

309 East Morehead Street, Suite 220  
Charlotte, NC 28202

T: 704.358.7204



May 1, 2023

Justin Webster, PE  
Project Manager  
5100 Brookshire Boulevard  
Charlotte, NC 28216

158360

Subject: Mallard Creek NPW/PW System Improvements – Recommendation of Award

Dear Mr. Webster,

The Mallard Creek Non-Potable Water/Potable Water (NPW/PW) System Improvements project involves the restoration of several non-operable valves, addition of missing valve tags, installation of approximately 20 linear feet of NPW piping for system resiliency, and addition of a new NPW backflow preventer. Formal bids for this project were submitted on April 26, 2023 by two (2) General Contractors.

Brown and Caldwell's review revealed no accounting errors in either BW Service Solutions or Gilbert Engineering's Bid Forms. The attached certified bid tabulation summarizes the total bid price proposals. The apparent low bid was submitted by BW Service Solutions. All other information required for submission of their Bid was reviewed and deemed responsive thereby making BW Service Solutions the apparent lowest bidder.

Brown and Caldwell recommends that Charlotte Water award the project to BW Service Solutions in the amount of \$699,772.22 of which \$91,274.64 is contingency requiring Charlotte Water's authorization before proceeding with work.

Brown and Caldwell appreciates that Charlotte Water has requested our services in assisting with this project. Should you have any questions, please do not hesitate to call me at 704-251-9394 or by email at [lreid@brwnncald.com](mailto:lreid@brwnncald.com).

Very truly yours,

**Brown and Caldwell**

A handwritten signature in black ink that reads "Laura K. Reid". The signature is fluid and cursive, with the first letters of each word being capitalized and prominent.

Laura Reid PE, Project Manager

cc: George Anipsitakis, PHD, PE, Brown and Caldwell

Item	Description	Qty	Unit	BW Solutions		Gilbert Engineering	
				Unit Pricing	Total	Unit Pricing	Total
1	Mobilize to Site	1	LS	\$33,420.00	\$ 33,420.00	\$ 23,800.00	\$ 23,800.00
2	Furnish and install valve tags	88	EA	\$ 59.74	\$ 5,257.12	\$ 85.00	\$ 7,480.00
3	Furnish and install replacement valves for PW/NPW system (excluding backflow preventer assembly)	25					
A	2-INCH GATE VALVE	6	EA	\$ 5,106.56	\$ 30,639.36	\$ 2,260.00	\$ 13,560.00
B	3-INCH GATE VALVE	1	EA	\$ 4,475.27	\$ 4,475.27	\$ 3,220.00	\$ 3,220.00
C	4-INCH GATE VALVE	4	EA	\$ 5,966.71	\$ 23,866.84	\$ 3,610.00	\$ 14,440.00
D	6-INCH GATE VALVE	2	EA	\$ 5,023.81	\$ 10,047.62	\$ 4,380.00	\$ 8,760.00
E	8-INCH GATE VALVE	6	EA	\$ 6,028.91	\$ 36,173.46	\$ 6,600.00	\$ 39,600.00
F	10-INCH GATE VALVE	3	EA	\$ 9,305.51	\$ 27,916.53	\$ 10,850.00	\$ 32,550.00
G	2-INCH BALL VALVE	1	EA	\$ 3,819.77	\$ 3,819.77	\$ 3,500.00	\$ 3,500.00
H	4-INCH BALL VALVE	1	EA	\$ 4,471.82	\$ 4,471.82	\$ 3,900.00	\$ 3,900.00
I	6-INCH PLUG VALVE	1	EA	\$ 7,573.17	\$ 7,573.17	\$ 5,130.00	\$ 5,130.00
4	Furnish and install concrete collars for existing valves	6	EA	\$ 248.00	\$ 1,488.00	\$ 75.00	\$ 450.00
5	Realign valves not currently aligned over operator	6	EA	\$ 675.00	\$ 4,050.00	\$ 700.00	\$ 4,200.00
6	Valve box and collar extension	1	EA	\$ 1,350.00	\$ 1,350.00	\$ 850.00	\$ 850.00
7	Raise/Straighten hydrants	1	EA	\$ 1,350.00	\$ 1,350.00	\$ 1,550.00	\$ 1,550.00
8	Replace hydrants	2	EA	\$ 6,452.45	\$ 12,904.90	\$ 6,035.00	\$ 12,070.00
9	Furnish and install hydrant isolation valves	10					
A	2-INCH GATE VALVE	2	EA	\$ 4,431.56	\$ 8,863.12	\$ 2,260.00	\$ 4,520.00
B	3-INCH GATE VALVE	1	EA	\$ 4,475.27	\$ 4,475.27	\$ 3,220.00	\$ 3,220.00
C	4-INCH GATE VALVE	1	EA	\$ 4,616.72	\$ 4,616.72	\$ 3,610.00	\$ 3,610.00
D	6-INCH GATE VALVE	1	EA	\$ 5,023.82	\$ 5,023.82	\$ 4,300.00	\$ 4,300.00
E	8-INCH GATE VALVE	5	EA	\$ 6,028.91	\$ 30,144.55	\$ 6,240.00	\$ 31,200.00
10	Furnish and install a new backflow preventer assembly	1	LS	\$43,974.65	\$ 43,974.65	\$ 11,925.00	\$ 11,925.00
11	Furnish and install a new magmeter including piping, isolation valves, dismantling joint, and fittings	1	LS	\$ 1,350.00	\$ 1,350.00	\$ 62,860.00	\$ 62,860.00
12	Furnish and install new ductile iron piping	1	LS	\$31,487.90	\$ 31,487.90	\$ 27,900.00	\$ 27,900.00
13	Perform wet-tap tie-in connections into the existing NPW piping system	1	LS	\$12,242.80	\$ 12,242.80	\$ 18,800.00	\$ 18,800.00
14	Construct a new cast-in-place concrete pad for the new backflow preventer piping assembly and building	1	LS	\$44,112.00	\$ 44,112.00	\$ 10,900.00	\$ 10,900.00
15	Procure and install a pre-engineered FRP enclosure	1	LS	\$93,100.00	\$ 93,100.00	\$132,350.00	\$132,350.00
16	Install all electrical and instrumentation wiring, conduits, supports, appurtenances, terminations, perform switchover and testing	1	LS	\$32,047.05	\$ 32,047.05	\$ 78,620.00	\$ 78,620.00
17	Systems integration services and furnishing of instrumentation by CITI	1	LS	\$48,005.00	\$ 48,005.00	\$ 48,005.00	\$ 48,005.00
18	Repair concrete curb and gutter	1	LS	\$ 1.00	\$ 1.00	\$ 5,670.00	\$ 5,670.00
19	Demolish the existing NPW enclosure and above ground piping. Demolish the existing chlorine analyzer, piping, sample sink, and closet.	1	LS	\$ 2,700.00	\$ 2,700.00	\$ 4,800.00	\$ 4,800.00
20	Concrete and pavement repairs	35	SF	\$ 170.00	\$ 5,950.00	\$ 45.00	\$ 1,575.00
21	Asphalt Patching	104	SF	\$ 63.46	\$ 6,599.84	\$ 27.50	\$ 2,860.00
22	Exploratory investigation allowance for unknown valve details	1	LS	\$25,000.00	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00
23	CONTRACT SUBTOTAL			N/A	\$608,497.58	N/A	\$653,175.00
24	Contingency Allowance	15%		N/A	\$ 91,274.64	N/A	\$ 97,976.25
Total Base Bid (Items 23 and 24)				N/A	\$699,772.22	N/A	\$751,151.25

I hereby certify that the above bid tabulation is a correct tabulation of the bids received on Wednesday, April 26, 2023 for the Mallard Creek WRF NPW/PW System Improvements project.

