tees/bends of detail alre	8	Each	$7,000	$56,000	$6,546.50	$52,372.00	$7,900.00	$63,200.00	$10,235.14	$81,881.12	$7,600.00	$60,800.00	$9,100.00	$72,800.00	*$8,276.33*	*$6,546.50*	*$10,235.14*
10.1	Asphalt Replacement (3" Asphalt Thickness)	423,000	Square Feet	$4.40	$1,861,200	$3.15	$1,332,450.00	$4.95	$2,093,850.00	$4.28	$1,810,440.00	$3.05	$1,290,150.00	$2.45	$1,036,350.00	*$3.58*	*$2.45*	*$4.95*
10.2	Asphalt Replacement (2.5" Asphalt -Thickness)	131,000	Square Feet	$4.00	$524,000	$3.04	$398,240.00	$4.50	$589,500.00	$3.80	$497,800.00	$2.75	$360,250.00	$1.88	$246,280.00	*$3.19*	*$1.88*	*$4.50*
11.2	Pothole Repair (3" Asphalt add 2" Roadbase)	500	Square Feet	$5.00	$2,500	$7.85	$3,925.00	$50.00	$25,000.00	$18.40	$9,200.00	$27.00	$13,500.00	$6.10	$3,050.00	*$21.87*	*$6.10*	*$50.00*
12.1	Concrete Sidewalk Replacement	7,950	Square Feet	$16	$127,200	$8.71	$69,244.50	$17.50	$139,125.00	$6.93	$55,093.50	$11.00	$87,450.00	$10.00	$79,500.00	*$10.83*	*$6.93*	*$17.50*
12.2	Concrete Waterway Replacement	1,700	Square Feet	$16	$27,200	$17.46	$29,682.00	$40.00	$68,000.00	$15.99	$27,183.00	$17.50	$29,750.00	$11.00	$18,700.00	*$20.39*	*$11.00*	*$40.00*
13	Curb and Gutter Replacement	1,020	Linear Feet	$80	$81,600	$35.26	$35,965.20	$102.00	$104,040.00	$49.34	$50,326.80	$12.00	$12,240.00	$45.00	$45,900.00	*$48.72*	*$12.00*	*$102.00*
14	Replace Roadway Monuments	9	Each	$3,000	$27,000	$475.00	$4,275.00	$1,200.00	$10,800.00	$1,015.51	$9,139.59	$620.00	$5,580.00	$900.00	$8,100.00	*$842.10*	*$475.00*	*$1,200.00*
15	Restore 650 South Retaining Wall	1	Lump Sum	$5,000	$5,000	$16,173.00	$16,173.00	$6,000.00	$6,000.00	$4,086.51	$4,086.51	$2,900.00	$2,900.00	$12,000.00	$12,000.00	*$8,231.90*	*$2,900.00*	*$16,173.00*
16	Trench Stabilization Material	200	Cubic Yard	$70	$14,000	$46.50	$9,300.00	$290.00	$58,000.00	$29.01	$5,802.00	$38.00	$7,600.00	$60.00	$12,000.00	*$92.70*	*$29.01*	*$290.00*
17	Flowable Fill Backfill	100	Cubic Yard	$300	$30,000	$453.50	$45,350.00	$275.00	$27,500.00	$307.71	$30,771.00	$130.00	$13,000.00	$300.00	$30,000.00	*$293.24*	*$130.00*	*$453.50*
18	Non-woven Geotextile Fabric	700	Square Yard	$6	$4,200	$3.65	$2,555.00	$2.00	$1,400.00	$7.31	$5,117.00	$2.25	$1,575.00	$5.00	$3,500.00	*$4.04*	*$2.00*	*$7.31*
19	30" D50 Riprap	1,290	Cubic Yard	$94	$121,260	$70.70	$91,203.00	$98.00	$126,420.00	$59.73	$77,051.70	$48.00	$61,920.00	$40.00	$51,600.00	*$63.29*	*$40.00*	*$98.00*
20	Sewer Lateral Connection	5	Each	$5,000	$25,000	$1,353.00	$6,765.00	$3,600.00	$18,000.00	$1,224.33	$6,121.65	$4,600.00	$23,000.00	$3,200.00	$16,000.00	*$2,795.47*	*$1,224.33*	*$4,600.00*
21	Water Service Connection	5	Each	$3,000	$15,000	$1,605.00	$8,025.00	$1,800.00	$9,000.00	$5,612.84	$28,064.20	$3,300.00	$16,500.00	$4,500.00	$22,500.00	*$3,363.57*	*$1,605.00*	*$5,612.84*
22	Rock Excavation	1,800	Cubic Yard	$70	$126,000	$25.75	$46,350.00	$140.00	$252,000.00	$10.90	$19,620.00	$64.50	$116,100.00	$20.00	$36,000.00	*$52.23*	*$10.90*	*$140.00*
23	Public Information Program Allowance	1	Lump Sum	$200,000	$200,000	$200,000.00	$200,000.00	$200,000.00	$200,000.00	$200,000.00	$200,000.00	$200,000.00	$200,000.00	$200,000.00	$200,000.00	*$200,000.00*	*$200,000.00*	*$200,000.00*
24	Temporary Environmental Control Fencing, detail C/2273	1,000	Linear Feet	$15	$15,000	$6.40	$6,400.00	$20.00	$20,000.00	$4.07	$4,070.00	$7.55	$7,550.00	$5.00	$5,000.00	*$8.60*	*$4.07*	*$20.00*
	TOTAL				$9,338,070.00		$9,313,434.41		$10,600,795.00		$9,391,071.61		$7,859,191.00		$8,992,510.00	*$9,231,400.40*	*$7,859,191.00*	*$10,600,795.00*
	DIFFERENCE FROM LOW BID:				**$1,478,879**		**$1,454,243**		**$2,741,604**		**$1,531,881**		**$0**		**$1,133,319.00**			
	% DIFFERENCE FROM LOW BID:				**18.82%**		**18.50%**		**34.88%**		**19.49%**		**0.00%**		**14.42%**			

Updated: June 28, 2024

Construction Schedule Review

Contractor	Finish Before Required Date	Start Date	End Date	Duration (Wks)	2024						2025												2026				
					JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
M&T Enterprises	yes	12-Aug-24	9-Feb-26	72																							
Landmark Excavating	yes	3-Sep-24	30-Jan-26	64																							
Feller Enterprises	yes	23-Oct-24	28-Jul-25	38																							
Interstate Rock	yes	16-Aug-24	24-Nov-25	62																							
JP Excavating	yes	5-Aug-24	22-Dec-25	68																							

HURRICANE CITY
UTAH

STAFF COMMENTS

Consideration and possible approval of a **bid to construct the irrigation pond, filters, and booster station** for the irrigation expansion project - Ken Richins

Discussion:
On July 16,2024, the Water Department held a bid opening for the irrigation ponds, filter and pump station. The winning bid was Interstate Rock for$ 7,960,938.50.
Alpha Engineering the engineer for this project recommend to the city council to award the project to Interstate Rock.
The water board discussed this on July 30, 2024, and there was a consensus that the bid be awarded to the low bidder Interstate Rock. - Ken Richins

Findings:

Recommendation:

Attachments:
1. Recommendation from Alpha Engineering - Pump station & bonds

ALPHA ENGINEERING
43 South 100 East, Suite 100
St George, Utah 84770
T 435.628.6500
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alphaengineering.com

August 8, 2024

Hurricane City Water Department
Attention: Ken Richins
646 West 600 North
Hurricane, Utah 84737

Re: Hurricane Irrigation Efficiency Project – Pump Station & Ponds Bid Recommendation

Dear Ken:

Bids were received for the Hurricane Irrigation Efficiency Project – Pump Station & Ponds on July 16, 2024 at 2:00 p.m. at the Hurricane City offices. Four bids were received for the project. After reviewing the submitted bids and the unit costs of the low bid in comparison to other bids received, there are not any major discrepancies. Interstate Rock also provided the required Statement of Qualifications and an acceptable schedule with the bid documents.

We recommend approval of the lowest bidder, Interstate Rock Products, Inc. to be the contractor for the Hurricane Irrigation Efficiency Project – Pump Station & Ponds at the total bid price of $7,960,938.50

The bid tabulation is attached for your reference.

Let me know if I can provide any additional information.

Sincerely,

Glen E. Carnahan, P.E.
ALPHA ENGINEERING COMPANY

Encl: Bid Tabulation Sheet
Schedule

City of Hurricane
Hurricane Irrigation Efficiency Project - Pump Station Ponds
Bid Tabulation - July 16, 2024

BID SCHEDULE

				IRP		Whitaker		PCI		Feller Enterprises		Average Unit Prices
Item	**Description**	**Quantity**	**Units**	**Unit Price**	**Total**	**Unit Price**	**Total**	**Unit Price**	**Total**	**Unit Price**	**Total**	
1	Moblization	1	L.S.	$236,000.00	$236,000.00	$471,000.00	$471,000.00	$475,000.00	$475,000.00	$200,000.00	$200,000.00	$345,500.00
2	Removals	1	L.S.	$1,750.00	$1,750.00	$42,700.00	$42,700.00	$23,000.00	$23,000.00	$36,389.32	$36,389.32	$25,959.83
3	Site Grading - Cut	92,565	C.Y.	$8.75	$809,943.75	$9.70	$897,880.50	$4.40	$407,286.00	$12.46	$1,153,359.90	$8.83
4	Site Grading - Fill	981	C.Y.	$7.25	$7,112.25	$7.90	$7,749.90	$3.50	$3,433.50	$7.94	$7,789.14	$6.65
5	Pump Station	1	L.S.	$2,314,500.00	$2,314,500.00	$2,363,000.00	$2,363,000.00	$3,000,000.00	$3,000,000.00	$3,446,086.02	$3,446,086.02	$2,780,896.51
6	3-MG Reinforced Concrete Settling Pond	2	Each	$983,500.00	$1,967,000.00	$869,000.00	$1,738,000.00	$1,200,000.00	$2,400,000.00	$966,581.50	$1,933,163.00	$1,004,770.38
7	Concrete Apron and headwall	1	L.S.	$41,200.00	$41,200.00	$32,500.00	$32,500.00	$46,000.00	$46,000.00	$55,231.56	$55,231.56	$43,732.89
8	Furnish & Install Retention Basin Riprap	1,050	S.F.	$3.40	$3,570.00	$4.00	$4,200.00	$10.44	$10,962.00	$14.49	$15,214.50	$8.08
9	Furnish & Install 6" Road Base and 2" Gravel Surfacing	63,200	S.F.	$1.30	$82,160.00	$1.50	$94,800.00	$1.00	$63,200.00	$1.74	$109,968.00	$1.39
10	Furnish & Install Electrical Service to Pump Station	1	L.S.	$333,000.00	$333,000.00	$249,000.00	$249,000.00	$253,344.00	$253,344.00	$262,823.53	$262,823.53	$274,541.88
11	Furnish & Install 30" Ductile Iron Pipe with Polyethylene Encasement	2,884	L.F.	$510.00	$1,470,840.00	$515.00	$1,485,260.00	$467.00	$1,346,828.00	$501.71	$1,446,931.64	$498.43
12	Furnish & Install 30-Inch Flanged Butterfly Valve	2	Each	$30,500.00	$61,000.00	$24,300.00	$48,600.00	$26,000.00	$52,000.00	$31,387.04	$62,774.08	$28,046.76
13	Furnish & Install 30-Inch Flanged Gate Valve	2	Each	$64,700.00	$129,400.00	$70,200.00	$140,400.00	$60,000.00	$120,000.00	$69,078.74	$138,157.48	$65,994.69
14	Furnish & Install 30" x 30" Flanged Tee	1	Each	$11,700.00	$11,700.00	$11,700.00	$11,700.00	$12,000.00	$12,000.00	$12,847.44	$12,847.44	$12,061.86
15	Furnish & Install 30" Flanged 45 Degree Wye	1	Each	$18,600.00	$18,600.00	$19,900.00	$19,900.00	$19,000.00	$19,000.00	$19,805.41	$19,805.41	$19,326.35
16	Furnish & Install 30" MJ 45 Degree Elbow	6	Each	$8,050.00	$48,300.00	$11,300.00	$67,800.00	$8,115.00	$48,690.00	$7,138.41	$42,830.46	$8,650.85
17	Furnish & Install 30" MJ 90 Degree Elbow	4	Each	$8,650.00	$34,600.00	$13,200.00	$52,800.00	$8,725.00	$34,900.00	$7,941.87	$31,767.48	$9,629.22
18	Furnish & Install 30" FL x MJ Adaptor	8	Each	$6,550.00	$52,400.00	$7,530.00	$60,240.00	$8,725.00	$69,800.00	$5,457.74	$43,661.92	$7,065.69
19	Furnish & Install 30" Canal Gate	2	Each	$42,300.00	$84,600.00	$71,200.00	$142,400.00	$48,000.00	$96,000.00	$44,755.51	$89,511.02	$51,563.88
20	Furnish & Install Inlet Structure	2	Each	$23,700.00	$47,400.00	$28,300.00	$56,600.00	$32,000.00	$64,000.00	$32,667.32	$65,334.64	$29,166.83
21	Furnish & Install Outlet Structure	2	Each	$43,900.00	$87,800.00	$51,700.00	$103,400.00	$38,000.00	$76,000.00	$18,486.02	$36,972.04	$38,021.51
22	Furnish & Install 4" SDR-35 PVC Drainpipe	200	L.F.	$45.50	$9,100.00	$85.50	$17,100.00	$65.00	$13,000.00	$38.51	$7,702.00	$58.63
23	Furnish & Install 4" Cleanout	2	Each	$1,650.00	$3,300.00	$1,910.00	$3,820.00	$785.00	$1,570.00	$2,119.40	$4,238.80	$1,616.10
24	Furnish & Install 6' Galvanized Chain Link Security Fence	2,825	L.F.	$36.50	$103,112.50	$35.50	$100,287.50	$34.00	$96,050.00	$38.00	$107,350.00	$36.00
25	Furnish & Install 16' Chain Link Security Gate	1	Each	$2,550.00	$2,550.00	$2,450.00	$2,450.00	$2,500.00	$2,500.00	$3,148.32	$3,148.32	$2,662.08
26	Furnish & Install Tortoise Fence	1	L.F.	$14.50	N/A	$11.50	N/A	$12.00	N/A	$14.57	N/A	$13.14
	Total Bid Schedule				$7,960,938.50		$8,213,587.90		$8,734,563.50		$9,333,057.70	

Corrected Bid Total

ALPHA ENGINEERING

HURICANE CITY IRRIGATION EFFICIENCY PUMP STATION PONDS

Gantt Chart

16-Jul-24 08:57

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish
HCPUMPSTATION	HURICANE CITY IRRIGATION EFFICIENCY PUMP STATION & PONDS	201	201	05-Aug-24	15-May-25
HCPUMPSTATION.1	MILESTONES	201	201	05-Aug-24	15-May-25
MS-100	NTP	1	1	05-Aug-24*	05-Aug-24
MS-110	CONSTRUCTION DURATION	176	176	06-Aug-24	11-Apr-25
MS-120	SUBSTANTIAL COMPLETION	1	1	14-Apr-25	14-Apr-25*
MS-130	PUNCHLIST	22	22	15-Apr-25	14-May-25
MS-140	FINAL COMPLETION	1	1	15-May-25	15-May-25
HCPUMPSTATION.2	PRECON	154	154	05-Aug-24	11-Mar-25
HCPUMPSTATION.2.1	SUBMITTALS	10	10	06-Aug-24	19-Aug-24
SUB-100	PUMPS	10	10	06-Aug-24	19-Aug-24
HCPUMPSTATION.2.2	REVIEW / APPROVE	5	5	20-Aug-24	26-Aug-24
REV-100	PUMPS	5	5	20-Aug-24	26-Aug-24
HCPUMPSTATION.2.3	PROCUREMENT	154	154	05-Aug-24	11-Mar-25
PROC-100	PUMPS	154	154	05-Aug-24	11-Mar-25
HCPUMPSTATION.3	CONSTRUCTION	182	182	06-Aug-24	21-Apr-25
HCPUMPSTATION.3.1	SITE WORK	182	182	06-Aug-24	21-Apr-25
CON-100	MOBILIZATION	3	3	06-Aug-24	08-Aug-24
CON-110	SITE GRADING	54	54	09-Aug-24	24-Oct-24
CON-120	PUMP STATION GRADING	10	10	16-Aug-24	29-Aug-24
CON-130	30" DUCTILE IRON PIPE	40	40	30-Aug-24	25-Oct-24
CON-140	ELECTRICAL SERVICE TO PUMP STATION	30	30	28-Oct-24	09-Dec-24
CON-150	ELECTRICAL POWER COMMISION	15	15	10-Dec-24	31-Dec-24
CON-160	MAINTANENCE ROAD	6	6	14-Apr-25	21-Apr-25
HCPUMPSTATION.3.2	PUMP STATION	158	158	30-Aug-24	11-Apr-25
PUMP-110	UNDERGROUND PIPING & ELECTRICAL ROUGH-IN	36	36	30-Aug-24	21-Oct-24
PUMP-120	CAST-IN-PLACE CONCRETE (FOOTINGS/SLAB/WALLS/ROOF)	44	44	22-Oct-24	23-Dec-24
PUMP-130	MECHANICAL PIPING & ELECTRICAL	36	36	24-Dec-24	12-Feb-25
PUMP-150	INSTALL PUMPS	4	4	12-Mar-25	17-Mar-25
PUMP-160	FINISH ELECTRICAL / HVAC / SCADA	10	10	18-Mar-25	31-Mar-25
PUMP-170	START-UP	5	5	01-Apr-25	07-Apr-25
PUMP-180	PUMP STATION SITE CONCRETE FLATWORK	4	4	08-Apr-25	11-Apr-25
HCPUMPSTATION.3.3	SETTLING PONDS	118	118	25-Oct-24	10-Apr-25
POND-100	FINISH SUBGRADE - NORTH	7	7	25-Oct-24	04-Nov-24
POND-110	AGGREGATE BASE - NORTH	7	7	05-Nov-24	14-Nov-24
POND-120	FORM / IRON / POUR / STRIP - NORTH	45	45	15-Nov-24	17-Jan-25
POND-130	FINISH SUBGRADE - SOUTH	7	7	20-Jan-25	28-Jan-25
POND-140	AGGREGATE BASE - SOUTH	7	7	29-Jan-25	06-Feb-25
POND-150	FORM / IRON / POUR / STRIP - SOUTH	45	45	07-Feb-25	10-Apr-25

	June 2024					July 2024	
19	26	02	09	16	23	30	07	14

Remaining Level of Effort | Actual Work | Critical Remaining Work
Actual Level of Effort | Remaining Work | ◆ Milestone

TASK filter: All Activities