City of Ironwood
213 S. Marquette St.
Ironwood, MI 49938

Phone: (906) 932-5050
Fax: (906) 932-5745
www.ironwoodmi.gov

IRONWOOD
MICHIGAN | Find Your North

AGENDA
REGULAR IRONWOOD CITY COMMISSION MEETING
May 12, 2025

LOCATION: IRONWOOD MEMORIAL BUILDING
COMMISSION CHAMBERS
213 S. MARQUETTE ST.
IRONWOOD, MI 49938

Public Hearing – 5:20 P.M. - Newport Heights Funding Application
Public Hearing – 5:25 P.M. - Newport Heights Water Project- Preliminary Engineering Report
Regular Meeting – 5:30 P.M.

ZOOM OPTION AVAILABLE FOR THE PUBLIC
(Please visit the City website at www.ironwoodmi.gov or the notice posted at the Memorial Building for Zoom Webinar login instructions.)

PUBLIC HEARING
5:20 P.M.

1. Open Public Hearing.
2. Roll Call
3. Public Hearing: To hear comments on the Final Project Planning Document for the Newport Heights Water System Upgrades Project for a Drinking Water State Revolving Fund (DWSRF – Water) Application.
4. Close Public Hearing.

PUBLIC HEARING
5:25 P.M.

1. Open Public Hearing.
2. Public Hearing: To hear comments on the USDA Rural Development Preliminary Engineering Report for the Newport Heights Water System Upgrades Project.
3. Close Public Hearing.

REGULAR MEETING
5:30 P.M.

A. Regular Meeting Called to Order.
Pledge of Allegiance to the United States of America.

B. Recording of the Roll.

C. Approval of the Consent Agenda. *
All items with an asterisk (*) are considered to be routine by the City Commission and will be enacted by one motion. There will be no separate discussion of those items unless a Commission member or citizen so requests, in which event the item will be removed from the General Order of Business and considered in its normal sequence on the Agenda.

*1) Approval of Minutes:
a. Regular City Commission Meeting Minutes of April 28, 2025.

*2) Review and Place on File:
a. Pat O'Donnell Civic Center Board Meeting Minutes of April 7, 2025.
b. Ironwood Planning Commission Meeting Minutes of April 3, 2025.
c. Ironwood Parks and Recreation Committee Meeting Minutes of March 3, 2025.

D. Approval of the Agenda.

E. Citizens wishing to address the Commission on Items on the Agenda. (Three Minute Limit).

F. Citizens wishing to address the Commission on Items not on the Agenda. (Three Minute Limit).

UNFINISHED BUSINESS

G. Discuss and consider approving the Rural Development Pay Package #21 in the amount of $111,701.04 for the City of Ironwood – Water Treatment Plant Phase I Project and authorize the Mayor to sign all applicable documents.

H. Discuss and consider approving Payment #5, for C.D. Smith, in the amount of $630,568.72 for the City of Ironwood – Water Treatment Plant Phase 2 Project and authorize the Mayor to sign all applicable documents.

I. Discuss and consider adopting Resolution #025-011, a Resolution approving the Final Project Planning Document for the Newport Heights Water System Improvement Project and designating the City Manager as the authorized Project Representative.

J. Discuss and consider awarding the Phase 5B Water and Sewer Upgrades Project bid to Jake's Excavating and Landscaping, LLC., contingent upon the approval of Change Order #1, increasing the Contract amount to $5,927,008.62 and contingent upon concurrence of award by USDA Rural Development.

K. Discuss and consider approving Change Order #1, for Jake's Excavating and Landscaping, LLC., which is an increase of $2,048,760.64 for the Phase 5B Water and Sewer Upgrades Project and authorize the Mayor to sign all applicable documents.

L. Discuss and consider authorizing the Mayor to sign the Construction Contract and Notice to Proceed to Jake's Excavating and Landscaping, LLC., for the Phase 5B Water and Sewer Upgrades Project prior to loan closing.

NEW BUSINESS

M. Discuss and consider authorizing City staff to begin the process of filling the upcoming vacancy in the Department of Public Works.

N. Discuss and consider scheduling a Public Hearing to hear comments on the funding application to the Michigan Community Development Block Grant for a Water Related Infrastructure grant for the Old County Road Waterline Project at 5:25 P.M. on Tuesday, May 27, 2025.

O. Discuss and consider financial support to the Friends of the Library fundraising campaign for the library addition.

P. Manager’s Report.

Q. Other Matters.

R. Adjournment.

Proceedings of the Ironwood City Commission Meeting

A Regular Meeting of the Ironwood City Commission was held on April 28, 2025, at 5:30 P.M., in the Commission Chambers, Second Floor of the Municipal Memorial Building in the City of Ironwood.

A. Mayor Corcoran called the Regular Meeting to Order at 5:30 P.M.

B. Recording of the Roll.
PRESENT: Commissioners Korpi, Mildren, Semo, and Mayor Corcoran
ABSENT: Commissioner Andresen (excused)

C. Approval of the Consent Agenda.
1) Approval of Minutes:
a. Regular City Commission Meeting Minutes of April 14, 2025.
b. Closed Session Meeting Minutes of April 14, 2025.
2) Review and Place on File:
a. Human Relations and Equity Committee Meeting Minutes of January 14, and February 11, 2025.

Motion *was made by Semo, seconded by Mildren, to approve the Consent Agenda as presented. Unanimously passed by roll call vote.*

D. Approval of the Agenda.

Motion *was made Mildren, seconded by Korpi, and carried, to approve the Agenda as presented.*

E. Citizens wishing to address the Commission on Items on the Agenda. (Three Minute Limit).
There were none.

F. Citizens wishing to address the Commission on Items not on the Agenda. (Three Minute Limit).
Cindy Niemi addressed the Commission on four properties that need to be looked at for blight, building, and code enforcement action.

G. Presentation: 2025 Blight Plans, Andrew DiGiorgio, Ironwood Public Safety Director.

IPSD Director DiGiorgio informed the Commission that the 2025 Blight Enforcement season has begun, with 14 notices sent out so far. He shared that the City is will likely use a third-party company as an option for property cleanups to speed up the process and avoid pulling DPW staff from other projects. IPSD officers have again been assigned to specific areas, as this approach was effective last year. Director DiGiorgio reminded the public that blight concerns can be reported to Ironwood Public Safety by speaking with an officer, calling (906) 932-1234, leaving a voicemail with an address or property owner, using Messenger, contacting city offices, or visiting the Public Safety building Monday–Friday, 7:30 AM to 3:30 PM. The Commission thanked Ironwood Public Safety for their efforts.

H. Review and Place on File:
1. Revenue & Expenditure Report.
2. Cash and Investment Summary Report.

Motion *was made by Semo, seconded by Mildren, and carried, to receive and place on file the Statement of Revenue & Expenditures Report for the month ending March 2025, and the Cash and Investment Summary Report for March 2025.*

I. Approval of Monthly Check Register Report.

Motion *was made by Semo, seconded by Korpi, to approve the Check Register Report for March 2025 as presented. Unanimously passed by roll call vote.*

UNFINISHED BUSINESS

J. Discuss and consider approval of the 2025-2026 Fiscal Year Commission Goals.

Motion *was made by Semo, seconded by Korpi, to approve the 2025-2026 Fiscal Year Commission Goals. Unanimously passed by roll call vote.*

K. Discuss and consider awarding the Longyear Park Playground bid to Sinclair Recreation in the amount of $74,000.00 for Option 2.

Motion *was made by Semo, seconded by Mildren, to award the Longyear Park Playground bid to Sinclair Recreation in the amount of $74,000.00 for Option 2. Unanimously passed by roll call vote.*

L. Discuss and consider approving Change Order #13, for C.D. Smith, which is an increase of $10,330.33 for the Water Treatment Plant Phase 1 Project and authorize the Mayor to sign all applicable documents.

Motion *was made by Korpi, seconded by Mildren, to approve Change Order #13, for C.D. Smith, which is an increase of $10,330.33 for the Water Treatment Plant Phase 1 Project and authorize the Mayor to sign all applicable documents. Unanimously passed by roll call vote.*

M. Discuss and consider approving Change Order #6, for C.D. Smith, which is an increase of $21,453.92 for the Water Treatment Plant Phase 2 Project and authorize the Mayor to sign all applicable documents.

Motion *was made by Mildren, seconded by Korpi, to approve Change Order #6, for C.D. Smith, which is an increase of $21,453.92 for the Water Treatment Plant Phase 2 Project and authorize the Mayor to sign all applicable documents. Unanimously passed by roll call vote.*

NEW BUSINESS

N. Discuss and consider scheduling a Public Hearing to hear comments on the Final Project Planning Document for the Newport Heights Water System Upgrades Project for a Drinking Water State Revolving Fund (DWSRF – Water) Application at 5:20 P.M. on Monday, May 12, 2025.

Motion *was made by Mildren, seconded by Semo, and carried, to schedule a Public Hearing to hear comments on the Final Project Planning Document for the Newport Heights Water System Upgrades Project for a Drinking Water State Revolving Fund (DWSRF – Water) Application at 5:20 P.M. on Monday, May 12, 2025.*

O. Discuss and consider scheduling a Public Hearing to hear comments on the USDA Rural Development Preliminary Engineering Report for the Newport Heights Water System Upgrades Project at 5:25 P.M. on Monday, May 12, 2025.

Motion *was made by Korpi, seconded by Semo, and carried, to schedule a Public Hearing to hear comments on the Final Project Planning Document for the Newport Heights Water System Upgrades Project for a Drinking Water State Revolving Fund (DWSRF – Water) Application at 5:25 P.M. on Monday, May 12, 2025.*

P. Manager's Report.

City Manager Paul Anderson provided the following verbal updates:

- *$11MIL Phase 1 of the water plant project continues with CD Smith Construction. We have been running the Phase 1 pump station for a few weeks now. Some other additional work is scheduled for May and June to close out Phase 1 funding. This includes installation of a security fence, well rehab work and asphalt paving of the driveway around the water plant.*
- *$11MIL Phase 2 of the water treatment plant is underway. CD Smith has made two (of three) pours of concrete filter walls on the interior of the building. Many items for Phase 2 construction are going through the submittal and ordering process timeline right now. Soon the construction of the garage and the 250,000-gallon clear well will start. A lot of the Phase 2 work will be completed by fall 2025 and all work is anticipated to be completed by spring or early summer 2026.*
- *Phase 5A water system project is on hold for the season. The remaining work for next year consists of getting grass to grow, raising a couple of hydrants, paving the second lift of asphalt and other miscellaneous work.*
- *Phase 5B water and sewer project - we are currently working through the bid award process. Construction will occur during both the 2025 and 2026 construction seasons. We are working on Change Ordering in the sewer work for the 5C project area, in this contract for 5B which has the sewer funding. We are also working on Change Ordering in some sewer lining work into this contract to use as much of the sewer grant money as possible.*
- *Phase 5C $3MIL water project for reconstructing portions of Coolidge, Harding, and Lowell St from US2 to Harding. This was awarded at the 4/14 meeting and work will likely start in early May by Jakes Excavating. We will have a neighborhood information meeting this Thursday at 5:30 PM.*
- *The $3MIL lead service line replacement project with Jakes Excavating is back up and running. To date, we have changed out almost 260 galvanized lines with copper. Another 163 lines were suspected to be galvanized but were found to be Copper.*
- *Jakes is back working on the $598,000 TMF grant. This is identifying material types of water services on ~520 unknown water services. They continue to find mainly copper lines. This is good news for our long-term liability of the number of services that need to be replaced. They expect to have this work complete in the next few weeks.*
- *2025 Small Urban Grant Project Update: $375K grant will be split between these two projects:*
- *Project 1 ($625K): going to replace the water main and street on Superior St from US2 to the City boundary, will repave Curry St around the school.*

    i. *This is on the June letting (bid) through MDOT. Construction should occur this fall.*

- *Project 2 ($177K) (this summer): Chip seal the following roads:*
  - *Greenbush north of US2*
  - *Frenchtown Road*
  - *Brogan St*
  - *Penokee Road*
  - *South Suffolk St*
  - *Burma Road*
- *Our sewer lift station generator has been delivered and we are waiting on the propane company to upsize the gas service line. This was scheduled to occur today. Once that is finalized, we will complete the startup process and complete billing so that we can get reimbursed for our $50,000 MMRMA RAP grant.*
- *Library Community Spaces Grant Project: Ruotsala Construction has begun with demo of the existing tree and the existing ramp. They will begin work on the foundation soon (any day). The construction project will continue through summer 2025 with completion in the spring of 2026.*
- *Newport Heights water future project: Coleman Engineering is working on a Preliminary Engineering Report for a USDA RD and EGLE funding application.*
- *Our 24 sanitary sewer flow meters have been installed again for the upcoming spring/summer/fall season. We will be monitoring the meters and working with our vendor to analyze results as we get rainstorms this summer.*
- *I have been making phone calls and getting agreements set up for the remaining 14 roof drain disconnections that the private property owners need to have completed by July 1st this summer. Most of the property owners have plans to comply with this requirement.*
- *A new State of Michigan Community Development Block Grant opportunity is opening for applications on 5/30/25. The City of Ironwood is on the short list of entities who are eligible to apply for water funding between $500k and $2MIL with a likely 25% match required. Staff has an idea of a project that would fit well under this grant program, but we want to attend the webinar on the grant on 4/30/25 before we move forward.*
- *Curry Park Campground: The next few weeks DPW will work on getting grass to grow and need to install a couple of trees/shrubs. DPW will pave some of the spaces that were left by the removal of the bathroom exterior walls.*
- *Seasonal weight restrictions were put into effect on 3/3/25 following the Gogebic County Weight restrictions. They are expected to go off in the next two weeks, with a current estimate of 5/12/25.*
- *Surplus property schedule*
  - ***April 29** at 8:30 a.m. Bid Openings*
  - ***Later day April 29 through 3:30 p.m. May 1** - Items to be paid for and picked up.*
  - ***May 2** – Remaining or unclaimed items to be removed from Legion to Memorial Building courtyard for Clean-Up Weekend or brought to transfer station.*
- *The DPW was happy to have our new employee, Jerry Hitter, who started on 4/21/25.*
- *Community Exchange with Hancock, MI. We met Hancock in Hancock two weeks ago to exchange ideas on community development. Tomorrow, they will be coming to Ironwood to share ideas and success stories.*
- *I would like to congratulate Jen Jacobson on obtaining her Level 1 Michigan Professional Municipal Clerk certification. Jen has been working for many years on obtaining the experience and training required for this certification. The City of Ironwood is fortunate to have such an experienced and now certified Professional*

Municipal Clerk. We are thankful for her every day for the job that she does and the leadership that she brings to our team here in the City of Ironwood.

- *IPSD blight update given earlier this meeting.*
- *Social Security management from Escanaba provided the following schedule for starting May 20th through September 2025: The office will be open to the public on Tuesday, Wednesday, Thursday from 9:00 a.m. – 3:00 p.m.*
- *Good luck to the participants in the upcoming Red Bull 400 happening out at Copper Peak on May 10th – this should be another fun day! And it's super exciting that the $20MIL construction project will be kicking off two days later!*
- *Spring Cleanup Days will be this Friday and Saturday. Friday hours will be from 8-2 and Saturday will be from 8-11.*
- *The Compost Site will be opening this Thursday. We will be following our standard compost site hours of Thursday 10-4, Friday from 10-4 and Saturdays from 9-2. We thank Dan Nelmark for coming back to be our compost site attendant.*
- *Curry Park campground will be opening on 5/21. Our DPW will be working on getting the water system up and running and tested in the meantime.*
- *Norrie Park and Mt Zion gates should now be open.*
- *Lastly, I will be out of the office next week, the week of May 5th.*

Q. Other Matters.

Commissioner Semo requested to be excused from the May 12, 2025, meeting.

***Motion** was made by Mildren, seconded by Korpi, and carried, to excuse Commissioner Semo from the May 12, 2025, meeting.*

Commissioner Korpi thanked the DPW for setting up the nets at Patterson Park.

Commissioner Mildren shared an idea of having the City look into working with the Michigan Department of Transportation to create an Iron Belle access point at the Michigan Welcome Center on US2.

Mayor Corcoran thanked Tom and Andrew for their work on obtaining the City's New Fire Truck.

R. Adjournment.

***Motion** was made by Semo, seconded by Mildren, and carried, to adjourn the meeting at 6:18 P.M.*

Kim Corcoran, Mayor

Jennifer L. Jacobson, City Clerk

Civic Center Meeting Minutes

4/7/25

1. Meeting called to order by Stempihar at 5:00 pm
2. Roll Call: Gullan, Mildren, Pellinen, Peterson, Re, Stempihar, Thomason, and Mgr. Kivisto present.
3. Motion to approve the agenda was made by Re, seconded by Mildren. Motion approved.
4. Motion to approve the minutes was made by Gullan, seconded by Mildren. Motion approved.
5. Motion to receive and place on file the financial statements was made by Mildren, seconded by Re. Roll call vote was as follows: Gullan-yes, Pellinen-yes, Stempihar-yes, Thomason-yes, Re-yes, Mildren-yes. Motion approved.
6. Citizens wishing to address the Board on items on the agenda: N/A
7. Citizens wishing to address the Board on items not on the agenda: N/A
8. Old Business:
    A. N/A
9. New Business:
    A. Budget 2025-2026: Discussion about the budget for the fiscal year 2025-2026 was held. Discussion included but wasn't limited to reviewing the initial request budget.
    B. Head Start Celebration Petting Zoo: Discussion about the Head Start celebration was held. Discussion included but wasn't limited to the celebration including a petting zoo this year; protecting the floor; and clean up.
10. Manager's Report:
    A. Gogebic Range Health Foundation Grant: Discussion about the Gogebic Range Health Foundation Grant was held. Discussion included but wasn't limited to the application being submitted.
    B. Sidewalk Project: Discussion about the sidewalk project was held. Discussion included but wasn't limited to the grate; drainage system; and roof.
    C. Alumni and Veterans' Games: Discussion about the alumni and Veterans' games was held. Discussion included but wasn't limited to both games went well; alumni game made about $1,020; Veterans game made about $2500; and possibly having a home and home series with the Veterans team next season.
    D. Polar Bear Hockey Club and Ice Crystals Figure Skating Club Contracts: Discussion about the PBHC and ICFSC contracts was held. Discussion included but wasn't limited to both contracts being completed.
    E. North Lakeland Hockey Hours: Discussion about North Lakeland Hockey ice hours was held. Discussion included but wasn't limited to the team having interest in renting ice from the Civic Center again this year; and needing a contract to cross state lines for practice per WAHA regulations.

11. Other Matters:
    A. Lumberjacks Contract: Discussion about the Lumberjacks contract was held. Discussion included but wasn't limited to Doug saying the team is happy to be in Ironwood; approximate 350 practice hours and 100 game hours was too much; asking to be equitable about the contract—overage paid per the executed contract versus the hours used; getting another contract together for next season as soon as possible; and the possibility of having a multi-year contract moving forward.
12. Closed Session: Motion to go into closed session pursuant to MCL 15.268 (1) (d) was made by Re, seconded by Mildren. Roll call vote was as follows: Gullan-yes, Pellinen-yes, Peterson-yes, Stempihar-yes, Thomason-yes, Mildren-yes, Re-yes. Motion approved.
13. Open Session: Motion to return to open session was made by Peterson, seconded by Re. Roll call vote was as follows: Gullan-yes, Pellinen-yes, Mildren-yes, Stempihar-yes, Thomason-yes, Re-yes, Peterson-yes.
14. Lumberjacks Junior Hockey Team Contract: Discussion about the Lumberjacks Junior Hockey Team contract was held.
    A. Motion for the Lumberjacks to fulfill the existing contract in the about of $6,857.14 and upon a new contract for the 2025/26 season being signed, the Civic Center will become a sponsor of the team by reimbursing the same dollar amount to the team was made by Mildren, seconded by Re. Roll call vote was as follows: Gullan-yes, Pellinen-yes, Peterson-yes, Stempihar-yes, Thomason-yes, Re-yes, Mildren-yes. Motion approved.
15. Next Meeting Monday, May 5th, 2025, at 5:00 pm at the Civic Center.
16. Motion to adjourn at 6:14 pm was made by Re, seconded by Mildren. Motion approved.

IRONWOOD
MICHIGAN | Find Your North

PROCEEDINGS OF THE IRONWOOD PLANNING COMMISSION
Thursday, April 3, 2025

A Regular Meeting of the Planning Commission was held on Thursday, April 3, 2025, in the City of Ironwood Memorial Building Women's Club Room.

1. Call to Order: Chair Davey called the meeting to Order at 5:00 p.m.

2. Recording of the Roll:

MEMBER	PRESENT YES	NO	EXCUSED	NOT EXCUSED
Sam Davey	X			
Scott Bissell	X			
Klaus Kutschke	X			
Mark Silver	X			
John Spence	X			
Rich Jenkins	X			
Grant Boelter		X	X	
David Andresen ex-officio, non-voting member	X			
	7	**1**		

Also present: Community Development Director Tom Bergman and Community Development Assistant Tim Erickson.

3. Approval of the March 6, 2025, meeting minutes.

   Motion by Spence to approve the meeting minutes. Second by Kutchke. Motion Carried 6 to 0.

4. Approval of the Agenda:

   Motion by Silver to approve the agenda. Second by Jenkins. Motion Carried 6 to 0.

5. Citizens wishing to address the Commission regarding Items <u>on</u> the Agenda (three-minute limit): None.

6. Citizens wishing to address the Commission regarding Items not on the agenda (three-minute limit): None.

7. Items for Discussion and Consideration.

   A. Decorative Lighting request from Higher Love at 824 E. Cloverland Dr.: Director Bergman presented the plan. Two representatives introduced themselves and explained the project. Davey asked for the lights to be on a timer to turn off when the business closes for the day. Bissell asked about the statue that was proposed.

      Motion by Kutchke to approve the request. Second by Spence. Motion Carried 6 to 0.

   B. 2025 Goals

      - Comprehensive Plan Update – Open House March 13th: Director Bergman talked about the comp plan draft presentation that was conducted by the consultants. The Housing Plan will need to be adopted in May. Doing consultation with Jen Acosta will be completed with City Staff. Over 400 survey responses were conducted for the first survey and over 200 for the second survey.

      - Wayfinding Map and Policy: No update.

      - Sidwalk and Pedestrian Network Policy: A work session will be scheduled this year.

      - Surplus Property Policy: Vacant lot map and analysis has been done and passed on to staff for review.

      - Training Opportunities for Planning Commission: The Iron Mountain training is available to all Planning Commissioners if interested.

8. Other Business: None.

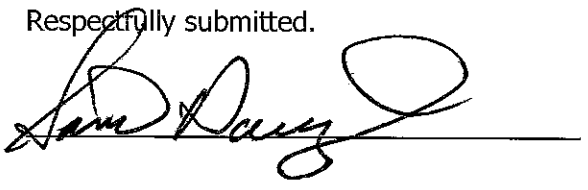
9. Next Meeting: Thursday, May 1, 2025, at 5:00 p.m. at the Ironwood Memorial Building.

10. Adjournment.

    Meeting adjourned by Davey.

    Adjournment at 5:16 p.m.

Respectfully submitted.



Sam Davey, Chair

Tim Erickson, Community Development Assistant

IRONWOOD
MICHIGAN | Find Your North

Proceedings of the Parks and Recreation Committee
Monday, March 3, 2025, 5:00 p.m.

A regular meeting of the Parks and Recreation Committee was held on Monday, March 3, 2025, at 5:00 P.M. at the City of Ironwood Memorial Building Women's Club Room, 213 S. Marquette Street, Ironwood, MI 49938.

1. Call to Order:

   Chair Davey called the meeting to order at 5:00 p.m.

2. Recording of the Roll:

MEMBER	PRESENT YES	NO	EXCUSED	NOT EXCUSED
Jake Ring	X			
Sam Davey	X			
Tom Kangas – Vice Chair	X			
Kim Corcoran, ex-officio, non-voting	X			
Jerry Nezworski	X			
Rich Jenkins	X			
Randy Kirchhoff	X			
Thomas Sams	X			
	8	**0**		

   Also present: Community Development Director Tom Bergman and Community Development Assistant Tim Erickson.

3. Approval of the Agenda:

   Motion by Sams to approve the Meeting Agenda. Second by Kirchhoff. Motion carried 8 to 0.

4. Approval of the February 3, 2025, Meeting Minutes:

   Motion by Sams to approve the Minutes. Second by Jenkins. Motion carried 8 to 0.

5. Citizens wishing to address the Committee on Items <u>on</u> the agenda (Three-Minute Limit): A concerned citizen was asking about the process for opening the City Streets to snowmobiles. He said that it's busy especially with the bicycle path.

6. Citizens wishing to address the Committee on items <u>not</u> on the agenda (Three-minute limit): None.

7. Items for discussion and consideration.

A. HREC Women's History Month Update: Patel talked about the plans for the month. They are making a recommendation to the City Commission to rename the Pocket Park and a new playground in Jessieville that isn't built yet.

B. 2025 Goals Update: Outdoor Skating Ring, Pickleball Court, Jessieville Playground, Hiawatha Improvements, Kuitanen Fountain Maintenance, Invasive Species Removal: The outdoor skating rink is proposed for the city goals. Determining the role of DPW staff will need to be determined. Norrie Park tennis courts could be resurfaced. Jessieville playground is considered underserved in the Comprehensive Plan. Bergman discussed the survey data from the general public who has indicated that they want the city to maintain parks versus adding new parks. Sams asked if someone could poll the neighborhood to see if they would like to have a new park in Jessieville. Director Bergman talked about the sidewalk project which was brought up by Sams. Bergman talked about ways that the playground could be funded. Dr. Hartz has provided a $30,000 donation for Hiawatha Park. Kuitanen lights need to be gone over with DPW.

C. Comprehensive Plan Update: March 13th at 5:30 p.m. will be the comprehensive plan presentation.

D. Trails Update (Motorized, Iron Belle, Miners Park etc.): The snowmobile trails are spotty. Gogebic Range Trail Authority is holding their annual banquet at the VFW in Wakefield. Iron Belle trail is being plowed throughout the City. Miners Park is grooming the trails. TV6 from Marquette interviewed some of the Miners Park members. Kangas talked about the trails in the Keweenaw.

E. Project Updates (Southern Beltline Acquisition, Curry Park, Norrie Park Renovation, Civic Center Ice Plant, Longyear Park Improvements): Southern Beltline Acquisition amount was approved by the City Commission. Curry Park renovation is finished. Norrie Park renovation is transitioning away from the DNR grant. Civic Center Ice Plant grant agreement is coming in June. Longyear Park Improvements bid spec is complete and will be out to bid soon.

8. Other Business: Sams talked about the Red Bull 400 at Copper Peak.

9. Next Meeting: Monday, April 7, 2025, at 5:00 p.m.

10. **Adjournment by Chair Davey.**

Respectfully submitted

Sam Davey, Chair

Tim Erickson, Community Development Assistant

City of Ironwood, Michigan
PROJECT: Water Treatment Plant Phase 1

SUMMARY OF PAYMENTS
DUE AND APPROVED BY OWNER
AT MEETING HELD
5/12/2025

The following invoices have been approved for payment:

Invoices to be Paid	*Amount Due*	*Budget Category*
CD Smith Construction Payment No. 19	$111,701.04	Construction
Total:	**$111,701.04**	**---**

Ayes: _____

Nayes: _____

Absent: _____

Motion: _____

By: _____

Kim S. Corcoran

Title: Mayor

USDA-RD | **ESTIMATE OF FUNDS NEEDED** | **FORM APPROVED**

Form RD 440-11
(Rev. 10-00)

FOR
30-Day Period Commencing
5/12/2025
Ironwood Water Plant Phase I

OMB NO. 0575-0015

ADMINISTRATIVE AND LEGAL INVOICES

Items		Amount of Funds
Construction:		
	$111,701.04	
Construction Total:		**$111,701.04**
Legal/Admin:		
Legal/Admin Total:		**$0.00**
Engineering Fees:		
Basic:	**$0.00**	
Inspection:	**$0.00**	
Additional Services:	**$0.00**	
Engineering Fees Total:		**$0.00**
Total:		**$0.00**
	TOTAL:	**$111,701.04**

Prepared by: City of Ironwood
Name of Borrower

By: _____
Mayor

Date: _____

Approved By: _____

Date: _____

Contractor's Application for Payment No. 19

Application Period:	3/1/2025 to 4/30/2025	Application Date:	4/30/2025
To (Owner):	CITY OF IRONWOOD	From (Contractor):	CD Smith Construction 125 Camelot Drive Fond Du Lac, WI 54935
Via (Engineer):	HDR		
Project:	WATER TREATMENT PLANT - PHASE 1	Contract:	
Owner's Contract No.:		Contractor's Project No.:	230034
Engineer's Project No.:	10301947		

Application For Payment Change Order Summary

Approved Change Orders		
Number	Additions	Deductions
1 thru 5	$182,011.71	
6		$8,891.37
7	$12,306.19	
8	$204,228.27	
9		$67,207.38
10 thru 11	$77,318.45	
12	$37,940.51	
13	$10,330.33	
TOTALS	$524,135.46	$76,098.75
NET CHANGE BY CHANGE ORDERS	**$448,036.71**	

1. **ORIGINAL CONTRACT PRICE**	$	**$9,554,000.00**
2. **Net change by Change Orders**	$	**$448,036.71**
3. **Current Contract Price (Line 1 ± 2)**	$	**$10,002,036.71**
4. **TOTAL COMPLETED AND STORED TO DATE (Column F total on Progress Estimates)**	$	**$9,859,348.77**
5. **RETAINAGE:**		
a. **2.5%** X $9,859,348.77 **Work Completed**	$	**$246,483.72**
b. X **Stored Material**	$	
c. **Total Retainage (Line 5.a + Line 5.b)**	$	**$246,483.72**
6. **AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5.c)**	$	**$9,612,865.05**
7. **LESS PREVIOUS PAYMENTS (Line 6 from prior Application)**	$	**$9,501,164.01**
8. **AMOUNT DUE THIS APPLICATION**	$	**$111,701.04**
9. **BALANCE TO FINISH, PLUS RETAINAGE (Column G total on Progress Estimates + Line 5.c above)**	$	**$389,171.66**

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:
(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;
(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrances); and
(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor Signature

By: *Samuel Platow* Date: **5/5/2025**

Payment of: $ 111,701.04
(Line 8 or other - attach explanation of the other amount)

is recommended by: _____ _____
(Engineer) (Date)

Payment of: $ _____
(Line 8 or other - attach explanation of the other amount)

is approved by: _____ _____
(Owner) (Date)

Approved by: _____ _____
Funding or Financing Entity (if applicable) (Date)

Progress Estimate - Lump Sum Work

Contractor's Application

For (Contract):	WATER TREATMENT PLANT - PHASE 1	Application Number:	19
Application Period:	3/1/2025 to 4/30/2025	Application Date:	4/30/2025

			Work Completed		E	F		G
A		B	C	D	Materials Presently	Total Completed	%	Balance to Finish
Div #	Description	Scheduled Value ($)	From Previous Application (C+D)	This Period	Stored (not in C or D)	and Stored to Date (C + D + E)	(F / B)	(B - F)
	GENERAL CONSTRUCTION							
01	BONDS	$ 60,000.00	60000			60000	100.0%	$ -
01	SUPERVISION	$ 245,000.00	245000			245000	100.0%	$ -
01	MANAGEMENT	$ 165,000.00	165000			165000	100.0%	$ -
01	TEMPORARY FACILITIES	$ 130,000.00	130000			130000	100.0%	$ -
01	EQUIPMENT (CONTRACTORS MACHINERY)	$ 248,667.00	248667			248667	100.0%	$ -
01	SUBSISTANCE	$ 160,000.00	160000			160000	100.0%	$ -
01	PERMITS	$ 16,000.00	16000			16000	100.0%	$ -
01	LEAKAGE TESTING	$ 6,000.00	6000			6000	100.0%	$ -
01	DISINFECTION	$ 5,000.00	5000			5000	100.0%	$ -
01	SAFETY AND OSHA REQUIRMENTS	$ 48,000.00	48000			48000	100.0%	$ -
01	SNOW REMOVAL	$ 20,000.00	20000			20000	100.0%	$ -
01	GENERAL CLEANUP AND DUMPSTERS	$ 65,000.00	65000			65000	100.0%	$ -
01	FINAL CLEANING	$ 10,000.00	10000			10000	100.0%	$ -
03	CONCRETE REINFORCING MATERIAL	$ 230,000.00	230000			230000	100.0%	$ -
03	CONCRETE FORMWORK MATERIAL	$ 85,000.00	85000			85000	100.0%	$ -
03	PUMP CLEARWELL CONCRETE	$ 315,000.00	315000			315000	100.0%	$ -
03	FILTER ROOM CONCRETE	$ 265,000.00	265000			265000	100.0%	$ -
03	CHEMICAL ROOM AREA CONCRETE	$ 212,000.00	212000			212000	100.0%	$ -
03	WEST ELEVATION CONCRETE	$ 100,000.00	100000			100000	100.0%	$ -
03	EAST ELEVATION CONCRETE	$ 100,000.00	100000			100000	100.0%	$ -
03	NORTH ELEVATION CONCRETE	$ 80,000.00	80000			80000	100.0%	$ -
04	MASONRY	$ 785,000.00	785000			785000	100.0%	$ -
06	ROUGH CARPENTRY MATERIAL	$ 45,000.00	45000			45000	100.0%	$ -
06	ROUGH CARPENTRY LABOR	$ 35,000.00	35000			35000	100.0%	$ -
07	FLUID APPLIED WATERPROOFING	$ 63,000.00	63000			63000	100.0%	$ -
03	PRECAST PLANK	$ 175,000.00	175000			175000	100.0%	$ -
06	SIP PANNELS	$ 120,000.00	120000			120000	100.0%	$ -
06	SIP AND TRUSS INSTALL	$ 45,000.00	45000			45000	100.0%	$ -
05	MISC METALS MATERIALS (RAILING, GRATING,ETC)	$ 125,000.00	125000			125000	100.0%	$ -
05	MISC METALS MATERIALS INSTALL	$ 65,000.00	65000			65000	100.0%	$ -
06	TRUSS PACKAGE	$ 27,000.00	27000			27000	100.0%	$ -
07	ROOFING	$ 95,000.00	95000			95000	100.0%	$ -
07	FLASHING AND SHEETMETAL	$ 40,000.00	40000			40000	100.0%	$ -
09	STEEL STUDS AND DRYWALL	$ 45,000.00	45000			45000	100.0%	$ -
07	WALL PANEL SYSTEM	$ 65,000.00	65000			65000	100.0%	$ -
07	CAULKING	$ 38,250.00	38250			38250	100.0%	$ -
09	PAINTING	$ 133,000.00	133000			133000	100.0%	$ -

Progress Estimate - Lump Sum Work

Contractor's Application

For (Contract):	WATER TREATMENT PLANT - PHASE 1	Application Number:	19
Application Period:	3/1/2025 to 4/30/2025	Application Date:	4/30/2025

			Work Completed		E	F		G
A		B	C	D	Materials Presently	Total Completed	%	Balance to Finish
Div #	Description	Scheduled Value ($)	From Previous Application (C+D)	This Period	Stored (not in C or D)	and Stored to Date (C + D + E)	(F / B)	(B - F)
08	ACCESS DOORS	$ 6,759.00	6759			6759	100.0%	$ -
08	DOOR AND FRAMES MATERIAL	$ 102,512.00	102512			102512	100.0%	$ -
08	DOORS AND FRAMES LABOR	$ 17,000.00	17000			17000	100.0%	$ -
08	WINDOWS & GLAZING	$ 68,788.00	68788			68788	100.0%	$ -
09	CERAMIC TILE	$ 3,500.00	3500			3500	100.0%	$ -
09	ACOUSTICAL CEILINGS	$ 4,600.00	4600			4600	100.0%	$ -
09	EPOXY FLOORING	$ 22,000.00	22000			22000	100.0%	$ -
10	TOILET AND BATH ACCESSORIES	$ 5,600.00	5600			5600	100.0%	$ -
10	EXTERIOR SIGNAGE	$ 12,200.00	12200			12200	100.0%	$ -
12	METAL LAB CASEWORK	$ 16,584.00	16584			16584	100.0%	$ -
31	DEWATERING	$ 10,000.00	10000			10000	100.0%	$ -
41	HOIST AND CRANES	$ 38,330.00	38330			38330	100.0%	$ -
	EARTHWORK (Snow Country/CDS)	$ -						
31	GRADING	$ 96,000.00	96000			96000	100.0%	$ -
31	EARTHWORK	$ 370,000.00	370000			370000	100.0%	$ -
31	EXCAVATION, TRENCHING AND BACKFILL	$ 235,000.00	235000			235000	100.0%	$ -
31	FLOWABLE FILL	$ 70,600.00	70600			70600	100.0%	$ -
31	EROSION CONTROL	$ 27,000.00	27000			27000	100.0%	$ -
32	CABC	$ 85,000.00	80750			80750	95.0%	$ 4,250.00
32	RESTORATION	$ 43,000.00	43000			43000	100.0%	$ -
	SITE UTILITIES (Snow Contry)	$ -						
33	TESTING	$ 5,000.00	5000			5000	100.0%	$ -
33	WATERMAIN DI 12" and Smaller	$ 50,400.00	49896			49896	99.0%	$ 504.00
33	WATERMAIN DI 14" and Larger	$ 369,600.00	369600			369600	100.0%	$ -
33	SANITARY SEWER	$ 24,000.00	24000			24000	100.0%	$ -
33	CULVERTS	$ 14,000.00	14000			14000	100.0%	$ -
	MECHANICAL (August Winters)							
40	MOBILIZATION	$ 45,000.00	45000			45000	100.0%	$ -
08	LOUVERS AND OPENINGS	$ 7,000.00	7000			7000	100.0%	$ -
22	UG PLUMBING	$ 59,000.00	59000			59000	100.0%	$ -
22	AG PLUMBING	$ 125,000.00	125000			125000	100.0%	$ -
22	FIXTURES	$ 62,000.00	62000			62000	100.0%	$ -
22	PLUMBING INSULATION	$ 16,000.00	16000			16000	100.0%	$ -
23	DUCT WORK	$ 105,000.00	105000			105000	100.0%	$ -
23	HVAC PIPING	$ 20,000.00	20000			20000	100.0%	$ -
23	HVAC EQUIPMENT	$ 165,000.00	165000			165000	100.0%	$ -
23	HVAC INSULATION	$ 12,000.00	12000			12000	100.0%	$ -
23	HVAC CONTROLS	$ 40,000.00	40000			40000	100.0%	$ -

Progress Estimate - Lump Sum Work

Contractor's Application

For (Contract):	WATER TREATMENT PLANT - PHASE 1	Application Number:	19
Application Period:	3/1/2025 to 4/30/2025	Application Date:	4/30/2025

			Work Completed		E	F		G
A		B	C	D	Materials Presently	Total Completed	%	Balance to Finish
Div #	Description	Scheduled Value ($)	From Previous Application (C+D)	This Period	Stored (not in C or D)	and Stored to Date (C + D + E)	(F / B)	(B - F)
23	HVAC TAB	$ 3,000.00	3000			3000	100.0%	$ -
40	PROCESS PIPING	$ 394,000.00	394000			394000	100.0%	$ -
40	PROCESS VALVES	$ 198,000.00	198000			198000	100.0%	$ -
43	VERTRICAL TURBINE PUMPS	$ 306,000.00	306000			306000	100.0%	$ -
46	CHEMICAL FEED EQUIPMENT	$ 88,000.00	88000			88000	100.0%	$ -
21	FIRE SUPPRESION	$ 14,610.00	14610			14610	100.0%	$ -
	ELECTRICAL (ECON)							
26	TEMPORAY ELECTRICAL	$ 30,000.00	30000			30000	100.0%	$ -
26	SITE ELECTRICAL MATERIAL	$ 245,000.00	245000			245000	100.0%	$ -
26	SITE ELECTRICAL LABOR	$ 146,000.00	146000			146000	100.0%	$ -
26	WTP ELECTRICAL MATERIAL	$ 324,000.00	324000			324000	100.0%	$ -
26	WTP ELECTRICAL LABOR	$ 294,790.00	294790			294790	100.0%	$ -
26	LIGHT FIXTURES	$ 30,385.00	30385			30385	100.0%	$ -
26	GEAR	$ 15,500.00	15500			15500	100.0%	$ -
40	SYSTEM INTEGRATOR - VFD'S	$ 126,730.00	126730			126730	100.0%	$ -
40	SYSTEM INTEGRATOR - ENGINEERING AND SUBMITTALS	$ 50,600.00	50600			50600	100.0%	$ -
40	SYSTEM INTEGRATOR - WTP CONTROL PANEL	$ 48,000.00	48000			48000	100.0%	$ -
40	SYSTEM INTEGRATOR - INSTRUMENTS	$ 32,600.00	32600			32600	100.0%	$ -
40	SYSTEM INTEGRATOR - CT'S, XMRF, MISC PANELS	$ 114,400.00	114400			114400	100.0%	$ -
40	SYSTEM INTEGRATOR - HMI SCADA NETWORK	$ 52,000.00	52000			52000	100.0%	$ -
40	SYSTEM INTEGRATOR - SITE SUPPORT	$ 76,615.00	76615			76615	100.0%	$ -
40	SYSTEM INTEGRATOR - COMMISIONING AND STARTUP	$ 69,055.00	69055			69055	100.0%	$ -
26	MANHOLES AND COVERS	$ 15,000.00	15000			15000	100.0%	$ -
26	FIRE ALARM	$ 13,000.00	13000			13000	100.0%	$ -
26	ATS	$ 39,325.00	39325			39325	100.0%	$ -
26	AS BUILD DRAWING	$ 1,500.00	1500			1500	100.0%	$ -
26	PUNCH LIST	$ 2,500.00	2500			2500	100.0%	$ -
26	ASCCEPTANCE TESTING	$ 3,000.00	3000			3000	100.0%	$ -
	CHANGE ORDERS							
31	EAST ROAD IMPROVMENTS	$ 70,852.65	70852.65			70852.65	100.0%	$ -
32	Misc Detail Changes	$ 11,766.56	11766.56			11766.56	100.0%	$ -
33	West End Piping Changes	$ 20,366.69	20366.69			20366.69	100.0%	$ -
34	Electrical and Door Changes	$ 54,253.99	54253.99			54253.99	100.0%	$ -
35	Flow Meter Flange Size and Pole top Feeder	$ 24,771.82	24771.82			24771.82	100.0%	$ -
07	Shingle Credit	$ (3,507.00)	-3507			-3507	100.0%	$ -
04	WCD- 4 East Exterior Wall	$ (23,991.52)	-23991.52			-23991.52	100.0%	$ -
09	Temporary Steel Stud Wall Elimination	$ (10,092.40)	-10092.4			-10092.4	100.0%	$ -
31	Site Water Piping Changes	$ 28,699.55	28699.55			28699.55	100.0%	$ -

Progress Estimate - Lump Sum Work — Contractor's Application

For (Contract):	WATER TREATMENT PLANT - PHASE 1	Application Number:	19
Application Period:	3/1/2025 to 4/30/2025	Application Date:	4/30/2025

			Work Completed		E	F		G
A		B	C	D	Materials Presently	Total Completed	%	Balance to Finish
Div #	Description	Scheduled Value ($)	From Previous Application (C+D)	This Period	Stored (not in C or D)	and Stored to Date (C + D + E)	(F / B)	(B - F)
40	SS Hardware - RFI 63	$ 19,814.38	19814.38			19814.38	100.0%	$ -
31	Gravel Surface Scope Elimination	$ (14,071.00)	-14071			-14071	100.0%	$ -
33	Septic Pump Control Panel	$ 1,814.95	1814.95			1814.95	100.0%	$ -
23	Relocate CU-1 and Provide Stand	$ 4,747.86	4747.86			4747.86	100.0%	$ -
32	Fence Modifications	$ 5,228.27						$ 5,228.27
32	Fencing and Gates	$ 199,000.00		80000		80000	40.2%	$ 119,000.00
09	Corridor Modifications	$ 2,757.00	2757			2757	100.0%	$ -
26	Conduit Type in Corrosive Areas	$ (4,075.00)	-4075			-4075	100.0%	$ -
31	Site Restoration	$ (55,767.22)	-55767.22			-55767.22	100.0%	$ -
26	CU-1 Relocation and Power Changes	$ 1,574.84	1574.84			1574.84	100.0%	$ -
40	Level Transmitters	$ (11,697.00)	-11697			-11697	100.0%	$ -
40	Update Radio Path Study	$ 8,611.26	8611.26			8611.26	100.0%	$ -
40	Flow Meters	$ 56,391.03	56391.03			56391.03	100.0%	$ -
31	Site Piping Changes	$ 12,316.16	12316.16			12316.16	100.0%	$ -
31	16" Main Water Line Capping Modifications	$ 2,686.01						$ 2,686.01
32	Fence Gate Gravel Approach	$ 689.33						$ 689.33
40	Sample Line	$ 12,467.84		12467.84		12467.84	100.0%	$ -
40	Phosphate Pump Modifications	$ 16,097.33		16097.33		16097.33	100.0%	$ -
40	Sodium Hypochlorite Pump Modifications	$ 6,000.00		6000		6000	100.0%	$ -
40	Sodium Hypochlorite Tank Stand	$ 10,330.33						$ 10,330.33
		$ -						
	Totals	**$10,002,036.71**	**$9,744,783.60**	**$114,565.17**		**$9,859,348.77**	**98.57%**	**$142,687.94**

Contractor's Application for Payment No. 5

		Application Period:	4/1/2025 to 4/30/2025	Application Date:	4/30/2025
To (Owner):	CITY OF IRONWOOD	From (Contractor):	CD Smith Construction 125 Camelot Drive Fond Du Lac, WI 54935	Via (Engineer):	HDR
Project:	WATER TREATMENT PLANT - PHASE 2	Contract:			
Owner's Contract No.:		Contractor's Project No.:	240143	Engineer's Project No.:	10392842

Application For Payment Change Order Summary

Approved Change Orders		
Number	Additions	Deductions
1		$250,800.00
2	$51,800.00	
3	$76,303.25	
4		$15,318.00
5	$43,810.26	
TOTALS	$171,913.51	$266,118.00
NET CHANGE BY CHANGE ORDERS	**-$94,204.49**	

1. ORIGINAL CONTRACT PRICE	**$**	**$10,084,625.00**
2. Net change by Change Orders	**$**	**-$94,204.49**
3. Current Contract Price (Line 1 ± 2)	**$**	**$9,990,420.51**
4. TOTAL COMPLETED AND STORED TO DATE (Column F total on Progress Estimates)	**$**	**$1,462,796.35**
5. RETAINAGE:		
a. 5% X $1,462,796.35 **Work Completed**	**$**	**$73,139.82**
b. 5% X **Stored Material**	**$**	**$0.00**
c. Total Retainage (Line 5.a + Line 5.b)	**$**	**$73,139.82**
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5.c)	**$**	**$1,389,656.53**
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application)	**$**	**$759,087.81**
8. AMOUNT DUE THIS APPLICATION	**$**	**$630,568.72**
9. BALANCE TO FINISH, PLUS RETAINAGE (Column G total on Progress Estimates + Line 5.c above)	**$**	**$8,600,763.98**

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:
(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;
(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrances); and
(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents

Contractor Signature

By: *Samuel Platow*	Date: 5/2/2025

Payment of: $ 630,568.72
(Line 8 or other - attach explanation of the other amount)

is recommended by: _____ _____
(Engineer) (Date)

Payment of: $ _____
(Line 8 or other - attach explanation of the other amount)

is approved by: _____ _____
(Owner) (Date)

Approved by: _____ _____
Funding or Financing Entity (if applicable) (Date)

Spec. No.	Description	Schedule of Values	Previous Percent Complete	Previously Complete	Currently Payment Period	Current Payment Due	Percent Complete	Total Complete	Administrative SOV	Administrative Previous	Administrative %	Administrative Value	Sitework SOV	Sitework Previous	Sitework %	Sitework Value	Garage Addition SOV	Garage Addition Previous	Garage Addition %	Garage Addition Value	Filter Room SOV	Filter Room Previous	Filter Room %	Filter Room Value	Wet Well SOV	Wet Well Previous	Wet Well %	Wet Well Value
C.D. Smith Construction																												
01 00 00	Supervision	$ 300,300.00		$ 48,048.00	10%	$ 30,030.00	26%	$ 78,078.00	$ 300,300.00		26%	$ 78,078				$ -				$ -				$ -				$ -
01 00 00	Management	$ 170,000.00		$ 30,600.00	6%	$ 10,200.00	24%	$ 40,800.00	$ 170,000.00		24%	$ 40,800				$ -				$ -				$ -				$ -
01 00 00	Subsistance	$ 160,000.00		$ 25,600.00	10%	$ 16,000.00	26%	$ 41,600.00	$ 160,000.00		26%	$ 41,600				$ -				$ -				$ -				$ -
01 00 00	Temporary Facilities	$ 140,000.00		$ 22,400.00	10%	$ 14,000.00	26%	$ 36,400.00	$ 140,000.00		26%	$ 36,400				$ -				$ -				$ -				$ -
2 00 00	Permits	$ 8,000.00		$ 8,000.00	0%	$ -	100%	$ 8,000.00	$ 8,000.00		100%	$ 8,000				$ -				$ -				$ -				$ -
3 00 00	Bonds and Insurance	$ 45,930.00		$ 45,930.00	0%	$ -	100%	$ 45,930.00	$ 45,930.00		100%	$ 45,930				$ -				$ -				$ -				$ -
4 00 00	Safety and OSHA Requirments	$ 91,000.00		$ 14,560.00	10%	$ 9,100.00	26%	$ 23,660.00	$ 91,000.00		26%	$ 23,660				$ -				$ -				$ -				$ -
5 00 00	Equipment	$ 280,000.00		$ 28,000.00	15%	$ 42,000.00	25%	$ 70,000.00				$ -				$ -	$ 60,000.00			$ -	$ 140,000.00		50%	$ 70,000	$ 80,000.00			$ -
6 00 00	Snow Removal	$ 30,000.00		$ 18,000.00	10%	$ 3,000.00	70%	$ 21,000.00				$ -	$ 30,000.00		70%	$ 21,000				$ -				$ -				$ -
7 00 00	Final Clean	$ 10,000.00			0%	$ -	0%	$ -				$ -	$ -			$ -	$ 5,000.00			$ -	$ 5,000.00			$ -				$ -
8 00 00	General Clean up and Dumpsters	$ 100,000.00		$ 16,000.00	10%	$ 10,000.00	26%	$ 26,000.00	$ 100,000.00		26%	$ 26,000				$ -				$ -				$ -				$ -
02 41 00	Demolition	$ 14,026.00			0%	$ -	0%	$ -				$ -				$ -				$ -				$ -	$ 14,026.00			$ -
03 21 00	Reinforcing Material	$ 178,751.00		$ 68,751.00	22%	$ 40,000.00	61%	$ 108,751.00				$ -				$ -	$ 40,000.00		100%	$ 40,000	$ 68,751.00		100%	$ 68,751	$ 70,000.00			$ -
03 21 00	Reinforcing Labor	$ 280,000.00		$ 70,000.00	15%	$ 42,000.00	40%	$ 112,000.00				$ -				$ -	$ 60,000.00			$ -	$ 140,000.00		80%	$ 112,000	$ 80,000.00			$ -
03 31 30	Concrete Accessories	$ 60,000.00			18%	$ 11,000.00	18%	$ 11,000.00				$ -				$ -	$ 20,000.00			$ -	$ 22,000.00		50%	$ 11,000	$ 18,000.00			$ -
03 31 30	Concrete Materials	$ 425,000.00			20%	$ 85,000.00	20%	$ 85,000.00				$ -				$ -	$ 130,000.00			$ -	$ 170,000.00		50%	$ 85,000	$ 125,000.00			$ -
03 31 30	Formwork Materials	$ 80,000.00	$ 15,000.00	$ 15,000.00	11%	$ 9,000.00	30%	$ 24,000.00				$ -				$ -	$ 30,000.00			$ -	$ 30,000.00		80%	$ 24,000	$ 20,000.00			$ -
03 35 00	Concrete Labor	$ 702,194.00	$ 61,518.80	$ 61,518.80	13%	$ 92,278.20	22%	$ 153,797.00				$ -				$ -	$ 190,000.00			$ -	$ 307,594.00		50%	$ 153,797	$ 205,000.00			$ -
03 41 33	Precast Concrete Plank	$ 29,194.00			0%	$ -	0%	$ -				$ -				$ -	$ 29,194.00			$ -				$ -				$ -
04 22 00	Masonry Material	$ 200,000.00			70%	$ 140,000.00	70%	$ 140,000.00				$ -				$ -	$ 200,000.00		70%	$ 140,000				$ -				$ -
04 22 00	Missonry Labor	$ 140,000.00			0%	$ -	0%	$ -				$ -				$ -	$ 140,000.00			$ -				$ -				$ -
05 50 00	Metal Install	$ 150,000.00			0%	$ -	0%	$ -				$ -				$ -	$ 50,000.00			$ -	$ 50,000.00			$ -	$ 10,000.00			$ -
05 50 00	Metal Fabrications	$ 148,842.00		$ 74,421.00	50%	$ -	50%	$ 74,421.00				$ -				$ -				$ -	$ 148,842.00		50%	$ 74,421				$ -
06 10 00	Rough Carpentry Material	$ 15,000.00	$ 1,000.00		0%	$ -	7%	$ 1,000.00				$ -				$ -	$ 5,000.00			$ -	$ 5,000.00		20%	$ 1,000	$ 5,000.00			$ -
06 10 00	Rough Carpentry Labor	$ 60,000.00	$ 2,000.00		0%	$ -	3%	$ 2,000.00				$ -				$ -	$ 40,000.00			$ -	$ 10,000.00		20%	$ 2,000	$ 10,000.00			$ -
06 10 00	SIP and Truss Install	$ 40,000.00			0%	$ -	0%	$ -				$ -				$ -	$ 40,000.00			$ -				$ -				$ -
06 10 00	SIP Panels	$ 27,533.00			0%	$ -	0%	$ -				$ -				$ -	$ 27,533.00			$ -				$ -				$ -
06 17 53	Trusses	$ 12,296.00			0%	$ -	0%	$ -				$ -				$ -	$ 12,296.00			$ -				$ -				$ -
07 27 43	Self-Adhering Air/Vapor Barrier	$ 15,000.00			0%	$ -	0%	$ -				$ -				$ -	$ 15,000.00			$ -				$ -				$ -
07 31 13	Roofing	$ 60,000.00	$ 18,000.00		0%	$ -	30%	$ 18,000.00				$ -				$ -	$ 60,000.00		30%	$ 18,000				$ -				$ -
07 62 00	Flashing and Sheet Metal	$ 33,821.00			0%	$ -	0%	$ -				$ -				$ -	$ 33,821.00			$ -				$ -				$ -
07 92 00	Joint Sealants	$ 18,820.00			0%	$ -	0%	$ -				$ -				$ -	$ 13,820.00			$ -	$ 5,000.00			$ -				$ -
08 15 00	Doors and Frames	$ 30,223.00			100%	$ 30,223.00	100%	$ 30,223.00				$ -				$ -	$ 10,000.00		100%	$ 10,000	$ 20,223.00		100%	$ 20,223				$ -
08 31 00	Metal Fabrications - Floor Access Hatches	$ 8,242.00			0%	$ -	0%	$ -				$ -				$ -				$ -				$ -	$ 8,242.00			$ -
08 33 22	Overhead Coiling Door	$ 32,960.00			0%	$ -	0%	$ -				$ -				$ -	$ 32,960.00			$ -				$ -				$ -
08 51 13	Windows	$ 20,000.00			0%	$ -	0%	$ -				$ -				$ -	$ 20,000.00			$ -				$ -				$ -
09 96 00	Painting	$ 113,850.00			0%	$ -	0%	$ -				$ -				$ -	$ 5,000.00			$ -	$ 108,850.00			$ -				$ -
10 44 33	Fire Extinguishers	$ 1,200.00			0%	$ -	0%	$ -				$ -				$ -	$ 1,200.00			$ -				$ -				$ -
32 31 13	Chain Link Fences and Gate	$ 148,900.00	$ 148,900.00		0%	$ -	100%	$ 148,900.00					$ 148,900.00		100%	$ 148,900												
August Winters																												
01 00 00	Mobilization	$ 50,000.00	$ 50,000.00		0%	$ -	100%	$ 50,000.00	$ 50,000.00		100%	$ 50,000				$ -				$ -				$ -				$ -
01 00 00	General Conditions	$ 145,000.00	$ 29,000.00		0%	$ -	20%	$ 29,000.00	$ 145,000.00		20%	$ 29,000				$ -				$ -				$ -				$ -
01 00 00	Office Support	$ 85,000.00	$ 17,000.00		0%	$ -	20%	$ 17,000.00	$ 85,000.00		20%	$ 17,000				$ -				$ -				$ -				$ -
01 00 00	Supervision	$ 127,000.00			0%	$ -	0%	$ -	$ 127,000.00			$ -				$ -				$ -				$ -				$ -
22 00 00	Plumbing Material	$ 35,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 35,000.00			$ -				$ -
22 07 19	Insulation	$ 10,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 10,000.00			$ -				$ -
22 11 20	Plumbing Fixture Setting	$ 10,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 10,000.00			$ -				$ -
22 11 19	Plumbing Domestic Water	$ 19,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 19,000.00			$ -				$ -
22 13 16	Plumbing Waste and Vent	$ 15,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 15,000.00			$ -				$ -
23 05 00	HVAC Material	$ 28,000.00			0%	$ -	0%	$ -				$ -				$ -	$ 20,000.00			$ -	$ 8,000.00			$ -				$ -
23 05 00	HVAC Labor	$ 43,000.00			0%	$ -	0%	$ -				$ -				$ -	$ 38,000.00			$ -	$ 5,000.00			$ -				$ -
23 05 00	HVAC Equipment	$ 35,000.00			0%	$ -	0%	$ -				$ -				$ -	$ 30,000.00			$ -	$ 5,000.00			$ -				$ -
23 05 48.13	HVAC Controls	$ 34,000.00			0%	$ -	0%	$ -				$ -				$ -	$ 30,000.00			$ -	$ 4,000.00			$ -				$ -
23 05 93	HVAC Balancing	$ 5,500.00			0%	$ -	0%	$ -				$ -				$ -	$ 5,000.00			$ -	$ 500.00			$ -				$ -
23 11 23	Plumbing Gas Material	$ 19,000.00			0%	$ -	0%	$ -				$ -				$ -	$ 14,000.00			$ -	$ 5,000.00			$ -				$ -
23 11 23	UG Process Piping (Labor)	$ 60,000.00			0%	$ -	0%	$ -				$ -				$ -	$ 50,000.00			$ -	$ 10,000.00			$ -				$ -
23 07 13	HVAC Insulation	$ 9,500.00			0%	$ -	0%	$ -				$ -				$ -	$ 8,000.00			$ -	$ 1,500.00			$ -				$ -
40 00 00	Process Material	$ 1,100,000.00	$ 220,000.00		0%	$ 0.00	20%	$ 220,000.00				$ -				$ -				$ -	$ 1,100,000.00		21%	$ 220,000	$ 80,000.00			$ -
40 05 19	Process Ductile Iron Piping (Labor)	$ 591,000.00	$ 29,550.00		0%	$ 0.00	5%	$ 29,550.00				$ -				$ -				$ -	$ 571,000.00		5%	$ 29,550	$ 20,000.00			$ -
40 05 51	Process Valves	$ 775,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 715,000.00			$ -	$ 10,000.00			$ -
43 24 27	Vertical Turbine Pumps (Equipment)	$ 87,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 87,000.00			$ -				$ -
43 24 27	Vertical Turbine Pumps (Labor)	$ 55,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 55,000.00			$ -				$ -
46 33 11	Chemical Feed System (Equipment)	$ 95,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 95,000.00			$ -				$ -
46 33 11	Chemical Feed System (Labor)	$ 30,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 30,000.00			$ -				$ -
46 33 11	Chemical Feed Piping (Labor)	$ 35,000.00	$ 3,500.00		0%	$ -	10%	$ 3,500.00				$ -				$ -				$ -	$ 35,000.00		10%	$ 3,500				$ -
46 33 11	Gravity Filter (Equipment)	$ 580,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 580,000.00		0%	$ -				$ -
46 61 10	Gravity Filter (Labor)	$ 90,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 90,000.00			$ -				$ -
46 33 11	Fluoride Chemical Feed (Alt. 2A) (Equipment)	$ 30,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 30,000.00			$ -				$ -
46 33 11	Fluoride Chemical Feed (Alt. 2B) (Labor)	$ 15,000.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 15,000.00			$ -				$ -
Snow Country																												
31 22 00	Grading	$ 6,382.50			0%	$ -	0%	$ -				$ -	$ 6,382.50			$ -				$ -				$ -				$ -
31 23 00	Earthwork	$ 126,794.81			0%	$ -	0%	$ -				$ -	$ 126,794.81			$ -				$ -				$ -				$ -
31 23 10	Excavation, Trenching, and Backfill	$ 82,692.86			0%	$ -	0%	$ -				$ -	$ 82,692.86			$ -				$ -				$ -				$ -
31 25 00	Soil Erosion and Sedimentation Control	$ 4,979.50			0%	$ -	0%	$ -				$ -	$ 4,979.50			$ -				$ -				$ -				$ -
31 25 01	Temporary Erosion Control	$ 3,651.25			0%	$ -	0%	$ -				$ -	$ 3,651.25			$ -				$ -				$ -				$ -
32 92 90	Restoration	$ 20,757.00			0%	$ -	0%	$ -				$ -	$ 20,757.00			$ -				$ -				$ -				$ -
33 01 10	Disinfection of Water Distribution System	$ 1,000.00			0%	$ -	0%	$ -				$ -	$ 1,000.00			$ -				$ -				$ -				$ -
33 08 10	Testing of Water Distribution System	$ 1,000.00			0%	$ -	0%	$ -				$ -	$ 1,000.00			$ -				$ -				$ -				$ -
33 10 00	Water Distribution System DI 350-12" and smaller	$ 25,302.00			0%	$ -	0%	$ -				$ -	$ 25,302.00			$ -				$ -				$ -				$ -
33 10 00	Water Distribution System DI 350-14" and Larger	$ 236,784.98			0%	$ -	0%	$ -				$ -	$ 236,784.98			$ -				$ -				$ -				$ -
33 31 00	Sanitary Sewer	$ 15,813.00			0%	$ -	0%	$ -				$ -	$ 15,813.00			$ -				$ -				$ -				$ -
Pieper Electric																												
01 11 00	Mobilization	$ 50,000.00			0%	$ -	0%	$ -	$ 50,000.00			$ -																
01 11 00	Administration	$ 50,000.00			0%	$ -	0%	$ -	$ 50,000.00			$ -	$ -															
01 33 00	Submittals/O&Ms	$ 13,500.00			0%	$ -	0%	$ -	$ 13,500.00				$ -			$ -												
26 05 19	Wire & Cable Labor	$ 66,325.00	$ 10,000.00		0%	$ -	15%	$ 10,000.00					$ 10,000.00		100%	$ 10,000	$ 15,000.00				$ 41,325.00							$ -
26 05 19	Wire & Cable Material	$ 40,000.00	$ 5,000.00		0%	$ -	13%	$ 5,000.00					$ 5,000.00		100%	$ 5,000	$ 10,000.00				$ 25,000.00							
26 05 26	Grounding & Bonding Labor	$ 25,000.00			0%	$ -	0%	$ -					$ -								$ 25,000.00							
26 05 26	Grounding & Bonding Material	$ 12,000.00			0%	$ -	0%	$ -					$ -								$ 12,000.00							
26 05 34	Conduit Labor	$ 76,000.00	$ 5,000.00		0%	$ -	7%	$ 5,000.00					$ 5,000.00		100%	$ 5,000	$ 10,000.00				$ 61,000.00							
26 05 34	Conduit Material	$ 36,000.00	$ 2,000.00		0%	$ -	6%	$ 2,000.00					$ 2,000.00		100%	$ 2,000	$ 9,000.00				$ 25,000.00							
26 24 15	Electrical Gear Labor	$ 40,000.00			0%	$ -	0%	$ -				$ -	$ -							$ -	$ 40,000.00			$ -				$ -
26 24 15	Electrical Gear Material	$ 99,360.00			0%	$ -	0%	$ -				$ -	$ -							$ -	$ 99,360.00			$ -				$ -
26 50 00	Lighting	$ 10,500.00			0%	$ -	0%	$ -				$ -	$ -			$ -	$ 5,500.00			$ -	$ 5,000.00			$ -				$ -
26 90 00	Process Instrumentation & Control	$ 465,000.00			0%	$ -	0%	$ -				$ -	$ -			$ -				$ -	$ 465,000.00			$ -				$ -
28 13 00	Security cabling Labor	$ 30,000.00			0%	$ -	0%	$ -					$ 10,000.00			$ -					$ 20,000.00							
28 13 00	Security cabling Material	$ 38,700.00			0%	$ -	0%	$ -					$ 10,000.00			$ -					$ 28,700.00							$ -
26 00 00	Fluoride Chemical Feed Electrical (Alt. 2B)	$ 2,700.00			0%	$ -	0%	$ -													$ 2,700.00							$ -
Change Orders																												
1.1	Fencing and Gates	$ (199,000.00)		$ (199,000.00)	0%	$ -	100%	$ (199,000.00)				$ -	$ (199,000.00)		100%	$ (199,000)				$ -				$ -				$ -
1.2	Additional Chemical Pumps	$ (51,800.00)		$ (51,800.00)	0%	$ -	100%	$ (51,800.00)				$ -				$ -				$ -	$ (51,800.00)		100%	$ (51,800)				$ -
2	Additional Chemical Pumps	$ 51,800.00		$ 51,800.00	0%	$ -	100%	$ 51,800.00				$ -				$ -				$ -	$ 51,800.00		100%	$ 51,800				$ -
3.1	Site Restoration	$ 74,803.25			0%	$ -	0%	$ -				$ -	$ 74,803.25			$ -				$ -				$ -				$ -
3.2	ACT Ceiling Install	$ 1,500.00			0%	$ -	0%	$ -				$ -				$ -				$ -	$ 1,500.00			$ -				$ -
4.1	Monitoring Wells	$ (12,000.00)		$ (12,000.00)	0%	$ -	100%	$ (12,000.00)				$ -	$ (12,000.00)		100%	$ (12,000)				$ -				$ -				$ -
4.2	Door Credit	$ (3,318.00)		$ (3,318.00)	0%	$ -	100%	$ (3,318.00)				$ -				$ -				$ -	$ (3,318.00)		100%	$ (3,318)				$ -
5.1	Corridor Handrail	$ 7,000.00			0%	$ -	0%	$ -								$ -				$ -	$ 7,000.00			$ -				
5.2	Filter Elevation Changes	$ 2,200.85			0%	$ -	0%	$ -								$ -				$ -	$ 2,200.85			$ -				
5.3	Electric Strikes	$ 5,504.35			100%	$ 5,504.35	100%	$ 5,504.35								$ -				$ -	$ 5,504.35		100%	$ 5,504				
5.4	Filter Backwash Bypass Line Changes	$ 29,099.06			0%	$ -	0%	$ -								$ -				$ -	$ 29,099.06			$ -				
																$ -												
SOV Total		$ 9,990,421			5%	$ 663,757	18%	$ 1,462,796	$ 905,430			$ 235,990	$ 609,861			$ (19,100)	$ 1,515,724			$ 208,000	$ 5,603,837			$ 877,428	$ 725,268			$ -
Allocation Difference		$ -																										
ORIGINAL CONTRACT AMOUNT:		$ 10,084,625																										
NET CHANGE BY CHG. ORDERS:		$ (94,204)																										
NET REVISED CONTRACT AMOUNT:		$ 9,990,421																										

RESOLUTION #025-011
CITY OF IRONWOOD
A RESOLUTION ADOPTING A FINAL PROJECT PLANNING DOCUMENT
FOR WATER SYSTEM IMPROVEMENTS
AND DESIGNATING AN AUTHORIZED PROJECT REPRESENTATIVE

At a Regular Meeting of the Ironwood City Commission, duly held on May 12, 2025, in the Commission Chambers of the Municipal Memorial Building, Ironwood, Michigan, the following Resolution was offered by Commissioner _____, supported by Commissioner _____.

WHEREAS, the City of Ironwood, Michigan recognizes the need to make improvements to its existing water treatment and distribution system; and

WHEREAS, the City of Ironwood, Michigan authorized Coleman Engineering Company to prepare a Project Planning Document, which recommends the construction of a phased water distribution system upgrades project; and

WHEREAS, said Project Planning Document was presented at a Public Hearing held on May 12, 2025, beginning at 5:20 P.M., and all public comments have been considered and addressed;

NOW THEREFORE BE IT RESOLVED, that the City of Ironwood, Michigan formally adopts said Project Planning Document and agrees to implement the selected alternative (Alternative 3).

BE IT FURTHER RESOLVED, that the City Manager, a position currently held by Paul Anderson, is designated as the authorized representative for all activities associated with the project referenced above, including the submittal of said Project Planning Document as the first step in applying to the State of Michigan for a Drinking Water State Revolving Fund Loan to assist in the implementation of the selected alternative.

Upon roll call vote the following voted:

YEAS:
NAYS:
ABSENT: Commissioner Semo

RESOLUTION DECLARED ADOPTED.

_____
Kim Corcoran, Mayor

I, Jennifer Jacobson, the duly appointed City Clerk of the City of Ironwood, Michigan, do hereby certify that the foregoing is a true copy of a Resolution adopted by the City Commission of the City of Ironwood at its Regular Meeting on May 12, 2025.

_____
Jennifer Jacobson, City Clerk

NOTICE OF AWARD

Date of Issuance: May 12, 2025

Owner: City of Ironwood | Owner's Project No.:

Engineer: Coleman Engineering Company | Engineer's Project No.: 240618

Project: Phase 5B Water and Sewer Upgrades

Contract Name: Phase 5B Water and Sewer Upgrades

Bidder: Jake's Excavating & Landscaping, LLC

Bidder's Address: N10633 Lake Road, Ironwood, MI 49938

You are notified that Owner has accepted your Bid dated April 11, 2025 for the above Contract, and that you are the Successful Bidder and are awarded a Contract for: Phase 5B Water and Sewer Upgrades, City of Ironwood, Gogebic County, Michigan

The Contract Price of the awarded Contract is Three Million Eight Hundred Seventy-Eight Thousand Two Hundred Forty-Seven Dollars and 98/100 ($3,878,247.98). Contract Price is subject to adjustment based on the provisions of the Contract, including but not limited to those governing changes, Unit Price Work, and Work performed on a cost-plus-fee basis, as applicable.

Three [3] unexecuted counterparts of the Agreement accompany this Notice of Award, and one copy of the Contract Documents accompanies this Notice of Award, or has been transmitted or made available to Bidder electronically.

☒ Drawings will be delivered separately from the other Contract Documents.

You must comply with the following conditions precedent within 15 days of the date of receipt of this Notice of Award:

1. Deliver to Owner **[3]** counterparts of the Agreement, signed by Bidder (as Contractor).
2. Deliver with the signed Agreement(s) the Contract security (such as required performance and payment bonds) and insurance documentation, as specified in the Instructions to Bidders and in the General Conditions, Articles 2 and 6.
3. Other conditions precedent (if any): **Award is being made contingent upon the City receiving construction funding from USDA Rural Development and is further contingent upon execution by all parties of Change Order #1 increasing the Contract amount to $5,927,008.62.**

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul this Notice of Award, and declare your Bid security forfeited.

Within 10 days after you comply with the above conditions, Owner will return to you one fully signed counterpart of the Agreement, together with any additional copies of the Contract Documents as indicated in Paragraph 2.02 of the General Conditions.

Owner: **City of Ironwood**

By *(signature)*: _____

Name *(printed)*: _____

Title: _____

Copy: Engineer

COLEMAN ENGINEERING COMPANY
CIVIL ENGINEERING • GEOTECHNICAL ENGINEERING • SURVEYING

200 EAST AYER STREET • IRONWOOD, MI 49938 • PHONE: 906-932-5048

May 12, 2025

Mr. Paul Anderson, City Manager
City of Ironwood
213 S. Marquette St.
Ironwood, MI 49938

Re: Phase 5B Water and Sewer Upgrades

Dear Mr. Anderson:

We have reviewed the three bids received on April 11, 2025 from construction contractors for the above referenced project. We have prepared a bid tabulation (attached) and have reviewed each bid for compliance with the contract documents.

The apparent low bid was received from M. Jolma, Inc. in the amount of $3,360,487.27 for the base bid and $265,525.10 for Alternate "A" for the work as specified in the contract documents. We have reviewed all the required documents submitted by M. Jolma, Inc. and found several required bidding documents were not included with the submitted bid. Specifically, these documents are listed below.

- CERTIFICATION FOR CONTRACTS, GRANTS AND LOANS
- CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION, LOWER TIER COVERED TRANSACTIONS (USDA)
- COMPLIANCE STATEMENT
- NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENTS FOR CERTIFICATION OF NON-SEGREGATED FACILITIES

These documents are required to be submitted with the bid by USDA Rural Development for the project. Additionally, several forms required by the bid documents, as part of the EGLE project funding, were not provided in the bid. As such, this bid could be found to be non-responsive by the City and the bid rejected.

The next lowest bid was received from Jakes's Excavating & Landscaping, LLC. in the amount of $3,878,247.98 for the base bid and $223,250.00 for Alternate "A" for the work as specified in the contract documents. We have reviewed all the required documents submitted by Jakes's Excavating & Landscaping, LLC. and found that all required bidding documents were included in the bid.

One additional bid was received from Ruotsala Construction, Inc. in the amount of $5,349,174.00 for the base bid and $237,000.00 for Alternate "A" for the work as specified in the contract documents.

We have prepared the Notice of Award to Jakes's Excavating & Landscaping, LLC, in anticipation of your award. There are requirements listed on the Notice of Award that Jakes's Excavating & Landscaping, LLC, will need to fulfill prior to completion of the award process. These requirements include providing bonds and insurance certificates. In addition, award is being made contingent upon receiving USDA funding for the project and Jakes's Excavating & Landscaping, LLC approval of a change order to modify the contract amount to match available funding.

If you decide to make the award to Jakes's Excavating & Landscaping, LLC, sign the Notice of Award and return it to Coleman Engineering Company. We will distribute the executed document to the Contractor along with other required contractual items. When the contract is complete, we will provide you with a fully executed set of Contract Documents. Please be aware this analysis is not binding on City and we can change the award as you direct.

Please contact me if you have any questions or require additional information.

Sincerely,
COLEMAN ENGINEERING COMPANY

Scott Nowack
Principal

SN/mb

Enclosures

BID TABULATION - City of Ironwood 240618: Phase 5B Water & Sewer Upgrades				M. Jolma, Inc.		Jake's Excavating & Landscaping, LLC		Ruotsala Construction, Inc.	
Item	Description	Units	Qty.	Unit	Total	Unit	Total	Unit	Total
EGLE - Water System Upgrades									
101	4-inch Watermain	LF	5	$ 115.69	$ 578.45	$ 100.00	$ 500.00	$ 150.00	$ 750.00
102	6-inch Watermain	LF	95	$ 60.52	$ 5,749.40	$ 75.00	$ 7,125.00	$ 95.00	$ 9,025.00
103	8-inch Watermain	LF	7711	$ 58.53	$ 451,324.83	$ 73.00	$ 562,903.00	$ 110.00	$ 848,210.00
104	6-inch Gate Valve and Box	EA	1	$ 2,132.04	$ 2,132.04	$ 2,350.00	$ 2,350.00	$ 3,000.00	$ 3,000.00
105	8-inch Gate Valve and Box	EA	30	$ 2,973.91	$ 89,217.30	$ 3,025.00	$ 90,750.00	$ 3,200.00	$ 96,000.00
106	8" x 8" x 6" Tee	EA	18	$ 694.02	$ 12,492.36	$ 700.00	$ 12,600.00	$ 500.00	$ 9,000.00
107	8" x 8" x 8" Tee	EA	6	$ 758.95	$ 4,553.70	$ 900.00	$ 5,400.00	$ 500.00	$ 3,000.00
108	8" x 8" x 8" x 8" Cross	EA	2	$ 1,203.25	$ 2,406.50	$ 1,250.00	$ 2,500.00	$ 500.00	$ 1,000.00
109	6" x 4" Reducer	EA	1	$ 286.01	$ 286.01	$ 400.00	$ 400.00	$ 500.00	$ 500.00
110	8" x 6" Reducer	EA	5	$ 415.15	$ 2,075.75	$ 550.00	$ 2,750.00	$ 500.00	$ 2,500.00
111	4-inch Bend	EA	2	$ 282.60	$ 565.20	$ 500.00	$ 1,000.00	$ 500.00	$ 1,000.00
112	6-inch Bend	EA	10	$ 370.97	$ 3,709.70	$ 570.00	$ 5,700.00	$ 500.00	$ 5,000.00
113	8-inch Bend	EA	6	$ 477.01	$ 2,862.06	$ 670.00	$ 4,020.00	$ 500.00	$ 3,000.00
114	Watermain Cap/Plug	EA	1	$ 311.32	$ 311.32	$ 400.00	$ 400.00	$ 500.00	$ 500.00
115	Connect to Ex. 4" Watermain	EA	1	$ 301.38	$ 301.38	$ 750.00	$ 750.00	$ 1,500.00	$ 1,500.00
116	Connect to Ex. 6" Watermain	EA	5	$ 430.44	$ 2,152.20	$ 1,200.00	$ 6,000.00	$ 1,500.00	$ 7,500.00
117	Connect to Ex. 8" Watermain	EA	6	$ 522.12	$ 3,132.72	$ 1,500.00	$ 9,000.00	$ 1,500.00	$ 9,000.00
118	1-inch Corporation Stop	EA	150	$ 104.85	$ 15,727.50	$ 350.00	$ 52,500.00	$ 500.00	$ 75,000.00
119	1-inch Curb Stop and Box	EA	150	$ 301.38	$ 45,207.00	$ 425.00	$ 63,750.00	$ 500.00	$ 75,000.00
120	1-inch Type K Copper Water Service (City Side)	LF	4460	$ 23.44	$ 104,542.40	$ 36.00	$ 160,560.00	$ 65.00	$ 289,900.00
121	1-inch Type K Copper Water Service (Private Side)	LF	1875	$ 23.91	$ 44,831.25	$ 39.00	$ 73,125.00	$ 65.00	$ 121,875.00
122	2-inch Corporation Stop/Saddle	EA	2	$ 669.21	$ 1,338.42	$ 950.00	$ 1,900.00	$ 1,000.00	$ 2,000.00
123	2-inch Curb Stop and Box	EA	2	$ 704.56	$ 1,409.12	$ 875.00	$ 1,750.00	$ 1,000.00	$ 2,000.00
124	2-inch Type K Copper Water Service (City Side)	LF	60	$ 40.97	$ 2,458.20	$ 75.00	$ 4,500.00	$ 65.00	$ 3,900.00
125	Water Service - Interior Plumbing Connection	EA	37	$ 552.30	$ 20,435.10	$ 450.00	$ 16,650.00	$ 500.00	$ 18,500.00
126	Plumbing Permit Application and Administration	EA	37	$ 99.41	$ 3,678.17	$ 150.00	$ 5,550.00	$ 250.00	$ 9,250.00
127	Plumbing Permit Application Fee	EA	37	$ 82.85	$ 3,065.45	$ 100.00	$ 3,700.00	$ 250.00	$ 9,250.00
128	6" x 12" Grade Offset Adapter	EA	17	$ 658.17	$ 11,188.89	$ 750.00	$ 12,750.00	$ 100.00	$ 1,700.00
129	6-inch Ductile Iron Hydrant Lead	LF	180	$ 42.01	$ 7,561.80	$ 65.00	$ 11,700.00	$ 100.00	$ 18,000.00
130	Fire Hydrant Assembly	EA	17	$ 7,716.98	$ 131,188.66	$ 7,650.00	$ 130,050.00	$ 9,500.00	$ 161,500.00
131	Salvage Existing Hydrant	EA	8	$ 101.27	$ 810.16	$ 150.00	$ 1,200.00	$ 500.00	$ 4,000.00
132	12-inch HDPE/PVC Storm Sewer	LF	30	$ 34.88	$ 1,046.40	$ 50.00	$ 1,500.00	$ 50.00	$ 1,500.00
133	12-inch RCP Storm Sewer	LF	122	$ 41.84	$ 5,104.48	$ 54.00	$ 6,588.00	$ 75.00	$ 9,150.00
134	24-inch RCP Storm Sewer	LF	36	$ 207.83	$ 7,481.88	$ 85.00	$ 3,060.00	$ 95.00	$ 3,420.00
135	36-inch RCP Storm Sewer	LF	10	$ 137.69	$ 1,376.90	$ 155.00	$ 1,550.00	$ 125.00	$ 1,250.00
136	42-inch RCP Storm Sewer	LF	16	$ 173.45	$ 2,775.20	$ 236.00	$ 3,776.00	$ 150.00	$ 2,400.00
137	Storm Sewer Catch Basin 2' Dia.	EA	4	$ 1,207.73	$ 4,830.92	$ 3,000.00	$ 12,000.00	$ 4,500.00	$ 18,000.00
138	Storm Sewer Manhole 4' Dia.	EA	5	$ 2,419.25	$ 12,096.25	$ 5,100.00	$ 25,500.00	$ 5,000.00	$ 25,000.00
139	Storm Sewer Manhole 6' Dia	EA	1	$ 6,112.51	$ 6,112.51	$ 8,100.00	$ 8,100.00	$ 6,500.00	$ 6,500.00
140	Connect to Ex Storm Sewer	EA	10	$ 111.87	$ 1,118.70	$ 400.00	$ 4,000.00	$ 1,200.00	$ 12,000.00
141	Drainage Structure Cover & Adjust	EA	10	$ 336.55	$ 3,365.50	$ 200.00	$ 2,000.00	$ 800.00	$ 8,000.00
142	Video Taping Sanitary, Storm, and Culvert Pipe	LF	214	$ 3.76	$ 804.64	$ 3.50	$ 749.00	$ 5.00	$ 1,070.00
143	Excavation, Earth	CY	3055	$ 5.59	$ 17,077.45	$ 11.00	$ 33,605.00	$ 20.00	$ 61,100.00

BID TABULATION - City of Ironwood 240618: Phase 5B Water & Sewer Upgrades				M. Jolma, Inc.		Jake's Excavating & Landscaping, LLC		Ruotsala Construction, Inc.	
Item	Description	Units	Qty.	Unit	Total	Unit	Total	Unit	Total
144	Excavation, Rock	CY	415	$ 0.13	$ 53.95	$ 10.00	$ 4,150.00	$ 1.00	$ 415.00
145	Subgrade Undercutting, Special	CY	1100	$ 16.82	$ 18,502.00	$ 15.00	$ 16,500.00	$ 1.00	$ 1,100.00
146	Special Backfill	CY	50	$ 26.22	$ 1,311.00	$ 12.00	$ 600.00	$ 1.00	$ 50.00
147	Stone Refill (MDOT 6A)	CY	50	$ 28.58	$ 1,429.00	$ 20.00	$ 1,000.00	$ 1.00	$ 50.00
148	Curb and Gutter, Rem	LF	7915	$ 0.91	$ 7,202.65	$ 2.00	$ 15,830.00	$ 1.00	$ 7,915.00
149	Concrete Sidewalk & Driveway, Rem	SY	2560	$ 2.27	$ 5,811.20	$ 4.00	$ 10,240.00	$ 1.00	$ 2,560.00
150	Concrete Pavement, Rem	SY	340	$ 10.30	$ 3,502.00	$ 5.00	$ 1,700.00	$ 1.00	$ 340.00
151	HMA Surface, Rem	SY	14183	$ 1.51	$ 21,416.33	$ 1.75	$ 24,820.25	$ 1.00	$ 14,183.00
152	Utility Exploration	EA	20	$ 223.52	$ 4,470.40	$ 150.00	$ 3,000.00	$ 1.00	$ 20.00
153	Subbase, CIP	CY	973	$ 16.61	$ 16,161.53	$ 13.00	$ 12,649.00	$ 10.00	$ 9,730.00
154	Aggregate Base, 4 inch	SY	1640	$ 1.54	$ 2,525.60	$ 2.50	$ 4,100.00	$ 5.00	$ 8,200.00
155	Aggregate Base, 9 inch	SY	13385	$ 4.06	$ 54,343.10	$ 5.25	$ 70,271.25	$ 9.00	$ 120,465.00
156	Aggregate Surface Cse, 9 inch	SY	68	$ 10.28	$ 699.04	$ 10.00	$ 680.00	$ 9.00	$ 612.00
157	HMA (4EML, Leveling, 220#/SYD)	SY	13385	$ 11.16	$ 149,376.60	$ 10.85	$ 145,227.25	$ 15.00	$ 200,775.00
158	HMA (5EML, Surface, 165#/SYD)	SY	13385	$ 9.00	$ 120,465.00	$ 8.20	$ 109,757.00	$ 10.00	$ 133,850.00
159	HMA (5EML, Driveway, 275#/SYD)	SY	596	$ 30.38	$ 18,106.48	$ 28.00	$ 16,688.00	$ 40.00	$ 23,840.00
160	Curb and Gutter, Conc, Det F-2	LF	6224	$ 25.41	$ 158,151.84	$ 22.75	$ 141,596.00	$ 23.00	$ 143,152.00
161	Curb and Gutter, Conc, Det F-4	LF	640	$ 25.41	$ 16,262.40	$ 22.75	$ 14,560.00	$ 23.00	$ 14,720.00
162	Curb Slp, HMA	LF	25	$ 5.52	$ 138.00	$ 5.00	$ 125.00	$ 5.00	$ 125.00
163	Sidewalk, Concrete, 4 inch	SF	16160	$ 7.73	$ 124,916.80	$ 7.00	$ 113,120.00	$ 7.00	$ 113,120.00
164	Driveway, Nonreinf Conc, 6 inch	SY	730	$ 138.08	$ 100,798.40	$ 75.00	$ 54,750.00	$ 125.00	$ 91,250.00
165	Detectable Warning Surface	LF	55	$ 110.46	$ 6,075.30	$ 130.00	$ 7,150.00	$ 100.00	$ 5,500.00
166	Pavt Mrkg, Waterborne, 4 inch, Yellow	LF	2900	$ 0.99	$ 2,871.00	$ 0.90	$ 2,610.00	$ 2.00	$ 5,800.00
167	Pavt Mrkg, Polyurea, 6 inch, Crosswalk	LF	914	$ 24.30	$ 22,210.20	$ 4.00	$ 3,656.00	$ 30.00	$ 27,420.00
168	Pavt Mrkg, Polyurea, 18 inch, Stop Bar	LF	141	$ 49.71	$ 7,009.11	$ 16.00	$ 2,256.00	$ 40.00	$ 5,640.00
169	Slope Restoration, Type A	SY	4550	$ 1.01	$ 4,595.50	$ 2.10	$ 9,555.00	$ 5.00	$ 22,750.00
170	Insulation Board, 2-Inch	SF	1000	$ 2.52	$ 2,520.00	$ 2.00	$ 2,000.00	$ 3.00	$ 3,000.00
171	Tree Removal, 12 inch or larger	EA	8	$ 190.32	$ 1,522.56	$ 500.00	$ 4,000.00	$ 850.00	$ 6,800.00
172	Traffic Control	LS	0.5	$ 44,570.88	$ 22,285.44	$ 41,000.00	$ 20,500.00	$ 10,000.00	$ 5,000.00
173	Erosion Control, Inlet Protection, Fabric Drop	EA	20	$ 102.91	$ 2,058.20	$ 50.00	$ 1,000.00	$ 200.00	$ 4,000.00
USDA RD - Sanitary Sewer System Upgrades									
201	8" SDR 35 PVC Gravity Sewer	LF	3647	$ 40.80	$ 148,797.60	$ 58.00	$ 211,526.00	$ 125.00	$ 455,875.00
202	12" SDR 35 PVC Gravity Sewer	LF	1201	$ 50.09	$ 60,158.09	$ 72.00	$ 86,472.00	$ 135.00	$ 162,135.00
203	15" SDR 35 PVC Gravity Sewer	LF	508	$ 61.93	$ 31,460.44	$ 93.20	$ 47,345.60	$ 150.00	$ 76,200.00
204	18" SDR 35 PVC Gravity Sewer	LF	1314	$ 65.35	$ 85,869.90	$ 103.25	$ 135,670.50	$ 175.00	$ 229,950.00
205	24" SDR 35 PVC Gravity Sewer	LF	5	$ 98.49	$ 492.45	$ 300.00	$ 1,500.00	$ 200.00	$ 1,000.00
206	4' Dia. Stand. San MH & Cover	VF	325.9	$ 484.92	$ 158,035.43	$ 782.20	$ 254,918.98	$ 300.00	$ 97,770.00
207	Sanitary Sewer Drop MH Connection - New MH	EA	1	$ 572.52	$ 572.52	$ 8,000.00	$ 8,000.00	$ 2,500.00	$ 2,500.00
208	Sanitary Sewer Drop MH Connection - Existing MH	EA	1	$ 1,377.50	$ 1,377.50	$ 2,500.00	$ 2,500.00	$ 2,500.00	$ 2,500.00
209	Sanitary Manhole Cover and Adjust	EA	5	$ 101.27	$ 506.35	$ 250.00	$ 1,250.00	$ 1,200.00	$ 6,000.00
210	Connect to Ex Sanitary Sewer MH	EA	5	$ 101.27	$ 506.35	$ 750.00	$ 3,750.00	$ 1,500.00	$ 7,500.00
211	Connect to Ex Sanitary Sewer Main	EA	46	$ 344.28	$ 15,836.88	$ 350.00	$ 16,100.00	$ 900.00	$ 41,400.00
212	8"x6" Sanitary Sewer Wye	EA	71	$ 128.00	$ 9,088.00	$ 225.00	$ 15,975.00	$ 500.00	$ 35,500.00
213	12"x6" Sanitary Sewer Wye	EA	19	$ 456.02	$ 8,664.38	$ 475.00	$ 9,025.00	$ 500.00	$ 9,500.00

BID TABULATION - City of Ironwood 240618: Phase 5B Water & Sewer Upgrades				M. Jolma, Inc.		Jake's Excavating & Landscaping, LLC		Ruotsala Construction, Inc.	
Item	Description	Units	Qty.	Unit	Total	Unit	Total	Unit	Total
214	15"x6" Sanitary Sewer Wye	EA	8	$ 834.90	$ 6,679.20	$ 825.00	$ 6,600.00	$ 600.00	$ 4,800.00
215	18"x6" Sanitary Sewer Wye	EA	28	$ 1,572.78	$ 44,037.84	$ 1,450.00	$ 40,600.00	$ 600.00	$ 16,800.00
216	6" SDR 35 PVC Sewer Lateral	LF	3775	$ 20.03	$ 75,613.25	$ 37.00	$ 139,675.00	$ 100.00	$ 377,500.00
217	12-inch HDPE/PVC Storm Sewer	LF	30	$ 52.48	$ 1,574.40	$ 55.00	$ 1,650.00	$ 65.00	$ 1,950.00
218	12-inch RCP Storm Sewer	LF	49	$ 41.85	$ 2,050.65	$ 54.00	$ 2,646.00	$ 85.00	$ 4,165.00
219	24-inch RCP Storm Sewer	LF	36	$ 207.83	$ 7,481.88	$ 85.00	$ 3,060.00	$ 115.00	$ 4,140.00
220	36-inch RCP Storm Sewer	LF	10	$ 137.69	$ 1,376.90	$ 155.00	$ 1,550.00	$ 175.00	$ 1,750.00
221	42-inch RCP Storm Sewer	LF	16	$ 173.45	$ 2,775.20	$ 236.00	$ 3,776.00	$ 250.00	$ 4,000.00
222	Storm Sewer Catch Basin 2' Dia.	EA	1	$ 4,160.35	$ 4,160.35	$ 3,000.00	$ 3,000.00	$ 3,500.00	$ 3,500.00
223	Storm Sewer Manhole 4' Dia.	EA	1	$ 2,182.42	$ 2,182.42	$ 5,100.00	$ 5,100.00	$ 6,500.00	$ 6,500.00
224	Connect to Ex Storm Sewer	EA	4	$ 101.27	$ 405.08	$ 500.00	$ 2,000.00	$ 1,200.00	$ 4,800.00
225	Drainage Structure Cover & Adjust	EA	10	$ 156.50	$ 1,565.00	$ 200.00	$ 2,000.00	$ 850.00	$ 8,500.00
226	Video Taping Sanitary, Storm, and Culvert Pipe	LF	6816	$ 3.76	$ 25,628.16	$ 3.50	$ 23,856.00	$ 2.00	$ 13,632.00
227	Non-Structural Flowable Fill	CY	50	$ 192.85	$ 9,642.50	$ 135.00	$ 6,750.00	$ 300.00	$ 15,000.00
228	Excavation, Earth	CY	3355	$ 5.59	$ 18,754.45	$ 11.00	$ 36,905.00	$ 20.00	$ 67,100.00
229	Excavation, Rock	CY	415	$ 0.13	$ 53.95	$ 10.00	$ 4,150.00	$ 65.00	$ 26,975.00
230	Subgrade Undercutting, Special	CY	750	$ 16.82	$ 12,615.00	$ 15.00	$ 11,250.00	$ 10.00	$ 7,500.00
231	Special Backfill	CY	50	$ 26.22	$ 1,311.00	$ 12.00	$ 600.00	$ 10.00	$ 500.00
232	Stone Refill (MDOT 6A)	CY	50	$ 17.54	$ 877.00	$ 20.00	$ 1,000.00	$ 1.00	$ 50.00
233	Curb and Gutter, Rem	LF	3955	$ 0.91	$ 3,599.05	$ 2.00	$ 7,910.00	$ 1.00	$ 3,955.00
234	Concrete Sidewalk & Driveway, Rem	SY	2070	$ 2.27	$ 4,698.90	$ 4.00	$ 8,280.00	$ 1.00	$ 2,070.00
235	Concrete Pavement, Rem	SY	680	$ 10.30	$ 7,004.00	$ 5.00	$ 3,400.00	$ 1.00	$ 680.00
236	HMA Surface, Rem	SY	10031	$ 1.51	$ 15,146.81	$ 2.00	$ 20,062.00	$ 1.00	$ 10,031.00
237	Utility Exploration	EA	30	$ 223.52	$ 6,705.60	$ 100.00	$ 3,000.00	$ 1.00	$ 30.00
238	Subbase, CIP	CY	125	$ 16.60	$ 2,075.00	$ 12.00	$ 1,500.00	$ 10.00	$ 1,250.00
239	Aggregate Base, 4 inch	SY	1170	$ 1.54	$ 1,801.80	$ 2.50	$ 2,925.00	$ 5.00	$ 5,850.00
240	Aggregate Base, 9 inch	SY	9579	$ 4.31	$ 41,285.49	$ 5.25	$ 50,289.75	$ 9.00	$ 86,211.00
241	Aggregate Surface Cse, 9 inch	SY	14	$ 10.39	$ 145.46	$ 10.00	$ 140.00	$ 9.00	$ 126.00
242	HMA (4EML, Leveling, 220#/syd)	SY	9579	$ 11.16	$ 106,901.64	$ 10.85	$ 103,932.15	$ 15.00	$ 143,685.00
243	HMA (5EML, Surface, 165#/syd)	SY	9579	$ 9.00	$ 86,211.00	$ 8.20	$ 78,547.80	$ 10.00	$ 95,790.00
244	HMA (5EML, Driveway, 275#/syd)	SY	243	$ 30.38	$ 7,382.34	$ 28.00	$ 6,804.00	$ 40.00	$ 9,720.00
245	Curb and Gutter, Conc, Det F-2	LF	3920	$ 25.41	$ 99,607.20	$ 23.00	$ 90,160.00	$ 23.00	$ 90,160.00
246	Curb and Gutter, Conc, Det F-4	LF	790	$ 25.41	$ 20,073.90	$ 23.00	$ 18,170.00	$ 23.00	$ 18,170.00
247	Curb Slp, HMA	LF	190	$ 5.52	$ 1,048.80	$ 5.00	$ 950.00	$ 5.00	$ 950.00
248	Sidewalk, Concrete, 4 inch	SF	10605	$ 7.73	$ 81,976.65	$ 7.00	$ 74,235.00	$ 7.00	$ 74,235.00
249	Driveway, Nonreinf Conc, 6 inch	SY	836	$ 138.08	$ 115,434.88	$ 75.00	$ 62,700.00	$ 125.00	$ 104,500.00
250	Detectable Warning Surface	LF	35	$ 110.46	$ 3,866.10	$ 130.00	$ 4,550.00	$ 100.00	$ 3,500.00
251	Slope Restoration, Type A	SY	4305	$ 1.66	$ 7,146.30	$ 2.25	$ 9,686.25	$ 5.00	$ 21,525.00
252	Insulation Board, 2-Inch	SF	500	$ 1.80	$ 900.00	$ 2.00	$ 1,000.00	$ 3.00	$ 1,500.00
253	Tree Removal, 12 inch or larger	EA	6	$ 226.63	$ 1,359.78	$ 500.00	$ 3,000.00	$ 850.00	$ 5,100.00
254	Traffic Control	LS	0.5	$ 44,570.88	$ 22,285.44	$ 41,000.00	$ 20,500.00	$ 10,000.00	$ 5,000.00
255	Erosion Control, Inlet Protection, Fabric Drop	EA	16	$ 38.96	$ 623.36	$ 60.00	$ 960.00	$ 200.00	$ 3,200.00
City of Ironwood - Restoration Items									
301	Curb and Gutter, Rem (City)	LF	875	$ 2.27	$ 1,986.25	$ 2.50	$ 2,187.50	$ 1.00	$ 875.00

BID TABULATION - City of Ironwood 240618: Phase 5B Water & Sewer Upgrades				M. Jolma, Inc.			Jake's Excavating & Landscaping, LLC			Ruotsala Construction, Inc.		
Item	Description	Units	Qty.	Unit	Total		Unit	Total		Unit	Total	
302	Concrete Sidewalk & Driveway, Rem (City)	SY	180	$ 2.27	$ 408.60	*	$ 4.00	$ 720.00		$ 1.00	$ 180.00	
303	HMA Surface, Rem (City)	SY	729	$ 2.27	$ 1,654.83		$ 2.50	$ 1,822.50		$ 1.00	$ 729.00	
304	Subbase, CIP (City)	CY	278	$ 16.61	$ 4,617.58		$ 13.00	$ 3,614.00		$ 10.00	$ 2,780.00	
305	Aggregate Base, 4 inch (City)	SY	100	$ 1.54	$ 154.00		$ 2.75	$ 275.00		$ 5.00	$ 500.00	
306	Aggregate Base, 9 inch (City)	SY	827	$ 4.06	$ 3,357.62		$ 5.50	$ 4,548.50		$ 9.00	$ 7,443.00	
307	HMA (4EML, Leveling, 220#/SYD) (City)	SY	827	$ 11.16	$ 9,229.32		$ 10.90	$ 9,014.30		$ 15.00	$ 12,405.00	
308	HMA (5EML, Surface, 165#/SYD) (City)	SY	827	$ 9.00	$ 7,443.00		$ 8.20	$ 6,781.40		$ 10.00	$ 8,270.00	
309	HMA (5EML, Driveway, 275#/SYD) (City)	SY	100	$ 30.38	$ 3,038.00		$ 28.00	$ 2,800.00		$ 40.00	$ 4,000.00	
310	Curb Slp, HMA	LF	10	$ 5.52	$ 55.20		$ 10.00	$ 100.00		$ 5.00	$ 50.00	
311	Sidewalk, Concrete, 4 inch (City)	SF	1315	$ 7.73	$ 10,164.95	*	$ 7.00	$ 9,205.00		$ 7.00	$ 9,205.00	
312	Driveway, Nonreinf Conc, 6 inch (City)	SY	15	$ 138.08	$ 2,071.20	*	$ 75.00	$ 1,125.00		$ 125.00	$ 1,875.00	
313	Detectable Warning Surface (City)	LF	10	$ 110.46	$ 1,104.60		$ 130.00	$ 1,300.00		$ 100.00	$ 1,000.00	
314	Slope Restoration, Type A (City)	SY	300	$ 1.66	$ 498.00		$ 5.00	$ 1,500.00		$ 5.00	$ 1,500.00	
				TOTAL BASE BID	**$ 3,360,487.27**	*	**TOTAL BASE BID**	**$ 3,878,247.98**	*	**TOTAL BASE BID**	**$ 5,349,174.00**	

BID TABULATION - City of Ironwood 240618: Phase 5B Water & Sewer Upgrades				M. Jolma, Inc.			Jake's Excavating & Landscaping, LLC			Ruotsala Construction, Inc.	
Item	Description	Units	Qty.	Unit	Total		Unit	Total		Unit	Total
Alternate "A" - Additional Concrete Sidewalk											
302	Concrete Sidewalk & Driveway, Rem (City)	SY	3250	$ 2.27	$ 7,377.50		$ 4.00	$ 13,000.00		$ 1.00	$ 3,250.00
311	Sidewalk, Concrete, 4-inch (City)	SF	25000	$ 7.73	$ 193,250.00		$ 7.00	$ 175,000.00		$ 7.00	$ 175,000.00
312	Driveway, Nonreinf Conc, 6 inch (City)	SY	470	$ 138.08	$ 64,897.60		$ 75.00	$ 35,250.00		$ 125.00	$ 58,750.00
				TOTAL ALT. "A"	**$ 265,525.10**	*	**TOTAL ALT. "A"**	**$ 223,250.00**		**TOTAL ALT. "A"**	**$ 237,000.00**
				TOTAL BASE BID + ALT "A"	**$ 3,626,012.37**		**TOTAL BASE BID + ALT "A"**	**$ 4,101,497.98**		**TOTAL BASE BID + ALT "A"**	**$ 5,586,174.00**

* Denotes bid has been corrected in favor of correct sum as required by the Contract Documents.

CHANGE ORDER NO.: 1

Owner: City of Ironwood
Engineer: Coleman Engineering Company
Contractor: Jake's Excavating and Landscaping, LLC
Project: Phase 5B Water and Sewer Upgrades
Contract Name: Phase 5B Water and Sewer Upgrades
Date Issued: May 8, 2025

Owner's Project No.:
Engineer's Project No.: 240618
Contractor's Project No.:
Effective Date of Change Order: May 12, 2025

The Contract is modified as follows upon execution of this Change Order:

Description: Addition of Sanitary sewer lining items according to the attached specifications and map.

Attachments: Change Order #1 Quantities, specifications and map of the Sewer Lining locations.

Change in Contract Price	**Change in Contract Times [State Contract Times as either a specific date or a number of days]**
Original Contract Price: $ 3,878,247,98	Original Contract Times: Substantial Completion: August 14, 2026 Ready for final payment: August 28, 2026
[Increase] ~~**[Decrease]**~~ from previously approved Change Orders No. 1 to No. **[Number of previous Change Order]**: $ 0.00	~~**[Increase] [Decrease]**~~ from previously approved Change Orders No.1 to No. **[Number of previous Change Order]**: Substantial Completion: 0 Ready for final payment: 0
Contract Price prior to this Change Order: $ 3,878,247,98	Contract Times prior to this Change Order: Substantial Completion: August 14, 2026 Ready for final payment: August 28, 2026
[Increase] ~~**[Decrease]**~~ this Change Order: $ 2,048,760.64	**[Increase] [Decrease]** this Change Order: Substantial Completion: 0 Ready for final payment: 0
Contract Price incorporating this Change Order: $ 5,927,008.62	Contract Times with all approved Change Orders: Substantial Completion: August 14, 2026 Ready for final payment: August 28, 2026

	Recommended by Engineer (if required)	Accepted by Contractor
By:		
Title:		
Date:		
	Authorized by Owner	Approved by Funding Agency (if applicable)
By:		
Title:		
Date:		

Change Order #1 - City of Ironwood 240618: Phase 5B Water & Sewer Upgrades			Submitted Bid Jake's Excavating & Landscaping, LLC			Change Order #1		Revised Contract (Through Change Order No. 1)	
Item	Description	Units	Unit	Quantity	Total	Quantity	Total	Quantity	Total
EGLE - Water System Upgrades									
101	4-inch Watermain	LF	$ 100.00	5	$ 500.00	0	$ -	5	$ 500.00
102	6-inch Watermain	LF	$ 75.00	95	$ 7,125.00	0	$ -	95	$ 7,125.00
103	8-inch Watermain	LF	$ 73.00	7711	$ 562,903.00	0	$ -	7711	$ 562,903.00
104	6-inch Gate Valve and Box	EA	$ 2,350.00	1	$ 2,350.00	0	$ -	1	$ 2,350.00
105	8-inch Gate Valve and Box	EA	$ 3,025.00	30	$ 90,750.00	0	$ -	30	$ 90,750.00
106	8" x 8" x 6" Tee	EA	$ 700.00	18	$ 12,600.00	0	$ -	18	$ 12,600.00
107	8" x 8" x 8" Tee	EA	$ 900.00	6	$ 5,400.00	0	$ -	6	$ 5,400.00
108	8" x 8" x 8" x 8" Cross	EA	$ 1,250.00	2	$ 2,500.00	0	$ -	2	$ 2,500.00
109	6" x 4" Reducer	EA	$ 400.00	1	$ 400.00	0	$ -	1	$ 400.00
110	8" x 6" Reducer	EA	$ 550.00	5	$ 2,750.00	0	$ -	5	$ 2,750.00
111	4-inch Bend	EA	$ 500.00	2	$ 1,000.00	0	$ -	2	$ 1,000.00
112	6-inch Bend	EA	$ 570.00	10	$ 5,700.00	0	$ -	10	$ 5,700.00
113	8-inch Bend	EA	$ 670.00	6	$ 4,020.00	0	$ -	6	$ 4,020.00
114	Watermain Cap/Plug	EA	$ 400.00	1	$ 400.00	0	$ -	1	$ 400.00
115	Connect to Ex. 4" Watermain	EA	$ 750.00	1	$ 750.00	0	$ -	1	$ 750.00
116	Connect to Ex. 6" Watermain	EA	$ 1,200.00	5	$ 6,000.00	0	$ -	5	$ 6,000.00
117	Connect to Ex. 8" Watermain	EA	$ 1,500.00	6	$ 9,000.00	0	$ -	6	$ 9,000.00
118	1-inch Corporation Stop	EA	$ 350.00	150	$ 52,500.00	0	$ -	150	$ 52,500.00
119	1-inch Curb Stop and Box	EA	$ 425.00	150	$ 63,750.00	0	$ -	150	$ 63,750.00
120	1-inch Type K Copper Water Service (City Side)	LF	$ 36.00	4460	$ 160,560.00	0	$ -	4460	$ 160,560.00
121	1-inch Type K Copper Water Service (Private Side)	LF	$ 39.00	1875	$ 73,125.00	0	$ -	1875	$ 73,125.00
122	2-inch Corporation Stop/Saddle	EA	$ 950.00	2	$ 1,900.00	0	$ -	2	$ 1,900.00
123	2-inch Curb Stop and Box	EA	$ 875.00	2	$ 1,750.00	0	$ -	2	$ 1,750.00
124	2-inch Type K Copper Water Service (City Side)	LF	$ 75.00	60	$ 4,500.00	0	$ -	60	$ 4,500.00
125	Water Service - Interior Plumbing Connection	EA	$ 450.00	37	$ 16,650.00	0	$ -	37	$ 16,650.00
126	Plumbing Permit Application and Administration	EA	$ 150.00	37	$ 5,550.00	0	$ -	37	$ 5,550.00
127	Plumbing Permit Application Fee	EA	$ 100.00	37	$ 3,700.00	0	$ -	37	$ 3,700.00
128	6" x 12" Grade Offset Adapter	EA	$ 750.00	17	$ 12,750.00	0	$ -	17	$ 12,750.00
129	6-inch Ductile Iron Hydrant Lead	LF	$ 65.00	180	$ 11,700.00	0	$ -	180	$ 11,700.00
130	Fire Hydrant Assembly	EA	$ 7,650.00	17	$ 130,050.00	0	$ -	17	$ 130,050.00
131	Salvage Existing Hydrant	EA	$ 150.00	8	$ 1,200.00	0	$ -	8	$ 1,200.00
132	12-inch HDPE/PVC Storm Sewer	LF	$ 50.00	30	$ 1,500.00	0	$ -	30	$ 1,500.00
133	12-inch RCP Storm Sewer	LF	$ 54.00	122	$ 6,588.00	0	$ -	122	$ 6,588.00
134	24-inch RCP Storm Sewer	LF	$ 85.00	36	$ 3,060.00	0	$ -	36	$ 3,060.00
135	36-inch RCP Storm Sewer	LF	$ 155.00	10	$ 1,550.00	0	$ -	10	$ 1,550.00
136	42-inch RCP Storm Sewer	LF	$ 236.00	16	$ 3,776.00	0	$ -	16	$ 3,776.00
137	Storm Sewer Catch Basin 2' Dia.	EA	$ 3,000.00	4	$ 12,000.00	0	$ -	4	$ 12,000.00
138	Storm Sewer Manhole 4' Dia.	EA	$ 5,100.00	5	$ 25,500.00	0	$ -	5	$ 25,500.00
139	Storm Sewer Manhole 6' Dia	EA	$ 8,100.00	1	$ 8,100.00	0	$ -	1	$ 8,100.00
140	Connect to Ex Storm Sewer	EA	$ 400.00	10	$ 4,000.00	0	$ -	10	$ 4,000.00
141	Drainage Structure Cover & Adjust	EA	$ 200.00	10	$ 2,000.00	0	$ -	10	$ 2,000.00
142	Video Taping Sanitary, Storm, and Culvert Pipe	LF	$ 3.50	214	$ 749.00	0	$ -	214	$ 749.00
143	Excavation, Earth	CY	$ 11.00	3055	$ 33,605.00	0	$ -	3055	$ 33,605.00
144	Excavation, Rock	CY	$ 10.00	415	$ 4,150.00	0	$ -	415	$ 4,150.00
145	Subgrade Undercutting, Special	CY	$ 15.00	1100	$ 16,500.00	0	$ -	1100	$ 16,500.00
146	Special Backfill	CY	$ 12.00	50	$ 600.00	0	$ -	50	$ 600.00
147	Stone Refill (MDOT 6A)	CY	$ 20.00	50	$ 1,000.00	0	$ -	50	$ 1,000.00

Change Order #1 - City of Ironwood 240618: Phase 5B Water & Sewer Upgrades			Submitted Bid Jake's Excavating & Landscaping, LLC			Change Order #1		Revised Contract (Through Change Order No. 1)	
Item	Description	Units	Unit	Quantity	Total	Quantity	Total	Quantity	Total
148	Curb and Gutter, Rem	LF	$ 2.00	7915	$ 15,830.00	0	$ -	7915	$ 15,830.00
149	Concrete Sidewalk & Driveway, Rem	SY	$ 4.00	2560	$ 10,240.00	0	$ -	2560	$ 10,240.00
150	Concrete Pavement, Rem	SY	$ 5.00	340	$ 1,700.00	0	$ -	340	$ 1,700.00
151	HMA Surface, Rem	SY	$ 1.75	14183	$ 24,820.25	0	$ -	14183	$ 24,820.25
152	Utility Exploration	EA	$ 150.00	20	$ 3,000.00	0	$ -	20	$ 3,000.00
153	Subbase, CIP	CY	$ 13.00	973	$ 12,649.00	0	$ -	973	$ 12,649.00
154	Aggregate Base, 4 inch	SY	$ 2.50	1640	$ 4,100.00	0	$ -	1640	$ 4,100.00
155	Aggregate Base, 9 inch	SY	$ 5.25	13385	$ 70,271.25	0	$ -	13385	$ 70,271.25
156	Aggregate Surface Cse, 9 inch	SY	$ 10.00	68	$ 680.00	0	$ -	68	$ 680.00
157	HMA (4EML, Leveling, 220#/SYD)	SY	$ 10.85	13385	$ 145,227.25	0	$ -	13385	$ 145,227.25
158	HMA (5EML, Surface, 165#/SYD)	SY	$ 8.20	13385	$ 109,757.00	0	$ -	13385	$ 109,757.00
159	HMA (5EML, Driveway, 275#/SYD)	SY	$ 28.00	596	$ 16,688.00	0	$ -	596	$ 16,688.00
160	Curb and Gutter, Conc, Det F-2	LF	$ 22.75	6224	$ 141,596.00	0	$ -	6224	$ 141,596.00
161	Curb and Gutter, Conc, Det F-4	LF	$ 22.75	640	$ 14,560.00	0	$ -	640	$ 14,560.00
162	Curb Slp, HMA	LF	$ 5.00	25	$ 125.00	0	$ -	25	$ 125.00
163	Sidewalk, Concrete, 4 inch	SF	$ 7.00	16160	$ 113,120.00	0	$ -	16160	$ 113,120.00
164	Driveway, Nonreinf Conc, 6 inch	SY	$ 75.00	730	$ 54,750.00	0	$ -	730	$ 54,750.00
165	Detectable Warning Surface	LF	$ 130.00	55	$ 7,150.00	0	$ -	55	$ 7,150.00
166	Pavt Mrkg, Waterborne, 4 inch, Yellow	LF	$ 0.90	2900	$ 2,610.00	0	$ -	2900	$ 2,610.00
167	Pavt Mrkg, Polyurea, 6 inch, Crosswalk	LF	$ 4.00	914	$ 3,656.00	0	$ -	914	$ 3,656.00
168	Pavt Mrkg, Polyurea, 18 inch, Stop Bar	LF	$ 16.00	141	$ 2,256.00	0	$ -	141	$ 2,256.00
169	Slope Restoration, Type A	SY	$ 2.10	4550	$ 9,555.00	0	$ -	4550	$ 9,555.00
170	Insulation Board, 2-Inch	SF	$ 2.00	1000	$ 2,000.00	0	$ -	1000	$ 2,000.00
171	Tree Removal, 12 inch or larger	EA	$ 500.00	8	$ 4,000.00	0	$ -	8	$ 4,000.00
172	Traffic Control	LS	$ 41,000.00	0.5	$ 20,500.00	0	$ -	0.5	$ 20,500.00
173	Erosion Control, Inlet Protection, Fabric Drop	EA	$ 50.00	20	$ 1,000.00	0	$ -	20	$ 1,000.00
USDA RD - Sanitary Sewer System Upgrades									
201	8" SDR 35 PVC Gravity Sewer	LF	$ 58.00	3647	$ 211,526.00	4012	$ 232,696.00	7659	$ 444,222.00
202	12" SDR 35 PVC Gravity Sewer	LF	$ 72.00	1201	$ 86,472.00	614	$ 44,208.00	1815	$ 130,680.00
203	15" SDR 35 PVC Gravity Sewer	LF	$ 93.20	508	$ 47,345.60	0	$ -	508	$ 47,345.60
204	18" SDR 35 PVC Gravity Sewer	LF	$ 103.25	1314	$ 135,670.50	0	$ -	1314	$ 135,670.50
205	24" SDR 35 PVC Gravity Sewer	LF	$ 300.00	5	$ 1,500.00	0	$ -	5	$ 1,500.00
206	4' Dia. Stand. San MH & Cover	VF	$ 782.20	325.9	$ 254,918.98	47.2	$ 36,919.84	373.1	$ 291,838.82
207	Sanitary Sewer Drop MH Connection - New MH	EA	$ 8,000.00	1	$ 8,000.00	0	$ -	1	$ 8,000.00
208	Sanitary Sewer Drop MH Connection - Existing MH	EA	$ 2,500.00	1	$ 2,500.00	0	$ -	1	$ 2,500.00
209	Sanitary Manhole Cover and Adjust	EA	$ 250.00	5	$ 1,250.00	0	$ -	5	$ 1,250.00
210	Connect to Ex Sanitary Sewer MH	EA	$ 750.00	5	$ 3,750.00	2	$ 1,500.00	7	$ 5,250.00
211	Connect to Ex Sanitary Sewer Main	EA	$ 350.00	46	$ 16,100.00	0	$ -	46	$ 16,100.00
212	8"x6" Sanitary Sewer Wye	EA	$ 225.00	71	$ 15,975.00	117	$ 26,325.00	188	$ 42,300.00
213	12"x6" Sanitary Sewer Wye	EA	$ 475.00	19	$ 9,025.00	19	$ 9,025.00	38	$ 18,050.00
214	15"x6" Sanitary Sewer Wye	EA	$ 825.00	8	$ 6,600.00	0	$ -	8	$ 6,600.00
215	18"x6" Sanitary Sewer Wye	EA	$ 1,450.00	28	$ 40,600.00	0	$ -	28	$ 40,600.00
216	6" SDR 35 PVC Sewer Lateral	LF	$ 37.00	3775	$ 139,675.00	4090	$ 151,330.00	7865	$ 291,005.00
217	12-inch HDPE/PVC Storm Sewer	LF	$ 55.00	30	$ 1,650.00	0	$ -	30	$ 1,650.00
218	12-inch RCP Storm Sewer	LF	$ 54.00	49	$ 2,646.00	0	$ -	49	$ 2,646.00
219	24-inch RCP Storm Sewer	LF	$ 85.00	36	$ 3,060.00	0	$ -	36	$ 3,060.00
220	36-inch RCP Storm Sewer	LF	$ 155.00	10	$ 1,550.00	0	$ -	10	$ 1,550.00
221	42-inch RCP Storm Sewer	LF	$ 236.00	16	$ 3,776.00	0	$ -	16	$ 3,776.00

Change Order #1 - City of Ironwood 240618: Phase 5B Water & Sewer Upgrades			Submitted Bid Jake's Excavating & Landscaping, LLC			Change Order #1		Revised Contract (Through Change Order No. 1)	
Item	Description	Units	Unit	Quantity	Total	Quantity	Total	Quantity	Total
222	Storm Sewer Catch Basin 2' Dia.	EA	$ 3,000.00	1	$ 3,000.00	0	$ -	1	$ 3,000.00
223	Storm Sewer Manhole 4' Dia.	EA	$ 5,100.00	1	$ 5,100.00	0	$ -	1	$ 5,100.00
224	Connect to Ex Storm Sewer	EA	$ 500.00	4	$ 2,000.00	0	$ -	4	$ 2,000.00
225	Drainage Structure Cover & Adjust	EA	$ 200.00	10	$ 2,000.00	0	$ -	10	$ 2,000.00
226	Video Taping Sanitary, Storm, and Culvert Pipe	LF	$ 3.50	6816	$ 23,856.00	4626	$ 16,191.00	11442	$ 40,047.00
227	Non-Structural Flowable Fill	CY	$ 135.00	50	$ 6,750.00	75	$ 10,125.00	125	$ 16,875.00
228	Excavation, Earth	CY	$ 11.00	3355	$ 36,905.00	2200	$ 24,200.00	5555	$ 61,105.00
229	Excavation, Rock	CY	$ 10.00	415	$ 4,150.00	500	$ 5,000.00	915	$ 9,150.00
230	Subgrade Undercutting, Special	CY	$ 15.00	750	$ 11,250.00	1000	$ 15,000.00	1750	$ 26,250.00
231	Special Backfill	CY	$ 12.00	50	$ 600.00	800	$ 9,600.00	850	$ 10,200.00
232	Stone Refill (MDOT 6A)	CY	$ 20.00	50	$ 1,000.00	150	$ 3,000.00	200	$ 4,000.00
233	Curb and Gutter, Rem	LF	$ 2.00	3955	$ 7,910.00	6075	$ 12,150.00	10030	$ 20,060.00
234	Concrete Sidewalk & Driveway, Rem	SY	$ 4.00	2070	$ 8,280.00	190	$ 760.00	2260	$ 9,040.00
235	Concrete Pavement, Rem	SY	$ 5.00	680	$ 3,400.00	0	$ -	680	$ 3,400.00
236	HMA Surface, Rem	SY	$ 2.00	10031	$ 20,062.00	8897	$ 17,794.00	18928	$ 37,856.00
237	Utility Exploration	EA	$ 100.00	30	$ 3,000.00	20	$ 2,000.00	50	$ 5,000.00
238	Subbase, CIP	CY	$ 12.00	125	$ 1,500.00	255	$ 3,060.00	380	$ 4,560.00
239	Aggregate Base, 4 inch	SY	$ 2.50	1170	$ 2,925.00	1680	$ 4,200.00	2850	$ 7,125.00
240	Aggregate Base, 9 inch	SY	$ 5.25	9579	$ 50,289.75	7625	$ 40,031.25	17204	$ 90,321.00
241	Aggregate Surface Cse, 9 inch	SY	$ 10.00	14	$ 140.00	50	$ 500.00	64	$ 640.00
242	HMA (4EML, Leveling, 220#/syd)	SY	$ 10.85	9579	$ 103,932.15	7625	$ 82,731.25	17204	$ 186,663.40
243	HMA (5EML, Surface, 165#/syd)	SY	$ 8.20	9579	$ 78,547.80	7625	$ 62,525.00	17204	$ 141,072.80
244	HMA (5EML, Driveway, 275#/syd)	SY	$ 28.00	243	$ 6,804.00	998	$ 27,944.00	1241	$ 34,748.00
245	Curb and Gutter, Conc, Det F-2	LF	$ 23.00	3920	$ 90,160.00	6810	$ 156,630.00	10730	$ 246,790.00
246	Curb and Gutter, Conc, Det F-4	LF	$ 23.00	790	$ 18,170.00	430	$ 9,890.00	1220	$ 28,060.00
247	Curb Slp, HMA	LF	$ 5.00	190	$ 950.00	0	$ -	190	$ 950.00
248	Sidewalk, Concrete, 4 inch	SF	$ 7.00	10605	$ 74,235.00	12400	$ 86,800.00	23005	$ 161,035.00
249	Driveway, Nonreinf Conc, 6 inch	SY	$ 75.00	836	$ 62,700.00	379	$ 28,425.00	1215	$ 91,125.00
250	Detectable Warning Surface	LF	$ 130.00	35	$ 4,550.00	25	$ 3,250.00	60	$ 7,800.00
251	Slope Restoration, Type A	SY	$ 2.25	4305	$ 9,686.25	2800	$ 6,300.00	7105	$ 15,986.25
252	Insulation Board, 2-Inch	SF	$ 2.00	500	$ 1,000.00	400	$ 800.00	900	$ 1,800.00
253	Tree Removal, 12 inch or larger	EA	$ 500.00	6	$ 3,000.00	18	$ 9,000.00	24	$ 12,000.00
254	Traffic Control	LS	$ 41,000.00	0.5	$ 20,500.00	0	$ -	0.5	$ 20,500.00
255	Erosion Control, Inlet Protection, Fabric Drop	EA	$ 60.00	16	$ 960.00	0	$ -	16	$ 960.00
256	Mobilization	LSUM	$ 55,000.00	0	$ -	1	$ 55,000.00	1	$ 55,000.00
257	8-Inch Sanitary Sewer Main CIPP Lining	LF	$ 85.00	0	$ -	400	$ 34,000.00	400	$ 34,000.00
258	10-Inch Sanitary Sewer Main CIPP Lining	LF	$ 90.00	0	$ -	100	$ 9,000.00	100	$ 9,000.00
259	12-Inch Sanitary Sewer Main CIPP Lining	LF	$ 100.00	0	$ -	300	$ 30,000.00	300	$ 30,000.00
260	15-Inch Sanitary Sewer Main CIPP Lining	LF	$ 110.00	0	$ -	100	$ 11,000.00	100	$ 11,000.00
261	18-Inch Sanitary Sewer Main CIPP Lining	LF	$ 200.00	0	$ -	2050	$ 410,000.00	2050	$ 410,000.00
262	24-Inch Sanitary Sewer Main CIPP Lining	LF	$ 225.00	0	$ -	1200	$ 270,000.00	1200	$ 270,000.00
263	Removal of Protruding Tap, 8-Inch thru 24-Inch	EA	$ 500.00	0	$ -	70	$ 35,000.00	70	$ 35,000.00
264	Re-Instatement Lateral, 8-Inch thru 15-Inch	EA	$ 500.00	0	$ -	26	$ 13,000.00	26	$ 13,000.00
265	Re-Instatement Lateral, 18-Inch thru 24-Inch	EA	$ 900.00	0	$ -	50	$ 45,000.00	50	$ 45,000.00
City of Ironwood - Restoration Items									
301	Curb and Gutter, Rem (City)	LF	$ 2.50	875	$ 2,187.50	-465	$ (1,162.50)	410	$ 1,025.00
302	Concrete Sidewalk & Driveway, Rem (City)	SY	$ 4.00	180	$ 720.00	0	$ -	180	$ 720.00
303	HMA Surface, Rem (City)	SY	$ 2.50	729	$ 1,822.50	-276	$ (690.00)	453	$ 1,132.50

Change Order #1 - City of Ironwood 240618: Phase 5B Water & Sewer Upgrades			Submitted Bid Jake's Excavating & Landscaping, LLC			Change Order #1		Revised Contract (Through Change Order No. 1)	
Item	Description	Units	Unit	Quantity	Total	Quantity	Total	Quantity	Total
304	Subbase, CIP (City)	CY	$ 13.00	278	$ 3,614.00	-3	$ (39.00)	275	$ 3,575.00
305	Aggregate Base, 4 inch (City)	SY	$ 2.75	100	$ 275.00	100	$ 275.00	200	$ 550.00
306	Aggregate Base, 9 inch (City)	SY	$ 5.50	827	$ 4,548.50	-42	$ (231.00)	785	$ 4,317.50
307	HMA (4EML, Leveling, 220#/SYD) (City)	SY	$ 10.90	827	$ 9,014.30	-42	$ (457.80)	785	$ 8,556.50
308	HMA (5EML, Surface, 165#/SYD) (City)	SY	$ 8.20	827	$ 6,781.40	-42	$ (344.40)	785	$ 6,437.00
309	HMA (5EML, Driveway, 275#/SYD) (City)	SY	$ 28.00	100	$ 2,800.00	0	$ -	100	$ 2,800.00
310	Curb Slp, HMA	LF	$ 10.00	10	$ 100.00	0	$ -	10	$ 100.00
311	Sidewalk, Concrete, 4 inch (City)	SF	$ 7.00	1315	$ 9,205.00	0	$ -	1315	$ 9,205.00
312	Driveway, Nonreinf Conc, 6 inch (City)	SY	$ 75.00	15	$ 1,125.00	0	$ -	15	$ 1,125.00
313	Detectable Warning Surface (City)	LF	$ 130.00	10	$ 1,300.00	0	$ -	10	$ 1,300.00
314	Slope Restoration, Type A (City)	SY	$ 5.00	300	$ 1,500.00	-100	$ (500.00)	200	$ 1,000.00
				Total	**$ 3,878,247.98**	**Total**	**$ 2,048,760.64**	**Total**	**$ 5,927,008.62**

COLEMAN ENGINEERING COMPANY
615 CIRCLE DRIVE • IRON MOUNTAIN, MI 49801 • PHONE: 906-774-1440
200 EAST AYER STREET • IRONWOOD, MI 49938 • PHONE: 906-932-5048

PLOT BY: MATONN

SHEET NAME:
SEWER LINING AREAS

PROJECT:
CITY OF IRONWOOD
PHASE 5

GIS DRAWING: Phase 5 Sewer Lining		
DRAWN BY: NJM	CHECKED BY: MPG	GIS PROJECT: 231105
SURVEYED BY: N/A	DATE: 5/8/2025	

1
DRAWING NO.

FILE NAME: P:\23000\23105\IRONWOOD_CITY_OF-PHASE_5_DWSRF\231105\IRONWOOD_CITY_OF-PHASE_5_DWSRF.APRX

PLOT DATE: 5/8/2025 12:01 PM

Sewer Lining				
Location	size	length	Unit Price	Description
Lake	8"	390	$85	Curry to west
	10"	300	$90	
Lawrence	12"	290	$100	US2 to Francis
	15"	300	$110	
N of Lake Ave	18"	600	$200	Lake Ave to Copper Cup
Tennis Courts	24"	1150	$225	From Lowell to Hemlock

- Mobilization = $55,000 - 1 LS

-Removal of protruding tap 8" - 24" (unknown) $500/each

-Reinstatement of sewer laterals for active taps in line 8" - 15" (unknown) $500/each

-Reinstatement of sewer laterals, for active taps in line 18" - 24" (unknown) $900/each

SECTION 01025
MEASUREMENT AND PAYMENT

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Measurement and payment criteria applicable to the Work performed under a unit price payment method.

B. Defect assessment and non-payment for rejected work.

C. Work item descriptions.

1.02 AUTHORITY

A. Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.

B. Take all measurements and compute quantities. The Engineer and Owner will verify measurements and quantities.

1.03 UNIT QUANTITIES SPECIFIED

A. Quantities indicated in the Bid Form are for bidding and contract purposes only. Actual quantities and measurements supplied or placed in the Work and verified by the Engineer will determine payment.

B. If the actual Work requires more or fewer quantities than those quantities indicated, provide the required quantities at the unit sum/prices contracted.

C. Any work not listed in the proposal but shown on the plans or reasonably expected for provision of a functional system shall be considered to be incidental to the work items.

1.04 MEASUREMENT OF QUANTITIES

A. Measurement by Weight: Measured by the pound or ton determined from delivery tickets from approved scales.

B. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness, compacted in place (CIP) or as noted on bid schedule.

C. Measurement by Area: Measured by square dimension using mean length and width or radius.

D. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord, from center to center of appurtenance.

E. Stipulated Sum/Price per each Measurement: Items measured by per each as appropriate, as a completed item or unit of the Work.

1.05 PAYMENT

A. Payment Includes: Full compensation to furnish all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.

B. Final payment and final contract amount for Work governed by unit prices will be made on the basis of the actual measurements and quantities accepted by the Architect/Engineer multiplied by the unit sum/price for Work which is incorporated in or made necessary by the Work.

C. Dewatering of the work area shall be incidental to the individual work items requiring dewatering work.

D. Saw cutting of existing bituminous or concrete pavements will be considered incidental to the associated work item.

E. Mobilization shall be incidental to the individual work items, unless otherwise noted.

F. Payment for water required as part of the project shall be incidental to the individual work items, unless otherwise noted.

G. Payment for Traffic Control is considered incidental to the associated work items unless otherwise noted.

1.06 DEFECT ASSESSMENT

A. Replace the Work, or portions of the Work, not conforming to specified requirements.

B. If, in the opinion of the Engineer, it is not practical to remove and replace the Work, the Engineer will direct one of the following remedies:

1. The defective Work may remain, but the unit price will be adjusted to a new price at the discretion of the Engineer and approval of the Owner.

2. The defective Work will be partially repaired to the instructions of the Engineer, and the unit sum/price will be adjusted to a new sum/price at the discretion of the Engineer and approval of the Owner.

C. The authority of the Engineer and Owner to assess the defect and identify payment adjustment is final.

1.07 BID ITEMS

A. Bid Item Descriptions

256. Mobilization

a. Measurement will be by the unit lump sum.

b. Payment will be in accordance with the latest version of the MDOT Standard Specifications for Construction.

257-262. ____-Inch Sanitary Sewer Main CIPP Lining

a. Measurement will be by linear foot measured horizontally along centerline of mainline CIPP liner from center of manhole to center of manhole.

b. Payment shall include Pre-Lining cleaning, lining of external drop manhole connections, Pre-Lining CCTV inspection, Post-Lining CCTV inspection, weir readings, mandrel testing, all required testing, bypass pumping, permanent restoration, labor, materials and equipment necessary to install liner as specified. No payment shall be made until Post-Lining CCTV video inspection is provided to the City and the Engineer in a digital format.

263. Removal of Protruding Tap, 8-Inch thru 24-Inch

a. Measurement will be by the unit each for removal of protruding taps and laterals.

b. Payment shall include reaming intruding taps, Pre-Lining CCTV inspection, Post-Lining CCTV inspection, bypass pumping, permanent restoration, labor, materials and equipment necessary to remove protruding taps. No payment shall be made until Post-Lining CCTV video inspection is provided to the City and the Engineer in a digital format.

264-265. Re-Instatement Lateral, ____-Inch thru ____-Inch

a. Measurement will be by each for laterals reopened internally after mainline

CIPP Liner is installed.

b. Payment shall include CCTV inspection, labor, materials, equipment, and testing necessary to re-instate (open) service after main lining.

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

SECTION 02534
SEWER MAINS AND LATERAL REHABILITATION BY LINING

PART 1 – GENERAL

1.01 SUMMARY

A. This section includes requirements for the rehabilitation and reconstruction of sanitary and/or storm sewer mains and laterals by the Cured in Place Pipe (CIPP) method.

1.02 RELATED WORK

A. Section 02530 – Sanitary Sewer

B. Section 02531 – Sanitary Sewer Manholes

C. Section 02532 – Sanitary Sewer Service Lines

~~D. Section 02630 – Storm Sewerage Systems~~

E. Section 02533 – Sewer Manhole Rehabilitation

1.03 REFERENCES

A. ASTM C581 – Standard Practice for Determining Chemical Resistance of Thermosetting Resins Used in Glass Fiber Reinforced Structures, Intended for Liquid Service.

B. ASTM D543 – Standard Practice for Evaluating the Resistance of Plastics to Chemical Reagents

C. ASTM D790 – Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials

D. ASTM D5813 – Standard Specification for Cured-In-Place Thermosetting Resin Sewer Pipe

E. ASTM F1216 – Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube

F. ASTM F1743 – Standard Practice for Rehabilitation of Existing Pipelines and Conduits by Pulled-in-Place Installation of Cured-in-Place Thermosetting Resin Pipe (CIPP)

G. ASTM F2019 – Standard Practice for Rehabilitation of Existing Pipelines and Conduits by Pulled-in-Place Installation of Glass Reinforced Plastic Cured-in-Place (GRP-CIPP) Using the UV-Light Curing Method

H. ASTM F2561 – Standard Practice for Rehabilitation of a Sewer Service Lateral and Its Connection to the Main Using a One-Piece Main and Lateral Cured-in-Place Liner

1.04 SUBMITTALS

A. Submit the following under Section 01300 – Submittals.
   1. Catalog data showing manufacturer's clarifications and updates, ASTM references, material composition, specifications, physical properties and chemical resistance of liner.
   2. Manufacturer's recommended procedures for handling, storing, repairing, and installing materials selected.
   3. Method of construction.
      a. Access manholes and site locations.
      b. Work dimensions.
      c. Existing utilities
      d. Size of working area
      e. Impacted portions of existing sewer.
      f. Site access points.
      g. Bypass pumping plan to include how the existing flows will be adequately maintained throughout construction, including provisions for wet weather flow. Bypass pumping plan shall also include a description of Contractor's approach to managing any flow from any live laterals.
   4. Method of reinstatement and sealing of lateral-mainline interface including, but not limited to internal inspection equipment, and equipment used for reinstatement and sealing of lateral-mainline interface.
      a. Air testing not required for lateral-mainline interface seal installed utilizing the Janssen resin injection system or a full wrap profile, i.e., LMK T-Liner or BLD SCS +L that extends from sewer main to sewer house connection cleanout.
   5. Method of proposed point repair with details.
      a. Termination or transition details between cured in place point repair and existing sewer.

6. Certified statement from manufacturer approved installer of their system.
    a. Include certificates of training for each crewmember involved in installation process.
7. Television inspection reports, color videos, CD-ROMs, and electronic CIMS 2000 downloads made before and following mainline CIPP, and original copies of digitally recorded inspections furnished to Engineer within 10 days.
8. Curing Logs: Include liner manufacturer recommended curing citations for each submittal. Store electronically on data logger. Submit printed copy with Post CCTV.
    a. Heat cured liners.
        (1) Record temperature (degrees Fahrenheit) and pressure (psi) readings per unit of time collected during liner installation and curing.
    b. UV cured liners.
        (1) Record the curing speed (feet per minute), light source (number of lamps, intensity and wattage), inner air pressure(psi) and curing temperatures (degree Fahrenheit) per unit time over length of liner.

1.05 DEFINITIONS

A. Mainline: Sewer main.

B. Lateral: Service pipe from property line to mainline.

C. Internal Spot Repair: Installation of mechanical seal liner into existing pipe.

D. Lateral-Mainline Interface: Lateral connection to mainline.

E. Lateral-Mainline Interface Seal: Watertight seal between lateral and mainline.

F. Re-instate Lateral-Mainline Interface: Cutting open or trimming opening in mainline liner to allow flow from lateral to enter main.

1.06 ACCEPTANCE

A. Follow national standards and as specified herein.

B. Personnel Involved in Installation of Pipe Liner:
    1. Certified by liner manufacturer successful completion of training in handling, insertion, trimming, reinstatement of laterals and finishing pipe liner.

C. Engineer:
   1. May inspect and test liner or its materials at factory, before delivery to site or while in storage.
   2. May inspect factory materials, wet-out procedure, and loading.

D. Internally inspect host pipe prior to lining and post-lining.

E. Commercially Proven Mainline and Lateral Products:
   1. Minimum 500,000 linear feet mainline and 3,500 linear feet laterals successfully installed and documented.

F. Commercially Proven Lateral-Mainline Interface Product:
   1. Minimum 1,000 lateral-mainline interface services successfully installed and documented.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Protect, store, and handle materials during transportation and delivery, while stored on-site, and during installation following manufacturer's recommendations.

B. Continuously monitor liner materials during transport and storage with temperature recorder and data storage or strip printer.
   1. Furnish Engineer with recorder readings before installation.
   2. Material exposed to temperatures outside of manufacturer’s limits: rejected.

C. Material found to be defective or damaged due to manufacture or shipment:
   1. When Engineer deems repairable: Repair following manufacturer’s recommendations.
   2. When Engineer deems not repairable: Rejected, removed from Contract site, and replaced under Engineer’s direction.
   3. Repair or replacement of defective or damaged material will be at no additional cost to Owner.

PART 2 – PRODUCTS

2.01 MATERIALS

A. Mainline (CIPP): Liner tube material and resin material proposed for fully deteriorated pipe condition.
   1. Wet-out liner material in controlled factory environment.

2. Resin-Catalyst-Colorant-Additive Mixture:
    a. Tested to certify liner material follows design standards before wet out.
    b. Quantity of resin used for tube impregnation: Sufficient to fill volume of air voids in felt tube with additional 10 to 15 percent allowances for polymerization shrinkage and loss of resin through cracks and irregularities in original pipe wall.
        (1) Heat cured liners, required amount of resin mixture: Vacuumed into felt liner material.
            (a) Point of vacuum: No further than 25 feet from point of initial resin introduction to ensure thorough resin saturation throughout length of felt tube.
            (b) Vacuum point: No further than 75 feet from leading edge of resin after vacuum in tube is established.
        (2) UV cured liners, fiberglass liner: Saturated with appropriate resin using resin bath to minimize air entrapment and delivered to site ready for installation.
            (a) Vacuum methods: As recommended by the manufacturer.
        (3) Leading edge of resin slug:
            (a) As near to perpendicular as possible.
            (b) Wet-out liner is fed onto conveyor system and through roller gap set following design (minimum 2.3 x lining thickness in mm).
                i. Ensure uniform distribution of resin throughout pre-cured liner.
                ii. Pack pre-cured liner on ice within automatically monitored refrigerated truck with ice bags between pre-cured liner folds.
                iii. Alternate resin impregnation method: Proven, inspected, and with Engineer's approval.
    c. Colorant: Dark Yellow.
        (1) Add to catalyst before mixing catalyst with resin.
        (2) Pigmentation: Produces color that is clearly distinguishable from dry felt.
        (3) Wall color of interior pipe surface of CIPP after installation: Light reflective color to allow clear detailed examination with closed circuit television inspection equipment.
3. Additives for resin enhancement, viscosity control, safety, chemical resistance, physical resistance, or extending shelf life are permitted with Engineer's approval.

4. Liner Tube.
    a. Felt Tubes.
        (1) Seams as described herein.
            (a) Liner to run continuously from manhole to manhole.
            (b) Does not use overlapping section of liner felt tube or longitudinal seams that cause lumps in final product.
        (2) Impermeable, flexible membrane outside layer that will contain resin and monitor resin saturation at factory during resin impregnation procedure.
    b. Fiberglass Tubes.
        (1) Consist of flexible fiberglass tubes made spirally or by overlapping layers.
        (2) Include exterior and interior film that contains resin in tube, are impervious to airborne styrene and serves as ultraviolet blocking material.
            (a) Liner to run continuously from manhole to manhole.
            (b) Does not use overlapping section of liner felt tube or longitudinal seams that cause lumps in final product.
5. Cured Liner: 50-year life span.
    a. Chemically resistant to internal exposure to sewage containing small quantities of hydrogen sulfide, carbon dioxide, methane, mercaptans, kerosene, moisture, and diluted sulfuric acid.
    b. Chemically and physically resistant to external exposure of soil bacteria, moisture, roots, and chemical attack, that may be due to material in surrounding ground.
6. Approved Manufacturers:
    a. Inliner Technologies, LLC.
    b. Insituform Technologies Inc.
    c. National Liner.
    d. Novapipe.
    e. Premier Pipe.
    f. Reline America Alphaliner.
    g. Saertex MultiCom.
    h. LightStream LP, StreamLiner UV Liner.
    i. Perma-Lateral by Perma-Liner Industries, LLC.
    j. FerraTex.
    k. Or Approved Equal.

B. Lateral CIPP Renewal Processes:
   1. ASTM F2561 or ASTM F1216 following mainline CIPP wet-out requirements.

C. Lateral-Mainline Interface Seal:
   1. ASTM F2561-06 following mainline CIPP wet-out requirements.
      a. T Liner.
         (1) Approved manufacturers.
            (1) LMK Enterprises Inc.
            (2) BLD Services, LLC.
            (3) Or Approved Equal.
   2. Resin injection process following manufacturer's recommendations.
      a. Injected resin without the use of grout.
         (1) Approved manufacturers:
            (1) Janssen Process Company.
            (2) ProKASRO.
            (3) Or Approved Equal.

D. Internal Spot Repair: Follow ASTM F1216 and as noted herein.
   1. Tube fabricated from resin impregnated fiberglass/carbon patch sheet to a size which, when installed will closely approximate the internal circumference of the conduit specified.
      a. Make allowance for changes in circumference of the conduit by free overlap during inflation of the tube.
   2. Minimum Length: Determined to effectively span the designated defective section, plus one foot at either end.
      a. Verify lengths in field before pulling tube into pipe.
   3. Thickness of the mechanical seal liner within pipe: Designed to conform to actual field conditions.
   4. Approved Manufacturers:
      a. Easy-Liner.
      b. LMK Enterprises.
      c. EPROS Drain Packer Repair System.
      d. Pipe Patch by Source 1 Environmental, LLC.
      e. Infrastructure Point Repair System.
      f. Or Approved Equal.

E. Cleanout Installation.
   1. Vacuum excavated vertical tee pipe.
      a. Four-inch (4-inch) diameter vertical pipe attached with watertight seal.
      b. Approved manufacturers.
         (1) LMK Vac-a-Tee.
         (2) Jed Saddle Clean-out.
         (3) Or Approved Equal.

F. Miscellaneous Materials.

1. Finishing material for transitioning, filling, and sealing liners entering manholes.
    a. Chemically inert, non-shrinking, and able to cure in presence of water.
    b. Material: Quickset H_2S resistant, epoxy resin or mortar.
    c. Design mix: Minimum 500-psi compressive strength in 28 days.
        (1) Additives may be added to improve flow properties when minimum compressive strength requirements are met, with Engineer's approval.
    d. Pre-lining lateral installations: Use PVC tees with full circle seal couplers on either side of PVC tee.
        (1) PVC Tee: Stainless steel sleeve inside lateral tap to protect tap during reinstatement.
    e. Pre-lining external point repairs: Use PVC pipe with non-shear seal couplers on either side of PVC pipe.
    f. Non-shear couplings: Capable of maintaining mainline alignment during mainline lining.
    g. Epoxy resin used to seal liner to manhole drop line: Compatible with liner.

G. CIPP Liner Calculations.

1. Layers of cured CIPP: Uniformly bonded.
    a. Structural Properties: Use deteriorated design condition, following design equations in appendix of ASTM F1216. If equation is less than minimum liner thickness noted on table below use minimum as noted.
        (1) Design Safety Factor: 2.0
        (2) Ovality: Two Percent (2%).
        (3) Live Load: H20 Highway.

Felt Liner & Ambient Temperature, Steam or Hot Water Cured CIPP	
Host Pipe Diameter	Minimum Liner Thickness
8-inch diameter	6 mm
10-inch diameter	6 mm
12-inch diameter	8 mm
15-inch diameter	10 mm
18-inch diameter	12 mm

Fiberglass Felt and Ultraviolet Cured CIPP	
Host Pipe Diameter	Minimum Liner Thickness
8-inch diameter	4 mm
10-inch diameter	4 mm
12-inch diameter	6 mm
15-inch diameter	6 mm
18-inch diameter	8 mm

2.02 SOURCE QUALITY CONTROL

A. Mainline Cured-In-Place Pipe (CIPP).

1. Document installation procedure following ASTM F1216, ASTM F1743 or ASTM F2019, as appropriate to insertion method, liner tube material, resin material, curing method and installation procedures, as specified herein, for Engineer's approval.
2. Submit 10 percent of lining coupon samples to independent third-party laboratory for testing with verification following ASTM F1216, Section 8 Inspection Practices or ASTM F2019, Table 1, as appropriate to liner tube and resin materials. Testing will include;
   a. Short Term Flexural (Bend) Properties.
   b. Tensile Properties.
   c. CIPP Wall Thickness.
3. Submit results from independent third-party laboratory for Engineer's approval.
   a. Correct rejected deficiencies at no additional cost to the Owner.
   b. Perform post-inspection CCTV recording following Section 402 of the latest version of the Michigan DOT Standard Specifications for Construction. The acceptability of lateral liner defects will be at Engineers discretion. Defect locations will factor into Engineers decision on acceptability.
   c. Liner Approved:
      (1) Free of wrinkles.
      (2) Continuous liner over length of reconstructed pipe.
      (3) No visible leaks.
      (4) Free of obstructions.
   d. Rejected: Correct deficiencies at no additional cost to the Owner.

B. Lateral Renewal Process.

1. Lateral Renewals by CIPP:
   a. Document installation procedure following manufacturer's recommendation, ASTM standards F1216 or F2561 and as specified herein for Engineer's approval.

b. Collect Mainline and Lateral Cured In-Place Lining (MLCIPL) samples for 10 percent of installed laterals and submit to independent third-party laboratory for testing with verification following ASTM F1216, Section 8 Recommended Inspection Practices.
   (1) Short –Term Flexural Properties.
   (2) MLCIPL Wall Thickness.

2. Rehabilitation of Lateral-Mainline Interface by Resin Injection Seal.
   a. Record and document installer's certificate of training number and manufacturer's batch identification number.
   b. Mark identification number on corresponding resin sample (5-to-6-ounce cubes) poured at start of each new batch at beginning of each day.
   c. Submit 10 percent of prepared samples to independent third-party laboratory for testing under Engineers direction.
      (1) If half of samples fail, additional 10 percent may be required to be tested.
   d. Record resin injection process with CCTV for Engineer's approval.
   e. Cure: Follow manufacturer's recommendation.
   f. Clearly see resin ring at lateral-mainline interface.
3. Submit results from independent third-party laboratory for Engineer's approval.
4. Perform post-inspection CCTV recording for Engineer's approval.
   a. Acceptability of lateral liner defects: Engineers discretion. Defect locations will factor into Engineers decision on acceptability.
   b. Approved:
      (1) Free of wrinkles.
      (2) Continuous liner over length of reconstructed pipe.
      (3) No visible leaks.
      (4) Free of obstructions.
   c. Rejected: Correct deficiencies at no additional cost to the Owner.

C. Lateral-Mainline Interface.
1. Rehabilitation of lateral-mainline interface by lining specified herein.
   a. Follow Mainline CIPP for sample submissions, reviews, results, and corrections.
2. Rehabilitation of lateral-mainline interface by resin injection seal.
   a. Record and document installer's certificate of training number and manufacturer's batch identification number.
   b. Mark identification number on corresponding resin sample (5-to-6-ounce cubes) poured at start of each new batch at beginning of each day.

c. Submit 10 percent of prepared samples to independent third-party laboratory for testing under Engineer's direction.
(1) If half of samples fail, additional 10 percent may be required to be tested.
d. Record resin injection process with CCTV for Engineer's approval.
e. Cure: Follow manufacturer's recommendations.
f. Clearly see resin ring at lateral-mainline interface.
3. Follow Mainline CIPP for review and correction process.

PART 3 – EXECUTION

3.01 TESTING

A. Follow Section 01430 and as directed by Engineer.

B. Post Installation Test.
1. Ensure materials installed follow specifications and test site is safe, accessible, ventilated and well lighted.

3.02 MAINLINE PREPARATION

A. Access: Through existing manholes.

B. CCTV Internal Inspection.
1. Perform after cleaning sewer: Follow Section 402 of the latest version of the Michigan DOT Standard Specification for Construction and as specified herein.
a. Pre-lining recordings: Indicate mainline is ready for lining.
b. Engineer approval of pre-lining recordings: Required prior to liner installation.
2. Pre-lining internal intruding tap and offset joint removal.
a. Remove, by internal process, intruding taps and offset joints that reduce internal diameter of liner by 10 percent or more.
b. Perform Pre-Lining external point repair if internal removal efforts fail to remove an obstruction.
3. Pre-lining Installation of External Point Repairs and Lateral Renewals following Section 02530 and specified herein.
a. Excavate and repair defects in host pipe, which could include intruding laterals and offset joints that cannot be repaired by internal means.
(1) PVC pipe external point repairs: Sized to match mainline interior diameter with equivalent exterior diameter for seal clamp to fit.

b. Remove sags and flow constrictions that reduce cross-sectional area of mainline more than 10 percent.
c. Remove trapped debris that jetting cannot remove.
d. Clear mainline of dropped joints, crushed or collapsed pipe, and other obstructions that interfere with installation, causes damage to inverted tube, or reduces capacity of sewer.
e. Perform lateral renewals that involve a new tap.
(1) PVC Tee Connection: Sized to match mainline and lateral interior diameter with equivalent exterior diameter for seal clamp to fit.

3.03 MAINLINE LINER INSTALLATION

A. Set up bypass pumping, if necessary, or turn off water to building with Engineers approval.
1. Water service shutdown will be reviewed by Engineer on case-by-case basis.

B. Method of Lining.
1. Invert tube by inversion: Follow ASTM F1216.
a. Erect scaffold or elevated platform at upstream or downstream access point.
b. Invert pre-cured tube using inversion elbow at bottom of manhole or inversion ring above ground with water pressure.
(1) Ensure tube is;
(a) Fully extended to termination point and expanded to inside pipe diameter with no annular space between liner and host pipe.
(b) Dimpled to show locations of service laterals needing restoration.
2. Pull-In Place: Follow ASTM 1743, F2019
a. Install slip sheet on bottom half of pipe prior to liner insertion. Pull liner into place with constant tension winch capable of recording strain used during insertion.
b. Use end plugs to cap each end of liner. Both plugs and liner restrained during pressurization of line.
c. Measure laterals for reinstatement.
3. Use hydrophilic water stop around exterior of liner material at liner termination in each manhole to prevent passage of groundwater infiltration past liner termination, regardless of insertion methodology used.
4. Other methods of installation of CIPP lining or curing are acceptable; provided manufacturer and installer demonstrate they meet Quality Assurance requirements specified herein and obtain Engineers approval.

C. Install and cure resin impregnated tube into liner: Follow manufacturer's recommendations and as specified herein.
   1. Protect tube and lining material from damage during installation.
   2. Insert tube without twisting, cutting, tearing, separating, kinking, gouging, overstressing, resin loss, or double-ups.
   3. Engineer may request installed tube be retrieved for inspection.
   4. If tube is damaged during removal, repair tube to Engineer's approval or replace damaged tube with new tube at no cost to the Owner.

C. Loss or discharge of resin, other lining materials, or by-products downstream is not permitted.
   1. Stop, collect, and remove at next downstream manhole.
   2. Transportation and disposal of debris: Follow jurisdiction requirements and as approved by Engineer.

D. Notify Engineer of any construction delay, problems, or contract deviations taking place during insertion before curing operations.
   1. Such delays or problems may require sampling and testing of portions of cured liner by independent laboratory at Engineer's direction at no additional cost to the Owner.

   2. Sample test failures or lack of immediate notification of delay may result in rejection of that portion of work.
   3. Engineer has option to require removal of liner tube and reinstallation.
   4. If tube is damaged during removal, repair tube to Engineer's approval or replace damaged tube with new tube at no cost to the Owner.

E. Cure.
   1. Liners cured with hot water or steam: Follow ASTM F1216 or ASTM F1743 as specified.
      a. Recirculation Equipment: Capable of uniformly raising temperature of re-circulated water, and maintaining recommended cure temperature for duration to produce cured resin.
      b. Water/Steam Temperature in Tube during Cure Period: Follow manufacturer's guidelines and specified herein.
         (1) Follow minimum and maximum standards for curing CIPP including temperature requirements determined by resin/catalyst system employed.

(2) Bring temperature up slowly through stages until exothermic reaction is achieved and then maintain.

(a) Evidence of exothermic reaction: When inspection of exposed portions of CIPP appear hard and sound and sensor indicates temperature has reached magnitude to realize exothermic set following resin manufacturer's curing tables.

2. Fiberglass Liners cured with UV: Follow ASTM F2019.
   a. Cure with UV light sources at constant inner pressure sufficient to maintain liner tight against existing wall of pipe.
   b. Record time, rate of travel of ultraviolet light assembly, light sources and internal pressures as specified by liner manufacturer.
   c. Submit segment curing data to Engineer along with manufacturer's curing standards.

F. Process monitoring Sensors.
   1. Use to monitor and maintain curing temperature and internal pressure throughout length of liner following manufacturer's recommendations.
   2. Heat Source: Fitted with suitable monitors to gauge temperature of incoming and outgoing heat exchanger circulating water.
   3. Placement: Between tube and host pipe in downstream manhole at or near bottom.
      a. Extra temperature gauges: Inside tube at invert level of each end.
   4. Electronically record continuous or specified pressure and temperature reading on printout.
      a. Start time.
      b. Gradual build up to curing period with maximum temperature and pressure. Time of gradual dropping of curing temperature.
      c. Cool down duration along with relaxing temperature and pressure.
      d. Start time of gradual release of curing pressure.
      e. Ending time.
   5. If electronic recording fails, record temperature and pressure readings on log every 10 minutes starting before pressure is added to liner and ending 20 minutes after pressure is relieved.
   6. Provide digital thermometer or other means of accurately and quickly checking temperature of exposed portions of liner.

G. Cooling and Relaxation of Liners:
   1. Cool finished CIPP to temperature within 10 degrees of ambient temperature before relieving static head in inversion standpipe.
   2. Cool-down may be accomplished by introduction of cool water into standpipe to replace water/steam being drained or vented from downstream end.

3. Caution is advised in release of static head so vacuum will not be developed with potential to damage newly installed liner.
4. After liner has cooled and relaxed, except for manhole indicated as line-through, cut cured liner flush with inside wall of manholes.
5. Fill voids between manhole channel, bench, or wall and liner with quick setting, H2S resistant, epoxy mortar to form watertight seal.
6. Trowel grout to form smooth transition between manhole base or channel and liner to ensure sewage flow with no collection points for solids.

H. Finish Liner.
1. Ensure liner is continuous over length of reconstructed pipe and follows material requirements specified herein.
2. Repair leaks at interface of manhole and liner.

I. Return mainlines to service with approval of Engineer.

3.05 RE-INSTATEMENT OF LATERAL-MAINLINE INTERFACE

A. Identify and locate lateral-mainline interface.

B. Re-instate active services and services to vacant lots after pipe liner has cured.
1. Perform from interior of pipeline without excavation using internal inspection camera with robotic cutter head.

2. Re-instatement cut through liner: Neat, smooth, and to diameter of existing lateral-mainline interface in order to prevent blockages.
3. Do not damage existing laterals.
4. Coupons and cuttings.
a. Collect at downstream manhole and remove.
b. Mark whole captured coupons with component number and make available for testing and reporting liner thickness.

C. Abandoned Laterals.
1. Open at Engineer's directions.
2. If abandoned lateral is opened without Engineer's approval, perform an internal spot repair to close lateral at no cost to the Owner.

D. Lateral-Mainline Interface Reinstatement Problems.
1. Respond immediately upon Engineer's notification of potential backup.
2. Cost incurred by the Owner due to failure to respond within time frame specified may be deducted from monies owed Contractor.

3.06 PREPARATION FOR LATERAL LINING

A. Access: Through mainline connection or cleanout.

B. Lateral lining ability inspection.
   1. Rate connecting laterals by inspection between main and cleanout or beyond property line.
   2. Do not line laterals with less than 2 percent grade, deep sags, offsets, heavy grease, un-removable roots, over 2 multiple bends, capped end, un-sealable leaks, PVC material, crushed/collapsed lateral pipe, and without manufacturer's recommendation.
   3. Laterals that cannot be lined will be replaced at the Owner's request. Material requirements shall follow Owner's specifications.
   4. Submit to Engineer, documentation and video for laterals that cannot be lined.

C. Lateral Cleaning and Surface.
   1. Internally remove any obstructions, roots, debris, and grease that will impact lining lateral.
   2. Remove tuberculation from ductile iron laterals.
   3. Do not back-up or blow-back water into property owners' building.
   4. Laterals, mainlines, or property damaged as result of improper use of cleaning and preparation equipment to be repaired at no cost to the Owner.

D. Inspection and Recommendation to Engineer.
   1. Inspect laterals from mainline or cleanout pit.
   2. Identify laterals ready for lining.
   3. Install lateral lining only after pre-lining CCTV inspections following Engineer's review and approval.

E. Setup bypass pumping, if necessary, or turn off water to building with Engineer's approval.
   1. Water service shutdown will be reviewed by Engineer on case-by-case basis.

F. Perform manufacturers and industry standard required preparation work to alleviate lateral lining problems.

3.07 LATERAL LINING INSTALLATION

A. Follow procedures for Mainline Liner Installation, specified herein.

B. Invert tube from process launcher by controlled means, assuring even feed of tube into lateral with installation pressure not exceeding 10 to 15 psi.

C. Place lateral liner flush with mainline interface. Trim any protruding liner that extends past mainline interface: Trim same day as installation.

D. Place lateral liner over all defects or within 12 inches from cleanout.

E. Use multiple CCTV cameras to ensure proper installation and alignment of lateral liner.

F. When curing is completed, gradually reduce pressure and remove inflation bladder including any leftover pieces.

G. Ensure liner is continuous over length of reconstructed pipe and meets or exceeds material requirements specified herein.

H. Inspection.
   1. Materials and processes: Reasonably available for pre-installation, installation and post-installation inspections.
   2. Areas that require inspection include, but are not limited to product materials exhibiting sufficient transparency to visually verify quality of resin impregnation.

3.08 LATERAL-MAINLINE INTERFACE SEAL

A. After mainline lining is completed and the laterals have been recently renewed, install watertight lateral-mainline interface seal and extend minimum of 18 inches into lateral to create water tight seal ensuring interface is smooth and does not impede flow from lateral.
   1. Approved for lateral lining seal.
      a. LMK Enterprises
         (1) T-Liner type lateral lining system (shorty) by LMK Enterprises
         (2) 2-piece Hydrophilic, Full Circle Structural Connection Seal
      b. BLD Services LLC
         (1) Service Connection Seal Plus Lateral (SCS +L)
   2. Approved for Interface Injection Seal.
      a. Janssen Process Company.
      b. ProKASRO Interface Injection.

B. Perform manufacturers required and industry standard preparation work to alleviate lateral-mainline interface seal problems and as specified herein.
   1. As necessary for access of equipment, contour manhole bench and channel by saw cutting.
   2. Internally remove any obstructions, roots, debris, or grease that impact lateral- mainline interface seal.

3. Remove tuberculation on ductile iron lateral.
4. Do not back-up or blow-back waste into property owners' building.
5. Perform pre-lining leakage control by chemical grout method to eliminate cold spots.
    a. Chemical grouting not required for Janssen resin seal method.
6. Lateral, mainline, or property damaged as result of improper use of equipment: Repaired at no cost to the Owner.

C. Setup bypass pumping, if necessary, or turn off water to building with Engineer's approval.

3.09 PREPARATION FOR SPOT REPAIRS

A. Perform internal inspections after cleaning sewer.
    1. Inspect fault in conduit using CCTV and record detail. Estimate dimensions of fault and length of repair required.
    2. Confirm, locate and identify by building address existing connections and services attached to impacted sewer main and furnish to Engineer.
    3. Confirm that pipe is ready for repair.
        a. If internal spot repair is not viable, notify Engineer and provide pre-inspection CCTV recording.

B. Fill void areas prior to performing internal spot repair.

3.10 POST INSPECTION OF MAIN, LATERAL, AND LATERAL-MAINLINE INTERFACE

A. Verify system is sealed and free of leaks.
    1. Show liner at manhole wall is sealed with no leakage.
    2. Show main, lateral, and lateral-mainline interface seal are installed properly.

3.11 ACCEPTANCE

A. Inspect sewer main, lateral, and lateral-mainline system by CCTV inspection.

B. Infiltration of groundwater: None allowed.

C. Laterals: Reinstated and unobstructed.

D. Defects When Engineer Deems Repairable: Repair defect, replace liner, install new service, or replace lateral-mainline interface at no additional cost to the Owner.

END OF SECTION

Outlook

RE: [External Email]RE: City of Ironwood Phase 5B - Bid Opening

From Granskog, Andy - RD, MI <andy.granskog@usda.gov>
Date Tue 4/15/2025 8:40 AM
To Paul Anderson <andersonp@ironwoodmi.gov>; Mike Graham <mgraham@coleman-engineering.com>
Cc O'Neal, Crystal - RD, MI <crystal.oneal@usda.gov>; Scott Nowack <snowack@coleman-engineering.com>; Kelsey Roble <kroble@coleman-engineering.com>

Paul, I got your voicemail message from yesterday about starting construction prior to loan closing.

Yes, you may, but with the following clarifications.

We need:

1. an engineer's recommendation of award that discusses the bid opening, the bids, the award, and whatever work will be added by change order.
2. the final budgets for everything to set up the 402-2 budget spreadsheet.
3. whatever else Crystal needs to set up the loan closing. She will respond with these details.

Once these items are in hand, feel free to proceed with construction. Be forewarned however, there will be no funds from RD until after the loan closing, however long that takes. Crystal can give an estimate of how long a lead time bond counsel needs.

Andrew H. Granskog, PE
Lead Civil Engineer
Office of the Michigan State Director | Program Support Team

USDA U.S. DEPARTMENT OF AGRICULTURE
Rural Development
3001 Coolidge Road, Suite 200, East Lansing, MI 48823
p: (517) 324-5209 | c: (517) 582-8820

IRONWOOD
MICHIGAN | Find Your North

To: Mayor Corcoran and City Commission

From: Paul Linn, Finance Director/Treasurer

Date: 5/8/2025 **Meeting Date**: 5/12/2025

Re: Upcoming Vacancy in City Department of Public Works

Our current Utility Billing Manager, Bob Tervonen, is planning to retire in February of 2026. His successor was recently selected and is one of our current Department of Public Works (DPW) employees. We are excited to announce that Devon DeRosso will be the City of Ironwood's next Utility Billing Manager. To help with this transition, we are planning to hire Devon into his new role on November 3, 2025. This will give him approximately four months of direct training with Bob. Our recommended budget for the 2025-2026 fiscal year reflects this change.

This change will create an opening within our DPW. In accordance with our AFSCME collective bargaining agreement, vacancies within our DPW must be posted internally. This has the potential to create a series of job classification changes within our DPW and lengthen the time it takes to hire an additional external employee for our DPW.

There are tasks that Bob performs throughout the year (ex. cross-connection inspections) that will be beneficial for the City and Devon to begin training/job shadowing prior to November. Doing this will create a shortage within our DPW. We would like to begin the process of filling the upcoming vacancy in our DPW as soon as possible. This will result in a temporary increase in DPW employees until Devon transitions to Utility Manager in November. We would like to hire a new external employee in July or August. With City Commission support, we will budget for this temporary increase in City staff in the 2025-2026 fiscal year Water Fund budget.

It is our recommendation that City staff be authorized to begin the process of filling the upcoming vacancy in the DPW.