

GARRISON DIVERSION CONSERVANCY DISTRICT**RED RIVER VALLEY COMMITTEE**

**City Commission - Meadow Lark Room
Fargo, North Dakota
November 27, 2024**

A meeting of Garrison Diversion's Red River Valley Committee was held at the Fargo City Commission, Fargo, ND, on November 27, 2024. The meeting was called to order by Chair Vein at 11:30 a.m.

MEMBERS PRESENT

Committee Chairman Ken Vein
Director Jay Anderson
Director Greg Bischoff
Director Jeff LeDoux
Director Jason Siegert
Secretary Duane DeKrey

MEMBERS ABSENT

Board Chairman Alan Walter

Garrison Diversion staff members and others were also present. A copy of the registration sheet is attached to the minutes as Annex I.

The meeting was recorded to assist with compilation of the minutes.

CONSIDERATION OF MINUTES

Motion by Director Bischoff to dispense with a reading of the September 25, 2024, Red River Valley Committee minutes and approve them as distributed. Second by Director J. Anderson. Upon voice vote, motion carried.

AGENDA CHANGE

Motion by Director Bischoff to move the User Engagement Update to the next item on the agenda. Second by Director J. Anderson. Upon voice vote, motion carried.

RED RIVER VALLEY WATER SUPPLY PROJECT UPDATE (RRVWSP)

User Engagement Update - - Steve Burian, Burian & Associates (BA), provided a summary from the update given at the Lake Agassiz Water Authority (LAWA) board meeting earlier today regarding user engagement.

Mr. Burian commented when looking at the balance of what systems are in or out right now, the total cfs for the RRVWSP is close to 159.23. The big hinge point is the City of Jamestown. If the city declines, 11 cfs is freed up, allowing for more room in the pipe. If Jamestown were to sign on to the project, and there are other bigger county nominations, then we are starting to look at pipe sizes.

Mr. Burian stated the engineering team is looking at different ways to raise the latter segments of the pipe to meet the extra needs. Nothing is currently being designed or bid that would limit the ultimate pipeline capacity.

Kip Kovar, District Engineer, Garrison Diversion, asked Black & Veatch (BV) and BA for updated graphics on this discussion, including pipe capacity and locations.

Mr. Kovar added Garrison Diversion would like it documented that others were asked if the pipeline capacity should be increased.

Director LeDoux asked, hypothetically, if there is only capacity for x amount of water, and we end up with a greater need, who makes the ultimate decision as to who gets how much water.

Mr. Burian said because systems have already nominated and signed the MOC and the Series D2 Amendment, it would most likely be first come first serve if we ran out of water.

Director Bischoff said that is also why the committee is having this discussion; so we do not short ourselves and oversell what the engineering team says can be delivered.

Construction Update - - Mr. Kovar reported the total amount of pipeline installed is approximately 13 miles. Recently, the amount of pipe being installed per week across all contracts is 3,000 to 4,000 feet.

Garney Construction (Garney) will more than likely not complete the pipe installation on Contract 5B this year. Oscar Renda Contracting and Carstensen Contracting are sitting pretty good in year one on Contracts 5C and 5D.

Work Plan Update - - Mr. Kovar stated the RRVWSP Work Plan Update dated September 6, 2024, is included in the meeting packet. This is a summary of the RRVWSP construction contracts, consisting of completed and ongoing projects. A copy of the update is attached to these minutes as Annex II.

As of today, including Contract 5A, there is approximately 12.9 miles of pipeline installed on the RRVWSP.

Contract 5B

Garney is the contractor for Contract 5B, which is nine miles of pipeline at 80 percent of completion.

Mr. Kovar commented there will be a couple of change orders coming through one last time for dewatering and top soiling on Contract 5B. These type of change orders are not being seen on Contracts 5C and 5D because the specifications were changed.

Mr. Kovar added a quality control process has been implemented where surveyors are being sent back out and checking the topsoil and checking for any defective work. He also explained a recent dewatering issue that had taken place which upset the landowner.

Red River Valley Transmission Pipeline, Contract 6A

Bid Summary

Mr. Kovar referred to the bid tab information included with the meeting materials. Bid opening for RRVWSP, Red River Valley Transmission Pipeline, Contract 6A, was held on November 7, 2024. Three bids were received: 1) Carstensen Contracting, Inc., 2) Harper Brothers Construction, LLC and 3) Oscar Renda Contracting, Inc. A copy of the bid tab summary is attached to these minutes as Annex III.

Included in the bid package was a base bid for 4.8 miles of 72-inch pipeline, along with alternative one adding 1.3 miles and alternative two adding 1 mile. This comes to a total of 7.1 miles of 72-inch pipe.

Contract 6 moves further east of Carrington. Contract 6A picks up where Contract 5C leaves off. It consists of 7 to 7.3 miles of pipe with no trenchless crossings and includes a large isolation valve.

The engineer's estimate was \$54,512,981. Carstensen Contracting, Inc. was the apparent low bidder at \$52,512,981.

Recommendation of Award

Mr. Kovar referred to the recommendation of award letter received from BV, which recommends Carstensen be awarded the base bid plus alternates one and two on Contract 6A in the amount of \$52,28,500. A copy of BV's letter is attached to these minutes as Annex IV.

Mr. Kovar stated per BV's presentation to the LAWA board today regarding the bid results and programmatic costs, a report back on what the impact of Contract 6A will be per mile, as well as the impact on the entire program, will be presented at the next meeting. Chairman Vein asked if all the wet areas have been done.

Mr. Kovar said there are other wet sections along the project route, and a task order for geotechnical services was added to better identify those areas. There may be more that need to be completed on the Eastern North Dakota Alternate Water Supply (ENDAWS) section of the project.

Chairman Vein said he is concerned with the low number of bidders and the price gaps between them. He questioned whether there will continue to be competitive bids coming in on contracts.

Paul Boersma, BV, stated they agree with that concern. A few bids have been received from Harper Brothers, and they have always been very high. They were excited when Garney bid and received Contract 5A and 5B since they are the biggest pipeline contractor in the country; however, Garney has really struggled and seem to be moving away from the pipeline business.

There have been two other bidders, which were Carstensen and Oscar Renda. BV is concerned that over the next six months, they need to be encouraging a new group of contractors and enticing them to bid.

Motion by Director Bischoff to recommend approval of the notice of award on RRVWSP Red River Valley Transmission Pipeline, Contract 6A, to Carstensen Contracting in the amount of \$52,528,500 and authorize the general manager to move forward on the contract pending submittal of the contractor's documentation. Second by Director LeDoux. Upon roll call vote, the following directors voted aye: J. Anderson, Bischoff, LeDoux, Siegert and Vein. Those voting nay: none. Absent and not voting: Walter. Motion carried.

ENDAWS Electrical Service

Mr. Kovar referred to two letters included with the meeting materials. Garrison Diversion submitted a request to the Bureau of Reclamation (Reclamation) on October 23, 2024, for confirmation in writing that the ENDAWS Project is eligible to receive federal power. Reclamation's written confirmation was received on November 11, 2024. The project will receive firm power through the Dakota Water Resources Act. Copies of the letters are attached to these minutes as Annex V.

Mr. Kovar said Garrison Diversion has begun preliminary discussions with Western Area Power Administration (WAPA), Central Power Electric Cooperative and Verendrye Electric Cooperative on the process to obtain federal power, and it was indicated the transformer alone will take five years. The draft timeline for the entire process is eight years.

Mr. Kovar added WAPA will need to perform an interconnection study, which will cost approximately \$20,000 to \$30,000.

2023-2025 Biennium Work Plan/Budget - - Mr. Kovar referred to the 2023-2025 Biennium Work Plan/Budget dated November 14, 2024, explaining the highlighted areas are items that were reduced in order to install additional pipe. A copy of the work plan is attached to these minutes as Annex VI.

Motion by Director J. Anderson to recommend approval of the updated 2023-2025 RRVWSP Biennium Work Plan to the full board. Second by Director Bischoff. Upon roll call vote, the following directors voted aye: J. Anderson, Bischoff, LeDoux, Siegert and Vein. Those voting nay: none. Absent and not voting: Walter. Motion carried.

Program Schedule - - Mr. Kovar referred to the RRVWSP Program Schedule dated September 4, 2024, which shows the timeline of the ongoing RRVWSP construction projects.

Financial Update

Federal Funding Update

Series D2 Financing Agreement

Shawn Gaddie, Advanced Engineering and Environmental Services, commented the main thing to get accomplished is getting the MOCs and Series D Small Systems Amendments in

place. There will need to be a strategy put into place letting everyone know which documents require approval by their councils/commissions. This will be discussed during the user meeting later this afternoon.

OTHER

With no further business to come before the committee, the meeting adjourned at 1:00 p.m.

Ken Vein, Chairman

Duane DeKrey, Secretary

Annex I
24-64

November 27, 2024

[illegible]

CONSTRUCTION

Pipeline Construction

Contract 5B

The original pipe delivery of June 15, 2021, was delayed due to a surface blemish in the steel coil.

In year one (2022), 7,761 feet of pipe was installed out of the total nine miles. High groundwater slowed the pipe installation progress.

In the second year (2023), 21,120 feet of pipe was installed.

In the third year (2024), using two pipe crews, approximately 18,500 feet has been installed, which completes the pipe installation.

To date, \$32,151,161.61 has been paid on the original contract amount of \$45,961,700.00. Change Orders No. 1, 2, 3 and 4 have been approved, leaving the current contract price at \$46,899,055.88.

Contract 5C

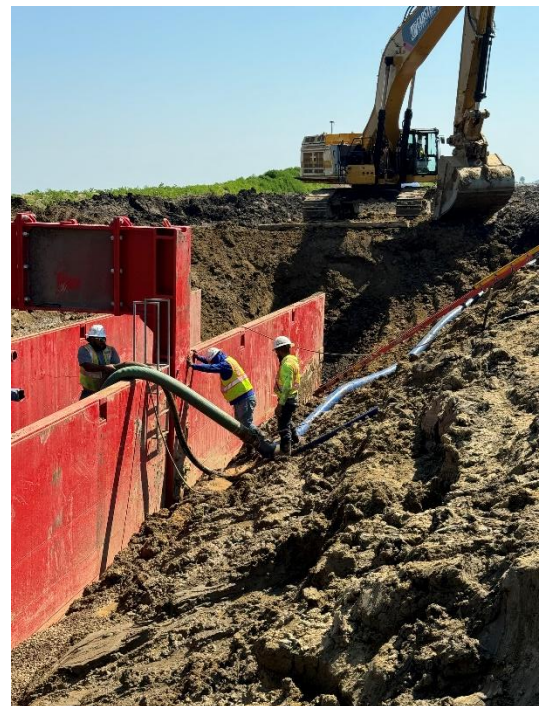
The contract price is \$76,663,355.00 for 8 miles of pipe awarded to Oscar Renda Contracting.

Oscar Renda was not meeting their install targets so a second pipe crew was sent out on July 10. To date, 19,352 feet has been installed. The Kelly Creek tunnel is complete.

To date, \$22,389,224.03 has been paid on the original contract amount of \$76,663,355.00.



Stripping Topsoil



Trench Box w/ Dewatering Pipes

Contract 5D

The contract price is \$61,677,275.00 for 10 miles of pipe awarded to Carstensen Contracting. To date, the contractor has installed 21,618 feet with one pipe crew.

To date, \$21,312,129.87 has been paid on the original contract amount of \$61,677,275.00. Change Order No. 1 has been approved, leaving the current contract price at \$59,375,495.00.



Stored Pipe on Site



Placing Dewatering Pipe

DESIGN

The design team is also working with Reclamation and USFWS on routing the ENDAWS pipeline through wetland and other various existing easements.

Bid opening on Contract 6A was held on November 7, 2024. Final design efforts have started on Contracts 7 and 4. Additional geotechnical data is complete.

RRVWSP Awarded Contracts				
No.	Contract Name	Contractor	Bid Price	Final Contract Price
1	Missouri River Intake Wet Well & Site Development	ICS	\$4,989,405.88	\$4,721,446.47
1	Sheyenne River Outlet Discharge Structure & Site Development	Industrial Builders	\$1,516,955.00	\$1,521,884.00
2	Missouri River Intake, Screen Structure & Tunnel	Michels	\$18,896,900.00	\$19,444,156.60
5A	Transmission Pipeline East (TPE)	Garney	\$8,366,201.00	\$8,393,396.44
5B	TPE Carrington to Bordulac	Garney	\$45,961,700.00	
5D	TPE Sykeston to Carrington	Carstensen	\$61,677,275.00	
5C	TPE Bordulac to James River	Oscar Renda	\$76,663,355.00	



BID TABULATION SUMMARY

Red River Valley Water Supply Project
Red River Valley Transmission Pipeline
James River to McKinnon Twp, Foster County, ND
Contract 6A, Task Order 5561



Bid Opening 2:00 p.m. CST, Thursday, November 7, 2024

No.	Bidder	Attended Pre-bid Conference	Env 1								Env 2				Base Bid	Additive Bid Alt No. 1	Total of Base Bid and Additive Bid Alt No. 1	Additive Bid Alt No. 2	Grand Total of Base Bid and Additive Bid Alt Nos. 1 & 2			
			Bid Bond Included in the Amount of 5 percent of Bid	Contractor's License or Certificate of Renewal Included	Non-Collusion Affidavit Included and Completed	EJCDC C-451 Qualifications Statement Completed	Meets General Contractor Qualification Requirements	Meets Tunneling Contractor Qualification Requirements	Proposed Subcontractors, Suppliers, and Manufacturers Questionnaire Included and Completed	Acknowledged Addendum No. 1	Acknowledged Addendum No. 2	Acknowledged Addendum No. 3	Acknowledged Addendum No. 4									
1	Carstensen Contracting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\$37,389,325.00	\$8,802,500.00	\$46,191,825.00	\$6,336,675.00	\$52,528,500.00				
2	Harper Brothers Construction	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\$54,872,280.00	\$11,763,064.00	\$66,635,344.00	\$8,295,744.00	\$74,931,088.00				
3	Oscar Renda Contracting*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\$43,139,550.00	\$9,087,300.00	\$52,226,850.00	\$6,904,800.00	\$59,131,650.00				
4														* read as \$43,053,600.00								
5																						
6																						
7																						
8																						
	Engineer's Estimate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\$37,844,273.00	\$9,488,649.00	\$47,332,922.00	\$7,180,059.00	\$54,512,981.00				
Garrison Diversion Conservancy District PO Box 140 Carrington, ND 58421 701-652-3194																			District Engineer / Deputy Director of RRVWSP for Engineering November 7, 2024			
																			Kip Kovar, PE			

Kip Kovar, PE

November 19, 2024

Garrison Diversion Conservancy District
Red River Valley Water Supply Project
Red River Valley Transmission Pipeline
Task Order 5561, Contract 6ABV Project 188972/409655
BV File 55.5561.5Mr. Duane DeKrey
General Manager
PO Box 140
Carrington, ND 58421

Dear Mr. DeKrey:

This letter provides the bid results and a recommendation of award for the Red River Valley Transmission Pipeline, Contract 6A project to Carstensen Contracting, Inc. of Dell Rapids, South Dakota.

Garrison Diversion Conservancy District held a bid opening at its Carrington office on November 7, 2024, at 2 p.m. local time. A total of three bids were received; all bids were opened and read aloud. The bid results are as follows:

Table 1 – Bid Tabulation Summary

Contractor	Base Bid (~4.8 miles of 72" pipe)	Bid Alt 1 (~1.3 miles of 72" pipe)	Bid Alt 2 (~1.0 miles of 72" pipe)	Grand Total Base Bid + Alt 1 + Alt 2 (~7.1 miles of 72" pipe)
Carstensen Contracting, Inc. Dell Rapids, SD	\$37,389,325	\$8,802,500	\$6,336,675*	\$52,528,500
Harper Brothers Construction, LLC Houston, TX	\$54,872,280	\$11,763,064	\$8,295,744	\$74,931,088
Oscar Renda Contracting, Inc. Grapevine, TX	\$43,139,550	\$9,087,300	\$6,904,800	\$59,031,650
Engineer's Estimate	\$37,844,273	\$9,488,649	\$7,180,059	\$54,512,981

* In Carstensen's Bid Form, this amount was shown as \$6,336,655 in words; however, this was resolved to the amount shown based on the summation of the prices and the figures written.

Table 2 – Bid Price Evaluation Summary

Contractor	Grand Total Base Bid + Alt 1 + Alt 2	Comparison to Engineer's Estimate
Carstensen Contracting, Inc. Dell Rapids, SD	\$52,528,500	-\$1,984,481: -3.6%
Harper Brothers Construction, LLC Houston, TX	\$74,931,088	+20,418,107: +38%
Oscar Renda Contracting, Inc. Grapevine, TX	\$59,031,650	+4,518,669: +8.3%
Engineer's Estimate	\$54,512,981	--

Carstensen Contracting, Inc. of Dell Rapids, South Dakota submitted the apparent low bid. Oscar Renda Contracting, Inc. of Grapevine, Texas submitted the apparent second low bid.

EVALUATION OF THE APPARENT LOW BIDDER'S BID

The engineer's opinion of probable construction cost (cost opinion) for the Project prepared by Black & Veatch for the Grand Total of the Base Bid plus Alternatives 1 and 2 was \$54,512,981. One bidder had a lower Bid and two bidders had higher Bids than the Black & Veatch's cost opinion. There was a \$1,984,481 or 3.64 percent difference between the apparent low bid and Black & Veatch's cost opinion. The cost opinion was \$7,650,765 or 14 percent lower than the average of the three bids received.

A comparison of the Bids shows that the overall low Bidder was also the low Bidder for the Base Bid and each of the two Bid Alternatives. For the comparison of the Grand Total of the Base Bid plus Alternatives 1 and 2, there is a difference of \$6,503,150 or 12.4 percent between the low Bid and the second low Bid. Because of this noticeable difference, Black & Veatch contacted the apparent low bidder to verify there were no errors made in preparation of its bid. Carstensen confirmed it did not have any errors in its bid and it is standing by its bid of \$54,512,981. Bidders were given 24 hours to withdrawal a bid due to a substantiated error, with return of the bid security. Garrison Diversion nor the Engineer received such notice.

Based on discussions with the apparent low bidder following the bid opening, it is Black & Veatch's opinion that Carstensen has a good understanding of the Project and the key elements thereof. A review of their unit prices indicates a distribution like other bidders. The spread between the low and second low came down to Carstensen's estimated efficiency, rate of pipe installation, and favorable terms from its steel pipe supplier, Northwest Pipe. The approximate \$7.5 million difference between the low and the second low is captured primarily in the difference in the installed price of the 72-inch transmission pipeline, Bid Item No. 2 in favor of Carstensen, and offset by Carstensen's higher unit prices for gravel road restoration and asphalt road overlay, Bid Items No. 18 and 19.

EVALUATION OF THE APPARENT LOW BIDDER'S QUALIFICATIONS

In 2023, Garrison Diversion undertook a general contractor prequalification process, where seven general contractors were prequalified for its projects, including Carstensen. Hence, a general contractor qualification submittal was not required of Carstensen for the Bid. In addition, Carstensen is currently the contractor performing the construction work on Contract 5D and is performing the work satisfactorily and on schedule.

SUMMARY AND RECOMMENDATION

Given the Engineer's review of the bids, the prequalification of Carstensen as a pipeline general contractor for the Red River Valley Water Supply Project, and their current work on Contract 5D, Black & Veatch recommends Garrison Diversion award the Project to the low bidder, Carstensen Contracting, Inc. for its Total Bid of the Base Bid plus Bid Alternatives 1 and 2 in the amount of \$52,528,500. The Total of the Base Bid plus the two alternatives is within the Project's biennium budget allocation and below the Engineer's cost opinion. Should you concur with Black & Veatch's recommendation, a Notice of Award will be prepared and forwarded to Garrison Diversion for signature. In addition, conformed copies of the Contract Documents, including the Agreement and required bonds, will be prepared, and forwarded to Carstensen for execution.

If you have any questions concerning this Recommendation of Award for the subject project, please contact us.

Sincerely,
BLACK & VEATCH CORPORATION



Kurt A. Ronnekamp
Program Manager

Enclosures

cc: Ms. Merri Mooridian, GD CD
Mr. Kip Kovar, GD CD
Mr. Paul Boersma, BV
File



GARRISON DIVERSION
CONSERVANCY DISTRICT
P.O. BOX 140
CARRINGTON, N.D. 58421
(701) 652-3194
gdcd@gdcd.org
www.garrisondiversion.org

BY EMAIL

October 23, 2024

Joe Hall, Area Manager
Bureau of Reclamation
304 East Boardway Ave.
Bismarck, ND 58501

Dear Joe:

Garrison Diversion is requesting written confirmation that the Eastern North Dakota Alternate Water Supply (ENDAWS) Project is eligible for federal power through the Western Area Power Administration (WAPA). The ENDAWS facilities are eligible for funding from the Municipal, Rural and Industrial (MR&I) Water Supply Program. These facilities include but are not limited to the biota water treatment plant, pump stations and break tanks near McClusky, North Dakota.

It is our understanding that Reclamation is to determine eligibility of the ENDAWS Project to receive federal power. If you have questions or need additional information, please contact Garrison Diversion.

Sincerely,

Duane DeKrey
General Manager

DD/las



United States Department of the Interior

BUREAU OF RECLAMATION
2021 4th Avenue North
Billings, MT 59101



IN REPLY REFER TO:

MB-4100
2.2.4.22

Mr. Duane DeKrey, General Manager
Garrison Diversion Conservancy District
PO Box 140
Carrington, ND 58241-0140

Subject: Eastern North Dakota Alternate Water Supply (ENDAWS) Project Eligibility for Federal Power, Garrison Diversion Unit, Pick-Sloan Missouri Basin Program, North Dakota

Dear Mr. DeKrey:

Reclamation is in receipt of your letter dated October 23, 2024, requesting written confirmation of the eligibility for ENDAWS to receive Federal power. This letter is to confirm ENDAWS is eligible to receive Federal power pursuant to the Dakota Water Resource Act (DWRA) of 2000, as amended, particularly, but not limited to, Sections 6 and 7 of the DWRA. The DWRA authorizes power from the Pick-Sloan Missouri Basin Program for operation of municipal, rural, and industrial systems constructed with funds authorized by Section 7 of the DWRA.

If you have any questions, please contact Mr. Nathan Kraft, at (701) 221-1254 or nkraft@usbr.gov. If you are deaf, hard of hearing, or have a speech disability, please dial 7-1-1 to access telecommunications relay services.

Sincerely,

**BRENT
ESPLIN**

Digitally signed by
BRENT ESPLIN
Date: 2024.11.19
09:00:14 -07'00'

Brent C Esplin
Regional Director
Bureau of Reclamation

INTERIOR REGION 5 • MISSOURI BASIN
INTERIOR REGION 6 • ARKANSAS-RIO GRANDE-TEXAS GULF

COLORADO*, KANSAS, MONTANA*, NEBRASKA, NORTH DAKOTA*, OKLAHOMA, SOUTH DAKOTA*, TEXAS*,
WYOMING*

* PARTIAL



2023 to 2025 Biennium Work Plan

(\$246 mil Total Funding: \$4.5M Federal; \$180M State; \$61.5M Local Users)

November 14, 2024

No.	Scope of Work	Feature	Date Task Orders Auth	Note	2023-25 Bien ENDAWS Project Development Budget (mil \$)			2023-25 Biennium RRVWSP Project Development Budget (mil \$)			2023-25 Biennium RRVWSP Project Constr Budget (mil \$) ^{1,2,3}		
					Total	Fed/Sta 75%	Local 25%	Total	State 75%	Local 25%	Total	State 75%	Local 25%
1.	Garrison Diversion Conservancy District Budget Scope: Account for all costs for which Garrison Diversion is responsible not included in other Task Orders listed here. Need: Budget allocation for GDGD direct costs associated with the Red River Valley Water Supply Project.	Garrison Diversion's costs for the RRVWSP, including internal mgmt, admin, legal, communication, insurance advisory, misc., etc.		GDGD				\$ 1.00	\$ 0.75	\$ 0.25			
	Property, Easements, and Crop Damage Payments⁴ Scope: Costs to obtain easements and acquire property for associated facilities. Crop damage payments to landowners. Need: Secure land for installing future pipeline segments staying years ahead of pipeline design/construction needs. Purchase property on which to build all remaining facilities so property will be in hand before final design begins.	Acquire easements in Sheridan and Wells County for 32-mi pipeline. Pay bonus payment to all easement holders. Acquire property for Biota WTP, Hydraulic Break Tanks, McClusky Canal Intake, and James River sites. Pay for crop damage.		RRVWSP	0.49	\$ 0.37	\$ 0.12	\$ 2.21	\$ 1.66	\$ 0.55			
2.	Transmission Pipeline East Contract 5C Scope: Pipeline installation, including construction phase engineering services by Engineer. Need: Continue progress of transmission pipeline installation for completion of RRVWSP by the target end date.	8± mi of 72" pl, including two 96" tunnels. Pipeline extends eastward from Contract 5B NE of Bordulac to a termination point just east of the James River.	Jul-23 Nov-23	Prof Srvs Const, 2026 Fin							\$ 5.64	\$ 4.23	\$ 1.41
	Transmission Pipeline East Contract 5D Scope: Pipeline installation, including construction phase engineering services by Engineer. Need: Continue progress of transmission pipeline installation for completion of RRVWSP by the target end date.	10± miles of 72" pl, including several 96" tunnels. Pipeline section extends westward from Contract 5A south of Carrington to a termination point south of Sykeston.	Jul-23 Oct-23	Prof Srvs Const, 2026 Fin							\$ 76.66	\$ 57.50	\$ 19.17
4.	RRV Transmission Pipeline Contract 6A Scope: Pipeline installation, including construction phase engineering services by Engineer. Need: Continue progress of transmission pipeline installation for completion of RRVWSP by the target end date.	6± mi of 72" pl, including several 96" tunnels. Pipeline section extends eastward from Contract 5C just east of the James River to a termination point southwest of Glenfield.	Jul-23 Dec-24	Prof Srvs Const, 2027 Fin							\$ 5.47	\$ 4.10	\$ 1.37
	ENDAWS Transmission Pipeline Contract 3 Scope: Final design (30% docs to biddable plans and specs) and bidding assistance. Need: Continue progress of transmission pipeline installation for completion of RRVWSP/ENDAWS by the target end date.	11± mi of 72" pipeline, including 96" tunnels. Pipeline section extends west from the west end of Contract 4 to the Sheridan Wells County line.	Aug-23	ENDAWS	\$ 3.06	\$ 2.29	\$ 0.76	\$ 52.53	\$ 39.40	\$ 13.13			
6.													



2023 to 2025 Biennium Work Plan

(\$246 mil Total Funding: \$4.5M Federal; \$180M State; \$61.5M Local Users)

November 14, 2024

No.	Scope of Work	Feature	Date Task Orders Auth	Note	2023-25 Bien ENDAWS Project Development Budget (mil \$)			2023-25 Biennium RRVWSP Project Development Budget (mil \$)			2023-25 Biennium RRVWSP Project Constr Budget (mil \$) ^{1,2,3}		
					Total	Fed/Sta 75%	Local 25%	Total	State 75%	Local 25%	Total	State 75%	Local 25%
7.	Transmission Pipeline East Contracts 4A and 4B Scope: Final design (30% docs to biddable plans and specs) and bidding assistance. Need: Have the next pipeline section bid-ready when State funding becomes available (likely the 2025-27 biennium).	27± mi of 72" pl, including several 96" tunnels. Pipeline extends from the west end of Contract 5D south of Sykeston west to a termination point NE of Hurdsfield at HBTs.	Feb-24	Prof Srvs				\$ 7.18	\$ 5.39	\$ 1.80			
	RRV Transmission Pipeline Contract 7 Scope: Final design (30% docs to biddable plans and specs) and bidding assistance. Need: Have the next pipeline section bid-ready when State funding becomes available (likely the 2025-27 biennium).	14± mi of 72" pipeline, including several 96" tunnels. Pipeline extends from the east end of Contract 6B to the outfall on the Sheyenne River southeast of Cooperstown.	Aug-23	Prof Srvs				\$ 2.93	\$ 2.19	\$ 0.73			
8.	McClusky Canal Intake and Pumping Station Scope: Conceptual and preliminary design of an intake and pumping station at the McClusky Canal. Need: Preliminary designs are necessary so site acquisition can begin and final design can commence when land is secured.	Siting: passive intake screens, pumping station similar to MRI, and utility extension design can begin for new facility to be located near McClusky, ND.	Feb-24	Prof Srvs	\$ 0.75	\$ 0.56	\$ 0.19						
9.	Biota Water Treatment Plant and Main Pumping Station Scope: Conceptual and preliminary designs for a Biota WTP and Main Pumping Station, including hydraulic surge facility. Need: Complete design to a point where land acquisition can begin and project can move into final design next biennium.	165-cfs biota WTP, with chlorine and UV disinfection to meet NDPDES permit and FEIS requirements per Reclamation. Chloramines for residual disinfectant in pipeline.	Feb-24	Prof Srvs	\$ 2.87	\$ 2.15	\$ 0.72						
10.	Hydraulic Break Tanks Scope: Preliminary design of above-ground tanks and associated facilities at or near the continental divide. Need: Complete design to a point where land acquisition can begin and project can move into final design next biennium.	Two 5 MG above-ground storage tanks and accessories, site piping and valves, monitoring, and utility extensions necessary for a new greenfield site.	Feb-24	Prof Srvs	\$ 0.37	\$ 0.28	\$ 0.09						
11.	PMIS Annual Licenses & Continued Maint/Upgrades Scope: Annual software license renewal for expanded team and consulting support for training and configuration services. Need: Create greater efficiency and documentation for voluminous amount of construction related documents.	Vendor fees (e-Builder & DocuSign) for licenses of expanded team and consulting support for training of contractors/ subcontractors and workflow/report additions and modifications.	Feb-24	Vend & Prof Srvs				\$ 0.50	\$ 0.37	\$ 0.12			
12.	Prg Mgmt to Support Larger Spend and Expanded Team Scope: Overall program management, planning, budgeting, scheduling, and other support for Garrison Division. Need: Consulting services of a broad programmatic nature not included under project-specific design or construction TOs.	Overall planning, management, administration, scheduling, budgeting, coordination, meeting preparation/attendance, regulatory interface, reporting, etc.	Aug-23	Prof Srvs				\$ 0.65	\$ 0.49	\$ 0.16			

Annex VI
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2023 to 2025 Biennium Work Plan

(\$246 mil Total Funding: \$4.5M Federal; \$180M State; \$61.5M Local Users)

November 14, 2024

No.	Scope of Work	Feature	Date Task Orders Auth	Note	2023-25 Bien ENDAWS Project Development Budget (mil \$)			2023-25 Biennium RRVWSP Project Development Budget (mil \$)			2023-25 Biennium RRVWSP Project Constr Budget (mil \$) ^{1,2,3}		
					Total	Fed/Sta 75%	Local 25%	Total	State 75%	Local 25%	Total	State 75%	Local 25%
14.	Outreach, Ping, and Design to Secure User Commitments Scope: User briefings and necessary support, including conceptual designs, to secure project commitments. Need: Define pipeline extensions to identify for users how and a what cost water will be delivered to their communities.	Size pipelines, pumping stations, channels, storage, etc. and other necessary infrastructure to deliver raw water to end users. Update capex to reflect current market.	Aug-23	Prof Svcs				\$ 1.69	\$ 1.27	\$ 0.42			
	Operational Planning and Asset Management Phase 3 Scope: System modeling, evaluation, planning, and report development documenting results/findings/outcomes. Need: Finalize Garrison Diversion, State Water Commission, and USACE roles for system operation.	Refine details of diversions to/from Lake Ashtabula. Finalize stakeholder roles and responsibilities as it relates to system operation.	Feb-24	Prof Svcs				\$ 0.46	\$ 0.35	\$ 0.12			
16.	Financial Planning Support Scope: Continue to refine the financial model and provide scenarios as required to support users and the program. Need: Accurate water bill estimates and affordability for customers are necessary to gain approval from users.	Update financial models; address state loan and financing program changes; end user funding, financing, and cost-share analyses; continued funding and finance outreach.	Aug-23	Prof Svcs				\$ 0.59	\$ 0.44	\$ 0.15			
	Additional End User Outreach Scope: Branch pipeline conceptual designs and other consulting assistance to potential end users. Need: Accurate water bill estimates and affordability for customers are necessary to gain approval from users.	Conceptual designs and other consulting support to support end user understanding of core pipeline and applicable branch pipeline CapEx necessary to secure MOU signatures.	Jan-25	Prof Svcs				\$ 0.50	\$ 0.38	\$ 0.13			
18.	ENDAWS BWTP Site Dev, Grading, and Tunnel Shaft Scope: Final design and bidding assistance with partial execution of the construction work by GDCC. Need: Provide site access for construction and ready site for substantial facilities construction beginning in 2028.	Access roads to proposed site of new Biota WTP, mass grading to prepare for structure construction, and temporary excavation support system for intake pumping station wetwell.	Jul-25	Prof Svcs	\$ 1.40	\$ 1.05	\$ 0.35						
	ENDAWS Biota Water Treatment Plant Piloting Scope: water treatment piloting of preliminarily selected treatment processes with a 3-month duration. Need: Process demonstration necessary to make sure water quality treatment objectives can be met with selections.	Pilot scale treatment train consisting of preliminary treatment, UV disinfection, chlorination, and residual chloramine treatment.	Apr-25	Prof Svcs	\$ 0.90	\$ 0.68	\$ 0.23						
20.	ENDAWS BWTP Geotechnical Investigation Phase 2 Scope: Additional borings and soil sampling expanding upon the initial program implemented during preliminary design. Need: More data needed to properly design foundations, structures, pavement, etc. for the new facilities.	Geotechnical borings; soil characterization, sampling and testing; and reporting to fully inform design team and contractors of on-site insitu soil characteristics.	Jul-25	Prof Svcs	\$ 0.15	\$ 0.11	\$ 0.04						

Annex VI
24-75



2023 to 2025 Biennium Work Plan

(\$246 mil Total Funding: \$4.5M Federal; \$180M State; \$61.5M Local Users)

November 14, 2024

No.	Scope of Work	Feature	Date Task Orders Auth	Note	2023-25 Bien ENDAWS Project Development Budget (mil \$)			2023-25 Biennium RRVWSP Project Development Budget (mil \$)			2023-25 Biennium RRVWSP Project Constr Budget (mil \$) ^{1,2,3}		
					Total	Fed/Sta 75%	Local 25%	Total	State 75%	Local 25%	Total	State 75%	Local 25%
21.	ENDAWS BWTP Electrical Service Extension Study Scope: Study and report of electrical service extension to serve the new biota water Treatment plant Need: There have been no recent studies of electrical service infrastructure necessary at the McClusky facilities site.	Evaluate substation needs and routing of 15 to 25 miles of high-voltage power lines to serve the new BWTP. Identify permitting and easement requirements.	Apr-25	Prof Svcs	\$ 0.45	\$ 0.34	\$ 0.11						
	ENDAWS TM Contract 2 Final Design and Bidding Asst Scope: Final design (30% docs to biddable plans and specs) and bidding assistance. Need: Have next pipeline section bid-ready so when Federal funding is secured/allocated construction can proceed.	11± mi of 72" pipeline, including 96" diameter tunnels. Pipeline extends from ND Highway 14 east to the connection point with Contract 3.	Jul-25	Prof Svcs	\$ 3.10	\$ 2.33	\$ 0.78						
21.	Contingency Scope: A budget reserve for task order additions to professional services, construction, legal, real estate, etc. TOs. Need: Address and pay for changes that are sure to occur.	Budget flexibility to adapt to work plan changes and to pay for construction change orders typically running from 3 to 5% of original construction costs at bid time.	N/A	GD CD	\$ 0.25	\$ 0.19	\$ 0.06	\$ 0.25	\$ 0.19	\$ 0.06	\$ 6.32	\$ 4.74	\$ 1.58
	TOTAL PROGRAM BUDGET				\$ 15.79	\$ 11.84	\$ 3.95	\$ 18.75	\$ 14.06	\$ 4.69	\$ 211.46	\$ 158.60	\$ 52.87

Notes:

- Construction costs include management, engineering services during construction, inspection, field quality control, and construction.
- Projects indicated for construction funding in a given biennium will be shovel ready for construction at the start of the biennium.
- Future capital costs are escalated to an anticipated midpoint of construction per Finance Team rates of 7, 6, 5, and 3.5 percent per annum thereafter starting in 2022 with an anticipated 2032 finish. All future RRVWSP construction projects and costs are not shown.
- Land services costs are the amount likely to be paid for real estate, easements, including bonus payments, crop damage, and field obstructions. Estimates include pipeline easements required for the ENDAWS east/west pipeline and remaining easements from the beginning of the Contract 4 transmission main to the Sheyenne River Outfall, with most located in Wells County.
- Items appearing in blue bold are progressing with task orders and contracts issued to the engineering team and contractors, respectively. Items appearing in blue italics have been updated to reflect adjustments made for actual amounts contracted. Items shown in black text are pending. Items shown in green are new and were added with the \$6M MR&I funding in October 2024. Items highlighted in yellow have changed from the previous version of the Work Plan.