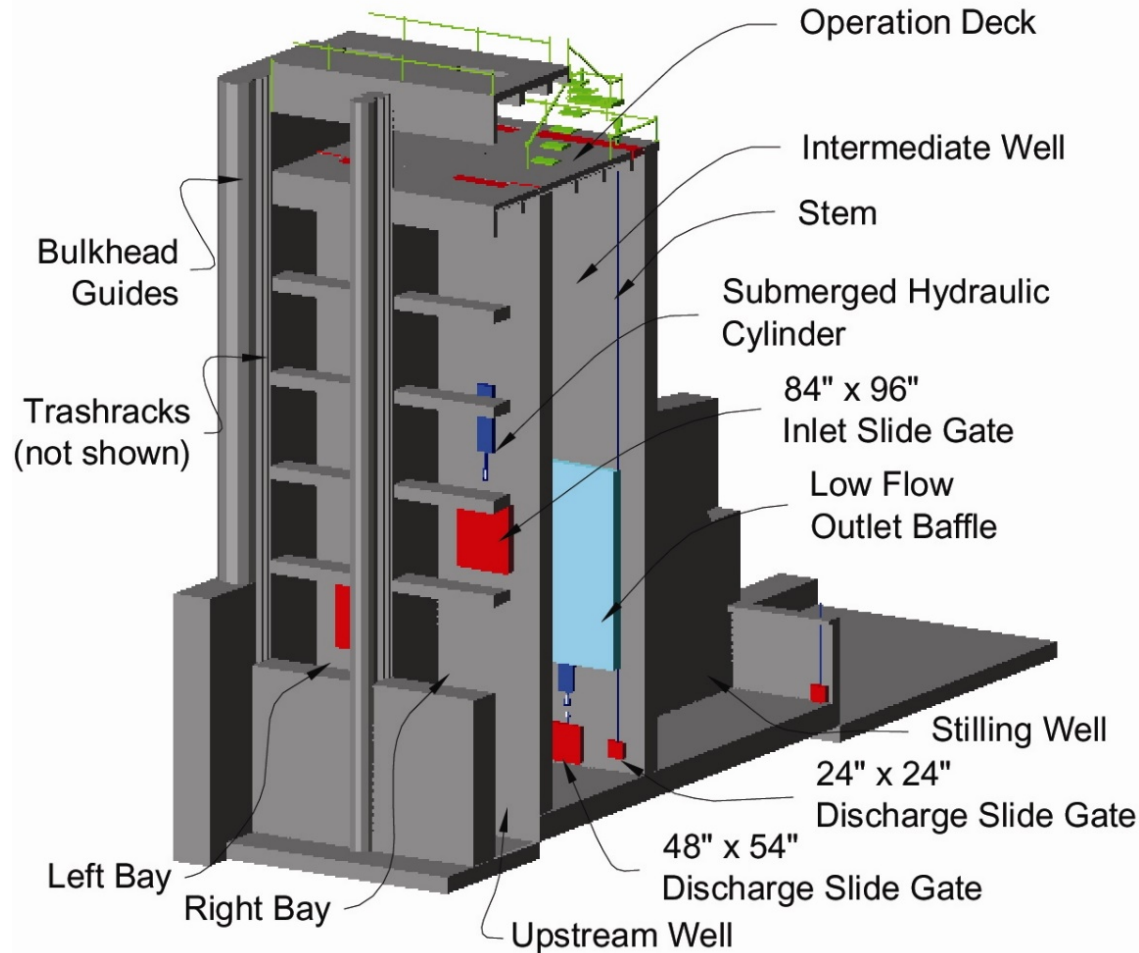




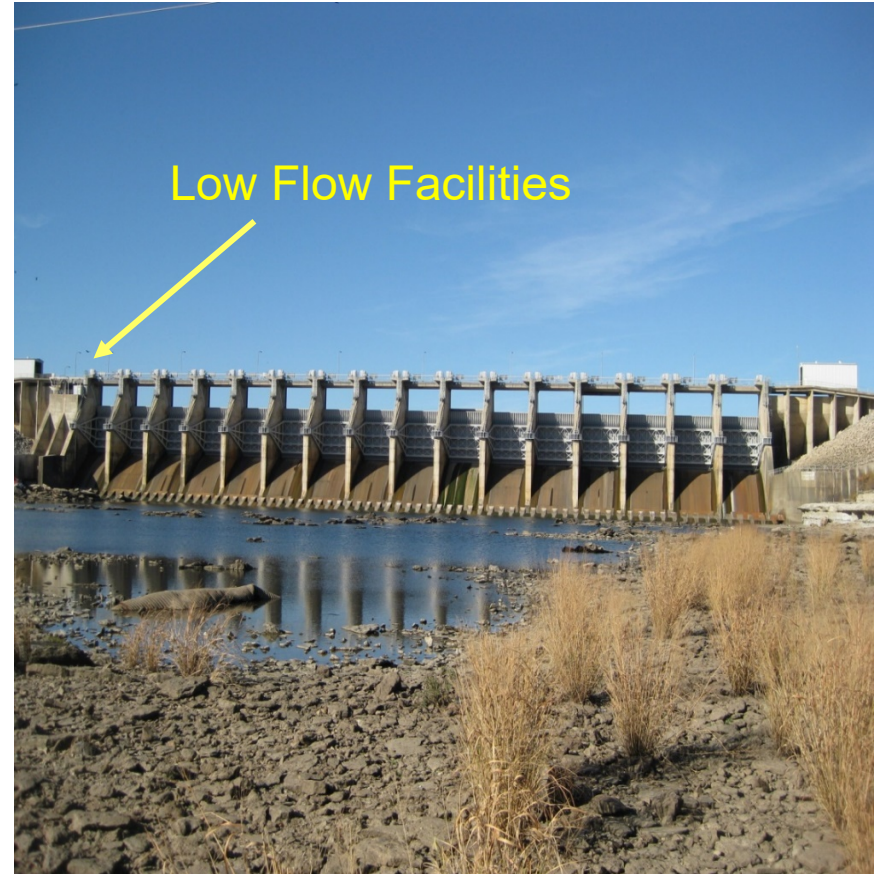
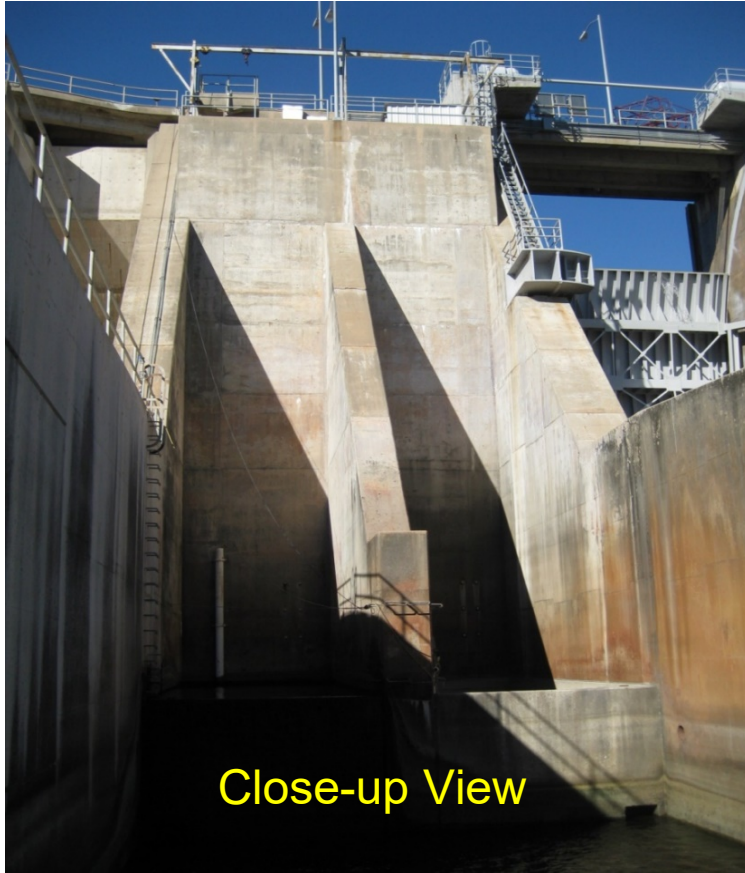
Lake Granbury Low Flow Facilities

***Presented by
Michael McClendon
Upper Basin Regional Manager***

Meeting Date: November 15, 2021



Downstream view (backside of dam)





Project Progression

Oct. 2019: BRA Executed PSA with Gannet Fleming

Aug. 2021: Posted RFB for Repair Work

Sept. 2021: Marine Diving Solutions (MDS) Site Visit

Nov. 2021: MDS Submittal of Revised bid

Nov. 2021: Seek authorization to Execute Construction Contract with MDS

“BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to execute a contract with Marine Diving Solutions LLC for construction services at De Cordova Bend Dam for an amount not to exceed \$1,990,750.

“BE IT FURTHER RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to approve Change Orders as deemed appropriate by the General Manager/CEO, subject to the aforementioned not to exceed value.”



**Brazos
River
Authority**



Settlement

- Demand Prior to Mediation: **\$1,095,300**

- Mediated Settlement: **\$1,062,643**
 - AUI: **\$562,643** (\$350,000 + retainage)
 - HyrdoGate: **\$375,000** (\$225,000 + value of gates)
 - FNI: **\$125,000** (Cash recovery)
 - After Mediation **\$1,062,643**

- FNI: Waiver of Claim **\$422,688**

The Bid

Respondent		Marine Diving Solutions			
Item #	Description	Quantity	Original Bid Amount	Revised Bid Amount	Change in Bid
1	Mobilization	1	\$150,000.00	\$145,000	(\$5,000)
2	Demobilization	1	\$50,000.00	\$50,000	\$0
3	Bonds and Insurance	1	\$62,500.00	\$46,250	(\$16,250)
4	Temporary Facilities and Control	1	\$75,000.00	\$75,000	\$0
5	Video Monitoring	1	\$20,000.00	\$22,500	\$2,500
6	Seal Stoplogs	1	\$100,000.00	\$30,000	(\$70,000)
7	Dewatering	1	\$80,000.00	\$25,000	(\$55,000)
8	Temperature and Humidity Monitoring	1	\$40,000.00	\$40,000	\$0
9	Demolition/ Salvage of Gates 5 & 6	1	\$300,000.00	\$300,000	\$0
10	Recoating Thimbles and Frames	1	\$207,000.00	\$207,000	\$0
11	Demolition/ Salvage of Exiting HPU	1	\$50,000.00	\$30,000	(\$20,000)
12	New HPU and Control Panel Installed	1	\$850,000.00	\$400,000	(\$450,000)
13	Reconnect Power, Network and Position Transducer Cables	1	\$100,000.00	\$50,000	(\$50,000)
14	Installation of Owner Provided Gates	1	\$300,000.00	\$300,000	\$0
15	Replace Gate 5 & 6 Ladder Center Safety Rail	1	\$25,000.00	\$25,000	\$0
16	Replace Gate 3 Seal System	1	\$50,000.00	\$25,000	(\$25,000)
17	Flush & Vent Existing Hydraulic Lines	1	\$125,000.00	\$100,000	(\$25,000)
18	Field Operational Testing - Gates	1	\$25,000.00	\$25,000	\$0
19	Field Operational Testing & Training SMCS	1	\$20,000.00	\$20,000	\$0
20	Clean and Passivate Existing Stems and Guides	1	\$100,000.00	\$75,000	(\$25,000)
			\$2,729,500.00	\$1,990,750	(\$738,750)



Project Purpose

- **Remediate LG Low Flow Outlet Works to fully operational**
- **Replace two 84"x96" cast iron head gates with stainless steel gates – Provided by Hydrogate**
- **Remove and replace existing Hydraulic Power Unit**
- **Replace or recoat various components**
 - **Thimbles**
 - **Guides**
 - **Seals**
 - **Ladder Safety Rails**



Project Approach

- **Gannett Fleming Inc. Contract Executed October 2019**
 - Provide Design and Bid Services
 - Provide Construction Phase Services
 - Provide Resident Project Representative (RPR)
- **Marine Diving Solutions, Inc**
 - Construction Prime Contractor
 - Will install gates provided by Hydro Gate
 - Install post installed concrete anchors as needed for construction
 - Subs – HPU, coating and electrical


Brazos River Authority

Bid Process

- **Friday, July 9, 2021: Bid Advertisement**
- **Wednesday, July 21: 2x Mandatory Virtual Pre-Bid Meetings**
 - Joshua Dade Contractors
 - Alltech Engineering
 - Marine Diving Solutions
 - Archer Western Construction
- **Wednesday, July 28: Non-Mandatory Site Visit**
 - Alltech Engineering
 - Electrical Insights
- **Monday, August 30: Bids Due**
- **Tuesday, August 31: Bid Opening**

Bid Evaluation

- **Bid Evaluation Team**
 - **Jeff Sammon** **Connie Tucker**
 - **Jon Dulus** **Kim Mayo**
 - **Jeffrey Posvar** **Mike Green**
 - **Stewart Vaghti – Gannett-Fleming**
- **Bidder Qualifications**
 - **At least 5 years of successful slide gate w/in the last 10 years; 5 years experience installing drilled in anchors**
 - **Stringent qualifications for subs**
- **Sole Bidder – Marine Diving Solutions, LLC**
- **Sole Bidder Purchasing Procedures**



Contractor Selection

- **Marine Diving Solutions, LLC (MDS)**
 - Founded in 2013
 - Marine Construction/Diving Services Co.
 - Based in Centennial, Colorado
 - Veteran Owned
 - 10 Employees
 - Principal – Ian Stephens, Owner
 - No Litigation History





Contractor Qualifications Subs

	Name of Subcontractor	Texas Contractor License Number	Location of Business	Work Activity
(1)	Self-Perform	N/A	Colorado	Post Installed Concrete Anchors
(2)	Timco Blasting & Coatings	N/A	Oklahoma	Painting
(3)	Self-Perform	N/A	Colorado	Slide Gate Installer
(4)	Motion & Flow Control Products	N/A	Colorado	Hydraulic Power Unit Manufacturer
(5)	Motion & Flow Control Products	N/A	Colorado	Control Panel Manufacturer
(6)	Cummings Electrical	17336	Texas	Electrical



BRA Factors:

1. Project has been bid multiple times; prior project contractor required settlement due to performance issues.
2. Project doesn't attract big firms; not big enough to put forward resources to it.
3. Construction contractors have ability to choose projects in current market.
4. Availability of construction laborers has been an issue.
5. Would we receive multiple bidders if rebid? Depending upon best and final bid from contractor; after vetting, BRA and consultant believe we are obtaining a qualified contractor at this time and we can move a project that has been on the books for over a decade?
6. What factors does supply chain problems affect existing and/or rebid. Contractors having to protect themselves against schedule deadlines and lack of parts to complete the job. Most will not hold parts over 30 days.
7. What are the costs associated with rebid and how does that impact budget and other planned projects on the dam?



Previous Board Action



Brazos River Authority

RESOLUTION OF THE BOARD OF DIRECTORS OF THE BRAZOS RIVER AUTHORITY OCTOBER 25, 2017

Agenda Item No. 11
DeCordova Bend Dam Low Flow Facility

"BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to enter into a contract with A2J Contractors, LLC, for an amount not to exceed \$2,504,000 to perform construction modifications to the low flow facilities at DeCordova Bend Dam."

The aforementioned resolution was approved by the Board of Directors of the Brazos River Authority on October 25, 2017, to certify which witness my hand and seal.

Christopher A. Schaefer
Presiding Officer

SUBSCRIBED AND SWORN TO BEFORE ME on this the 31st day of October, 2017, to certify which witness my hand and official seal.



Brazos River Authority

RESOLUTION OF THE BOARD OF DIRECTORS OF THE BRAZOS RIVER AUTHORITY JANUARY 30, 2017

Agenda Item No. 11
Lake Granbury Low Flow Facilities Project

"BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to negotiate and execute contracts for engineering and legal services to remodel the Lake Granbury Low Flow Facilities Project in a total not to exceed amount of \$550,000; and

BE IT FURTHER RESOLVED that the Board of Directors hereby authorizes and approves amending the Fiscal Year 2017 Budget, Lake Granbury Low Flow Facilities Project from \$356,645 to \$905,645.

The aforementioned resolution was approved by the Board of Directors of the Brazos River Authority on January 30, 2017, to certify which witness my hand and seal.

G. Dave Scott
Presiding Officer

SUBSCRIBED AND SWORN TO BEFORE ME on this the 30 day of January, 2017, to certify which witness my hand and official seal.



Jennifer L. White
Notary Public in and for the
State of Texas



Brazos River Authority

RESOLUTION OF THE BOARD OF DIRECTORS OF THE BRAZOS RIVER AUTHORITY APRIL 30, 2016

Agenda Item No. 5
Brazos River Authority's Low Flow Project at Lake Granbury

"BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to justify and take any and all actions necessary to initiate and effect resolution of the Lake Granbury Low Flow Facilities Project, either through a reasonable settlement or through litigation."

The aforementioned resolution was approved by the Board of Directors of the Brazos River Authority on April 30, 2016, to certify which witness my hand and seal.

G. Dave Scott
Presiding Officer

SUBSCRIBED AND SWORN TO BEFORE ME on this the 30 day of April, 2016, to certify which witness my hand and official seal.



Jennifer L. White
Notary Public in and for the
State of Texas



Brazos River Authority

RESOLUTION OF THE BOARD OF DIRECTORS OF THE BRAZOS RIVER AUTHORITY JULY 29, 2019

Agenda Item No. 6
Lake Granbury Project Remediation

"BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to negotiate and execute a contract with Gannett Fleming Inc. to perform engineering, construction oversight and consultant services to effectuate resolution of the De Cordova Bend Dam Low Flow Facilities in an amount not to exceed \$700,000."

The aforementioned resolution was approved by the Board of Directors of the Brazos River Authority on July 29, 2019, to certify which witness my hand and seal.

Cynthia A. Flores
Presiding Officer

SUBSCRIBED AND SWORN TO BEFORE ME on this the 29 day of July, 2019, to certify which witness my hand and official seal.



Jennifer L. White
Notary Public in and for the
State of Texas



Brazos River Authority

RESOLUTION OF THE BOARD OF DIRECTORS OF THE BRAZOS RIVER AUTHORITY OCTOBER 29, 2018

Agenda Item No. 6A
Lake Granbury Low Flow Project

"BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to negotiate and execute a contract with Gannett Fleming Inc. to perform engineering and construction oversight services at De Cordova Bend Dam to effectuate resolution of the Lake Granbury Low Flow Facilities Project in an amount not to exceed \$350,000."

The aforementioned resolution was approved by the Board of Directors of the Brazos River Authority on October 29, 2018, to certify which witness my hand and seal.

Dave Scott
Presiding Officer

SUBSCRIBED AND SWORN TO BEFORE ME on this the 29 day of October, 2018, to certify which witness my hand and official seal.



Jennifer L. White
Notary Public in and for the
State of Texas