

GARRISON DIVERSION CONSERVANCY DISTRICT

RED RIVER VALLEY COMMITTEE

ZOOM MEETING

February 1, 2023

A G E N D A

AGENDA

- 12:15 p.m. I. Call to Order and Roll Call - Ken Vein
- 12:16 p.m. II. **Consideration of Minutes** - Ken Vein
 - A. **>December 21, 2022**
- 12:17 p.m. III. Red River Valley Water Supply Project
 - A. Construction Update - Kip Kovar
 - 1. Contract 5B Transmission Pipeline East
 - a. Updated Pipeline Schedule
 - B. Contractor Claims Resolution - Paul Boersma
 - 1. **Missouri River Intake, Contract 2**
 - C. **Contracts 5C & 5D Drawings & Specs.** - Kip Kovar (*separate link*)
 - D. >Work Plan Update - Kip Kovar
 - 1. Task Orders
 - a. **>5370 Geotechnical Investigation & Reporting, Contract 7**
 - E. >2023 RRVWSP Work Plan - Kip Kovar

The following minutes are in draft form subject to review and approval by the Red River Valley Committee at its next meeting.

22-26

GARRISON DIVERSION CONSERVANCY DISTRICT

RED RIVER VALLEY COMMITTEE

**Video Conference
December 21, 2022**

Garrison Diversion Conservancy District's Red River Valley Committee met by video conference on December 21, 2022. The meeting was called to order by Chairman Greg Bischoff at 9 a.m.

DIRECTORS PRESENT

Committee Chairman Greg Bischoff
Director Jay Anderson
Director Roger Fenstad
Secretary Duane DeKrey

MEMBERS ABSENT

Board Chairman Alan Walter
Director Bill Krivarchka

OTHERS PRESENT

Staff members and others were present. A copy of the registration sheet is attached to these minutes as Annex I.

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

CONSIDERATION OF MINUTES

Motion by Director Fenstad to dispense with a reading of the October 27, 2022, Red River Valley Committee minutes and approve them as distributed. Second by Director Anderson. Upon roll call vote, motion carried.

RED RIVER VALLEY WATER SUPPLY PROJECT (RRVWSP)

Contractor Prequalification Process - - Kip Kovar, District Engineer, Garrison Diversion, referred to the Draft General Contractor Prequalification Submittal Package prepared by Black & Veatch, which pertains to the RRVWSP. He added legal counsel has reviewed and provided comments on the draft document.

Mr. Kovar stated the purpose of prequalification is to determine if the contractor meets the minimum requirements specified in the project bidding documents. The prequalification package would be sent out to contractors who would like to be prequalified to bid on RRVWSP construction projects. Once prequalified, the contractor would remain prequalified for the next four years.

Paul Boersma, Black & Veatch, said there are two benefits to using the prequalification process. It makes it easier for the owner and engineering firm from the bid evaluation phase. There is also the potential to bid a lot of pipeline work in the next four years. The best way to control costs on the RRVWSP is to have multiple competitive bids for each bid package that is advertised. This allows momentum and excitement about the RRVWSP and a reason to reach out to contractors sending the signal this is a wide-open field, and we are looking for people to bid and generate interest in the RRVWSP.

Nick Suma, Vogel Law, explained what is required in the prequalification process according to North Dakota Law.

Mr. Boersma added the prequalification process will not be used to limit the number of contractors. It will simply set a minimum bar for the contractor to demonstrate they can meet the prequalification standards.

Mr. Boersma reviewed the draft prequalification package and highlighted the procedures that will be followed with the prequalification process.

Mr. Boersma questioned whether the prequalification submittals need to be published. The preference would be to keep this information confidential.

Tami Norgard, Vogel Law, said from an open records standpoint, she did not feel it could be kept confidential. There may be some things the contractor submits that can be kept confidential, but in terms of name of the contractors who have prequalified, this would be difficult to protect.

Mr. Suma stated there is not an obligation to publish the information, but it would need to be disclosed if requested.

Mr. Boersma commented the prequalification process has been broken into two categories. One is essential requirements for prequalification, which are things that are absolutely hardline. If these requirements are not met, the contractor's application would be eliminated. The second is items to be considered during prequalification, which include legal considerations and compliance with safety, health and labor laws.

Mr. Boersma reviewed the details of both categories with the committee members and legal counsel; each providing input on various items of concern.

Mr. Boersma said he will incorporate the suggested changes from today and send back a redline version before finalizing the prequalification package.

Statement of Interest for Engineering Services

Mr. Kovar referred to the Draft Request for Statement of Interest for Professional Engineering Service for the RRVWSP, adding as the project grows, it is hoped more funding will be received from the state legislature and construction will speed up. This will cast a wider net when it comes to engineering and construction services.

Mr. Kovar said, as a result, Black & Veatch was asked to prepare a statement of interest to gauge the interest and capabilities of engineering firms with offices in North Dakota to provide various services. Firms who complete this request will start to receive future updates regarding the RRVWSP.

Mr. Boersma reviewed the draft statement and its attachments, commenting the statement of interest is not a promise of future work on the RRVWSP or a selection process. The purpose of this document is to notify the engineering community, if the RRVWSP continues to grow the way it is envisioned, of the opportunity for a variety of services that will be needed. Some of the services could involve design, material testing, soil borings, construction inspection, etc.

The committee indicated a preference toward the use of local engineering firms when, and if, possible.

Ms. Norgard pointed out there is a provision in Black & Veatch's contract stating they get to select its subcontractors. She offered to look into this further, adding there is some level of state preference they can abide by here.

Mr. Boersma stated the submitted materials will not be used to select a firm but to help Garrison Diversion and Black & Veatch better understand the interests and capabilities of engineering firms. The materials will also be used to help establish expectations for qualification in a future formal request for qualifications.

Mr. Boersma said there is a form to be filled out by the engineering firm asking for some basic information and a summary of their firm. A table of eight potential services for the RRVWSP is also included. The engineering firm should indicate "yes" on the table as to which services their firm may be interested in providing. They should then provide general qualifications for those particular services.

Mr. Boersma asked from a high-level perspective, does the committee feel this draft statement of interest is sending the right message.

The committee consensus was yes, the statement sends the right message.

Mr. Boersma said in order for the timing to be effective, the document should be sent out at the start of the legislative session.

Mr. Kovar suggested also relaying this message to the Lake Agassiz Water Authority (LAWA) Board of Directors.

Pipeline Contract 7

Mr. Kovar shared a Draft 2023-2025 RRVWSP Work Plan which shows a map of the RRVWSP. The cost of the work plan is a \$339 million. It includes design on the intake and water treatment plant at the McClusky Canal, design on ENDAWS, design on Contract 4 (Wells County), constructing Contracts 5C, D and 6 and designing Contract 7.

Mr. Kovar commented there has been discussion recently as to whether the money could be spent if additional funding was available. This question is hard to answer since there currently are not enough things shovel ready. Something that could be done this winter is the geotechnical boring in Contract 7. This would allow for final design to start in the summer to get Contract 7 shovel ready.

Kurt Ronnekamp, Black & Veatch, said if the geotechnical work is done this winter, it would cost approximately \$400,000 to \$450,000.

Chairman Bischoff asked where will the \$400,000 come from.

Mr. Kovar said there are reserves built into the work plan so funding could be obtainable; however, approval would be required from the State Water Commission (SWC). He added the application could be submitted to the SWC so the project could be ready if a decision is made to move forward.

Motion by Director Fenstad authorizing a submittal for funding to the State Water Commission for geotechnical work on RRVWSP Contract 7. Second by Director Anderson. Upon roll call vote, the following directors voted aye: Anderson, Bischoff and Fenstad. Those voting nay: none. Absent and not voting: Krivarchka and Walter. Motion carried.

There being no further business to come before the committee, the meeting was adjourned at 10:55 a.m.

(SEAL)

Greg Bischoff, Chairman

Duane DeKrey, Secretary

REGISTRATION

RED RIVER VALLEY COMMITTEE MEETING
Garrison Diversion Conservancy District

VIDEO CONFERENCE

December 21, 2022

NAME	ADDRESS
Kip Kovar	Garrison Diversion
Lisa Schafer	Garrison Diversion
Duane DeKrey	Garrison Diversion
Kimberly Cook	Garrison Diversion
Merri Mooridian	Garrison Diversion
Ashley Reisenauer	Garrison Diversion
Greg Bischoff	Garrison Diversion
Nick Suma	Vogel Law
Tami Norgard	Vogel Law
Jay Anderson	Garrison Diversion
Kurt Ronnekamp	Black & Veatch
Ken Vein	Garrison Diversion
Shawn Gaddie	Advance Engineering & Environmental Services
Dave Anderson	Garrison Diversion
Steve Metzger	Garrison Diversion
Paul Boersma	Black & Veatch

RRVWSP Work Plan Update
January 24, 2023

CONSTRUCTION

Wet Well Construction Contract 1

Defective work has been transferred to Michels, Inc. under Contract 2. The project will be closed out when final quantities are agreed upon.

Pipeline Construction

Contract 5A

Final completion has been achieved, and close out papers are being generated. To date, \$7,947,825.62 has been paid on the current contract amount of \$8,393,396.44.

Reclaimed Property



Typical Air Release Manhole



Contract 5B

The original pipe delivery of June 15 was delayed due to a surface blemish in the steel coil. To date, 6,741 feet have been installed out of the nine miles. High groundwater has slowed the pipe installation progress.

To date, \$7,446,780.51 has been paid on the original contract amount of \$45,961,700.00. Change Order No. 1 has been approved for -\$1,410,437.41 for the current contract price of \$44,551,262.59.



Example of 150-Foot ROW

Discharge Structure Construction

Final payment has been made. Original contract amount was \$1,516,955 plus Change Order No. 1 for \$4,929 for a final contract price of \$1,521,884.

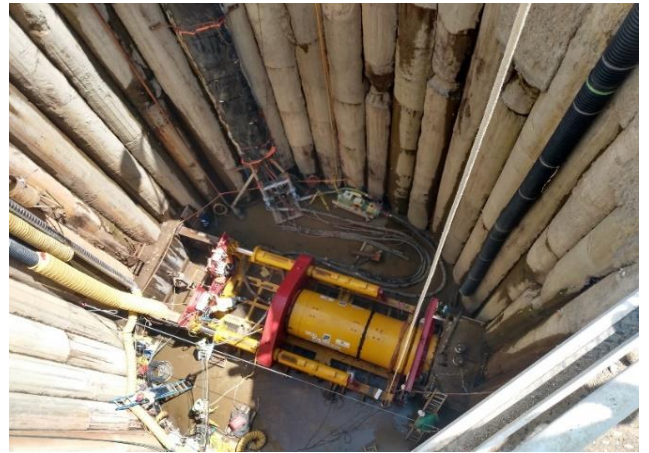
Missouri River Intake Tunnel and Screen Final Design Contract 2

As the apparent low bidder at \$18,896,900, Michels was issued notice of award on June 9, 2021. Michels is working on removing and restoring temporary construction items near the cofferdam site. Tunneling began on July 12, 2022, and holed through the cofferdam on August 6. Currently, the contractor is working on the final liner inside the wet well. To date, \$13,311,443.03 has been paid on the original contract amount of \$18,896,000.00. Three change orders have been approved for a current contract price \$19,287,359.25

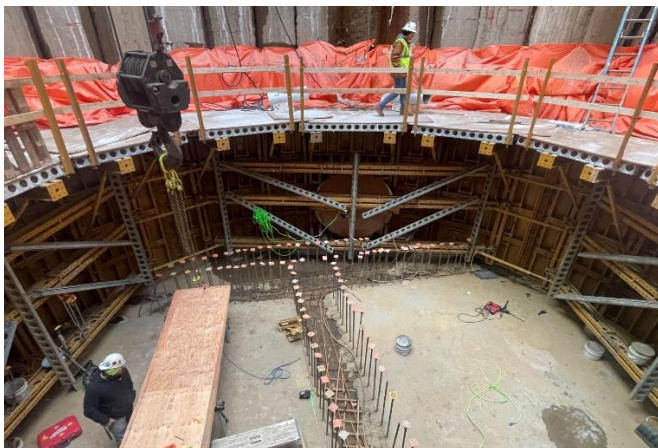
Site Overview



Launching the MTBM



Liner Work on Rebar & Concrete Forms



Winter Enclosure Structure



DESIGN

Pipeline segments 5C (8 miles), 5D (10 miles) are at 99% complete, and Contract 6 (25 miles) is at 60% complete.

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



**RRVWSP Task Order 5370 – Red River Valley Transmission Pipeline Contract 7
Geotechnical Investigation and Reporting**

Task Order Effective Date: January 15, 2023

TASK ORDER EXECUTIVE SUMMARY

REQUEST

Consideration and approval of a consultant task order in the amount of \$397,000 to conduct a supplemental geotechnical investigation for the future Red River Valley Transmission Pipeline Contract 7. Contract 7 is a 13-mile segment on the east end of Contract 6 running east to the Sheyenne River Outfall. Refer to the map included in the Task Order for the exact location. These professional services are provided on an hourly and unit cost basis; the fee is estimated based on the scope and nature of the work and an approximate 6-month schedule. Field work is scheduled to be completed in one month.

TASK ORDER OBJECTIVES

The purpose of this Task Order is to drill supplemental borings along the Preliminary Design Report alignment for Contract 7. These borings are necessary to characterize subsurface soil and groundwater conditions in areas not covered by the 2010 report. Since there is a limited window each year to complete field work due to agricultural activities, this work would proceed prior to the 2023 planting season.

Investigations will provide information for both cut-and-cover and trenchless pipeline installation methods. Trenchless installation is necessary for highway and railroad crossings as well as to avoid conflicts with wetlands. A total of 43 borings, including 1,619 vertical feet of drilling, groundwater monitoring, and laboratory testing of soil samples, are included. The results of the geotechnical investigation conducted hereunder will be utilized for design and bidding of the Contract 7 pipeline.

The information gathered from the geotechnical investigation and subsequent laboratory analysis of soil samples will be presented in a Geotechnical Report (applicable to cut-and-cover pipeline installation) and in a Geotechnical Data Report (applicable to trenchless crossing installation). The Geotechnical Report and Geotechnical Data Report will be used to prepare the Contract Documents for pipeline construction. The bidders may rely upon the technical data contained in the Geotechnical Report in preparing bids for the construction project. The Geotechnical Report will include information regarding conditions at the site, including boring logs, subsurface water levels measured in borings and piezometers, field and laboratory test methods and results, and similar factual data, all as of the dates the borings were made, and the tests performed. The separate Geotechnical Data Report will be applicable to trenchless crossings, and it will eventually be provided as a Contract Document to contractors bidding the trenchless work.

TASK ORDER SUMMARY

The services to be provided by the engineering team (Black & Veatch, AE2S, Material Testing Services, and Interstate Drilling) are fully described in the attached Task Order. The estimated hourly fee and expenses for the geotechnical and related work are as follows for the anticipated 2023 completion date:

Task Description	Fee
1. Task Order Management and Administration	\$30,820
2. Special and Third-Party Meetings	\$2,189
3. Land Services	\$26,027
4. Geotechnical Services	\$253,550
5. Report Services	\$84,414
Total	\$397,000



Black & Veatch Corporation

Professional Services for Red River Valley Water Supply Project
Under General Agreement dated January 17, 2008

**RRVWSP Task Order 5370 – Red River Valley Transmission Pipeline Contract 7
Geotechnical Investigation and Reporting**

Effective Date – January 15, 2023

Content of this Task Order is as follows:

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I. PROJECT BACKGROUND

1. The Red River Valley Water Supply Project (RRVWSP, the Project) will provide a supplemental water supply to eastern and central North Dakota (ND) in the event of drought conditions in the Red River watershed. The Project as envisioned by the Garrison Diversion Conservancy District (Garrison Diversion, the Owner) will withdraw water from the Missouri River and convey it to a new biota water treatment plant (Biota WTP). A 167-mile multi-county pipeline will convey flows east from the Biota WTP to the Sheyenne River for flow augmentation.

2. Professional services for the Project’s final design will be accomplished through the execution of multiple task orders for design and associated activities as well as for engineering services during construction. A Preliminary Design Report (PDR) prepared by Engineer and authorized by Owner under previously executed Task Orders will be the foundation on which design of Project elements will be based.

3. Planning and engineering work to support future construction of the RRVWSP date back to 2008, with initial geotechnical investigations being undertaken by Engineer in 2008 through a subconsultant agreement with Zeltinger Geotechnical Engineering, PC having since been sold its interests to Materials Testing Services, LLC of Minot, North Dakota (consultant). The 2008 geotechnical work was completed to support conceptual design activities.
4. Engineer's completion of the PDR in 2017 resulted in the refinement of the pipeline alignment. In some sections, significant differences exist between the conceptual design and preliminary design alignments. Because of the realignment in those areas, the 2008 geotechnical investigation does not provide sufficient coverage of in situ conditions for some portions of the pipeline. Supplemental geotechnical investigations are therefore required to augment the information gathered in 2008 to support final design activities that began in 2017 on the Contract 5 segment near Carrington, ND.

II. TASK ORDER OBJECTIVES

1. The purpose of this Task Order is to authorize Engineer to drill supplemental borings along the PDR pipeline alignment for the Red River Valley Transmission Pipeline Contract 7 and to complete laboratory testing of collected soil samples.
 - A. These supplemental borings are necessary to characterize subsurface soil conditions not covered by the 2008 geotechnical investigation. Relevant existing soils data from the 2008 investigation will be used to the maximum extent practical to support design activities.
 - B. Work of this Task Order is focused on the 13-mile pipeline segment on the east end of the 167-mile pipeline. Installation in the 13-mile segment will be accomplished by both cut-and-cover and trenchless methods. Trenchless installation is necessary at certain locations for highway and railroad crossings as well as to avoid conflicts with federally protected wetlands. The location of proposed borings to be completed hereunder are shown on Attachment A.
2. The information gathered from this geotechnical investigation will be presented and summarized by Subconsultant on behalf of Engineer in one Geotechnical Report and one Geotechnical Data Report (GDR): the Geotechnical Report will be for the cut-and-cover pipeline work. The Geotechnical Report and the GDR will be used by Engineer as information for design. The information in the GDR will be used by Engineer in development of a Geotechnical Baseline Report (GBR) for the pipeline to be installed by trenchless methods. Reports will be subsequently made available to general contractors, tunneling subcontractors, vendors, etc. for bidding purposes.
3. Future geotechnical task orders will be necessary to authorize Engineer to complete supplemental geotechnical investigations to support design of other Project elements, including all pipeline segments beginning just south of Sykeston, North Dakota or otherwise known as the west end of pipeline Contract 5D. With authorization of this Task Order, geotechnical

information for the pipeline from Sykeston to the Sheyenne River Outfall southeast of Cooperstown, North Dakota will have been completed.

III. GENERAL REQUIREMENTS

1. Under this Task Order, Engineer will provide services in accordance with the Standard Form of Agreement between Owner and Engineer for Professional Services dated January 17, 2008 (Agreement).
2. General Description of Activities. The Basic Services to be performed by Engineer consist of professional services associated with development of a Geotechnical Report, a GDR, and a GBR.
3. Work outside Basic and Special Services. Engineer agrees to provide the Basic Services and Special Services identified herein. Work not specifically discussed herein as part of Basic Services or Special Services is considered Additional Services. Additional Services will only be performed with proper separate authorization such as an amendment to this Task Order or a new separate Task Order.
4. Explicit Responsibilities. Basic Services and Special Services explicitly set forth the Work Engineer will perform and do not implicitly put any additional responsibilities or duties upon Engineer. Deliverables to be provided by Engineer are explicitly identified in this Task Order.
5. Explicitly Identified Quantities. Engineer in development of this Task Order estimates the level of effort required to provide the services discussed. Where specific information is listed as to the quantity of service(s) to be provided by Engineer, those quantities listed are considered Basic Services or Special Services and are therefore included in this Task Order scope of service and associated fee estimate. Services exceeding the written quantities shown below in Basic Services or Special Services are considered Additional Services.
6. Document Production Standards and Procedures. Engineer will prepare Geotechnical Report, GDR, and GBR using Engineer's standard report formatting, drawing production standards, and AutoCAD drafting standards.

IV. BASIC SERVICES

Basic Services of this Task Order are organized into major tasks as follows:

- Task 1 – Task Order Management and Administration
- Task 2 – Special Project and Third-Party Meetings
- Task 3 – Land Services
- Task 4 – Geotechnical Services
- Task 5 – Report Services

Basic Services' Task 3 will be primarily completed by Engineer's consultant Advanced Engineering and Environmental Services, LLC (AE2S) of Grand Forks, North Dakota; Task 4 will be primarily completed

by Engineer's geotechnical consultant Materials Testing Services, LLC (MTS) of Minot, North Dakota, and Task 5 will be completed jointly by Engineer and MTS.

1. Task 1 – Task Order Management and Administration

This task includes overall management and development of an execution plan specific to the Work. The overall objective of this task is to keep the Task Order on schedule and within budget.

- A. Project Management. Engineer will provide management services necessary for execution of the Task Order, including efforts required for proper resource allocation, schedule development and monitoring, budget review and control, Owner coordination, Subconsultant coordination and other standard and customary activities required for timely completion of the Work.
- B. Administration. Perform general administrative duties associated with the Task Order, including general correspondence, day-to-day contact and coordination, administration, and monthly invoicing in a form that is acceptable to the Owner.
- C. Management of Consultants. Engineer will monitor subcontractor progress, review and approve invoices, oversee adherence to the approved quality assurance/quality control (QA/QC) plan, monitor adherence to document preparation standards, and generally oversee the Consultants' performance.

2. Task 2 – Special Project and Third-Party Meetings

The overall objective of this task is to keep stakeholders apprised of Task Order status and to provide a forum for stakeholder input. Engineer will prepare an agenda and provide meeting notes documenting discussions and action items. The following meetings are anticipated:

- A. Task Order Initiation Meeting. Engineer will conduct a virtual Task Order Initiation Meeting with the Owner and Consultants to review the work plan, preliminary schedule, and overall approach to work for execution of this geotechnical investigation and reporting Task Order.

3. Task 3 – Land Services

- A. Preparation of GIS Parcel Exhibits. Assist Garrison Diversion staff in notifying impacted property owners of the geotechnical field investigation efforts and timing. Engineer will provide individual parcel exhibits developed from an ESRI GIS database showing the location of the proposed or signed RRVWSP easement, parcel lines, and geotechnical exploration location. Additionally, the Engineer will provide an list of all impacted parcels, including owner name and mailing address. Garrison Diversion will assemble and transmit the access notifications to affected property owners.
- B. Locate Borings. Locate and stake borings for the geotechnical field program in the field using the coordinates shown in Table 1 of the draft Consultant Task Order between Engineer and MTS. Provide horizontal and vertical control for each boring. Dates of surveying and drilling operations will be recorded.

- C. Post-Drilling Survey of Borings. Following drilling operations, survey actual location for all borings to define both location and elevation data. Dates of final surveys will be recorded.
4. Task 4 – Geotechnical Services
- A. Provide geotechnical engineering services, including exploratory work and laboratory and field testing, based on preliminary drawings and designs, and including professional interpretations of exploratory and test data.
- B. During the drilling phase of the work, qualified engineer(s) from the design team will visit the 13-mile alignment to observe the work, the characteristics of the soils, observe any rock encountered, observe groundwater conditions, and note other aspects of the work. The purpose of the site visit is to enable the design team to confirm the drilling and sampling work is performed as required by the Task Order, to facilitate review of draft and final geotechnical reports, and to assist with development of the GBR for trenchless work during final design.
- C. Soil borings and associated testing to be completed under this Task Order are generally as follows:
- 43 borings with an approximate 1,619 vertical feet combined
 - 17 piezometers
 - 14 sets of soil corrosivity tests
 - 4 in-situ deep soil resistivity tests
 - 26 in-situ top soil resistivity tests
- D. Exploratory work, field testing, and laboratory testing services will be completed by MTS. Field services include planned geotechnical exploratory work, such as soil borings, standard penetration tests, soundings, laboratory tests of soils and rock samples. The field work will provide information for design, and other field and laboratory tests and analyses that are required to provide design information.
5. Task 5 – Report Services
- A. Geotechnical Reports and Geotechnical Data Report. Engineer’s consultant, MTS, will prepare a geotechnical report for the Project elements noted. A draft report will be furnished for review and comment. Upon disposition of comments to the draft report, a final report will be furnished for use in subsequent development of a GBR by Engineer and as information for design. Information will also be made available to potential bidders. The reports developed will be:
- i. A Geotechnical Report for the open-cut portion of the 13-mile pipeline segment. This will be issued for the construction contractor’s information in preparing their bid. It will, however, not be part of the Contract Documents.

ii. A Geotechnical Data Report (GDR) for trenchless crossings included in the 13-mile pipeline segment. This will be included in the Contract Documents for the construction project.

B. Geotechnical Design Memorandum Update. Engineer will develop a memorandum for internal use by Engineer that contains design requirements and geotechnical recommendations for design of the trenchless crossings. The geotechnical design memorandum will not be made available to bidders.

C. Corrosion Protection Design Guide Update. Using the supplemental corrosivity information collected with this geotechnical investigation, corrosivity information gathered for the conceptual design, previously gathered information such as stray current information gathered under Task Order 5330 – Pipeline Design (STA 5936 to 7527), and experience from the Contract 5A and 5B construction projects, Engineer will update the previously prepared Corrosion Protection Design Guide (CPDG) to update recommendations for corrosion protection for the overall pipeline and associated trenchless crossings.

V. SPECIAL SERVICES

Not used

VI. DELIVERABLES

The following deliverables will be furnished under this Task Order. Documents or deliverables not included in the list below will be provided as Additional Services as authorized by the Owner.

1. Task 1 – Project Management. There are no Task 1 deliverables this Task Order.
2. Task 2 – Special Project and Third-Party Meetings. Meeting agenda (included with MS Outlook meeting invitations) and notes (electronic pdf files)
3. Task 3 – Field Services
 - A. GIS Parcel Exhibits
 - B. Property Owner Contact List
4. Task 4 – Report Services
 - A. Draft Geotechnical Report, GDR, design memorandum, and CPDG (electronic pdf files)
 - B. Final Geotechnical Report, GDR, design memorandum, and CPDG (electronic pdf files)

VII. ADDITIONAL SERVICES

Not used

VIII. SPECIAL RESPONSIBILITIES OF OWNER

1. Draft Deliverable Review Requirements. Owner commits to review periods for Draft deliverables of no more than 30 calendar days after receipt of deliverables from Engineer. A virtual meeting will be held no more than 30 calendar days after receipt of Owner review comments, unless another mutually agreed upon date is selected.
2. Owner is responsible for development and transmittal of landowner notification letters.
3. Owner is primarily responsible for all interface and communication with landowners. Engineer will assist with access coordination as so requested by Owner.

IX. FEE

The total fee for Basic Services provided under this Task Order is Three Hundred Ninety-Seven Thousand Dollars (\$397,000). A worksheet showing the fee estimate and level of effort by task is included in Attachment B.

X. PERFORMANCE SCHEDULE

Basic and Special Services of this Task Order will be completed by December 31, 2023.

XI. DOCUMENTS INCORPORATED BY REFERENCE AND ATTACHMENTS

1. Standard Form of Agreement between Owner and Engineer for Professional Services dated January 17, 2008, is incorporated by reference.
2. Attachment A – Boring Location Drawings
3. Attachment B – Fee Estimate Worksheets

XII. ACCEPTANCE

If this satisfactorily sets forth your understanding of our Agreement, please print and sign this document. You should retain one copy for your files and return an electronic copy via email to Paul Boersma (BoersmaPM@BV.com) with Black & Veatch Corporation.

By: _____
 Duane DeKrey, General Manager
 Garrison Diversion Conservancy District

By: _____
 Paul Boersma, Associate Vice President
 Black & Veatch Corporation

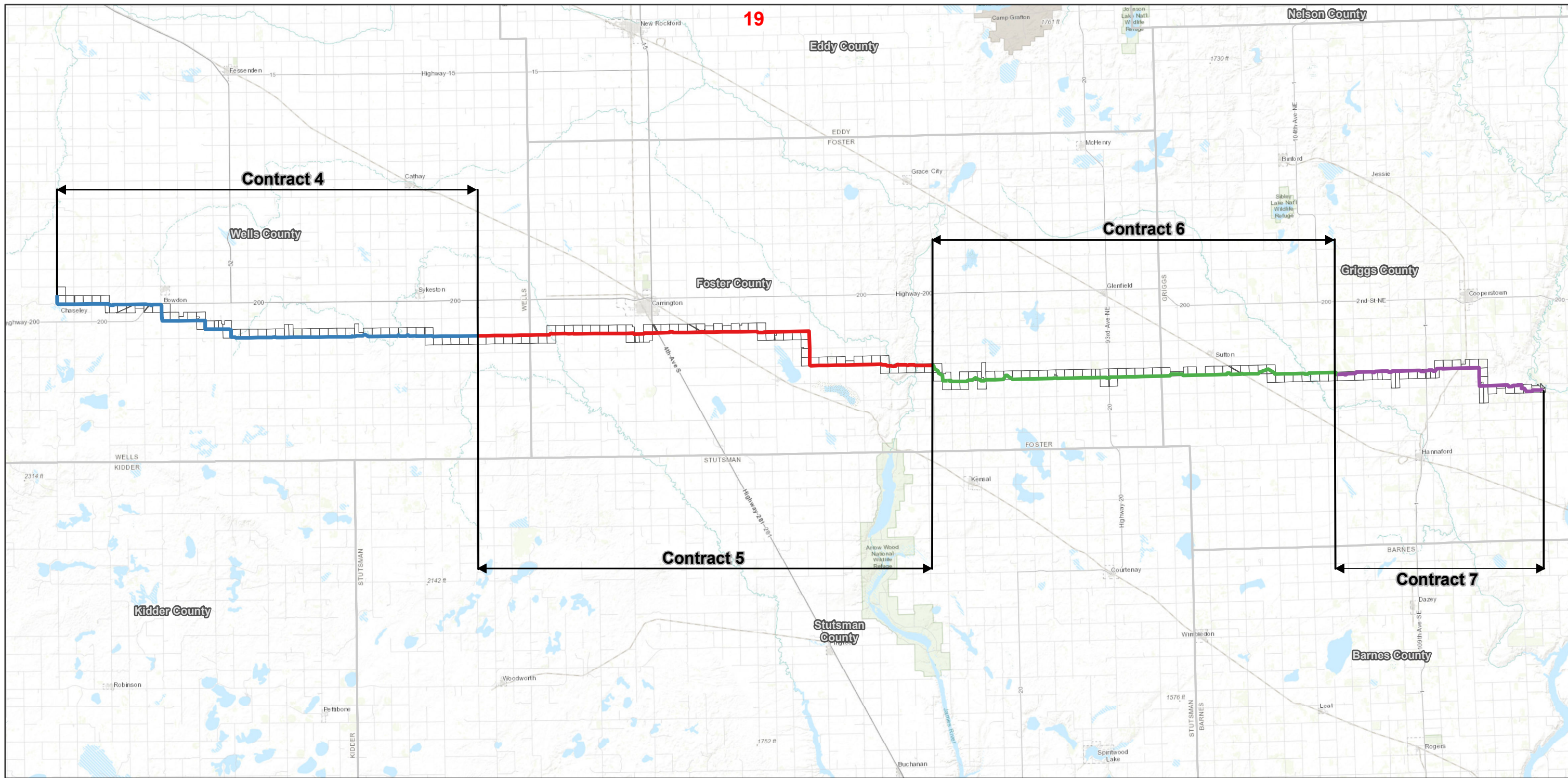
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Dated: _____

ATTACHMENT A

Boring Location Drawings

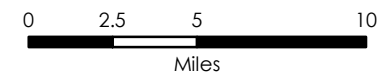
DRAFT



RRVWSP TRANSMISSION PIPELINE EAST

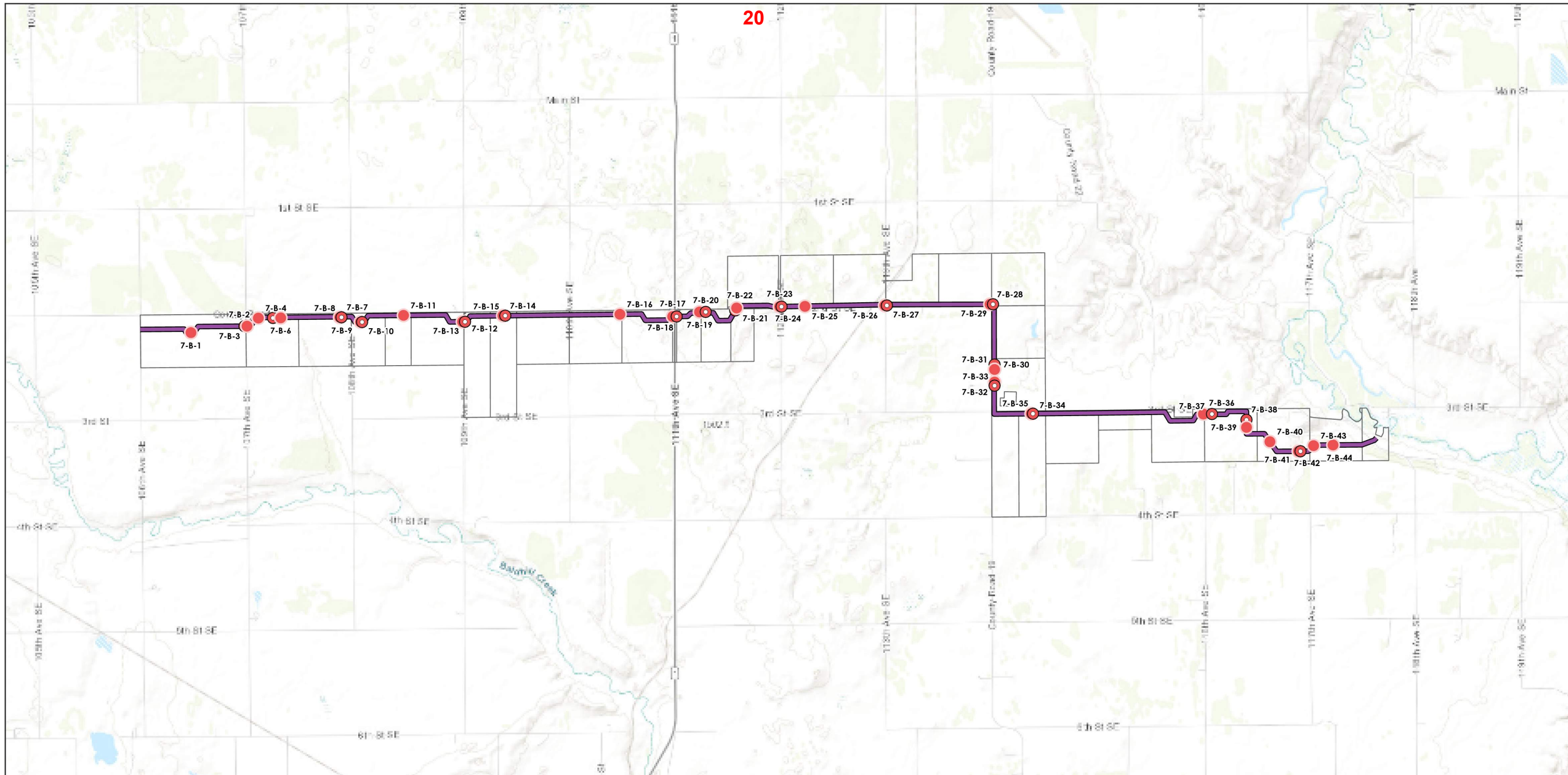
PIPELINE CONTRACTS

- Contract 4
- Contract 5
- Contract 6
- Contract 7







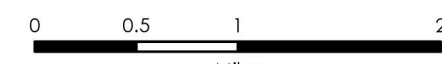
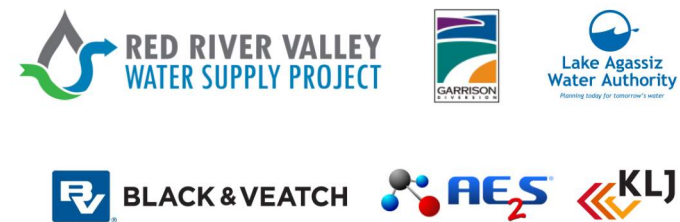
Date: 12/22/2022





RRVWSP 2022 GEOTECHNICAL LOCATIONS - CONTRACT 7

-  Pipeline Contract 7
-  Borings
-  Piezometers
-  In-Situ Topsoil Resistivity Testing Location (Not Boring)



Date: 12/22/2022



Service Layer Credits: NatGeo_World_Map: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO,

Edited by: Iregstor
 Coordinate System: UTM Zone 14N
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ATTACHMENT B

Fee Estimate Worksheets

DRAFT



Client: Garrison Diversion Conservancy District
 Project Name: RRVWSP TO 5310 - RRVTP Contract 7 Geotechnical Investigation and Reporting
 BV PN: XXXXXX
 Black & Veatch Cost Buildup

Task	Position	PMS	EM	TE	DES	SE1	SE2	EM2	BIM1	PJC2	PA1	PA2	ADM1	Labor Detail	Labor Detail	Expense Detail	Expense Detail	Expense Detail	Sub	Expense Detail	Sub	Expense Detail	Total	TOTAL	TOTAL	TOTAL	TOTAL
1.	Task Order Management and Administration	64	0	0	0	0	0	0	0	16	32	16	16	144	\$27,472	\$1,263	\$69	\$0	\$1,920	\$96	\$0	\$0	\$3,348	144	\$27,472	\$3,348	\$30,820
A.	Project Management	32												32	\$9,120	\$281	\$69		\$0	\$0	\$0	\$350	32	\$9,120	\$350	\$9,470	
B.	Administration	8								16	32	16	16	88	\$11,512	\$772		\$1,920	\$96	\$0	\$0	\$2,788	88	\$11,512	\$2,788	\$14,300	
C.	Management of Consultants	24												24	\$6,840	\$210		\$0	\$0	\$0	\$0	\$210	24	\$6,840	\$210	\$7,050	
2.	Special Project and Third-Party Meetings	1	2	0	2	4	0	0	0	0	0	0	2	11	\$2,093	\$96	\$0	\$0	\$0	\$0	\$0	\$0	\$96	11	\$2,093	\$96	\$2,189
A.	Task Order Initiation Meeting	1	2		2	4							2	11	\$2,093	\$96		\$0	\$0	\$0	\$0	\$96	11	\$2,093	\$96	\$2,189	
3.	Land Services	2	6	0	2	10	0	0	8	0	0	0	0	28	\$5,684	\$246	\$0	\$0	\$19,140	\$957	\$0	\$0	\$20,343	28	\$5,684	\$20,343	\$26,027
A.	Preparation of GIS Parcel Exhibits	2	4						4					10	\$2,418	\$88		\$3,472	\$174	\$0	\$0	\$3,734	10	\$2,418	\$3,734	\$6,152	
B.	Locate Borings		1		1	8								10	\$1,626	\$88		\$10,684	\$534	\$0	\$0	\$11,306	10	\$1,626	\$11,306	\$12,932	
C.	Post-Drilling Survey of Borings		1		1	2			4					8	\$1,640	\$70		\$4,984	\$249	\$0	\$0	\$5,303	8	\$1,640	\$5,303	\$6,943	
4.	Geotechnical Services	2	8	0	24	160	0	0	0	0	0	0	0	194	\$31,130	\$1,701	\$0	\$8,100	\$0	\$0	\$202,494	\$10,125	\$222,420	194	\$31,130	\$222,420	\$253,550
A.	Field Services and Laboratory Analyses	2	8		24	160								194	\$31,130	\$1,701	\$8,100	\$0	\$0	\$202,494	\$10,125	\$222,420	194	\$31,130	\$222,420	\$253,550	
5.	Report Services	4	18	20	48	160	8	32	8	0	0	0	0	298	\$54,078	\$2,614	\$0	\$0	\$0	\$0	\$26,400	\$1,322	\$30,336	298	\$54,078	\$30,336	\$84,414
A.	Draft Reports													0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	0	\$0	\$0	\$0
i.	Pipeline Geotechnical Report	2	4	8	16	56								86	\$15,702	\$754		\$0	\$0	\$9,350	\$468	\$10,572	86	\$15,702	\$10,572	\$26,274	
ii.	Trenchless Geotechnical Data Report (GDR)	2	4	8	16	56								86	\$15,702	\$754		\$0	\$0	\$6,050	\$303	\$7,107	86	\$15,702	\$7,107	\$22,809	
B.	Final Reports													0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	0	\$0	\$0	\$0
i.	Pipeline Geotechnical Report		1	2	4	8								15	\$2,937	\$132		\$0	\$0	\$7,150	\$358	\$7,640	15	\$2,937	\$7,640	\$10,577	
ii.	Trenchless Geotechnical Data Report (GDR)		1	2	4	8								15	\$2,937	\$132		\$0	\$0	\$3,850	\$193	\$4,175	15	\$2,937	\$4,175	\$7,112	
C.	Geotechnical Memorandum Update		4		8	32			4					48	\$8,368	\$421		\$0	\$0	\$0	\$0	\$421	48	\$8,368	\$421	\$8,789	
D.	Corrosion Protection Design Guide Update		4				8	32	4					48	\$8,432	\$421		\$0	\$0	\$0	\$0	\$421	48	\$8,432	\$421	\$8,853	
	Totals For Basic and Special Services	73	34	20	76	334	8	32	16	16	32	16	18	675	\$120,457	\$5,920	\$69	\$8,100	\$21,060	\$1,053	\$228,894	\$11,447	\$276,543	675	\$120,457	\$276,543	\$397,000



Client: Garrison Diversion Conservancy District
 Project Name: RRVWSP TO 5310 - RRVTP Contract 7 Geotechnical Investigation and Reporting
 BV PN: XXXXXX
 AE2S Cost Buildup

Task	Position	ENG VIII	PM III	TECH III	GIS IV	ADM III	Labor Detail	Labor Detail	Expense Detail	Expense Detail	TOTAL	TOTAL	TOTAL	TOTAL	
															AE2S Level of Effort (hrs)
1.	Task Order Management and Administration	0	8	0	0	0	8	\$1,920	\$0	\$0	\$0	8	\$1,920	\$0	\$1,920
A.	Project Management						0	\$0			\$0	0	\$0	\$0	\$0
B.	Administration		8				8	\$1,920			\$0	8	\$1,920	\$0	\$1,920
C.	Management of Consultants						0	\$0			\$0	0	\$0	\$0	\$0
2.	Special Project and Third-Party Meetings	0	0	0	0	0	0	\$0	\$0	\$0	\$0	0	\$0	\$0	\$0
A.	Task Order Initiation Meeting						0	\$0			\$0	0	\$0	\$0	\$0
3.	Land Services	4	16	84	8	4	116	\$16,340	\$1,400	\$1,400	\$2,800	116	\$16,340	\$2,800	\$19,140
A.	Preparation of GIS Parcel Exhibits	4	4		8		16	\$3,472			\$0	16	\$3,472	\$0	\$3,472
B.	Locate Borings		8	60		2	70	\$8,984	\$800	\$900	\$1,700	70	\$8,984	\$1,700	\$10,684
C.	Post-Drilling Survey of Borings		4	24		2	30	\$3,884	\$600	\$500	\$1,100	30	\$3,884	\$1,100	\$4,984
4.	Geotechnical Services	0	0	0	0	0	0	\$0	\$0	\$0	\$0	0	\$0	\$0	\$0
A.	Field Services and Laboratory Analyses						0	\$0			\$0	0	\$0	\$0	\$0
5.	Report Services	0	0	0	0	0	0	\$0	\$0	\$0	\$0	0	\$0	\$0	\$0
A.	Draft Reports						0	\$0			\$0	0	\$0	\$0	\$0
i.	Pipeline Geotechnical Report						0	\$0			\$0	0	\$0	\$0	\$0
ii.	Trenchless Geotechnical Data Report (GDR)						0	\$0			\$0	0	\$0	\$0	\$0
B.	Final Reports						0	\$0			\$0	0	\$0	\$0	\$0
i.	Pipeline Geotechnical Report						0	\$0			\$0	0	\$0	\$0	\$0
ii.	Trenchless Geotechnical Data Report (GDR)						0	\$0			\$0	0	\$0	\$0	\$0
C.	Geotechnical Memorandum Update						0	\$0			\$0	0	\$0	\$0	\$0
D.	Corrosion Protection Design Guide Update						0	\$0			\$0	0	\$0	\$0	\$0
Totals For Basic and Special Services		4	24	84	8	4	124	\$18,260	\$1,400	\$1,400	\$2,800	124	\$18,260	\$2,800	\$21,060

RRVWSP 2023 Work Plan

1. Complete construction for Transmission Pipeline Contract 5B, Missouri River Intake Contract 2, and Construction Phased Services with each contract.
2. Complete final design on Transmission Pipeline Contracts 4 and 7.
3. Complete preliminary design for the 32-mile ENDAWS pipeline.
4. Complete conceptual and preliminary design for the McClusky Canal Intake and Biota WTP.
5. Bid and secure contracts for Transmission Pipeline Contracts 5C, 5D, 6A, and 6B, and begin construction.
6. Continue securing ROW and acquisition of properties from the break tank to discharge. Start land acquisition on ENDAWS pipeline segment.
7. Complete Phase 2 of the RRVWSP Operational Planning.
8. Complete Pipeline Extension Conceptual Design.
9. Execute Project Participation Agreement.
10. Implement approved Program Management Implementation System software (E-Builder) to support financial and budget tracking, mitigate project risks and monitor schedule performance.
11. Present financial models to stakeholders and policymakers.
12. Continue with user outreach meetings preparing for final signups.
13. Continue communications with stakeholders, legislators, and key decision makers.