THE CITY OF MADISON

BOARD OF COMMISSIONERS
AGENDA
OCTOBER 4, 2021
5:30PM – COMMISSION ROOM – 116 W CENTER ST

Please join the Zoom meeting from your computer, tablet or smartphone.
https://us06web.zoom.us/j/83360492596

You can also dial in using your phone.
+1 312 626 6799

Meeting ID: 833 6049 2596

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

ADOPT AGENDA

APPEARANCES/ACKNOWLEDGEMENTS

CONSENT CALENDAR
1) Minutes - September 27, 2021
2) Claims for Approval - October 6, 2021
3) Personnel
4) Authorize Mayor to Sign Airport Rescue Grant Program Grant Application

UNFINISHED BUSINESS

NEW BUSINESS
1) Discussion and Action Regarding Installation of Well for Irrigation System at Baughman/Belatti Park
2) Authorize Mayor to Sign Terms and Conditions for Permit to Occupy Right-of-Way
   Van Eps Place - Dakota State University
3) Ratify Mayor's Signature on State Water Plan Application

PUBLIC COMMENT

ANNOUNCEMENTS
1) Change in Meeting - October 12th - Native American Day
2) Lake County Electronic Drop-Off - October 30th

ADJOURN

Supplementary agenda information may be accessed at www.cityofmadisonsd.com
AGENDAS – CITY COMMISSION

If special accommodations are necessary to attend any Board of Commissioners meeting, please contact the Finance Office at (605) 256-7500 at least 24 hours before meeting time. All attempts shall be made to accommodate a request.

CITY OF MADISON
BOARD OF COMMISSIONERS PROCEEDINGS
MADISON, SD 57042

September 27, 2021
Regular

The Board of Commissioners of the City of Madison met in regular session at 5:40pm on the 27th day of September with the following members present on roll call: Mayor Marshall Dennert and Commissioners Jeremiah Corbin, Kelly Dybdahl, Adam Shaw, and Jerae Wire.

The Pledge of Allegiance was recited.

Mayor Dennert requested adding Slide Painting to Item #1 under new business (Discuss use of Community Center Maintenance & Repair Reserve for Life Floor Installation, Blasting & Painting Pool, Gutter Replacement). Motion by Commissioner Corbin to adopt the September 27th agenda as amended. Motion seconded by Commissioner Shaw. Motion carried unanimously.

Motion by Commissioner Corbin, second by Commissioner Wire, to acknowledge the August Board Meeting Minutes. Motion carried unanimously.

Motion by Commissioner Shaw, second by Commissioner Dybdahl, to approve the following items on the consent calendar: Minutes - September 20, 2021, Claims for Approval - September 29, 2021, Claims for Ratification - September 17, 2021, Acknowledge Highway Safety Project Grant - Police Department. Motion carried unanimously.

Claims for Approval - September 29, 2021:
AT&T Mobility Monthly Service 1,325.48; Avenu Insights & Analytics Sept Application Host 3,138.37; AWE Learning Afterschool Workstations 12,364.00; Belisaro/Bailey Soccer Refund 75.00; Border States Electric Supply Bulk Cable Ties 115.09; Borns Group Inc Utility Billing 1,918.74; Carquest of Madison Floor Dry 25.98; Century Business Products Inc Service Call 130.00; Civic Plus LLC Website Design 8,881.20; Classic Convenience Inc Diesel 91.11; Concrete Materials Hot Mix 771.65; Core & Main GP LLC Hydrant Kit 845.64; Dennert/Marshall 1st Dist. Open House-Watertown 100.80; DGR Engineering L/R Plan/CVR Upgrades 6,319.70; Eyecare Center of Madison Safety Glasses-Michelke 91.00; F&M Coop Oil Co Tire Repair #29/DEF 36.43; Genzlinger/Derek Daily Admission Family Refund 18.00; Great America Financial Svcs Copier Agreement 365.78; Greater Madison Area Chamber Mad Money-Vaccine Lottery 25,000.00; Hunter Publishing Inc Minutes/Ordinances/Resolutions 680.25; J&J Earth Works Inc Water System Improvements 303,495.30; Krug Products Inc Ball Valve 33.09; Lake County Treasurer Seal Coating/Fuel 77,203.15; Lawrence/Bradley A Rural Water Meeting-Aberdeen 60.00; Lewis Drugs Inc Phone Cord 12.97; Madison Ace Hardware Oil/Rope/Pulley/Hardware 53.88; Madison Grocery Store Inc Sunchips 32.90; Mamas Maid Service Cleaning Service 1,293.75; Marco Technologies Copier Lease 275.47; McCook County Highway Dept Seal Coating 4,530.81; Michaels Fence & Supply Gate Upgrade/Repair 11,672.00; Midway Service-Vollan Oil Fuel 6,343.49; Northwestern Energy Utilities 40.94; O Reilly Automotive Inc Filters 114.33; Office Peeps Inc Paper Towels/Tissue/Stampers 327.77; Pitney Bowes Global Financial Postage Lease 237.09; Porta Pros Inc Toilet Rental-Aquatic Center 132.00; Productivity Plus Account Gutter Broom #32 276.00; Running Supply Inc Shovels/Spades/Drill&Drive Set 268.19; Sanitation Products Inc 95 Gallon Carts 780.00; SD Municipal League Annual Conf Reg-Berreth/Wilt 200.00; Stan Houston Equipment Co Chainsaws/Power Sweep 1,400.88; Streichers Inc Uniform Pants/Handcuff Pouches 310.96; Stuart Irby Tool Co Tri-Penta Wrenches 208.00; Sturdevants Madison Inc Tank Heater/LED Lights/Filters 700.00; Timmer Supply Co Brass Insert/Adapter/Couplers 21.89; US Dept of Energy FF Trust Billing FY22 500.00; UtiliSmart Corporation 6 Mo Pilot Fee 11,281.00; Valiant Living Inc Contracted Expenses 5,096.00; Vast Broadband Monthly Invoice 3,028.98; Wesco Distribution Inc Cree Street Lights 15,420.00; Wheelco Brake & Supply Inc Filters #32/36B 188.70.

Claims for Ratification - September 17, 2021:
PR#19 Deductions: City of Madison - Flex One $1,657.29; Health Pool of South Dakota $37,219.15; Office of Child Support Enforcement $900.00; SDRS $19,576.33; SDSRP $38,445.94.

Assistant Director of the Community Center Laurie Bunker presented various quotes for updates to the pool area at the Community Center. Life Floor, a foam rubber product made by Falcon Plastics will be installed on the pool deck to provide better traction with a total cost of materials of $98,354. Laurie has offered the area to be a show floor for

the product asking for a significant discount, which they agreed to, dropping materials cost to $28,765. Installation must be done by a certified installer for a cost of $69,627.73. Sandblasting and painting of the pool will be done at the same time for a cost of $65,723, and replacement of gutter grates in the zero depth for a cost of $5,910. Motion by Commissioner Dybdahl, second by Commissioner Shaw, to approve the use of the Maintenance and Repair Reserve up to $190,000 to make the needed repairs. Motion carried unanimously.

City Administrator Berreth informed the community that the MAC is being filled to test out components.

City Administrator Berreth stated drawing has started for the COIVD-19 lottery for $1000 Mad Money gift cards.

City Administrator Berreth thanked Dana Hess for his work at the Daily Leader the last month.

Finance Officer Wilt stated no significant findings in the 2020 audit.

Motion by Commissioner Dybdahl, second by Commissioner Wire, to enter into executive session at 6:00pm pursuant to SDCL 1-25-2(1). Motion carried unanimously.

Motion by Commissioner Shaw, second by Commissioner Corbin, to come out of executive session at 6:50pm. Motion carried.

Motion by Commissioner Shaw, second by Commissioner Corbin, to accept the resignation of Nicholas Hansen as Community Center Director. Motion carried unanimously.

Motion by Commissioner Shaw, second by Commissioner Wire, to adjourn. Motion carried unanimously.

The Board of Commissioners adjourned at 6:52pm.

/s/Sonya Wilt
Finance Officer

CITY OF MADISON

PERSONNEL

OCTOBER 2021

NAME	EFFECTIVE DATE	PRESENT STATUS	RECOMMENDED STATUS	PRESENT RATE/SALARY	RECOMMENDED RATE/SALARY	POSITION	FUND	DEPARTMENT
Larson, Garret	9/30/2021	NA	PR<20	NA	$10.30	Group Instructor	Community Center	Fitness
Tolley, Lillian	9/21/2021	NA	PR<20	NA	$11.00	Lifeguard	Community Center	Aquatics
Sewell, Kaitlyn	9/21/2021	NA	PR<20	NA	$11.00	Lifeguard	Community Center	Aquatics

OMB Number: 4040-0004
Expiration Date: 12/31/2022

Application for Federal Assistance SF-424

*1. Type of Submission:	*2. Type of Application	* If Revision, select appropriate letter(s):
☐ Preapplication	☒ New	
☒ Application	☐ Continuation	*Other (Specify)
☐ Changed/Corrected Application	☐ Revision	

*3. Date Received:	4. Applicant Identifier:
NA	MDS (Madison Municipal) Madison, SD

*5b. Federal Entity Identifier:	*5b. Federal Award Identifier:
46-0029	

State Use Only:

6. Date Received by State:	7. State Application Identifier:

8. APPLICANT INFORMATION:

*a. Legal Name: City of Madison

*b. Employer/Taxpayer Identification Number (EIN/TIN):	*c. Organizational DUNS:
46-6000364	16-873-9977

d. Address:

*Street 1:
Street 2:
*City: MADISON
County/Parish:
*State: SD
Province:
*Country: USA: United States
*Zip / Postal Code

e. Organizational Unit:

Department Name:	Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix: The Honorable *First Name: Marshall
Middle Name:
*Last Name: Dennert
Suffix:

Title: Mayor

Organizational Affiliation:

*Telephone Number: 605-256-7500 Fax Number:

*Email: marshall.dennert@cityofmadisonsd.com

OMB Number: 4040-0004
Expiration Date: 12/31/2022

Application for Federal Assistance SF-424

***9. Type of Applicant 1: Select Applicant Type:**

X. Airport Sponsor

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

*Other (Specify)

***10. Name of Federal Agency:**

Federal Aviation Administration

11. Catalog of Federal Domestic Assistance Number:

20.106

CFDA Title:

Airport Improvement Program

***12. Funding Opportunity Number:**

NA

*Title:

NA

13. Competition Identification Number:

NA

Title:

NA

14. Areas Affected by Project (Cities, Counties, States, etc.):

***15. Descriptive Title of Applicant's Project:**

$32,000 for costs related to operations, personnel, cleaning, sanitization, janitorial services, combating the spread of pathogens at the airport, and debt service payments.

Attach supporting documents as specified in agency instructions.

OMB Number: 4040-0004
Expiration Date: 12/31/2022

Application for Federal Assistance SF-424

16. Congressional Districts Of:

*a. Applicant: *b. Program/Project:

Attach an additional list of Program/Project Congressional Districts if needed.

17. Proposed Project:

*a. Start Date: NA *b. End Date: NA

18. Estimated Funding ($):

*a. Federal	$32,000
*b. Applicant	$0
*c. State	$0
*d. Local	$0
*e. Other	$0
*f. Program Income	$0
*g. TOTAL	$32,000

***19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

☐ a. This application was made available to the State under the Executive Order 12372 Process for review on _____.

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☒ c. Program is not covered by E. O. 12372

***20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation in attachment.)**

☐ Yes ☒ No

If "Yes", provide explanation and attach

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U. S. Code, Title 218, Section 1001)

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: The Honorable *First Name: Marshall

Middle Name:

*Last Name: Dennert

Suffix:

*Title: Mayor

*Telephone Number: 605-256-7500 | Fax Number:

* Email: marshall.dennert@cityofmadisonsd.com

*Signature of Authorized Representative: | *Date Signed:

Prefix: Mr.	*First Name: Jack		
Middle Name:			
*Last Name: Dokken			
Suffix:			
*Title: Program Manager			
*Telephone Number: 605-773-7045		Fax Number: 605-773-2804	
* Email: jack.dokken@state.sd.us			
*Signature of Authorized Representative:		*Date Signed:	

Mike McGillivray
480-4135

Estimate

In Water Since 1946

9-29-21

Wells — Pumps
Dewatering Work
Test Drilling

LACEY WELL DRILLING, INC.
47582 - 240th St.
Dell Rapids, South Dakota 57022
Telephone (605) 428-5979

Down-Hole Camera
Water Specialists
Irrigation Supplies

Baughman Sport Complex 116 W. Center St.

35' well & pump

1) Test hole & Mobilization 35'	450.00
2) Mobilization well Rig & pickup 2x	500.00
3) 35' well Drilling 70.00	2450.00
4) 12" PVC slotted pipe & Casing x 36'	1700.00
5) Gravel Pack	500.00
6) Test Pump 2hr Out-1hr-Mobilization	1700.00
7) Grout Seal	500.00
8) Water Sample	150.00
	7950.00
2%	159.00
	8109.00

Pump

7CLC Pump	1700.00
5HP Motor	1500.00
Control Box	550.00
Well Lids Fittings	500.00
Drop pipe-Wire Threaded-splices-Tape	1300.00
Installing & Mobilization	1700.00
	7250.00
	145.00
	7395.00

With prices changing All the time estimate 18,000.00 - 20,000.00

Any Questions please call: 605-428-5979

Joan Reddekopp

TERMS AND CONDITIONS FOR PERMIT TO OCCUPY RIGHT-OF-WAY

1. STREET: Southwest comer of the intersection of Northwest 3rd St. and North Van Eps Ave. APPROXIMATELY 136 feet East and West on Northwest 3rd St., and APPROXIMATELY 75 feet North and South, on North Van Eps Ave.

2. DESCRIPTION OF OCCUPANCY: To occupy the area commonly referred to as the "parking or boulevard" lying between the now existing curb lines on both Northwest 3rd Street and North Van Eps Ave. and the sidewalk at the Southwest comer of the intersection of Northwest 3rd St. and North Van Eps Ave. as shown on the attached exhibit.

3. PURPOSE OF OCCUPANCY: To provide off street parking to the residents of the dormitory housing Dakota State University students. The right of way would be concrete with curb and gutter to appropriate specifications and, it, together with the alley running North and South from Northwest 3rd Street, would be maintained by Dakota State University, to include but not limited to snow removal.

4. DURATION OF OCCUPANCY: Permanent.

5. MATERIALS: To furnish all materials, labor, incidentals and to pay all costs involved with this occupancy, including restoration of any damage to the roadway and right-of-way to equal or better conditions than existed prior to the occupancy covered by this permit.

6. SAFETY DEVICES AND SIGNS: To provide protection to traffic during construction by the use of proper signs, barricades, or lights as prescribed in the Manual of Uniform Traffic Control Devices.

7. RE-IMBURSEMENT: To the extent permitted by South Dakota law, reimburse and save harmless the City of Madison, its Officers and Employees from any and all suits, actions or claims of any kind or nature brought because of any injuries or damages received or sustained by any person or property on account of the use or occupancy of right-of-way designated in this application.

8. SNOW REMOVAL: To endeavor to remove snow from the occupied right of way area as necessary and do so as soon as reasonably possible. In the event that DSU pushes and clears snow but cannot completely remove all snow from the occupied right of way area, DSU shall push and clear the snow to the South and the West away from the intersection. Snow shall not be deposited in the street.

9. FENCING: To install a 6 feet tall privacy fence on the south side of the property complying with City Zoning Ordinance.

10. NUMBER AND SIZE OF PARKING SPACES: To install Thirteen (13) public parking spaces meeting the minimum parking space dimensions of 10-foot stall width and 18-foot stall length for the sixty-degree parking spaces adjacent to Northwest 3rd St. and North Van Eps Ave. and Five (5) off street parking spaces meeting the minimum 9-foot width by 20-foot length for the ninety-degree parking adjacent to the alley.

11. SIDEWALK: The Permit holder, at its sole and exclusive cost, shall be responsible to remove any and all sidewalk along the are described in Paragraph 1 hereinabove and replace with minimum 4'-8" wide sidewalk completely within Permit Holder's private property, connecting to existing sidewalks within the right-of-way, and granting an easement to the City of Madison and Public to use the sidewalk. Permit Holder shall grant the easement within 12 months of issuance of the permit to occupy City's right of way.

12. VISIBILITY AT INTERSECTION: To provide adequate visibility for pedestrians crossing at the intersections and motorists traveling on Northwest 3rd Street and North Van Eps Ave., the parking spaces shall be constructed abutting the sidewalk that the Permit Holder installs. This will assure that the parking spaces are beyond the curb and gutter line allowing for full clearance of vehicles from the roadway.

CITY OF MADISON	DAKOTA STATE UNIVERSITY
By: _____	By: _____
Print Name: _____	Print Name: _____
Title: _____	Title: _____
Date: _____	Date: _____

Traci Namken

From: Jameson Berreth
Sent: Friday, October 1, 2021 8:16 AM
To: Traci Namken
Subject: FW: October 4th City Commission Agenda

Traci,

Please include the email below in the agenda packet for the DSU parking agreement.

Jameson

From: Ryan Hegg <ryan.hegg@cityofmadisonsd.com>
Sent: Friday, October 1, 2021 6:38 AM
To: Jameson Berreth <jameson.berreth@cityofmadisonsd.com>
Subject: FW: October 4th City Commission Agenda

Jameson,
I received this email in response to the letter that I sent. Is this something that we distribute with the agenda to the City Commission? Should it be read aloud during the meeting?
Thanks,
Ryan

From: Lindsey Hanson <mrshanson13@gmail.com>
Sent: Thursday, September 30, 2021 10:42 AM
To: Ryan Hegg <ryan.hegg@cityofmadisonsd.com>
Subject: October 4th City Commission Agenda

Good morning,
I received a letter from the city concerning the agenda for the October 4th City Commission meeting. I will not be able to attend the meeting in person, but would like my comments and thoughts to be voiced on the matter of DSU occupying the right of way on the corner of NE 3rd St and Van Eps. I currently live directly to the south of the Van Eps dorms at 317 N Van Eps Ave with my husband and 3 children. We are currently in the process of building a new home and are now planning to put our home up for sale in the following weeks. We have reached out to DSU letting them know that our house would be available for purchase to them if they would be interested. I have attached my email and their response below for you to see. It is still my strong belief that this would be a much safer option for all parties involved if DSU were to purchase our property and gain parking that way, as opposed to adding parking in the street, directly where there are school and bus crossing zones painted. This puts not only the young children at risk with cars coming and going in the streets but the college students as well. I was unable to attend the previous commission meeting, but would like for this option to be available for others to see and decide if DSU truly has the best interest of those students and the city in mind. Thank you for the time, have a wonderful week.
Lindsey Hanson

Lindsey Hanson <[redacted]>
to Stacy, Donna, Wendi, Corey

Jul 22, 2021, 9:56 AM

Good morning,
We just got a letter from the city concerning DSU wanting to occupy the right of way and add parking in front of the dorms. I also read about it in the paper and have to say that I am very disappointed that no one from DSU bothered to reach out to us or the other neighbors about this. I also have not heard back from anyone about the fencing issue and was hoping that you would have come up with a more appropriate solution.
With all of that being said, we are currently in the process of building a house set to be complete this fall. We were planning to keep our current home at 317 N Van Eps as a rental property, but did have a realtor come through and appraise it for $169,900 about a month ago. We would like to extend the opportunity to DSU to purchase our property for this price to use in what way they see fit, as it already has the zoning to be used for commercial reasons and would be a good solution to your needs without further disruptions to the beautiful neighborhood. Please take this into consideration before taking further action with trying to obtain the right of way.
Thank you,
Lindsey Hanson

Carlson-Kenley, Wendi <Wendi.CarlsonKenley@dsu.edu>
to Amy, me, Corey, Stacy

Jul 23, 2021, 4:33 PM

Hi Lindsey,

Thank you for your email and your patience as we continue working through the needed updates at Van Eps Place.

We will be reaching out to neighbors today regarding our proposed parking plan. We apologize that you did not hear from us first. I have attached a copy of the letter and the supporting documents that have been sent by mail.

Please know that we are working on securing bids for the fencing and will touch base with you soon to work through the details.

At this point we are not interested in pursuing the purchase of your home at 317 N Van Eps Ave. We appreciate you considering us and reaching out with the offer.

Wendi Carlson-Kenley

Director of Residence Life
DAKOTA STATE UNIVERSITY
888-DSU-9988 / dsu.edu
office/605-256-5146

Sent from Mail for Windows

Banner Associates, Inc.
409 22nd Avenue South
Brookings, SD 57006
Tel 605.692.6342
Toll Free 855.323.6342
www.bannerassociates.com

September 29, 2021

Mr. Mike Perkovich
Department of Agriculture and Natural Resources
Joe Foss Building
523 East Capitol Avenue
Pierre, South Dakota 57501-3181

Dear Mr. Perkovich:

The City of Madison is requesting to have further identified projects placed on the State Water Plan. Enclosed is a DW and CW State Water Plan application for the City of Madison Utility Improvements Project (Segment 1 – Segment 6). Also included is an executive summary, figure identifying areas of improvements and corresponding opinion of costs. A preliminary engineering report will follow under separate cover.

Should the Department have any questions regarding this application, please contact Banner Associates or the City of Madison

Sincerely,

Dennis Rebelein, PE
Banner Associates, Inc.

State Water Plan Application

Applicant:	Proposed Funding Package	
City of Madison Address:	Projected State Funding	$12,308,500
116 W Center Street Madison, SD 57042	Local Cash	
	Other:	
Phone Number:	Other:	
605-256-7500	TOTAL	$12,308,500

Project Title: City of Madison Utility Improvements (Segment 1 - Segment 6)

Description: (Include present monthly utility rate.)

The City of Madison is proposing to replace watermain piping that is undersized and in poor condition on approximately 34 city blocks. They are also proposing to install approximately 3,500 LF of 8" and 12" watermain to provide a loop across Highway 34 that will improve system hydraulics and water service. The City of Madison is currently finishing Phase 1 of water system improvements and is under construction in Phase 2 of water system improvements that will in total complete 60 blocks of utility replacements. The proposed improvements in this application are part of the City's comprehensive plan that will further replace cast iron pipe and provide needed capacity for the overall system.

The current monthly water usage rate for 5,000 gallons is $43.70.

The Applicant Certifies That:

I declare and affirm under the penalties of perjury that this application has been examined by me and, to the best of my knowledge and belief, is in all things true and correct.

Marshall Dennert, Mayor
Name & Title of Authorized Signatory (Typed)

Marshall Dennert 9/30/2021
Signature Date

Professional Consultants

Application Prepared By: Banner Associates

Contact Person: Weston Blasius

Mailing Address: 2307 W. 57th Street, Suite 102

City, State, and Zip: Sioux Falls, South Dakota 57108

Telephone Number: 855-323-6342 Fax: 605-692-5714

Email address: westonb@bannerassociates.com

Consulting Engineering Firm: Banner Associates

Contact Person: Dennis Rebelein

Mailing Address: 408 22nd Avenue South

City, State, and Zip: Brookings, South Dakota 57006

Telephone Number: 855-323-6342 Fax: 605-692-5714

Email address: dennisr@bannerassociates.com

Legal Counsel's Firm: Meierhenry Sargent LLP

Contact Person: Todd Meierhenry

Mailing Address: 315 S Phillips Ave

City, State, and Zip: Sioux Falls, SD 57104

Telephone Number: 605-336-3075 Fax:

Email address:

State Water Plan Application Information

Infrastructure projects requesting placement on the State Water Facilities Plan must provide a completed preliminary engineering report with this application and should be ready for construction within two years. Additionally, for drinking water projects complete the Drinking Water Project Eligibility and Priority Point Self-Assessment sections.

Watershed projects requesting placement on the State Water Facilities Plan must provide a completed watershed assessment report with this application and should be ready for implementation within two years.

Projects that are large, costly water projects that are requesting significant state cost share participation may be recommended for placement on the State Water Resources Management System. These projects are necessary for the needs and general welfare of the people of South Dakota.

Drinking Water Project Eligibility and Priority Point Self-Assessment

Eligibility Assessment

	YES	NO
1. Is the project intended mainly for fire protection?	☐	☒
2. Is the project primarily intended to serve future growth? Note: Providing service to existing homes or businesses not currently served is not considered future growth. Note: If the answer to either question is "YES" the project may not be eligible for an SRF loan. Contact the department for more information.	☐	☒

Priority Point Assessment

1. If the water system has experienced either situation described below in the past three years, will this project correct the deficiency? If so, indicate which situation applies.	☐	☒
A. Occurrences of nitrates, fecal coliform, or E. coli bacteria that have exceeded the allowable limits as defined in ARSD 74:04:12.	☐	☒
B. Occurrences of chronic primary drinking water contaminants that have exceeded the allowable limits as defined in ARSD 74:04:12 or the system is in violation of a treatment technique.	☐	☒
2. Please provide the monthly user rate expected as a result of this project (based on 5,000 gallons for municipalities and sanitary districts and 7,000 gallons for other systems).		
3. If the project will consolidate facilities, indicate which of the following best describes the project:		
A. One or more community water systems will consolidate with another community water system and the consolidation is cost effective.	☐	☒
B. A community water system will receive water from another community water system but will continue to operate its water system in some capacity.	☐	☒
4. If the water system has experienced occurrences of secondary drinking water contaminants that have exceeded the guidelines in the past three years, will this project address the suspected cause of these occurrences? If so, indicate all contaminants that exceeded the maximum contaminant level below.	☐	☒
Chloride.....250 mg/L	☐	☒
Color.....15 color units	☐	☒
Fluoride.....2.0 mg/L	☐	☒
Foaming Agents.....0.5 mg/L	☐	☒
Iron.....0.3 mg/L	☐	☒
Manganese.....0.05 mg/L	☐	☒
Odor.....3 threshold odor number	☐	☒
pH.....range: 6.5 to 8.5	☐	☒
Silver.....0.1 mg/L	☐	☒
Sulfate.....250 mg/L	☐	☒
Total Dissolved Solids.....500 mg/L	☐	☒
Zinc.....5 mg/L	☐	☒

Priority Point Assessment Continued

	YES	NO
5. In the past three years has the water system experienced occurrences of total coliform that have exceeded the allowable limits and will this project address the suspected cause of these occurrences?	☐	☒
6. The project is a rehabilitation of contaminated drinking water sources or development of new sources to replace contaminated sources.	☐	☒
7. The project is needed to develop sources due to inadequate supply.	☐	☒
8. If water meters are being installed:		
A. The meters are being installed on services that were previously unmetered.	☐	☒
B. The meters are replacing existing meters.	☐	☒
9. If the project is replacing transmission lines indicate all that apply:		
A. Remove lead piping.	☐	☒
B. Decrease water loss volume by 10% or more.	☐	☒
C. Loop lines to improve water quality.	☒	☐
D. Lines are 50 years old or older.	☒	☐
10. The project will construct storage for a system with capacity less than an average day's demand or is needed to address low pressure problems. Low pressure is defined as less than 20 pounds per square inch.	☐	☒
11. The project will construct, upgrade, or replace a water treatment plant or its components to assure compliance with upcoming or existing regulations.	☐	☒
12. For a project sponsored by a community or sanitary district, provide the population of the community as reported in the 2010 census. For regional systems, please provide the population of the area, based on the 2010 census, to benefit from the project.	6,497	

State Water Plan Application

Applicant:	Proposed Funding Package	
City of Madison Address:	Projected State Funding	$5,692,400
116 W Center Street Madison, SD 57042	Local Cash	
	Other:	
Phone Number:	Other:	
605-256-7500	TOTAL	$5,692,400

Project Title: City of Madison Utility Improvements (Segment 1 - Segment 6)

Description: (Include present monthly utility rate.)

The City of Madison is proposing to replace and rehab clay sanitary sewer collection piping and brick manholes that are in poor condition, undersized and requiring increase maintenance. The scope of work includes replacement of sanitary sewer on approximately 18 city blocks. Cured-in-place pipe is proposed for approximately 4,700 LF of sanitary sewer. The City of Madison is currently finishing Phase 1 of sanitary sewer system improvements and is under construction in Phase 2 of sanitary sewer system improvements that will in total complete 60 blocks of utility replacements. The proposed improvements in this application are part of the City's comprehensive plan that will further replace clay pipe and provide needed capacity for the overall system. In addition to sanitary improvements the City is also proposing to replace and add storm sewer inlets and piping to improve collection and conveyance of storm sewer in areas where other water and sanitary utility improvements are scheduled.

The current monthly sanitary sewer rate for 5,000 gallons is $49.30.

The Applicant Certifies That:

I declare and affirm under the penalties of perjury that this application has been examined by me and, to the best of my knowledge and belief, is in all things true and correct.

Marshall Dennert, Mayor
Name & Title of Authorized Signatory (Typed)

Marshall Dennert 9/20/2021
Signature Date

Professional Consultants

Application Prepared By: Banner Associates

Contact Person: Weston Blasius

Mailing Address: 2307 W. 57th Street, Suite 102

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Telephone Number: 855-323-6342 Fax: 605-692-5714

Email address: westonb@bannerassociates.com

Consulting Engineering Firm: Banner Associates

Contact Person: Dennis Rebelein

Mailing Address: 408 22nd Avenue South

City, State, and Zip: Brookings, South Dakota 57006

Telephone Number: 855-323-6342 Fax: 605-692-5714

Email address: dennisr@bannerassociates.com

Legal Counsel's Firm: Meierhenry Sargent LLP

Contact Person: Todd Meierhenry

Mailing Address: 315 S Philips Ave

City, State, and Zip: Sioux Falls, SD 57104

Telephone Number: 605-336-3075 Fax:

Email address:

State Water Plan Application Information

Infrastructure projects requesting placement on the State Water Facilities Plan must provide a completed preliminary engineering report with this application and should be ready for construction within two years. Additionally, for drinking water projects complete the Drinking Water Project Eligibility and Priority Point Self-Assessment sections.

Watershed projects requesting placement on the State Water Facilities Plan must provide a completed watershed assessment report with this application and should be ready for implementation within two years.

Projects that are large, costly water projects that are requesting significant state cost share participation may be recommended for placement on the State Water Resources Management System. These projects are necessary for the needs and general welfare of the people of South Dakota.

BANNER

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City of Madison 2021 State Water Plan Application Executive Summary

9/28/2021

Need for the Project

The City of Madison has identified areas of the watermain system that are in need of replacement due to poor condition and limited capacity. These areas primarily consist of cast iron pipe that had reached its useful life. The city has also identified sanitary collection piping and structures that are in need of replacement or rehabilitation due to poor condition and limited capacity. These segments generally consist of clay pipe and brick manhole structures.

Alternatives Examined

The watermain replacement alternatives examined include open-cut water main replacement, directional drilling, and boring and jacking. Sanitary sewer and storm sewer rehabilitation options include CIPP and open-cut replacement. Where open-cut watermain is occurring open cut sewer replacement was chosen.

Proposed Projects

As of October 2021, the City of Madison is applying for the following projects that replace existing undersized and tuberculated water main, replace deteriorating and undersized sanitary sewer, lining sanitary sewer to increase the useful life of the sanitary sewer and decrease infiltration and inflow. Storm sewer improvements are scheduled where water and sanitary replacement is identified. Inlet structures and conveyance piping that is in poor condition will be replaced.

Segment 1: Replaces watermain and sanitary sewer along NW 9th Street as well as storm sewer improvements to provide collection and conveyance of stormwater runoff.

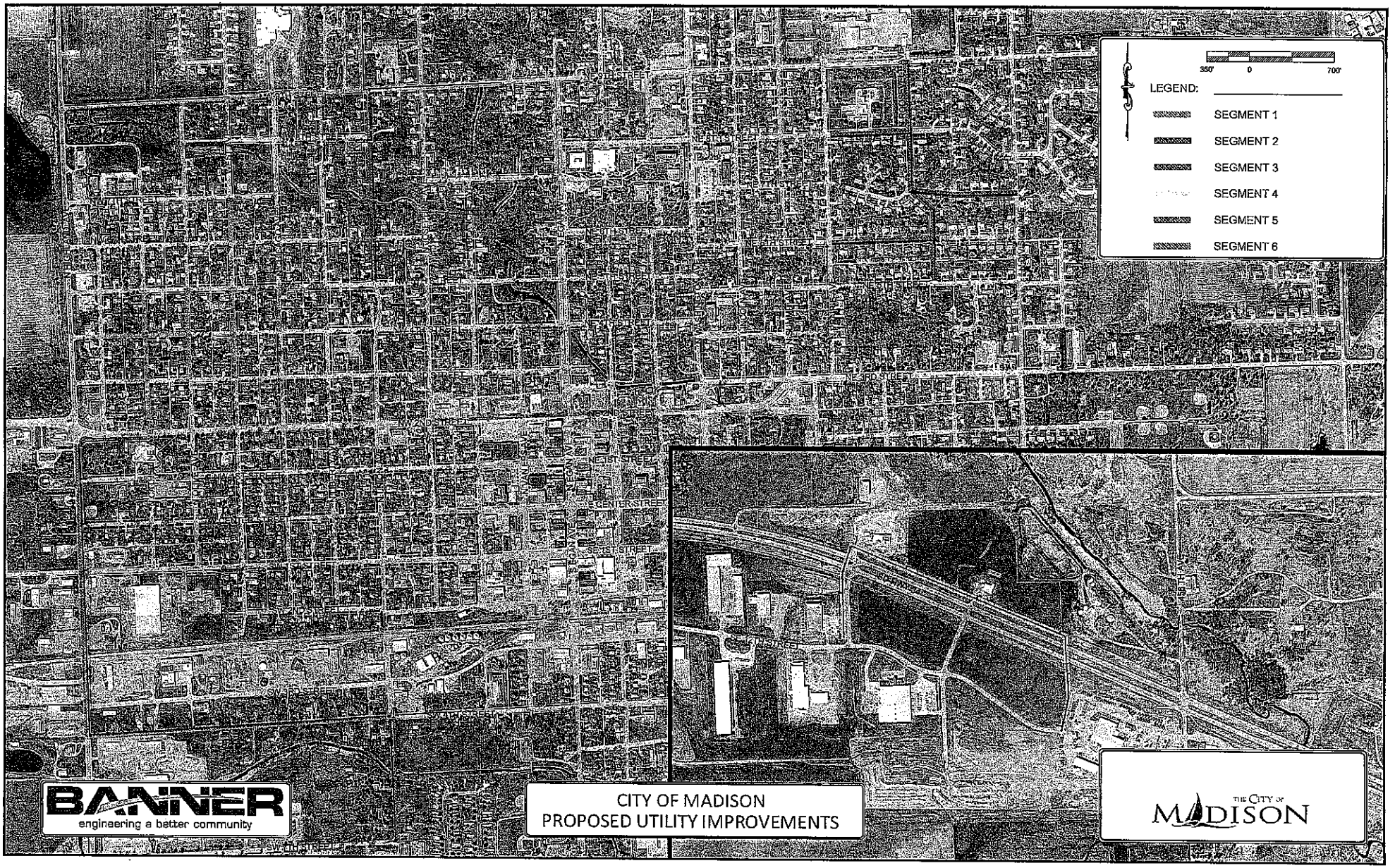
Segment 2: Replaces sanitary sewer main, water main, and storm sewer along Union Avenue from NW 5th Street to NW 9th Street. Increases water main to 12" PVC, replaces curb & gutter and storm sewer inlets. Replaces VCP sanitary sewer pipes.

Segment 3: This segment is replacement of the watermain only along Roosevelt Ave from 5th Street to 9th Street and the watermain that connects to Roosevelt Avenue along NE 8th Street and NE 6th Street. Resurfacing will be over the watermain only and will also include replacing the curb and gutter and storm inlets in the vicinity of the watermain replacement.

Segment 4: Installs an 8" and 12" watermain loop under SD Hwy 34 to increase system capacity and provide reliable service to the area.

Segment 5: Replaces watermain with 12" PVC along Highland Avenue from NW 2nd Street to SW 4th Street. Replaces watermain, sanitary sewer, and storm sewer along SW 4th Street from Highland Avenue to Union Avenue. Replaces watermain along Union Avenue from SW 4th Street to SW 7th Street. This project includes directional boring of watermain under a creek and installation of a casing pipe via boring and jacking for both the sanitary sewer and the watermain under the railroad.

Segment 6: This work is sanitary sewer improvements only and is primarily a Cured In Place Pipe lining of sanitary sewer between NW 5th Street and NW 2nd Street and Highland Avenue and Liberty Avenue. Sanitary sewer is in need of replacement with 12" PVC along West Avenue from NW 6th Street to NW 7th Street.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LEGEND:
SEGMENT 1
SEGMENT 2
SEGMENT 3
SEGMENT 4
SEGMENT 5
SEGMENT 6
CENTER STREET
BANNER
engineering a better community
CITY OF MADISON
PROPOSED UTILITY IMPROVEMENTS
THE CITY OF
MADISON

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OPINION OF PROBABLE PROJECT COST SUMMARY

PROJECT Madison Utility Improvements
LOCATION Madison, South Dakota
DATE 9/30/2021

BAI NO 21064.12

Scope of Work	Opinion of Probable Construction Costs		25% Contingencies		Design, Bid & Construction Services		Geotechnical Services		Administration and Legal Services (1.5%)		Total Opinion of Probable Project Costs		
	Drinking Water	Clean Water	Drinking Water	Clean Water	Drinking Water	Clean Water	Drinking Water	Clean Water	Drinking Water	Clean Water	Drinking Water	Clean Water	Total
Segment 1	$1,540,177.00	$959,898.00	$385,044.25	$239,974.50	$240,552.00	$150,000.00	$5,000.00	$5,000.00	$28,878.32	$17,998.09	$2,199,651.57	$1,372,870.59	$3,572,522.16
Segment 2	$884,000.00	$566,837.00	$221,000.00	$141,709.25	$176,800.00	$113,367.40	$4,500.00	$4,500.00	$16,575.00	$10,628.19	$1,302,900.00	$837,100.00	$2,140,000.00
Segment 3	$2,051,100.00	$0.00	$512,775.00	$0.00	$410,220.00	$0.00	$4,500.00	$0.00	$38,458.13	$0.00	$3,017,100.00	$0.00	$3,017,100.00
Segment 4	$735,000.00	$0.00	$183,750.00	$0.00	$147,000.00	$0.00	$4,500.00	$0.00	$13,781.25	$0.00	$1,084,100.00	$0.00	$1,084,100.00
Segment 5	$3,200,100.00	$1,647,800.00	$800,025.00	$411,950.00	$640,020.00	$329,560.00	$4,500.00	$4,500.00	$60,001.88	$30,896.25	$4,704,700.00	$2,424,800.00	$7,129,500.00
Segment 6	$0.00	$718,300.00	$0.00	$179,575.00	$0.00	$143,660.00	$0.00	$2,500.00	$0.00	$13,468.13	$0.00	$1,057,600.00	$1,057,600.00
											$12,308,500.00	$5,692,400.00	$18,000,900.00

NW 9th Street and N Union Ave
Madison, SD

Engineer's Opinion of Probable Construction Cost

Remove and Replace Asphalt Street 37-ft B-B Width and Replace/Extend Utilities

Item No.	Item Description	Units	Unit Price	Quantity	Total Price
1	Mobilization	LS	$170,000	1	$170,000
2	Salvage Traffic Sign	EA	$25	24	$600
3	Remove and Reset Mailbox	EA	$100	24	$2,400
4	Remove Concrete Curb & Gutter	LF	$6	4,700	$28,200
5	Remove Drop Inlet	EA	$450	8	$3,600
6	Remove Storm Sewer Pipe	LF	$10	500	$5,000
7	Remove Manhole	EA	$1,000	10	$10,000
8	Remove Sanitary Sewer Pipe	LF	$10	1,650	$16,500
9	Remove Fire Hydrant	EA	$1,000	8	$8,000
10	Remove Watermain Pipe	LF	$10	1,850	$18,500
11	Remove Asphalt Concrete Pavement	SY	$5	20,000	$100,000
12	Remove Concrete Pavement	SY	$8	500	$4,000
13	Remove Concrete Sidewalk	SY	$7	250	$1,750
14	Miscellaneous Work - Grading	LS	$10,000	1	$10,000
15	Geotextile Fabric	SY	$3.00	19,500	$58,500
16	12" Base Course	TON	$20	10,000	$200,000
17	4" Asphalt Pavement	TON	$85	3,550	$301,750
18	6" PCC Driveway Pavement	SY	$85	750	$63,750
19	18" RCP Class 3 Furnish	LF	$30	1,100	$33,000
20	18" RCP Install	LF	$30	1,100	$33,000
21	21" RCP Class 3 Furnish	LF	$40	225	$9,000
22	21" RCP Install	LF	$30	225	$6,750
23	24" RCP Class 3 Furnish	LF	$45	1,250	$56,250
24	24" RCP Install	LF	$35	1,250	$43,750
25	27" RCP Class 3 Furnish	LF	$50	275	$13,750
26	27" RCP Install	LF	$40	275	$11,000
27	30" RCP Class 3 Furnish	LF	$55	20	$1,100
28	30" RCP Install	LF	$45	20	$900
29	18" RCP Flared End Furnish	EA	$600	7	$4,200
30	18" RCP Flared End Install	EA	$400	7	$2,800
31	24" RCP Flared End Furnish	EA	$750	3	$2,250
32	24" RCP Flared End Install	EA	$400	3	$1,200
33	48" Storm Sewer Manhole	EA	$3,500	14	$49,000
34	Miscellaneous Work - Storm	LS	$9,500	1	$9,500
35	Storm Sewer Inlet	EA	$5,000	30	$150,000
36	Reset Sign	EA	$100	24	$2,400
37	Pavement Marking Paint 4" White	LF	$1	250	$250
38	Pavement Marking Paint 4" Yellow	LF	$1	900	$900
39	Traffic Control Miscellaneous	LS	$7,500	1	$7,500
40	Concrete Curb & Gutter	LF	$20	9,000	$180,000
41	4" Concrete Sidewalk	SF	$10	12,000	$120,000
42	Type 1 Detectable Warnings	SF	$60	440	$26,400
43	External Manhole Seal	EA	$625	11	$6,875
44	Manhole Frame and Lid	EA	$1,000	11	$11,000
45	Adjust Manhole	EA	$550	11	$6,050
46	48" Sanitary Manhole	EA	$3,500	14	$49,000
47	8" Sanitary Sewer Main	LF	$50	1,650	$82,500
48	10" Sanitary Sewer Main	LF	$75	1,100	$82,500
49	4" Sanitary Sewer Service	LF	$35	1,200	$42,000
50	Miscellaneous Work - Sanitary	LS	$9,500	1	$9,500
51	8" C900 PVC Watermain	LF	$40	4,000	$160,000
52	12" C900 PVC Watermain	LF	$60	1,200	$72,000
53	12" Watermain Boring	LF	$150	300	$45,000
54	8" MJ Gate Valve	EA	$1,500	16	$24,000
55	12" MJ Gate Valve	EA	$1,500	4	$6,000
56	6" Fire Hydrants	EA	$4,000	12	$48,000
57	Miscellaneous Work - Watermain	LS	$9,500	1	$9,500
58	1" Water Service Pipe	LF	$25	1,200	$30,000
59	1" Water Corporation Stop and Tapping Saddle	EA	$650	24	$15,600
60	1" Water Service Curb Stop and Box	EA	$600	24	$14,400
61	Adjust Water Valve Box	EA	$185	20	$3,700
62	Erosion Control	LS	$5,000	1	$5,000
63	Seeding/Fertilizing/Mulching	AC	$2,500	4	$10,000
Total					**$2,500,075**

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OPINION OF PROBABLE CONSTRUCTION COST

PROJECT Madison Utility Improvements - Segment 2 BAI NO 21064.12
LOCATION Madison, SD
DATE September 28, 2021

SPEC. SECTION	DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT PRICE	TOTAL VALUE	DW - WATER IMPROVEMENTS		STREET IMPROVEMENTS		CW - STORM SEWER IMPROVEMENTS		CW - SANITARY SEWER IMPROVEMENTS	
						Amount	%	Amount	%	Amount	%	Amount	%
GENERAL ITEMS					1								
01 7113-2.1	Mobilization	LS	1	$175,000.00	$175,000.00	$105,000.00	60%	$0.00	0%	$0.00	0%	$70,000.00	40%
01 0000 - 5.4	Traffic Control Signs	SqFt	250	$5.00	$1,250.00	$750.00	60%	$0.00	0%	$0.00	0%	$500.00	40%
01 0000 - 5.4	Traffic Control, Miscellaneous	LS	1	$10,000.00	$10,000.00	$6,000.00	60%	$0.00	0%	$0.00	0%	$4,000.00	40%
01 0000 - 5.4	Type 2 Barricade	Each	8	$60.00	$480.00	$288.00	60%	$0.00	0%	$0.00	0%	$192.00	40%
01 0000 - 5.4	Type 3 Barricade, 6' Double Sided	Each	4	$125.00	$500.00	$300.00	60%	$0.00	0%	$0.00	0%	$200.00	40%
01 0000 - 5.4	Type 3 Barricade, 8' Double Sided	Each	14	$125.00	$1,750.00	$1,050.00	60%	$0.00	0%	$0.00	0%	$700.00	40%
01 0000 - 7.1	Blading	Hour	10	$200.00	$2,000.00	$1,200.00	60%	$0.00	0%	$0.00	0%	$800.00	40%
01 0000 - 7.1	Sweeping	Hour	8	$125.00	$1,000.00	$600.00	60%	$0.00	0%	$0.00	0%	$400.00	40%
EROSION CONTROL					1								
31 2400 - 4.8	Placing Contractor Furnished Topsoil	CuYd	600	$35.00	$21,000.00	$12,600.00	60%	$0.00	0%	$0.00	0%	$8,400.00	40%
32 9200 - 4.1	Seeding	Lb	454	$10.00	$4,540.00	$2,724.00	60%	$0.00	0%	$0.00	0%	$1,816.00	40%
32 9200 - 4.3	Fertilizing	Lb	387	$1.00	$387.00	$232.20	60%	$0.00	0%	$0.00	0%	$154.80	40%
32 9200 - 4.4	Weed Control	SqYd	7200	$0.50	$3,600.00	$2,160.00	60%	$0.00	0%	$0.00	0%	$1,440.00	40%
32 9200 - 4.2	Hydro-Mulching	Ton	3	$2,500.00	$7,500.00	$4,500.00	60%	$0.00	0%	$0.00	0%	$3,000.00	40%
33 9200 - 4.2	Temporary Seeding	Lb	45	$8.00	$363.20	$217.92	60%	$0.00	0%	$0.00	0%	$145.28	40%
31 2500 -4.1	Erosion Control Blanket	SqYd	1800	$4.00	$7,200.00	$4,320.00	60%	$0.00	0%	$0.00	0%	$2,880.00	40%
31 2500 - 4.2	Inlet Protection	Each	6	$175.00	$1,050.00	$630.00	60%	$0.00	0%	$0.00	0%	$420.00	40%
31 2500 - 4.3	Temporary Vehicle Tracking Control	Each	2	$1,500.00	$3,000.00	$1,800.00	60%	$0.00	0%	$0.00	0%	$1,200.00	40%
31 2500 - 4.4	Concrete Washout Area	Each	1	$300.00	$300.00	$180.00	60%	$0.00	0%	$0.00	0%	$120.00	40%
31 2500 - 4.5	Manhole Construction Plate Marker	Each	5	$300.00	$1,500.00	$900.00	60%	$0.00	0%	$0.00	0%	$600.00	40%
REMOVALS					1								
31 2300 - 4.2	Clear and Grub Tree	Each	3	$1,000.00	$3,000.00	$1,800.00	60%	$0.00	0%	$0.00	0%	$1,200.00	40%
31 2300 - 4.2	Remove Concrete Curb and Gutter	LF	3240	$4.50	$14,580.00	$8,748.00	60%	$0.00	0%	$0.00	0%	$5,832.00	40%
31 2300 - 4.2	Remove Asphalt Concrete Pavement	SqYd	5760	$6.00	$34,560.00	$20,736.00	60%	$0.00	0%	$0.00	0%	$13,824.00	40%
31 2300 - 4.2	Remove Concrete Pavement	SqYd	1317	$54.00	$71,118.00	$42,670.80	60%	$0.00	0%	$0.00	0%	$28,447.20	40%
31 2300 - 4.2	Remove Concrete Sidewalk	SqYd	40	$54.00	$2,160.00	$1,296.00	60%	$0.00	0%	$0.00	0%	$864.00	40%
31 2300 - 4.2	Salvage Traffic Sign for Reset	Each	11	$100.00	$1,100.00	$660.00	60%	$0.00	0%	$0.00	0%	$440.00	40%
31 2300 - 4.2	Saw Existing Asphalt	LF	160	$3.00	$480.00	$288.00	60%	$0.00	0%	$0.00	0%	$192.00	40%
31 2300 - 4.2	Saw Existing Concrete	LF	864	$8.00	$6,912.00	$4,147.20	60%	$0.00	0%	$0.00	0%	$2,764.80	40%
31 2300 - 4.2	Tree Trimming	Each	3	$650.00	$1,950.00	$1,170.00	60%	$0.00	0%	$0.00	0%	$780.00	40%
31 2300 - 4.2	Root Grinding	Each	2	$500.00	$1,000.00	$600.00	60%	$0.00	0%	$0.00	0%	$400.00	40%
TRENCHING, EXCAVATION, BACKFILLING					1								
31 2300 - 4.5	Trench Stabilization Material	Ton	500	$30.00	$15,000.00	$9,000.00	60%	$0.00	0%	$0.00	0%	$6,000.00	40%
31 2300 - 4.6	Imported Trench Backfill Material	Ton	750	$20.00	$15,000.00	$9,000.00	60%	$0.00	0%	$0.00	0%	$6,000.00	40%
31 2300 - 4.7	Locating Utility	Each	1	$150.00	$150.00	$90.00	60%	$0.00	0%	$0.00	0%	$60.00	40%
31 2300 - 4.8	Verify Utility	Each	25	$175.00	$4,375.00	$2,625.00	60%	$0.00	0%	$0.00	0%	$1,750.00	40%
GRADING					1								
31 2400 - 4.3	Unclassified Excavation	CuYd	2300	$10.00	$23,000.00	$13,800.00	60%	$0.00	0%	$0.00	0%	$9,200.00	40%
31 2400 - 4.4	Unclassified Excavation, Digouts	CuYd	230	$18.00	$4,140.00	$2,484.00	60%	$0.00	0%	$0.00	0%	$1,656.00	40%
31 2400 - 4.5	Scarify and Recompact Subgrade	SqYd	12780	$1.00	$12,780.00	$7,668.00	60%	$0.00	0%	$0.00	0%	$5,112.00	40%
31 2400 - 4.6	Compaction - Moisture Density Tests	Each	36	$125.00	$4,500.00	$2,700.00	60%	$0.00	0%	$0.00	0%	$1,800.00	40%
31 2400 - 4.7	Water For Embankment	Mgal	23	$15.00	$345.00	$207.00	60%	$0.00	0%	$0.00	0%	$138.00	40%
31 2400 - 4.9	Full Depth Reclamation	SqYd	5760	$1.50	$8,640.00	$5,184.00	60%	$0.00	0%	$0.00	0%	$3,456.00	40%
31 2400 - 4.10	Salvage and Stockpile Asphalt Mix and Granular Base Material	SqYd	5760	$3.25	$18,720.00	$11,232.00	60%	$0.00	0%	$0.00	0%	$7,488.00	40%
32 1123 - 4.2	Geotextile Fabric For Subgrade Stabilization	SqYd	5760	$4.00	$23,040.00	$13,824.00	60%	$0.00	0%	$0.00	0%	$9,216.00	40%

WATERMAIN					1								
33 1000 - 4.2	Remove and Salvage Fire Hydrant	Each	2	$500.00	$1,000.00	$1,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.2	Remove Valve Box	Each	4	$200.00	$800.00	$800.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	6" Watermain	LF	80	$45.00	$3,600.00	$3,600.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	8" Watermain	LF	60	$50.00	$3,000.00	$3,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	12" Watermain	LF	1520	$75.00	$114,000.00	$114,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
34 1000 - 4.3	12" Restrained Joint Watermain	LF	100	$125.00	$12,500.00	$12,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	6" MJ Gate Valve & Box W/ Joint Restraints	Each	3	$2,100.00	$6,300.00	$6,300.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	8" MJ Gate Valve & Box W/ Joint Restraints	Each	1	$2,500.00	$2,500.00	$2,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	12" MJ Gate Valve & Box W/ Joint Restraints	Each	5	$3,500.00	$17,500.00	$17,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.5	Adjustment of Valve Box	Each	9	$200.00	$1,800.00	$1,800.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" MJ Bend (45 Degree) w/ Joint Restraints	Each	4	$450.00	$1,800.00	$1,800.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" x 8" MJ Tee w/ Joint Restraints	Each	1	$1,500.00	$1,500.00	$1,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" x 12" MJ Cross w/ Joint Restraints	Each	1	$1,750.00	$1,750.00	$1,750.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" MJ Sleeve w/ Joint Restraints	Each	4	$650.00	$2,600.00	$2,600.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.7	Fire Hydrant w/ Joint Restraints	Each	3	$2,750.00	$8,250.00	$8,250.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.8	Fire Hydrant Extensions	Each	3	$1,000.00	$3,000.00	$3,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.9	Temporary Water Service - Connection	Each	5	$350.00	$1,750.00	$1,750.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.10	Temporary Water Service	LS	1	$10,000.00	$10,000.00	$10,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.11	Temporary Fire Hydrant	Each	1	$2,250.00	$2,250.00	$2,250.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.12	Cut and Tie To Existing Watermain	Each	3	$1,750.00	$5,250.00	$5,250.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.13	8" x 1" Water Service Saddle Tap & Corp	Each	1	$650.00	$650.00	$650.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.13	12" x 1" Water Service Saddle Tap & Corp	Each	20	$900.00	$18,000.00	$18,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.14	1" Water Service Curb Stop & Box	Each	21	$500.00	$10,500.00	$10,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.15	1" Water Service Piping	LF	840	$25.00	$21,000.00	$21,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.18	20" PVC Encasement	LF	60	$100.00	$6,000.00	$6,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
STORM SEWER					1								
33 4100 - 4.2	Remove Drop Inlet	Each	6	$450.00	$2,700.00	$0.00	0%	$0.00	0%	$2,700.00	100%	$0.00	0%
33 4100 - 4.2	Remove Storm Sewer Manhole	Each	1	$550.00	$550.00	$0.00	0%	$0.00	0%	$550.00	100%	$0.00	0%
33 4100 - 4.2	Remove Storm Sewer Pipe	LF	235	$12.00	$2,820.00	$0.00	0%	$0.00	0%	$2,820.00	100%	$0.00	0%
33 4100 - 4.3	18" RCP Class 3, Furnish	LF	235	$20.00	$4,700.00	$0.00	0%	$0.00	0%	$4,700.00	100%	$0.00	0%
33 4100 - 4.3	18" RCP, Install	LF	235	$50.00	$11,750.00	$0.00	0%	$0.00	0%	$11,750.00	100%	$0.00	0%
33 4100 - 4.5	Connect to Existing Storm Sewer Pipe	Each	2	$1,500.00	$3,000.00	$0.00	0%	$0.00	0%	$3,000.00	100%	$0.00	0%
33 4100 - 4.6	Storm Sewer Junction Box, Type 1 (4'X4')	Each	1	$5,500.00	$5,500.00	$0.00	0%	$0.00	0%	$5,500.00	100%	$0.00	0%
33 4100 - 4.7	Sioux Falls Drop Inlet (3'X6')	Each	2	$5,000.00	$10,000.00	$0.00	0%	$0.00	0%	$10,000.00	100%	$0.00	0%
33 4100 - 4.7	Type B Inlet with Frame and Grate	Each	4	$3,250.00	$13,000.00	$0.00	0%	$0.00	0%	$13,000.00	100%	$0.00	0%
33 4100 - 4.8	Adjust Junction Box	Each	1	$500.00	$500.00	$0.00	0%	$0.00	0%	$500.00	100%	$0.00	0%
SANITARY SEWER					1								
33 3000 - 4.2	Remove Sanitary Sewer Manhole	Each	3	$500.00	$1,500.00	$0.00	0%	$0.00	0%	$0.00	0%	$1,500.00	100%
33 3000 - 4.3	4" Dia Gravity Sewer Pipe	LF	480	$32.00	$15,360.00	$0.00	0%	$0.00	0%	$0.00	0%	$15,360.00	100%
33 3000 - 4.3	8" Dia Gravity Sewer Pipe	LF	850	$55.00	$46,750.00	$0.00	0%	$0.00	0%	$0.00	0%	$46,750.00	100%
33 3000 - 4.6	8"x4" Sanitary Sewer Service Connection	Each	11	$450.00	$4,950.00	$0.00	0%	$0.00	0%	$0.00	0%	$4,950.00	100%
33 3000 - 4.7	48" Dia Sanitary Sewer Manhole	Each	3	$4,000.00	$12,000.00	$0.00	0%	$0.00	0%	$0.00	0%	$12,000.00	100%
33 3000 - 4.7	Manhole Drop Section	Each	1	$1,500.00	$1,500.00	$0.00	0%	$0.00	0%	$0.00	0%	$1,500.00	100%
33 3000 - 4.8	Additional Vertical Feet Manhole	VF	6	$400.00	$2,400.00	$0.00	0%	$0.00	0%	$0.00	0%	$2,400.00	100%
33 3000 - 4.9	Connect to Existing Sanitary Sewer Pipe	Each	5	$1,250.00	$6,250.00	$0.00	0%	$0.00	0%	$0.00	0%	$6,250.00	100%
33 3000 - 4.11	Adjustment of Manhole and Cover	Each	3	$600.00	$1,800.00	$0.00	0%	$0.00	0%	$0.00	0%	$1,800.00	100%
33 3000 - 4.12	Tracer Wire - Sanitary	LF	1330	$1.50	$1,995.00	$0.00	0%	$0.00	0%	$0.00	0%	$1,995.00	100%
SURFACING					1								
32 1123 - 4.3	Water For Granular Material	MGal	61	$16.00	$976.00	$585.60	60%	$0.00	0%	$0.00	0%	$390.40	40%
32 1123 -4.1	Base Course	Ton	5050	$23.00	$116,150.00	$69,690.00	60%	$0.00	0%	$0.00	0%	$46,460.00	40%
33 1123 -4.4	Base Course, Salvaged, Asphalt Mix, 4" Depth	SY	900	$6.00	$5,400.00	$3,240.00	60%	$0.00	0%	$0.00	0%	$2,160.00	40%
31 2400 -4.7	Subbase Foundation Aggregate	Ton	505	$35.00	$17,675.00	$10,605.00	60%	$0.00	0%	$0.00	0%	$7,070.00	40%
32 1216 -4.1	Asphalt Concrete	SY	5760	$28.00	$161,280.00	$96,768.00	60%	$0.00	0%	$0.00	0%	$64,512.00	40%
32 1216 -4.2	Asphalt Concrete Sampling and Testing	Each	3	$600.00	$1,800.00	$1,080.00	60%	$0.00	0%	$0.00	0%	$720.00	40%
32 1613 -4.5	Reinforced PCC Approach Pavement, 6" Thick	SqYd	1064	$95.00	$101,080.00	$60,648.00	60%	$0.00	0%	$0.00	0%	$40,432.00	40%
32 1613 -4.3	Concrete Fillet Section, 6" Thick	SqYd	57	$120.00	$6,840.00	$4,104.00	60%	$0.00	0%	$0.00	0%	$2,736.00	40%
32 1613 -4.1	Concrete Curb & Gutter	Ft	3240	$22.00	$71,280.00	$42,768.00	60%	$0.00	0%	$0.00	0%	$28,512.00	40%
32 1613 -4.2	Concrete Valley Gutter, 6" Thick	SqYd	86	$120.00	$10,320.00	$6,192.00	60%	$0.00	0%	$0.00	0%	$4,128.00	40%
32 1613 - 4.6	4" Concrete Sidewalk	SqFt	360	$10.00	$3,600.00	$2,160.00	60%	$0.00	0%	$0.00	0%	$1,440.00	40%
32 1613 - 4.6	6" Concrete Sidewalk	SqFt	2280	$12.00	$27,360.00	$16,416.00	60%	$0.00	0%	$0.00	0%	$10,944.00	40%
32 1613 - 4.8	Concrete Sampling and Testing	Each	10	$550.00	$5,500.00	$3,300.00	60%	$0.00	0%	$0.00	0%	$2,200.00	40%
32 1613 - 4.9	Type B Detectable Warnings	SqFt	90	$70.00	$6,300.00	$3,780.00	60%	$0.00	0%	$0.00	0%	$2,520.00	40%
					TOTAL =	$1,450,900	$884,019	61%	$0	0%	$54,520	4%	$512,317	35%

BANNER

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OPINION OF PROBABLE CONSTRUCTION COST

PROJECT Madison Utility Improvements - Segment 3
LOCATION Madison, SD
DATE September 26, 2021

BAI NO 21064.12

SPEC. SECTION	DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT PRICE	TOTAL VALUE	SRF WATER IMPROVEMENTS		STREET IMPROVEMENTS		STORM SEWER IMPROVEMENTS		SANITARY SEWER IMPROVEMENTS	
						Amount	%	Amount	%	Amount	%	Amount	%
GENERAL ITEMS					1								
01 7113-2.1	Mobilization	LS	1	$650,000.00	$300,000.00	$300,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
01 0000 - 5.4	Traffic Control, Miscellaneous	LS	1	$20,000.00	$20,000.00	$20,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
01 0000 - 7.1	Blading	Hour	20	$200.00	$4,000.00	$4,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
01 0000 - 7.1	Sweeping	Hour	20	$125.00	$2,500.00	$2,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
EROSION CONTROL					1								
31 2400 - 4.8	Placing Contractor Furnished Topsoil	CuYd	727	$35.00	$25,445.00	$25,445.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 9200 - 4.1	Seeding	Lb	550	$10.00	$5,500.00	$5,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 9200 - 4.3	Fertilizing	Lb	469	$1.00	$469.00	$469.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 9200 - 4.4	Weed Control	SqYd	8722	$0.50	$4,361.00	$4,361.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 9200 - 4.2	Hydro-Mulching	Ton	4	$2,500.00	$9,000.00	$9,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 9200 - 4.2	Temporary Seeding	Lb	55	$8.00	$440.00	$440.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2500 -4.1	Erosion Control Blanket	SqYd	2181	$4.00	$8,724.00	$8,724.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2500 - 4.2	Inlet Protection	Each	3	$175.00	$525.00	$525.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2500 - 4.3	Temporary Vehicle Tracking Control	Each	2	$1,500.00	$3,000.00	$3,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2500 - 4.4	Concrete Washout Area	Each	2	$300.00	$600.00	$600.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
REMOVALS					1								
31 2300 - 4.2	Clear and Grub Tree	Each	40	$1,000.00	$40,000.00	$40,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.2	Remove Concrete Curb and Gutter	LF	3969	$4.50	$17,860.50	$17,860.50	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.2	Remove Asphalt Concrete Pavement	SqYd	8000	$6.00	$48,000.00	$48,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.2	Remove Concrete Sidewalk	SqYd	776	$6.00	$4,656.00	$4,656.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.2	Salvage Traffic Sign for Reset	Each	4	$100.00	$400.00	$400.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.2	Saw Existing Asphalt	LF	5756.3	$3.00	$17,268.90	$17,268.90	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.2	Saw Existing Concrete	LF	230	$8.00	$1,840.00	$1,840.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.2	Tree Trimming	Each	20	$650.00	$13,000.00	$13,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.2	Root Grinding	Each	40	$500.00	$20,000.00	$20,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
TRENCHING, EXCAVATION, BACKFILLING					1								
31 2300 - 4.5	Trench Stabilization Material	Ton	500	$30.00	$15,000.00	$15,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.6	Imported Trench Backfill Material	Ton	750	$20.00	$15,000.00	$15,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.7	Locating Utility	Each	1	$150.00	$150.00	$150.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.8	Verify Utility	Each	84	$175.00	$14,700.00	$14,700.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
GRADING					1								
31 2400 - 4.3	Unclassified Excavation	CuYd	3270	$10.00	$32,700.00	$32,700.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2400 - 4.4	Unclassified Excavation, Digouts	CuYd	330	$18.00	$5,940.00	$5,940.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2400 - 4.5	Scarify and Recompact Subgrade	SqYd	9550	$1.00	$9,550.00	$9,550.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2400 - 4.6	Compaction - Moisture Density Tests	Each	51	$125.00	$6,375.00	$6,375.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2400 - 4.7	Water For Embankment	Mgal	32.8	$15.00	$492.00	$492.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1123 - 4.2	Geotextile Fabric For Subgrade Stabilization	SqYd	7850	$3.00	$23,550.00	$23,550.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
WATERMAIN					1								
33 1000 - 4.2	Remove and Salvage Fire Hydrant	Each	6	$500.00	$3,000.00	$3,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.2	Remove Valve Box	Each	16	$200.00	$3,200.00	$3,200.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.2	Remove Water Main	LF	4740	$10.00	$47,400.00	$47,400.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	4" Watermain	LF	30	$25.00	$750.00	$750.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	6" Watermain	LF	70	$38.00	$2,660.00	$2,660.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	8" Watermain	LF	2410	$43.00	$103,630.00	$103,630.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	12" Watermain	LF	2030	$54.00	$109,620.00	$109,620.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	6" MJ Gate Valve & Box W/ Joint Restraints	Each	6	$2,100.00	$12,600.00	$12,600.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	8" MJ Gate Valve & Box W/ Joint Restraints	Each	9	$2,500.00	$22,500.00	$22,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	12" MJ Gate Valve & Box W/ Joint Restraints	Each	5	$3,500.00	$17,500.00	$17,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.5	Adjustment of Valve Box	Each	16	$200.00	$3,200.00	$3,200.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" MJ Bend (11.25 Degree) w/ Joint Restraints	Each	1	$450.00	$450.00	$450.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	8" MJ Bend (45 Degree) w/ Joint Restraints	Each	2	$750.00	$1,500.00	$1,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%

33 1000 - 4.6	4" MJ Bend (90 Degree) w/ Joint Restraints	Each	1	$450.00	$450.00	$450.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" x 6" MJ Tee w/ Joint Restraints	Each	1	$900.00	$900.00	$900.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" x 12" MJ Tee w/ Joint Restraints	Each	2	$950.00	$1,900.00	$1,900.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	8" x 8" MJ Cross w/ Joint Restraints	Each	1	$1,000.00	$1,000.00	$1,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	6" x 4" MJ Reducer w/ Joint Restraints	Each	1	$500.00	$500.00	$500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" x 8" MJ Reducer w/ Joint Restraints	Each	2	$600.00	$1,200.00	$1,200.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	4" MJ Sleeve w/ Joint Restraints	Each	1	$350.00	$350.00	$350.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	8" MJ Sleeve w/ Joint Restraints	Each	3	$450.00	$1,350.00	$1,350.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" MJ Sleeve w/ Joint Restraints	Each	4	$700.00	$2,800.00	$2,800.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.7	"Owner Furnished" Fire Hydrant w/ Joint Restraints	Each	6	$1,750.00	$10,500.00	$10,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.8	"Owner Furnished" Fire Hydrant Extensions	Each	6	$750.00	$4,500.00	$4,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.9	Temporary Water Service - Connection	Each	7	$350.00	$2,450.00	$2,450.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.12	Cut and Tie To Existing Watermain	Each	11	$750.00	$8,250.00	$8,250.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.13	8" x 1" Water Service Saddle Tap & Corp	Each	29	$650.00	$18,850.00	$18,850.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.13	8" x 2" Water Service Saddle Tap & Corp	Each	2	$850.00	$1,700.00	$1,700.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.13	12" x 1" Water Service Saddle Tap & Corp	Each	27	$900.00	$24,300.00	$24,300.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.14	1" Water Service Curb Stop & Box	Each	56	$500.00	$28,000.00	$28,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.14	2" Water Service Curb Stop & Box	Each	2	$900.00	$1,800.00	$1,800.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.15	1" Water Service Piping	LF	1824	$25.00	$45,600.00	$45,600.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.15	2" Water Service Piping	LF	132	$30.00	$3,960.00	$3,960.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.17	Tracer Wire - Water	LF	4540	$1.50	$6,810.00	$6,810.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
STORM SEWER					1	-							
33 4100 - 4.3	24" RCP Class 3, Furnish	LF	20	$25.00	$500.00	$500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 4100 - 4.3	24" RCP, Install	LF	20	$40.00	$800.00	$800.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 4100 - 4.7	Type B Inlet with Frame and Grate	Each	1	$3,250.00	$3,250.00	$3,250.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
SURFACING					1								
32 1123 - 4.3	Water For Granular Material	MGal	93	$16.00	$1,488.00	$1,488.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1123 -4.1	Base Course	Ton	7780	$19.00	$147,820.00	$147,820.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1123 -4.4	Base Course, Salvaged, Asphalt Mix, 4" Depth	SY	7660	$4.00	$30,640.00	$30,640.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2400 -4.7	Subbase Foundation Aggregate	Ton	778	$30.00	$23,340.00	$23,340.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1216 -4.1	Asphalt Concrete	SY	8000	$26.00	$208,000.00	$208,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1216 -4.2	Asphalt Concrete Sampling and Testing	Each	5	$600.00	$3,000.00	$3,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1613 -4.4	PCC Approach Pavement, 6" Thick	SqYd	1703	$75.00	$127,725.00	$127,725.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1613 -4.5	Reinforced PCC Approach Pavement, 6" Thick	SqYd	1703	$95.00	$161,785.00	$161,785.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1613 -4.3	Concrete Fillet Section, 6" Thick	SqYd	134	$120.00	$16,080.00	$16,080.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1613 -4.1	Concrete Curb & Gutter	Ft	3969	$21.00	$83,349.00	$83,349.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1613 -4.2	Concrete Valley Gutter; 6" Thick	SqYd	81	$120.00	$9,720.00	$9,720.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1613 - 4.6	4" Concrete Sidewalk	SqFt	7230	$8.50	$61,455.00	$61,455.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1613 - 4.8	Concrete Sampling and Testing	Each	10	$550.00	$5,500.00	$5,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1613 - 4.9	Type B Detectable Warnings	SqFt	6	$65.00	$390.00	$390.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
				TOTAL =	$2,051,100	$2,051,068	100%	$0	0%	$0	0%	$0	0%

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OPINION OF PROBABLE CONSTRUCTION COST

PROJECT Madison Utility Improvements - Segment 4 BAI NO 21064.12
LOCATION Madison, SD
DATE September 26, 2021

SPEC. SECTION	DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT PRICE	TOTAL VALUE	DW - WATER IMPROVEMENTS		STREET IMPROVEMENTS		CW - STORM SEWER IMPROVEMENTS		CW - SANITARY SEWER	
PHASE 1A - BASE BID						Amount	%	Amount	%	Amount	%	Amount	%
GENERAL ITEMS					1								
01 7113-2.1	Mobilization	LS	1	$125,000.00	$125,000.00	$125,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
01 0000 - 5.4	Traffic Control Signs	SqFt	192	$5.00	$960.00	$960.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
01 0000 - 5.4	Traffic Control, Miscellaneous	LS	1	$15,000.00	$15,000.00	$15,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
EROSION CONTROL					1								
31 2400 - 4.8	Placing Contractor Furnished Topsoil	CuYd	1112	$35.00	$38,920.00	$38,920.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 9200 - 4.1	Seeding	Lb	841	$10.00	$8,410.00	$8,410.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 9200 - 4.3	Fertilizing	Lb	717	$1.00	$717.00	$717.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 9200 - 4.4	Weed Control	SqYd	13333	$0.50	$6,666.50	$6,666.50	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 9200 - 4.2	Hydro-Mulching	Ton	5	$2,500.00	$13,500.00	$13,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 9200 - 4.2	Temporary Seeding	Lb	84	$8.00	$672.80	$672.80	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2500 -4.1	Erosion Control Blanket	SqYd	3334	$4.00	$13,336.00	$13,336.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2500 - 4.3	Temporary Vehicle Tracking Control	Each	1	$1,500.00	$1,500.00	$1,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
REMOVALS					1								
31 2300 - 4.2	Remove Asphalt Concrete Pavement	SqYd	711	$6.00	$4,266.00	$4,266.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
TRENCHING, EXCAVATION, BACKFILLING					1								
31 2300 - 4.5	Trench Stabilization Material	Ton	500	$30.00	$15,000.00	$15,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.6	Imported Trench Backfill Material	Ton	200	$20.00	$4,000.00	$4,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.7	Locating Utility	Each	2	$150.00	$300.00	$300.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2300 - 4.8	Verify Utility	Each	25	$175.00	$4,375.00	$4,375.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
WATERMAIN					1								
34 1000 - 4.3	6" Watermain	LF	140	$20.00	$2,800.00	$2,800.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	8" Watermain	LF	2425	$48.00	$116,400.00	$116,400.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	8" Restrained Joint Watermain (in Casing)	LF	275	$50.00	$13,750.00	$13,750.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	12" Watermain	LF	540	$80.00	$43,200.00	$43,200.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	12" Restrained Join Watermain (in Casing)	LF	250	$85.00	$21,250.00	$21,250.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	6" MJ Gate Valve & Box W/ Joint Restraints	Each	6	$2,100.00	$12,600.00	$12,600.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	8" MJ Gate Valve & Box W/ Joint Restraints	Each	5	$2,500.00	$12,500.00	$12,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	12" MJ Gate Valve & Box W/ Joint Restraints	Each	3	$3,500.00	$10,500.00	$10,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.5	Adjustment of Valve Box	Each	14	$200.00	$2,800.00	$2,800.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	8" MJ Bend (22.5 Degree) w/ Joint Restraints	Each	1	$550.00	$750.00	$750.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" MJ Bend (22.5 Degree) w/ Joint Restraints	Each	1	$1,250.00	$1,250.00	$1,250.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	8" MJ Bend (45 Degree) w/ Joint Restraints	Each	1	$750.00	$750.00	$750.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	8" MJ Cap w/ Joint Restraints	Each	1	$500.00	$500.00	$500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	8" x 8" MJ Tee w/ Joint Restraints	Each	1	$850.00	$850.00	$850.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" x 8" MJ Cross w/ Joint Restraints	Each	1	$1,750.00	$1,750.00	$1,750.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	8" MJ Sleeve w/ Joint Restraints	Each	4	$650.00	$2,600.00	$2,600.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" MJ Sleeve w/ Joint Restraints	Each	2	$1,200.00	$2,400.00	$2,400.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.7	Fire Hydrant w/ Joint Restraints	Each	6	$3,000.00	$18,000.00	$18,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.8	Fire Hydrant Extension	Each	6	$1,000.00	$6,000.00	$6,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.10	Temporary Water Service	LS	1	$15,000.00	$15,000.00	$15,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.12	Cut and Tie To Existing Watermain	Each	4	$1,500.00	$6,000.00	$6,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.13	8" x 2" Water Service Saddle Tap & Corp	Each	4	$850.00	$3,400.00	$3,400.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.14	2" Water Service Curb Stop & Box	Each	4	$900.00	$3,600.00	$3,600.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.15	2" Water Service Piping	LF	80	$30.00	$2,400.00	$2,400.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.17	Tracer Wire - Water	LF	3710	$1.50	$5,565.00	$5,565.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.18	24" Steel Casing (Jack and Bore)	LF	230	$600.00	$138,000.00	$138,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.18	16" PVC Encasement	LF	20	$100.00	$2,000.00	$2,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.18	20" PVC Encasement	LF	20	$120.00	$2,400.00	$2,400.00	100%	$0.00	0%	$0.00	0%	$0.00	0%

SURFACING					1								
32 1123 - 4.3	Water For Granular Material	MGal	6	$16.00	$96.00	$96.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1123 -4.1	Base Course	Ton	530	$21.00	$11,130.00	$11,130.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
31 2400 -4.7	Subbase Foundation Aggregate	Ton	53	$30.00	$1,590.00	$1,590.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1216 -4.1	Asphalt Concrete	SY	712	$28.00	$19,936.00	$19,936.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
32 1216 -4.2	Asphalt Concrete Sampling and Testing	Each	1	$600.00	$600.00	$600.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
				TOTAL =	$735,000	$734,990	100%	$0	0%	$0	0%	$0	0%

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OPINION OF PROBABLE CONSTRUCTION COST

PROJECT Madison Utility Improvements - Segment 5
LOCATION Madison, SD
DATE September 26, 2021

BAI NO 21064.12

SPEC. SECTION	DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT PRICE	TOTAL VALUE	DW - WATER IMPROVEMENTS		STREET IMPROVEMENTS		CW - STORM SEWER IMPROVEMENTS		CW - SANITARY SEWER IMPROVEMENTS	
						Amount	%	Amount	%	Amount	%	Amount	%
GENERAL ITEMS					1								
01 7113-2.1	Mobilization	LS	1	$500,000.00	$500,000.00	$330,000.00	66%	$0.00	0%	$0.00	0%	$170,000.00	34%
01 0000 - 5.4	Traffic Control, Miscellaneous	LS	1	$85,000.00	$85,000.00	$56,100.00	66%	$0.00	0%	$0.00	0%	$28,900.00	34%
01 0000 - 7.1	Blading	Hour	20	$200.00	$4,000.00	$2,640.00	66%	$0.00	0%	$0.00	0%	$1,360.00	34%
01 0000 - 7.1	Sweeping	Hour	40	$125.00	$5,000.00	$3,300.00	66%	$0.00	0%	$0.00	0%	$1,700.00	34%
EROSION CONTROL					1								
31 2400 - 4.8	Placing Contractor Furnished Topsoil	CuYd	3558	$35.00	$124,530.00	$82,189.80	66%	$0.00	0%	$0.00	0%	$42,340.20	34%
32 9200 - 4.1	Seeding	Lb	2690	$10.00	$26,900.00	$17,754.00	66%	$0.00	0%	$0.00	0%	$9,146.00	34%
32 9200 - 4.3	Fertilizing	Lb	2293	$1.00	$2,293.00	$1,513.38	66%	$0.00	0%	$0.00	0%	$779.62	34%
32 9200 - 4.4	Weed Control	SqYd	42684	$0.50	$21,342.00	$14,085.72	66%	$0.00	0%	$0.00	0%	$7,256.28	34%
32 9200 - 4.2	Hydro-Mulching	Ton	17	$2,500.00	$43,000.00	$28,380.00	66%	$0.00	0%	$0.00	0%	$14,620.00	34%
33 9200 - 4.2	Temporary Seeding	Lb	269	$8.00	$2,152.00	$1,420.32	66%	$0.00	0%	$0.00	0%	$731.68	34%
31 2500 -4.1	Erosion Control Blanket	SqYd	10671	$4.00	$42,684.00	$28,171.44	66%	$0.00	0%	$0.00	0%	$14,512.56	34%
31 2500 - 4.2	Inlet Protection	Each	15	$175.00	$2,625.00	$1,732.50	66%	$0.00	0%	$0.00	0%	$892.50	34%
31 2500 - 4.3	Temporary Vehicle Tracking Control	Each	6	$1,500.00	$9,000.00	$5,940.00	66%	$0.00	0%	$0.00	0%	$3,060.00	34%
31 2500 - 4.4	Concrete Washout Area	Each	3	$300.00	$900.00	$594.00	66%	$0.00	0%	$0.00	0%	$306.00	34%
31 2500 - 4.5	Manhole Construction Plate Marker	Each	15	$300.00	$4,500.00	$2,970.00	66%	$0.00	0%	$0.00	0%	$1,530.00	34%
REMOVALS					1								
31 2300 - 4.2	Clear and Grub Tree	Each	12	$1,000.00	$12,000.00	$7,920.00	66%	$0.00	0%	$0.00	0%	$4,080.00	34%
31 2300 - 4.2	Remove Concrete Curb and Gutter	LF	9604	$4.50	$43,218.00	$28,523.88	66%	$0.00	0%	$0.00	0%	$14,694.12	34%
31 2300 - 4.2	Remove Asphalt Concrete Pavement	SqYd	12629	$6.00	$75,774.00	$50,010.84	66%	$0.00	0%	$0.00	0%	$25,763.16	34%
31 2300 - 4.2	Remove Concrete Pavement	SqYd	7733	$6.00	$46,398.00	$30,622.68	66%	$0.00	0%	$0.00	0%	$15,775.32	34%
31 2300 - 4.2	Remove Concrete Sidewalk	SqYd	278	$6.00	$1,668.00	$1,100.88	66%	$0.00	0%	$0.00	0%	$567.12	34%
31 2300 - 4.2	Salvage Traffic Sign for Reset	Each	16	$100.00	$1,600.00	$1,056.00	66%	$0.00	0%	$0.00	0%	$544.00	34%
31 2300 - 4.2	Saw Existing Asphalt	LF	128	$3.00	$384.00	$253.44	66%	$0.00	0%	$0.00	0%	$130.56	34%
31 2300 - 4.2	Saw Existing Concrete	LF	3572	$8.00	$28,576.00	$18,860.16	66%	$0.00	0%	$0.00	0%	$9,715.84	34%
31 2300 - 4.2	Tree Trimming	Each	6	$650.00	$3,900.00	$2,574.00	66%	$0.00	0%	$0.00	0%	$1,326.00	34%
TRENCHING, EXCAVATION, BACKFILLING					1								
31 2300 - 4.5	Trench Stabilization Material	Ton	500	$30.00	$15,000.00	$9,900.00	66%	$0.00	0%	$0.00	0%	$5,100.00	34%
31 2300 - 4.6	Imported Trench Backfill Material	Ton	750	$20.00	$15,000.00	$9,900.00	66%	$0.00	0%	$0.00	0%	$5,100.00	34%
31 2300 - 4.7	Locating Utility	Each	1	$150.00	$150.00	$99.00	66%	$0.00	0%	$0.00	0%	$51.00	34%
31 2300 - 4.8	Verify Utility	Each	84	$175.00	$14,700.00	$9,702.00	66%	$0.00	0%	$0.00	0%	$4,998.00	34%
GRADING					1								
31 2400 - 4.3	Unclassified Excavation	CuYd	7800	$10.00	$78,000.00	$51,480.00	66%	$0.00	0%	$0.00	0%	$26,520.00	34%
31 2400 - 4.4	Unclassified Excavation, Digouts	CuYd	780	$18.00	$14,040.00	$9,266.40	66%	$0.00	0%	$0.00	0%	$4,773.60	34%
31 2400 - 4.5	Scarify and Recompact Subgrade	SqYd	16370	$1.00	$16,370.00	$10,804.20	66%	$0.00	0%	$0.00	0%	$5,565.80	34%
31 2400 - 4.6	Compaction - Moisture Density Tests	Each	120	$125.00	$15,000.00	$9,900.00	66%	$0.00	0%	$0.00	0%	$5,100.00	34%
31 2400 - 4.7	Water For Embankment	Mgal	78	$15.00	$1,170.00	$772.20	66%	$0.00	0%	$0.00	0%	$397.80	34%
32 1123 - 4.2	Geotextile Fabric For Subgrade Stabilization	SqYd	26230	$3.00	$78,690.00	$51,935.40	66%	$0.00	0%	$0.00	0%	$26,754.60	34%
WATERMAIN					1								
33 1000 - 4.2	Remove and Salvage Fire Hydrant	Each	8	$500.00	$4,000.00	$4,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
34 1000 - 4.3	Bore and Jack 18" Casing Watermain	LF	200	$600.00	$120,000.00	$120,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	6" Watermain	LF	286	$32.00	$9,152.00	$9,152.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	8" Watermain	LF	226	$48.00	$10,848.00	$10,848.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	12" Watermain	LF	7156	$70.00	$500,920.00	$500,920.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.3	12" Watermain - Directional Drill	LF	150	$120.00	$18,000.00	$18,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	4" MJ Gate Valve & Box W/ Joint Restraints	Each	1	$1,900.00	$1,900.00	$1,900.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	6" MJ Gate Valve & Box W/ Joint Restraints	Each	10	$2,100.00	$21,000.00	$21,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	8" MJ Gate Valve & Box W/ Joint Restraints	Each	5	$2,500.00	$12,500.00	$12,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.4	12" MJ Gate Valve & Box W/ Joint Restraints	Each	19	$3,800.00	$72,200.00	$72,200.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	8" MJ Bend (45 Degree) w/ Joint Restraints	Each	4	$750.00	$3,000.00	$3,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	10" MJ Bend (45 Degree) w/ Joint Restraints	Each	6	$450.00	$2,700.00	$2,700.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" x 6" MJ Tee w/ Joint Restraints	Each	11	$1,000.00	$11,000.00	$11,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%

33 1000 - 4.6	8" x 6" MJ Tee w/ Joint Restraints	Each	4	$750.00	$3,000.00	$3,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" x 8" MJ Tee w/ Joint Restraints	Each	4	$800.00	$3,200.00	$3,200.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" x 10" MJ Tee w/ Joint Restraints	Each	3	$850.00	$2,550.00	$2,550.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" x 4" MJ Tee w/ Joint Restraints	Each	1	$900.00	$900.00	$900.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	6" x 4" MJ Reducer w/ Joint Restraints	Each	2	$500.00	$1,000.00	$1,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	12" x 10" MJ Reducer w/ Joint Restraints	Each	8	$550.00	$4,400.00	$4,400.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	10" x 8" MJ Reducer w/ Joint Restraints	Each	1	$600.00	$600.00	$600.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	4" MJ Sleeve w/ Joint Restraints	Each	2	$300.00	$600.00	$600.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	6" MJ Sleeve w/ Joint Restraints	Each	3	$350.00	$1,050.00	$1,050.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	8" MJ Sleeve w/ Joint Restraints	Each	7	$450.00	$3,150.00	$3,150.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.6	10" MJ Sleeve w/ Joint Restraints	Each	7	$400.00	$2,800.00	$2,800.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.7	Fire Hydrant w/ Joint Restraints	Each	8	$3,250.00	$26,000.00	$26,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.8	Fire Hydrant Extensions	Each	8	$1,000.00	$8,000.00	$8,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.9	Temporary Water Service - Connection	Each	10	$350.00	$3,500.00	$3,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.10	Temporary Water Service	LS	1	$55,000.00	$55,000.00	$55,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.11	Temporary Fire Hydrant	Each	1	$1,800.00	$1,800.00	$1,800.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.12	Cut and Tie To Existing Watermain	Each	14	$1,500.00	$21,000.00	$21,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.13	10" x 1" Water Service Saddle Tap & Corp	Each	32	$850.00	$27,200.00	$27,200.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.13	10" x 2" Water Service Saddle Tap & Corp	Each	5	$900.00	$4,500.00	$4,500.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.14	1" Water Service Curb Stop & Box	Each	32	$500.00	$16,000.00	$16,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.14	2" Water Service Curb Stop & Box	Each	3	$900.00	$2,700.00	$2,700.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.15	1" Water Service Piping	LF	640	$25.00	$16,000.00	$16,000.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.15	2" Water Service Piping	LF	70	$30.00	$2,100.00	$2,100.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
33 1000 - 4.18	20" PVC Encasement	LF	120	$120.00	$14,400.00	$14,400.00	100%	$0.00	0%	$0.00	0%	$0.00	0%
STORM SEWER					1								
33 4100 - 4.2	Remove Drop Inlet	Each	11	$450.00	$4,950.00	$0.00	0%	$0.00	0%	$4,950.00	100%	$0.00	0%
33 4100 - 4.2	Remove Storm Sewer Manhole	Each	2	$550.00	$1,100.00	$0.00	0%	$0.00	0%	$1,100.00	100%	$0.00	0%
33 4100 - 4.2	Remove Storm Sewer Pipe	LF	466	$12.00	$5,592.00	$0.00	0%	$0.00	0%	$5,592.00	100%	$0.00	0%
33 4100 - 4.3	18" RCP Class 3, Furnish	LF	512	$20.00	$10,240.00	$0.00	0%	$0.00	0%	$10,240.00	100%	$0.00	0%
33 4100 - 4.3	18" RCP, Install	LF	512	$35.00	$17,920.00	$0.00	0%	$0.00	0%	$17,920.00	100%	$0.00	0%
33 4100 - 4.5	Connect to Existing Storm Sewer Pipe	Each	6	$750.00	$4,500.00	$0.00	0%	$0.00	0%	$4,500.00	100%	$0.00	0%
33 4100 - 4.6	Storm Sewer Junction Box, Type 1 (4'X4')	Each	2	$5,500.00	$11,000.00	$0.00	0%	$0.00	0%	$11,000.00	100%	$0.00	0%
33 4100 - 4.7	Sioux Falls Drop Inlet (3'X6')	Each	2	$4,250.00	$8,500.00	$0.00	0%	$0.00	0%	$8,500.00	100%	$0.00	0%
33 4100 - 4.7	Type B Inlet with Frame and Grate	Each	9	$3,250.00	$29,250.00	$0.00	0%	$0.00	0%	$29,250.00	100%	$0.00	0%
33 4100 - 4.7	Special Type B Inlet with Frame and Grate	Each	1	$4,500.00	$4,500.00	$0.00	0%	$0.00	0%	$4,500.00	100%	$0.00	0%
33 4100 - 4.8	Adjust Junction Box	Each	2	$350.00	$700.00	$0.00	0%	$0.00	0%	$700.00	100%	$0.00	0%
SANITARY SEWER					1								
33 3000 - 4.3	6" Dia Gravity Sewer Pipe	LF	2310	$35.00	$80,850.00	$0.00	0%	$0.00	0%	$0.00	0%	$80,850.00	100%
33 3000 - 4.3	8" Dia Gravity Sewer Pipe	LF	360	$42.00	$15,120.00	$0.00	0%	$0.00	0%	$0.00	0%	$15,120.00	100%
33 3000 - 4.3	15" Dia Gravity Sewer Pipe	LF	3615	$55.00	$198,825.00	$0.00	0%	$0.00	0%	$0.00	0%	$198,825.00	100%
33 3000 - 4.5	Bore and Jack 24" Steel Casing Pipe	LF	200	$500.00	$100,000.00	$0.00	0%	$0.00	0%	$0.00	0%	$100,000.00	100%
33 3000 - 4.6	15"x6" Sanitary Sewer Service Connection	Each	33	$400.00	$13,200.00	$0.00	0%	$0.00	0%	$0.00	0%	$13,200.00	100%
33 3000 - 4.7	60" Dia Sanitary Sewer Manole - Lined	Each	11	$600.00	$6,600.00	$0.00	0%	$0.00	0%	$0.00	0%	$6,600.00	100%
33 3000 - 4.9	Connect to Existing Sanitary Sewer Pipe	Each	4	$400.00	$1,600.00	$0.00	0%	$0.00	0%	$0.00	0%	$1,600.00	100%
33 3000 - 4.11	Adjustment of Manhole and Cover	Each	11	$400.00	$4,400.00	$0.00	0%	$0.00	0%	$0.00	0%	$4,400.00	100%
SURFACING					1								
32 1123 - 4.3	Water For Granular Material	MGal	176	$16.00	$2,816.00	$1,858.56	66%	$0.00	0%	$0.00	0%	$957.44	34%
32 1123 -4.1	Base Course	Ton	14650	$19.00	$278,350.00	$183,711.00	66%	$0.00	0%	$0.00	0%	$94,639.00	34%
31 2400 -4.7	Subbase Foundation Aggregate	Ton	1465	$30.00	$43,950.00	$29,007.00	66%	$0.00	0%	$0.00	0%	$14,943.00	34%
32 1216 -4.1	Asphalt Concrete	SY	12630	$26.00	$328,380.00	$216,730.80	66%	$0.00	0%	$0.00	0%	$111,649.20	34%
32 1216 -4.2	Asphalt Concrete Sampling and Testing	Each	6	$600.00	$3,600.00	$2,376.00	66%	$0.00	0%	$0.00	0%	$1,224.00	34%
32 1613 -4.4	PCC Approach Pavement, 6" Thick	SqYd	1067	$75.00	$80,025.00	$52,816.50	66%	$0.00	0%	$0.00	0%	$27,208.50	34%
32 1613 -4.5	Reinforced PCC Approach Pavement, 6" Thick	SqYd	143	$95.00	$13,585.00	$8,966.10	66%	$0.00	0%	$0.00	0%	$4,618.90	34%
32 1613 -4.11	PCC Pavement, 8.5" Thick, Non-Reinforced	SqYd	6667	$130.00	$866,710.00	$572,028.60	66%	$0.00	0%	$0.00	0%	$294,681.40	34%
33 1613 -4.12	Dowel Bar Assembly	Each	830	$40.00	$33,200.00	$21,912.00	66%	$0.00	0%	$0.00	0%	$11,288.00	34%
34 1613 -4.13	Insert Steel Bar in PCC Pavement	Each	830	$22.00	$18,260.00	$12,051.60	66%	$0.00	0%	$0.00	0%	$6,208.40	34%
32 1613 -4.3	Concrete Fillet Section, 6" Thick	SqYd	256	$120.00	$30,720.00	$20,275.20	66%	$0.00	0%	$0.00	0%	$10,444.80	34%
32 1613 -4.1	Concrete Curb & Gutter	Ft	9604	$21.00	$201,684.00	$133,111.44	66%	$0.00	0%	$0.00	0%	$68,572.56	34%
32 1613 -4.2	Concrete Valley Gutter, 6" Thick	SqYd	171	$120.00	$20,520.00	$13,543.20	66%	$0.00	0%	$0.00	0%	$6,976.80	34%
32 1613 - 4.6	4" Concrete Sidewalk	SqFt	2500	$8.50	$21,250.00	$14,025.00	66%	$0.00	0%	$0.00	0%	$7,225.00	34%
32 1613 - 4.6	6" Concrete Sidewalk	SqFt	2400	$10.00	$24,000.00	$15,840.00	66%	$0.00	0%	$0.00	0%	$8,160.00	34%
32 1613 - 4.8	Concrete Sampling and Testing	Each	20	$550.00	$11,000.00	$7,260.00	66%	$0.00	0%	$0.00	0%	$3,740.00	34%
32 1613 - 4.9	Type B Detectable Warnings	SqFt	104	$65.00	$6,760.00	$4,461.60	66%	$0.00	0%	$0.00	0%	$2,298.40	34%
				TOTAL =	$4,847,900	$3,200,117	66%	$0	0%	$98,252	2%	$1,549,522	32%

BANNER
Banner Associates, Inc.
409 22nd Ave So, Box 298
Brookings, SD 57006
Tel 605.692.6342
Toll Free 855.323.6342
www.bannerassociates.com

OPINION OF PROBABLE PROJECT COST

PROJECT Madison Sanitary & Storm Sewer Improvements **BAI NO** 21064.12
LOCATION Madison, South Dakota
DATE 9/27/2021

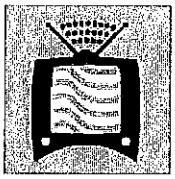
SEGMENT 6 - SANITARY SEWER IMPROVEMENTS

ITEM NO.	SPEC SECTION	DESCRIPTION OF WORK AND MATERIALS	QTY	UNIT	UNIT PRICE	TOTAL
1		Traffic Control	1	Lump Sum	$10,000.00	$10,000.00
2		Mobilization	1	Lump Sum	$52,000.00	$52,000.00
3		Remove Existing Bituminous Surface	1,660	SY	$8.00	$13,280.00
4		Remove Concrete Curb and Gutter	400	LF	$6.00	$2,400.00
5		Remove Concrete Manhole/Intake	3	Each	$600.00	$1,800.00
6		Compaction - Moisture/Density Tests	12	Each	$225.00	$2,700.00
7		Granular Embedment Material	280	Ton	$25.00	$7,000.00
8		Base Course and Gravel Surfacing	920	Ton	$24.00	$22,080.00
9		Geotextile Fabric	1,660	SY	$5.50	$9,130.00
10		Asphalt Concrete - Class E, Type 1	510	Ton	$125.00	$63,750.00
11		Concrete Curb and Gutter	400	LF	$28.00	$11,200.00
12		18" RCP Class 3 Furnish and Install	24	LF	$70.00	$1,680.00
13		Type B Inlet with Frame and Grate	1	Each	$3,250.00	$3,250.00
14		6" Diameter Gravity Sewer Pipe	320	LF	$50.00	$16,000.00
15		8" Diameter Gravity Sewer Pipe	20	LF	$58.00	$1,160.00
16		12" Diameter Gravity Sewer Pipe	400	LF	$75.00	$30,000.00
17		Sanitary Sewer Manhole	2	Each	$4,000.00	$8,000.00
18		12"x6" Sanitary Sewer Wye	8	Each	$950.00	$7,600.00
19		Watermain Crossings	6	Each	$1,200.00	$7,200.00
20		Connect to Existing Sanitary Sewer Pipe	12	Each	$1,250.00	$15,000.00
21		Erosion Control and grass establishment	1	Lump Sum	$12,000.00	$12,000.00
22		Root Removal	20	Hr	$350.00	$7,000.00
23		Clean Deposits or Debris	20	Hr	$350.00	$7,000.00
24		6" Sanitary Sewer Clean/Televise & CIPP Lining	345	LF	$32.00	$11,040.00
25		8" Sanitary Sewer Clean/Televise & CIPP Lining	4,337	LF	$32.00	$138,784.00
26		Sanitary Sewer Final Televise	5,500	LF	$1.25	$6,875.00
27		Short Length Lateral Liner and Connection (5' Length)	61	Each	$3,350.00	$204,350.00
28		Chemical Grout Sealing	20	Gal	$200.00	$4,000.00
29		By-Pass Pumping	1	Lump Sum	$15,000.00	$15,000.00
30		Cut Protruding Service Taps	17	Each	$350.00	$5,950.00
31		Point Repair Excavation - Mainline	3	Each	$4,000.00	$12,000.00
32		Point Repair Excavation - Lateral	3	Each	$3,000.00	$9,000.00
					Opinion of Probable Construction Costs =	**$718,300**

LAKE COUNTY
FREE
ELECTRONIC RECYCLING
DROP OFF EVENT

Saturday, October 30, 2021

9:00 a.m. to 3:00 p.m.



Madison Recycling Center
800 SW 7th Street
Madison, SD 57042

ITEMS ACCEPTED:

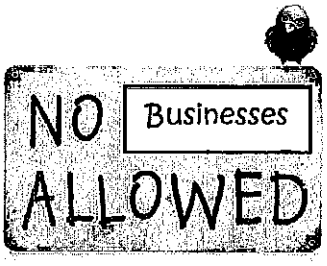
- Adding Machines • Answering Machines • Calculators • Camcorders • Cameras
- CBs/Two-Way Radios • CD/DVD Players • CD ROM/Zip/Tape Drives
- Cell Phones/Pagers • Copy Machines • Cords & Cables • CPU's • Laptops • PC's
- Hard Drives •Holiday Lights • Joystick/Game • Controls • Keyboard & Mouse
- Modems • Monitors • MP3 Players • Palm Organizers • Paper Shredders
- Portable CD Players • Printers • Speakers • Radios • Record Players • Scanners
- Telephones • Televisions • VCRs • Video Game Players

ITEMS NOT ACCEPTED (included but not limited to)

- Microwaves • Humidifiers • Dehumidifiers • Vacuums • Light Fixtures
- Exercise Equipment • Hair Dryers • Curling Irons • Electric Toothbrushes
- Coffee pots • Crock Pots • Blenders • Space Heaters

Residential Only!

No Businesses, No Rental Property Management Owners,
No Governmental Entities,
No Nonprofit Organizations, and No schools.



For questions regarding the event, please contact
Lake County Natural Resources 605-256-7610
Or
Madison Public Works 605-256-7515

THE CITY OF MADISON