

**CITY OF STORM LAKE
REGULAR COUNCIL MEETING, CITY HALL
COUNCIL CHAMBERS
MARCH 7, 2022
5:00 PM**



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

AGENDA

ACCESS TO THE OFFICIAL MEETING CAN ALSO BE DONE THROUGH THE FOLLOWING WAYS:

BY TELEPHONE:

Dial: 1-312-626-6799 or toll-free: 1-888-475-4499
Zoom Meeting ID: 933-2006-3301

BY COMPUTER:

<https://zoom.us/j/93320063301>

- A. Pledge of Allegiance
- B. Consideration of Changes in Agenda and Setting the Agenda
- C. Disclosure by City Council Members
- 1. Hear the Public
- 2. Consent Agenda
 - A. Approve Consent Agenda
 - B. Buy Local Information
 - C. Motion To Approve Sunrise Pointe Golf Course Hole Sponsorship Agreements
 - D. Motion To Approve Engagement Letter With Ahlers & Cooney, P. C. For Legal Services Related To Economic Development
 - E. SLPD City Code Enforcement Summary
- 3. Motion Setting Public Hearing on Fiscal Year 2022-2023 Budget
- 4. Motion to Approve Addition to 2021-2022 Capital Improvement Plan
- 5. Motion Setting the Public Hearing for the 2022 4th Street Watermain Improvements Plans, Specifications, and Form of Contract
- 6. Resolution No. 64-R-2021-2022 Approving an Amendment to Agreement with Bolton & Menk, Inc. for Professional Services for Engineering Services for the FEMA BRIC Grant And FEMA HMA Project

7. **Resolution No. 65-R-2021-2022 Approving Agreement with Simmering-Cory for Professional Services for Grant Administration Services for the FEMA HMA Grant**
8. **Resolution No. 66-R-2021-2022 Approving Joint City/County Agreement**
9. **Motion to Approve the FY 2026 FAST Act Application for Oneida Street Reconstruction Phase 2 Project**
10. **City Council Requested Items**
11. Adjourn

Meeting Protocol

If you wish to speak today, please:

1. To speak on an agenda item please approach the podium when that agenda item is called and upon recognition by the Mayor identify yourself by stating your name and address.
2. If your issue is not a topic on the agenda please approach the podium under the "Hear the Public" agenda item and upon recognition by the Mayor identify yourself by stating your name and address.
3. Please keep your remarks to three (3) minutes or less.
4. If you require accommodation for this meeting including but not limited to translation services, hearing assistance, or accessibility please contact the City Clerk at least four (4) hours prior to the start of the meeting.

**If you have concerns about any of the items on the consent agenda, they may be separated from the consent agenda and voted on individually.*

***Ordinances may be read at three consecutive meetings or readings may be waived and ordinances may be passed at only one or two meetings.*



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Staff Summary

3/7/2022

Agenda Item # B.



City of Storm Lake
PO Box 1086
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REPORT TO: Honorable Mayor and City Council

FROM:

SUBJECT: Consideration of Changes in Agenda and Setting the Agenda

BACKGROUND:

FISCAL IMPACT:

RECOMMENDATION:

Staff Summary

3/7/2022

Agenda Item # C.



City of Storm Lake
PO Box 1086
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REPORT TO: Honorable Mayor and City Council

FROM:

SUBJECT: Disclosure by City Council Members

BACKGROUND:

FISCAL IMPACT:

RECOMMENDATION:

Staff Summary

3/7/2022

Agenda Item # A.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Mayra Martinez, City Clerk

SUBJECT: **Approve Consent Agenda**

BACKGROUND: The Consent Agenda Includes:

- List of bills for approval
- King's Pointe and Sunrise Pointe disbursements for approval
- Approve the February 21, 2022 City Council Minutes
- Acknowledge the Library January 2022 Minutes
- Acknowledge the Airport January 2022 Minutes
- Approve Renewal Liquor License for Wal-Mart Store #1526, Mo's, Loyal Order of Moose and Sichanh Liquor Store (Pending Dramshop Insurance)
- Motion to Approve Sunrise Pointe Golf Course Hole Sponsorship Agreements
- Motion to Approve The Engagement Letter With Ahlers & Cooney, PC For Legal Services Related to Economic Development
- Approve the SLPD Code Enforcement Summary (see staff summary)

FISCAL IMPACT: The City will pay the following expenditures:

- List of Bills - - \$323,639.64
- King's Pointe & Sunrise Pointe Golf Course Bills -- \$160,512.16

The City will receive the following revenues:

- Liquor License Renewal Fees -- \$1,605.00
-

RECOMMENDATION: Approve Consent Agenda

ATTACHMENTS:

Description	Type
☐ List of Bills	List of Bills
☐ King's Pointe Claims	List of Bills

▢ Minutes - February 21, 2022	Minutes
▢ Library Minutes - January 2022	Minutes
▢ Airport Minutes - January 2022	Minutes
▢ Walmart Store #1526 Liquor Application 2022	Application
▢ Wal-Mart Liquor Report 2022	Backup Material
▢ Mo's Tap Liquor Application 2022	Application
▢ Mo's Tap Liquor Report 2022	Backup Material
▢ Loyal Order of Moose Liquor Application 2022	Application
▢ Loyal Order of Moose Liquor Report 2022	Backup Material
▢ Sichahn Liquor Store Liquor Application 2022	Application
▢ Sichahn Liquor Store Liquor Report 2022	Backup Material



Storm Lake, IA

My Buy Local_v1

Payment Date Range: 02/24/2022 - 03/09/2022

Vendor Name	Buy Local Info	Payable Description	Total Payments
BVC			
Mike's Electronics Inc	BVC	NW LS Service	6,175.16
Aronson Plumbing & Heating	BVC	Water Meter Installation	113.72
Control System Specialists, LLC	BVC	CO Detector Services	103.00
Buena Vista County Solid Waste	BVC	Recycling	294.84
Essential Ellison LLC	BVC	ABC Extinguisher Testing	32.71
	BVC Total:	6,719.43	
Contract/Agreement			
Local Government Professionals Services, Inc	Contract/Agreement	FEMA BRIC Grant Writting Services	8,000.00
Kevin L Gilman	Contract/Agreement	Pay #2 (Final) Hoch Project	3,305.00
	Contract/Agreement Total:	11,305.00	
Local			
Zone Home Entertainment, LLC	Local	Ice Machine- Less Tax	4,484.67
Arnold Motor Supply, LLP	Local	Supplies	3,224.07
Bomgaars Supply, Inc	Local	Supplies	2,571.47
Larson Oil & Distributing Co, Inc	Local	Propone	2,135.70
A & A Automotive	Local	New Tires	2,093.24
Edwards Storm Lake	Local	Tie Rods & CV Shaft	3,983.48
Larson Oil & Distributing Co, Inc	Local	Propane	1,398.60
Philip E Havens	Local	Legal Services	1,062.50
Iowa Office Supply Inc	Local	Name Tags	753.15
Edwards Storm Lake	Local	Seat Belt Replacement	639.82
WalMart #01-1526	Local	Supplies	609.10
Vetter Equipment	Local	Blower	597.08
Graffix Inc	Local	Uniforms	490.00
Wiese Plumbing & Heating, Inc	Local	Furnace Fan Replacement	483.50
Graffix Inc	Local	Uniforms	357.50
Storm Lake Ace Hardware	Local	Supplies	330.78
Fastenal Company	Local	Distilled Water	305.87
Color-ize Inc	Local	Year End Rewards	261.30
Holzhauer Ford Lincoln Storm Lake Inc	Local	Battery Replacement	226.44
Color-ize Inc	Local	Mugs	223.27
Holzhauer Ford Lincoln Storm Lake Inc	Local	Battery	213.17
Iowa Office Supply Inc	Local	Name Plates	209.56
A & A Automotive	Local	Service	191.28
Vetter Equipment	Local	Chain Saw Bars	156.78
Visual Edge Inc	Local	Copier Maintenance Agreement	274.14
Comes Investments, Inc	Local	3/1/2022 Order	95.57
Michael P. Reinert	Local	Supplies	90.00
Holzhauer Ford Lincoln Storm Lake Inc	Local	Wire Replacement	83.29
Reding's Gravel & Excavating Co., Inc	Local	Scale Fees	81.00
Visual Edge Inc	Local	Copier Maintenance Agreement	74.49
The Bridge of Storm Lake	Local	Coffee	60.34
Plumbing & Heating Wholesale, Inc	Local	Pipe	55.73
Storm Lake Hearing Aid Service, Inc	Local	Screening- Estana	50.00
King's Pointe Resort	Local	2/19/2022 Legislative Coffee	39.50
Michael P. Reinert	Local	Supplies	30.00
Culligan Water Storm Lake	Local	Water Supplies	24.75
O'Reilly Automotive Inc	Local	Wiper Blades	15.19
MidAmerican Energy Company	Local	Xmas Lights	10.00
Buena Vista Regional Medical Center	Local	ID Nametag	5.00
	Local Total:	27,991.33	

My Buy Local_v1

Payment Date Range: 02/24/2022 - 03/09/2022

Vendor Name	Buy Local Info	Payable Description	Total Payments
Non-Local			
MRA Custom Applications, LLC	Non-Local	Lime Hauling Services	11,388.10
H-O-H Water Technology, Inc	Non-Local	Chemicals	9,228.00
Van-Wall Equipment, Inc	Non-Local	Mower Lift Equipment	7,200.00
Mississippi Lime Company	Non-Local	Lime	6,452.63
Power Plan	Non-Local	Lake Bank Cleaning Mower Services	6,251.99
Electric Pump Inc	Non-Local	Sludge Pump Repairs	5,794.82
Karl Chevrolet, Inc	Non-Local	Light Bar & Controller Replacement	4,164.54
SCE, LLC	Non-Local	10th & Michigan Main Break	3,177.50
Bend Mailing Services, LLC	Non-Local	Bill Printing Services	2,747.66
Northwest Electric, LLC	Non-Local	Munters Supplies	2,681.00
Power Plan	Non-Local	Cutting Edges x2	2,162.02
Sta-Mel Enterprises, Inc	Non-Local	Deicing Salt	1,912.60
Linde Inc	Non-Local	Carbon Dioxide	1,861.11
SCE, LLC	Non-Local	1118 Erie Main Break	1,750.00
Rice Signs LLC	Non-Local	Signs	1,398.00
Foundation Analytical Laboratory, Inc	Non-Local	Testing	1,202.90
Axon Enterprises, Inc	Non-Local	Cartridges	1,129.08
NCL of Wisconsin, Inc	Non-Local	Testing Supplies	1,012.34
Hach Company	Non-Local	Testing Supplies	916.70
SGS, LLC	Non-Local	Garbage Services	854.75
US Peroxide, LLC	Non-Local	Facility & Maintenance Agreement	750.00
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	683.70
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	513.75
W. W. Grainger, Inc	Non-Local	Waders	470.96
Eagle Engraving, Inc	Non-Local	Engraving Supplies	343.70
Iowa Heart Center	Non-Local	9/15/2020 Lane Physical	335.00
Utility Equipment Co	Non-Local	Clamp	314.61
Toyne, Inc	Non-Local	Cap	294.73
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	291.00
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	287.20
Environmental Resource Associates	Non-Local	Testing Supplies	270.17
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	211.00
Iowa Public Employees	Non-Local	IPERS withholdings	204.50
Fisher Scientific Company, LLC	Non-Local	Testing Supplies	198.95
Marcus Lumber Company Corp	Non-Local	Premix Rock & Sand	180.64
National Fire Protection Association	Non-Local	FY2022 Membership- Olesen #155090	175.00
Iowa Division of Labor	Non-Local	Annual Inspection Fee	175.00
EFTPS	Non-Local	Federal withholding taxes	141.10
W. W. Grainger, Inc	Non-Local	Boards	132.74
Toyne, Inc	Non-Local	Gauge	123.95
W. W. Grainger, Inc	Non-Local	Adhesive	97.09
EFTPS	Non-Local	Federal withholding taxes	79.65
James M. Sweeney & Associates, Inc	Non-Local	Background Check	70.30
Alpha Wireless Communications	Non-Local	Supplies	51.50
Iowa Municipal Finance Officers Associatio	Non-Local	Membership Dues	100.00
Dale Vitito	Non-Local	Uniform	46.94
Northwest Iowa League of Cities	Non-Local	2/17/2022 Meeting Registration	45.00
EFTPS	Non-Local	Federal withholding taxes	33.00
Sandy Boeckman	Non-Local	2022 Reciprocal Agreement	30.00
EFTPS	Non-Local	Federal withholding taxes	20.10
Iowa Municipal Finance Officers Associatio	Non-Local	Membership Dues	20.00
Treasurer State of Iowa	Non-Local	State withholding taxes	19.55
Johnston Automotive & Industrial of Spenc	Non-Local	Supplies	9.57
EFTPS	Non-Local	Federal withholding taxes	8.37
Treasurer State of Iowa	Non-Local	State withholding taxes	6.01
EFTPS	Non-Local	Federal withholding taxes	4.72
Marcus Lumber Company Corp	Non-Local	Premix Rock & Sand Returned	-59.67
Non-Local Total:		79,965.57	

My Buy Local_v1**Vendor Name**

Payroll/Refunds

Iowa District Court

AFLAC

Buy Local Info

Payroll/Refunds

Payroll/Refunds

Payroll/Refunds Total: 25.00**Grand Total: 126,006.33****Payable Description**

Court Garnishment

Aflac withholdngs

Total Payments

25.00

0.00

Payment Date Range: 02/24/2022 - 03/09/2022

King's Pointe Resort

Claims Publication

From 2/17/2022 to 3/2/2022

Vendor	Description	Amount
ACCO Unlimited Corporation	Supp	\$ 544.00
Alliant Energy	Utilities	\$ 778.68
Arnold Motor Supply, LLP	Supp	\$ 245.94
Authnet Gateway	Services	\$ 25.00
Automatic Door Group	Services	\$ 1,881.55
Cintas Corporation	Supp	\$ 1,807.00
COMMLOG LLC	Services	\$ 53.24
Copper Cottage	Services	\$ 7,516.83
Doll Distribution	Beverages	\$ 380.20
ECOLAB	Supp	\$ 748.17
Ed M. Feld Equipment dba Feld Security	Services	\$ 1,358.32
Foundation Analytical Laboratory, Inc	Testing	\$ 60.00
Gecko Hospitality Inc.	Services	\$ 8,560.00
Grainger	Supp	\$ 338.40
Gray Media Group DBA KTIV	Advertising	\$ 3,163.00
GuestSupply	Supp	\$ 2,387.66
Heartland Payment System	Services	\$ 400.00
Hermel Wholesale	Food	\$ 308.54
HyNoon Kiwanis Club of Storm Lake, IA	Membership	\$ 55.00
HyVee	Beverages	\$ 476.71
Iowa Dept of Revenue	Taxes	\$ 20,000.00
Iowa Golf Association	Membership	\$ 565.00
Iowa Sportsman	Advertising	\$ 400.00
Johnson Brothers	Beverages	\$ 123.10
Marcus Lumber Co	Supp	\$ 59.90
Martin Brothers	Food	\$ 3,638.83
MidAmerican Energy	Utilities	\$ 10,424.46
Mood Media North America Holding LLC	Services	\$ 1,276.43
Munters Corporation	Services	\$ 6,169.00
National Utilities Refund LLC	Services	\$ 93.36
Office Elements	Supp	\$ 765.72
Pepsi Beverages Company	Beverages	\$ 691.45
Quore Systems, LLC	Services	\$ 285.00
Rebnord Technologies, Inc.	Services	\$ 2,358.33
Rent-All Inc.	Services	\$ 1,400.00
Rolloff Dumpster Rental of Iowa INC.	Utilities	\$ 433.32
Shift 4	Services	\$ 5,239.88
Silverware POS Inc.	Services	\$ 6,922.80
SPRY IT	Services	\$ 543.73
Steven A. Beeck dba Steve's Window Service	Services	\$ 566.00
Sysco Iowa, Inc.	Food	\$ 5,084.38
The Nutting Company dba The Messenger	Advertising	\$ 395.00
TK Elevator Corporation	Services	\$ 242.39
Verizon Wireless	Utilities	\$ 146.20
Vizergy	Services	\$ 1,158.45
Wells Fargo Financial Leasing, Inc.	Services	\$ 235.18
W-O Mgmt Fee- Jan 2022	Agreement	\$ 6,362.90

W-O Payroll 2/18	Payroll	\$ 53,815.31
World Travel Service, Inc.	Services	\$ 27.80
		<u><u>\$ 160,512.16</u></u>

REGULAR COUNCIL MEETING, CITY HALL COUNCIL CHAMBERS CITY OF STORM LAKE, FEBRUARY 21, 2022, 5:00 PM

Present: Mayor Michael Porsch (via Zoom), Council Members, Tyson Rice, Maria Ramos, Matt Ricklefs, Maggie Martinez and Kevin McKinney (via Zoom). Absent: none.

Staff present: City Manager Keri Navratil, Assistant City Manager David Derragon, City Attorney Phil Havens, Police Chief Chris Cole, Fire Chief Glenn Schlessler, Building and Code Compliance Director Scott Olesen, Water Quality Operations Supervisor Ron Covert, Library Director Elizabeth Huff, Public Services Supervisor Scott Bonebrake, Assistant Public Services Supervisor Brandon Ripke, King's Pointe Manager Amy Von Bank, Finance Director Brian Oakleaf, City Clerk Mayra Martinez, and Staff Accountant Tyler Gibbins.

Media Present: Dana Larson with the Pilot Tribune, Tom Cullen with The Times and Ryan Thompson with KAYL radio.

Mayor Porsch called the meeting to order at 5:00 pm.

Pledge of Allegiance

Agenda - Moved by Council Member Ricklefs to approve setting the agenda. Seconded by Council Member Ramos. Vote: All ayes. Motion carried.

Disclosure by City Council Members - Council Member Ricklefs informed the council that he would be abstaining from agenda item number 4 as these items involve his father-in-law, Ben Friesen.

Hear the Public – No comments from the public

Consent Agenda - Moved by Kevin McKinney to approve the Consent Agenda, list of bills, King's Pointe and Sunrise Pointe disbursements, approve the February 7, 2022, City Council minutes, acknowledge the Library January 2022 minutes and the Airport January 2022 minutes, approve renewal liquor licenses for King's Pointe Resort, Sunrise Pointe Golf Course, and Puffs (pending dram shop insurance) and approve the SLPD Code Enforcement summary. Seconded by Tyson Rice. Vote: All ayes. Motion carried.

Platting For A Minor Subdivision - - Mayor Porsch opened the public hearing for the Final Plat for a Minor Subdivision stating this was the time and place for any comments. Receiving no comments from City Council or the public, the Mayor then closed the public hearing.

Moved by Council Member Rice to adopt Resolution No. 62-R-2021-2022 approving Platting for a Minor Subdivision. Seconded by Council Member Ramos. Roll call vote: All ayes with Council Member Ricklefs abstaining. Motion carried.

RESOLUTION NO. 62-R-2021-2022

RESOLUTION APPROVING PLATTING OF EVERGREEN ESTATE ADDITION TO THE CITY OF STORM LAKE, IOWA

WHEREAS, Bernardo Friesen and Katharina Friesen have presented a preliminary plat and final plat of EVERGREEN ESTATE ADDITION TO THE CITY OF STORM LAKE, IOWA as described have presented to the City Council of Storm Lake, Iowa plat of the following described property:

SEE ATTACHED EXHIBIT A

and

WHEREAS, the plat of the proposed addition has been reviewed and recommended for approval to this council by the Planning and Zoning Commission of the City of Storm Lake, Iowa, and said plat and dedication have been found acceptable to us and in compliance with the rules and regulations; and

WHEREAS, the same is found to conform with applicable provisions of the Iowa Code.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Storm Lake, Iowa: the preliminary and final Plat of Evergreen Estate Addition to the City of Storm Lake, Iowa is hereby approved.

BE IT FURTHER RESOLVED that the Mayor and City Clerk of this Council be and are hereby authorized to certify this resolution and that said certification of this resolution shall be affixed to said plat as provided by Chapter 354 of the Code of Iowa (2021) and that the same may be filed I the appropriate County offices as provided by law.

PASSED, APPROVED, AND ADOPTED this 21st day of February, 2022.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

EXHIBIT A

DESCRIPTION

A TRACT OF LAND LOCATED IN THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER (SE 1/4 NW 1/4) OF SECTION 8, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., WITHIN THE CORPORATE LIMITS OF THE CITY OF STORM LAKE, BUENA VISTA COUNTY, IOWA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Commencing at the Southeast (SE) Corner of the Northwest Quarter (NW 1/4) of said Section 8; Thence North 00° 28' 08" West, along the East line of said Northwest Quarter (NW 1/4), 115.00 feet to the Point of Beginning. Thence continuing North 00° 28' 08" West, along said East line, 861.93 feet to the South line of Lot A in said Section 8; Thence South 89° 43' 15" West, along said South line, 415.65 feet to the Southwest (SW) corner of said Lot A; Thence South 00° 28' 08" East, 860.64 feet; Thence North 89° 53' 53" East, 415.65 feet to the Point of Beginning.

Tract contains 8.22 Acres and is subject to all easements of record.

Sunrise Pointe Golf Course Reciprocal Policy - Moved by Council Member Ricklefs to adopt Resolution No. 63-R-2021-2022 to approve Sunrise Pointe Golf Course Reciprocal Policy. Seconded by Council Member Martinez. Roll call vote: All ayes. Motion carried.

RESOLUTION NO. 63-R-2021-2022

RESOLUTION APPROVING THE SUNRISE GOLF GOURSE RECIPROCAL POLICY AND WAIVING GREEN FEES FOR THE RECIPROCAL MEMBERS.

WHEREAS, the City of Storm Lake owns the Sunrise Golf Course; and

WHEREAS, the City of Storm Lake desires to increase the number of rounds of golf played annually at the course; and

WHEREAS, the City of Storm Lake welcomes the opportunity to showcase the golf course to players from other courses in the Midwest Iowa; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, IOWA:

To approve waiving fees for golfers from participating courses visiting Sunrise Pointe Golf Course covered in the Sunrise Golf Course Reciprocal Policy.

PASSED AND APPROVED this 21st day of February, 2022.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

Fiscal Year 2022-2023 Budget Work Session - City Council Members reviewed the FY2022-2023 budget and no changes were made to the proposed budget.

Work Session - Public Information and Outreach - Assistant City Manager Derragon reviewed the many ways that the city shares information to the public.

City Council Requested Items - No items at this time.

Adjourn - Moved by Council Member Ramos to adjourn at 5:21 pm. Seconded by Council Member Ricklefs. Vote: All ayes. Motion carried.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk



Library Board Meeting, City of Storm Lake, January 10, 2022, 4:00 p.m. hybrid and telephonic due to the Pandemic

Present: Board President Mary Kay Hudspeth, Jim Eliason, Sarah Freking, Sue Lyngaas and Barb Wells. Also present, Elizabeth Huff, Library Director; and Dana Larson, Pilot-Tribune.

President Hudspeth called the meeting to order at 4:00 p.m.

Disclosures by Board Members - None

Agenda – Moved by Board Member Lyngaas to approve January 10 Agenda. Seconded by Board Member Eliason. Vote all ayes. Motion carried.

Public Hearing – None

Witter Gallery Report - None

Approval of Minutes – Moved by Board Member Eliason to approve December Minutes. Seconded by Board Member Freking. Vote all ayes. Motion carried.

Director's Report – The Director sorted book donations from the Elementary School: library's youth collection, Friends book sale and boxes to county libraries containing multiple copies to help lessen pandemic learning loss. There were no questions on the bar charts or ledgers. The Friends received a \$1000.00 anonymous Foundation donation. The Teen Corner needs a compatible game console for the Smart TV and games to go with it and the Director will do more research. Memorials have been received for Terence Stull and Donnabelle Sievert. The library's website has gone live. City Council is waiting for the Architect's timeline for the library renovation. Reimbursement for the ARPA purchases (digital TV and air purifier) was deposited.

Approval of Bills – Moved by Board Member Freking to approve January Bills. Seconded by Board Member Eliason. Vote all ayes. Motion carried.

Gallery Agreement Committee – Board President Hudspeth read aloud the Fire Chief's letter regarding the Gallery's request for the Trustees and City to build gallery offices in the Fire Exit Hallway. Chief Schlessler cited NFPA 101 Life Safety Code therefore office space in the exit corridor is not allowed.

Library Board Member Requested Items - None

Adjournment – Moved by Board Member Lyngaas to adjourn meeting at 4:25 pm. Seconded by Board Member Freking. Vote all ayes. Motion carried.

Elizabeth Huff, Library Director - Please note the above is an unapproved draft of minutes and will be approved by the Board of Trustees on January 10, 2021.

**Storm Lake Airport Commission
Regular Meeting, Airport Terminal
Monday, January 10, 2022, 4:00 PM**

Present: Commission Members Bob Ansorge, Dan Richardson, Cynthia Turner. Absent: Commissioner Jason Dierking. Others Present: John Bartholomew and Tyler Gibbins.

Chairman Bob Ansorge called the meeting to order at 4:00 pm.

Hear the Public – No comments.

Minutes – Moved by Commissioner Richardson to approve the regular Airport Commission December 2021 minutes. Seconded by Commissioner Turner. Vote: All ayes with Commissioner Dierking absent. Motion carried.

Financial Report – Moved by Commissioner Richardson to approve the financial reports for December 2021. Seconded by Commissioner Turner. Vote: All ayes with Commissioner Dierking absent. Motion carried.

Fuel Report – Moved by Commissioner Richardson to approve the December 2021 Fuel Report. Seconded by Commissioner Turner. Vote: All ayes with Commissioner Dierking absent. Motion carried.

Airport Manager's Monthly Report – Called Flight Service and issued a NOTAM closing the airport due to ice. Attended airport commission meeting. Checked around the airport for wind damage after the storm and found no damage except for the big windsock needs to be replaced. Called Mid-American Energy to report that a parking lot security light is out. The Airport was closed on December 24th and 25th for Christmas.

Reported the AV Gas ventilation did not work correctly during the last load. Sioux Equipment stated it may be a result of the cold weather. Recommended to check during the next load if the issue persist.

Reported the dead man switch cable on the Jet Fuel pump is frayed and in need of replacement.

Courtesy Car Usage: 4 Miles 213
Fuel Meter Reading: Jet A – 581,035
AV Gas – 136,250.4

Administration Report – . The Commission directed City Staff to look into a Hangar and Fuel rate study. The Commission will consider changes at the February meeting.

Public works previously requested the Commission consider adding insulation and heating to the storage hangar where the winter equipment is stored. This will keep the equipment warm and avoid any 'hard' starts on the equipment. Quotes received range from \$17,000 to \$20,000. The Commission should consider their options.

Airport Operating Budget - Efforts continue in developing the operating budget for FY2023, including the airport operations. This is the time the commission should consider any changes in rates and/or operating expense changes.

Adjourn – Moved by Commissioner Richardson to adjourn the meeting at 4:36 pm.
Seconded by Commissioner Turner. Vote: All ayes with Commission Dierking absent.
Motion carried.

Mayra Martinez, City Clerk



State of Iowa

Alcoholic Beverages Division

Applicant

NAME OF LEGAL ENTITY

Walmart Inc.

NAME OF BUSINESS(DBA)

Wal-Mart Supercenter #1526

BUSINESS

(712) 732-7940

ADDRESS OF PREMISES

1831 Lake Ave NW

CITY

Storm Lake

COUNTY

Buena Vista

ZIP

50588

MAILING ADDRESS

702 SW 8th Street Dept 8916

CITY

Bentonville

STATE

Arkansas

ZIP

72716-0500

Contact Person

NAME

Jacey Windel

PHONE

(479) 696-2873

EMAIL

complic@wal-mart.com

License Information

LICENSE NUMBER

LE0001135

LICENSE/PERMIT TYPE

Class E Liquor License

TERM

12 Month

STATUS

Submitted
to Local
Authority

TENTATIVE EFFECTIVE DATE

May 1, 2022

TENTATIVE EXPIRATION DATE

Apr 30, 2023

LAST DAY OF BUSINESS

SUB-PERMITS

Class E Liquor License, Class C Beer Permit, Class B Wine Permit



State of Iowa

Alcoholic Beverages Division

PRIVILEGES

Sunday Service

Status of Business

BUSINESS TYPE

Publicly Traded Corporation

Ownership

• Individual Owners

NAME	CITY	STATE	ZIP	POSITION	% OF OWNERSHIP	U.S. CITIZEN
Matthew Allen	Rogers	Arkansas	72758	Assistant Treasurer	0.00	Yes
Andrea Marie Lazenby	Bentonville	Arkansas	72712	Assistant Secretary	0.00	Yes
Carl Doug McMillon	Bentonville	Arkansas	72712	President & CEO	0.00	Yes
Cynthia Moehring	Bentonville	Arkansas	72712	Sr. VP & Chief Compliance Officer	0.00	Yes
Walmart Licensing						
Walmart Licensing						

Insurance Company Information



State of Iowa

Alcoholic Beverages Division

INSURANCE COMPANY

POLICY EFFECTIVE DATE

POLICY EXPIRATION DATE

DRAM CANCEL DATE

OUTDOOR SERVICE EFFECTIVE
DATE

OUTDOOR SERVICE EXPIRATION
DATE

BOND EFFECTIVE DATE

TEMP TRANSFER EFFECTIVE
DATE

TEMP TRANSFER EXPIRATION
DATE

M E M O R A N D U M

TO: MAYRA MARTINEZ

FROM: CHRIS COLE

DATE: February 21, 2022

REFERENCE: LIQUOR LICENSE RENEWAL
WAL-MART
1831 N LAKE AVE

Discussion: Per your request I have accessed the department computer for calls of interest to the aforementioned establishment. The calls are as follows:

	4-15-2020 to 3-16-2021	3-17-2021 to 2-18-2022
INCIDENTS		
9-1-1 Hang-up	22	21
Accident	13	9
Ambulance Assist	10	8
Animal Complaint	4	7
Assault	2	2
Arrest	0	1
Business Assist	5	7
Business Security	137	71
Case Investigation	1	1
Child Abuse	1	0
Citizen Assist	11	12
City Code Enforcement	0	1
City/CO Dept Assist	0	1
Disturbance/Loud Noise/Party	1	0
Drug Investigation	1	0
Extra Security	0	1
Fight	1	0
Found Property	0	7
General Information	2	6
Harassment	4	0
Hit and Run	10	7
Interpretation	3	2
Intoxicated Driver	0	1
Juvenile Problem	1	1
Keys Locked In Car	31	25

Law Department Assist	0	5
Lost Property	5	1
Motorist Assist	5	3
Parking Complaint	1	1
Pedestrian Stop	2	1
PR/Talk/Presentation	29	48
Reckless Driver	3	1
Scam	0	7
Station Assignment	65	54
Street Beat	26	45
Suspicious Activity	3	2
Suspicious Person	4	7
Suspicious Vehicle	2	0
Theft	42	14
Trespass	7	0
Vandalism	0	2
Vehicle Stop	32	47
Violation of No Contact Order	0	1
Warrant Service	1	2
Welfare Check	3	2

ARRESTS

Assault	1	1
OWI	0	1
Possession of Controlled Substance	4	0
Possession Drug Paraphernalia	3	0
Probation Violation	1	0
Public Intoxication	2	0
Remove theft detect device	0	1
Theft	22	6
Trespass	1	0
Warrant Arrest	0	1

Recommendation: Approval of liquor license.



State of Iowa

Alcoholic Beverages Division

Applicant

NAME OF LEGAL ENTITY

Mo's Tap Inc.

NAME OF BUSINESS(DBA)

Mo's

BUSINESS

(712) 732-3292

ADDRESS OF PREMISES

707 Lake Avenue

CITY

Storm Lake

COUNTY

Buena Vista

ZIP

50588

MAILING ADDRESS

111 W 1st Street

CITY

Storm Lake

STATE

Iowa

ZIP

50588

Contact Person

NAME

Marisa Olivarez

PHONE

(712) 299-2969

EMAIL

cashmjm@gmail.com

License Information

LICENSE NUMBER

LC0038268

LICENSE/PERMIT TYPE

Class C Liquor License

TERM

12 Month

STATUS

Pending
Dramshop
Review

EFFECTIVE DATE

Apr 2, 2022

EXPIRATION DATE

Apr 1, 2023

LAST DAY OF BUSINESS

SUB-PERMITS

Class C Liquor License



State of Iowa

Alcoholic Beverages Division

PRIVILEGES

Sunday Service

Status of Business

BUSINESS TYPE

Privately Held Corporation

Ownership

• Individual Owners

NAME	CITY	STATE	ZIP	POSITION	% OF OWNERSHIP	U.S. CITIZEN
Jean Cashman	Storm Lake	Iowa	50588	Vice President	0.00	Yes
Marisa Olivarez	Storm Lake	Iowa	50588	Owner	100.00	Yes

Insurance Company Information

INSURANCE COMPANY

Badger Mutual Insurance
Company

POLICY EFFECTIVE DATE

POLICY EXPIRATION DATE

DRAM CANCEL DATE

OUTDOOR SERVICE EFFECTIVE
DATE

OUTDOOR SERVICE EXPIRATION
DATE

BOND EFFECTIVE DATE

TEMP TRANSFER EFFECTIVE
DATE

TEMP TRANSFER EXPIRATION
DATE

M E M O R A N D U M

TO: MAYRA MARTINEZ

FROM: CHRIS COLE

DATE: January 21, 2022

REFERENCE: LIQUOR LICENSE RENEWAL
MO'S
707 LAKE AVE

Discussion: Per your request I have accessed the department computer for calls of interest to the aforementioned establishment. The calls are as follows:

	1-22-2020 to 2-26-2021	2-27-2021 to 1-18-2022
INCIDENTS		
Bar Check	63	113
Business Assist	2	1
Business Security	16	30
Citizens Assist	0	3
Disturbance	0	6
Fight	0	3
General Information	1	0
Intoxicated Pedestrian	0	1
Law Department Assist	0	1
PR/Talk/Presentation	3	17
Trespass	0	1
Vehicle Stop	0	2
Welfare Check	1	0
White Summons	0	1

ARRESTS

Assault	0	2
Disorderly Conduct	0	5
Driving while barred	0	1
Interference with official acts	0	1
OWI	0	1
Public Intoxication	0	2

Recommendation: Approval of liquor license.



State of Iowa

Alcoholic Beverages Division

Applicant

NAME OF LEGAL ENTITY	NAME OF BUSINESS(DBA)	BUSINESS	
Storm Lake Lodge No. 790, Loyal Order of Moose, Inc	Loyal Order of Moose	(712) 732-2036	
ADDRESS OF PREMISES	CITY	COUNTY	ZIP
527 Erie	Storm Lake	Buena Vista	50588-0000
MAILING ADDRESS	CITY	STATE	ZIP
527 Erie	Storm Lake	Iowa	50588-0000

Contact Person

NAME	PHONE	EMAIL
Paul Archer	(712) 490-4007	lodge790@mooseunits.org

License Information

LICENSE NUMBER	LICENSE/PERMIT TYPE	TERM	STATUS
LA0001213	Class A Liquor License	12 Month	Pending Dramshop Review
EFFECTIVE DATE	EXPIRATION DATE	LAST DAY OF BUSINESS	
May 1, 2022	Apr 30, 2023		
SUB-PERMITS			
Class A Liquor License			



State of Iowa

Alcoholic Beverages Division

PRIVILEGES

Sunday Service

Status of Business

BUSINESS TYPE

Privately Held Corporation

Ownership

• Individual Owners

NAME	CITY	STATE	ZIP	POSITION	% OF OWNERSHIP	U.S. CITIZEN
Rick Reckamp	Storm Lake	Iowa	50588	Director	0.00	No
Paul Archer	Albert City	Iowa	50510	Administrator	0.00	Yes

Insurance Company Information

INSURANCE COMPANY

Endurance American Specialty
Insurance Co

POLICY EFFECTIVE DATE

POLICY EXPIRATION DATE

DRAM CANCEL DATE

OUTDOOR SERVICE EFFECTIVE DATE

OUTDOOR SERVICE EXPIRATION DATE

BOND EFFECTIVE DATE

TEMP TRANSFER EFFECTIVE DATE

TEMP TRANSFER EXPIRATION DATE

M E M O R A N D U M

TO: MAYRA MARTINEZ

FROM: CHRIS COLE

DATE: February 21, 2022

REFERENCE: LIQUOR LICENSE RENEWAL
LOYAL ORDER OF THE MOOSE LODGE
527 ERIE ST

Discussion: Per your request I have accessed the department computer for calls of interest to the aforementioned establishment. The calls are as follows:

	4-15-2020 to 3-16-2021	3-17-2021 to 2-18-2022
INCIDENTS		
911 Hang Up Call	0	1
Accident	0	1
Bar Check	0	0
Business Security	0	3
City Code Enforcement	0	1
Keys locked in car	0	1
ARRESTS	0	0

Recommendation: Approval of liquor license.



State of Iowa

Alcoholic Beverages Division

Applicant

NAME OF LEGAL ENTITY

Sichanh Inc.

NAME OF BUSINESS(DBA)

Sichanh Liquor Store

BUSINESS

(712) 732-4416

ADDRESS OF PREMISES

812 Flindt Drive

CITY

Storm Lake

COUNTY

Buena Vista

ZIP

50588

MAILING ADDRESS

P.O. Box 65

CITY

Storm Lake

STATE

Iowa

ZIP

50588

Contact Person

NAME

John Khamphavong

PHONE

(712) 732-4416

EMAIL

johnk_inc@yahoo.com

License Information

LICENSE NUMBER

LE0001647

LICENSE/PERMIT TYPE

Class E Liquor License

TERM

12 Month

STATUS

Submitted
to Local
Authority

EFFECTIVE DATE

Apr 5, 2022

EXPIRATION DATE

Apr 4, 2023

LAST DAY OF BUSINESS

SUB-PERMITS

Class E Liquor License, Class C Beer Permit, Class B Wine Permit



State of Iowa

Alcoholic Beverages Division

PRIVILEGES

Sunday Service

Status of Business

BUSINESS TYPE

Privately Held Corporation

Ownership

• Individual Owners

NAME	CITY	STATE	ZIP	POSITION	% OF OWNERSHIP	U.S. CITIZEN
John Khamphavong	Storm Lake	Iowa	50588	Owner	100.00	Yes

Insurance Company Information

INSURANCE COMPANY

POLICY EFFECTIVE DATE

POLICY EXPIRATION DATE

DRAM CANCEL DATE

OUTDOOR SERVICE EFFECTIVE
DATE

OUTDOOR SERVICE EXPIRATION
DATE

BOND EFFECTIVE DATE

TEMP TRANSFER EFFECTIVE
DATE

TEMP TRANSFER EXPIRATION
DATE

M E M O R A N D U M

TO: MAYRA MARTINEZ

FROM: CHRIS COLE

DATE: February 2, 2022

REFERENCE: LIQUOR LICENSE RENEWAL
SICHANH LIQUOR STORE
812 FLINDT DRIVE

Discussion: Per your request I have accessed the department computer for calls of interest to the aforementioned establishment. The calls are as follows:

	2-11-2020 to 2-26-2021	2-27-2021 to 1-30-2022
INCIDENTS		
911 Hang Up	1	1
Accident	1	0
Burglar Alarm	1	1
Business Security	6	6
Citizen Assist	1	1
Interpretation	0	1
Keys Locked in Car	1	1
Parking Complaint	1	0
PR/Talk/Presentation	2	12
Station Assisgnment	0	1
Street Beat	0	2
Vehicle Stop	2	7
ARRESTS	none	none

Recommendation: Approval of liquor license.

Staff Summary

3/7/2022

Agenda Item # B.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Mayra Martinez, City Clerk

SUBJECT: Buy Local Information

BACKGROUND: Early in 2011 during a Study Session discussion Council asked staff to look at putting together some analysis information regarding the amount of purchases made locally. We have pulled that information together and a provided a summary of purchases identified in the current list of bills to be approved that are purchased locally (within the City of Storm Lake), within Buena Vista County, and outside of Buena Vista County are presented here for Council's review. This information is presented for for both the City and King's Pointe's bills.

As the reader reviews the information they should note the following key notes:

- Costs associated with any major capital project (those bid under the State of Iowa Bid Law) are excluded from the calculation
- Costs associated with travel is excluded from the calculation and %
- Costs associated with payroll is excluded from the calculation and %
- In some cases there is only one vendor or an item is only available from vendors outside of the City limits and/or Buena Vista County – we have not identified these
- Some departments have fairly minor budgets and a major purchase can skew the % and or amount for a given review period (For Example: the Airport may have normally \$4,000 - \$6,000 in expenses until they purchase Jet Fuel or Av Gas which can be \$10,000 + and as a vendor who is not local this can skew the information for that review period)
- Local has been determined to be has an office front in the

area and based on where the office front is located for local vs. BV County (For Example: Wal-Mart is considered local since they have a store in Storm Lake even though their headquarters is not located here)

As with all analytical data it is possible to interpret the numbers in a variety of ways and as we move forward we would be happy to provide further detail and or revise the way in which we show the data. Likewise if you have any questions or concerns please don't hesitate to contact city staff.

FISCAL IMPACT:

Breakout	Calculated Expenses
Buena Vista County	\$ 6,719.43
Contract/Agreement	\$ 11,305.00
Local	\$ 27,991.33
Non- Local	\$ 79,965.57
Payroll/Refunds/Pyrl Tax & Ins	\$ 197,658.31
Total Expenses	\$ 323,639.64
Supporting Documents Attached	

RECOMMENDATION: Review Buy Local Information

ATTACHMENTS:

Description	Type
Project Activity Report	Backup Material

Summary

Project Summary							
Project Number	Project Name	Total Budget	Date Range Budget	Beginning Balance	Total Activity	Ending Balance	Budget Remaining
01112-0019	WasteWater Treatment Facility Wetlan...	1,173,565.00	0.00	1,170,187.96	0.00	1,170,187.96	3,377.04
01112-0020	10th & Ontario StormWater Improvem...	1,753,734.33	0.00	1,752,412.45	0.00	1,752,412.45	1,321.88
01112-0021	4th & Oats StormWater Improvements	832,997.63	0.00	833,347.35	0.00	833,347.35	-349.72
OP1.122814	Richland Street, Phase 2 Improvements	165,500.00	165,500.00	171,515.75	0.00	171,515.75	-6,015.75
OP1.125106	BRIC	11,560,280.00	11,560,280.00	98,516.49	8,000.00	106,516.49	11,453,763.51
16-19284	4th & Bartion Storm Water Improvemen...	760,113.88	0.00	757,662.80	0.00	757,662.80	2,451.08
18-CF-004	United Community Health Service Center	600,000.00	0.00	561,683.60	0.00	561,683.60	38,316.40
19-22797	Memorial Lift Station Improvements	2,533,320.00	877.16	2,101,400.41	0.00	2,101,400.41	431,919.59
20-23848	Storm Lake WTP- Electrical MCC Replac...	268,494.81	0.00	271,167.99	0.00	271,167.99	-2,673.18
20-24387	Radio Park Lift Station Replacement	568,639.68	568,639.68	423,390.49	0.00	423,390.49	145,249.19
20-HSG-022	2021 Housing Sustainability Project	110,812.00	110,812.00	86,614.12	3,305.00	89,919.12	20,892.88
35665	1st & Mae Street	764,059.53	0.00	762,737.66	0.00	762,737.66	1,321.87
8406	7th & Geneseo St Sanitary Sewer Impro...	410,306.35	0.00	408,984.48	0.00	408,984.48	1,321.87
IA0091	SL Elevated Water Storage- Tower #5	541,762.00	541,762.00	0.00	0.00	0.00	541,762.00
New 2	FEMA Hazard Mitigation Assistance (W...	8,000.00	8,000.00	0.00	0.00	0.00	8,000.00
OP1.125220	4th Street Watermain Improvement Pro...	58,350.00	58,350.00	39,005.00	0.00	39,005.00	19,345.00
P11.112742	North Central SW Phase II	1,854,441.25	0.00	1,853,147.38	0.00	1,853,147.38	1,293.87
P11.117908	Michigan Street Parking Lot Reconstruct...	408,199.80	0.00	453,347.70	0.00	453,347.70	-45,147.90
P11.118940	Oneida Street Reconstruction from RR t...	2,567,760.12	4,406.76	2,457,059.98	0.00	2,457,059.98	110,700.14
P11.119679	FEMA Lake Bank Restoration	117,831.01	0.00	123,185.51	0.00	123,185.51	-5,354.50
P11.120411	Highway 7/110 Traffic Lane/Signalization	4,598,729.85	229,936.50	235,719.62	0.00	235,719.62	4,363,010.23
P11.120478	Tulip Lane SW Improvements	443,607.50	16,739.92	440,789.42	0.00	440,789.42	2,818.08
P11.120650	2020 Expansion Blvd Improvements	1,125,878.60	90,070.38	1,161,566.01	0.00	1,161,566.01	-35,687.41
P11.122266	7th Street Sewer Lining/2021 CIPP	514,861.25	514,861.25	483,692.65	0.00	483,692.65	31,168.60
T51.119823	Runway 13/31 & Taxiway Lighting	459,190.70	0.00	459,190.70	0.00	459,190.70	0.00
Urban20WQI-004	SLHS Courtyard Conservation	119,097.86	119,097.86	115,439.86	0.00	115,439.86	3,658.00
Report Total:		34,319,533.15	13,989,333.51	17,221,765.38	11,305.00	17,233,070.38	17,086,462.77

Group Summary						
Group	Total Budget	Date Range Budget	Beginning Balance	Total Activity	Ending Balance	Budget Remaining
Airport Projects	459,190.70	0.00	459,190.70	0.00	459,190.70	0.00
ARPA Project	541,762.00	541,762.00	0.00	0.00	0.00	541,762.00
Building Resilient Infrastructure and Co...	11,560,280.00	11,560,280.00	98,516.49	8,000.00	106,516.49	11,453,763.51
Economic Development	947,740.87	229,909.86	886,923.09	3,305.00	890,228.09	57,512.78
National Resiliency Disaster Grant Proje...	8,507,686.72	531,601.17	8,462,962.15	0.00	8,462,962.15	44,724.57
Sanitary Sewer Projects	3,109,959.68	577,516.84	2,524,790.90	0.00	2,524,790.90	585,168.78
Street Construction	8,866,068.37	489,913.64	4,479,209.06	0.00	4,479,209.06	4,386,859.31
Water Project	326,844.81	58,350.00	310,172.99	0.00	310,172.99	16,671.82
Report Total:	34,319,533.15	13,989,333.51	17,221,765.38	11,305.00	17,233,070.38	17,086,462.77

Staff Summary

3/7/2022

Agenda Item # C.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Tyler Gibbins, Staff Accountant

SUBJECT: **Motion To Approve Sunrise Pointe Golf Course Hole Sponsorship Agreements**

BACKGROUND: In the spring of 2021, the golf committee and members of the grounds crew determined the existing hole makers are in disarray and began planning and designing replacements. The markers will be constructed out of Granite to increase their longevity.

In order to fund the upgrade, the golf committee have been collecting hole sponsorships from local families and business. These agreements allow the sponsor to have their name/logo on a 6" x 8" plaque on a specified hole maker at Sunrise Pointe Golf Course.

The sponsors have provided a \$1,000 contribution for the placement of their plaque for four (4) years. The four (4) year term begins once the hole marker installation is complete in the spring of 2022.

All 18 sponsorships have been collected, 15 of which were previously approved:

- Storm Lake United
- Rebnord Technologies
- Loew's Carpet One
- Thrivent Financial
- Laven's Monuments
- Edwards Storm Lake
- Villager Restaurant
- Holzhauer Ford Lincoln
- Goettsch Dispatch Inc
- Tyler Wendt Family
- Stille Pierce & Pertzborn Insurance Services
- Melander's Appliances

United Bank of Iowa
Central Bank
Ripke Lawn & Landscape

The remaining 3 needing council approval:
Wiese Plumbing & Heating
Brew Oil, LLC
Dr. Dave & Tonya Archer

FISCAL IMPACT:

Total collection of sponsorship agreements is \$18,000 for installation and maintenance for 4 years beginning on the installation date, spring of 2022.

RECOMMENDATION:

Approve the 3 remaining hole sponsorship agreements.

ATTACHMENTS:

Description	Type
📎 Sponsorship Agreements	Contract



Sponsorship Agreement



Sponsorship agreement (the "agreement") is effective 1/13/22

Between: The City of Storm Lake dba Sunrise Pointe Golf Course (the "Organizer"),
620 Erie Street, PO Box 1086, Storm Lake, IA 50588.

And: Sponsor Name: Wiese Plumbing & Heating, Inc. (the "Sponsor"),
Sponsor Address: 1400 Michigan St., Storm Lake
Sponsor Phone: 712-732-4044 Email: Wieseinc@mediacommb.net

The Organizer and the Sponsor agree to the following:

WHEREAS, the Organizer will construction a hole maker at Sunrise Pointe Golf Course with a plaque signifying the Sponsor's trademark.

WHEREAS, the Organizer will collect a donation of one thousand dollars (\$1,000) prior to the installation of the plaque.

WHEREAS, the Organizer will post and maintain the plaque for four (4) years. The four-year term of this sponsorship will begin after the construction and installation of the hole marker.

WHEREAS, the Sponsor will provide the Organizer a donation of one thousand dollars (\$1,000) for a four-year (4) term at the time of execution of this sponsorship.

WHEREAS, the Organizer shall have the right to use the Sponsor's trademarks on a hole marker located at Sunrise Pointe Golf Course and promotional activities.

WHEREAS, the Sponsor will provide an electronic version of their trademark to City Hall at the time of execution of this sponsorship.

NOW, THEREFORE, in consideration of the mutual agreements and promises contained herein, the parties agree to execute the agreement.

CITY OF STORM LAKE, IOWA

By: _____

Printed Name: _____

Date: _____

Sponsor Wiese Plumbing & Heating, Inc.

By: Eric Wiese

Printed Name: Eric Wiese

Date: 1/13/22

Role Req: 1. ___ SR or REG 2. ___ SR or REG 3. ___ SR or REG 4. ___ SR or REG

* SR stand for Senior (front) Tee Marker and REG stands for the Regular (back) Tee Marker.

** If we have multiple requests for the same locations, a drawing will be completed.



Sponsorship Agreement



Sponsorship agreement (the "agreement") is effective _____.

Between: The City of Storm Lake dba Sunrise Pointe Golf Course (the "Organizer"),
620 Erie Street, PO Box 1086, Storm Lake, IA 50588.

And: Sponsor Name: BREW OIL LLC (the "Sponsor"),
Sponsor Address: 143 S COVE DR STORM LAKE IA 50588
Sponsor Phone: 712-299-0838 Email: info@brewoil.co

The Organizer and the Sponsor agree to the following:

WHEREAS, the Organizer will construction a hole maker at Sunrise Pointe Golf Course with a plaque signifying the Sponsor's trademark.

WHEREAS, the Organizer will collect a donation of one thousand dollars (\$1,000) prior to the installation of the plaque.

WHEREAS, the Organizer will post and maintain the plaque for four (4) years. The four-year term of this sponsorship will begin after the construction and installation of the hole marker.

WHEREAS, the Sponsor will provide the Organizer a donation of one thousand dollars (\$1,000) for a four-year (4) term at the time of execution of this sponsorship.

WHEREAS, the Organizer shall have the right to use the Sponsor's trademarks on a hole marker located at Sunrise Pointe Golf Course and promotional activities.

WHEREAS, the Sponsor will provide an electronic version of their trademark to City Hall at the time of execution of this sponsorship.

NOW, THEREFORE, in consideration of the mutual agreements and promises contained herein, the parties agree to execute the agreement.

CITY OF STORM LAKE, IOWA

Sponsor _____

By: _____

By: _____

Printed Name: _____

Printed Name: _____

Date: _____

Date: _____

Role Req: 1. ____ SR or REG 2. ____ SR or REG 3. ____ SR or REG 4. ____ SR or REG

* SR stand for Senior (front) Tee Marker and REG stands for the Regular (back) Tee Marker.

** If we have multiple requests for the same locations, a drawing will be completed.



Sponsorship Agreement



Sponsorship agreement (the "agreement") is effective 2/15/22

Between: The City of Storm Lake dba Sunrise Pointe Golf Course (the "Organizer"),
620 Erie Street, PO Box 1086, Storm Lake, IA 50588.

And: Sponsor Name: Dr Dave & Tonya Archer (the "Sponsor"),
Sponsor Address: 117 Waterloo Ave, Storm Lake
Sponsor Phone: 712 730 8165 Email: david.archer@unitypointe.org

The Organizer and the Sponsor agree to the following:

WHEREAS, the Organizer will construction a hole maker at Sunrise Pointe Golf Course with a plaque signifying the Sponsor's trademark.

WHEREAS, the Organizer will collect a donation of one thousand dollars (\$1,000) prior to the installation of the plaque.

WHEREAS, the Organizer will post and maintain the plaque for four (4) years. The four-year term of this sponsorship will begin after the construction and installation of the hole marker.

WHEREAS, the Sponsor will provide the Organizer a donation of one thousand dollars (\$1,000) for a four-year (4) term at the time of execution of this sponsorship.

WHEREAS, the Organizer shall have the right to use the Sponsor's trademarks on a hole marker located at Sunrise Pointe Golf Course and promotional activities.

WHEREAS, the Sponsor will provide an electronic version of their trademark to City Hall at the time of execution of this sponsorship.

NOW, THEREFORE, in consideration of the mutual agreements and promises contained herein, the parties agree to execute the agreement.

CITY OF STORM LAKE, IOWA

By: _____

Printed Name: _____

Date: _____

Sponsor Dr Dave & Tonya Archer

By: T. Archer

Printed Name: DAVE ARCHER

Date: 2/15/22

Role Req: 1. ☐ SR or REG 2. ☐ SR or REG 3. ☐ SR or REG 4. ☐ SR or REG

* SR stand for Senior (front) Tee Marker and REG stands for the Regular (back) Tee Marker.

** If we have multiple requests for the same locations, a drawing will be completed.

Staff Summary

3/7/2022

Agenda Item # D.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Keri Navratil, City Manager

SUBJECT: **Motion To Approve Engagement Letter With Ahlers & Cooney, P. C. For Legal Services Related To Economic Development**

BACKGROUND: This engagement letter confirms that Ahlers & Cooney, P. C. has agreed to represent the City of Storm Lake in reference to Vetter Equipment Company Development Agreement and Brash, LLC Development Agreement and any related Urban Renewal Plans.

FISCAL IMPACT: Fees noted in the engagement letter

RECOMMENDATION: Approve entering into the Engagement Letter with Ahlers & Cooney P. C. for legal services related to Economic Development Projects.

ATTACHMENTS:

Description	Type
Engagement Letter	Letter



Ahlers & Cooney, P.C.

Attorneys at Law

100 Court Avenue, Suite 600
Des Moines, Iowa 50309-2231

Phone: 515-243-7611

Fax: 515-243-2149

www.ahlerslaw.com

Jenna H.B. Sabroske

515.246.0328

jsabroske@ahlerslaw.com

February 25, 2022

Email: dutfield@stormlake.org

Lee Dutfield
Development Services Specialist
City of Storm Lake
620 Erie Street
Storm Lake, IA 50588

RE: Engagement Letter – Vetter Equipment Company Development Agreement and
Brash, L.L.C. Development Agreement and Related Urban Renewal Plan

Dear Lee:

The purpose of this Engagement Agreement (“Agreement”) is to disclose and memorialize the terms and conditions under which Ahlers & Cooney, P.C. will represent the City of Storm Lake, Iowa (the “City”) in connection with a development agreement with Vetter Equipment Company and a development agreement with Brash, L.L.C. (the “Development Agreements”), and a related Urban Renewal Plan (“Plan”) to authorize the Vetter Equipment Company development agreement as an urban renewal project, all in accordance with Iowa Code Chapter 403.

SCOPE OF ENGAGEMENT

We agree to perform the following services for the fees we charge under this Agreement:

1. Prepare the Development Agreements, per the terms provided to us by the City;
2. Prepare proceedings to be used for setting the date(s) of a public hearing on the Development Agreements, and proceedings for the date(s) fixed for the public hearing and adoption of the Development Agreements;
3. If requested by the City, draft the Plan (“Plan”) in accordance with Iowa Code Chapter 403;
4. Prepare proceedings for a resolution setting the dates of a consultation and public hearing on the Plan and to be used on the date fixed for a public hearing and adoption of the Plan;

5. Prepare an ordinance for the division of revenues within the Urban Renewal Area related to the Plan under Iowa Code Section 403.19 (“tax increment financing” or “TIF”) (if necessary);
6. Prepare letters of instructions, notices of meetings, and partial agendas for City Council proceedings related to the Development Agreements, Plan, and any TIF ordinance;
7. Answer questions and advise City staff and the Council throughout the adoption process for the Development Agreements and Plan; and
8. Complete transcript file records related to the adoption of the Development Agreements and Plan

Our duties under this Agreement are limited to those expressly set forth above. Absent a separate engagement agreement regarding one or more of the following services, the services provided and the fees charged hereunder do not include:

1. Preparing the legal descriptions to be used in the Development Agreements or Plan;
2. Defending any legal challenges to or arising out of the Development Agreements or Plan;
3. Confirming or calculating any potential tax increment anticipated within the Urban Renewal Area related to the Plan, or pursuant to a given project, or otherwise acting in a financial advisory role;
4. Administering the Development Agreements after the adoption of the Development Agreements or administering the Plan after its adoption (and after completion of the transcript files on the Development Agreements and Plan); or
5. Any bond (finance) related services.

It is not anticipated that it will be necessary for us to personally attend Council meetings in order to accomplish our work. We will be coordinating our services with you and other City staff, as directed by the City. In the event that public hearings or litigation should occur in the course of this matter, we would expect the same to be handled by the City Attorney, unless special arrangements are made for our participation.

ATTORNEY-CLIENT RELATIONSHIP

As confirmed by the execution of this Agreement, the City will be our client and an attorney-client relationship will exist between us for purposes of providing the services listed above. Our services are limited to those contracted for in this letter and the City’s execution of this Agreement will constitute an acknowledgement of those limitations. The Firm’s engagement under this Agreement will end when the Development Agreements and Plan are adopted/approved by the Council and our final invoice has been paid.

FEES

I will be the attorney chiefly responsible for providing you with these legal services. However, if efficient and appropriate, I may call on other attorneys and legal assistants from time to time. The fees will be based on the hours worked by firm personnel at their hourly rates in effect at the time the work is performed. Our rates are generally adjusted on an annual basis, beginning January 1 of each year. My current hourly rate is \$220, and my legal assistant's rate is \$125. It is difficult to estimate the total cost for the work, because we charge by the hour and there are many variables that impact the number of hours spent on the work. Expenses will be billed at the amount incurred. Our statement for services and expenses will be due and payable upon receipt of the invoice, which in most instances, is monthly. Should you have any questions about a statement or a fee, please do not hesitate to call. We do reserve the right to withdraw from representation for any reason, including failure to pay the monthly statement in accordance with this policy. If, for any reason, the County terminates the engagement governed by this Agreement before the completion of the services described herein, we will bill the County for the services rendered as of the date of termination based on the hourly rates of those who provided services.

RECORDS

At the City's request, any documents furnished by the City will be returned promptly upon receipt of payment for outstanding fees and client charges. Our own files, including lawyer work product, pertaining to the above referenced project will be retained by us. For various reasons, including the minimization of unnecessary storage expenses, we reserve the right to dispose of any documents or other material retained by us after the termination of this Agreement.

APPROVAL

Please carefully review the terms and conditions of this Agreement. **If this Agreement accurately reflects the terms of this particular engagement, please obtain approval by the City Council, and execute, date, and return to me the enclosed copy of this Agreement. Please retain the original for your file.**

If you have questions regarding any aspect of the above or our representation, please do not hesitate to contact me. As always, we appreciate the opportunity to represent the City and we look forward to working with you on this project.

Ahlers & Cooney, P.C.

Sincerely,

By:

A handwritten signature in black ink that reads "Jenna H.B. Sabroske". The signature is written in a cursive, flowing style.

Jenna H.B. Sabroske

Accepted and approved on behalf of the City Council of the City of Storm Lake, Iowa*

By: _____ Dated: _____

Title: _____

*Authorized by action of the governing body, approved on _____, 2022.

Staff Summary

3/7/2022

Agenda Item # E.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Chris Cole, Police Chief

SUBJECT: **SLPD City Code Enforcement Summary**

BACKGROUND: 2/14/2022 TO 3/1/2022

White Summons – 77

CCE
Accumulate Junk – 18
Accumulate Trash – 5
Junk Vehicles – 9
Accumulate used tires – 1
Parking restricted to hard surfaces – 19
CCE – 2
Total: 52

0 Citations

FISCAL IMPACT: None

RECOMMENDATION: None

Staff Summary

3/7/2022

Agenda Item # 3.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Brian Oakleaf, Finance Director

SUBJECT: **Motion Setting Public Hearing on Fiscal Year 2022-2023 Budget**

BACKGROUND: This agenda item will set the Public Hearing for the Fiscal Year 2022-2023 Budget for Monday, March 21st, 2022 at 5:00 P.M. in City Council Chambers.

State of Iowa Code requires that the City hold a public hearing on any Budget or Budget Amendment prior to adoption. Notice of the public hearing will be published in the newspaper as required by State Code.

Upon conclusion of the Public Hearing, the Budget, which received concurrence from Council at previous Budget Workshops will be submitted for adoption.

FISCAL IMPACT: The fiscal impact to set the public hearing is the cost of publication.

RECOMMENDATION: Set the public hearing for Monday, March 21st, 2022 at 5:00 P.M.

Staff Summary

3/7/2022

Agenda Item # 4.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Keri Navratil, City Manager

SUBJECT: **Motion to Approve Addition to 2021-2022 Capital Improvement Plan**

BACKGROUND: This agenda item would continue the revitalization and expansion of the City's recreational opportunities for the community and our visitors.

During the Budget Workshops, Council was informed that steps were being taken to add recreational equipment rentals at various City locations. After discussions with vendors and local stakeholders, a quote was obtained for the addition of kayaks, paddleboats, canoes and other possibilities along with the technology and support needed for safe and easy access.

This action would hopefully be a first step in a larger process, utilizing the access and management of King's Pointe to roll the program out this summer and provide feedback and information for a continued rollout throughout the Community. An additional not to exceed amount of \$90,000 is requested to be added to the current fiscal year CIP with a goal of having the services up and running for the upcoming season.

FISCAL IMPACT: The proposal would not exceed \$90,000 and would be paid for through Culture and Recreation Special Revenue Funds.

RECOMMENDATION: Approve the addition to the Fiscal Year 2021-2022 Capital Improvement Plan.

ATTACHMENTS:

Description	Type
Additional CIP Items	Backup Material

Koloni Inc.

158 Touhy Ct
Des Plaines, IL 60018 US
kate@koloni.me
<http://www.koloni.me>

**INVOICE**

BILL TO	SHIP TO	SHIP VIA	Local Truck	INVOICE	1248
Kings Pointe Resort	Kings Pointe Resort			DATE	02/27/2022
1520 East Lakeshore Drive	1520 East Lakeshore Drive			TERMS	Net 30
Storm Lake, IA 50588 USA	Storm Lake, IA 50588 USA			DUE DATE	03/30/2022

SALES REP.
Brian

DATE		DESCRIPTION	QTY	RATE	AMOUNT
	Priority Black Gotham	Smart lock, Bike	10	700.00	7,000.00
	Fleet Rack - One Sided - 10 Bikes	Fleet Rack - One Sided - 10 Bikes	10	150.00	1,500.00
	Paddle Boat	smart lock included	4	800.00	3,200.00
	Canoe	smart lock included	8	950.00	7,600.00
	kayak	smart lock included	12	650.00	7,800.00
	Annual Software Fee	1 year of software & service fees (Fleet)	10	1,300.00	13,000.00
	Annual Software Fee	1 year of software & serve fees (paddles/water)	24	1,350.00	32,400.00
	Sales Tax	Sales Tax calculated by AvaTax on Thu 03 Mar 21:55:14 UTC 2022	1	0.00	0.00

Thank you for your business! I take credit cards, ACH, and Apple payment options!

BALANCE DUE

\$72,500.00

Staff Summary

3/7/2022

Agenda Item # 5.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Ron Covert, Water Quality Operations Supervisor

SUBJECT: **Motion Setting the Public Hearing for the 2022 4th Street Watermain Improvements Plans, Specifications, and Form of Contract**

BACKGROUND: The 4th Street watermain east of Vilas Road currently is not 'looped' into other portions of the system, resulting in stagnant water and water quality concerns. This dead-end configuration routinely requires additional staff operational support to address the water quality of the watermain.

The recent construction of the Sunrise Pointe development has extended the watermain system from E. Milwaukee Avenue to 4th Street. This has provided a cost-effective opportunity to connect the 4th Street watermain to the watermain within the Sunrise Pointe development and complete the 'loop'.

The intended project also includes construction of a bulk water sales filling station and related site/utility improvements east of the street department shop. The filling station will provide 24-hr bulk water access to the public, increase water accountability, and reduce staff time associated with the public's accessing of bulk water.

The Engineer's Opinion of Probable Cost is \$179,021.00.

To move forward with the bidding process, a public hearing is planned for April 18, 2022 at 5:00 p.m. in City Council Chambers.

FISCAL IMPACT: The Engineer's Opinion of Probable Construction Cost is \$179,021.00.

RECOMMENDATION: Approve setting a Public Hearing for 5:00 p.m. on April 18, 2022 in City Council Chambers.

ATTACHMENTS:

Description	Type
<div>📄</div> <div>Notice of Public Hearing</div>	Backup Material
<div>📄</div> <div>Project Manual</div>	Backup Material
<div>📄</div> <div>Engineer's Estimate of Construction Cost</div>	Backup Material

NOTICE OF PUBLIC HEARING

2022 4th Street Watermain Improvements City of Storm Lake

Public Hearing on Proposed Contract Documents and Estimated Costs for Repair or Improvement. A public hearing will be held by the City of Storm Lake on the proposed contract documents (plans, specifications and form of contract) and estimated cost for the improvement at its meeting at 5:00 P.M. on April 18, 2022, at 620 Erie Street, in Storm Lake, Iowa.

Project Description: Construction of 180 LF of 8" PVC watermain and the installation of a bulk water sales system. This includes the removal of the existing pavement, excavation and installation of the watermain, rehabilitation of the pavement, bulk water sales system installation, and related improvements.

This Notice is given by authority of the
City of Storm Lake

Mayra Martinez
City Clerk



PROJECT MANUAL

2022 4th Street Watermain Improvements

City of Storm Lake

218 11th Street SW Plaza • Spencer, IA 51301
Ph: (712) 580-5075



Bolton-Menk.com



SECTION 00005 – CERTIFICATION

PROJECT MANUAL

for

2022 4th Street Watermain Improvements

City of Storm Lake

	<p>I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.</p> <p> _____ Date: <u>2/15/2022</u></p> <p>Joshua A. Pope License No. 23000 My renewal date is 12/31/2023 Pages or sheets covered by this seal: <u>All Pages</u></p>
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SECTION 00010 - TABLE OF CONTENTS

2022 4th Street Watermain Improvements City of Storm Lake

CONTRACT DOCUMENTS:

PROJECT MANUAL:

Introductory Information, Bidding Requirements, Contract Forms and Conditions of Contract

- 00005 - CERTIFICATION PAGE
- 00010 - TABLE OF CONTENTS
- 00100 - NOTICE TO BIDDERS
- 00200 - INSTRUCTIONS TO BIDDERS
- 00410 - PROPOSAL
- 00420 - BID BOND
- 00450 - INFORMATION REQUESTED FROM LOW BIDDER
- 00500 - CONTRACT
- 00610 - PERFORMANCE, PAYMENT AND MAINTENANCE BOND
- 00800 - SPECIAL PROVISIONS
- 00900 - NOTICE OF AWARD
- 00910 - NOTICE TO PROCEED
- 00920 - LETTER OF TRANSMITTAL

Technical Specifications

- 02510 - WATER SUPPLY FILL STATION
- 09900 - PAINTING
- 15060 - PROCESS PIPING AND PIPE FITTINGS
- 15150 - METERS
- 15410 - PLUMBING PIPING
- 15430 - PLUMBING SPECIALTIES

DRAWINGS (UNDER SEPARATE COVER):

12 sheets numbered A.01 through R.01, inclusive, dated February 15, 2022, and with each sheet bearing the following general title:

2022 4th Street Watermain Improvements
City of Storm Lake

APPENDIX

Geotechnical Engineering Report

**This project is based on
SUDAS STANDARD SPECIFICATIONS, 2022 EDITION
unless modified herein.**

*******END OF SECTION*******

SECTION 00100 - NOTICE TO BIDDERS

2022 4th Street Watermain Improvements
City of Storm Lake
Storm Lake, IA 50588

Time and Place for Filing Sealed Proposals. Sealed bids for the work comprising the repair or improvement as stated below must be filed before 2:30 P.M. on March 9, 2022, in the office of the City Clerk, 620 Erie Street, Storm Lake, IA 50588.

Time and Place Sealed Proposals Will be Opened and Considered. Sealed proposals will be opened and bids tabulated at 2:30 P.M. on March 9, 2022, in the office of the City Clerk, City of Storm Lake, 620 Erie Street, Storm Lake, IA 50588 with the results being reported to the City of Storm Lake at its meeting at 5:00 P.M. on March 21, 2022 at which time the City Council may take action on the proposals submitted or at such time as may then be fixed. The City of Storm Lake City Council reserves the right to reject any or all bids, to waive informalities or technicalities in any bid, and to enter into such contract, or contracts, as it shall deem to be to the best interest of the City of Storm Lake.

Time for Commencement and Completion of Work. Work on the improvement shall commence upon approval of the contract by the City Council and as stated in the Notice to Proceed. All work under the Contract must be substantially complete on or before August 12, 2022. Liquidated damages as set forth in Section 00500 – Contract.

Bid Security. Each bidder shall accompany its bid with bid security, as defined in Iowa Code Section 26.8, as security that the successful bidder will enter into a contract for the work bid upon. The bidder's security shall be in an amount equal to 5 percent (5%) of the total amount of the bid. The bid shall contain no condition except as provided in the specifications.

If the bidder fails to execute the contract and to furnish an acceptable performance, payment, and maintenance bond or provide a Certificate of Insurance within ten (10) days after acceptance of the bid by the City, the bid security may be forfeited or cashed by the City as liquidated damages.

Contract Documents. Copies of the project documents are available for a price of \$25 per set. This fee is refundable, provided the plans and specifications are returned complete and in reusable condition, and they are returned within fourteen (14) calendar days after the award of the project. Please make your check payable to Bolton & Menk, Inc. and send it to 218 11th Street SW, Spencer, IA 51301, (712) 580-5075, fax (515) 233-4430. Complete digital project bidding documents are available at www.bolton-menk.com or www.questcdn.com. You may view the digital plan documents for free by entering Quest project # 8133017 on the website's Project Search page. Documents may be downloaded for \$0.00. Please contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in free membership registration, viewing, downloading, and working with this digital project information.

Preference of Products and Labor. By virtue of statutory authority, a preference will be given to products and provisions grown and coal produced within the State of Iowa, to the extent lawfully required under Iowa statutes.

Sales Tax Exemption Certificates. The bidder shall not include sales tax in the bid. The City of Storm Lake will distribute tax exemption certificates and authorization letters to the Contractor and all subcontractors who are identified. The Contractor and subcontractor may make copies of the tax exemption certificates and provide a copy to each supplier providing construction materials. These tax exemption certificates and authorization letters are applicable only for this specific project under the Contract.

PROJECT DESCRIPTION: This project is for the construction of 180 LF of 8" PVC watermain for the elimination of dead ends and the installation and set up of a bulk water sales system at the west end of the same block and the installation of a 3" water service, meter, backflow preventer and hydrant to the City shop building. This includes the removal of the existing pavement, excavation and installation of the watermain, rehabilitation of the pavement, bulk water sales system installation, exterior and interior work associated with the 3" service, along with traffic control, granular driveway restoration, paved street and driveway replacement and turf restorations.

The Notice is given by order of the City Council of the City of Storm Lake

Mayra Martinez, City Clerk

SECTION 00200 - INSTRUCTIONS TO BIDDERS

2022 4th Street Watermain Improvements City of Storm Lake

The work comprising the above referenced project shall be constructed in accordance with the SUDAS Standard Specifications, 2022 Edition and as further modified by the supplemental specifications and special provisions included in the contract documents. The terms used in the contract version of the documents are defined in said Standard Specifications. Before submitting a bid, please review the requirements of Division One, General Provisions and Covenants. Please be certain that all documents have been completed properly as failure to complete and sign all documents and to comply with the requirements listed below can cause a submitted bid not to be read.

ARTICLE 1 - BID SECURITY

- 1.01 The bid security must be in the minimum amount of 5% of the total bid amount including all add alternates (do not deduct the amount of deduct alternates).
- 1.02 Bid security other than said bid bond shall be in accordance with Chapter 26 of the Iowa Code.
- 1.03 Bid security shall be in the form of a cashier's check or certified check drawn on a state chartered or federally chartered bank; or a certified share draft drawn on a state chartered or federally chartered credit union; or a bidder's bond with corporate surety satisfactory to the City of Storm Lake, hereinafter called the "Jurisdiction".
- 1.04 The bid bond must be submitted on the enclosed Bid Bond form as no other bid bond forms are acceptable. All signatures on the bid bond must be original signatures in ink; electronic, copies, or facsimile (fax) of any signature on the bid bond is not acceptable.

ARTICLE 2 - SUBMISSION OF THE PROPOSAL AND IDENTITY OF BIDDER

- 2.01 The proposal shall be sealed in an envelope, properly identified as the Proposal with the project title and the name and address of the bidder. The bid security shall be sealed in a separate envelope identified as the "Bid Security" and attached to the outside of the bid proposal envelope. The Proposal and Bid security shall be deposited with the Jurisdiction at or before the time and at the place provided in the Notice to Bidders. It is the sole responsibility of the bidder to see that its proposal is delivered to the Jurisdiction prior to the time for opening bids along with the appropriate bid security. Any proposal received after the scheduled time for the receiving of proposals will be returned to the bidder unopened and will not be considered.
- 2.02 The following documents shall be completed, signed and returned in the Proposal envelope. The bid cannot be read if any of these documents are omitted from the Proposal envelope.
 - A. PROPOSAL – Complete each of the following parts:
 - Part B – Acknowledgment of Addenda, if any have been issued;
 - Part C – Bid Items, Quantities and Prices
 - Part F – Additional Requirements;
 - Part G – Identity of Bidder;
- 2.03 Sign the proposal. The signature on the proposal and all proposal attachments must be an original signature in ink signed by the same individual who is the Company Owner or an authorized Officer of the Company; copies or facsimile of any signature will not be accepted.

- 2.04 Documents must be submitted as printed. No alterations, additions, or deletions are permitted. If the Bidder notes a requirement in the contract documents which the Bidder believes will require a conditioned or unsolicited alternate bid, the Bidder must immediately notify the Engineer in writing. The Engineer will issue any necessary interpretation by an addendum.
- 2.05 Division 1 - General Provisions and Covenants of the 2022 SUDAS Standard Specifications is modified as follows:
- A. Section 1020.1.09B, Unit Price Attachment.
- A computer generated unit price attachment may be submitted by the Bidder as specified by this Section.

ARTICLE 3 - PROSECUTION AND PROGRESS OF THE WORK

- 3.01 The work is located in the City of Storm Lake.

Work on the improvement shall commence upon approval of the contract by the City Council and as stated in the Notice to Proceed. All work under the Contract must be substantially complete as stated in Section 00500 Contract. Liquidated Damages will be assessed as detailed in the stated in Section 00500 - Contract.

- 3.02 Community Events.

Successful bidder will be required to coordinate with the owner and accommodate the owner's requirements for the following list of events:

None

- 3.03 Each successful bidder will be required to furnish a corporate surety bond in an amount equal to 100% of its contract price. Said bond shall be issued by a responsible surety approved by City of Storm Lake and shall guarantee the faithful performance of the contract, the terms and conditions therein contained, the prompt payment of all material and labor, protect and save harmless City of Storm Lake from claims and damages of any kind caused by the operations of the contract, and shall also guarantee the maintenance of the improvement caused by failures in materials and construction for a period of 4-year from and after acceptance of the work.
- 3.04 The City of Storm Lake, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42U.S.C. 2000d to 2000d-4 and title 49 Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that with any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

ARTICLE 4 - PREFERENCE OF PRODUCTS AND LABOR

- 4.01 In accordance with Iowa statutes, a resident bidder shall be allowed preference against a nonresident bidder from a state or foreign country provided that state or foreign country gives or requires any preference to bidders from that state or foreign country. This includes, but is not limited to any preference to bidders, the imposition of any type of labor force preference, or any other form of preferential treatment to bidders or laborers from that state or foreign country. The preference allowed shall be equal to the preference given or required by the state of foreign country in which the nonresident bidder is a resident. In the instance of a resident labor force preference, a nonresident bidder shall apply the same resident labor force preference to a public improvement in this state as would be required in the construction of a public improvement by the state or foreign country in which the nonresident bidder is a resident. If it is determined that this may cause denial of federal funds which would otherwise be available, or would otherwise be inconsistent with requirements of any federal law or regulation, this resident bidder preference shall be suspended, but only to the extent necessary to prevent denial of the funds or to eliminate the inconsistency with federal requirements.

ARTICLE 5 - TAXES

- 5.01 The City will issue a sales tax exemption certificate and authorization letters to the Contractor and all subcontractors for all materials purchased on the project. Tax exemption certificates are applicable only for the specific project for which the tax exemption certificate is issued.
- 5.02 The Contractor shall provide a listing to the City identifying all appropriate subcontractors qualified for use of the tax exemption certificate. The Contractor and subcontractors may make copies of the certificate and provide to each supplier providing construction material.
- 5.03 Income Tax:
- A. Successful Bidder is subject to payment of Iowa income tax on income from this work in amounts prescribed by law.
 - B. If successful bidder is a non-Iowa partnership, individual or association, Bidder shall furnish evidence prior to execution of contract that bond or securities have been posted with the Iowa Department of Revenue in the amount required by law.

******END OF SECTION******

SECTION 00410 - PROPOSAL

2022 4th Street Watermain Improvements City of Storm Lake

PROPOSAL: PART A – SCOPE

The City of Storm Lake, hereinafter called the "Jurisdiction", has need of a qualified contractor to complete the work comprising the below referenced repair or improvement. The undersigned Bidder hereby proposes to complete the work comprising the below referenced repair or improvement as specified in the contract documents, which are officially on file with the Jurisdiction, in the office of the City Clerk, at the prices hereinafter provided in Part C of the Proposal, for the improvements on 2022 4th Street Watermain Improvements.

PROPOSAL: PART B – ACKNOWLEDGMENT OF ADDENDA

The Bidder hereby acknowledges that all addenda become a part of the contract documents when issued and that each such addendum has been received and utilized in the preparation of this bid. The Bidder hereby acknowledges receipt of the following addenda by inserting the number of each addendum in the blanks below:

ADDENDUM NUMBER _____

ADDENDUM NUMBER _____

ADDENDUM NUMBER _____

ADDENDUM NUMBER _____

and certifies that said addenda were utilized in the preparation of this bid.

PROPOSAL: PART C – BID ITEMS AND QUANTITIES

UNIT BID PRICE CONTRACTS: The Bidder must provide the Unit Bid Price, the Total Bid Price, any Alternate Prices, and the Total Construction Costs on the Proposal Attachment: Part C – Bid Items and Quantities. In case of discrepancy, the Unit Bid Price governs. The quantities shown on the Proposal Attachment: Part C – Bid Items and Quantities are approximate only, but are considered sufficiently adequate for the purpose of comparing bids. The Total Construction Cost shall be used only for the comparison of bids. The jurisdiction shall only use the Total Construction Cost for determining the sufficiency of the bid security.

SEE INCLUDED PROPOSAL ATTACHMENT

PROPOSAL: PART D – GENERAL

The Bidder hereby acknowledges that the Jurisdiction, in advertising for public bids for this project reserves the right to:

1. Reject any or all bids. Award of the contract, if any, to be to the lowest responsible, responsive bidder; and
2. Reject any or all alternates in determining the items to be included in the contract. Designation of the lowest responsible, responsive bidder to be based on comparison of the total bid only, not including any alternates; and
3. Make such alterations in the contract documents or in the proposal quantities as it determines necessary in accordance with the contract documents after execution of the contract. Such alterations shall not be considered a waiver of any conditions of the contract documents, and shall not invalidate any of the provisions thereof; and

The Bidder hereby agrees to:

1. Enter into a contract, if this proposal is selected, in the form approved by the Jurisdiction, provide proof of registration with the Iowa Division of Labor in accordance with Chapter 91C of the Iowa Code, and furnish a performance, maintenance, and payment bond; and
2. Forfeit bid security, not as a penalty but as liquidated damages, upon failure to enter into such contract and/or to furnish said bond; and
3. Commence the work upon written Notice to Proceed; and
4. Substantially complete the work on or before as detailed in Section 00500 – Contract; and
5. Pay liquidated damages for noncompliance with said completion provisions at the rate detailed in Section 00500 – Contract for each thereafter that the work remains incomplete.

PROPOSAL: PART E – NON-COLLUSION AFFIDAVIT

The Bidder hereby certifies:

1. That this proposal is not affected by, contingent on, or dependent on any other proposal submitted for any improvement with the Jurisdiction; and
2. That no individual employed by the Bidder has employed any person to solicit or procure the work on this project, nor will any employee of the Bidder make any payment or agreement for payment of any compensation in connection with the procurement of this project; and
3. That no part of the bid price received by the Bidder was or will be paid to any person, corporation, firm, association, or other organization for soliciting the bid, other than the payment of their normal compensation to persons regularly employed by the Bidder whose services in connection with the construction of the project were in the regular course of their duties for the Bidder; and
4. That this proposal is genuine and not collusive or sham; that the Bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any bidder or person, to submit a sham bid or to refrain from bidding; and
5. That the bid has not in any manner, directly or indirectly, sought, by agreement or collusion, or communication or conference, with any person, to fix the bid price of the Bidder or of any other bidder; and
6. That all statements in this proposal are true; and
7. That the individual(s) executing this proposal have the authority to execute this proposal on behalf of the Bidder.

PROPOSAL: PART F – ADDITIONAL REQUIREMENTS

The Bidder hereby agrees to comply with the additional requirements listed below which are included in this proposal and identified as proposal attachments:

ITEM NO.	DESCRIPTION OF ATTACHMENT
1.	None

PROPOSAL: PART G - IDENTITY OF BIDDER

The Bidder shall indicate whether the bid is submitted by a/an:

☐ Individual,
Sole Proprietorship

Bidder

☐ Partnership

Signature

☐ Corporation

By

Name (Print/Type)

☐ Limited Liability Company

Title

☐ Joint-venture; all parties must join-in and
execute all documents

Street Address

☐ Other

City, State, Zip Code

The bidder shall enter its Public
Registration Number _____ - _____
issued by the Iowa Commissioner of Labor
Pursuant Section 91C.5 of the Iowa Code.

Telephone Number

**Type or print the name and title of the company's
owner, president, CEO, etc. if a different person
than entered above**

Failure to provide said Registration
Number shall result in the bid being read
under advisement. A contract will not be
executed until the Contractor is registered.

Name

Title

**NOTE: The signature on this proposal must be an original signature in ink; copies, facsimiles, or
electronic signatures will not be accepted.**

All bidders must submit the following completed form to the governmental body requesting bids per
875 Iowa Administrative Code Chapter 156.

Bidder Status Form

To be completed by all bidders

Part A

Please answer "Yes" or "No" for each of the following:

- ☐ Yes ☐ No My company is authorized to transact business in Iowa.
(To help you determine if your company is authorized, please review the worksheet on the next page).
- ☐ Yes ☐ No My company has an office to transact business in Iowa.
- ☐ Yes ☐ No My company's office in Iowa is suitable for more than receiving mail, telephone calls, and e-mail.
- ☐ Yes ☐ No My company has been conducting business in Iowa for at least 3 years prior to the first request for bids on this project.
- ☐ Yes ☐ No My company is not a subsidiary of another business entity or my company is a subsidiary of another business entity that would qualify as a resident bidder in Iowa.
If you answered "Yes" for each question above, your company qualifies as a resident bidder. Please complete Parts B and D of this form.
If you answered "No" to one or more questions above, your company is a non-resident bidder. Please complete Parts C and D of this form.

To be completed by resident bidders

Part B

My company has maintained offices in Iowa during the past 3 years at the following addresses:

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

You may attach additional sheet(s) if needed.

To be completed by non-resident bidders

Part C

1. Name of home state or foreign country reported to the Iowa Secretary of State: _____
2. Does your company's home state or foreign country offer preferences to bidders who are residents? ☐ Yes ☐ No
3. If you answered "Yes" to question 2, identify each preference offered by your company's home state or foreign country and the appropriate legal citation.

You may attach additional sheet(s) if needed.

To be completed by all bidders

Part D

I certify that the statements made on this document are true and complete to the best of my knowledge and I know that my failure to provide accurate and truthful information may be reason to reject my bid.

Firm Name: _____
Signature: _____ Date: _____

WORKSHEET: AUTHORIZATION TO TRANSACT BUSINESS

This worksheet may be used to help complete Part A of the Resident Bidder Status form. If at least one of the following describes your business, you are authorized to transact business in Iowa.

- ☐ Yes ☐ No My business is currently registered as a contractor with the Iowa Division of Labor.
- ☐ Yes ☐ No My business is a sole proprietorship and I am an Iowa resident for Iowa income tax purposes.
- ☐ Yes ☐ No My business is a general partnership or joint venture. More than 50 percent of the general partners or joint venture parties are residents of Iowa for Iowa income tax purposes
- ☐ Yes ☐ No My business is an active corporation with the Iowa Secretary of State and has paid all fees required by the Secretary of State, has filed its most recent biennial report, and has not filed articles of dissolution.
- ☐ Yes ☐ No My business is a corporation whose articles of incorporation are filed in a state other than Iowa, the corporation has received a certificate of authority from the Iowa Secretary of State, has filed its most recent biennial report with the Secretary of State, and has neither received a certificate of withdrawal from the Secretary of state nor had its authority revoked.
- ☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in this state and the statement has not been canceled.
- ☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in a state other than Iowa, has filed a statement of foreign qualification in Iowa and a statement of cancellation has not been filed.
- ☐ Yes ☐ No My business is a limited partnership or limited liability limited partnership which has filed a certificate of limited partnership in this state, and has not filed a statement of termination.
- ☐ Yes ☐ No My business is a limited partnership or a limited liability limited partnership whose certificate of limited partnership is filed in a state other than Iowa, the limited partnership or limited liability limited partnership has received notification from the Iowa Secretary of state that the application for certificate of authority has been approved and no notice of cancellation has been filed by the limited partnership or the limited liability limited partnership.
- ☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in Iowa and has not filed a statement of termination.
- ☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in a state other than Iowa, has received a certificate of authority to transact business in Iowa and the certificate has not been revoked or canceled.

2022 4th Street Watermain Improvements
City of Storm Lake

PROPOSAL ATTACHMENT: PART C – BID ITEMS AND QUANTITIES

This is a UNIT BID PRICE CONTRACT. The bidder must provide the Unit Bid Price, the total Bid Price, and the Total Bid Amount; in case of discrepancy, the Unit Bid Price governs. The Quantities shown on the Proposal Attachment: Part C – Bid Items and quantities are approximate only, but are considered sufficiently adequate for the purpose of comparing bids. The Jurisdiction shall only use the Total Base Bid Amount for comparison of bids

ITEM NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1	SUBBASE, MODIFIED, 6"	SY	200	\$	\$
2	REMOVAL OF KNOWN PIPE AND CONDUIT, WATERMAIN, 4"	LF	175	\$	\$
3	TRENCH FOUNDATION	TON	10	\$	\$
4	SANITARY SEWER SERVICE STUB, PVC, 4"	LF	68	\$	\$
5	4" ON 4" SANITARY SEWER SERVICE WYE	EA	2	\$	\$
6	REMOVE RV DUMP STATION AND PIPE	LS	1	\$	\$
7	WATER MAIN, TRENCHED, DIP, 4"	LF	36	\$	\$
8	WATER MAIN, TRENCHED, PVC DR-18, 8"	LF	180	\$	\$
9	FITTINGS, DIP	LB	181	\$	\$
10	WATER SERVICE PIPE, 2"	LF	10	\$	\$
11	WATER SERVICE CORPORATION, 2" ON 4"	EA	1	\$	\$
12	WATER SERVICE CURB STOP AND BOX, 2"	EA	1	\$	\$
13	VALVE, GATE, 4"	EA	1	\$	\$
14	VALVE, GATE, 8"	EA	1	\$	\$
15	TAPPING SLEEVE AND VALVE ASSEMBLY, 4"	EA	1	\$	\$

ITEM NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
16	FIRE HYDRANT ASSEMBLY SALVAGE AND RELOCATE	EA	1	\$	\$
17	MANHOLE ADJUSTMENT, MINOR	EA	1	\$	\$
18	CONNECTION TO EXISTING WATER MAIN	EA	2	\$	\$
19	PAVEMENT, PCC, 7"	SY	115	\$	\$
20	REMOVAL OF DRIVEWAY	SY	168	\$	\$
21	DRIVEWAY, PAVED, PCC, 6"	SY	168	\$	\$
22	CONCRETE REMOVAL	SY	115	\$	\$
23	AGGREGATE, CLASS A	TON	65	\$	\$
24	TEMPORARY TRAFFIC CONTROL	LS	1	\$	\$
25	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING	AC	0.1	\$	\$
26	WATTLE, WOOD, 9"	LF	250	\$	\$
27	REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK	LF	20	\$	\$
28	MOBILIZATION	LS	1	\$	\$
29	BULK WATER SALES PACKAGE	LS	1	\$	\$
30	CITY SHOP HYDRANT PLUMBING	LS	1	\$	\$
31	BOLLARD	EA	5	\$	\$
			TOTAL AMOUNT BID:		\$

NOTE: IT IS UNDERSTOOD THAT THE ABOVE QUANTITIES ARE ESTIMATED FOR THE PURPOSE OF THIS BID. ALL QUANTITIES ARE SUBJECT TO REVISION BY THE DISTRICT AS NOTED IN SECTION 00500 – CONTRACT.

Bidder Name

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SECTION 00420 - BID BOND

**2022 4th Street Watermain Improvements
City of Storm Lake**

KNOW ALL BY THESE PRESENTS:

That we, _____, as Principal, and

_____, as Surety, are held and firmly bound unto, City of Storm Lake as Obligee, (hereinafter referred to as "the Jurisdiction"), in the penal sum of _____ dollars (\$ _____), lawful money of the United States, for which payment said Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the Principal has submitted to the Jurisdiction a certain proposal, in a separate envelope, and hereby made a part hereof, to enter into a contract in writing, for the following project:

2022 4th Street Watermain Improvements

The Surety hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Jurisdiction may accept such bid or execute such Contract; and said Surety does hereby waive notice of any such extension.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue thereof shall be Buena Vista County, State of Iowa. If legal action is required by the Jurisdiction against the Surety or Principal to enforce the provisions of the bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Surety or Principal agrees to pay the Jurisdiction all damages, costs, and attorney fees incurred by enforcing any of the provisions of this Bond. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers, and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against Surety for any amount guaranteed hereunder whether action is brought against Principal or whether Principal is joined in any such action or actions or not.

NOW, THEREFORE, if said proposal by the Principal be accepted, and the Principal shall enter into a contract with Jurisdiction in accordance with the terms of such proposal, including the provision of insurance and of a bond as may be specified in the contract documents, with good and sufficient surety for the faithful performance of such contract, for the prompt payment of labor and material furnished in the prosecution thereof, and for the maintenance of said improvements as may be required therein, then this obligation shall become null and void; otherwise, the Principal shall pay to the Jurisdiction the full amount of the bid bond, together with court costs, attorney's fees, and any other expense of recovery.

Signed and sealed this _____ day of _____, 20____.

SURETY:

By

Surety Company

Signature Attorney-in-Fact/Officer

Name of Attorney-in-Fact/Officer

Company Name

Company Address

City, State, Zip Code

Company Telephone Number

PRINCIPAL:

By

Bidder

Signature

Name (Print/Type)

Title

Address

City, State, Zip Code

Telephone Number

NOTE: All signatures on this bid bond must be original signatures in ink; electronic, copies or facsimile of any signature will not be accepted. This bond must be sealed with the Surety's raised, embossing seal or official adhesive seal. The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety's raised, embossing seal or official adhesive seal.

SECTION 00450 - INFORMATION REQUESTED FROM THE LOW BIDDER

(The Low Bidder May Be Requested To Provide This Information After
The Bids Are Received But Prior To Issuing The Notice Of Award)

GENERAL INFORMATION

The low bidder is requested to furnish the following information. Additional sheets shall be attached as required.

Contractor's name and address: _____

Number of years as a Contractor in construction work of this type _____

Names and titles of all officers of Contractor's firm: _____

SUBMIT a list of five construction contracts completed by the Contractor during the last five years involving work of similar type and comparable value. The list shall include the following information as a minimum:

- Name, address and telephone number of owner.
- Name of project.
- Location of project.
- Brief description of the work involved.
- Contract amount.
- Date of completion of contract.
- Name, address and telephone number of architect or engineer.
- Name of owner's project engineer.

EQUIPMENT/MATERIAL SOURCE INFORMATION

The low bidder is requested to list the name of the manufacturer of supplier and catalog numbers of the equipment or material proposed to be furnished under the bid. Awarding of a contract under this bid will not imply approval by the Owner of the manufacturers or suppliers listed by the low bidder.

- Concrete Mixes
- Aggregates
- Watermain Pipe & Appurtenances
- Bulk Water Sale System
- Water Meter
- Backflow Preventer

****END OF SECTION****

SECTION 00500 - CONTRACT

2022 4th Street Watermain Improvements City of Storm Lake

THIS CONTRACT, made and entered into at _____
this _____ day of _____, by and between
the City of Storm Lake hereinafter called the "Jurisdiction", and _____,
hereinafter called the "Contractor".

WITNESSETH:

The Contractor hereby agrees to complete the work comprising the 2022 4th Street Watermain Improvements as specified in the contract documents, which are officially on file with the Jurisdiction, in the office of the City Clerk, City of Storm Lake, 620 Erie Street, Storm Lake, IA 50588, Iowa. This contract includes all such contract documents. All work under this contract shall be constructed in accordance with the SUDAS Standard Specifications, 2022 Edition and as further modified by the Special Provisions, Technical Specifications and Supplemental Specifications included in said contract documents and the Contract Attachment which is attached hereto. The Contractor further agrees to complete the work in strict accordance with said contract documents, and to guarantee the work as required by law for the time required in said contract documents after its acceptance by the Jurisdiction.

This contract is awarded and executed for completion of the work specified in the contract documents for the bid prices shown on the Contract Attachment: Bid Items and Quantities which were proposed by the Contractor in its Proposal submitted in accordance with the Notice to Bidders and Notice of Public Hearing for the following project:

2022 4th Street Watermain Improvements

The Contractor agrees to perform said work for and in consideration of the Jurisdiction's payment of the bid amount of _____ dollars (\$ _____), which amount shall constitute the required amount of the performance, maintenance, and payment bond. The Contractor hereby agrees to commence work as stated in the written Notice to Proceed; and substantially complete the work in accordance with the following contract provisions:

CONTRACT PROVISIONS

- A. Completion Date
 1. All work under the Contract must be substantially complete on or before August 12, 2022.
 2. All work under the Contract must be completed & made ready for final payment on or before September 9, 2022.
- B. Liquidated Damage
 1. Pay liquidated damages for noncompliance with said completion provisions in the amount of \$1100.00 (One Thousand one hundred dollars) for each calendar day the work remains incomplete.
 2. After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Times (as duly adjusted pursuant to the Contract) for completion and readiness for final payment, Contractor shall pay Owner Four hundred dollars (\$400.00) for each calendar day that expires after such time until the Work is completed and ready for final payment.
 3. Liquidated damages for failing to timely attain Substantial Completion and Final Completion are not additive and will not be imposed concurrently.

- C. Maintenance Bond & Warranty
 - 1. To remedy any and all defects that may develop in or result from work to be performed under the Contract within the City of Storm Lake, from the date of acceptance of the work under the Contract, by reason of defects in workmanship or materials used in construction of said work.
 - 2. Shall also guarantee the maintenance of the improvement caused by failures in materials and construction for a period of 4-years from and after acceptance of the work.
- D. Bid Quantity Revisions
 - 1. All quantities are estimates and subject to revision by the Jurisdiction.
 - 2. Quantity changes that do not materially change the character of the work to be performed and amount to less than Twenty (20) percent of a given bid item or less than Five (5) percent of the total contract amount shall not affect the unit price bid.

IN WITNESS WHEREOF, the Parties hereto have executed this instrument, in triplicate on the date first shown written.

JURISDICTION: City of Storm Lake

CONTRACTOR:

By _____
Michael Porsch, Mayor

(Seal)
ATTEST:

Mayra Martinez, City Clerk

By _____
Contractor's Contact Name
Contractor's Title

Street Address

City, State, Zip Code

Telephone

CONTRACTOR PUBLIC REGISTRATION INFORMATION to be Provided By:

1. All Contractors: The Contractor shall enter its Public Registration No. _____ issued by the Iowa Commissioner of Labor pursuant to Section 91C.5 of the Iowa Code.
2. Out-of-State Contractors:
 - A. Pursuant to Section 91C.7 of the Iowa Code, an out-of-state contractor, before commencing a contract in excess of five thousand dollars in value in Iowa, shall file a bond with the division of labor services of the department of workforce development. The contractor should contact 515-242-5871 for further information. Prior to contract execution, the Jurisdictional Engineer may forward a copy of this contract to the Iowa Department of Workforce Development as notification of pending construction work. It is the contractor's responsibility to comply with said Section 91C.7 before commencing this work.
 - B. Prior to entering into contract, the designated low bidder, if it is a corporation organized under the laws of a state other than Iowa, shall file with the Jurisdictional Engineer a certificate from the Secretary of the State of Iowa showing that it has complied with all the provisions of Chapter 490 of the Code of Iowa, as amended, governing foreign corporations. For further information contact the Iowa Secretary of State Office at 515-281-5204.

Bond No. _____

Name of Surety _____

NOTE: All signatures on this contract must be original signatures in ink; electronic, copies or facsimile of any signature will not be accepted.

CORPORATE ACKNOWLEDGMENT

State of _____)
_____) SS
_____ County)

On this ____ day of _____, 20____, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____ and _____, to me known, who, being by me duly sworn, did say that they are the _____, and _____, respectively, of the corporation executing the foregoing instrument; that (no seal has been procured by) (the seal affixed thereto is the seal of) the corporation; that said instrument was signed (and sealed) on behalf of the corporation by authority of this Board of Directors; that _____ and _____ acknowledged the execution of the instrument to be the voluntary act and deed of the corporation, by it and by them voluntarily executed.

Notary Public in and for the State of _____
My commission expires _____ 20, _____

PARTNERSHIP ACKNOWLEDGMENT

State of _____)
_____) SS
_____ County)

On this ____ day of _____, 20 ____, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____ to me personally known, who being by me duly sworn, did say that the person is one of the partners of _____, a partnership, and that the instrument was signed on behalf of the partnership by authority of the partners and the partner acknowledged the execution of the instrument to be the voluntary act and deed of the partnership by it and by the partner voluntarily executed.

Notary Public in and for the State of _____
My commission expires _____ 20, _____

INDIVIDUAL ACKNOWLEDGMENT

State of _____)
_____) SS
_____ County)

On this ____ day of _____, 20 ____, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____ and _____, to me known to be the identical person(s) named in and who executed the foregoing instrument, and acknowledged that (he) (she) (they) executed the instrument as (his) (her) (their) voluntary act and deed.

Notary Public in and for the State of _____
My commission expires _____ 20, _____

LIMITED LIABILITY COMPANY ACKNOWLEDGMENT

State of _____)
_____) SS
_____ County)

On this ____ day of _____, 20 ____, before me a Notary Public in and for said county, personally appeared _____, to me personally known, who being by me duly sworn did say that person is _____ of said _____, that (the seal affixed to said instrument is the seal of said OR no seal has been procured by the said) _____, and that said instrument was signed and sealed on behalf of the said _____, by authority of its managers and the said _____ acknowledged the execution of said instrument to be the voluntary act and deed of said _____, by it voluntarily executed.

Notary Public in and for the State of _____
My commission expires _____ 20, _____

CONTRACT ATTACHMENT: ITEM 1: GENERAL - NONE

CONTRACT ATTACHMENT: ITEM 2: BID ITEMS AND, QUANTITIES

THIS CONTRACT IS AWARDED AND EXECUTED FOR COMPLETION OF THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS FOR THE BID PRICES TABULATED BELOW AS PROPOSED BY THE CONTRACTOR IN ITS PROPOSAL SUBMITTED IN ACCORDANCE WITH NOTICE TO BIDDERS AND NOTICE OF PUBLIC HEARING. ALL QUANTITIES ARE SUBJECT TO REVISION BY THE JURISDICTION. THE JURISDICTION RESERVES THE RIGHT TO ADJUST QUANTITIES AS NECESSARY TO MAXIMIZE FUNDS BUDGETED FOR THIS PROJECT AS NOTED IN SECTION 00500 – CONTRACT.

ITEM NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1	SUBBASE, MODIFIED, 6"	SY	200	\$	\$
2	REMOVAL OF KNOWN PIPE AND CONDUIT, WATERMAIN, 4"	LF	175	\$	\$
3	TRENCH FOUNDATION	TON	10	\$	\$
4	SANITARY SEWER SERVICE STUB, PVC, 4"	LF	68	\$	\$
5	4" ON 4" SANITARY SEWER SERVICE WYE	EA	2	\$	\$
6	REMOVE RV DUMP STATION AND PIPE	LS	1	\$	\$
7	WATER MAIN, TRENCHED, DIP, 4"	LF	36	\$	\$
8	WATER MAIN, TRENCHED, PVC DR-18, 8"	LF	180	\$	\$
9	FITTINGS, DIP	LB	181	\$	\$
10	WATER SERVICE PIPE, 2"	LF	10	\$	\$
11	WATER SERVICE CORPORATION, 2" ON 4"	EA	1	\$	\$
12	WATER SERVICE CURB STOP AND BOX, 2"	EA	1	\$	\$
13	VALVE, GATE, 4"	EA	1	\$	\$
14	VALVE, GATE, 8"	EA	1	\$	\$

ITEM NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
15	TAPPING SLEEVE AND VALVE ASSEMBLY, 4"	EA	1	\$	\$
16	FIRE HYDRANT ASSEMBLY SALVAGE AND RELOCATE	EA	1	\$	\$
17	MANHOLE ADJUSTMENT, MINOR	EA	1	\$	\$
18	CONNECTION TO EXISTING WATER MAIN	EA	2	\$	\$
19	PAVEMENT, PCC, 7"	SY	115	\$	\$
20	REMOVAL OF DRIVEWAY	SY	168	\$	\$
21	DRIVEWAY, PAVED, PCC, 6"	SY	168	\$	\$
22	CONCRETE REMOVAL	SY	115	\$	\$
23	AGGREGATE, CLASS A	TON	65	\$	\$
24	TEMPORARY TRAFFIC CONTROL	LS	1	\$	\$
25	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING	AC	0.1	\$	\$
26	WATTLE, WOOD, 9"	LF	250	\$	\$
27	REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK	LF	20	\$	\$
28	MOBILIZATION	LS	1	\$	\$
29	BULK WATER SALES PACKAGE	LS	1	\$	\$
30	CITY SHOP HYDRANT PLUMBING	LS	1	\$	\$
31	BOLLARD	EA	5	\$	\$
			TOTAL AMOUNT BID:		\$

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SECTION 00610 - PERFORMANCE, PAYMENT AND MAINTENANCE BOND

2022 4th Street Watermain Improvements
City of Storm Lake

KNOW ALL BY THESE PRESENTS:

That we, _____, as Principal (hereinafter the "Contractor" or "Principal" and _____, as Surety are held and firmly bound unto _____, as Oblige (hereinafter referred to as "the Jurisdiction"), and to all persons who may be injured by any breach of any of the conditions of this Bond in the penal sum of _____ DOLLARS (\$ _____), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, legal representatives and assigns, jointly or severally, firmly by these presents.

The conditions of the above obligations are such that whereas said Contractor entered into a contract with the Jurisdiction, bearing date the _____ day of _____, hereinafter the "Contract" wherein said Contractor undertakes and agrees to construct the 2022 4th Street Watermain Improvements project in Storm Lake, IA 50588.

and to faithfully perform all the terms and requirements of said Contract within the time therein specified, in a good and workmanlike manner, and in accordance with the Contract Documents. Provided, however, that one year after the date of acceptance as complete of the work under the above referenced Contract, the maintenance portion of this Bond shall continue in force for the stated maintenance period.

It is expressly understood and agreed by the Contractor and Surety in this bond that the following provisions are a part of this Bond and are binding upon said Contractor and Surety, to-wit:

PERFORMANCE: The Contractor shall well and faithfully observe, perform, fulfill, and abide by each and every covenant, condition, and part of said Contract and Contract Documents, by reference made a part hereof, for the above referenced improvements and shall indemnify and save harmless the Jurisdiction from all outlay and expense incurred by the Jurisdiction by reason of the Contractor's default of failure to perform as required. The Contractor shall also be responsible for the default or failure to perform as required under the Contract and Contract Documents by all its subcontractors, suppliers, agents, or employees furnishing materials or providing labor in the performance of the Contract.

PAYMENT: The Contractor and the Surety on this Bond are hereby agreed to pay all just claims submitted by persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the performance of the Contract on account of which this Bond is given, including but not limited to claims for all amounts due for labor, materials, lubricants, oil, gasoline, repairs on machinery, equipment and tools, consumed or used by the Contractor or any subcontractor, wherein the same are not satisfied out of the portion of the contract price which the Jurisdiction is required to retain until completion of the improvement, but the Contractor and Surety shall not be liable to said persons, firms, or corporations unless the claims of said claimants against said portion of the contract price shall have been established as provided by law. The Contractor and Surety hereby bind themselves to the obligations and conditions set forth in Chapter 573, Code of Iowa, which by this reference is made a part hereof as though fully set out herein.

MAINTENANCE: The Contractor and the Surety on this Bond hereby agree, at their own expense:

To remedy any and all defects that may develop in or result from work to be performed under the Contract as detailed in Section 00500 - Contract, from the date of acceptance of the work under the Contract, by reason of defects in workmanship or materials used in construction of said work;

To keep all work in continuous good repair; and

To pay the Jurisdiction's reasonable costs of monitoring and inspection to assure that any defects are remedied and to repay the Jurisdiction all outlay and expense incurred as a result of Contractor's and Surety's failure to remedy any defect as required by this section.

Contractor's and Surety's agreement herein made extends to defects in workmanship or materials not discovered or known to the Jurisdiction at the time such work was accepted.

GENERAL: Every Surety on this Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

To consent without notice to any extension of time to the Contractor in which to perform the Contract;

To consent without notice to any change in the Contract or Contract Documents, which thereby increases the total contract price and the penal sum of this bond, provided that all such changes do not, in the aggregate, involve an increase of more than twenty percent of the total contract price, and that this bond shall then be released as to such excess increase; and

To consent without notice that this Bond shall remain in full force and effect until the Contract is completed, whether completed within the specified contract period, within an extension thereof, or within a period of time after the contract period has elapsed and the liquidated damage penalty is being charged against the Contractor.

The Contractor and every Surety on the bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

That no provision of this Bond or of any other contract shall be valid which limits to less than five years after the acceptance of the work under the Contract the right to sue on this Bond.

That as used herein, the phrase "all outlay and expense" is not to be limited in any way, but shall include the actual and reasonable costs and expenses incurred by the Jurisdiction including interest, benefits and overhead where applicable. Accordingly, "all outlay and expense" would include but not be limited to all contract or employee expense, all equipment usage or rental, materials, testing, outside experts, attorney's fees (including overhead expenses of the Jurisdiction's staff attorneys), and all costs and expenses of litigation as they are incurred by the Jurisdiction. It is intended the Contractor and Surety will defend and indemnify the Jurisdiction on all claims made against the Jurisdiction on account of Contractor's failure to perform as required in the Contract and Contract Documents, that all agreements and promises set forth in the Contract and Contract Documents, in approved change orders, and in this Bond will be fulfilled, and that the Jurisdiction will be fully indemnified so that it will be put into the position it would have been in had the Contract been performed in the first instance as required.

In the event the Jurisdiction incurs any "outlay and expense" in defending itself with respect to any claim as to which the Contractor or Surety should have provided the defense, or in the enforcement of the promises given by the Contractor in the Contract, Contract Documents, or approved change orders, or in the enforcement of the promises given by the Contractor and Surety in this Bond, the Contractor and Surety agree that they will make the Jurisdiction whole for all such outlay and expense, provided that the Surety's obligation under this bond shall not exceed 125% of the penal sum of this bond.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue thereof shall be Buena Vista County, State of Iowa. If legal action is required by the Jurisdiction to enforce the provisions of this Bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Contractor and the Surety agree, jointly and severally, to pay the Jurisdiction all outlay and expense incurred therefor by the Jurisdiction. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against surety for any amount guaranteed hereunder whether action is brought against the Contractor or whether Contractor is joined in any such action(s).

NOW THEREFORE, the condition of this obligation is such that if said Principal shall faithfully perform all the promises of the Principal, as set forth and provided in the Contract, in the Contract Documents, and in this Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect.

When a work, term, or phrase is used in this Bond, it shall be interpreted or construed first as defined in this Bond, the Contract, or the Contract Documents; second, if not defined in the Bond, Contract, or Contract Documents, it shall be interpreted or construed as defined in applicable provisions of the Iowa Code; third, if not defined in the Iowa Code, it shall be interpreted or construed according to its generally accepted meaning in the construction industry; and fourth, if it has no generally accepted meaning in the construction industry, it shall be interpreted or construed according to its common or customary usage.

Failure to specify or particularize shall not exclude terms or provisions not mentioned and shall not limit liability hereunder. The Contract and Contract Documents are hereby made a part of this Bond.

Project No. _____

(CON'T – PERFORMANCE, PAYMENT AND MAINTENANCE BOND)

Witness our hands, in triplicate, this _____ day of _____, _____.

Surety Countersigned By:

PRINCIPAL:

Signature of Iowa Resident Commission Agent as
Prescribed by Chapter 515.52-57, Iowa Code.
(Require only if Attorney-in-Fact is not also an
Iowa Resident Commission Agent).

Contractor

By:

Signature

Name of Resident Commission Agent

Title

Company Name

SURETY:

Company Address

Surety Company

City, State, Zip Code

By:

Signature Attorney-in-Fact Officer

Company Telephone Number

Name of Attorney-in-Fact Officer

Company Name

Company Address

City, State, Zip Code

Company Telephone Number

NOTE: All signatures on this Performance, Maintenance & Payment Bond must be original signatures in ink; electronic, copies, or facsimile of any signature will not be accepted. This bond must be sealed with the Surety's raised, embossing seal or official adhesive seal. The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety's raised, embossing seal or official adhesive seal.

SECTION 00800 - SPECIAL PROVISIONS

FOR

2022 4th Street Watermain Improvements
City of Storm Lake

TABLE OF CONTENTS

1. CONTRACT PROVISIONS
2. DEFINITION AND INTENT
3. GENERAL PROVISIONS AND COVENANTS
4. WORK REQUIRED
5. PLANS AND SPECIFICATIONS
6. SUBMITTALS
7. STANDARDS AND CODES
8. CONSTRUCTION GENERAL
9. EMPLOYMENT PRACTICES
10. RESPONSIBILITIES OF CONTRACTOR
11. WORK HOURS/COMMUNITY EVENTS
12. CONSTRUCTION FACILITIES
13. PROJECT SUPERVISION
14. COORDINATION WITH OTHERS
15. CONSTRUCTION LIMITS
16. CONSTRUCTION SCHEDULE
17. CONSTRUCTION STAKING
18. CONSTRUCTION SURVEY DOCUMENTATION & RESPONSIBILITIES OF ENGINEER & CONTRACTOR
19. MATERIALS TESTS
20. SOIL BORINGS
21. EXISTING UTILITIES
22. SALVAGE & MATERIALS / DISPOSAL
23. TRAFFIC CONTROL
24. TEMPORARY FENCES
25. EROSION AND SEDIMENT CONTROL
26. DEWATERING
27. DUST ABATEMENT
28. INCIDENTAL CONTRACT ITEMS

1) CONTRACT PROVISIONS

a) Completion Date

- i) All work under the Contract must be substantially complete as detailed in Section 00500 – Contract

b) Liquidated Damage

- i) Damages in the amount as detailed in Section 00500 –Contract per day will be assessed for each calendar day the work remains incomplete.

c) Maintenance Bond & Warranty

- i) To remedy any and all defects as detailed in Section 00500 – Contract.

d) Bid Quantity Revisions

- i) All quantities are estimates and subject to revision by the Jurisdiction.
- ii) Quantity changes that do not materially change the character of the work to performed and amount to less than Twenty (20) percent of a given bid item or less than Five (5) percent of the total contract amount shall not affect the unit price bid.

2) DEFINITION AND INTENT

a) The Specifications that apply to the materials and construction practices for this project are defined as follows:

- i) The 2022 Edition of the SUDAS Standard Specifications, except as modified by these Special Provisions to the Technical Specifications.
- ii) Omissions of words or phrases such as “the Contractor shall”, “in accordance with”, “shall be”, “as noted on the Plans”, “according to the Plans”, “a”, “an”, “the” and “all” are unintentional; supply omitted words or phrases by inference.
- iii) “Owner”, “Jurisdiction” and “City” shall mean the City of Storm Lake, acting through the City Council.
- iv) “Person” shall mean any individual, partnership, limited partnership, joint venture, society, association, joint stock company, corporation, limited liability company, estate, receiver, trustee, assignee, or referee, whether appointed by a court or otherwise, and any combination of individuals.
- v) “Engineer” shall mean the Engineer of Record.
- vi) The intent of the Technical Specifications is to describe the construction desired, performance requirements, and standards of materials and construction.
- vii) “Standard Drawings” shall mean the Figures bound within the SUDAS Standard Specifications and/or the Typical Drawings bound within the plans.
- viii) “Work” shall mean the work to be done and the equipment, supplies, and materials to be furnished under the contract unless some other meaning is indicated by the context.
- ix) “Or equal” shall follow manufacturers names used to establish standards and, if not stated, is implied.

b) Engineer: Bolton & Menk, Inc., 218 11th Street SW, Spencer, IA 51301, (712) 580-5075, fax (515) 233-4430.

3) GENERAL PROVISIONS AND COVENANTS

a) Division 1 of the General Provisions and Covenants of the 2022 Edition SUDAS Standard Specifications is modified as follows:

i) Section 1020.1.09B, Unit Price Attachment.

- (a) A computer generated unit price attachment may be submitted by the Bidder as specified by this Section.

ii) Section 1050, 1.05 Shop Drawings, Certificates, and Equipment Lists.

- (a) Electronic submittal of shop drawings will be allowed.
 - (b) If hardcopy submittals are used, the Contractor shall submit a minimum of three (3) copies plus any additional required by the Contractor.
- iii) Section 1050, 1.15 - Additional Contractor Responsibilities.

NO CHANGES

4) WORK REQUIRED

- a) Work under this contract includes all materials, equipment, transportation, traffic control, and associated work for the construction of the 2022 4th Street Watermain Improvements as described in the Official Publication.

5) PLANS AND SPECIFICATIONS

- a) The Owner will furnish five (5) sets of plans and specifications to the Contractor after award of the contract. The Contractor shall compensate the Owner for printing costs for additional copies required.
- b) Contractor shall provide one set of plans and specifications for each foreman and superintendent in charge of each crew on the job.

6) SUBMITTALS

- a) Contractor shall provide a construction schedule showing dates of starting and completing various portions of work. Schedule shall be updated as needed or as requested by Engineer due to changes in progress of construction from original schedule. Updates shall be completed within one week of request.
- b) Contractor shall submit the following information for Engineer's review. Three (3) copies plus any additional copies required by Contractor shall be submitted to the Engineer at the preconstruction conference or at least 14 days prior to utilization of the particular item on this project.
 - i) Testing reports.
 - ii) Manufacturer's data for materials that are to be permanently incorporated into the project.
 - iii) Details of proposed methods of any special construction required.
 - iv) Purchase orders and subcontracts without prices.
 - v) Traffic control and staging plan.
 - vi) Such other information as the Engineer may request to insure compliance with contract documents.
 - vii) List of Subcontractors and Suppliers.

7) STANDARDS AND CODES

- a) Construct improvements with best present day construction practices and equipment.
- b) Conform with and test in accordance with applicable sections of the following standards and codes.
 - i) American Association of State Highway and Transportation Officials (AASHTO).
 - ii) American Society for Testing and Materials (ASTM).

- iii) Iowa Department of Transportation Standard Specifications (Iowa DOT).
- iv) American National Standards Institute (ANSI).
- v) American Water Works Association (AWWA).
- vi) American Welding Society (AWS).
- vii) Federal Specifications (FS).
- viii) Iowa Occupational Safety and Health Act of 1972 (IOSHA).
- ix) Manual of Accident Prevention in Construction by Associated General Contractors of America, Inc. (AGC).
- x) Standards and Codes of the State of Iowa and the ordinances of the Owner.
- xi) Other standards and codes which may be applicable to acceptable standards of the industry for equipment, materials and installation under the contract.
- c) The Engineer's review of a submittal shall not relieve the Contractor from the responsibility for deviation from the drawings and specifications unless the Contractor has, in writing, called the Engineer's attention to the deviations at the time of submission; nor shall it relieve the Contractor from the responsibility of errors within the submittal.
- d) All submittals shall be reviewed by the Engineer prior to their incorporation into the project. If materials are installed without prior review and found to be non-conforming, they will be subject to removal at the Contractor's expense.

8) CONSTRUCTION GENERAL

- a) Procedures outlined herein are not intended to fully cover all special construction procedures but are offered as an aid to the Contractor in planning work.
- b) Contractor shall cooperate with the City of Storm Lake, IA and the Engineer to minimize inconvenience to property owners, other jurisdictions and motorists and to prevent delays in construction and interruption to continuous operation of utility services and site access.
- c) The Contractor is expected to provide adequate personnel and equipment to perform work within the specified time of construction.
- d) Contractor shall install and maintain orange safety fence around all open trenches or open structures when left unattended.
- e) Contractor shall complete surface restoration and clean up activities as construction progresses.

9) EMPLOYMENT PRACTICES

- a) Neither the Contractor nor the Contractor's subcontractors shall employ any person whose physical or mental condition is such that their employment will endanger the health and safety of anyone employed on the Project.
- b) The Contractor shall not commit any of the following employment practices and agrees to include the following clauses in any subcontracts:
 - i) To discharge from employment or refuse to hire any individual because of sex, race, color, religion, national origin, sexual orientation, marital status, age, or disability unless such disability is related to job performance of such person or employee.

- ii) To discriminate against any individual in terms, conditions, or privileges or employment because of sex, race, color, religion, national origin, sexual orientation, marital status, age, or disability unless such disability is related to job performance of such person or employee.

10) RESPONSIBILITY OF CONTRACTOR

- a) Contractor shall provide supervision of the work.
- b) Contractor shall provide protection of all property from injury or loss resulting from construction operations.
- c) Contractor shall replace or repair objects sustaining any such damage, injury, or loss, to the satisfaction of Owner and Engineer.
- d) Contractor shall cooperate with Owner, Engineer, and representatives of utilities in locating underground utility lines and structures. Incorrect, inaccurate, or inadequate information concerning location of utilities or structures shall not relieve the Contractor of responsibility for damage thereto caused by construction operations.
- e) Contractor shall keep cleanup current with construction operations.
- f) Contractor shall comply with all Federal, State of Iowa, and local laws and ordinances.

11) WORK HOURS/COMMUNITY EVENTS

- a) The Contractor will be required to limit work hours on the Project from 7:00 a.m. to 7:00 p.m., Monday through Saturday, unless otherwise directed by the Engineer.
- b) The following Community Events are scheduled. Contractor is required to coordinate with the Owner as needed to allow use of public property as necessary for the event. If contract continues for multiple years, event is still in force even though dates and locations may change.
 - i) None

12) CONSTRUCTION FACILITIES

- a) Contractor shall provide telephone numbers where Contractor's representative can be reached during work days and on nights and weekends in event of emergency.
- b) Contractor shall provide and maintain suitable sanitary facilities for construction personnel for duration of work; remove upon completion of work.
- c) Contractor shall not store construction equipment, employee vehicles, or materials on streets open to traffic.
- d) Contractor shall provide suitable storage facilities necessary for proper storage of materials and equipment. Location for storage of equipment by Contractor is subject to approval of Engineer.
- e) Contractor will be required to make arrangements for all services required during the construction period and pay for such services at no additional cost to the Owner.

13) PROJECT SUPERVISION

- a) The Contractor shall be represented in person at the construction site at all times that construction operations are proceeding. Representation constitutes a qualified superintendent or other designated, qualified representative capable of providing adequate supervision. The representative must be duly authorized to receive and execute instructions, notices, and written orders from the Engineer.

- b) Resolution of issues that arise during construction relating to traffic control, construction staging, etc. is the responsibility of the Contractor.
- c) Weekly progress meetings, if specified at the preconstruction conference may be held at the project site to review project schedule, coordinate activities, resolve conflicts, and coordinate the construction work. The day and time for this meeting will be set at the preconstruction conference. The Contractor shall provide qualified representation at each meeting.
- d) Refer to Division 1 – General Provisions and Covenants, Section 1080 – Contractual Provisions, Part 1 – Prosecution and Progress of the Work, Section 1.10 Contractors Employees, Methods and Equipment for additional requirements.
- e) Contractor shall provide supervision of all sub-contractors and their personnel while on the site.

14) COORDINATION WITH OTHERS

- a) Contractor shall cooperate and coordinate construction with the Owner, utility companies, affected property owners, and other contractors working in vicinity of this project.
- b) It is the Contractor's responsibility to schedule and coordinate work to minimize construction delays and conflicts.
- c) Contractor shall cooperate and coordinate with property owners prior to beginning work that will affect their parcel.

15) CONSTRUCTION LIMITS

- a) Contractor shall confine the construction operations within the construction limits shown on the plans.
- b) Contractor shall not store equipment, vehicles, or materials within the right-of-way of any streets open to traffic or on temporary access roads at any time.
- c) Areas disturbed outside of construction limits shall be restored at the contractor's expense to the satisfaction of the Jurisdiction.
- d) Contractor shall protect trees, fences, and landscaping within the construction limits not marked for removal.
- e) All work on this project will be within City Right-of-Way, Easements or Public Property.

16) CONSTRUCTION SCHEDULE

- a) The Contractor will prepare and submit to the Engineer a project schedule that will assure the completion of the project within the time specified within the Contract.
- b) Adequate equipment and forces shall be made available by the Contractor to start work immediately upon receipt of the Notice to Proceed.
- c) Contractor shall submit a construction schedule at the preconstruction conference.
- d) Contractor shall periodically update it as needed due to changes in progress of construction from original schedule or as requested by the Engineer. Updates shall be completed within one week of request.
- e) The Contractor shall be required to meet the final completion date as specified in the written Notice to Proceed.
- f) Contractor shall notify the City and property owners at least 48 hours prior to any street closures.

- g) Upon work commencing, work shall be continuously pursued until substantial completion is achieved.
- h) The Contractor shall not be allowed to leave the project site for a period of more than seven (7) consecutive calendar days, except for unforeseeable delays due to weather. Should the Contractor be absent from the project site for more than this duration, the Owner may **assess a fee in the amount of \$ 1500 per day for each day** that the Contractor is absent and until typical construction activity is resumed.

17) CONSTRUCTION STAKING

- a) Unless otherwise specified in the specific sections, Owner shall provide engineering surveys to establish reference points for construction as follows:
 - i) Storm Sewer: Staking will be furnished and set by the Engineer at 50.0-foot spacing (usually offset for construction) for the control of the underground construction herein described. Cuts to the proposed pipeline grade will be furnished by the Engineer. Manholes and catch basins will be staked with an offset and a witness with a cut to the lowest structure invert.
 - ii) Watermain: The staking interval for watermain shall be 25.0-feet. Cuts to the proposed pipeline grade will be furnished by the Engineer. Location staking shall be provided for valves and fittings. Hydrants will be staked with an offset and a witness with a cut to the ground elevation at the hydrant. The Engineer will provide horizontal and vertical control points on the project's datum.
 - iii) Street Grading and Top of Curb: A control line (usually offset from the curb line) with cuts and fills to proposed grade at 50.0-foot spacing on tangents, and 25.0-foot spacing on horizontal or vertical curves, shall be furnished and set on both sides for control of the construction herein described.
 - iv) Concrete Paving: Control lines for paving forms or stringline control with cuts and fills to proposed finished grade at 25.0 or 50.0-foot stations shall be furnished and set by the Engineer for control of the concrete construction herein described. The offset and actual form or stringline locations shall be in accordance with the paver manufacturer's recommendations and the approved paving strategy as determined at the Preconstruction conference.
- b) The Engineer will provide stakes indicating the right of way and/or temporary easement construction limits.
- c) Contractor is responsible to have all areas where stakes need to be set to be clear of debris. The contractor needs to also provide a clear line of sight for staking.
- d) The Contractor shall submit staking requests a minimum two (2) working days, excluding Saturdays, Sundays, and legal holidays, prior to the date requested stakes are needed on the project. Staking requests submitted after 2pm shall be recorded as being received the next business day.
- e) The stakes are an integral part of the project and the Contractor shall protect and preserve all such stakes and marks and will be charged with the expense of resetting all such stakes and marks destroyed or disturbed due to the Contractor's carelessness or negligence. Stakes that are destroyed due to vandalism, erosion or other incidents shall be re-staked by the Engineer and will not be at the Contractor's expense.
- f) In the event of apparent or questionable errors or inconsistencies in such stakes set for control of line and/or grade, the Contractor shall promptly notify the Engineer of such error or inconsistency and shall not proceed with the work until such stake, grade, or mark shall have been verified or corrected by the Engineer.
- g) The Engineer will mark the existing boundary monuments prior to construction. The Contractor is responsible for protecting the monuments during construction. If monuments are removed the Engineer will reset them post construction at the Contractor's expense.
- h) All other line and grade staking shall be the responsibility of the Contractor. The Contractor shall furnish sufficient equipment and personnel for determination of plan grades, cross sections, course thicknesses, etc. The survey cost of establishing stakes requested by the Contractor for the convenience of the Contractor, beyond those cited as basic project control, will be charged to the Contractor or withheld from the amounts due to the Contractor.

18) CONSTRUCTION SURVEY DOCUMENTATION & RESPONSIBILITIES OF ENGINEER AND CONTRACTOR

- a) The Contractor shall maintain at the construction site one complete set of drawings suitably marked to show all deviations from the original set of drawings and other information as specified. Supplementary sketches shall be included, if necessary, to clearly indicate all work as constructed.
- b) All manholes and valves shall be located with tie-off dimensions to known items on the plans or in the field to enable the Contractor or City personnel to locate these structures for adjustment
- c) Survey work documentation shall be a combination of digital and hard copy format and is the property of the Engineer.
- d) Tie-ins with existing pavements and utilities shall be verified for correctness of alignment and elevation prior to construction staking. Any discrepancies discovered during this verification process will be brought to the attention of the Engineer for review and assistance with resolution prior to staking.
- e) When survey work is done under traffic conditions, the traffic control shall be in place prior to commencement of survey work.
- f) The Engineer will have a representative at the preconstruction conference to discuss construction staking.
- g) The Jurisdiction and Engineer will not be responsible for delays due to lack of grade or line stakes unless the Contractor has given the Engineer a 48 hour, working day, notice that such stakes will be needed and the Contractor's work is being conducted in a satisfactory manner and at the specified rate of progress.

19) MATERIALS TESTS

- a) Material testing as specified for construction will be completed by an independent testing laboratory retained by the Contractor and approved by the Engineer. Testing shall meet the requirements of the SUDAS Standard Specifications.
- b) The Contractor shall coordinate all material testing with the Engineer.
- c) The Contractor shall provide transportation of all samples to the laboratory.
- d) The Contractor shall not deliver materials to the project site until laboratory tests have been furnished which verify compliance of materials with specifications.
- e) Contractor shall provide gradation and materials certifications for all granular materials. Certify that sources of Portland Cement and aggregate sources are Iowa DOT approved.
- f) Contractor shall certify that materials and equipment are manufactured in accordance with applicable specifications.

20) SOIL BORINGS

- a) Geotechnical Report is included in the Appendix.

21) EXISTING UTILITIES

- a) Location of utility lines, mains, cables, and appurtenances shown on plans are from information provided by utility companies and records of the Owner.

- b) Prior to construction, Contractor shall contact all utility companies and have all utility lines and services located. The Contractor is responsible for excavating and exposing underground utilities in order to confirm their locations ahead of the work.
- c) The Contractor is solely responsible for damage to utilities or private or public property due to utility disruption.
- d) The Contractor shall notify utility company immediately if utility infrastructure is damaged during construction.
- e) The Contractor shall support and protect all utilities that are not moved.
- f) Utility services are not generally shown on plans; protect and maintain services during construction. Notify Jurisdiction and affected property Jurisdictions 48 hours prior to any planned utility service interruptions.
- g) If private utility work occurs within/adjacent to the site during the construction period, Contractor shall coordinate work schedules with the Engineer.
- h) Existing utilities shall remain in substantially continuous operation during construction. Contractor shall select the order and methods of construction that will not interfere with the operation of the utility systems. Interrupt utility services only with approval of Jurisdiction and Engineer.
- i) No claims for additional compensation or time extensions will be allowed to the Contractor for interference or delay caused by utility companies.

22) SALVAGE OF MATERIALS / DISPOSAL

- a) The Contractor shall remove from the project site and dispose of trees, shrubs, vegetation, excess soil excavation, rubbish, concrete, granular materials, and other materials encountered as shown on plans and as specified. Excess soil excavation not designated for waste locations shall be disposed as directed by the Engineer.
- b) The Contractor shall dispose of materials in accordance with applicable laws and ordinances. Disposal sites are subject to the review and approval of the Engineer.
- c) Burning of brush and other debris is not permitted. Contractor is responsible for selecting disposal location off site.
- d) The Contractor shall dispose of broken concrete, asphalt, granular material, rubble, and excess or unsuitable excavated material. Contractor is responsible for selecting disposal location off site.
- e) The Contractor shall cooperate with all applicable City, State and Federal agencies concerning disposal of materials.
- f) The City of Storm Lake, IA retains first right of refusal for retaining any existing materials removed by the construction.
- g) The Contractor shall carefully remove, in a manner to prevent damage, all materials and equipment specified or indicated as salvage. The Contractor shall protect and store items specified.
- h) Any items damaged in removal, storage, or handling through carelessness or improper procedures shall be replaced by the Contractor in kind with new items.

23) TRAFFIC CONTROL

- a) The Contractor shall provide sufficient surveillance of the traffic control devices to ensure compliance during the entire construction period. The Contractor shall furnish names, addresses, and phone numbers of at least two (2) local individuals capable of immediate response who will be responsible for the site security and traffic control devices to:
 - The Engineer
 - The Owner
 - Local Law Enforcement Agencies
- b) The Contractor shall respond with sufficient personnel, equipment and/or materials and conduct the required work or be subject to a \$ 100 per hour deduction from the time of notification for non-attention to project security and safety.
- c) The Contractor shall schedule the work to cooperate fully with business property owners and occupants abutting the project to minimize the time of restricted access to their property during the construction period.
- d) The Contractor shall notify the City and property owners at least 48 hours prior to any street closures.
 - i) Notification shall be provided by written notice delivered to the business. The following items shall be included within the notice:
 - (1) The street name, location and proposed date of street closure.
 - (2) The estimated schedule for completion of work.
 - (3) The estimated date for reopening of the street.
 - (4) Procedure for garbage collection/recycling and postal service.
 - ii) Contractor shall accommodate & maintain safe access to homes for property owners. Access to homes shall be considered incidental.
- e) The cost of maintaining vehicular and pedestrian traffic on temporary surfaced drives, walkways, including the eventual removal of the temporary surfacing material, shall be considered incidental to traffic control.
- f) In the event that any of the above right-of-way require traffic to be detoured around the construction zone, the Contractor shall prepare the detour route with the appropriate Agency representatives. The Contractor shall provide and maintain all signing and other traffic control required. The affected Agency shall be notified by the Contractor before re-routing traffic. Dust control and road maintenance of the by-pass route shall be the Contractor's responsibility.
- g) Contractor shall furnish, erect, and maintain traffic control devices as specified in the construction drawings and directed by the Engineer including signs, barrels, cones, and barricades to direct traffic and separate traffic from work areas. Traffic control shall be in place prior to the closing of any streets.
- h) Contractor shall provide traffic control devices in accordance with the Iowa DOT Standard Specification, Section 2528, Traffic Control, and the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- i) Adjustments to the traffic control or the addition of flaggers will be required if, in the opinion of the Engineer, undue traffic congestion occurs.
- j) Contractor shall provide continuous access for police, fire, and other emergency vehicles.
- k) Contractor shall notify the Engineer in writing at least 72 hours prior to the start of any construction operation that will necessitate land closure or internal traffic control signing.

24) TEMPORARY FENCES

- a) Contractor shall install temporary fencing around open excavations or material storage areas and as directed by Engineer to prevent access of unauthorized persons to construction areas.
- b) Contractor shall provide orange plastic mesh safety fence with a nominal height of 48". Support fence securely on driven posts in vertical position without sagging.
 - i) Refer to Iowa DOT Section 4188.03 for fence materials.
- c) Temporary fencing installed around open excavations or material storage areas is incidental to construction and will not be measured for payment.
- d) Contractor shall remove temporary fencing upon completion of construction.

25) EROSION AND SEDIMENT CONTROL

- a) If Contractor fails to install and/or perform the appropriate erosion and sediment control practices, as determined by the Engineer, the Engineer may issue a written order to the Contractor. **Failure to perform this work within 24 hours of notification of non-compliance may result in the Owner issuing a Municipal Infraction for Illicit Discharge and/or the Owner or Engineer arranging for completion of the work by others. A contract deduction shall be made equal to the total of all costs to perform such work so arranged, including but not limited to, labor, materials, equipment and administrative costs.**
- b) It shall be the Contractor's responsibility to update the Erosion Control plan during construction and have the plan available on site at all times.
- c) Contractor shall protect adjoining property (including public sanitary/storm sewer systems and streets) from any damage resulting from movement of earth or other debris from the project site. Any damage shall be repaired immediately.
- d) Contractor shall prevent the accumulation of earth or debris on adjoining public or private property from the project. Contractor shall remove any accumulation of earth or debris immediately and prevent the repetition of any instance where earth or debris moves from the project site to adjoining public or private property.
- e) Contractor shall provide erosion control measures necessary to protect against siltation and erosion from the flow of storm water. Maintain continuous operation of the storm sewer system throughout the construction period.
- f) Contractor shall use erosion control methods at all drainage courses, swales, and storm sewer inlets/outlets to protect against siltation and erosion.
- g) The Contractor will be fully liable for all damages to public and private property caused by their action or inaction in providing for handling of storm water flow during construction.
- h) As construction progresses, stabilization is required in those segments of the corridor that become available to do so. The Contractor shall not wait until all grading and paving operations are completed before commencing final surface restoration.
 - i) The Contractor shall anticipate multiple mobilizations to complete seeding, sodding, mulching, and surface restoration operations.

26) DEWATERING

- a) Contractor shall perform all construction work in dry conditions.
- b) Unless specified in the Bid Items, all costs associated with Dewatering activities shall be incidental to the project.

- c) Contractor shall submit dewatering methods to the Engineer for review. Obtain the Engineer's approval on methods prior to construction.
- d) Groundwater levels are subject to variation. No additional compensation will be permitted due to high groundwater conditions.
- e) Should cohesive soils with no wet sand seams or layers be encountered, it may be possible to control water seepage by draining groundwater to temporary construction sumps and pumping it outside the perimeter of the excavation.
- f) The Contractor shall not pump water from open excavation in sand and gravel below the natural ground water level.
- g) Contractor shall maintain water levels 2 feet or more below the bottom of excavations in saturated cohesionless (sand and/or gravel) soils to prevent upward seepage, which could reduce subgrade support.
 - i) A dewatering system (well points or shallow wells) shall be installed when working in cohesionless soils.
 - ii) Costs of installing and operating dewatering system are incidental, unless specified otherwise.
- h) Contractor shall provide means for conveying surface water encountered during construction.
 - i) Surface water shall be prevented from flowing into excavation and accumulated water shall be removed.
 - ii) Surface water and storm sewer flows shall be diverted around areas of construction.
 - iii) Sanitary sewers shall not be used for the disposal of dewatering or trench water.
- i) Contractor shall backfill pipe and structures prior to stopping dewatering operations. Contractor shall not lay pipe or construct concrete structures on excessively wet soils.
- j) Costs of conveying both surface water and groundwater are incidental.

27) DUST ABATEMENT

- a) The Contractor shall perform dust control operations necessary to proactively prevent the production of dust in amounts to cause nuisance or damage to property, vegetation, animals, or persons in the vicinity of the construction.
- b) The Contractor shall keep the surface of construction work areas and unpaved haul roads moist by spraying with uncontaminated water so as to prevent, not just reduce, airborne dust.
- c) The Contractor shall suspend construction or haul traffic when the Contractor cannot prevent airborne dust until such time as dust control can be re-established to the required levels.
- d) The Contractor shall be responsible for any damage resulting from dust originating from the construction. The dust abatement measures shall be continued until the Contractor is relieved of further responsibility under these Contract provisions.
- e) Requests by the Owner or Engineer for additional water to be placed for dust control shall be accomplished within 4 hours of notification and shall also include evenings and weekends as required or deemed necessary by the Owner or the Engineer. **Failure to perform the work requested within the 4 hours may result in the Owner or Engineer arranging for dust control by others. A contract deduction shall be made equal to the total of all costs to perform dust control so arranged, including not limited to labor, materials, equipment and administrative costs.**

28) INCIDENTAL CONTRACT ITEMS

- a) The furnishing and installing of specific items and/or the performance of work under certain circumstances shall not be individually paid in the absence of a specific bid item for the work. These costs shall be included in the Unit Price bid for the individual items associated with the stated specific item or work effort. Such items of work include, but are not limited to:

- Concrete header removal
- Connections to existing storm sewer structures and pipes unless specified for separate payment
- Construction and removal of temporary access roads
- Construction fencing
- Construction staging & phasing
- Coordination and cooperation with affected property owners
- Coordination and cooperation with the City of Storm Lake
- Coordination and cooperation with other Contractors
- Coordination and cooperation with other projects in the area
- Coordination and cooperation with utility companies
- Dewatering and handling storm water flow during construction
- Dust control measures
- Engineering Fabric
- Excavation, verification and protection of existing utilities
- Field and wood fence removal
- Field testing
- Finish grading
- Full depth sawcutting of existing pavement
- Grading for storm sewer outlets
- Granular backfill and bedding for storm and sanitary sewer installation
- Granular surfacing removal
- Maintenance and watering for seeding and sodding
- Maintenance of erosion control measures, including silt removal
- Material testing
- Monitoring weather conditions
- Mowing
- Overhaul
- Pipe and structure bedding material
- Porous backfill for subdrain
- Proof rolling
- Protection of existing hydrant(s) and valve(s)
- Protection of existing trees and plantings not shown as removals
- Protection of existing utilities and light poles
- Removing and reinstalling existing signs
- Reseeding
- Site cleanup/restoration
- Temporary safety closures
- Temporary sheeting and shoring
- Water valve removal
- Working backfill to reduce moisture content
- Working subgrade to achieve acceptable moisture content
- Wrapping of storm sewer pipe joints

*******END OF SECTION*******

NOTICE OF AWARD
(To be executed after bid is awarded)

TO: Contractor _____
Address 1 _____
Address 2 _____
City, ST Zip _____

PROJECT TITLE: 2022 4th Street Watermain Improvements

PROJECT DESCRIPTION: This project is for the construction of 180 LF of 8" PVC watermain for the elimination of dead ends and the installation and set up of a bulk water sales system at the west end of the same block and the installation of a 3" water service, meter, backflow preventer and hydrant to the City shop building. This includes the removal of the existing pavement, excavation and installation of the watermain, rehabilitation of the pavement, bulk water sales system installation, exterior and interior work associated with the 3" service, along with traffic control, granular driveway restoration, paved street and driveway replacement and turf restorations.

OWNER'S NAME: City of Storm Lake

The OWNER has considered the BID submitted by you for the above described WORK in response to its Advertisement for Bids dated _____, 2022, and Information for Bidders.

You are hereby notified that your BID has been accepted for items in the amount of \$ _____.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER within fifteen (15) days of this, the _____ day of _____, 2022.

You must deliver to the OWNER Three (3) fully executed counterparts of the Agreement, including all the Contract Documents. Each of the Contract Documents must bear your signature. You must deliver with the executed Agreement acceptable Contract Security (Bonds), Certificate(s) of Insurance, and other required information. Within ten days after you comply with the above conditions, the OWNER will return to you one fully executed counterparts of the Agreement.

Dated this, the _____ day of _____, 2022

City of Storm Lake
Storm Lake, IA 50588

BY: _____

TITLE: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE OF AWARD is hereby acknowledged by _____,
this, the _____ day of _____, 2022.

BY: _____

TITLE: _____

NOTICE TO PROCEED

(To be executed after Agreement, Bonds and Insurance Certificates are approved)

TO: Contractor
Address 1
Address 2
City, ST Zip

Date:
Project Title: 2022 4th Street Watermain Improvements
Project Owner: City of Storm Lake
Project Location: Storm Lake, IA 50588

You are hereby notified to commence WORK in accordance with the Agreement awarded on _____, 2019. The Contract Time shall commence to run on Anticipated start date: _____, 2022. WORK shall proceed in accordance with the dates set forth in the Contract and all other provisions of the Contract Documents.

City of Storm Lake
Storm Lake, IA 50588

BY: _____

TITLE: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by _____, this, the _____ day of _____, 2022.

BY: _____

TITLE: _____

Letter of Transmittal

Date: _____

Project No.: 0P1.125220

TO: _____

☐ UPS Dropdown Selection

☐ Fedex Ground

☐ Regular Mail

☐ Client Pick-up

☐ Hand Carry

☐ Fax

RE:

☐ Fax/Send

WE ARE ENCLOSING:

FOR YOUR:

☐ Review

☐ Records

☐ Approval

☐ Distribution

☐ Information

☐ Use as Requested

☐ Please Return Corrected Prints

REMARKS:

CC:

By:

TECHNICAL SPECIFICATIONS

SECTION 02510 – WATER SUPPLY FILL STATION

PART 1 -- GENERAL

1.1 SUMMARY

- A. Section includes providing the following equipment in accordance with the provisions of the Contract Documents:
 - 1. Package truck fill station - Complete multiple point loadout (overhead loadout, lower fill loadout, and hose bib) station for dispensing bulk potable water on 4th Street including:
 - (a) Process piping, appurtenances, valves, meter, and backflow preventer
 - (b) Controls and software that, as a minimum:
 - (1) Dispenses a specified volume of water
 - (2) Charges the customer's credit card and provides a receipt for water sold.

1.2 RELATED SECTIONS

- A. Section 15410 Plumbing Piping
- B. Section 15430 Plumbing Specialties

1.3 REFERENCES

- A. Not used.

1.4 SUBMITTALS

- A. Manufacturer's product data including:
 - 1. Technical product data and installation instructions for truck fill station materials and products.
- B. Shop drawings including:
 - 1. Piping and appurtenances materials, size, and location. Include details of truck fill station connections. Show interface and spatial relationship between piping and proximate structures.
- C. Operation and Maintenance manual and manufacturer's instructions.
- D. Record Drawings:
 - 1. At project closeout, submit for information record drawings of installed truck fill station and products including locations and elevations.

1.5 QUALITY ASSURANCE

- A. Manufacturer shall have a minimum of five (5) years of experience producing equipment substantially similar to that specified herein and shall be able to submit documentation of at least five (5) independent installations using the same size or larger equipment as specified.
- B. Each installation must have been in satisfactory operation for at least five (5) years.

- C. Provide equipment and components called for under this section by a single manufacturer or authorized sales representative. The equipment manufacturer or authorized sales representative shall, in addition to Contractor, assume the responsibility for proper installation and functioning of the equipment.
- D. Drawing layouts, items, and specification language for the package truck fill station are based on Flowpoint Environmental Systems. Modifications to the project that may be required to accommodate other approved manufacturer's equipment shall be included in Contractor's bid price.

1.6 WARRANTY

- A. Guarantee all components furnished as part of this Specification for a period of one (1) year from Substantial Completion.
- B. Provide software updates and phone support services free of charge for a period of one (1) year from Substantial Completion.

1.7 TRAINING AND FIELD SERVICE

- A. Training for Owner's personnel shall be for not less than two (2) total hours on the package truck fill.
- B. Provide onsite field configuration/start-up/testing.

1.8 USAGE AND LICENSING

- A. Provide a multi-user license to the facility to allow the software to be installed on up to three (3) PCs as required.

1.9 SEQUENCING AND SCHEDULING

- A. Verify Work with associated buried utilities is complete before installing truck fill station.

1.10 BASIS FOR COMPENSATION

- A. Compensation for all Work included under this Section shall be as per a Lump Sum item complete and operational with the items detailed in this section.

PART 2 -- PRODUCTS

2.1 GENERAL

- A. Provide piping materials and factory-fabricated piping products of the size, type, material, pressure rating, and capacity indicated on the Drawings. Where not indicated, provide proper selection as determined by Contractor to comply with installation requirements.

2.2 PACKAGE TRUCK FILL STATION BUILDING ENCLOSURE

- A. Enclose the interior truck fill station components in an approved enclosure. Building colors and materials shall be coordinated with the Owner following award. The enclosure shall consist of the following:
 - (a) Building and door: lockable, weatherproof, and insulated for severe heat and cold weather installations
 - (1) Door: External swing-out man door
 - (2) Door hardware: To be coordinated with the City during shop drawing phase
 - (b) Building colors and material: To be coordinated with the City during shop drawing phase. Suitable for exterior conditions in Iowa including insulation for energy efficiency.

- (c) Interior LED lighting and a 120VAC GFI convenience receptacle inside the enclosure.
- (d) 1500W electric heater shall be included to heat the building. Cooling is not needed.
- (e) Enclosure shall be configured to accept a single 20A, 120V, 3W power source. A disconnect switch and a panelboard shall be provided with the enclosure to distribute the power to all 120V equipment.
- (f) Enclosure shall be configured to accept a Cat5 or 6 ethernet cable for connection to the City network system for internet access.

B. Floor drain

- 1. Specification 15410 Plumbing Piping and Specification 15430 Plumbing Specialties.

2.3 PACKAGE TRUCK FILL STATION PIPING AND APPURTENANCES

A. Piping and fittings

- 1. All piping and fittings: 2-inch stainless steel (304) per Specification 15410 Plumbing Piping.
- 2. Provide all piping and fittings needed for truck fill as shown on the Drawings.
- 3. Secured with adequate floor pipe supports for the operation of the station. Pipe hangers are not acceptable.

B. Galvanized Overhead Fill Support

- 1. Galvanized overhead fill support for the overhead stainless steel piping overhead fill point (top fill).
- 2. Provided by the package truck fill manufacturer to their specifications.

C. Reduce Pressure Zone (RPZ) backflow preventer

- 1. Reduce Pressure Zone backflow preventer per Section 15430 Plumbing Specialties, Section 2.3, Backflow Preventers.

D. Camlock fitting

- 1. Two 2-inch Camlock female connections
- 2. Stainless steel
- 3. Seal: Buna
- 4. Type: "D" Quick disconnect female camlock coupler to female NPT threads
- 5. 250 PSI pressure rating

E. Flow meter

- 1. One 2-inch magnetic flow meter, suitable for use in potable water systems, with 4-20mA output proportional to flow (include transmitter as required).
 - (a) Material: compatible with stainless steel piping; Hastelloy integrated grounding and measuring electrodes
 - (b) AWWA C-207 flanges
 - (c) Meter to relay information to the truck fill access terminal
 - (d) Installed per manufacturer's instructions
 - (e) As manufactured by Siemens, MAG 5100 W Series, or approved equal.

F. Solenoid valve

- 1. Two 2-inch valves

- (a) Valves to be electrically operated and controlled by truck fill access terminal
 - (b) Valves shall be able to be adjusted regarding the speed of closure as to eliminate the potential for water hammer in the system.
- 2. One 1-inch valve
 - (a) Specification 15410 Plumbing Piping
 - (b) Material: stainless steel
- G. Ball valve
 - 1. Specification 15410 Plumbing Piping
 - (a) Material: compatible with stainless steel piping

2.4 ACCESS TERMINALS

- A. Provide access terminal interface at the following locations to allow for user to dispense water from one of three outlets as shown on the Drawings.
 - 1. Truck fill station
- B. All aspects of the credit card billing system shall be integrated and work directly with a credit card interface service.
- C. The access terminal shall include a credit card terminal, keypad and digital display for users to pay, choose their dispensing location and enter a specific volume of water to be dispensed and purchased. The station shall include three metering locations/valves. The station shall be constructed and tested as an assembly prior to delivery at the site.
- D. The access terminal shall be an integral part of a comprehensive, fully-managed package truck fill station, including the necessary software as described later in this Specification.
- E. The access terminal shall be constructed with corrosion-resistant materials, with outer door and access panels that can be closed to enable a wash down without damaging the internal mounted electrical devices. The access terminal shall be rated Type 4X stainless steel.
- F. The access terminal shall be provided with a daylight visible display and outdoor-rated, robust keypad. The display shall prompt the hauler with payment instructions and display responsive messages that allow the unattended use of the facility.
- G. The access terminal shall continue to function normally without a network connection to the office. All data shall be stored in non-volatile memory. When the network connection is established, all transaction data shall be automatically synchronized and securely stored to a database.
- H. The access terminal shall be maintained without requiring Arc Flash protective clothing. Motor starters or other high-voltage devices must be located in a separate control panel. Control circuits greater than 24VDC shall not be accepted.
- I. Access terminal
 - 1. Flowpoint Model FP-KTECK-FUAB16 integrated Keypad/HMI or approved equal.
 - 2. Secure, robust, and outdoor rated
 - 3. Clear, backlit LCD color display, visible in all levels of light
 - 4. Integrated stainless steel buttons with LCD screen c/w Lexan Screen Protector.

2.5 PROGRAMMABLE LOGIC CONTROLLER (PLC)

A. The package truck fill dispensing station shall be provided with the following components:

1. Programmable logic controller, PLC, including:
 - (a) Allen-Bradley 1769 Compactlogix PLC
 - (b) Configurable spare digital I/O
 - (c) Ethernet connection to software
 - (d) Non-volatile memory

2.6 PRINTER TERMINAL

A. Fill station shall be provided with a printer terminal for printing transaction receipts with the following components:

1. Compact thermal printer
2. Anti-paper-jam system
3. Integral auto-cutter
4. On-demand printed receipt for each transaction.

2.7 REQUIRED CREDIT CARD ACCEPTOR

A. Fill station shall be provided with a credit card acceptor with the following components:

- B. Credit Card swipe terminal by MONEX or approved equal with 2.5-inch full color LCD display and battery back up for data retention. Terminal shall be Wi-Fi and Bluetooth capable and have a magnetic strip reader, a smart card reader, and a contactless card reader.
- C. Credit Card transaction terms and monthly costs as per MONEX or approved equal.
- D. Credit Card merchant account is not required.

2.8 SECURITY

A. Building shall have key access, coordinate with Owner.

2.9 FILL HOSE

A. As part of the lump sum item, contractor to include one – 10 LF 2" diameter hard style discharge hose with camlock fittings compatible with the overhead fill station. Type and style of hose to be submitted as part of the shop drawings for this item.

2.10 AIR GAP UNIT

- A. As part of the lump sum item, contractor to include a conical style air gap unit, steel or aluminum construction with camlock fittings compatible with the overhead fill station and fill hose. Type and style of air gap unit to be submitted as part of the shop drawings for this item.
- B. Air gap unit shall be designed to sit over opening in tank and hold hose a minimum of 12" above the tank open to allow for an air gap between fill hose and hauler tank.

PART 3 -- SYSTEM FEATURES

3.1 CUSTOMER AND TRUCK FEATURES

- A. The software shall include an Overview Screen, divided into sections that shall display the Transaction Log, Customers, and quick-link to Reports. Data views shall be configurable to show customer activity using built-in sorting tools.
- B. The software shall have multiple pre-formatted reports that can be printed to a networked printer, emailed, or exported using common file formats. As a minimum, the software shall include reports to show Activity with daily totals, Statements, and Customer usage. Systems that only allow manual file retrieval from the station or manipulation of .csv files are not acceptable.
- C. User-friendly interface screens shall be included for the facility to enter billing rates, alarm identification, station name, and location. This data shall be used in both the basic and advanced features of the system management.

3.2 BILLING RATE FEATURES

- A. All billing features shall be verified with Owner prior to being programmed. Generally anticipated features are outlined below.
- B. System software must automatically collect all transactions from each Access Terminal/package truck fill Station at a user-defined interval.
- C. System software must have integrated on-line help screens.
- D. System software must allow User to define "Volume Units" for bill generation (i.e., m³, ft³, liters, bbl, US Gal, Imp Gal)
- E. System software must allow User to define billing method by Volume or and by Discountable Rate based on customer.
- F. System software must allow User to manage accounts on either a "Credit" basis or a "Pre-pay/Debit" basis.
- G. System software must allow User to print detailed Reports.
- H. The software shall allow the facility to define a list of allowed billing rates for dispensed water. The billing rate per 1/10/100/1000 units is used by the software to calculate the transaction's amount. Multiple billing rates offer the facility flexibility to allow volume or residential users a discount. The use of different rates is not required to use the software. Units can be user-defined (gallons, liters, bbl, etc.).
- I. The software shall total the transaction volume and calculate the total cost for the transaction.

3.3 BILLING AND PAYMENT FEATURES

- A. The facility shall be able to use the features of this software to substantiate the data recorded for each transaction and accurately calculate the total cost per transaction.
- B. The facility shall have the option to use the software to export the data to another computer for review. Export options shall include be XML, CSV, Excel, or HTML.
- C. The software shall allow the facility to manage each customer on a debit or credit basis. The customer is required to pay for each use in advance.
- D. The software shall cancel the transaction automatically if the customer's card is declined.
- E. The software shall allow the facility to charge on a metered basis.

3.4 OTHER FEATURES

- A. The software shall allow the facility to define the Station's Operating Time Schedule. Each day shall be configured with Open and Close times. If closed, station shall prompt the hauler that the station is "CLOSED".
- B. The system shall automatically disable and shut down if an alarm condition is detected. The interface screen shall read "OUT OF ORDER" and an alarm sent out.
- C. Provide the services of an authorized technician to make follow-up on-site modifications at the direction of the Owner for up to two (2) 4-hour sessions on non-consecutive days.

****** END OF SECTION 02510 ******

SECTION 09900 - PAINTING

PART 1 -- GENERAL

1.1 SUMMARY

- A. This section includes painting of all interior surfaces and exterior surfaces for water treatment facilities.
- B. Painting includes surface preparation, priming, finish coats, inspection, cleaning, and touch-up of surfaces and equipment in addition to shop priming and surface treatment.
- C. The painting subcontractor shall examine the specifications for the various other trades and shall thoroughly become familiar with all of their provisions regarding their painting; painting subcontractor shall understand that all surfaces that are left unfinished by requirements of other specifications shall be painted or finished as a part of this contract.
- D. Unless otherwise approved by the Engineer in writing, all coatings applied under a single paint system shall be the product of a single manufacturer.
- E. All paints supplied for projects in the State of Iowa shall comply with Iowa statutes.

1.2 RELATED SECTIONS

- A. Section 15060 – Process Piping

1.3 SUBMITTALS

- A. Information shall be submitted as per SUDAS.
- B. Information submitted shall include, but not be limited to the following:
 - 1. Paint manufacturer's name with paint specification details.
 - 2. Color charts of materials for selection of color.
 - 3. Technical and material safety data sheets on each paint material used.
 - 4. Manufacturer's recommended application procedures.
 - 5.

1.4 QUALITY ASSURANCE

- A. The label of Containers shall include the manufacturer's name, type of paint (stock number), color and instructions for reducing where applicable, mixing and application instructions, drying or curing time, storage and temperature limits.
- B. Field Quality Control shall be established by inspecting the first finished room, space or item as project of each color scheme for color, texture, and workmanship. The first acceptable room, space or item shall be designated as the project standard for each color scheme. The minimum space for determining the quality of work for spray application shall not be smaller than 100 square feet.
- C. The painting work shall be in conformance with the following applicable standards:
 - 1. American National Standards Institute (ANSI)
 - (a) A 13.1 - Scheme for the Identification of Piping Systems.
 - (b) Z 53.1 - Safety Color Code for Marking Physical Hazards.

2. Steel Structures Painting Council (SSPC) Surface Preparation Specifications.

- (a) SP 1 - Solvent cleaning. Removes oil grease, soil, etc., with other methods to remove rust, paint, and mill scale.
 - (b) SP 3 - Power Tool Cleaning. Removes loose material. Not intended to remove all scale or rust.
 - (c) SP 5 - White Metal Blast Cleaning. Removes all scale, rust, foreign matter. Leaves surface gray-white uniform metallic color.
 - (d) SP 6 - Commercial Blast Cleaning. Two-thirds of each square inch free of all visible residues; remainder only light discoloration.
 - (e) SP 7 - Brush-Off Blast Cleaning. Removes only loose material, remaining surface tight and abraded to give anchor pattern.
 - (f) SP 10 - Near-White Blast Cleaning. At least 95 percent of each square inch shall be free of all visible residues.
- D. The Contractor shall control the dry film thickness of the coatings on metal surfaces with a correctly calibrated thickness gage, type to be approved by Engineer. Contractor shall supply gage thickness samples for gage reference and calibration.

PART 2 -- PRODUCTS

2.1 MANUFACTURERS

- A. Tnemec
- B. Sherwin Williams
- C. International Coatings

2.2 SEALANTS

- A. Caulking sealant shall be Sikaflex 1A or Sikaflex 221(NSF approved for contact with potable water) or equal single component polyurethane sealant. The caulking used shall be submitted and approved by the Engineer in writing.

PART 3 -- EXECUTION

3.1 SUBSTRATE EXAMINATION

- A. Examine substrates and surfaces and conditions under which work is to be performed. Notify, in writing of any conditions detrimental to performance of the work. Do not proceed with this work until unsatisfactory conditions have been corrected; starting of painting work shall be construed as acceptance of surface and conditions within any particular area.
- B. Do not paint over dirt, rust, scale, grease, moisture, or conditions otherwise detrimental to formation of a durable paint film.

3.2 SURFACE PREPARATION

- A. Remove all hardware, hardware accessories, machined surfaces, plates, lighting fixtures, and similar items in place and not to be painted or provide surface-applied protection prior to surface preparation and painting operations. Remove mounted accessories if necessary for complete painting of items or adjacent surfaces. Following completion of painting of each space or area, reinstall removed items using workmen skilled in trades involved.

- B. Perform preparation procedures for each substrate in strict accordance with paint manufacturers written instructions and as outlined in the following schedule:
1. P1: SSPC-SP1 Solvent Cleaning
 - (a) The removal of all visible oil, grease, soil, drawing and cutting compounds and other soluble contaminants from surfaces with solvents or commercial cleaners using various methods of cleaning such as wiping, dipping, steam cleaning or vapor degreasing.
 2. P2: SSPC-SP2 Hand Tool Cleaning
 - (a) The removal of all loose mill scale, loose rust, loose paint and other loose detrimental foreign matter by the use of non-power hand tools. Hand tool cleaning will not remove adherent mill scale, rust and paint. Mill scale, rust and paint are considered adherent if they cannot be removed by lifting with a dull putty knife.
 3. P3: SSPC-SP3 Power Tool Cleaning
 - (a) The removal of all loose mill scale, loose rust, loose paint and other loose detrimental foreign matter by the use of power-assisted hand tools. Power tool cleaning will not remove adherent mill scale, rust and paint. Mill scale, rust and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Power Tool Cleaning provides a slightly higher degree of cleanliness than Hand Tool Cleaning, but is not regarded as adequate surface preparation for long-term exterior exposure of most high-performance coating system.
 4. P4: SSPC-SP6 or NACE 3 Commercial Blast Cleaning
 - (a) The removal of all visible oil, grease, dirt, dust, mill scale rust, paint, oxides, corrosion products and other foreign matter by compressed air nozzle blasting, centrifugal wheels or other specified method. Discoloration caused by certain stains shall be limited to no more than 33 percent of each nine square inches of surface area. A blast profile of 1.5 - 2.0 mils shall be achieved.
 5. P5: SSPC-SP7 or NACE 4 Brush-Off Blast Cleaning
 - (a) The removal of all visible oil, grease, dirt, dust, loose mill scale, loose rust, and loose paint by compressed air nozzle blasting, centrifugal wheels or other specific method. Tightly adherent mill scale, rust and paint may remain on the surface. Mill scale, rust and paint are considered tightly adherent if they cannot be removed by lifting with a dull putty knife.
 6. P6: SSPC-SP10 or NACE 2 Near-White Metal Blast Cleaning
 - (a) The removal of all visible oil, grease, dirt, dust, mill scale rust, paint, oxides, corrosion products and other foreign matter by compressed air nozzle blasting, centrifugal wheels or other specified method. Discoloration caused by certain stains shall be limited to no more than 5 percent of each nine square inches of surface area. A blast profile of 1.5 - 2.0 mils shall be achieved.
 7. P7: SSPC-SP12 and NACE5 Pressure Wash
 - (a) The entire surface shall high pressure washed at a minimum 1500 p.s.i. removing all loose paint, dirt, or foreign matter. Upon completion of pressure washing procedure, rinse all areas with potable water and allow to dry. Dryness of surface shall be verified by use of polyethylene moisture test or a reading of 17% or less utilizing a moisture meter.
 8. P8: SSPC-SP12 and NACE5 High Pressure Wash
 - (a) The entire surface shall be high pressure (minimum 2500 psi) washed with a biodegradable, phosphate and residue free additive. A stiff bristle brush shall be used to assist in the removal of all dirt, mildew, dust and other foreign matter. All failed and/or rusted metal surfaces shall be prepared by power tool cleaning by any of the methods outlined in the Steel Structures Painting Council SSPC-SP3. Feather rough edges to provide a smooth transition from the existing sound coating.

9. P9: Acid Etching

- (a) Remove residual dust and dirt with water using a high-pressure hose. Remove excess water and allow concrete to dry until the surface is damp. Uniformly apply a solution of 1-part Muriatic Acid and 2 - 4 parts fresh water utilizing low pressure spray equipment or sprinkling cans. When bubbling begins to subside immediate rinse with clean water while scrubbing with a stiff bristle broom. Test with pH paper and continue the rinsing operation until a pH of 7 or higher is obtained. Allow floor to dry thoroughly before coating.

10. P10: Concrete

- (a) Prepare cementitious surfaces of concrete, concrete block, cement plaster, and mineral fiber board to be painted by removing all efflorescence, chalk, dust, dirt, grease, oils and by roughening as required to remove glaze.

11. P11: Wood

- (a) Clean wood surfaces to be painted of all dirt, oil, or other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Sandpaper smooth those finished surfaces exposed to view. Scrap and clean small, dry seasoned knots and apply a thin coat of white shellac or other approved sealer, before application of priming coat. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sandpaper smooth when dried.

12. P12: Concrete (Abrasive Blasted)

- (a) Abrasive blast all surfaces to remove all laitance and solid contaminants. Blasting shall be performed sufficiently close to the surface so as to open up surface voids, bug holes, air pockets and other subsurface irregularities.

13. P13: SSPC-SP11 Power Tool Cleaning to Bare Metal

- (a) The removal of all visible oil, grease, dirt, mill scale, rust, paint, oxide, corrosion products, and other foreign matter. Slight residues of rust and paint may be left in the lower portion of pits if the original surface is pitted. Differs from SSPC-SP3 in that it requires more thorough cleaning and a surface profile not less than 1 mill (25 microns). For areas where abrasive blasting is prohibited or not feasible.

14. P14: Pits and Seams (Epoxy Filler)

- (a) Spot fill all pits deeper than and/or all seams wider than one eighth of one inch with Tnemec Series 215 Surfacing Epoxy or Sherwin-Williams Steel Seam FT 910 Patching/Surfacer. The Steel Seam FT 910 Patching /Surfacer may be "smoothed out" with a brush and a small amount of water after 10-15 minutes after application. Excess material shall be scraped off with a wide putty knife and smoothed out with a small brush or squeegee dampened with Tnemec Thinner #2.

15. P15: Chloride Contaminated Substrates

- (a) Step 1: The entire surface shall high pressure washed (140 deg. F. min.) at a minimum 2500 p.s.i. with a minimum 3-4 GPM delivery at the nozzle, to remove all visible salts, loose paint, dirt, or foreign matter.
- (b) Step 2: Upon completion of pressure washing procedure, all surfaces shall be abrasive blast cleaned to a Commercial Finish, removing mill scale, rust, dirt, or foreign matter by any of the recommended methods outlined in Steel Structures Painting Council's Specification SSPC-SP6.
- (c) Step 3: Repeat Step 1. Utilizing a Surface Contamination Analysis Test verify chloride levels of substrate. If levels exceed 5 micrograms per square centimeter consult coating manufacturer for recommendation.
- (d) Step 4: Upon completion of pressure washing procedure, all surfaces shall be abrasive blast cleaned to remove all rust bloom that may have recurred. A blast profile of 1.5 - 2.5 mils shall be achieved.

3.3 MATERIAL PREPARATION

- A. Prepare painting materials in accordance with manufacturer's directions. Mix materials before application to produce uniform density. Stir as required during application of materials. Do not stir surface film into material; remove film and if necessary, strain materials before using.
- B. Store materials not in actual use in tightly covered containers. Maintain containers used in storage, mixing and application of paint in a clean condition, free of foreign materials and residue.

3.4 APPLICATION

- A. Manufacturer's instructions shall be strictly followed in the application of proprietary coatings.
- B. All coatings shall be applied by experienced and qualified painting subcontractors.
- C. Each coat shall produce a minimum dry film thickness as specified herein. In areas where this thickness is not developed, sufficient additional coats shall be applied to produce it.
- D. Care shall be exercised not to damage adjacent work during sandblasting operations.
- E. Paint shall not be applied in extreme heat, nor in dust or smoke laden air, nor in damp or humid weather. Temperature must be 50°F or higher and relative humidity must be less than 85 percent.
- F. Drying times shall be not less than called for in manufacturer's instructions.
- G. Spray painting shall be conducted under controlled conditions, and the Contractor shall be fully responsible for any damage to adjacent work or adjoining property occurring from spray painting.
- H. Cover or otherwise protect surfaces not being painted, areas not to be painted, and the work of other trades. Remove protective materials when appropriate.
- I. Install adequate ventilation equipment in all areas of application to ensure that at no time does the content of air exceed the Threshold Limit Value given on the manufacturer's Material Safety Data Sheets for the specific coatings being applied.
- J. After Engineer's approval of surface preparations, apply first coat of the system the same day. Use properly designed brushes, rollers and spray equipment for all applications. Film thickness of each system shall meet the minimum specified but not exceed it more than 20 percent.
- K. Painting shall remain 3 inches away from unprepared surface of any substrate. When steel is blasted, do not coat the last 3 inches of the blasted area until unprepared adjacent surface is prepared.
- L. Each coat will be inspected by the Engineer prior to application of the next coat. Areas found to contain runs, overspray, roughness, or other signs of improper application shall be required to be recoated in accordance with the Engineer's instructions.
- M. Woodwork shall be sanded smooth and knots and pitch streaks shall be painted with a thick coat of orange shellac or a resin sealer, except for stained wood. Nail holes and minor imperfections shall be filled with putty between first and second coat; color of putty shall match stain in the case of stained work.
- N. Interior surfaces of ducts behind grilles and diffusers, where duct is visible, shall be painted flat black.
- O. Unless otherwise directed or permitted by the Engineer, all piping, vents, conduits, items of equipment, miscellaneous fixtures, appurtenances and the like, shall be painted to match the color of adjacent wall and ceiling surfaces.
- P. Provide daily cleanup of both storage and working areas and removal of all paint refuse and trash.

3.5 PROTECTION

- A. Protect work of other trades, weather to be painted or not, against damage by painting and finishing work. Correct any damages by cleaning, repairing or replacing and repainting.
- B. Provide "wet paint" signs as required to protect newly painted surfaces. Remove temporary protective wrappings provided by others for protection of their work after completion of painting operations.

3.6 CLEAN-UP

- A. During progress of work, dispose of discarded paint materials, rubbish, cans and rags. Upon completion of painting work, clean all paint-spattered surfaces by proper methods of washing and scraping, using care not to scratch or otherwise damage finished surfaces.

3.7 CAULKING PIPE FLANGE ANNULAR SPACE

- A. The annular space between flange and the pipe in all vertical and horizontal pipes shall be caulked with clear silicone sealant after finish painting to prevent condensate from collecting in the space. This annular space and all exposed pipe threads shall be stripe coated with base coat prior to painting.

3.8 SCHEDULES

- A. Areas to be painted include the following:
 - 1. Paint exterior of all exposed piping.
- B. No painting is necessary on the following:
 - 1. Aluminum hardware, fixtures, casework, finish hardware, etc.
 - 2. Pre-painted or pre-finished electric control panels, disconnects, switch plates, etc.
 - 3. Stainless steel surfaces.
- C. Contractor shall paint all exposed ferrous metal piping and PVC piping in conformance with the following color schedule:
 - 1. Utility Water: Blue
 - 2. Non-Potable Utility Water: Blue with Red Stripe

Any change in the piping color schedules by Engineer or OWNER shall be at no additional cost.

- D. Paint and paint products shall be supplied according to the following application schedule. Tnemec or Sherwin Williams (SW) products are used as Reference Series.
 - 1. Exterior Ferrous & Non-Ferrous Metals (Exterior of Pipes, Valves & Fittings)
Surface Preparation: P4 (Ferrous); Brush-Off Blast (Non-Ferrous)
1 coat of Tnemec N69F Hi-Build Epoxoline II Epoxoline or Series N140-1211 or SW Macropoxy 646 FCE, 4.0-6.0 mils DFT. All exposed pipe threads and annular space between pipe flange and pipe shall be stripe coated prior to painting.
1 coat of Series73-color Endura Shield or SW Acrolon 218HS, 4.0-6.0 mils DFT

*******END OF SECTION*******

SECTION 15060 - PROCESS PIPING AND PIPE FITTINGS

PART 1 -- GENERAL

1.1 THE REQUIREMENTS

- A. The CONTRACTOR shall furnish and install all piping systems shown and specified, in accordance with the requirements of the Contract Documents. Each system shall be complete with all necessary fittings, hangers, supports, anchors, expansion joints, flexible connectors, valves, accessories, heat tracing, insulation, lining and coating, testing, disinfection, excavation, backfill and encasement, to provide a functional installation.
- B. The piping shown is intended to define the general layout, configuration, routing, method of support, pipe size, and pipe type. The mechanical drawings are not pipe construction or fabrication drawings. It is the CONTRACTOR's responsibility to develop the details necessary to construct all mechanical piping systems, to accommodate the specific equipment provided, and to provide and install all spools, spacers, adapters, connectors, etc., for a complete and functional system.
- C. All valves and fittings shall be supplied with 304 stainless steel bolts and washers.
- D.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 09900 Painting

1.3 REFERENCE SPECIFICATIONS, CODES AND STANDARDS

A. Commercial Standards:

ANSI/AWWA C104/A21.4	Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water.
ANSI/AWWA C105/A21.5	Polyethylene Encasement for Ductile-Iron Piping for Water and Other Liquids.
ANSI/AWWA C110/A21.10	Ductile-Iron and Gray-Iron Fittings, 3 in. Through 48 in. for Water and Other Liquids.
ANSI/AWWA C111/A21.11	Rubber-Gasket Joints for Ductile-Iron and Gray-Iron Pressure Pipe and Fittings.
ANSI/AWWA C115/A21.15	Flanged Ductile-Iron and Gray-Iron Pipe with Threaded Flanges.
ANSI/AWWA C150/A21.50	Thickness Design of Ductile-Iron Pipe.
ANSI/AWWA C151/A21.51	Ductile-Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water or Other Liquids.
ANSI/AWWA C153/A21.53	Ductile-Iron Compact Fittings, 3 in. Through 12 in. for Water and Other Liquids.
AWWA C200	Steel Water Pipe 6-inch and Larger.
AWWA C205	Standard for Cement-Mortar Protective Lining and Coating for Steel Water Pipe - 4 inch and Larger - Shop Applied.
AWWA C206	Standard for Field Welding of Steel Water Pipe.
AWWA C207	Standard for Steel Pipe Flanges for Waterworks Service - Sizes 4 inch through 144 inches.
AWWA C208	Dimensions for Fabricated Steel Water Pipe Fittings.
AWWA C209	Cold-Applied Tape Coatings for the Exterior of Special Sections, Connections, and Fittings for Steel Water Pipelines.
AWWA C210	Standard for Liquid Epoxy Coating for the Interior and Exterior of Steel Water Pipelines.
AWWA C213	Standard for Fusion-Bonded Epoxy Coating for the Interior and Exterior of Steel Water Pipelines.

AWWA C214	Tape Coating Systems for the Exterior of Steel Water Pipelines.
AWWA C600	Installation of Ductile Iron Water Mains and Their Appurtenances.
AWWA M-11	Steel Water Pipe - A Guide for Design and Installation.
ASTM C150	Specification for Portland Cement.
ASTM A53	Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless.
ASTM A139	Specification for Electric-Fusion (ARC) welded steel pipe (NPS 4 and over).
ASTM A312	Specification for seamless and welded Austenitic stainless steel pipes.
ASTM A234	Specifications for pipe fittings of wrought carbon steel and alloy steel for moderate and elevated temperatures.
ASTM A774	Specification for as-welded wrought Austenitic stainless steel fittings for general service at low and moderate temperatures.
ASTM D1785	Specification for Polyvinyl Chloride Plastic Pipe, Schedules 40, 80 and 120.
ASTM D2241	Specification for Polyvinyl Chloride Pressure-Rated Pipe (SDR Series).

1.4 CONTRACTOR SUBMITTALS

- A. The CONTRACTOR shall submit complete shop drawings and certificates, test reports, affidavits of compliance, of all piping systems, in accordance with the requirements in SUDAS for "Submittals". The submittals shall include detailed layout, spool, or fabrication drawings which show all pipe spools, spacers, adapters, connectors, fittings, and pipe supports necessary to accommodate the equipment and valves provided in a complete and functional system.

PART 2 -- PRODUCTS

2.1 PIPES AND FITTINGS

A. Ductile Iron Pipe and Fittings

1. Ductile iron pipe shall conform to the requirements of ANSI A21.51 (AWWA C151) standard specification for centrifugally cast ductile iron pipe for water or other liquids.
2. Ductile iron pipe in exterior locations shall be provided with either mechanical joint type or push-on type ends, and shall be of ANSI/AWWA thickness class as follows:

<u>Pipe Diameter</u>	<u>ANSI Thickness Class</u>
4 or smaller"	Class 52
6" or larger	Class 52
3. Ductile iron pipe in interior locations shall be provided with flanged, or mechanical joint type ends as shown on the plans and all interior ductile iron piping shall be ANSI/AWWA thickness Class 53 (minimum). Grooved and shouldered type joints conforming to AWWA C606 will be permitted, and at some locations are designated for use for special applications or for clearance.
4. Ductile iron flanges shall conform to ANSI/AWWA C115 standard 125# template and shall be rated for 250 psi. Mechanical joints and push-on joints shall conform to ANSI/AWWA C111 standard for rubber gasket joints for ductile iron and gray iron pressure pipe and fittings.
5. Unless otherwise shown on the plans, ANSI/AWWA short-body ductile iron fittings shall be furnished. Short body fittings shall conform to ANSI/AWWA C110. Flanged long radius elbows, reducing on-the-run tees, side outlet fittings, eccentric reducers and laterals shall conform to ANSI B16.1 standard specification for flanged fittings and flanges. Restraint joint type fittings, EBAA Iron Megalug Series 1100 or equal, conforming to ANSI/AWWA C153/A21.53 shall be supplied for mechanical and push-on joints.
6. The interior coating for the ductile iron pipe and fittings shall be cement mortar lined with asphalt seal coating. Pipe used for buried locations shall be furnished with standard bituminous exterior coating. Pipe

used for interior and exposed location shall not have a bituminous exterior coating but shall be furnished with a shop primed coating of Tnemec Primer, or equal, to facilitate painting as specified in Section 09900.

7.

2.2 COUPLINGS

A. Flanged Coupling Adapters (FCA)

1. Flanged coupling adapters shall be provided where indicated. CONTRACTOR may install additional FCA at no additional cost as he desires for ease of piping installation. FCA and piping shall be secured against movement with fixed supports or tie rods. FCA shall be Dresser Style 127, Rockwell/Smith-Blair Type 912 with anchor studs for 12 inches and under; Type 913 for 14 inches and over. Coupling adapters shall be of cast iron construction with shop coating.

B. Sleeve-Type Couplings

1. Flexible sleeve-type pipe couplings shall be installed where shown on the plans or for transition between pipe materials. Couplings shall be provided as recommended by the pipe manufacturer to accommodate pipe movement due to temperature changes and shall be constructed of materials compatible with the contained fluid. Couplings and piping on pressure lines shall be secured against movement with tie rods. Couplings shall be suitable for the type and dimension of pipes to be connected. Interior of steel middle rings shall be epoxy-coated. Couplings shall be as manufactured by Dresser, Smith-Blair/Rockwell or equal.

C. Mechanical Couplings

1. Couplings: Dresser Style 38, Rockwell/Smith-Blair 411 or 441 or equal without pipe stop.
2. Gaskets: Oil resistant synthetic rubber meeting the requirements of ASTM D2000.

D. Grooved End Couplings

1. Ductile Iron Pipe Couplings
 - (a) Coupling: Victaulic Style 31 or equivalent Grinnell Grivlok.
 - (b) Gasket: Grade M flush seal gasket.
2. Steel Pipe Couplings
 - (a) Coupling: Victaulic Style 77 or Style 07 or equivalent Grinnell Grivlok.
 - (b) Gasket: Grade E rubber gaskets.
 - (c)

2.3 WALL SLEEVES

- A. Wall and/or floor pipe penetrations may be made by means of a sleeve capable of being bolted directly to the formwork to prevent misalignment.
- B. Seal of the annular space between the carrier pipe and the sleeve shall be by means of a confined rubber (BUNA-S) gasket capable of withstanding 350 psi.
- C. Sleeve shall be manufactured from Ductile Iron with an integrally cast waterstop of 1/2" minimum thickness and 2 1/2" minimum height.
- D. Manufacturer or Equal
 1. Omni*Sleeve

2.4 PIPE HANGERS AND SUPPORTS

- A. Pipe hangers or supports shall be furnished and installed for all interior or exposed process piping as shown on the plans or at intervals not to exceed 8'-0". Hangers shall be Grinnell Figure 260, Michigan Hanger No. 400 or equal. Hangers shall be supported by solid rods and nuts to brackets, concrete inserts or as shown on the plans. Brackets shall be Grinnell Figure 195, Michigan Hanger No. 352 or equal. All supports shall be hot-dip galvanized.
- B. Unless shown otherwise on the plans, pedestal supports shall be used when piping is installed at or near floor level, and shall consist of galvanized floor flange, pipe and saddle. Anchor bolts shall be provided where necessary. All supports shall be adjustable except when specifically shown otherwise on the Plans.

PART 3 -- EXECUTION

3.1 HANDLING

- A. Pipe, fittings, and accessories shall be handled in a manner that will ensure installation in sound, undamaged condition. Equipment, tools, and methods used in handling and installing pipe and fittings shall not damage the pipe and fittings.
- B. Hooks inserted in ends of pipe shall have broad, well padded contact surfaces.
- C. Pipe and fittings in which the cement lining has been damaged shall be replaced. Small and readily accessible damaged areas may be repaired.
- D. All pipe coating which has been damaged shall be repaired by the CONTRACTOR before installing the pipe.

3.2 CUTTING PIPE

- A. Cutting shall be done in a neat manner, without damage to the pipe or to the cement lining.
- B. Cuts shall be smooth, straight, and at right angles to the pipe axis. After cutting, the end of the pipe shall be dressed with a file to remove all roughness and sharp corners.
- C. Ends of ductile iron pipe shall be cut with a saw, abrasive wheel, or oxyacetylene torch. Field cut holes for saddles shall be cut with mechanical cutters; oxyacetylene cutting will not be permitted.

3.3 CLEANING

- A. The interior of all pipe and fittings shall be thoroughly cleaned of foreign matter before being installed and shall be kept clean until the work has been accepted.
- B. Before jointing, all joint contact surfaces shall be wire brushed if necessary, wiped clean, and kept clean until jointing is completed.
- C. Precautions shall be taken to prevent foreign material from entering the pipe during installation. Debris, tools, clothing, or other materials shall not be placed in or allowed to enter the pipe.
- D. Whenever pipe laying is stopped, the open end of the pipe shall be sealed with a watertight plug which will prevent trench water from entering the pipe.

3.4 INSPECTION

- A. Pipe and fittings shall be carefully examined for cracks and other defects immediately before installation; spigot ends shall be examined with particular care.
- B. All defective pipe and fittings shall be removed from site of the work.

3.5 ALIGNMENT

- A. Pipelines or runs intended to be straight shall be laid straight.
- B. Deflection from a straight line or grade shall not exceed the values stipulated in Table 1 or Table 2 of AWWA C600, unless specially designed bells and spigots are provided.
- C. Either shorter pipe sections or fittings shall be installed where the alignment or grade requires them.

3.6 PIPE LAYING

- A. The type of pipe to be used shall be as shown on the plans. All pipe shall be laid and maintained to the required line and grade.
- B. Proper implements, tools and facilities satisfactory to the ENGINEER shall be provided and used by the CONTRACTOR for the safe and convenient prosecution of the work.
- C. Cutting of pipe shall be done in a neat and workmanlike manner without damage to pipe or lining. Pipe shall be handled properly. Materials must at all times be handled with care to prevent damage. Under no circumstances will pipe be dropped or damaged. Hook ends shall not be used for installing or removing pipe.
- D. The pipe and fittings shall be inspected for defects and, while suspended above grade, be rung with a light hammer to detect cracks.
- E. Every precaution shall be taken to prevent foreign material from entering the pipe while it is being placed in the line. During laying operations, no debris, tools, clothing or other materials shall be placed in the pipe.
- F. After placing a length of pipe in the trench, the spigot end shall be centered in the bell and the pipe forced home and brought to correct line and grade. The pipe shall be secured in place with approved backfill material tamped under it except at the bells. Pipe joint deflection shall not exceed manufacturer's recommendations.
- G. At times when pipe laying is not in progress, the open ends of pipe shall be closed by a watertight plug or other means approved by the ENGINEER.
- H. Pipe shall be laid with bell ends facing in the direction of laying unless directed otherwise by the ENGINEER.
- I. No pipe shall be laid in water or when, in the opinion of the ENGINEER, trench conditions are unsuitable.

3.7 ENCASEMENT OF PIPE IN CONCRETE UNDER STRUCTURES AND FOOTINGS

- A. All piping under floors, structures and footings shall be encased in concrete with a minimum compressive strength of 3000 psi. The length of encasement shall extend at least 24-inches beyond the floor, structure or footing exterior side.

3.8 FIELD JOINTS

- A. Joints in buried locations shall be mechanical joint or push-on type unless otherwise indicated on the drawings.

- B. Bells on wall castings and wall sleeves shall be mechanical joint with tapped holes for tie rods or stud bolts.
- C. All other joints shall be flanged unless otherwise indicated on the drawings.

3.9 MECHANICAL JOINTS

- A. Mechanical joints shall be carefully assembled in accordance with the manufacturer's recommendations. If effective sealing is not obtained, the joint shall be disassembled, thoroughly cleaned, and reassembled.
- B. Over-tightening bolts to compensate for poor installation practice will not be permitted. Anchored mechanical joints, A.M.J., with retainer glands or other suitable means of joint restraint shall be used where indicated on the drawings.
- C. The holes in mechanical joints with tie rods shall be carefully aligned to permit installation of the tie rods.
- D. In flange and mechanical joint pieces, holes in the mechanical joint bells and the flanges shall straddle the top (or side for vertical piping) centerline. The top (or side) centerline shall be marked on each flange and mechanical joint piece at the foundry.

3.10 PUSH-ON JOINTS

- A. The pipe manufacturer's instruction and recommendations for proper jointing operations shall be followed.
- B. All joint surfaces shall be lubricated with heavy vegetable soap solution immediately before the joint is completed. Lubricant shall be suitable for use in potable water, shall be stored in closed containers, and shall be kept clean.
- C. Each spigot end shall be suitably beveled to facilitate assembly.
- D. Pipe ends for restrained joint pipe shall be prepared in accordance with the pipe manufacturer's recommendations.

3.11 FLANGED JOINTS

- A. Pipe shall extend completely through screwed-on flanges.
- B. The pipe end and flange face shall be finish machined in a single operation.
- C. Flange faces shall be flat and perpendicular to the pipe centerline.
- D. When bolting flanged joints, care shall be taken to avoid restraint on the opposite end of the pipe or fitting which would prevent uniform gasket compression or which would cause unnecessary stress in the flanges.
- E. One flange shall be free to move in any direction while the flange bolts are being tightened.
- F. Bolts shall be tightened gradually and at a uniform rate, so that gasket compression is uniform.
- G.

3.12 MECHANICAL COUPLINGS

- A. Mechanical couplings shall be carefully installed in accordance with the manufacturer's recommendations. Pipe ends shall be clean and smooth.
- B. A space of at least 1/4 inch and not more than one inch shall be left between the pipe ends.

3.13 GROOVED JOINTS

- A. Piped systems with grooved joints may be provided in lieu of screwed, flanged, welded or mechanical joint system for above grade steel and ductile iron process piping. Grooved end couplings will not be permitted in

buried piping. The CONTRACTOR shall make the coupling manufacturer responsible for selection of correct style of coupling and gasket for each individual location.

- B. Completed joints shall be rigid and shall not allow angular deflection or longitudinal movement.
- C. Special care shall be taken when connecting to pumping equipment to avoid transmitting stresses to the pump flanges by the connected piping. Piping shall be permanently supported so that accurate matching of piping and abutting pump flanges is obtained before installation of any bolts in those flanges.

3.14 ANCHORAGE OF PROCESS PIPING AND WATER SERVICES

- A. For all piping with mechanical or push-on joints, at all tees and at bends deflecting 22-1/2° or more, movement shall be prevented by connecting sufficient joints together with threaded rod to withstand the test pressure specified in Paragraph 3.14 or 1.5 times the working pressure whichever is higher. The restraining length shall be calculated according to Ductile Iron Pipe Research Association (DIPRA) "Thrust Restraint Design for Ductile Iron Pipe" manual. A safety factor of 1.5 shall be used to calculate the restrained length. Concrete thrust blocks shall not be used alone to anchor pressure piping.

3.15 HYDROSTATIC TESTING

- A. Interior and exterior piping field leakage testing shall be completed as outlined in SUDAS Section 5030.

3.16 DISINFECTION OF WATER SERVICE

- A. Watermain piping, both interior and exterior, shall be disinfected as per SUDAS Section 5030.

****** END OF SECTION ******

SECTION 15150 - METERS

PART 1 -- GENERAL

1.1 THE REQUIREMENT

- A. The CONTRACTOR shall furnish and install all meters and flow measurement devices with associated instrumentation and controls as shown and specified herein, complete and operable, for functions including flow measurement of fluids including water, wastewater, chemicals, gases, and sludge, all in accordance with the requirements of the Contract Documents.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 09900 - Painting
- B. Section 15060 – Process Piping

1.3 REFERENCE SPECIFICATIONS, CODES AND STANDARDS

- A. Building Code:
International Building Code (IBC) of the International Conference of Building Officials (ICBO).
- B. Commercial Standards:
Cast Iron Pipe Flanges and Flanged Fittings, Class 25, 125, 250, and 800.
ANSI/AWWA C207-78 Steel Pipe Flanges for Waterworks Service - Sizes 4 In. Through 144 In.
ANSI/AWWA C701-78 Cold-Water Meters-Turbine Type for Customer Service.
ANSI/AWWA C702-78 Cold-Water Meters-Compound Type.
AWWA C704-70 Cold-Water Meters-Propeller Type for Main Line Applications.
ASME Report Fluid Meters, Sixth Edition, 1971.

1.4 CONTRACTOR SUBMITTALS

- A. **Shop Drawings:** The CONTRACTOR shall submit complete shop drawings of all meters for review in accordance with the SUDAS Section for "Submittals". Each meter shall be identified with its equipment number, as shown or specified.
- B. **Manufacturer's Data:** With the shop drawings, the CONTRACTOR shall also furnish certified curves indicating flow versus differential pressure and any other information called for in the individual meter specifications.
- C. **O & M Manuals:** The CONTRACTOR shall furnish to the ENGINEER five (5) identical copies of complete operation and maintenance instructions of all the metering systems including instrumentation and controls, as specified under paragraph "Technical Manuals" of the Section entitled, "Submittals".
- D. **Spare Parts:** The CONTRACTOR shall provide a list of manufacturer's recommended spare parts and after the ENGINEER'S approval, shall furnish all spare parts suitably packaged and labeled for each meter device.
- E. **Special Tools:** A list of special tools required shall be submitted to the ENGINEER for approval. After approval the CONTRACTOR shall supply these tools suitably wrapped and identified for application. Special tools shall include substitute pipe spools for each size of meter for maintenance purposes. Each spool shall be labeled to identify the meter size for which it may be used as a temporary replacement.

1.5 QUALITY ASSURANCE

- A. **Inspection and Testing Requirements:** After installation, the CONTRACTOR shall obtain the services of an experienced factory service representative to inspect and test all meters for proper performance and installation.
- B. **Accuracy Requirements:** Unless otherwise specified herein, the flow meters shall be guaranteed to register flow to an accuracy of ± 2 percent of actual flow throughout the range specified.

1.6 MANUFACTURER'S SERVICE REPRESENTATIVE

- A. **Erection and Startup Assistance:** During erection and startup of the plant the CONTRACTOR shall obtain all necessary assistance from an experienced factory service representative to ensure a correct installation, in accordance with the manufacturer's instructions.
- B. **Instruction of OWNER's Personnel:** After completion of the installation and during startup of the plant, the CONTRACTOR shall instruct the OWNER's personnel in the proper operation, maintenance and repair of all metering equipment.

1.7 GUARANTEES, WARRANTIES

- A. After completion the CONTRACTOR shall furnish to the OWNER the manufacturer's written guarantees, that the metering systems will operate within the published accuracies and flow ranges and meet these specifications. The CONTRACTOR shall also furnish the manufacturer's warranties as published in its literature and as specified.

PART 2 -- PRODUCTS

2.1 MAGNETIC FLOW METER

- A. Magnetic flow meters shall use a D.C. pulsed electro-magnetic field to produce a signal linearly proportional to the flow rate through the meter. The accuracy of the flow signal shall be within $\pm 1\%$ of the actual flow rate for all flow rates having a velocity through the primary element of 3 fps or greater. At rates of flow having a velocity less than 3 fps, but not less than 1 fps through the primary element, the accuracy shall be $\pm 2\%$ of the actual rate of flow. The field coils producing the magnetic field shall be completely encapsulated. Meters in intermittently pumped flow lines shall include a positive zero relay feature for non-pumping periods. Grounding rings or probes shall be provided as required wherever non-conductive piping is installed adjacent to the magmeter.
- B. The meter tube shall be constructed of steel with ANSI 150-lb flanged ends unless otherwise specified. The electrodes shall be 316SS self-cleaning (bullet nose) type and shall be field replaceable. The liner material shall be PTFE. External surfaces shall be factory finished with a corrosion-resistant epoxy coating. Meters for Sodium Bisulfite service shall have Teflon liners and tantalum electrodes.
- C. The flow meter system shall include a signal converter/transmitter with 4-20 ma output (600 ohm load minimum) linearly proportional to the flow rate, integral flow indicator scaled in engineering units, 6-digit non-reset totalizer, all located in a NEMA 4X enclosure mounted adjacent to the meter. The flow meter and transmitter system shall be powered by a single 120 VAC power source. Interconnecting cables between the flow meter and transmitter shall be furnished.
- D. The meters shall be installed in easily accessible locations for ease of reading and maintenance, and, where shown, for balancing of flow in several lines, in conjunction with throttling and shut-off valves. Wherever possible, all meters shall be installed in such a way to provide the manufacturer's recommended straight approach and straight piping downstream. All meters, shut-off and balancing valves shall be firmly supported from the structure or from the floor with approved supports. In-line meters shall be installed to provide full-line flow and not less than the manufacturer's recommended head at all times.
 - 1. Manufacturers are Badger, Emerson/Rosemount, ABB, Siemens or Endress Hauser or approved equal.

PART 3 -- EXECUTION

3.1 INSTALLATION

- A. The CONTRACTOR shall assemble and install all equipment specified herein, in strict accordance with the manufacturer's published instructions, under the supervision of the manufacturer's representative, under the general review of the ENGINEER. All installations shall be accomplished by competent craftsmen in a workmanlike manner.

- B. The meters shall be installed in easily accessible locations for ease of reading and maintenance, and, where shown, for balancing of flow in several lines, in conjunction with throttling and shut-off valves. Wherever possible, all meters shall be installed in such a way to provide the manufacturer's recommended straight approach and straight piping downstream. All meters, shut-off and balancing valves shall be firmly supported from the structure or from the floor with approved supports. In-line meters shall be installed to provide full-line flow and not less than the manufacturer's recommended head at all times.

3.2 ACCEPTANCE BY OWNER

- A. Final acceptance of the equipment is contingent on satisfactory operation after installation.

****** END OF SECTION ******

SECTION 15410 - PLUMBING PIPING

PART 1 -- GENERAL

1.1 THE REQUIREMENTS

- A. Provide plumbing where shown on the drawings as specified herein, and as needed for a complete and proper installation including, but not necessarily limited to:
 - 1. City shop hydrant piping
 - 2. Bulk Water sales fill station piping
 - 3. Drain, waste, and vent systems
- B. Connections and Layout:
 - 1. It shall be the responsibility of the CONTRACTOR to make connections at terminal points of contact. The piping, ducting and equipment, etc., may be shown with excess clearances for clarity. However, the CONTRACTOR shall group pipe and arrange all ducts and equipment to present a neat and workmanlike appearance and to avoid blocking passageways.
 - 2. The plumbing drawings shall not be scaled to obtain exact dimensions. Reference shall be made to detailed drawings where dimensions are noted.
- C. Cutting and Patching:
 - 1. The CONTRACTOR shall perform all cutting and patching necessary in order to perform his work. However, special permission shall be obtained from the ENGINEER before cutting structural members or finished material. All patching shall be performed in such a manner as to leave no visible trace and to return the part affected to the condition of undisturbed work. Patching work shall be performed by men experienced, skilled and licensed for the particular type of work involved. Inferior work will not be accepted.
- D. Piping in General:
 - 1. All piping shall be installed in a neat and workmanlike manner and shall be run plumb and straight and as close as possible to ceilings and beams to insure the highest possible head room. All piping shall be run concealed where possible. Piping shall be coordinated with the ventilation and electrical work so all may be properly installed.
 - 2. All water branches shall be provided with isolating valves.
 - 3. It is deemed that the CONTRACTOR shall be responsible for the miscellaneous small piping not specifically called for in these specifications, but essential to the complete and satisfactory installation and operation of this contract.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 09900 – Painting
- B. Section 11000 – Equipment General Provisions
- C. Section 15060 – Process Piping
- D. Section 15430 – Plumbing Specialties

1.3 REFERENCE SPECIFICATIONS, CODES AND STANDARDS

- A. **General:** The work, materials and equipment covered by these specifications shall comply in all respects with the requirements of state, county and city ordinances, regulations and codes. In addition, the following published standards shall be adhered to where applicable:

American Concrete Institute
American Society of Mechanical Engineers
American Society of Testing Materials
American Institute of Electrical Engineers
American Institute of Steel Construction
American Standards Association
American Welding Society
State Plumbing Code
National Board of Fire Underwriters
National Bureau of Standards
National Electrical Code
Factory Insurance Association

1.4 PERMITS, LICENSES, FEES AND SERVICE CHARGES

- A. All permits, licenses, fees and service charges required in connection with this work shall be secured and paid for by the installing CONTRACTOR; and upon completion of the work, he shall furnish the OWNER with proof of approval from the proper local or State Department having jurisdiction.

1.5 CONTRACTOR SUBMITTALS

- A. Submit product data as specified.
- B. Manufacturer's specifications, catalog cuts, and other data to prove compliance with the specified requirements.
- C. Shop drawings and other data as required to indicate method of installation and attaching equipment, except where such details are provided on the drawings.

PART 2 -- PRODUCTS

2.1 PLUMBING PIPING AND FITTINGS

A. Service Water Piping

1. Below Grade:

- (a) 3" and larger sizes: ANSI A21.11/AWWA C111 ductile iron, bell and spigot water pipe and retaining glands and ANSI A21.10/AWWA C100 cast iron flanged fittings. Bolt on and mechanical joints with rubber gaskets.
- (b) 2" and smaller sizes: Type "K" soft annealed copper tubing (ASTM B-88). Joints will not be permitted in buried piping.

2. Above Grade:

- (a) 4" and larger sizes: Schedule 40 galvanized steel and malleable iron standard weight banded screwed fittings.
- (b) 3" and smaller sizes: Type "L" hard drawn tubing with wrought copper solder fittings. 95-5 solder. (Unless noted otherwise on Drawings)
- (c) Stainless steel piping shall be used for piping where indicated on the Drawings or in other specifications. Stainless steel system shall include pipe, valves and fittings from ½" to 4" in 304 grade of stainless steel.
- (1) Schedule 40 stainless steel piping to comply with ANSI B36.19 and with ASME B1.20.1 standard weight, stainless steel screwed fittings.

(d) Verify compatibility of materials with local water conditions.

B. Soil and Waste Piping

1. All rainwater, sewer, waste, and vent piping, unless specified or noted otherwise, shall be service weight cast iron pipe conforming to ASTM A74 or CISPI 301-69T, centrifugally cast and fittings as approved by the State Plumbing Code. Cast iron sewer pipe shall be hub and spigot soil type, free from defects and coated inside and outside with tar. Extra heavy cast iron soil pipe may also be used at CONTRACTOR'S option (unless otherwise noted on the Drawings).
2. Joints for cast iron shall be made with Tyler "Ty-Seal" fittings and gaskets or other equal fittings and gaskets approved by the State Department of Health.
3. All drainage piping shall be pitched as shown on the drawings.
4. "No Hub" soil pipe may be used for above and below ground waste and rainwater leaders if approved by the local and state inspectors.
5. The plumbing subcontractor, at his option, may use any of the materials listed below for the grade waste or vent drain piping except where such materials may be contrary to specific requirements of the Health Department.

PIPE

Galvanized Mild Steel
Schedule 40

Copper, Type "M", ASTM B-88-66A

PVC - Drain, Waste, Vent Pipe,
Schedule 40, ASTM D-2665, NSF 14-CS-272

ABS Drain Waste, Vent Pipe,
Schedule 40, ASTM D-2661, NSF 14-CS-270

FITTINGS

Cast Iron Threaded Drainage Type
(Tar Coated Inside and Out)
Use Long Sweep Fittings Where Possible

Cast Bronze Solder Type Drainage Fittings

ASTM D 2661

ASTM D-2661

2.2 UNIONS

- A. Provide unions in all piping to facilitate repairs as required by the installation and as shown.
- B. Unions shall be galvanized malleable iron for galvanized piping, ground joint on black steel pipe and ground joint solder type on copper tubing and piping.
- C. Provide dielectric unions between dissimilar pipe materials. Dielectric union shall be EPCO or equal.

2.3 SLEEVES

- A. Around all pipes passing through walls, floors, partitions, etc., there shall be provided standard weight black steel pipe sleeve two sizes larger than the bare pipe or insulated pipe. The pipe shall be centered in this sleeve and move freely through it. There shall be 1/2" space around the pipe or insulation for movement.
- B. For piping above 6" diameter, instead of using standard weight pipe sleeves, the sleeves shall be made of galvanized metal not less than #16 gauge, except in bearing walls or through foundation walls where iron pipe must be used.
- C. Sleeves shall be set in any new floor when they are constructed. The top of all sleeves shall be 2" above the floor slab.

2.4 HANGERS AND SUPPORTS

- A. Pipe Supports:
 - 1. Plastic Pipe: At least every 32 inches
 - 2. Cast Iron: At least every 5 feet; or 10 feet when 10 foot lengths pipe are used
 - 3. Copper Tubing (1-1/4" or Less): At least every six feet
 - 4. Copper Tubing (1-1/2" and Over): At least every 10 feet
- B. Piping shall be supported at intervals not to exceed 6' for pipes 1-1/2" and smaller, 8' for pipes 2" and larger. Hangers for steel pipe 3" and smaller shall be similar to Grinnell Fig. 107, as manufactured by Grinnell, Fee and Mason or equal, split ring pipe hanger, sized to fit the pipe. Hanger rods shall be solid steel rods capable of screw adjustment after erection, and shall be the maximum diameter allowed by the hanger. Pipe hangers shall be supported with clamps and concrete inserts wherever possible. Vertical pipes shall be supported at each floor with suitable pipe clamps resulting on the floor sleeve.
- C. The above hanger information indicates a general class of pipe supports required. Where situations are encountered that require other types of supports, they shall be provided to complement those specified.
- D. All hangers shall be located to properly and adequately support the piping system to eliminate pipe stresses and vibrations and yet allow pipe expansion. Spring supports and vibration dampeners shall be provided as found to be required.
- E. Where sufficient structural steel and concrete is not available for supports, auxiliary member shall be provided by the CONTRACTOR.
- F. The CONTRACTOR shall check the elevations of the hangers and shall install hangers so ample headroom will result.

2.5 VALVES

- A. **General:** The valve fixture numbers listed below are used to indicate general quality of product. Other valves of a quality acceptable to the ENGINEER may be used, after approval. Valves shall be positioned to provide proper shut-off and balance of systems where necessary.
- B. Ball Valves:
 - 1. Two (2) inch and smaller ball valves for air & water service shall be bronze construction with two piece end entry body, bronze or brass ball, Teflon or Viton stem seal, reinforced Teflon seats and thrust washer, a removable operating lever and threaded ends. Blow out proof stem design, 500 psi non-shock cold WOG and shall be drip tight in both directions. Valves shall be Apollo Series 70-100 series, Powell "Fig. 4210T", Stockham S-216, or Milwaukee BA100 Series.
- C. Stainless Steel Ball Valves
 - 1. The ball valves shall include multiple piece Chevron stem packing, full NPT thread depths and stainless steel body and tail piece materials (ASTM-A351/A744 (CF8M)).
 - 2. Each valve shall be tested for zero sect leakage.
 - 3. Manufacturer: Milwaukee 20SSOR series or equal.
- D. Solenoid Valves
 - 1. Solenoid valves shall be designed for not less than 150 psi water-working pressure. Valves for water, air, or gas service shall have brass or bronze body with screwed ends, stainless steel trim and spring, Teflon or other resilient seals with material best suited for the temperature and fluid handled. Solenoid valves in corrosive environment shall have stainless steel bodies. For chemicals and all corrosive fluids, solenoid valves with Teflon bodies and springs or other suitable materials shall be used. Unless indicated otherwise on the plans, the enclosure shall be NEMA, Type 1. All coil ratings

shall be for continuous duty. For electrical characteristics see electrical drawings. Water hammer free solenoid valves shall be used wherever the pressure differential is more than 30 psi or where the supply pressure exceeds 100 psi.

2. Manufacturers or Equal:

(a) For general duty:

- (1) Automatic Switch Co. (ASCO), Model "RED HAT"
- (2) Skinner Valve Division of Honeywell, Model "LANCER"
- (3) Magnatrol Valve Corporation

3. For corrosive fluids:

- (a) Valcor Engineering Corporation
- (b) GF Plastic Systems, Inc.

4. Water Hammer Free:

- (a) Burkett

PART 3 -- EXECUTION

3.1 PIPE JOINTS

- A. Pipe joints shall be carefully and neatly made in accordance with the requirements which follow.
- B. Threaded joints shall conform to ANSI B2.1, NPT, and shall be full and cleanly cut with sharp dies. Not more than three threads at each pipe connection shall remain exposed after installation. Ends of pipe shall be reamed, after threading and before assembly, to remove all burrs.
- C. For Compression Joints: Ends of pipe and tubing shall be cut square and all burrs shall be removed. Joint contact surfaces shall be cleaned with steel wool before assembly.
- D. For Flared Joints: Ends of annealed copper tubing shall be cut square and all burrs shall be removed. Flared ends shall be uniform without scratches or grooves.
- E. For Solder and Brazed Joints: Joints in 2-inch and larger copper tubing shall be brazed. Where solder fittings are specified for lines smaller than 2-inch, joints may be soldered or brazed at the option of the CONTRACTOR. Surfaces to be joined shall be thoroughly cleaned with flint paper and coated with a thin film of flux. At each joint, tubing shall enter to the full depth of the fitting socket.

3.2 PIPE INSTALLATION

- A. Pipe shall be installed as specified, as indicated on the drawings or, in the absence of detail piping arrangement, in a manner acceptable to the ENGINEER.
- B. Waste and Vent and Rainwater Leaders - Pitch all rainwater leaders and waste and vent piping 1/4 inch per foot where possible and 1/8 inch per foot minimum to drain to the main stacks. Provide all supports required so piping will form no sags or pockets. Appropriate lubricant shall be applied to single rubber compression gaskets before bell end is inserted. Pipe shall be thoroughly seated in No-Hub couplings and bands thoroughly tightened. Piping shall be properly supported for the type of area of installation and shall be approved by the ENGINEER.
- C. Drain Piping Through Disturbed Soil - At points where disturbed earth may be encountered along foundations, basement walls, etc., use ductile or gray cast iron pipe which shall be extended to a point beyond the backfill where undisturbed soil is located to support piping properly. Where backfill is compacted to the satisfaction of the ENGINEER, regular standard grade cast iron soil pipe may be used.

- D. Waste and Vent Piping Below Floors, Structures and Footings - All piping under floors, structures and footings shall be encased in concrete with a minimum compressive strength of 3000 psi. The length of encasement shall extend at least 24-inches beyond the floor, structure or footing exterior side.
- E. Plant and instrument air supply piping shall be provided with sectionalizing valves and valved air inlet connections as required for isolation of portions of the system for periodic testing.
- F. A union shall be provided within 2 feet of each threaded end valve unless there are other connections which will permit easy removal of the valve.
- G. Unions shall also be provided in piping at locations adjacent to devices or equipment which may require removal in the future and at locations required by the drawings or specifications.
- H. Piping shall not obstruct openings or passageways.
- I. Pipe shall be cut from measurements taken at the site and not from the drawings, and all necessary provisions shall be taken in laying out piping to provide throughout for expansion and contraction.
- J. All plant and instrument air piping shall be graded to points of drainage collection where drip legs and drain valves shall be provided.
- K. In all piping except air and gas piping, insulating fittings shall be provided to prevent contact of dissimilar metals wherever copper tubing or fittings are connected to iron or steel pipe or fittings.
- L. Prepare pipe, fittings, supports, and accessories not pre-finished, ready for finish painting, as specified in Section 09910 "Painting".
- M. Excavate and backfill in accordance with SUDAS Section 3010.

3.3 VALVE INSTALLATION

- A. Install valves with stems upright or horizontal, not inverted.
- B. Install ball valves for shut-off and to isolate equipment, part of systems, or vertical risers.

3.4 CLEANING

- A. The inside of all pipes, valves, and fittings shall be smooth, clean and free from blisters, loose mill scale, sand and dirt when erected. All lines shall be thoroughly blown before placing in service.

3.5 PIPE INSULATION

- A. The CONTRACTOR shall insulate the following type systems or special areas of piping:
 - Cold and utility water piping.
 - Buried water pipes near perimeter walls.
 - Special area denoted on the Plans and in the Specifications.
- B. Flanges and valve bodies shall not be insulated unless otherwise noted. Pipe insulation shall extend through sleeves for a continuing insulated surface. All insulation shall be applied by skilled craftsmen.
- C. Insulation shall be fiberglass with PVC jacketing as specified in Section 15250. Insulation shall be applied over clean, dry pipe with all joints butted firmly together. The longitudinal lap of the jacket shall be adhered smoothly over the insulation adhesive specified for such type of jacket.

3.6 TESTS

- A. Tests shall be made in the presence of the proper inspectors and the ENGINEER, or their authorized representative. All tests shall be made by the CONTRACTOR at his own expense and he shall furnish the ENGINEER a certificate that satisfactory tests have been made. Tests to be made are described as follows:
- B. When all work including sewer, waste and vent piping has been installed and connected up, it shall be subjected to an air pressure test of five (5) pounds per square inch and this pressure shall remain constant

for 15 minutes without the addition of air. If there are any leaks, they shall be properly repaired, and the test shall be repeated.

- C. The domestic water system shall be tested by hydrostatic pressure of 150 pounds per square inch for a period of not less than two hours.
- D. The results of all tests shall have the approval of the ENGINEER.

3.7 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

- A. The CONTRACTOR shall chlorinate all domestic water systems before using for domestic purposes.

****** END OF SECTION ******

SECTION 15430 - PLUMBING SPECIALTIES

PART 1 -- GENERAL

1.1 THE REQUIREMENT

- A. The CONTRACTOR shall furnish and install cast-iron floor drains, traps, backflow preventers as specified herein to produce, in combination with work prescribed in other sections of these specifications, a complete and operable plumbing system in accordance with the requirements of the Contract Documents.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 15410 - Plumbing Piping

PART 2 -- PRODUCTS

2.1 FLOOR DRAINS

- A. Floor drains not equipped with integral traps shall be provided with deep seal cast iron traps with cleanout lugs. Place the deep seal traps where accessible. Floor drains installed in floors laid on soil shall be provided with cleanouts near drain. All strainers and rims for floor drains shall be Nikaloy. Strainers for all floor drains shall have a free area of at least 50% greater than the cross-sectional area of the pipe outlet. Provide 30" square 40 mil flashing for each drain on drains above grade and flashing clamp device on these drains. Floor drain strainers shall be 6" diameter minimum. Floor drains with sediment buckets shall be installed where shown on the Plans.
- B. It shall be the responsibility of the Plumbing Contractor to check the exact location of all floor drains. The mechanical plans shall not be scaled for exact locations. If floor drains interfere with other equipment or traffic, they shall be relocated before finished floor is applied.
- C. Manufacturers or equal:
 - 1. Josam Series 32110
 - 2. Josam Series 30500 for Type B floor drains

2.2 TRAPS

- A. "P" traps, as required, shall be placed in all fixture drains and at other points indicated on the Drawings or required by local and state plumbing codes. They shall be extra heavy cast iron, hub and spigot pattern when connected to cast iron piping and recess screw jointed cast brass when connected to steel piping, unless otherwise noted or specified.

2.3 BACKFLOW PREVENTER

- A. The Contractor shall furnish and install reduced pressure backflow preventer where shown on the Plans. The backflow preventers shall meet the requirements of the Research Foundation for Cross-Connection Control, University of Southern California/U.S. Army Corps of Engineers/U.S. Navy/AWWA/ASSE. The backflow preventers shall be Beeco (as manufactured by Hersey Products, Inc.), Cla-Val, Zurn Wilkins, Conbraco, or equal.

2.4 HOSE BIBBS

- A. Provide 3/4" rough brass hose bibbs with integral vacuum breakers where shown on the Drawings. All hose bibbs to be set 30" above finished floor or grade unless otherwise delineated on the Plans.

PART 3 -- EXECUTION

3.1 PREPARATION

- A. The CONTRACTOR shall coordinate the work of roughing-in, wall and floor sleeves, pipe inserts, cutting of roof and floor construction to receive drains to required invert elevations. Pipes below ceilings shall be held as high as possible, without interfering with other trades.

3.2 INSTALLATION AND APPLICATION

- A. The CONTRACTOR shall install all plumbing specialties in accordance with manufacturer's printed instructions to permit intended performance and in conformance with state and local plumbing code.
- B. Cleanouts shall be extended to finished floor or wall surface. Threaded cleanout plugs shall be lubricated with mixture of graphite and linseed oil. The CONTRACTOR shall ensure sufficient clearance at cleanouts for rodding of drainage system.
- C. Exterior cleanouts shall be encased in concrete flush with pavement, or they shall be extended to above finished grade in unpaved locations.
- D. The CONTRACTOR shall install water hammer arresters, complete with isolation valves in accessible locations, or in access boxes as specified herein.

****** END OF SECTION ******

APPENDIX



CERTIFIED TESTING SERVICES, INC.

GEOTECHNICAL ENGINEERING REPORT

**4TH STREET IMPROVEMENTS
STORM LAKE, IOWA**

CTS PROJECT NO. G6488



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Iowa.

Signature: Jed A. McInerney 11-10-2021
Name: Jed A. McInerney, P.E. (date)

License Number 22686

My license renewal date is December 31, 2022.

Pages or sheets covered by this seal:

This report contains 34 pages, including this page.

CTS File Number G6488



Certified Testing Services, Inc.

419 W. 6th Street • P.O. Box 1193 • Sioux City, Iowa 51102 • Phone (712) 252-5132

November 10, 2021

Attn: Mr. Josh Pope, P.E.
Principal Engineer
Bolton & Menk, Inc.
218 11th Street SW Plaza
Spencer, Iowa 51301

Re: Geotechnical Engineering Report
4th Street Improvements
Storm Lake, Iowa
CTS Job No. G6488

Dear Mr. Pope:


Certified Testing Services, Inc. is pleased to transmit our Geotechnical Engineering Report for the referenced project. This report includes the results of field and laboratory testing, provides recommendations for the proposed construction and groundwater information.

We appreciate the opportunity to perform this Geotechnical Study and look forward to continued participation during the design and construction phases of this project. If you have any questions pertaining to this report or if we may be of further service, please contact our office.

Respectfully submitted,
CERTIFIED TESTING SERVICES, INC.


Jed A. McInerney, P.E. IA 22686

Senior Geotechnical Engineer


James A. Bertsch, P.E. IA 12121
Senior Geotechnical Engineer

JAM/JAB/jb

GEOTECHNICAL ENGINEERING REPORT

**4TH STREET IMPROVEMENTS
STORM LAKE, IOWA**

CTS PROJECT NO. G6488

PREPARED FOR

**ATTN: MR. JOSH POPE, P.E.
PRINCIPAL ENGINEER
BOLTON & MENK, INC.
218 11TH STREET SW PLAZA
SPENCER, IOWA 51301**

NOVEMBER 10, 2021

TABLE OF CONTENTS

	Page No.
PROJECT INFORMATION	1
Project Authorization	1
Project Description.....	1
Purpose and Scope of Services	1
SITE AND SUBSURFACE CONDITIONS	1
Site Location and Description.....	1
Subsurface Conditions	1
Water Level Measurements.....	3
EVALUATION AND RECOMMENDATIONS	3
Geotechnical Discussion	3
Site Preparation	4
CONSTRUCTION CONSIDERATIONS.....	5
Moisture Sensitive Soils/Weather Related Concerns.....	5
Drainage and Groundwater Considerations	5
Excavations	5
REPORT LIMITATIONS	6
Appendix	
Boring Location Plans	
Boring Logs	
Soil Classification Chart and General Notes	

PROJECT INFORMATION

Project Authorization

Certified Testing Services, Inc. has completed a subsurface exploration for the 4th Street Improvements project. Mr. Josh Pope, Principal Engineer for Bolton & Menk, Inc, authorized our work by signing out proposal on October 11, 2021. This work was performed in accordance with CTS Proposal Number 5755 dated October 6, 2019.

Project Description

Mr. James D. Leiding, P.E. of Bolton & Menk, Inc. presented preliminary project information in an email on October 5, 2021. The email included three aerial drawings that showed the location of the borings for the project. CTS understands that the project will start at the intersection of E. 4th Street and Oates Street and extend to 860 feet east of the intersection of E. 4th Street and Vilas Road in Storm Lake, Iowa. CTS also understands that the watermain will be approximately 6 feet below the final grade.

Purpose and Scope of Services

The purpose of this study was to explore the subsurface conditions at the site to determine the suitability of the existing material for bedding the proposed utilities and for trench backfill material, provide subgrade preparation recommendations for new pavement where the water line crosses the existing pavement, and provide groundwater information. Our scope of services included performing fifteen soil test borings sampled to depths of 11 feet below the existing grade in the project area. The scope of work also included select laboratory testing, and preparation of this geotechnical report. This report briefly outlines the testing procedures, presents available project information, describes the site and subsurface conditions, suitability of the existing material for bedding utilities and for utility trench backfill, provide recommendations for pavement subgrade preparation, and groundwater information. The scope of services did not include an environmental assessment of the site.

SITE AND SUBSURFACE CONDITIONS

Site Location and Description

The work was performed starting at the intersection of E. 4th Street and Oates Street and extending to 860 feet east of the intersection of E. 4th Street and Vilas Road. At the time of drilling, the surface material at the boring locations consisted of concrete, asphalt overlaying concrete pavement, asphalt pavement or grass. The surface at the boring locations was firm at the time of our site visit and the drill rig did not experience difficulty moving around the boring locations.

Subsurface Conditions

The site subsurface conditions were explored with fifteen soil test borings sampled to depths of 11 feet below the existing surface. The boring depths were chosen by CTS

personnel and the boring locations were chosen by Bolton & Menk, Inc. personnel. The approximate locations of the borings are presented in the following table and are also indicated in the "Boring Location Plans" attached in the Appendix, which are modified partial copies of the three aerial drawings provided by Mr. Leiding. Please note the boring locations were adjusted based on utilities.

BORING NUMBER	APPROXIMATE LOCATION
B1	5' E of Oates Street, 6' S of N Edge of E 4 th Street
B2	108' E of Oates Street, 6' N of S Edge of E 4 th Street
B3	12' S of 4 th Street, 7' W of E Edge of Skewis Street
B4	186' E of Skewis Street, 6' N of S Edge of E 4 th Street
B5	137' W of Flindt Road, 5' N of S Edge of E 4 th Street
B6	60' E of Flindt Road, on S Edge of E 4 th Street
B7	148' W of Vilas Road, on S Edge of E 4 th Street
B8	17' S of 4 th Street, 5' E of W Edge of E Vilas Road
B9	45' E of Vilas Road, 2' S of S Edge of E 4 th Street
B10	197' E of Vilas Road, on S Edge of E 4 th Street
B11	397' E of Vilas Road, 1' S of S Edge of E 4 th Street
B12	617' E of Vilas Road, 1' S of S Edge of E 4 th Street
B13	722' E of Vilas Road, 2' N of S Edge of E 4 th Street
B14	810' E of Vilas Road, 1' S of S Edge of E 4 th Street
B15	830' E of Vilas Road, 4' N of S Edge of E 4 th Street

The borings were advanced utilizing solid flight auger drilling methods and soil samples were routinely obtained during the drilling process. Select soil samples were later tested in the laboratory to determine the material's engineering properties for our evaluation. Soil sampling and the laboratory testing were accomplished generally in accordance with ASTM procedures.

The subsurface material encountered below the surface material generally consisted of clayey sand with gravel fill, silty sand fill, clayey sand with gravel and concrete debris fill, lean clay with sand fill, lean to fat clay fill, lean clay fill, lean clay with hydrocarbon odor fill, lean clay altered loess, lean clay with hydrocarbon odor altered loess, fat clay altered loess, lean to fat clay altered loess, lean clay with sand leached till, clayey sand glacial sand, lean clay with sand weathered glacial till, and lean clay with sand glacial till. It should be noted that a hydrocarbon odor was encountered in Borings B8 and B9 in the area of LUST 8LTS59. CTS recommends that the IDNR be contacted to determine the corrective action that may be required in this area. The borings were backfilled with on-site material after performing the work and were patched.

The boring logs included in the Appendix should be reviewed for specific information at individual boring locations. The boring logs include soil/rock descriptions, stratifications, penetration resistances, and locations of the samples and laboratory test data. The stratifications shown on the boring logs represent the conditions only at the actual boring locations. Variations may occur and should be expected between boring locations. The stratifications represent the approximate boundary between subsurface materials and the actual transition may be gradual. Water level information obtained during field operations is also shown on these boring logs. Samples that were not altered by laboratory testing will be retained for 30 days from the date of this report and then will be discarded.

Water Level Measurements

Free water was encountered in the borings, with the exception of Borings B6, B11, and B12, at depths varying from 3.6 feet to 9 feet below the top of existing grade at the time of drilling. It should be noted that with the relatively impervious material encountered in most of the borings that a long monitoring time would have been required to determine the static water level, which was beyond our scope of work. Water levels should be expected to fluctuate with changes in climatic conditions. The water level measurements presented in this report are the levels that were measured at the time of our field activities.

EVALUATIONS AND RECOMMENDATIONS

Geotechnical Discussion

CTS has several concerns for the site from a geotechnical standpoint. The first concern is for the clayey sand that was encountered below the water table to slough causing an unsafe condition if the clayey sand material is not dewatered prior to excavating into the clayey sand. The areas where this is of the greatest concern is at Borings B3, B7 and B15; however, this condition is expected to be encountered in other areas. It should also be pointed out that although the sand was encountered below the anticipated bottom of the water line in Borings B7 and B15, the removal of the material to get to the anticipated bottom of the water line could cause the water level to raise rapidly that could cause a trench excavation failure. The contractor should be aware of the high water table that was encountered in other areas and have pumps available to remove the water.

The second concern is the soft, very moist to wet subgrade material that will be encountered in at bottom of the utility trench in most of the borings, with the exception of Borings B4, B9 through B13. Based on this, CTS recommends that a minimum of 12 inches of pipe bedding material meeting the pipe manufacture's recommendations be used in soft areas. The existing material is suitable for trench backfill; however, the existing materials are very moist to wet and will need to be moisture conditioned prior to being used for backfill. Typically, material that has moisture contents higher than 6 percent over optimum are considered unsuitable due to the time, expense and large area needed to dry the material. The manufacturer's recommendations and/or SUDAS requirements should be followed for utility installation.

CTS recommends that site preparation in the pavement areas where the water line crosses the streets consist of compacting the subgrade material to meet the requirements of the "Site Preparation" section of this report. CTS further recommends that the pavement in the areas where the pavement is removed match the existing pavement thickness and be replaced in accordance with SUDAS specifications. CTS does not recommend lean to fat clay material, material mixed with lean to fat clay, fat clay material, and material mixed with fat clay be used as structural fill material within 2 feet of the bottom of the pavement due to the materials shrink/swell potential.

Site Preparation

CTS recommends that soft material, organic material, material containing frost, and unsuitable soils in the construction area be stripped from the site and either wasted or stockpiled for later use in landscaping. The site soils are suitable for use as structural fill, with the exception that the lean to fat clay material, material mixed with lean to fat clay, fat clay material, and material mixed with fat clay, as previously discussed. It should be noted, as previously discussed, that some of the material will need to be moisture conditioned, dried, prior to being used. A representative of the geotechnical engineer should determine the depth of removal at the time of construction.

After subgrade preparation and observation have been completed, fill/backfill placement may begin. Fill/backfill materials in the pavement areas should be lean clay material within 2 feet of the bottom of the pavement. Fill material should be clay material; however, granular material may be used in areas where granular materials are encountered. Fill/backfill material should be free of organic or other deleterious materials and have a maximum particle size of less than 3 inches. Fill material within 2 feet of the bottom of the pavement should have a liquid limit less than 45 and plasticity index less than 22. Close moisture control of the clay will be required in order to obtain compaction. CTS does not recommend alternating layers of clay and granular materials in that a perched water condition can occur that could affect the long-term stability of the material. Fill materials should not contain frost and new fill/backfill should not be placed on frozen ground.

Fill/backfill should be placed in maximum loose lifts of 4 inches for hand compaction equipment and 8 inches for riding compaction equipment and compacted to at least 95 percent of the material's standard Proctor maximum dry density in pavement areas and 90 percent of the material's standard Proctor maximum dry density in nonstructural areas. Lean clay should be compacted to within a minus 3 percent to a plus 3 percent of the optimum moisture content as determined in general accordance with ASTM D 698 procedures. The moisture content of the trench backfill in non-pavement areas and deeper than 2 feet below the bottom of the pavement should be at a moisture content to where the required compaction can be achieved. The moisture content of the material within 12 inches of the bottom of the pavement should be maintained between the recommended moisture contents until the pavement has been placed on the material. Materials that undergo increases or decreases in moisture content beyond the recommended moisture content ranges should be scarified, moisture conditioned and compacted to meet these moisture ranges just prior to pavement being placed. Every other lift of compacted-engineered fill should be tested by a representative of the geotechnical engineer prior to placement of subsequent lifts.

CONSTRUCTION CONSIDERATIONS

CTS should be retained to provide observation and testing of construction activities involved in this project. CTS cannot accept responsibility for conditions that deviate from those described in this report, nor for the performance of the subgrade if not engaged to also provide construction observation and testing for this project.

Moisture Sensitive Soils and Weather Related Concerns

The fine-grained soils encountered at this site will be sensitive to disturbances caused by construction activity and to changes in moisture content. During wet weather periods, increases in the moisture content of the soil can cause significant reduction in the soil strength and support capabilities. In addition, soils that become wet may be slow to dry and thus significantly retard the progress of grading and compaction activities. It will, therefore, be advantageous to perform the construction activities during dry weather.

Drainage and Groundwater Considerations

Water should not be allowed to collect on prepared subgrade of the construction area either during or after construction. Undercut or excavated areas should be sloped to facilitate removal of collected rainwater, groundwater, or surface runoff. Positive site drainage should be provided to reduce infiltration of surface water into the existing material.

Free groundwater was encountered at the time of the field exploration and will affect construction of the project. The contractor should be prepared to handle water. Water should be removed from excavations by pumping; however, groundwater encountered in clayey sand material may require well points.

Excavations

In Federal Register, Volume 54, Number 209 (October 1989), the United States Department of Labor, Occupational Safety and Health Administration (OSHA) amended its "Construction Standards for Excavations, 29 CFR, part 1926, Subpart P". This document was issued to better enhance the safety of workers entering trenches or excavations. It is mandated by this federal regulation that excavations, whether they be utility trenches, basement excavation or footing excavations, be constructed in accordance with the new OSHA guidelines. It is our understanding that these regulations are being strictly enforced and if they are not closely followed, the owner and the contractor could be liable for substantial penalties.

The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of both the excavation sides and bottom. The contractor's "responsible person", as defined in 29 CFR Part 1926, should evaluate the soil exposed in the excavations as part of the contractor's safety procedures. In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in local, state, and federal safety regulations. The site clay material is Class B material and the site clayey sand material is a Class C material in accordance with OSHA criteria.

We are providing this information solely as a service to our client. CTS does not assume responsibility for construction site safety or the contractor's or other party's compliance with local, state, and federal safety or other regulations.

REPORT LIMITATIONS

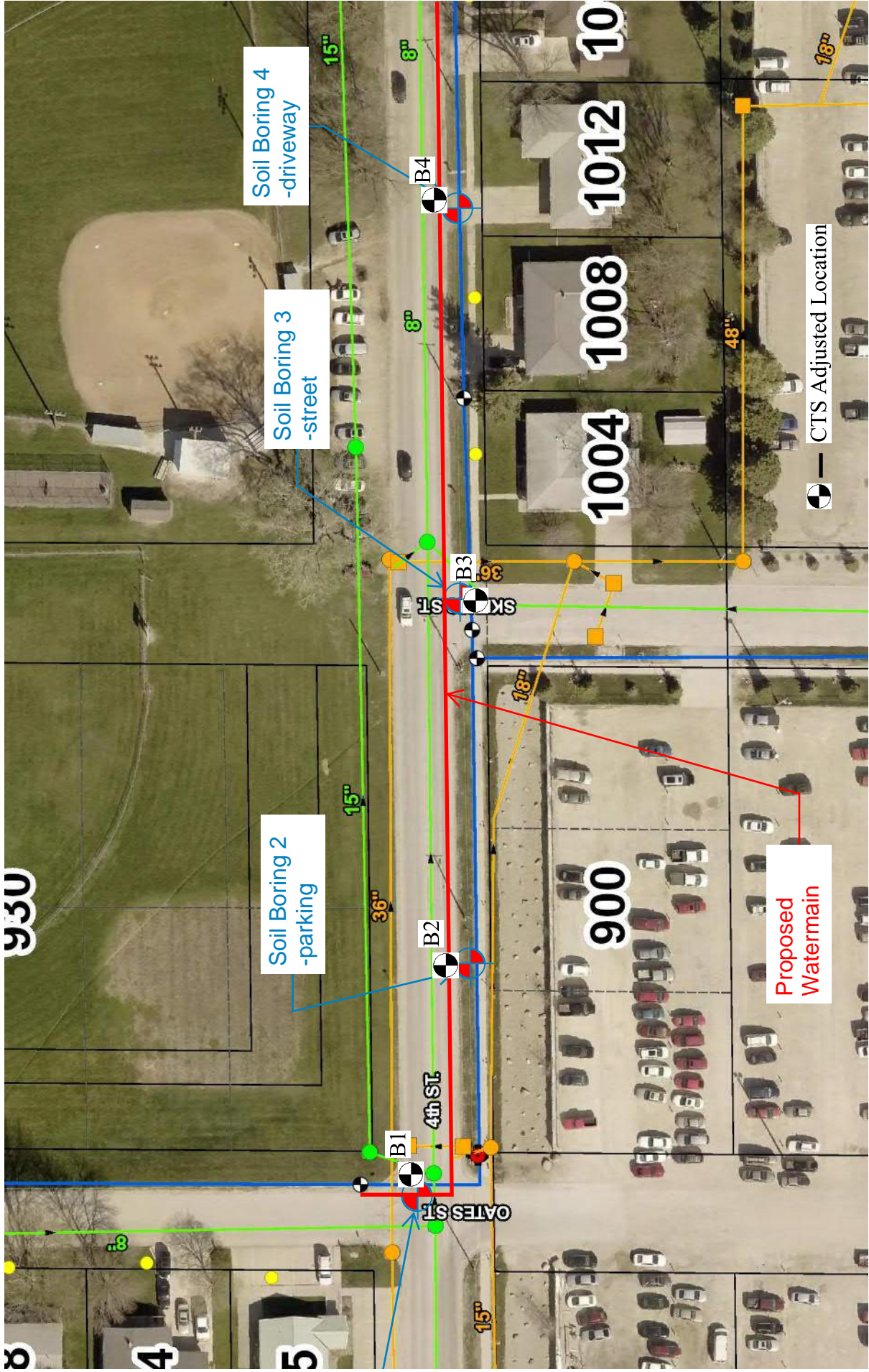
The recommendations submitted are based on the available subsurface information obtained by CTS and design details furnished by Mr. James D. Leiding, P.E. of Bolton & Menk, Inc. If deviations from the subsurface conditions noted in this report are encountered during construction, CTS should be notified immediately to determine if changes in the recommendations are required. If CTS is not retained to perform these functions, CTS will not be responsible for the impact of those conditions on the project.

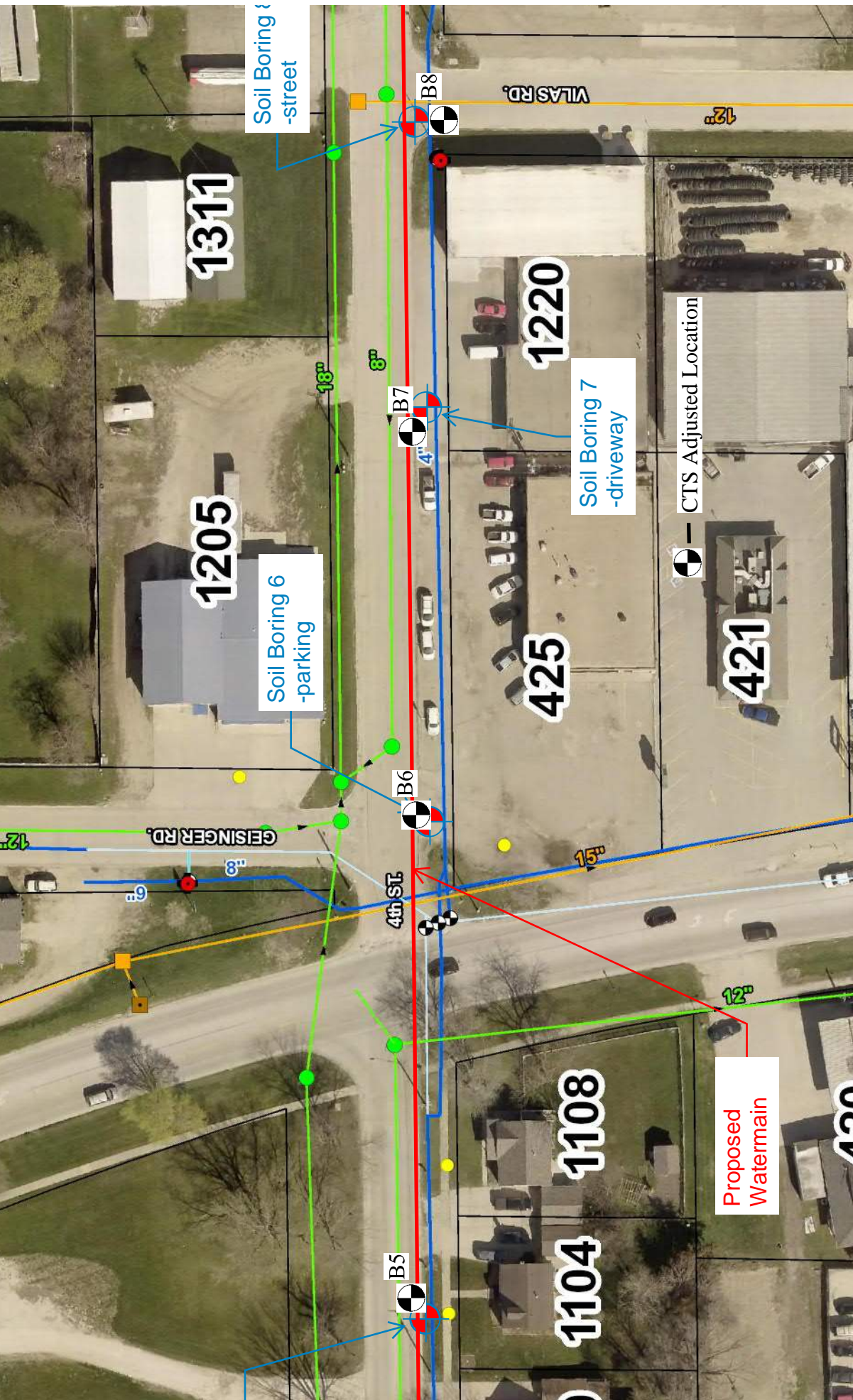
The geotechnical engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed.

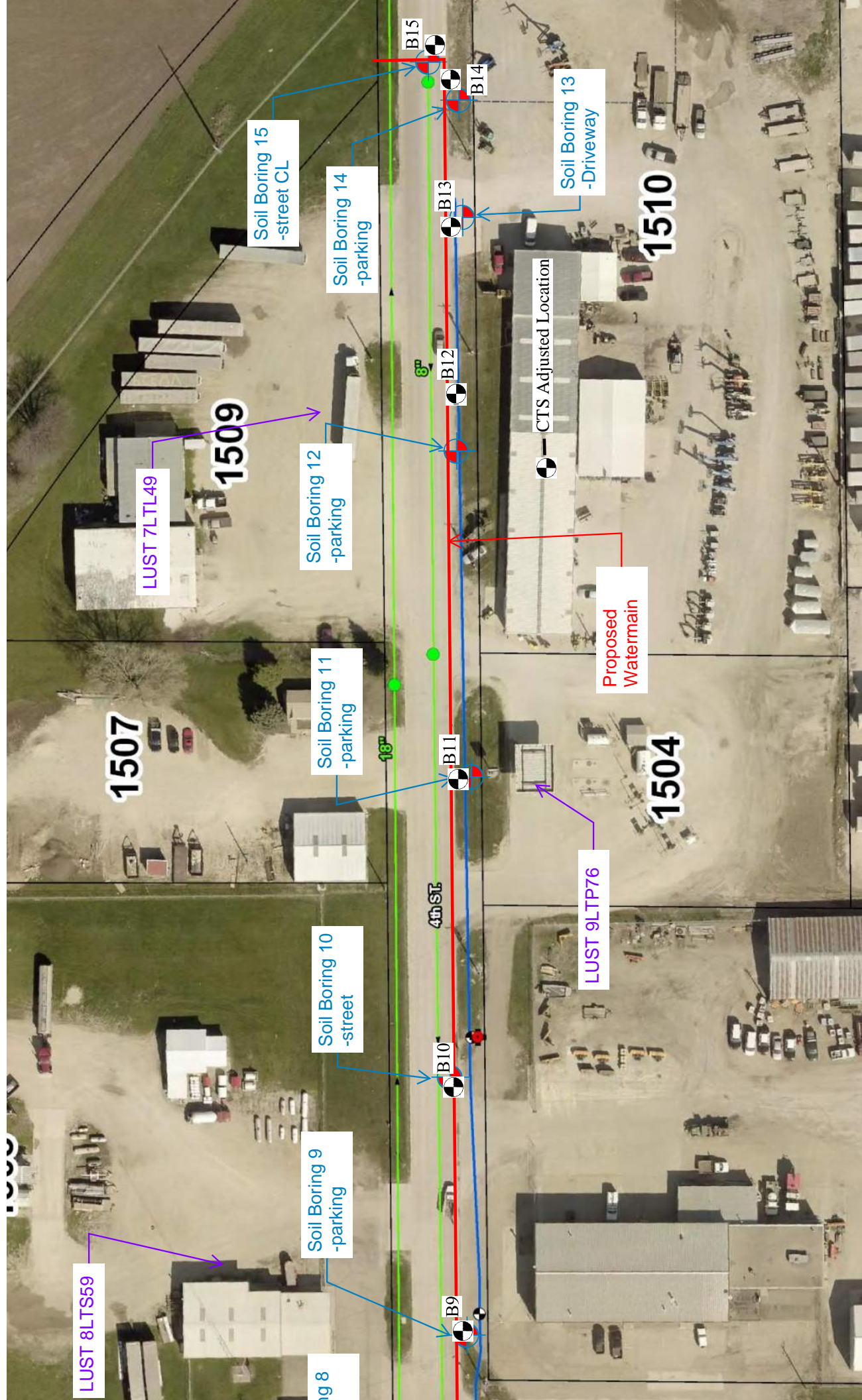
After the plans and specifications are more complete, the geotechnical engineer should be retained and provided the opportunity to review the final design plans and specifications to check that our engineering recommendations have been properly incorporated into the design documents. At that time, it may be necessary to submit supplementary recommendations. This report has been prepared for the exclusive use of the Bolton & Menk, Inc. and City of Storm Lake and their consultants for the specific application to the 4th Street Improvements project in Storm Lake, Iowa.

APPENDIX

BORING LOCATION PLANS







BORING LOGS







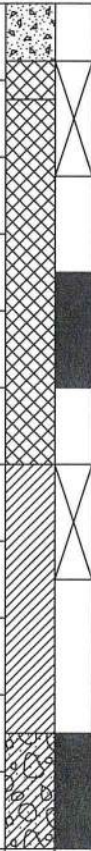


LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **11/1/21**
 Date Completed: **11/1/21**

Boring No.: **B-1**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.:

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
			SOIL DESCRIPTION													
			9-Inch Concrete Layer													
			FILL, Clayey Sand with Gravel, Light Brownish Gray, Moist				7-3-3 N= 6	15								
			FILL, Lean Clay with Sand, Dark Brown, Gray and Yellow Brown, Moist													
5			(Gravel Layer)					15	113	86	1.00					
			LEAN CLAY WITH SAND, Yellow Brown, Wet, Medium, Leached Till			CL	3-2-3 N= 5	20								
10			LEAN CLAY WITH SAND, Yellow Brown and Gray, Wet, Weathered Glacial Till			CL		18	112	100	1.00					
			END OF BORING AT 11 FEET FREE WATER WAS NOT ENCOUNTERED AT TIME OF DRILLING													
















LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **10/29/21**
 Date Completed: **10/29/21**

Boring No.: **B-2**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.: _____

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
			SOIL DESCRIPTION													
			2-Inch Asphalt Layer													
			7-Inch Concrete Layer													
			FILL, Lean Clay with Sand, Dark Gray, Dark Brown and Yellow Brown, Very Moist, Oxidized					23	103	99	3.50					
5			LEAN CLAY, Medium Gray, Very Moist to Wet, Medium, Altered Loess			CL	2-2-3 N= 5	19								
																
			LEAN CLAY WITH SAND, Yellow Brown and Gray, Wet, Medium, Weathered Glacial Till			CL		15	119	100	1.50					
10							2-3-3 N= 6	17								
			END OF BORING AT 11 FEET FREE WATER WAS ENCOUNTERED AT 6 FEET AT TIME OF DRILLING													














LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **10/29/21**
 Date Completed: **10/29/21**

Boring No.: **B-3**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.: _____

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
			SOIL DESCRIPTION													
			8-Inch Concrete Layer													
			FILL, Lean Clay with Sand, Dark Brown, Gray and Yellow Brown, Moist, Oxidized				2-4-5 N= 9	18								
5			CLAYEY SAND, Yellow Brown and Gray, Moist, Glacial Sand			SC		6	123	49	4.50					
			LEAN CLAY, Yellow Brown, Very Moist to Wet, Soft to Stiff, Altered Loess			CL	3-1-2 N= 3	19								
10			(Silt and Sand Lenses)				3-3-6 N= 9	21								
			END OF BORING AT 11 FEET FREE WATER WAS ENCOUNTERED AT 7 FEET AT TIME OF DRILLING													















LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **10/29/21**
 Date Completed: **10/29/21**

Boring No.: **B-4**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.: _____

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
			SOIL DESCRIPTION													
			3.5-Inch Asphalt Layer													
			6-Inch Concrete Layer													
			LEAN CLAY, Black, Very Moist to Wet, Medium, Altered Loess			CL		25	95	89	2.50					
5			(Light Gray and Yellow Brown, Calcium Stringers)				2-3-3 N= 6	19								
			LEAN CLAY WITH SAND, Yellow Brown and Gray, Very Moist, Weathered Glacial Till			CL		17	114	94	1.50					
10			END OF BORING AT 11 FEET				2-2-4 N= 6	20								
			FREE WATER WAS ENCOUNTERED AT 5.8 FEET AT TIME OF DRILLING													









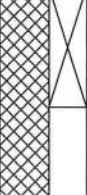

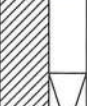



LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **10/29/21**
 Date Completed: **10/29/21**

Boring No.: **B-5**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.: _____

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Penetrometer (TSF) Hand	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
			2.75-Inch Asphalt Layer													
			6-Inch Concrete Layer													
			FILL, Lean Clay with Sand, Yellow Brown, Moist				5-6-6 N= 12	12								
5			LEAN CLAY, Black, Very Moist to Wet, Medium, Altered Loess			CL		30	89	94	1.50					
			(Light Gray)				2-2-3 N= 5	26								
10			(Sand Lenses)					19	111	100	1.00					
	END OF BORING AT 11 FEET FREE WATER WAS ENCOUNTERED AT 9 FEET AT TIME OF DRILLING															























LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **10/29/21**
 Date Completed: **10/29/21**

Boring No.: **B-6**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.: _____

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
SOIL DESCRIPTION																
			6-Inch Concrete Layer													
			FILL, Lean to Fat Clay, Dark Brown, Light Gray and Medium Brown, Very Moist					28	95	99	1.50					
																
5			FILL, Lean Clay with Sand, Dark Brown, Gray and Yellow Brown, Very Moist				1-2-2 N= 4	31								
			LEAN CLAY, Black to Brownish Gray, Very Moist, Altered Loess			CL										
			LEAN CLAY WITH SAND, Yellow Brown and Gray, Wet, Stiff, Weathered Glacial Till			CL		18	111	100	2.00					
10																
																
																
			END OF BORING AT 11 FEET FREE WATER WAS NOT ENCOUNTERED AT TIME OF DRILLING													















LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **10/29/21**
 Date Completed: **10/29/21**

Boring No.: **B-7**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.:

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
			2-Inch Asphalt Layer													
			FILL, Clayey Sand with Gravel, Light Brownish Gray, Moist					2-2-2 N= 4	17							
			FILL, Lean Clay with Sand, Dark Brown, Gray and Yellow Brown, Moist													
5			LEAN CLAY, Dark Gray Brown to Light Gray Brown, Very Moist, Altered Loess				CL		26	96	93	2.00				
			CLAYEY SAND, Grayish Yellow Brown, Wet, Medium Dense, Glacial Sand				SC	6-9-10 N= 19								
10			(Clay Lenses)					3-5-7 N= 12								
			END OF BORING AT 11 FEET FREE WATER WAS ENCOUNTERED AT 6.1 FEET AT TIME OF DRILLING													
















LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **11/1/21**
 Date Completed: **11/1/21**

Boring No.: **B-8**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.: _____

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
			SOIL DESCRIPTION													
			8-Inch Concrete Layer													
			FILL, Clayey Sand with Gravel, Light Brownish Gray, Moist													
			FILL, Lean Clay, Dark Brown, Dark Gray Brown and Olive Gray, Very Moist to Wet, Hydrocarbon Odor					27	92	89	4.50					
5			 (Hydrocarbon Odor)				1-1-1 N= 2	30								
			LEAN CLAY WITH SAND, Yellow Brown, Wet, Medium, Leached Till			CL	2-2-3 N= 5	19								
10							2-2-3 N= 5	17								
			END OF BORING AT 11 FEET FREE WATER WAS ENCOUNTERED AT 4 FEET AT TIME OF DRILLING													



LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **11/1/21**
 Date Completed: **11/1/21**

Boring No.: **B-9**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.:

Depth in Feet	Graphic Log	Sample Type	SOIL DESCRIPTION	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			<div> <div>Shelby Tube</div> <div>Modified California</div> </div> <div> <div>Standard Split Spoon</div> <div>Grab Sample</div> </div> <div> <div>Water Level ATD</div> <div>Water Level After 24-Hours</div> </div>											
			6-Inch Root Zone											
			FILL, Lean Clay with Sand, Medium Brown, Moist											
			FAT CLAY, Black, Moist, Stiff, Altered Loess	CH	4-2-5 N= 7	18					61	22	39	
5			LEAN CLAY, Light Brown, Gray Brown and Olive Gray, Moist to Wet, Oxidized, Hydrocarbon Odor, Altered Loess	CL		19	103	86	1.00					
			LEAN CLAY WITH SAND, Yellow Brown and Gray, Very Moist, Stiff, Weathered Glacial Till	CL	3-3-5 N= 8	18								
10			(Sand Lense, Strong Hydrocarbon Odor)			19	110	96	2.00					
			END OF BORING AT 5 FEET FREE WATER WAS ENCOUNTERED AT 5 FEET AT TIME OF DRILLING											




















LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **10/29/21**
 Date Completed: **10/29/21**

Boring No.: **B-10**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.:

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
SOIL DESCRIPTION																
			6.5-Inch Asphalt Layer													
			FILL, Silty Sand, Light Brownish Gray, Moist			CL-CH	3-6-7 N= 13	27								
			LEAN TO FAT CLAY, Black to Dark Brownish Gray, Moist, Altered Loess													
			LEAN CLAY WITH SAND, Yellow Brown, Very Moist to Wet, Stiff, Oxidized, Weathered Glacial Till			CL	3-4-6 N= 10	18								
5			LEAN CLAY WITH SAND, Yellow Brown and Gray, Very Moist, Very Stiff, Glacial Till			CL		16	117	99	3.50					
																
10							3-6-8 N= 14	18								
			END OF BORING AT 11 FEET FREE WATER WAS ENCOUNTERED AT 3.6 FEET AT TIME OF DRILLING													










LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **11/1/21**
 Date Completed: **11/1/21**

Boring No.: **B-11**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.: _____

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
			SOIL DESCRIPTION													
			6-Inch Root Zone													
			FILL, Lean Clay with Sand, Dark Brown and Yellow Brown, Moist													
			LEAN CLAY WITH SAND, Yellow Brown and Gray, Very Moist, Weathered Glacial Till	CL	2-3-3 N= 6	16										
5			LEAN CLAY WITH SAND, Yellow Brown and Gray, Very Moist to Wet, Very Stiff, Oxidized, Glacial Till	CL		17	114	98	2.00							
					4-5-8 N= 13	16										
10						17	115	100	4.50							
			END OF BORING AT 11 FEET FREE WATER WAS NOT ENCOUNTERED AT TIME OF DRILLING													









LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **10/29/21**
 Date Completed: **10/29/21**

Boring No.: **B-12**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.: _____

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
			6-Inch Root Zone													
			FILL, Clayey Sand with Gravel and Concrete Debris, Light Brownish Gray, Moist													
			LEAN CLAY WITH SAND, Yellow Brown and Gray, Very Moist, Stiff, Glacial Till			CL	3-3-5 N= 8	15								
5							3-3-5 N= 8	17								
			(Oxidized)					17	114	98	4.50					
10							4-5-7 N= 12	17								
			END OF BORING AT 11 FEET FREE WATER WAS NOT ENCOUNTERED AT TIME OF DRILLING													










LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **11/1/21**
 Date Completed: **11/1/21**

Boring No.: **B-13**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.: _____

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
			5-Inch Concrete Layer													
			FILL, Lean Clay, Light Brown, Moist				3-3-5 N= 8	19								
			LEAN CLAY WITH SAND, Yellow Brown, Moist to Wet, Leached Till			CL										
5								20	109	100	2.00					
							5-7-8 N= 15	21								
10							8-4-6 N= 10	22								
			END OF BORING AT 11 FEET FREE WATER WAS ENCOUNTERED AT 6.3 FEET AT TIME OF DRILLING													



LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **11/1/21**
 Date Completed: **11/1/21**

Boring No.: **B-14**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.: _____

Depth in Feet	Graphic Log	Sample Type	<div><div></div> Shelby Tube</div>	<div><div></div> Standard Split Spoon</div>	<div><div></div> Water Level ATD</div>	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			<div><div></div> Modified California</div>	<div><div></div> Grab Sample</div>	<div><div></div> Water Level After 24-Hours</div>											
			6-Inch Root Zone													
			FILL, Lean Clay, Dark Brown, Black, Moist, Blocky													
			LEAN CLAY, Dark Brown, Moist to Very Moist, Medium, Altered Loess			CL		22	94	76	2.50					
5			(Light Gray Brown, Sand Lense)				2-2-2 N= 4	25								
			LEAN CLAY WITH SAND, Yellow Brown and Gray, Very Moist to Wet, Stiff, Weathered Glacial Till			CL		18	113	99	1.00					
10							2-4-5 N= 9	18								
			END OF BORING AT 11 FEET FREE WATER WAS ENCOUNTERED AT 6 FEET AT TIME OF DRILLING													









LOG OF EXPLORATORY BORING

Sheet 1 of 1

Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **11/1/21**
 Date Completed: **11/1/21**

Boring No.: **B-15**
 Boring Location: **Storm Lake, IA**
 Drill Type: **Flight Auger**
 Ground Elev.:

Depth in Feet	Graphic Log	Sample Type	 Shelby Tube	 Standard Split Spoon	 Water Level ATD	USCS	Blow Counts SPT (N) Blows/Foot	Moisture Content, %	Dry Density (PCF)	% Saturation	Hand Penetrometer (TSF)	Unconfined Comp. Strength (TSF)	Liquid Limit %	Plastic Limit %	Plasticity Index %	Cone Penetrometer (Blows/ 1-3/4")
			 Modified California	 Grab Sample	 Water Level After 24-Hours											
			7-Inch Concrete Layer													
			FILL, Light Gray Brown, Moist, Crushed Limestone				7-4-4 N= 8	16								
			FILL, Lean Clay with Sand, Dark Brown, Gray and Yellow Brown, Moist													
5			LEAN CLAY WITH SAND, Yellow Brown, Very Moist, Leached Till			CL		19	109	97	1.50					
			CLAYEY SAND, Yellow Brown, Wet, Loose, Glacial Sand			SC	6-4-2 N= 6	16								
10			LEAN CLAY WITH SAND, Yellow Brown and Gray, Very Moist, Stiff, Weathered Glacial Till			CL	2-3-4 N= 7	19								
			END OF BORING AT 11 FEET FREE WATER WAS ENCOUNTERED AT 6 FEET AT TIME OF DRILLING													

SOIL CLASSIFICATION CHART AND GENERAL NOTES

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
		(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
		(APPRECIABLE AMOUNT OF FINES)		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

GENERAL NOTES

SAMPLING SYMBOLS:

✕	STANDARD PENETRATION TEST - 1 3/8" I.D., 2" O.D.
■	SHELBY THIN-WALLED TUBE - 3" O.D. UNDISTURBED SAMPLE
✋	GRAB SAMPLE
■	ROCK CORE
⚡	AUGER SAMPLE
○	NO RECOVERY

WATER LEVEL MEASUREMENT SYMBOLS:

∇	WATER LEVEL AT TIME OF DRILLING
▼	WATER LEVEL AFTER 7 DAYS

CONSISTENCY OF FINE-GRAINED SOILS	
UNCONFINED COMPRESSIVE STRENGTH, QU, PSF	CONSISTENCY
< 500	VERY SOFT
500 - 1,000	SOFT
1,001 - 2,000	MEDIUM
2,001 - 4,000	STIFF
4,001 - 8,000	VERY STIFF
8,001 - 16,000	HARD
> 16,000	VERY HARD

RELATIVE DENSITY OF COARSE GRAINED SOILS	
N-BLOWS/FT.	RELATIVE DENSITY
0 - 3	VERY LOOSE
4 - 9	LOOSE
10 - 29	MEDIUM DENSE
30 - 49	DENSE
50 - 80	VERY DENSE
80 +	EXTREMELY DENSE

RELATIVE PROPORTIONS OF SAND AND GRAVEL	
DESCRIPTIVE TERM(S) (OF COMPONENTS ALSO PRESENT IN SAMPLE)	PERCENT OF DRY WEIGHT
WITH	15 - 29
MODIFIER	> 30

GRAIN SIZE TERMINOLOGY	
MAJOR COMPONENT OF SAMPLE	SIZE RANGE
BOULDERS	OVER 12 IN. (300MM)
COBBLES	12 IN. TO 3 IN. (300 MM TO 75 MM)
GRAVEL	3 IN. TO #4 SIEVE (75MM TO 4.75MM)
SAND	#4 TO #200 SIEVE (4.75MM TO 0.075 MM)
SILT OR CLAY	PASSING #200 SIEVE (0.075MM)

RELATIVE PROPORTIONS OF FINES	
DESCRIPTIVE TERM(S) (OF COMPONENTS ALSO PRESENT IN SAMPLE)	PERCENT OF DRY WEIGHT
WITH	15 - 29
MODIFIER	> 30



CITY OF STORM LAKE, IOWA

CONSTRUCTION PLANS FOR

2022 4TH STREET WATERMAIN IMPROVEMENTS

GOVERNING SPECIFICATIONS

THE 2022 EDITION OF THE "IOWA STATEWIDE URBAN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS" AND CITY OF STORM LAKE SPECIFICATIONS.

MUTCD 2009 AS ADOPTED BY IOWA DEPARTMENT OF TRANSPORTATION.

ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITHIN THE CONSTRUCTION OF THIS PROJECT.



NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY IOWA ONE CALL 1-800-292-8989 OR 811

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

RESOURCE LIST

CITY OF STORM LAKE

City Hall
620 Erie Street
P.O. Box 1086
Storm Lake, IA 50588

City Manager:
Keri Navratil
Assistant City Manager:
David Derragon

Mayor: Mike Porsch

City Council Members:
Maggie Martinez
Matt Ricklefs
Kevin McKinney
Maria Ramos
Tyson Rice

Infrastructure Engineer:
Josh Pope P.E.
Bolton & Menk, Inc.
218 11th Street SW Plaza
712-580-5075

Public Services Supervisor:
Scott Bonebrake

UTILITIES

GAS
Alliant Energy
Storm Lake, IA 50588
1-800-822-4348

TELEPHONE/CABLE
Long Lines
118 E. 5th St.
Storm Lake, IA 50588
712-213-7425

Mediacom
720 Lake Ave.
Storm Lake, IA 50588
855-633-4226

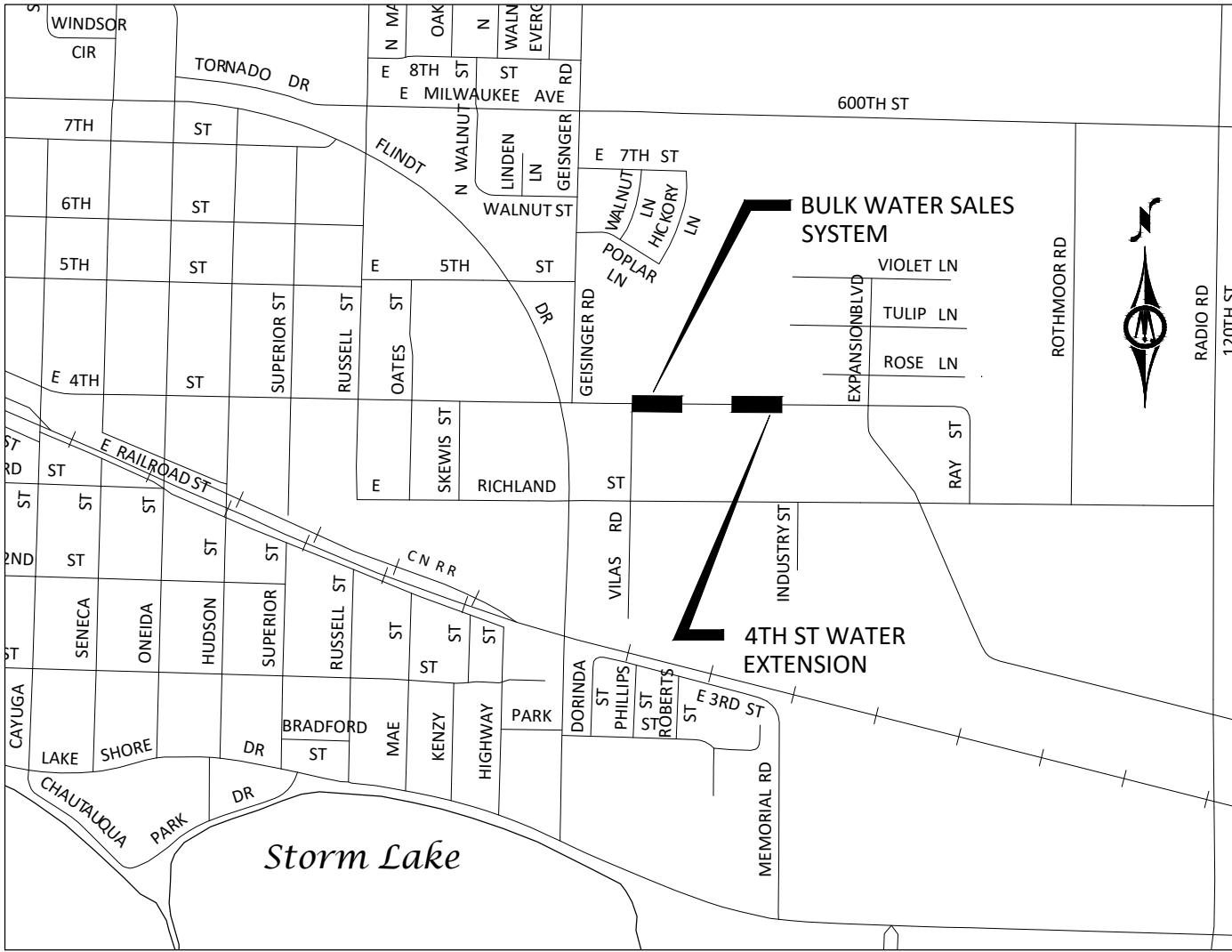
Century Link
426 Lake Ave.
Storm Lake, IA 50588
1-800-261-1691

LOCAL
City of Storm Lake
433 Vilas Rd.
Storm Lake, IA 50588
712-732-8029

ELECTRIC
Mid American
1016 Vestal Street
Storm Lake, IA 50588
888-427-5632

CONSTRUCTION OF APPROXIMATELY 180 FEET
OF WATERMAIN, APPURTENANCES, BULK WATER SALES SYSTEM
AND 3" WATER SERVICE AND CITY SHOP HYDRANT

FEBRUARY, 2022



MAP OF PORTIONS OF THE
CITY OF STORM LAKE
BUENA VISTA COUNTY, IA

PROJECT DATUM:
IOWA REGIONAL COORDINATE SYSTEM NO. 4

RECORD DRAWING INFORMATION	
OBSERVER:	
CONTRACTOR:	
DATE:	

DESIGNED	REV	DESCRIPTION	DATE
KMA	A	60% PLAN	12/10/21
KMA	B	90% PLAN	1/17/22
JDL	O	BID	02/15/22
CLIENT PROJ. NO.		OP1125220	

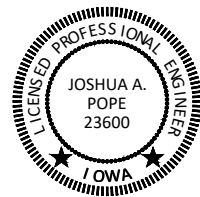
SHEET NUMBER

A.01 / A.02
B.01-B.03
C.01-C.02
G.01
J.01
M.01 - M.02
R.01

SHEET TITLE

TITLE SHEET/LEGEND
TYPICAL SECTIONS AND DETAILS
QUANTITIES AND ESTIMATE REFERENCE INFORMATION
REFERENCES & BENCHMARKS
STAGING & TRAFFIC CONTROL
WATERMAIN PLAN & PROFILE, BULK WATER SALES DISPENSER
REMOVALS

THIS PLAN SET CONTAINS 12 SHEETS.



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

JOSHUA A. POPE, P.E.

REG. NO. 23600 DATE: 02/15/2022

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023

PAGES OR SHEETS COVERED BY THIS SEAL:

ALL SHEETS



218 11TH STREET SW PLAZA
SPENCER, IOWA 51301
Phone: (712) 580-5075
Email: Spencer@bolton-menk.com
www.bolton-menk.com

CITY OF STORM LAKE, IOWA
2022 4TH STREET WATERMAIN IMPROVEMENTS

TITLE SHEET

SHEET

A.01

EXISTING TOPOGRAPHIC SYMBOLS

	ACCESS GRATE		SATELLITE DISH
	AIR CONDITION UNIT		SIGN TRAFFIC
	ANTENNA		SIGNAL CONTROL CABINET
	AUTO SPRINKLER CONNECTION		SOIL BORING
	BARRICADE PERMANENT		SIREN
	BASKETBALL POST		TELEPHONE BOOTH
	BENCH		TILE INLET
	BIRD FEEDER		TILE OUTLET
	BOLLARD		TILE RISER
	BUSH		TRANSFORMER-ELECTRIC
	CATCH BASIN RECTANGULAR CASTING		TREE-CONIFEROUS
	CATCH BASIN CIRCULAR CASTING		TREE-DEAD
	CURB STOP		TREE-DECIDUOUS
	CLEAN OUT		TREE STUMP
	CULVERT END		TRAFFIC ARM BARRIER
	DRINKING FOUNTAIN		TRAFFIC SIGNAL
	DOWN SPOUT		TRASH CAN
	FILL PIPE		UTILITY MARKER
	FIRE HYDRANT		VALVE
	FLAG POLE		VALVE POST INDICATOR
	FLARED END / APRON		VALVE VAULT
	FUEL PUMP		VAULT
	GRILL		VENT PIPE
	GUY WIRE ANCHOR		WATER SPIGOT
	HANDHOLE		WELL
	HANDICAP SPACE		WETLAND DELINEATED MARKER
	IRRIGATION SPRINKLER HEAD		WETLAND
	IRRIGATION VALVE BOX		WET WELL
	LIFT STATION CONTROL PANEL		YARD HYDRANT
	LIFT STATION		

PROPOSED TOPOGRAPHIC SYMBOLS

	CLEANOUT
	MANHOLE
	LIFT STATION
	STORM SEWER CIRCULAR CASTING
	STORM SEWER RECTANGULAR CASTING
	STORM SEWER FLARED END / APRON
	STORM SEWER OUTLET STRUCTURE
	STORM SEWER OVERFLOW STRUCTURE
	CURB BOX
	FIRE HYDRANT
	WATER VALVE
	WATER REDUCER
	WATER BEND
	WATER TEE
	WATER CROSS
	WATER SLEEVE
	WATER CAP / PLUG
	RIP RAP
	DRAINAGE FLOW
	TRAFFIC SIGNS
	LIGHT POLE

SURVEY SYMBOLS

	BENCH MARK LOCATION
	CONTROL POINT
	MONUMENT IRON FOUND
	CAST IRON MONUMENT

EXISTING TOPOGRAPHIC LINES

	RETAINING WALL
	FENCE
	FENCE-DECORATIVE
	GUARD RAIL
	TREE LINE
	BUSH LINE

SURVEY LINES

	CONTROLLED ACCESS BOUNDARY
	CENTERLINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	EXISTING LOT LINE
	PROPOSED LOT LINE
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	SETBACK LINE
	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	TEMPORARY EASEMENT

EXISTING UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE

PROPOSED UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE
	PIPE CASING

GRADING INFORMATION

	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	PROPOSED GRADING LIMITS / SLOPE LIMITS
	PROPOSED SPOT ELEVATION
	RISE:RUN (SLOPE)

HATCH PATTERNS

	HMA PAVEMENT		SIDEWALK		PCC PAVEMENT
	DRIVEWAY		GRAVEL		

EXISTING PRIVATE UTILITY LINES

NOTE:
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	UNDERGROUND FIBER OPTIC
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	UNDERGROUND COMMUNICATION
	OVERHEAD ELECTRIC
	OVERHEAD COMMUNICATION
	OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL OTHER THAN D:

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
EXAMPLE: UNDERGROUND GAS, QUALITY LEVEL A
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-02.

UTILITY QUALITY LEVELS:

LEVEL D - INFORMATION COMES SOLELY FROM EXISTING UTILITY RECORDS.

LEVEL C - SURVEYING ABOVE GROUND UTILITY FACILITIES, SUCH AS MANHOLES, VALVE BOXES, ETC; AND CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS.

LEVEL B - THE USE OF SURFACE GEOPHYSICAL TECHNIQUES TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF UNDERGROUND UTILITIES.

LEVEL A - THE USE OF NONDESTRUCTIVE DIGGING EQUIPMENT AT HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GV	GATE VALVE	RT	RIGHT
ADJ	ADJUST	HDPE	HIGH DENSITY POLYETHYLENE	SAN	SANITARY SEWER
ALT	ALTERNATE	HH	HANDHOLE	SCH	SCHEDULE
B-B	BACK TO BACK	HMA	HOT MIX ASPHALT	SERV	SERVICE
BLDG	BUILDING	HP	HIGH POINT	SHLD	SHOULDER
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STA	STATION
BR	BEGIN RADIUS	HYD	HYDRANT	STD	STANDARD
BV	BUTTERFLY VALVE	I	INVERT	STM	STORM SEWER
CB	CATCH BASIN	K	CURVE COEFFICIENT	TC	TOP OF CURB
C&G	CURB AND GUTTER	L	LENGTH	TE	TEMPORARY EASEMENT
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TEMP	TEMPORARY
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TNH	TOP NUT HYDRANT
CL	CENTER LINE	LT	LEFT	TP	TOP OF PIPE
CL	CLASS	MH	MANHOLE	TYP	TYPICAL
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VCP	VITRIFIED CLAY PIPE
C.O.	CHANGE ORDER	MPW	MUSCATINE POWER & WATER	VERT	VERTICAL
COMM	COMMUNICATION	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
CSP	CORRUGATED STEEL PIPE	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CLVT	CULVERT	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
DIA	DIAMETER	NTS	NOT TO SCALE	WM	WATERMAIN
DIP	DUCTILE IRON PIPE	NWL	NORMAL WATER LEVEL	WS	WATER SERVICE
DWY	DRIVEWAY	OHW	ORDINARY HIGH WATER LEVEL		
E	EXTERNAL CURVE DISTANCE	PC	POINT OF CURVE		
ESMT	EASEMENT	PCC	PORTLAND CEMENT CONCRETE	AC	ACRES
ELEC	ELECTRIC	PE	PERMANENT EASEMENT	CF	CUBIC FEET
ELEV/EL	ELEVATION	PED	PEDESTRIAN, PEDESTAL	CV	COMPACTED VOLUME
EOF	EMERGENCY OVERFLOW	PERF	PERFORATED PIPE	CY	CUBIC YARD
ER	END RADIUS	PERM	PERMANENT	EA	EACH
EX	EXISTING	PI	POINT OF INTERSECTION	EV	EXCAVATED VOLUME
FES	FLARED END SECTION	PL	PROPERTY LINE	LB	POUND
F-F	FACE TO FACE	PRC	POINT OF REVERSE CURVE	LF	LINEAR FEET
FF	FINISHED FLOOR	PT	POINT OF TANGENT	LS	LUMP SUM
F&I	FURNISH AND INSTALL	PVC	POLYVINYL CHLORIDE PIPE	LV	LOOSE VOLUME
FM	FORCEMAIN	PVMT	PAVEMENT	SF	SQUARE FEET
FO	FIBER OPTIC	R	RADIUS	SV	STOCKPILE VOLUME
F.O.	FIELD ORDER	RCP	REINFORCED CONCRETE PIPE	SY	SQUARE YARD
GRAN	GRANULAR	RET	RETAINING		
GRAV	GRAVEL	R/W	RIGHT-OF-WAY		
GU	GUTTER	RSC	RIGID STEEL CONDUIT		



**BOLTON
& MENK**

218 11TH STREET SW PLAZA
SPENCER, IOWA 51301
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Email: Spencer@bolton-menk.com
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KMA	B	90% PLAN	1/17/22
JDL	O	BID	02/15/22
CLIENT PROJ. NO.			
OP1125220			

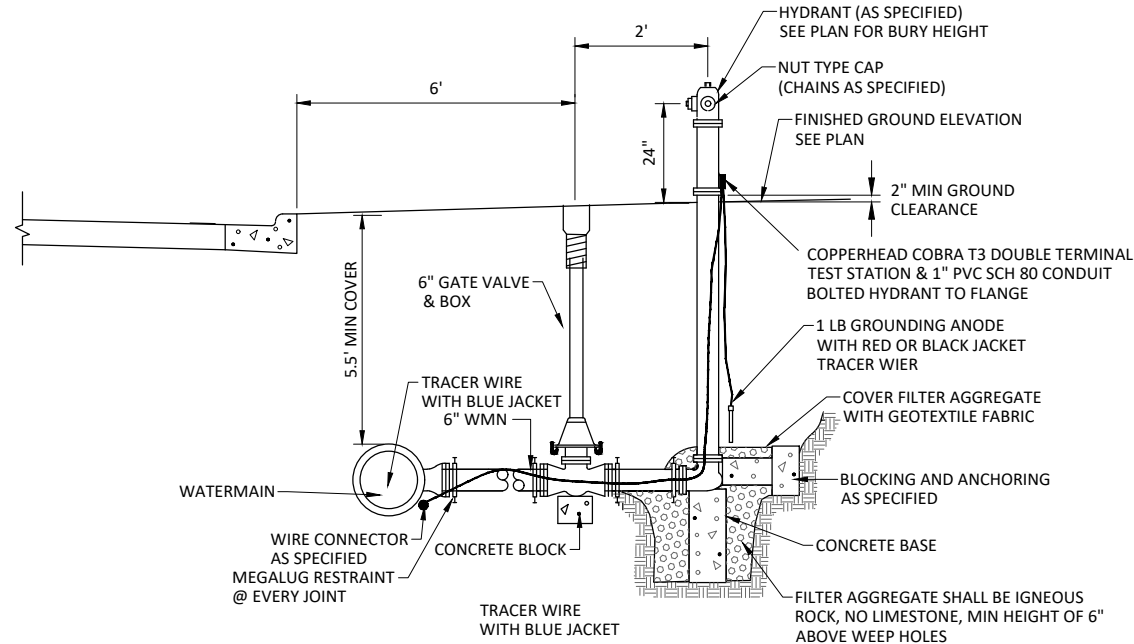
CITY OF STORM LAKE, IOWA

2022 4TH STREET WATERMAIN IMPROVEMENTS

LEGEND SHEET

SHEET

A.02

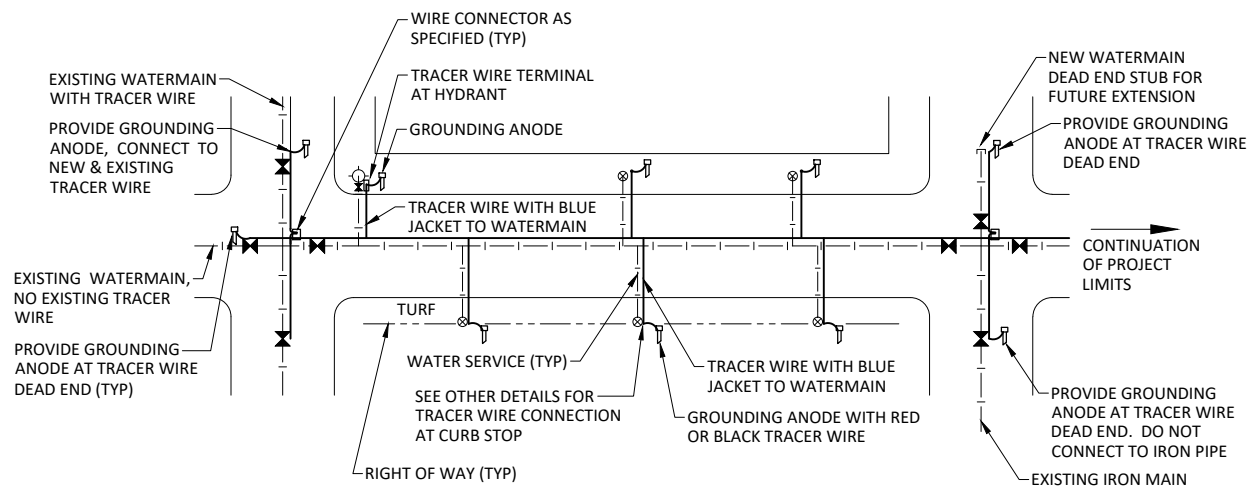


NOTES

- HYDRANTS LOCATED WHERE THE GROUNDWATER TABLE IS ABOVE THE DRAIN OUTLET SHALL HAVE THE OUTLET DRAIN PLUGGED AND SHALL BE EQUIPPED WITH A TAG STATING "PUMP AFTER USE"
- REFER TO TRACER WIRE DETAILS FOR ADDITIONAL INFORMATION.

HYDRANT INSTALLATION, MEGALUGS

NOT TO SCALE

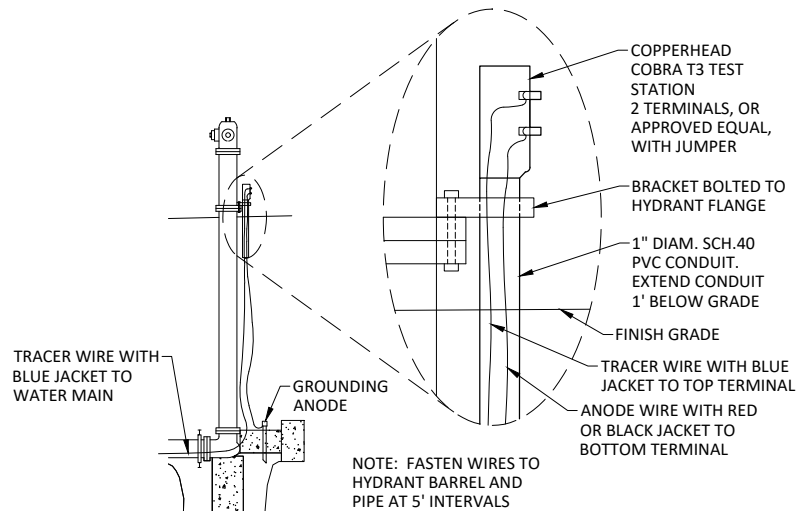


NOTES:

- NUMBER OF SERVICES, CASTINGS AND TRACER WIRE ACCESS BOXES REQUIRED PER BLOCK VARIES. REFER TO MWM SHEETS.
- CONNECTIONS TO EXISTING WATERMAINS AND TRACER WIRES VARY BY LOCATION.
- DO NOT CAD WELD TRACER WIRE TO DUCTILE IRON PIPE.

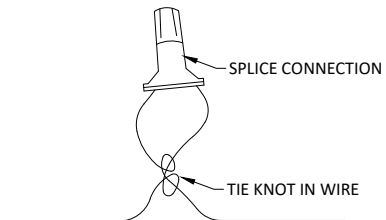
TRACER WIRE SYSTEM SCHEMATIC - WATER DISTRIBUTION

NOT TO SCALE



TRACER WIRE AT HYDRANT

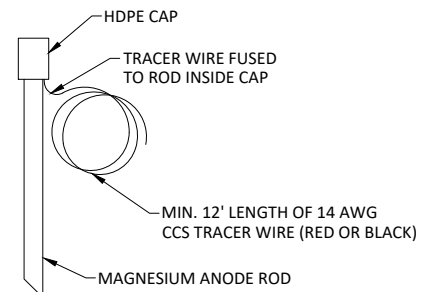
NOT TO SCALE



WHERE IN-LINE SPLICES ARE REQUIRED ALONG
PIPES, THE TRACER WIRE SHALL BE KNOTTED
PRIOR TO INSERTION INTO THE SPLICE
CONNECTION.

IN-LINE TRACER WIRE SPLICE

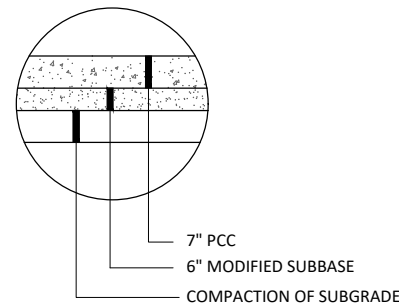
NOT TO SCALE



NOTE: MAGNESIUM ROD DIMENSIONS SHALL BE
APPROX. 18" LONG BY 1.3" DIAM., AND APPROX. 1
LB IN WEIGHT

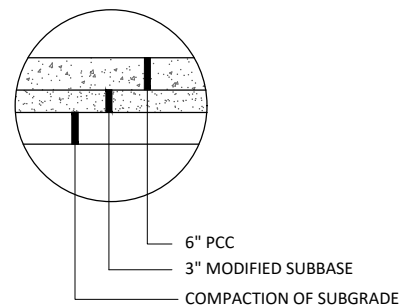
GROUNDING ANODE

NOT TO SCALE



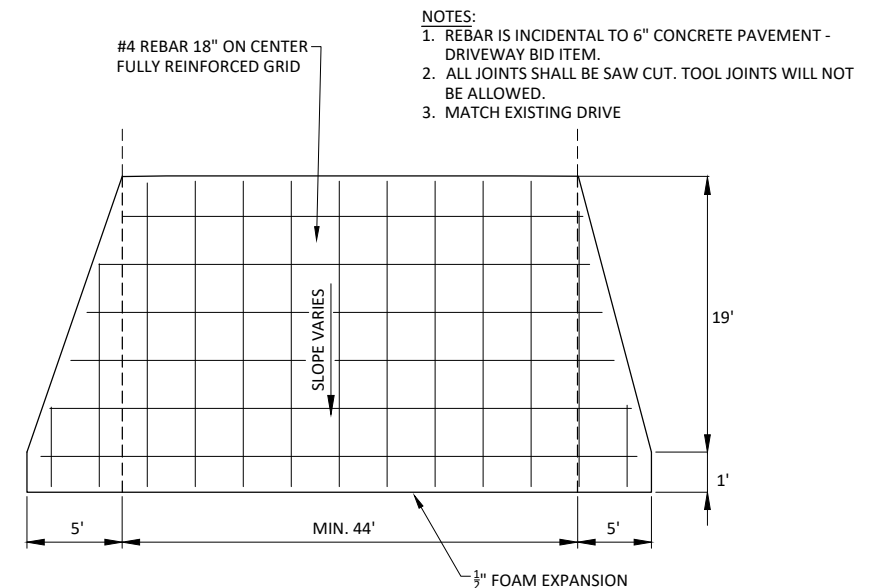
CONCRETE PAVEMENT REPAIR

NOT TO SCALE



CONCRETE DRIVEWAY & PARKING LOT

NOT TO SCALE



NOTES:

- REBAR IS INCIDENTAL TO 6" CONCRETE PAVEMENT - DRIVEWAY BID ITEM.
- ALL JOINTS SHALL BE SAW CUT. TOOL JOINTS WILL NOT BE ALLOWED.
- MATCH EXISTING DRIVE

CONCRETE DRIVEWAY DETAIL

NOT TO SCALE



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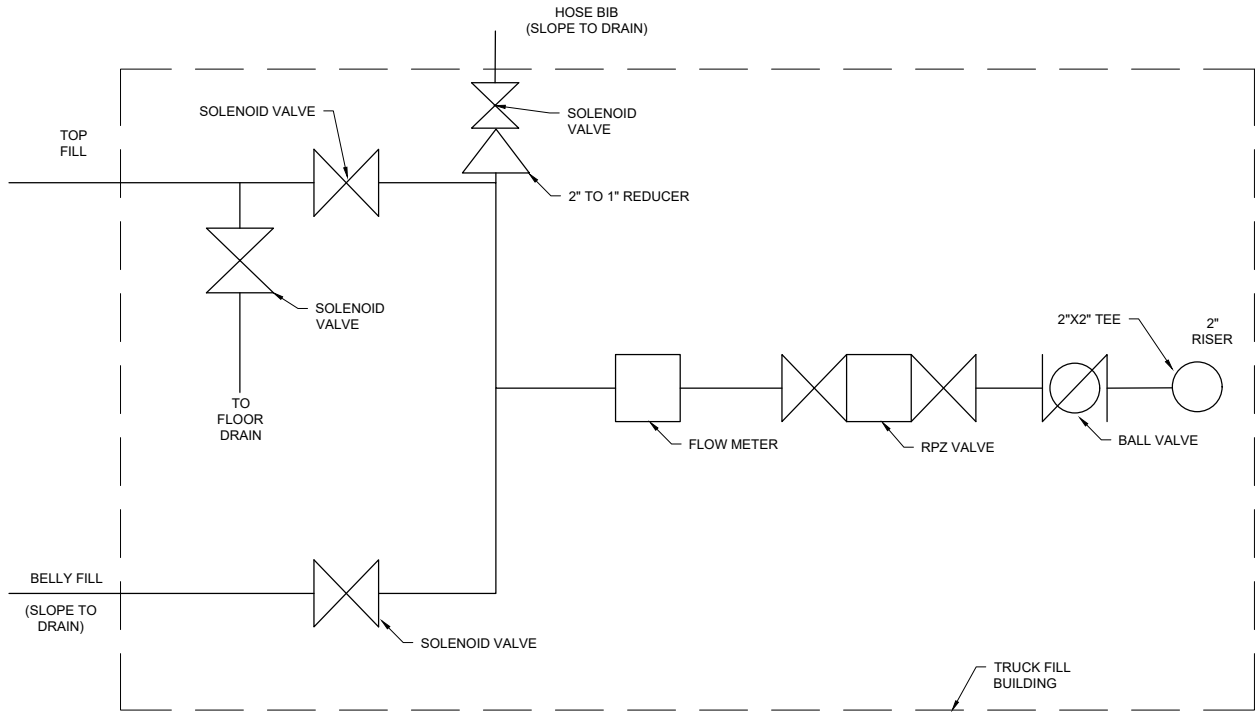
CITY OF STORM LAKE, IOWA

2022 4TH STREET WATERMAIN IMPROVEMENTS

TYPICAL SECTIONS AND DETAILS

SHEET

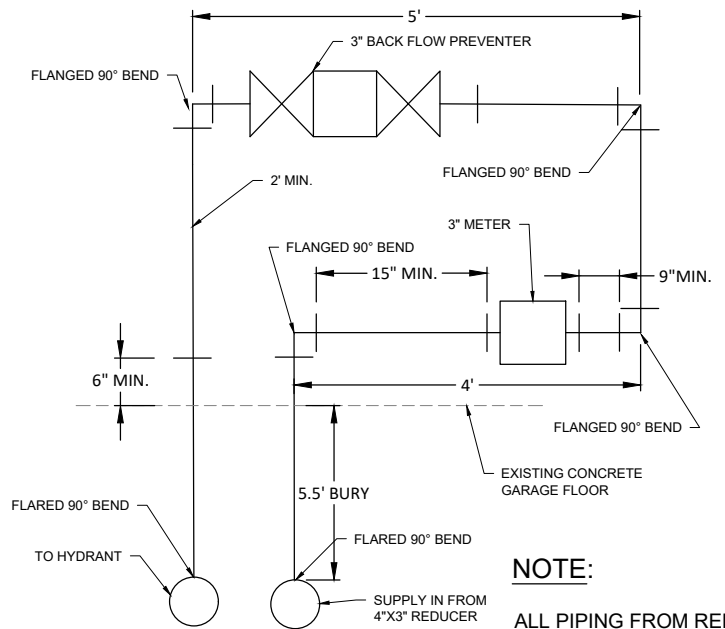
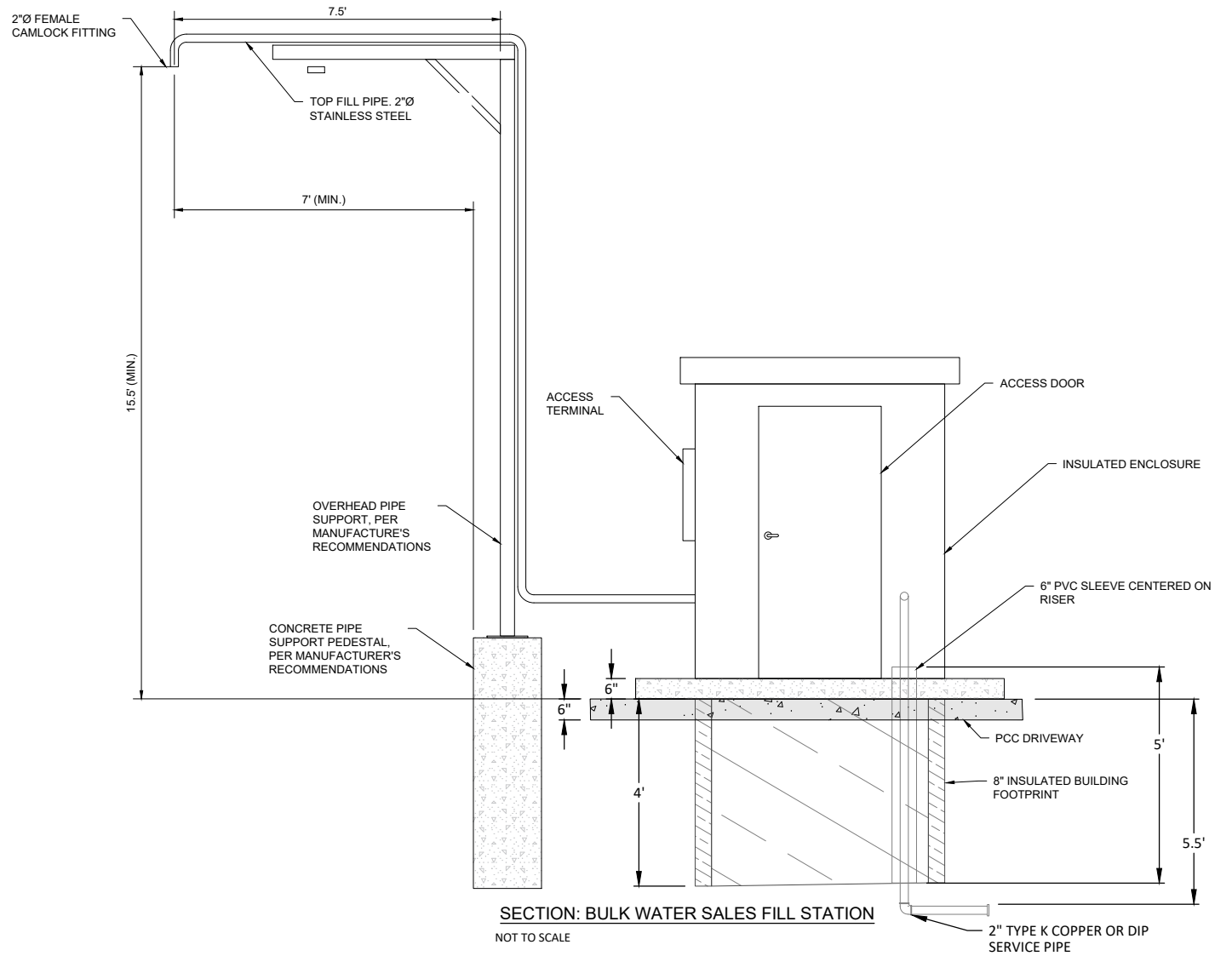
B.01



BULK WATER SALES FILL STATION PROCESS FLOW DIAGRAM
NOT TO SCALE

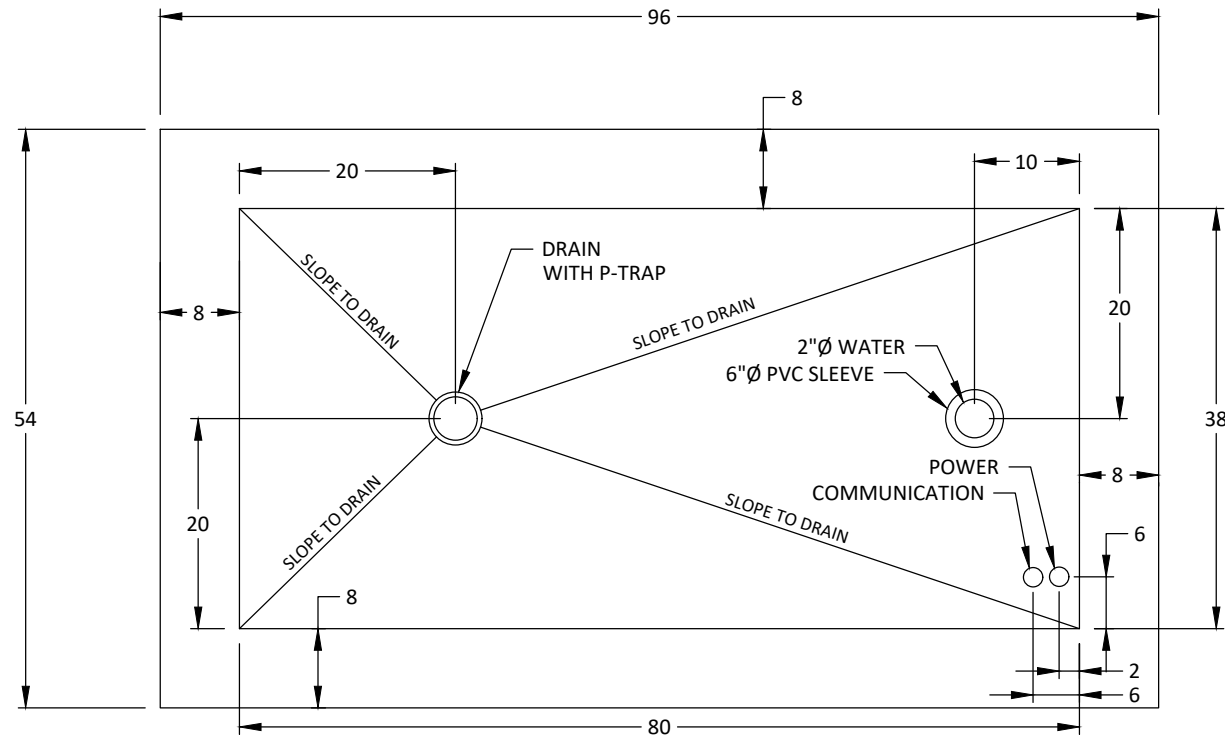
NOTES:

1. PROVIDE BULK WATER SALES FILL STATION INCLUDING:
 - 1.1. TOP FILL PIPE, INCLUDING OVERHEAD PIPE AND SUPPORT
 - 1.2. BELLY FILL PIPE
 - 1.3. HOSE BIB FILL PIPE
 - 1.4. INSULATED BUILDING, INCLUDING INSULATED SLAB ON GRADE
 - 1.5. ACCESS TERMINAL AND CREDIT CARD READER
 - 1.6. ASSOCIATED PIPING AND APPURTENANCES (NOT SHOWN)
 - 1.7. PROVIDE 10LF 2" DIA. HARD STYLE HOSE WITH CAMLOCK FITTINGS AND CONICAL STYLE AIR GAP UNIT WITH CAMLOCK FITTINGS FOR OVERHEAD FILL STATION
2. PROVIDE SLAB ON GRADE AND OVERHEAD PIPE SUPPORT PER MANUFACTURER'S RECOMMENDATIONS
3. DIMENSIONS SHOWN BASED ON SYSTEM MANUFACTURED BY FLOWPOINT ENVIRONMENTAL SYSTEMS, FOR REFERENCE ONLY
 - 3.1. BULK WATER SALES STATION GENERAL LAYOUT SHOWN FOR REFERENCE. ADJUSTMENT TO DIMENSIONS, PADS, ETC WILL BE REQUIRED BASED ON THE SUPPLIER USED AND THE ACTUAL SYSTEM UNIT PROVIDED
4. PROVIDE 8" THICK, 4' DEEP INSULATION AT SLAB PERIMETER. BACKFILL INSULATED BUILDING FOOTPRINT WITH MATERIAL MEETING SUDAS SECTION 2010, 2.4, D, 1. SPECIAL BACKFILL
5. REQUIRED ELECTRICAL SERVICE AND INTERNET ACCESS SHALL BE COORDINATED WITH CITY STAFF AND BROUGHT FROM INSIDE THE CITY SHOP BUILDING WITH 1" CONDUIT, WALL PENETRATIONS AND 1" CONDUIT TO BULK WATER SALES UNIT
6. SLAB PIPE PENETRATION LOCATIONS TO BE COORDINATED WITH BULK WATER SALES FILL STATION MANUFACTURER
7. REFER TO TECHNICAL SPECIFICATION SECTION 2510 FOR FURTHER INFORMATION AND DETAILS
8. ALL UNDERGROUND WATER SERVICE SUPPLY PIPING SHALL BE PROTECTED FROM CONTAMINATED SOILS AS SPECIFIED IN SUDAS SECTION 5010.



NOTE:

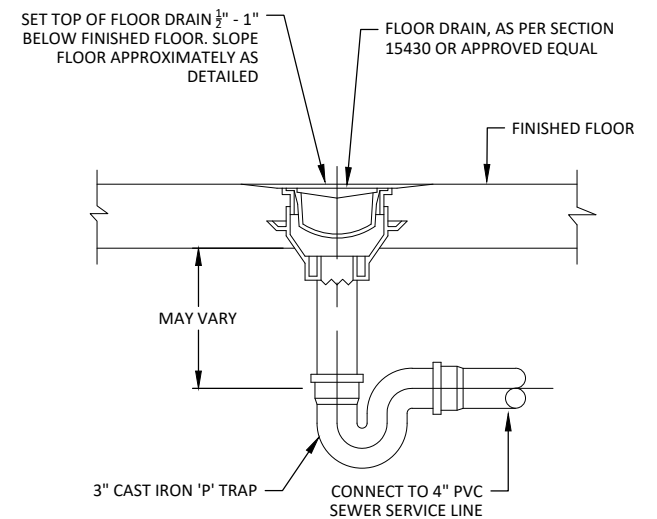
ALL PIPING FROM REDUCER INTO BUILDING AND OUT TO HYDRANT SHALL BE DUCTILE IRON FLANGED PIPE



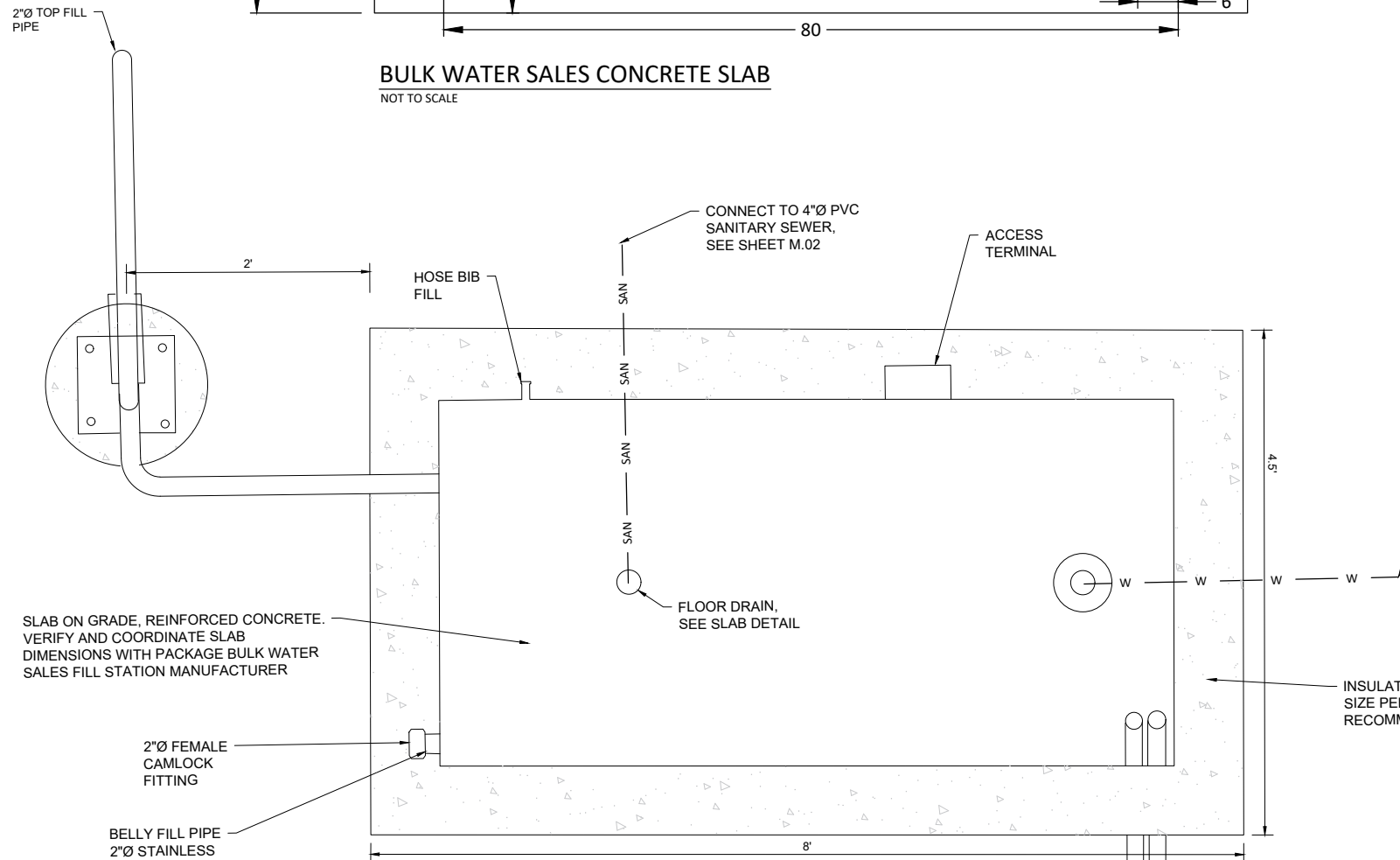
BULK WATER SALES CONCRETE SLAB
NOT TO SCALE

CONSTRUCTION NOTES:

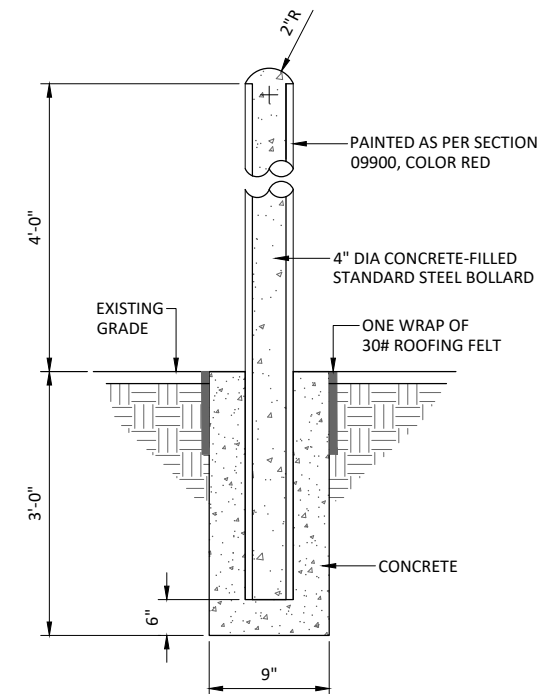
1. ALL UNITS ARE IN INCHES
2. REFER TO TECHNICAL SPECIFICATIONS SECTION 2510 FOR MORE INFORMATION
3. SLAB SHALL BE 6" NOM. THICKNESS
4. BASE SLAB SHALL HAVE SINGLE LAYER OF REINFORCEMENT, NO. 4 BARS AT 8" O.C., 2" MINIMUM CLEARANCE FROM EDGES AND CENTERED IN THE SLAB THICKNESS
5. FLOOR DRAIN SHALL BE ½" - 1" LOWER THAN FLOOR PERIMETER.
6. PROVIDE SLAB ON GRADE AND OVERHEAD SUPPORT PER MANUFACTURER RECOMMENDATIONS
7. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND SLAB PIPE PENETRATION LOCATIONS WITH BULK WATER SALES FILL STATION MANUFACTURER



DUCTILE IRON P-TRAP
NOT TO SCALE



PLAN: BULK WATER SALES FILL STATION
NOT TO SCALE



BOLLARD GUARD POST
NOT TO SCALE

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218 11TH STREET SW PLAZA
SPENCER, IOWA 51301
Phone: (712) 580-5075
Email: Spencer@bolton-menk.com
www.bolton-menk.com

DESIGNED	REV	DESCRIPTION	DATE
KMA	A	60% PLAN	12/10/21
KMA	B	90% PLAN	1/17/22
CHECKED	O	BID	02/15/22
JDL			
CLIENT PROJ. NO.			
OP1125220			

CITY OF STORM LAKE, IOWA
2022 4TH STREET WATERMAIN IMPROVEMENTS
BULK WATER SALES DETAILS

SHEET
B.03

	ESTIMATED PROJECT QUANTITIES				
ITEM NO.	ITEM CODE	ITEM	UNIT	QUANT	AS BUILT QUANT.
1	2010-108-I-0	SUBBASE, MODIFIED, 6"	SY	200	
2	2010-108-J-3-a	REMOVAL OF KNOWN PIPE AND CONDUIT, WATERMAIN, 4"	LF	175	
3	3010-108-C-0	TRENCH FOUNDATION	TON	10	
4	4010-108-E-0	SANITARY SEWER SERVICE STUB, PVC, 4"	LF	68	
5	4010-108-X-1	4" ON 4" SANITARY SEWER SERVICE WYE	EA	2	
6	4010-108-X-2	REMOVE RV DUMP STATION AND PIPE	LS	1	
7	5010-108-A-1	WATER MAIN, TRENCHED, DIP, 4"	LF	36	
8	5010-108-A-1	WATER MAIN, TRENCHED, PVC DR-18, 8"	LF	180	
9	5010-108-C-2	FITTINGS, DIP	LB	181	
10	5010-108-E-1	WATER SERVICE PIPE, 2"	LF	10	
11	5010-108-E-2	WATER SERVICE CORPORATION, 2" ON 4"	EA	1	
12	5010-108-E-3	WATER SERVICE CURB STOP AND BOX, 2"	EA	1	
13	5020-108-A-0	VALVE, GATE, 4"	EA	1	
14	5020-108-A-0	VALVE, GATE, 8"	EA	1	
15	5020-108-B-0	TAPPING SLEEVE AND VALVE ASSEMBLY, 4"	EA	1	
16	5020-108-C-0	FIRE HYDRANT ASSEMBLY SALVAGE AND RELOCATE	EA	1	
17	6010-108-E-0	MANHOLE ADJUSTMENT, MINOR	EA	1	
18	6010-108-G-0	CONNECTION TO EXISTING WATER MAIN	EA	2	
19	7010-108-A-0	PAVEMENT, PCC, 7"	SY	115	
20	7030-108-A-0	REMOVAL OF DRIVEWAY	SY	168	
21	7030-108-H-1	DRIVEWAY, PAVED, PCC, 6"	SY	168	
22	7040-108-H-0	CONCRETE REMOVAL	SY	115	
23	7070-108-B-1	AGGREGATE, CLASS A	TON	65	
24	8030-108-A-0	TEMPORARY TRAFFIC CONTROL	LS	1	
25	9010-108-A-0	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING	AC	0.1	
26	9040-108-F-1	WATTLE, WOOD, 9"	LF	250	
27	9060-108-D-0	REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK	LF	20	
28	11020-108-A-1	MOBILIZATION	LS	1	
29	12040-108-X-1	BULK WATER SALES PACKAGE	LS	1	
30	12040-108-X-2	CITY SHOP HYDRANT PLUMBING	LS	1	
31	12050-108-X-3	BOLLARD	EA	5	

ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
1	2010-108-I-0	SUBBASE, MODIFIED, 6" MODIFIED SUBBASE TO BE INSTALLED WHERE NOTED ON THE TYPICAL SECTIONS, INCLUDING AREAS UNDER THE PCC PAVEMENT AND PCC DRIVEWAYS. THIS ITEM INCLUDES , 6" UNDER PAVEMENT AND 3" UNDER ALL DRIVEWAYS PAID AT (0.5*DRIVEWAY AREA). ADDITIONAL EXCAVATIONS REQUIRED FOR MODIFIED SUBBASE AND PAVEMENT PLACEMENT IS INCIDENTAL TO THIS ITEM.
2	2010-108-J-3-a	REMOVAL OF KNOWN PIPE AND CONDUIT, WATERMAIN, 4" CONTRACTOR SHALL REMOVE EXISTING WATERMAIN PIPING IN THE LOCATIONS SHOWN ON THE PLANS. ANY EXISTING VALVES AND BOXES SHALL BE REMOVED AND ARE INCIDENTAL TO THIS ITEM. ALL BACKFILL SHALL BE INCLUDED WITH THIS ITEM IF IN LOCATIONS WHERE NEW MAIN IS NOT INSTALLED. ITEMS SHALL BE PAID BY THE LINEAR FOOT FOR PIPE REMOVED AS MEASURED BY THE ENGINEER.
3	3010-108-C-0	TRENCH FOUNDATION THIS ITEM IS TO INCORPORATE TRENCH FOUNDATION WHERE UNSUITABLE MATERIALS ARE FOUND BELOW THE PIPE BEDDING DURING CONSTRUCTION. QUANTITY IS ESTIMATED TO ESTABLISH A UNIT PRICE. THE ACTUAL TRENCH FOUNDATION USED WILL BE PAID. ENGINEER SHALL APPROVE ALL TRENCH FOUNDATION LOCATIONS PRIOR TO CONTRACTOR PREFORMING THIS WORK. MATERIAL PLACED IN LIEU OF PERFORMING NECESSARY DEWATERING SHALL NOT BE PAID.
4	4010-108-E-0	SANITARY SEWER SERVICE STUB, PVC, 4" THIS ITEM INCLUDES LABOR, EQUIPMENT, TRENCH EXCAVATION, FURNISHING AND INSTALLING PIPE, COMPACTING BEDDING, BACKFIL MATERIAL, FITTINGS, TESTING, AND INSPECTION AS DIRECTED ON PLANS. CONNECTIONS TO EXISTING PIPE SHALL BE MADE USING "FERNCO" 5000 SERIES STRONG BACK STYLE RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS, OR EQUAL.
5	4010-108-X-1	4" ON 4" SANITARY SEWER SERVICE WYE THIS ITEM INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS TO COMPLETE THE CONNECTION OF THE SANITARY SEWER SERVICE PIPES.
6	4010-108-X-2	REMOVE RV DUMP STATION AND PIPE THIS ITEM IS FOR THE REMOVAL OF THE EXISTING RV DUMP STATION AND SERVICE PIPE. ITEM INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS TO COMPLETE THE REMOVAL AND BACKFILL THE EXCAVATION. ANY EXISTING CASTINGS SHALL BE SALVAGED TO THE CITY.
7	5010-108-A-1	WATER MAIN, TRENCHED, DIP, 4" PIPE SHALL BE DIP CL52 WITH NITRILE GASKETS. ALL JOINTS, THRUST BLOCKS, TRACER WIRE SYSTEM, AND CONNECTIONS TO EXISTING MAINS ARE CONSIDERED INCIDENTAL TO THIS ITEM. PIPE BEDDING CLASS SHALL CONFORM WITH SUDAS STANDARD PLATE SW-104, CLASS P-3. BEDDING MATERIAL SHALL BE CLASS I. CONTRACTOR SHALL COORDINATE WATER MAIN CONNECTIONS AND SHUTDOWN WITH STORM LAKE UTILITY STAFF. STORM LAKE WILL PROVIDE WATER FOR INITIAL FILL AND FLUSHING. CONTRACTOR WILL BE CHARGED FOR WATER FLUSHING AFTER THE FIRST FAILED TEST. TESTING AND DISINFECTING SYSTEM PRIOR TO FINAL ACCEPTANCE IS CONSIDERED INCIDENTAL. TRACER WIRE SHALL BE #14 COPPER CLAD STEEL WIRE OR #12 AWD SOLID COPPER WIRE WITH 30-MIL HDPE INSULATING JACKET TAPED TO THE MAIN. TRACER WIRE SYSTEM SHALL USE 3M SPLICE KITS AND COPPERHEAD GROUNDING ANODES AND TERMINAL BOX. STORM LAKE UTILITIES WILL TEST THE TRACER WIRE SYSTEM PRIOR TO FINAL ACCEPTANCE.
8	5010-108-A-1	WATER MAIN, TRENCHED, PVC DR-18, 8" PIPE SHALL BE PVC DR-18 UNLESS OTHERWISE NOTED. ALL JOINTS, THRUST BLOCKS, TRACER WIRE SYSTEM, AND CONNECTIONS TO EXISTING MAINS ARE CONSIDERED INCIDENTAL TO THIS ITEM. PIPE BEDDING CLASS SHALL CONFORM WITH SUDAS STANDARD PLATE SW-104, CLASS P-3. BEDDING MATERIAL SHALL BE CLASS I. CONTRACTOR SHALL COORDINATE WATER MAIN CONNECTIONS AND SHUTDOWN WITH STORM LAKE UTILITY STAFF. STORM LAKE WILL PROVIDE WATER FOR INITIAL FILL AND FLUSHING. CONTRACTOR WILL BE CHARGED FOR WATER FLUSHING AFTER THE FIRST FAILED TEST. TESTING AND DISINFECTING SYSTEM PRIOR TO FINAL ACCEPTANCE IS CONSIDERED INCIDENTAL. TRACER WIRE SHALL BE #14 COPPER CLAD STEEL WIRE OR #12 AWD SOLID COPPER WIRE WITH 30-MIL HDPE INSULATING JACKET TAPED TO THE MAIN. TRACER WIRE SYSTEM SHALL USE 3M SPLICE KITS AND COPPERHEAD GROUNDING ANODES AND TERMINAL BOX. STORM LAKE UTILITIES WILL TEST THE TRACER WIRE SYSTEM PRIOR TO FINAL ACCEPTANCE.
9	5010-108-C-2	FITTINGS, DIP ALL FITTINGS SHALL BE DUCTILE IRON, MECHANICAL JOINT, RESTRAINED JOINT WITH MEGALUG OR APPROVED EQUAL. NUTS AND BOLTS TO BE FLUOROCARBON COATED WITH 1-2.5 MIL THICKNESS. WEIGHTS ARE PER AWWA C-153. POLYETHYLENE WRAP AND BEDDING MATERIAL IS CONSIDERED INCIDENTAL TO THIS ITEM. ALL JOINTS TO HAVE A MINIMUM OF (2) 6 OZ. SACRIFICIAL ZINC ANODE CAPS PER GLAND INSTALLED.



218 11TH STREET SW PLAZA
SPENCER, IOWA 51301
Phone: (712) 580-5075
Email: Spencer@bolton-menk.com
www.bolton-menk.com

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CHECKED	JDL	B	90% PLAN	1/17/22
CLIENT PROJ. NO.	OP1125220	O	BID	02/15/22

CITY OF STORM LAKE, IOWA		SHEET C.01
2022 4TH STREET WATERMAIN IMPROVEMENTS		
QUANTITIES AND ESTIMATE REFERENCE NOTES		

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ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
10	5010-108-E-1	WATER SERVICE PIPE, 2" REFER TO M SHEETS FOR LOCATION. PIPE MATERIAL SHALL BE TYPE K COPPER OR D.I.P. AND INCLUDE GASKETS AND FITTINGS THAT PROTECT AGAINST CONTAMINATED SOILS. LENGTH OF SERVICE IS FROM THE 4" WATERMAIN TO THE 90 DEGREE BEND ON THE BOTTOM OF THE BULK SALES UNIT RISER PIPE.
11	5010-108-E-2	WATER SERVICE CORPORATION, 2" ON 4" TAPPING SADDLE SHALL BE DUCTILE IRON BODY WITH 304L STAINLESS STEEL STRAPS AND 4 STAINLESS STEEL BOLTS. CORPORATION STOP SHALL BE BALL VALVE STYLE WITH CTS COMPRESSION FITTINGS, AS MFG. BY A.Y. MCDONALD, FORD METER COMPANY, OR APPROVED EQUAL.
12	5010-108-E-3	WATER SERVICE CURB STOP AND BOX, 2" CURB STOP SHALL BE BALL VALVE STYLE WITH CTS COMPRESSION FITTINGS, AS MFG. BY A.Y. MCDONALD, FORD METER COMPANY, OR APPROVED EQUAL. CURB BOX SHALL BE MINNEAPOLIS PATTERN WITH 1-1/4" UPPER SECTION AND LID WITH PENTAGON PLUG AS MFG. BY A.Y. MCDONALD, FORD METER COMPANY OR APPROVED EQUAL.
13	5020-108-A-0	VALVE, GATE, 4" VALVES SHALL BE RESILIENT WEDGE, NON-RISING STEM, IRON BODY, 2" SQUARE OPENING NUT, OPEN LEFT, MECHANICAL JOINTS AND 200 PSI WORKING PRESSURE. VALVES BOXES SHALL BE HEAVY DUTY (THICK CAST) MARKED "WATER" ON VALVE BOX COVER. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL.
14	5020-108-A-0	VALVE, GATE, 8" VALVES SHALL BE RESILIENT WEDGE, NON-RISING STEM, IRON BODY, 2" SQUARE OPENING NUT, OPEN LEFT, MECHANICAL JOINTS AND 200 PSI WORKING PRESSURE. VALVES BOXES SHALL BE HEAVY DUTY (THICK CAST) MARKED "WATER" ON VALVE BOX COVER. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL.
15	5020-108-B-0	TAPPING SLEEVE AND VALVE ASSEMBLY, 4" TAPPING SLEEVE SHALL BE STAINLESS STEEL AS SPECIFIED IN SUDAS SECTION 5020 AND GATE VALVE AS NOTED IN ITEM #10. ITEM ALSO INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS TO COMPLETE THE LIVE TAP OF THE EXISTING MAIN.
16	5020-108-C-0	FIRE HYDRANT ASSEMBLY SALVAGE AND RELOCATE THIS ITEM IS FULL COMPENSATION FOR MATERIALS, LABOR AND EQUIPMENT TO SALVAGE AND RELOCATE THE EXISTING FIRE HYDRANT AS DIRECTED IN THE PLANS.
17	6010-108-E-0	MANHOLE ADJUSTMENT, MINOR THIS IS FULL COMPENSATION FOR MATERIALS, LABOR AND EQUIPMENT TO ADJUST THE SANITARY MANHOLE CASTING. MANHOLE CASTING SHALL BE SW-601, TYPE 'B' CASTING AND READ "SANITARY SEWER" FURNISHED AND INSTALLED AS PART OF THIS PAY ITEM. PROVIDE I&I BARRIER CHIMNEY SEAL BY STRIKE PRODUCTS OR APPROVED EQUAL, FURNISHED AND INSTALLED AS PART OF THIS PAY ITEM.
18	6010-108-G-0	CONNECTION TO EXISTING WATER MAIN THIS ITEM SHALL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO CONNECT THE PROPOSED WATERMAIN TO THE EXISTING WATERMAIN. MAXIMUM SHUTDOWN LENGTH FOR THE CONNECTION SHALL BE NO MORE THAN 4 HOURS AS DIRECTED BY THE CITY OF STORM LAKE. NO RESIDENT MAY BE SHUT DOWN MORE THAN 1 TIME IN A 24 HOUR PERIOD. ENGINEER SHALL COUNT EACH CONNECTION AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH CONNECTION.
19	7010-108-A-0	PAVEMENT, PCC, 7" GROUND GRANULATED BLAST FURNACE SLAG SHALL NOT BE PERMITTED FOR ANY WORK ON THIS PROJECT. CONCRETE SHALL BE IDOT CLASS C, MINIMUM STRENGTH OF 4000 PSI AT 28 DAYS. SUBGRADE PREPARATION, FORMWORK, ADDITIONAL THICKNESS AT THICKENED EDGES, JOINTING, AND SEALING SHALL BE CONSIDERED INCIDENTAL.
20	7030-108-A-0	REMOVAL OF DRIVEWAY REFER TO R SHEETS FOR REMOVAL OF PAVEMENT LOCATIONS. ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. FULL DEPTH SAW CUTS ALONG THE REMOVAL LIMITS ARE INCIDENTAL TO THIS ITEM. THE CONTRACT SHALL BE RESPONSIBLE FOR ADDITIONAL REMOVAL, EARTHWORK, SUBGRADE PREPARATION, MODIFIED SUBBASE AND PAVING EXPENSES DUE TO DAMAGED EDGES. ADDITIONAL REMOVAL TO BE DETERMINED BY ENGINEER. PAYMENT SHALL BE MADE FOR THE AREA OF PAVEMENT REMOVED, REGARDLESS OF THICKNESS. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL MATERIALS AT AN OFFSITE DISPOSAL AREA.
21	7030-108-H-1	DRIVEWAY, PAVED, PCC, 6" GROUND GRANULATED BLAST FURNACE SLAG SHALL NOT BE PERMITTED FOR ANY WORK ON THIS PROJECT. CONCRETE SHALL BE IDOT CLASS C, MINIMUM STRENGTH OF 4000 PSI AT 28 DAYS.

ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
22	7040-108-H-0	CONCRETE REMOVAL REFER TO R SHEETS FOR REMOVAL OF PAVEMENT LOCATIONS. ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. FULL DEPTH SAW CUTS ALONG THE REMOVAL LIMITS ARE INCIDENTAL TO THIS ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL REMOVAL, EARTHWORK, SUBGRADE PREPARATION, MODIFIED SUBBASE AND PAVING EXPENSES DUE TO DAMAGED EDGES. ADDITIONAL REMOVAL TO BE DETERMINED BY ENGINEER. PAYMENT SHALL BE MADE FOR THE AREA OF PAVEMENT REMOVED, REGARDLESS OF THICKNESS. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL MATERIALS AT AN OFFSITE DISPOSAL AREA.
23	7070-108-B-1	AGGREGATE, CLASS A THIS ITEM SHALL BE FOR SURFACE PREPARATION AND FURNISHING AND PLACING OF MATERIAL. AGGRAGATE SHALL BE IADOT CLASS A WITH A MINIMUM THICKNESS OF 6" IN ALL EXCAVATED AREAS AND 1" TOP DRESS ON ALL OTHER EXPOSED AGGRAGTE AREAS NORTH OF THE BULK WATER SALES SITE.
24	8030-108-A-0	TEMPORARY TRAFFIC CONTROL THE CONTRACTOR SHALL FURNISH AND MAINTAIN TRAFFIC CONTROL DEVICES REQUIRED FOR THE DURATION OF THIS PROJECT INCLUDING PEDESTRIAN/SIDEWALK TRAFFIC CONTROL DEVICES. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS ADOPTED BY THE IADOT. ALL TRAFFIC CONTROL DEVICES SHALL BE PROPERLY LOCATED, MAINTAINED, AND KEPT CLEAN AND LEGIBLE BY THE CONTRACTOR TO PROVIDE FOR SAFE TRAFFIC FLOW AT ALL TIMES. COORDINATE ALL SIDEWALK, STREET AND LANE CLOSURES WITH THE ENGINEER AND THE CITY OF STORM LAKE.
25	9010-108-A-0	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING SEED ALL AREAS VEGETATION DISTURBED BY CONSTRUCTION. THE RESPONSIBILITY AND COST FOR WATERING SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. NO ADDITIONAL PAYMENTS WILL BE MADE FOR RESEEDED AREAS. THE CONTRACTOR IS RESPONSIBLE FOR MOWING AND MAINTAINING SEEDED AREAS UNTIL THE PROJECT IS ACCEPTED BY THE OWNER. SEEDING OF AREAS DISTURBED OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER. HYDRAULIC SEEDING OR SOD MAY BE USED IN PLACE OF THIS ITEM AT THE SAME UNIT PRICE.
26	9040-108-F-1	WATTLE, WOOD, 9" THIS ITEM INCLUDES THE INSTALLATION, MAINTENANCE AND REMOVAL OF WATTLES.
27	9060-108-D-0	REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK THIS IS FULL COMPENSATION FOR MATERIALS, LABOR AND EQUIPMENT TO SALVAGE AND REINSTALL THE FENCE AS DIRECTED IN THE PLANS.
28	11020-108-A-1	MOBILIZATION THIS ITEM IS FOR ALL PREPARATORY WORK AND COSTS INCURRED BEFORE BEGINNING THE WORK ON THE PROJECT AND DURING THE PROJECT. THIS ITEM SHALL ALSO INCLUDE THE COSTS FOR ANY STAGED CONSTRUCTION AND EQUIPMENT SET UP TO COMPLETE THE WORK. NO CHANGE IN THE CONTRACT PRICE WILL BE MADE FOR ANY CHANGE IN STAGING OR COMBINATION THEREOF.
29	12040-108-X-1	BULK WATER SALES PACKAGE THIS ITEM SHALL BE FULL COMPESATION FOR ALL LABOR, MATERIALS AND EQUIPMENT, BOTH ON AND OFFSITE, TO COMPLETE THE INSTALLATION OF A BULK WATER SALES SYSTEM. THIS ITEM SHALL INCLUDE WATER FEED RISER PIPE AND 90 DEGREE BEND, INSULATED FOOTPRINT, BACKFILL MATERIAL, TOP FILL PIPE AND SUPPORT, BELLY FILL, HOSE BIB FILL, INSULATED CABINET, PIPING, VALVING, ELECTRONICS AND CONTROLS, ACCESS PANEL AND CREDIT CARD BILLING SYSTEM AND OTHER ITEMS AS SPECIFIED IN TECHNICAL SPECIFICATIONS SECTION 2510 OF THE PROJECT MANUAL, BULK WATER SALES SYSTEM.
30	12040-108-X-2	CITY SHOP HYDRANT PLUMBING THIS ITEM SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR AND EQUIPMENT, BOTH ON AND OFFSITE, TO INSTALL ALL PIPING, WATER METER, BACKFLOW PREVENTOR AND HYDRANT AS DIRECTED IN THE PLANS. HYDRANT SHALL BE MUELLER SUPER CENTURION A411 WITH ONE 2 1/2" HOSE NOZZLE. ALL PIPING FROM THE 4" TO 3" REDUCER TO INSIDE THE CITY SHOP BUILDING AND BACK OUT TO THE HYDRANT SHALL BE PART OF THIS LUMP SUM ITEM. CONNECTION INTO REDUCER SHALL BE MECHANICAL JOINT AND ALL JOINTS INTO THE BUILDING AND TO THE HYDRANT SHALL BE DUCTILE IRON PIPE WITH FLANGED JOINTS. THIS ITEM ALSO INCLUDES THE PIPE SUPPORTS, PCC FLOOR REPLACEMENT AND THREE BOLLARDS INSIDE THE BUILDING. CONCRETE SHALL BE A MINIMUM THICKNESS OF 6" AND FINISH SHALL MATCH THE EXISTING FLOORING.
31	12050-108-X-3	BOLLARD THIS ITEM SHALL BE FULL COMPESATION FOR ALL LABOR, MATERIALS AND EQUIPMENT TO COMPLETE THE INSTALLATIONS AT THE LOCATIONS SHOWN ON SHEET M.02. BOLLARD SHALL BE PREPPED AND PAINTED AS PER SECTION 09900; COLOR RED. ITEM TO BE PAID PER EACH FOR BOLLARD AS SPECIFIED ON DETAIL SHEET B.03.

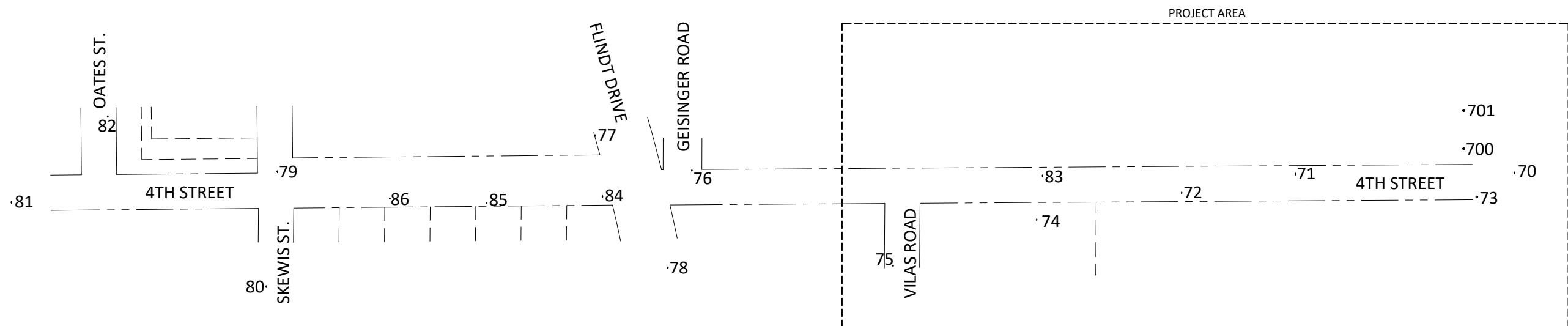


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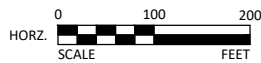
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SPENCER, IOWA 51301
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DESIGNED	KMA	REV	DESCRIPTION	DATE
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		B	90% PLAN	1/17/22
CHECKED	JDL	O	BID	02/15/22
CLIENT PROJ. NO.	OP1125220			

CITY OF STORM LAKE, IOWA	SHEET C.02
2022 4TH STREET WATERMAIN IMPROVEMENTS	
QUANTITIES AND ESTIMATE REFERENCE NOTES	



CONTROL POINTS				
POINT NUMBER	NORTH COORDINATE	EAST COORDINATE	ELEVATION	DESCRIPTION
70	8639998.010	14406484.462	1425.611	VFCP /CUT X
71	8639995.921	14406111.809	1424.904	VFCP /CUT X
72	8639963.761	14405917.757	1423.362	VFCP /CUT X
73	8639956.881	14406420.431	1427.094	VFBM /BENCH TAG IN PP
74	8639917.911	14405670.906	1420.986	VFCP /CUT X
75	8639839.490	14405426.173	1418.558	VFCP /CUT X BOC
76	8640001.907	14405083.594	1422.600	VFCP /CUT X BOC
77	8640061.628	14404918.539	1424.633	VFCP /CUT X BOC
78	8639836.263	14405042.628	1421.585	VFCP /CUT X BOC
79	8639999.893	14404377.421	1418.953	VFCP /CUT X
80	8639804.250	14404358.497	1419.424	VFCP /CUT X
81	8639947.678	14403924.483	1422.698	VFCP /CUT X
82	8640093.769	14404088.785	1422.219	VFCP /CUT X BOC
83	8639992.754	14405680.676	1421.574	VFCP /CUT X
84	8639957.754	14404931.222	1422.315	VFCP /CUT X BOC
85	8639946.364	14404733.849	1420.133	VFCP /CUT X SWK S HYD
86	8639954.374	14404569.082	1419.911	VFCP /CUT X
700	8640038.942	14406398.019	1424.249	LMFR /5/8IN RBR YPC 11582
701	8640103.918	14406398.020	1424.434	LMFR /5/8IN RBR



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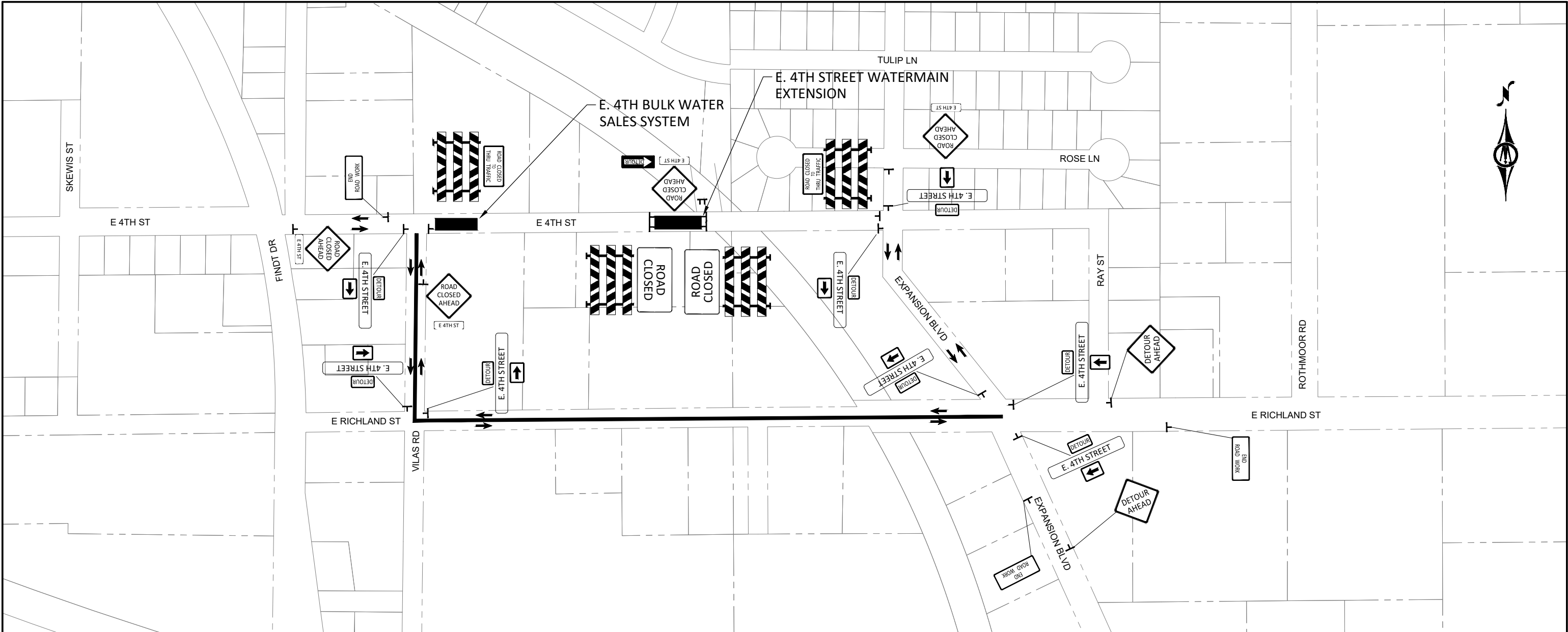
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CITY OF STORM LAKE, IOWA
2022 4TH STREET WATERMAIN IMPROVEMENTS
REFERENCES AND BENCHMARKS

SHEET

G.01



TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH OTHER PROJECTS IN THE AREA IF NECESSARY. FOR ADDITIONAL INFORMATION, REFER TO THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR THE IOWA DOT STANDARD ROAD PLANS.
2. THE LUMP SUM BID ITEM FOR "TEMPORARY TRAFFIC CONTROL" SHALL INCLUDE ALL COSTS FOR TRAFFIC CONTROL MEASURES DURING CONSTRUCTION FOR THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
3. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS AS ADOPTED BY THE IOWA DEPARTMENT OF TRANSPORTATION PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130.
4. ALL TRAFFIC CONTROL SIGNS SHALL BE PLACED A MINIMUM OF TWO (2) FEET CLEAR OF THE BACK OF CURB OR OUTSIDE EDGE OF SHOULDER WHERE POSSIBLE.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS NOTED OR OTHERWISE APPROVED BY THE CITY.
6. PROPOSED SIGN SPACING MAY BE MODIFIED, AS APPROVED BY THE ENGINEER, TO MEET EXISTING FIELD RESTRICTIONS, OR TO PREVENT OBSTRUCTION OF THE MOTORIST'S VIEW OF PERMANENT SIGNING.
7. PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN SHALL BE REVIEWED WITH THE CITY BEFORE CHANGES ARE MADE.
8. THIS LAYOUT DOES NOT INCLUDE ALL BARRICADES AS MAY BE REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
9. ANY TEMPORARY REGULATORY SIGNS ARE TO BE PROVIDED, LOCATED, AND MAINTAINED BY THE CONTRACTOR.
10. ALL CONTRACTOR FURNISHED TRAFFIC CONTROL AND FIXED, POST MOUNTED, TRAFFIC CONTROL SIGNS USED ON THIS PROJECT SHALL BE SHEETED WITH HIGH-VISIBILITY PRISMATIC REFLECTIVE SHEETING (TYPE III OR HIGHER).

11. THE CONTRACTOR SHALL FURNISH THE CITY WITH NAMES AND TELEPHONE NUMBERS OF TWO INDIVIDUALS RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES AND SIGNING. THE INDIVIDUAL(S) SHALL BE AVAILABLE FOR CORRECTIVE ACTION 24 HOURS A DAY, 7 DAYS A WEEK.
12. THE CONTRACTOR SHALL NOTIFY THE CITY OF STREET OR LANE CLOSURE TWO (2) WEEKS PRIOR TO THE CLOSURE. STREET OR LANE CLOSURE NOTIFICATION TO BE ISSUED BY THE CITY FIVE (5) DAYS PRIOR TO CLOSURE. THE CONTRACTOR SHALL COORDINATE CLOSURE WITH THE CITY TO ENSURE THE ABOVE DEADLINES ARE ACHIEVED.
13. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, MOVE, AND REMOVE ALL TRAFFIC CONTROL DEVICES ON THE PROJECT.
14. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS, WITH BOTH WRITTEN NOTICE AND PERSONAL CONTACT, WHEN ACCESS TO A PROPERTY WILL EITHER BE RESTRICTED OR NOT BE AVAILABLE DUE TO CONSTRUCTION ACTIVITIES.
15. NO FIELD MEASUREMENT SHALL BE MADE FOR THE TRAFFIC CONTROL BID ITEM. THE CONTRACTOR SHALL BE PAID THE LUMP SUM BID AMOUNT FOR TRAFFIC CONTROL.
16. SOME CONSTRUCTION MAY REQUIRE TEMPORARY LANE CLOSURES NOT SHOWN ON THE PLANS. REFER TO PART 6 OF THE MUTCD FOR STANDARD LANE CLOSURE SIGNAGE.
17. SIGNAGE MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE ENGINEER.
18. THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NONWORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER, AND THE CONTRACTOR SHALL PROVIDE A WRITTEN AGREEMENT WITH THE PROPERTY OWNER.

STAGING NOTES:

1. ROAD CLOSURE AT 4TH ST WATERMAIN EXTENSION SHALL LAST NO LONGER THAN 21 CALENDAR DAYS FROM START OF CLOSURE.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO SUNRISE POINTE ENTRANCE FOR DURATION OF PROJECT.
3. CONTRACTOR SHALL MAINTAIN BUSINESS ACCESS EAST OF VILAS RD.
4. CONTRACTOR SHALL MAINTAIN TWO WAY TRAFFIC PAST BULK WATER SALES SYSTEM CONSTRUCTION. IF LANE CLOSURE IS REQUIRED IT MAY ONLY BE DURING DAYLIGHT HOURS AND MUST BE REOPENED FOR TWO WAY TRAFFIC OVER NIGHT.
5. CONTRACTOR SHALL COMPLETE EITHER THE WATERMAIN EXTENSION OR THE BULK WATER SALES SYSTEM FIRST BEFORE STARTING THE OTHER.
6. ANY ADJUSTMENT TO THE STAGING/TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF STORM LAKE AND ENGINEER OF RECORD A MINIMUM OF TWO WEEKS IN ADVANCE.

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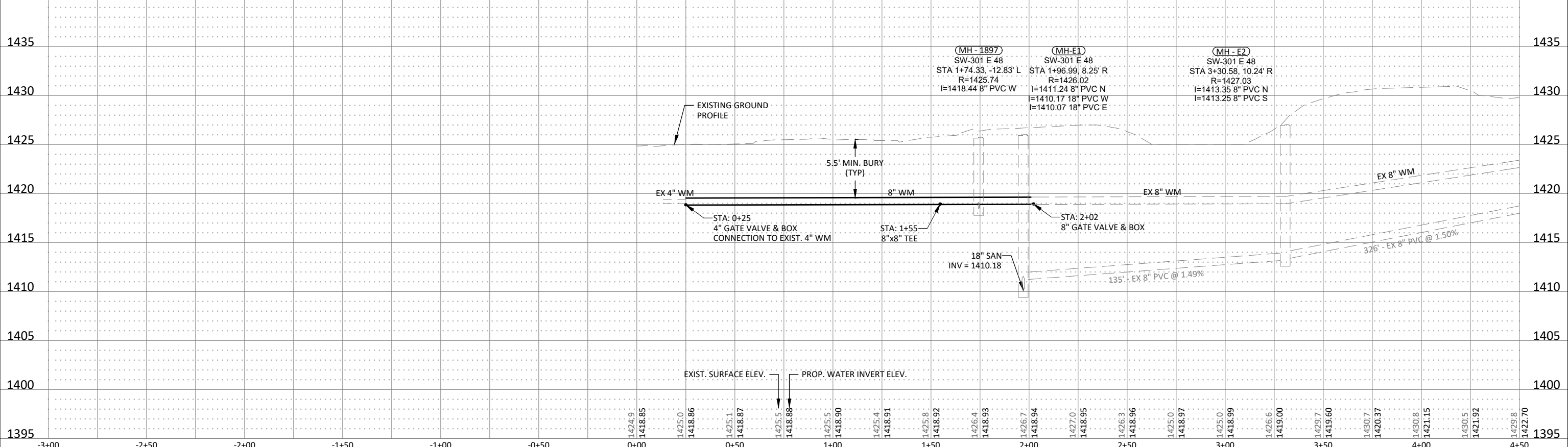
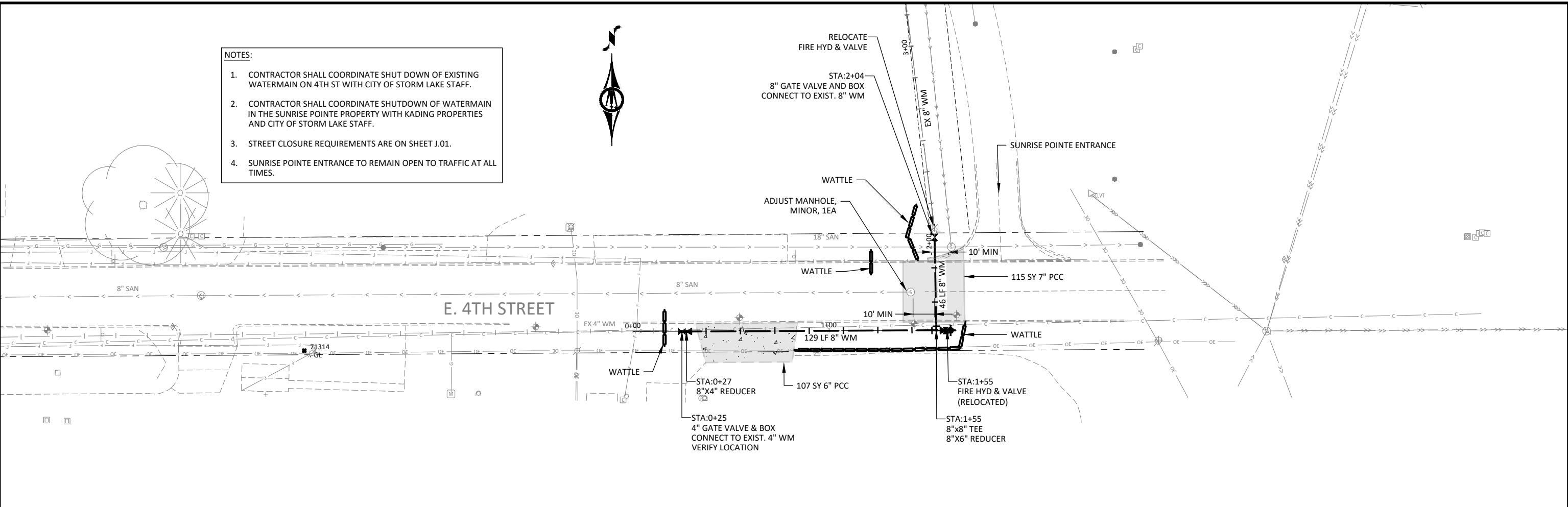
218 11TH STREET SW PLAZA
SPENCER, IOWA 51301
Phone: (712) 580-5075
Email: Spencer@bolton-menk.com
www.bolton-menk.com

DESIGNED	REV	DESCRIPTION	DATE
KMA	A	60% PLAN	12/10/21
KMA	B	90% PLAN	1/17/22
CHECKED	O	BID	02/15/22
JDL			
CLIENT PROJ. NO.			
OP1125220			

CITY OF STORM LAKE, IOWA
2022 4TH STREET WATERMAIN IMPROVEMENTS
STAGING AND TRAFFIC CONTROL

SHEET
J.01

- NOTES:
1. CONTRACTOR SHALL COORDINATE SHUT DOWN OF EXISTING WATERMAIN ON 4TH ST WITH CITY OF STORM LAKE STAFF.
 2. CONTRACTOR SHALL COORDINATE SHUTDOWN OF WATERMAIN IN THE SUNRISE POINTE PROPERTY WITH KADING PROPERTIES AND CITY OF STORM LAKE STAFF.
 3. STREET CLOSURE REQUIREMENTS ARE ON SHEET J.01.
 4. SUNRISE POINTE ENTRANCE TO REMAIN OPEN TO TRAFFIC AT ALL TIMES.



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HORIZ. SCALE FEET

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VERT. SCALE FEET

218 11TH STREET SW PLAZA
SPENCER, IOWA 51301
Phone: (712) 580-5075
Email: Spencer@bolton-menk.com
www.bolton-menk.com

DESIGNED	KMA	REV	DESCRIPTION	DATE
DRAWN	KMA	A	60% PLAN	12/10/21
CHECKED	JDL	B	90% PLAN	1/17/22
CLIENT PROJ. NO.	OP1125220	O	BID	02/15/22

CITY OF STORM LAKE, IOWA

2022 4TH STREET WATERMAIN IMPROVEMENTS

WATER PLAN AND PROFILE - 4TH ST

SHEET

M.01

ENGINEER'S ESTIMATE

2022 4TH STREET WATERMAIN IMPROVEMENTS
CITY OF STORM LAKE, IA
BMI PROJECT NO. 0P1.125220



Date: 2/15/2022

Item No.	SUDAS Spec No.	Item	Estimated Quantity	Unit	Unit Price	Total Amount
BASE BID						
1	2010-108-I-0	SUBBASE, MODIFIED, 6"	200	SQ YD	\$10.00	\$2,000.00
2	2010-108-J-3-a	REMOVAL OF KNOWN PIPE AND CONDUIT, WATERMAIN, 4"	175	LIN FT	\$10.00	\$1,750.00
3	3010-108-C-0	TRENCH FOUNDATION	10	TON	\$35.00	\$350.00
4	4010-108-E-0	SANITARY SEWER SERVICE STUB, PVC, 4"	68	LIN FT	\$75.00	\$5,100.00
5	4010-108-X-1	4" ON 4" SANITARY SEWER SERVICE WYE	2	EACH	\$100.00	\$200.00
6	4010-108-X-2	REMOVE RV DUMP STATION AND PIPE	1	LUMP SUM	\$500.00	\$500.00
7	5010-108-A-1	WATER MAIN, TRENCHED, DIP, 4"	36	LIN FT	\$45.00	\$1,620.00
8	5010-108-A-1	WATER MAIN, TRENCHED, PVC DR-18, 8"	180	LIN FT	\$65.00	\$11,700.00
9	5010-108-C-2	FITTINGS, DIP	181	POUND	\$10.00	\$1,810.00
10	5010-108-E-1	WATER SERVICE PIPE, 2"	10	LIN FT	\$25.00	\$250.00
11	5010-108-E-2	WATER SERVICE CORPORATION, 2" ON 4"	1	EACH	\$400.00	\$400.00
12	5010-108-E-3	WATER SERVICE CURB STOP AND BOX, 2"	1	EACH	\$1,000.00	\$1,000.00
13	5020-108-A-0	VALVE, GATE, 4"	1	EACH	\$1,600.00	\$1,600.00
14	5020-108-A-0	VALVE, GATE, 8"	1	EACH	\$2,000.00	\$2,000.00
15	5020-108-B-0	TAPPING SLEEVE AND VALVE ASSEMBLY, 4"	1	EACH	\$3,000.00	\$3,000.00
16	5020-108-C-0	FIRE HYDRANT ASSEMBLY SALVAGE AND RELOCATE	1	EACH	\$3,000.00	\$3,000.00
17	6010-108-E-0	MANHOLE ADJUSTMENT, MINOR	1	EACH	\$2,000.00	\$2,000.00
18	6010-108-G-0	CONNECTION TO EXISTING WATER MAIN	2	EACH	\$2,000.00	\$4,000.00
19	7010-108-A-0	PAVEMENT, PCC, 7"	115	SQ YD	\$70.00	\$8,050.00
20	7030-108-A-0	REMOVAL OF DRIVEWAY	168	SQ YD	\$7.00	\$1,176.00
21	7030-108-H-1	DRIVEWAY, PAVED, PCC, 6"	168	SQ YD	\$60.00	\$10,080.00
22	7040-108-H-0	CONCRETE REMOVAL	115	SQ YD	\$4.00	\$460.00
23	7070-108-B-1	AGGREGATE, CLASS A	65	TON	\$25.00	\$1,625.00
24	8030-108-A-0	TEMPORARY TRAFFIC CONTROL	1	LUMP SUM	\$5,000.00	\$5,000.00
25	9010-108-A-0	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING	0.1	ACRE	\$7,500.00	\$750.00
26	9040-108-F-1	WATTLE, WOOD, 9"	250	LIN FT	\$5.00	\$1,250.00
27	9060-108-D-0	REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK	20	LIN FT	\$30.00	\$600.00
28	11020-108-A-1	MOBILIZATION	1	LUMP SUM	\$24,000.00	\$24,000.00
29	12040-108-X-1	BULK WATER SALES PACKAGE	1	LUMP SUM	\$60,000.00	\$60,000.00
30	12040-108-X-2	CITY SHOP HYDRANT PLUMBING	1	LUMP SUM	\$20,000.00	\$20,000.00
31	12050-108-X-3	BOLLARD	5	EACH	\$750.00	\$3,750.00
ESTIMATED BASE BID TOTAL:						<u>\$179,021.00</u>

Staff Summary

3/7/2022

Agenda Item # 6.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Keri Navratil, City Manager

SUBJECT: **Resolution No. 64-R-2021-2022 Approving an Amendment to Agreement with Bolton & Menk, Inc. for Professional Services for Engineering Services for the FEMA BRIC Grant And FEMA HMA Project**

BACKGROUND: A potential source of project funding has been identified for potential Water and Wastewater Projects.

Building Resilient Infrastructure and Communities (BRIC) will support states, local communities, tribes and territories as they undertake hazard mitigation projects, reducing the risks they face from disasters and natural hazards. BRIC is a new FEMA pre-disaster hazard mitigation program that replaces the existing Pre-Disaster Mitigation (PDM) program.

The BRIC program guiding principles are supporting communities through capability- and capacity-building; encouraging and enabling innovation; promoting partnerships; enabling large projects; maintaining flexibility; and providing consistency.

At the Council meeting on December 6, 2021, an amendment to the agreement with Bolton and Menk, Inc. was approved for performing professional services for engineering for the FEMA BRIC grant funding opportunity.

At the time of the amendment, the estimated construction cost for many water and wastewater projects was \$88,903,990. Since that time, previously intended projects have been eliminated from the project scope resulting in the currently estimated construction cost of \$58,649,140.

With the extent of the wastewater scope reduction, a second

FEMA BRIC application is not viable. Rather, a grant application for FEMA Hazard Mitigation Assistance is a viable option to improve the City’s wastewater infrastructure. This grant opportunity is through the Iowa Homeland Security and Emergency Management Division.

This amendment to the professional services agreement will reduce engineering services associated with a change in the project scope. Such changes include individual project elements and a change in size, quantity, and location of various elements, resulting in the reduction to estimated costs in the HMA 22 submittal and thereby impacting professional services for preapplication, and design and construction engineering.

FISCAL IMPACT:

The proposed amendment reflects a reduction of \$3,581,862. Grant funding is 75% with a match of 25%.

RECOMMENDATION:

Approve Resolution No. 64-R-2021-2022 approving amendment No. 2 to the agreement with Bolton & Menk, Inc. for Professional Services for Engineering Services for the Building Resilient Infrastructure and Communities funding opportunity.

ATTACHMENTS:

Description		Type
▣	Agreement	Backup Material
▣	Resolution No. 64-R-2021-2022	Resolution

**CITY OF STORM LAKE, IOWA AND BOLTON & MENK, INC.
AMENDMENT TO AGREEMENT FOR PROFESSIONAL SERVICES**

AMENDMENT NO: 2 – FEMA HMA Projects

CLIENT: City of Storm Lake, Iowa

CONSULTANT: Bolton & Menk, Inc.

DATE OF THIS AMENDMENT: March 7, 2022

DATE OF MASTER AGREEMENT FOR PROFESSIONAL SERVICES: August 2, 2021

Whereas, CLIENT and CONSULTANT entered into a Master Agreement for Professional Services (“Master Agreement”) as dated above; and CONSULTANT agrees to perform and complete the following Services for CLIENT in accordance with this Amendment and the terms and conditions of the Master Agreement. CLIENT and CONSULTANT agree as follows:

1.0 Scope of Services:

CONSULTANT shall perform the Services listed within Exhibit A of the Master Agreement related to the revised scope listed below. All terms and conditions of the Master Agreement are incorporated by reference in this Amendment, except as explicitly modified in writing herein.

- The HMA 22 Projects will include the following project category:
 - Lift Station Improvements/Rehabilitation Projects
- The following project categories identified within Amendment 1 are unchanged:
 - Water Supply Projects (Wells Only)
 - Water Supply Projects (Raw Watermain)
 - Water Reclamation/Reuse Projects
 - Water Distribution Projects
 - Lift Station Improvements/Rehabilitation Projects
- The following project category identified within the Amendment 1 is not pursued as part of the HMA 22 Project:
 - Wastewater Nutrient Reduction Projects

(The Remainder of This Page Intentionally Left Blank)

The anticipated construction cost of all projects resultant of the revised scope is summarized below:

PROJECT CATEGORY	Estimated Construction Cost as of Amendment 2	Estimated Construction Cost as of Amendment 1
HMA 21 Projects		
Water Supply Projects (Wells Only)	\$14,004,000	\$14,004,000
Water Supply Projects (Raw Watermain)	\$2,394,190	\$2,394,190
Water Reclamation/Reuse Projects	\$9,115,000	\$9,115,000
Water Distribution Projects ¹	\$30,022,950	\$30,022,950
HMA 22 Projects		
Lift Station Improvements Projects ²	\$3,113,000	\$9,813,000
Wastewater Nutrient Reduction Projects	\$0	\$23,554,850
TOTALS	\$58,649,140	\$88,903,990

1. Water Distribution Projects as presented within Amendment 1 include: 18" watermain improvements and general watermain replacement improvements.

2. Lift Station Improvements Projects as presented within this amendment include: lift station improvements

The scope of Task 1 listed within Exhibit A of the Master Agreement is amended to include the following supplementary Services to be performed by CONSULTANT:

- Preparation of Facility Plan report to support the:
 - FEMA Hazard Mitigation Assistance funding application
 - DNR permitting process
- Flow monitoring of the Scout Park sewershed
- Hydraulic modeling analysis of the Scout Park sewershed for purposes of determining the probable benefit of the intended project and associated recurrence interval report preparation

2.0 Fees:

Due to a change in the aforementioned scope, including a change in individual project elements and a change in size, quantity and location of various elements, the estimated costs for the individual elements HMA 22 have changed, thereby impacting professional services for preapplication and design and construction engineering as follows:

CLIENT shall pay CONSULTANT in accordance with Section 3 of the Master Agreement and as follows. The fees shall be not to exceed the amounts presented.

TASK	DESCRIPTION	Amendment No. 2	Total Cost
1	Pre-Application Services	\$48,720	\$129,468
2	Design Engineering and Bidding Services	(\$1,815,291)	\$3,633,059
3	Construction Engineering Services	(\$1,815,291)	\$4,167,291
TOTALS		(\$3,581,862)	\$7,929,818

Each task as identified in the preceding fee table above shall be subject to independent authorization from the CLIENT before any work or costs may be incurred on that specific task.

3.0 Deliverables

Deliverables include those listed in the Master Agreement and are supplemented with the following as part of this Amendment:

- Facility Plan Report
- Scout Park Lift Station Flow Monitoring Information
- Scout Park Lift Station Recurrence Interval Report

4.0 Term

In the event that the Schedule for this Amendment extends beyond the term of the Master Agreement, either intentionally or unintentionally by Amendment Scope or by Amendment extension, then this Amendment shall operate to extend the Master Agreement through the completion of CONSULTANT'S obligations under this Amendment or until a new Amendment is executed incorporating this Amendment.

5.0 Other Matters

All terms and conditions of the Master Agreement are incorporated by reference in the Amendment, except as explicitly modified in writing herein. CONSULTANT will perform its services in compliance with the attached Exhibit C.

CITY OF STORM LAKE, IOWA

BOLTON & MENK, INC.

By: _____

By: Wesley W. Brown

Printed Name: Michael Porsch

Printed Name: Wesley W. Brown, P.E.

Title: Mayor

Title: Principal-in-Charge

ATTACHMENTS TO THIS TASK ORDER:

Exhibit C – Appendix to Part 200 – Contract Provisions for Non-Federal Entity Contracts Under Federal Awards

EXHIBIT C
APPENDIX II TO PART 200 –
CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS
UNDER FEDERAL AWARDS

FEMA HMA PROJECTS

CITY OF STORM LAKE, IOWA

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

(A) Contracts for more than the simplified acquisition threshold currently set at \$150,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

(B) All contracts in excess of \$10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement.

(C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of “federally assisted construction contract” in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, “Equal Employment Opportunity” (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41 CFR part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”

(D) Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland “Anti-Kickback” Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. * Not applicable for FEMA funded projects.

(E) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of “funding agreement” under 37 CFR §401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.

(G) Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended—Contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grants or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

(J) See §200.322 Procurement of recovered materials.

[78 FR 78608, Dec. 26, 2013, as amended at 79 FR 75888, Dec. 19, 2014]

RESOLUTION NO. 64-R-2021-2022

APPROVAL OF AN AMENDMENT OF THE AGREEMENT WITH ENGINEERING FIRM FOR PROFESSIONAL SERVICES FOR ENGINEERING ON THE FEMA BRIC AND FEMA HMA PROJECT

WHEREAS, the City of Storm Lake desires to apply for FEMA BRIC funding and potentially FEMA HMGP funding; and

WHEREAS, the City desires to have professional engineering services for the proposed project and therefore followed the Federal procurement guidelines as outlined by Iowa Homeland Security and FEMA guidance to solicit proposals from qualified engineering firms for the proposed project; and

WHEREAS, the City published notice of procurement for engineering services in the Storm Lake Times on June 18, 2021, and July 7, 2021, for such services; and

WHEREAS, the City published notice of procurement for engineering services with the Iowa League of Cities and on the City's website; and

WHEREAS, the City received three (3) proposals for engineering services from a qualified firm, and, following a review of the proposal the City has found that the submitted proposal is in line with the needs of the City; and

WHEREAS, the City on July 19, 2021, selected Bolton and Menk for engineering services for this project; and

WHEREAS, the City on August 2, 2021, entered into an agreement with Bolton and Menk for engineering services; and

WHEREAS, the City on December 6, 2021, approved an amendment to the agreement with Bolton and Menk for professional services for engineering for the FEMA BRIC grant funding opportunity.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, IOWA:

SECTION 1. The City Council approves an amendment to the engineering agreement with Bolton and Menk for engineering services for the FEMA BRIC grant funding opportunity to include the FEMA HMA grant funding opportunity.

PASSED AND APPROVED this 7th day of March 2022.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

Staff Summary

3/7/2022

Agenda Item # 7.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Keri Navratil, City Manager

SUBJECT: **Resolution No. 65-R-2021-2022 Approving Agreement with Simmering-Cory for Professional Services for Grant Administration Services for the FEMA HMA Grant**

BACKGROUND: On February 7, 2022 the City selected Simmering – Cory for grant writing assistance for the FEMA Hazard Mitigation Assistance funding application.

Subsequently, The City issued an RFP on two separate occasions, February 4, 2022 and February 18, 2022, seeking responses from qualified firms for Grant Administration Services related to the FEMA Hazard Mitigation Assistance funding for a series of projects to improve their wastewater infrastructure to mitigate hazards and reduce the impacts on the citizens of the City.

The Request for Proposals for Grant Administration Services was sent to prospective firms, placed on the City's website, and advertised in the newspaper. One response was received from Simmering-Cory for this RFP. Proposed costs are as follows:

FISCAL IMPACT: Fees will not exceed \$40,600.00 pursuant to proposal and may be reduced by reimbursement from the grant when applicable

RECOMMENDATION: Approve Resolution No. 65-R-2021-2022 Approving the agreement with Simmering-Cory for Professional Services for Grant Administration Services for the FEMA Hazard Mitigation Assistance funding opportunity in an amount not to exceed \$40,600.00

ATTACHMENTS:

Description	Type
□ Proposal For Grant Administration Services FEMA HMA Funding	Contract
□ Resolution No. 65-R-2021-2022	Resolution



March 2, 2022

Ms. Keri Navratil, City Manager
City of Storm Lake
620 Erie Street
Storm Lake, IA 50588

Ms. Navratil

I am pleased to submit to you Simmering-Cory's (SC) proposal for providing grant administration services for FEMA HMA funding of improvements to the City's wastewater systems. Based on past projects, SC is very familiar with the City of Storm Lake and the various projects that have occurred in the past regarding the water, stormwater, and wastewater systems. Our past history with the City makes us uniquely qualified to help the City put forth the best possible grant application. As City residents and local business owners we are interested in ensuring that the City's project is successful, economical, and completed on time. As such we feel that we can be a valuable partner to the City on this project.

In the following pages we have outlined our experience, project team, availability, and fees as requested in your request for proposals (RFP). If after reviewing our proposal should you have any questions, please do not hesitate to reach out to us.

Our understanding of the project is that the City is looking to make a significant application to IA Homeland Security for submission by the State under the FEMA HMA program in the next several months.

The Storm Lake project is focused on the following key infrastructure elements, including:

- The Storm Lake Wastewater Treatment System including collection and conveyance.

Our experience with a number of Community Development Block Grants (CDBG) projects and other FEMA projects, as well as our history of project implementation and management in previous roles has provided us with knowledge of these projects to help ensure that we are putting together the best application. We are also very familiar with IA Homeland Security.

SECTION 1 – CONSULTANT OVERVIEW

Simmering-Cory is a full-service planning agency that has been providing assistance to cities and counties in Iowa, for over 30 years, for a variety of grants, programs, and planning tools including FEMA, CDBG, DOT, Urban Renewal, Urban Revitalization, and comprehensive planning. The proposed project is part of the core services that SC performs for many cities and counties across the state. As part of our grant writing process, we work with a variety of state and federal agencies including Iowa Economic Development Authority, Iowa Department of Transportation, and Iowa Homeland Security to ensure that our clients' projects achieve the highest possible score on their applications. We also work with our clients on a number of private foundation grants to help secure funding for critical projects to help their communities grow and prosper.

Our knowledge of Storm Lake will help us efficiently and effectively work with staff to achieve the goals of this project. We are currently working with the City on a CDBG project for a sewer lift station and are going to be wrapping up the eight plus million-dollar Resiliency project which has a similar scope to the proposed

FEMA HMA project. We are also a local firm with roots to the community and a strong desire to see the City's project succeed on all levels.

We have also worked with the City of Storm Lake on other grant projects including the Highway 110 and Highway 7 Intersection, written and updated several urban renewal plans, and conducted blight assessments for the City. We are also the City's codification company.

The following members of the Simmering-Cory team will be assigned to this project:

- Jennifer Movall will be the lead contact for the City on this project and will work with the other SC team members to ensure that the project remains on schedule. Jennifer will also take the lead on the grant writing, project reporting, all financial reporting requirements that are part of the project, including reimbursement processes and verifying that project files are maintained in accordance with FEMA requirements. Jennifer's experience with the Cherokee FEMA BRIC application for the Beech Street Lift Station and her work with the City of Storm Lake's FEMA Hazard Mitigation Grant will provide the experience needed to work with FEMA and City staff to ensure the project runs smoothly and that all program requirements are met.
- Justin Yarosevich will be supporting Jennifer in the day-to-day management of the project. Justin's experience with project management including several large public infrastructure projects, and a National Disaster Resiliency Grant funded by HUD, and managed jointly by Iowa Homeland Security and IEDA, will help to provide the City with a successful project. Justin also worked with the City of Cherokee on their FEMA BRIC application and helped to write the City of Storm Lake's FEMA Hazard Mitigation Grant for significant improvements to the City's wastewater collection and treatment systems. Justin is currently administering the City of Storm Lake's CDBG grant for the Memorial Lift Station Project and the City's National Disaster Resiliency project.
- Melanie Mitchell, Grant Administrator, will provide assistance for the project with any issues related to environmental clearance and required public notices. Melanie's 30 years of experience working with cities on CDBG and other grant programs will be invaluable to the success of this project.

Both Jennifer and Justin have extensive experience working with IA Homeland Security and Carol Tomb, the City's FEMA Project Officer, as well as administering a number of federal and state grant projects including reporting requirements and financial management. We also have the experience and local knowledge to work with the City's selected engineering firm and Iowa Homeland Security to put together the best benefit cost analysis (BCA) for the project.

In addition to the larger projects, we also have worked with communities on smaller FEMA projects including hazard mitigation and disaster relief projects. These include a disaster relief project in Smithland, Iowa related to flooding of the City's Wastewater Treatment Plant, a Hazard Mitigation Project that includes FEMA and CDBG funding in Quimby, Iowa, and the relocation of Wescott Park which is a Hazard Mitigation Project in Cherokee, Iowa. We have also assisted the City of Cherokee in the administration of a residential buyout program due to flooding.

SC has worked with the following clients on similar projects and are provided as references.

Keri Navratil
City Manager, City of Storm Lake
620 Erie Street, Storm Lake, IA 50588
712.732.8000
navratil@stormlake.org

Diane McTeer
City Clerk, City of Smithland

P.O. Box 187, Smithland, IA 51056
712.884.2266
smithlnd@wiatel.net

Eric List
City Administrator, City of Cherokee
416 W. Main Street, Cherokee, IA 51012
712.225.5749
administrator@cherokeeiowa.net

SECTION 2 – AVAILABILITY

We pride ourselves on providing communities with responsive, responsible service to achieve their desired results in a timely manner. We have reviewed the project scope and we have time available in our schedules to work specifically on this project so we can meet the timeline as outlined. With our past work on FEMA projects, we have developed close working relationships with Iowa Homeland Security staff, so we are very familiar with what is expected from them and because of our knowledge of the FEMA BRIC program we know that the City needs a grant writer and administrator who is ready to hit the ground running immediately upon the award of a project and funding.

SECTION 3 – FEES

Simmering Cory is proposing to conduct services related to this application under an hourly rate of \$80.00/hour. This is a discount of \$20.00 per hour from our normal hourly rate.

Grant Administration

We are qualified and prepared to provide services post award to the City to include services related to Grant Administration. The services outlined below are all eligible for FEMA cost share at 85% of the values provided and actually billed.

	Budgeted Hours	Hourly Rate	Total Cost for Function
Procurement Assistance For Various Needed Consultants (I.E. Phase 1 Archeological Services)	20 hours	\$80.00	\$1,600.00
Reporting Requirements	30 hours	\$80.00	\$2,400.00
Financial Management and Draws	40 hours	\$80.00	\$3,200.00
Environmental Assessment *	160 hours	\$80.00	\$12,800.00
508 Compliant Sub Consultant	40 hours	\$150.00	\$6,000.00
Davis-Bacon Compliance Monitoring **	100 hours	\$50.00	\$5,000.00
Coordination with IA Homeland Security	40 hours	\$40.00	\$1,600.00
General Grant Administration Services	100 hours	\$80.00	\$8,000.00
		Total Cost of Services	\$40,600.00

*Once the project is determined and awarded, we will have a better idea of the need for an environmental assessment (EA). FEMA EA's are significant and must comply with FEMA guidelines and be 508 Compliant. We are budgeting for potentially two EA's with multiple sites, if the City ends up with one project with multiple sites this cost should be less. If it is determined that an EA is not needed this cost will be zero.

**Currently Davis-Bacon is not a requirement of FEMA funding; however, the guidelines for the FY 22 HMA could result in the need to monitor contractor wages for compliance with federal Davis-Bacon guidelines. As

such we are providing a price for Davis-Bacon compliance monitoring in the event it is needed for these projects. If it is not needed the line item will not be used.

For services related to Grant Administration we are proposing a not-to-exceed amount of \$40,600.00.

We are open to discussions with the City regarding ways to limit the costs outlined above depending on what City staff has the time and ability to handle and what they would desire us to handle for them. The costs outlined are built around the need to provide a not-to-exceed number in which we do not have to come back to the City for change orders during the project.

SC will provide a detailed monthly billing statement. Payment would be due within 30 days of the date of the invoice unless other arrangements have been made.

Thank you for your consideration of our proposal. If you have any questions, please feel free to contact me at 641.355.4073 or jennifer@sc-ic.com.

Sincerely,



Jennifer Movall
Vice President
Simmering Cory | Iowa Codification

RESOLUTION NO. 65-R-2021-2022

**A RESOLUTION AWARING GRANT ADMINISTRATION
SERVICES FOR A FEMA HAZARD MITIGATION
ASSISTANCE APPLICATION**

WHEREAS, the City of Storm Lake desires to apply for FEMA HMA funding, and

WHEREAS, the City desires to have professional grant administration services for the proposed project and therefore followed the Federal procurement guidelines as outlined by Iowa Homeland Security and FEMA guidance to solicit proposals from qualified grant writers and administrators for the proposed project, and

WHEREAS, the City published notice of procurement for grant administration services in the Storm Lake Pilot Tribune on February 4, 2022, and February 18, 2022, for such services, and

WHEREAS, the City received one proposal for grant administration services from a qualified firm, and, following a review of the proposal the City has found that the submitted proposal is in line with the needs of the City.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, IOWA:

SECTION 1. The City Council selects the proposal of Simmering-Cory for grant administration services.

PASSED AND APPROVED this 7th day of March 2022.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

Staff Summary

3/7/2022

Agenda Item # 8.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Keri Navratil, City Manager

SUBJECT: **Resolution No. 66-R-2021-2022 Approving Joint City/County Agreement**

BACKGROUND: Buena Vista County has proposed to establish the Platinum Urban Renewal Area within two miles of the City of Storm Lake. Iowa Code Section 403.17(4) requires a "joint agreement" between the City and County. The proposed Urban Renewal Area will not affect any City taxing authority.

FISCAL IMPACT: There is no fiscal impact by approving this resolution

RECOMMENDATION: Approve Resolution No. 66-R-2021-2022 Approving Joint City/County Agreement.

ATTACHMENTS:

Description	Type
☐ Resolution No. 66-R-2021-2022	Resolution
☐ Joint City/County Agreement	Contract
☐ Platinum Crush - Nick Bowdish Letter	Backup Material
☐ Platinum Crush - Kelly Evans Letter	Backup Material

RESOLUTION NO. XX-R-2021-2022

EXHIBIT D

JOINT CITY/COUNTY AGREEMENT

WHEREAS, the County of Buena Vista (the"County") has proposed to establish the Platinum Urban Renewal Area within two miles of the City of Storm Lake, State of Iowa, for the purpose of participating in proposed urban renewal projects; and

WHEREAS, the City Council of the City of Storm Lake, State of Iowa, has reviewed the Platinum Urban Renewal Plan for said Area and has determined that the proposed Area and completion of the eligible projects are in the best interests of the City of Storm, State of Iowa; and

WHEREAS, Iowa Code Section 403.17(4) requires a "joint agreement" between the City and the County before the County can proceed with said project.

NOW THEREFORE, BUENA VISTA COUNTY, STATE OF IOWA AND THE CITY OF STORM LAKE, STATE OF IOWA, AGREE AS FOLLOWS:

1. The City Council of the City of Storm Lake, State of Iowa hereby agrees and authorizes the County of Buena Vista, State of Iowa, to proceed with the Platinum Urban Renewal Area as described in the Platinum Urban Renewal Plan, and the undertaking of the eligible urban renewal projects therein within two miles of the City of Storm Lake.
2. This "joint agreement" is intended to meet the requirements of Iowa Code Chapter 403.17(4) with respect to the Platinum Urban renewal Area in the County of Buena Vista, State of Iowa, with two miles of the City of Storm Lake, State of Iowa.
3. This Joint Agreement has been duly authorized by the governing bodies Buena Vista County, State of Iowa and the City of Storm Lake, State of Iowa.

PASSED AND APPROVED THIS 7TH DAY OF MARCH, 2022,

CITY OF STORM LAKE, STATE OF IOWA

Michael Porsch, Mayor

ATTEST:

Mayra A Martinez, City Clerk

STATE OF IOWA)
)SS
COUNTY OF BUENA)
VISTA

On this _____ day of March, 2022, before me a Notary Public in and for said _____ County, personally appeared _____ and _____ to me personally known, who being duly sworn, did say that they are the Mayor and City Clerk, respectively, of the City Storm Lake, State of Iowa, a Municipal Corporation, created and existing under the laws of the State of Iowa, and that the seal affixed to the foregoing instrument is the seal of said Municipal Corporation, and that said instrument was signed and sealed on behalf of said Municipal Corporation by authority and resolution of its City Council, and said Mayor and City Clerk acknowledged said instrument to be the free act and deed of said Municipal Corporation by it voluntarily executed.

Notary Public in and for Buena Vista County,
Iowa

EXHIBIT D

JOINT CITY/COUNTY AGREEMENT

WHEREAS, the County of Buena Vista (the "County") has proposed to establish the Platinum Urban Renewal Area within two miles of the City of Storm Lake, State of Iowa, for the purpose of participating in proposed urban renewal projects; and

WHEREAS, the City Council of the City of Storm Lake, State of Iowa, has reviewed the Platinum Urban Renewal Plan for said Area and has determined that the proposed Area and completion of the eligible projects are in the best interests of the City of Storm Lake, State of Iowa; and

WHEREAS, Iowa Code Section 403.17(4) requires a "joint agreement" between the City and the County before the County can proceed with said project.

NOW THEREFORE, BUENA VISTA COUNTY, STATE OF IOWA AND THE CITY OF STORM LAKE, STATE OF IOWA, AGREE AS FOLLOWS:

1. The City Council of the City of Storm Lake, State of Iowa hereby agrees and authorizes the County of Buena Vista, State of Iowa, to proceed with the Platinum Urban Renewal Area as described in the Platinum Urban Renewal Plan, and the undertaking of the eligible urban renewal projects therein within two miles of the City of Storm Lake.

2. This "joint agreement" is intended to meet the requirements of Iowa Code Chapter 403.17(4) with respect to the Platinum Urban Renewal Area in the County of Buena Vista, State of Iowa, within two miles of the City of Storm Lake, State of Iowa.

3. This Joint Agreement has been duly authorized by the governing bodies Buena Vista County, State of Iowa and the City of Storm Lake, State of Iowa.

PASSED AND APPROVED this _____ day of _____, 202__.

CITY OF _____, STATE OF IOWA

Mayor

ATTEST:

City Clerk

STATE OF IOWA)
) SS
COUNTY OF BUENA)
VISTA

On this _____ day of _____, 202__, before me a Notary Public in and
for said County, personally appeared _____ and
_____ to me personally known, who being duly sworn, did say that they
are the Mayor and City Clerk, respectively, of the City of _____, State of Iowa, a Municipal
Corporation, created and existing under the laws of the State of Iowa, and that the seal affixed to
the foregoing instrument is the seal of said Municipal Corporation, and that said instrument was
signed and sealed on behalf of said Municipal Corporation by authority and resolution of its City
Council, and said Mayor and City Clerk acknowledged said instrument to be the free act and deed
of said Municipal Corporation by it voluntarily executed.

Notary Public in and for Buena Vista County,
Iowa

Nelda Kirkholm

Subject: FW: Platinum Crush Intended Water Withdrawal

-----Original Message-----

From: Nick Bowdish <nick@nbowdishcompany.com>

Sent: Monday, March 7, 2022 12:45 PM

To: Kelly Evans <kelly.evans@dcgengr.com>

Cc: Keri Navratil <Navratil@stormlake.org>; Mike Kinley <Mkinley@midiowacoop.com>; Kathy Showalter <kshowalter@planscapepartners.com>

Subject: Re: Platinum Crush Intended Water Withdrawal

The Storm Lake City Council and City management team has my commitment.

Thank you, Keri.

Nick Bowdish

Sent from my iPhone

> On Mar 7, 2022, at 12:18 PM, Kelly Evans <kelly.evans@dcgengr.com> wrote:

>

>

> Keri,

>

> Per our phone conversation this morning between yourself, Platinum Crush, and myself; Platinum Crush intends to withdraw water from the Dakota aquifer only if there's no interference between the Storm Lake & Alta wells and the Platinum Crush wells. A pump test will be required to monitor any interference. If the pump test does indeed show interference, the facility intends to go to the Jordan aquifer instead. Their intention is to obtain the water they need while simultaneously not impact the cities of Storm Lake nor Alta.

>

> Thank you,

Nelda Kirkholm

Subject: Platinum Crush Intended Water Withdrawal

From: Kelly Evans <kelly.evans@dcgengr.com>
Sent: Monday, March 7, 2022 12:18 PM
To: Keri Navratil <Navratil@stormlake.org>
Cc: Nicholas Bowdish <nick@nbowdishcompany.com>
Subject: Platinum Crush Intended Water Withdrawal

Keri,

Per our phone conversation this morning between yourself, Platinum Crush, and myself; Platinum Crush intends to withdraw water from the Dakota aquifer only if there's no interference between the Storm Lake & Alta wells and the Platinum Crush wells. A pump test will be required to monitor any interference. If the pump test does indeed show interference, the facility intends to go to the Jordan aquifer instead. Their intention is to obtain the water they need while simultaneously not impact the cities of Storm Lake nor Alta.

Thank you,

Staff Summary

3/7/2022

Agenda Item # 9.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: David Derragon, Assistant City Manager

SUBJECT: **Motion to Approve the FY 2026 FAST Act Application for Oneida Street Reconstruction Phase 2 Project**

BACKGROUND: The City of Storm Lake receives Federal Transportation allocations which are administered by the Northwest Iowa Planning and Development Commission. Comprised of 9 counties and the associated cities within, this organization requires an application process for determining funding priorities within the region. The City of Storm Lake is making an application to replace Oneida from East Railroad Street to Lakeshore. This would be a complete reconstruction of the paving surface with complete upgrades to the storm sewer, water, and sanitary sewer systems.

The grant application requests 50% funding for the paving and storm water improvements, or \$1,140,000 of the total estimated cost of \$2,280,000.

FISCAL IMPACT: The total project cost, including engineering, is expected to be \$3,918,000. Of this amount, \$1,140,000 will be using local match money funded from Road Use, Franchise Fee, and LOST funds. The City of Storm Lake is requesting FAST Act funds in the amount of \$1,140,000 with this application.

RECOMMENDATION: Move to Authorize the Mayor and City Clerk to sign the application and submit to the Northwest Iowa Planning and Development Commission

ATTACHMENTS:

Description	Type
□ Grant Application	Backup Material

LYON	OSCEOLA	DICKINSON	EMMET
SIOUX	O'BRIEN	CLAY	PALO ALTO
		BUENA VISTA	

REGION III

REGIONAL SURFACE TRANSPORTATION

APPLICATION

2023-2026 Regional Transportation Improvement Program Years

Application Produced by: The Northwest Iowa Planning & Development Commission

APPLICATION FOR REGION III TRANSPORTATION PROJECTS

Complete and return the original plus copy to: Ted Kourousis, Executive Director, NWIPDC

P.O. Box 1493, Spencer, Iowa 51301 by 4:30 p.m. **3/25/2022**

(Fully executed applications will be accepted electronically: **ted.kourousis@nwipdc.org** Do not send maps larger than 8.5" x 14" legal size paper)

1. Project Name: Oneida Street Reconstruction – Phase 2		Date: 3/7/2022	
2. Contact Person: David M Derragon, Assistant City Manager		Phone Number: 712-732-8000	
3. Address of Contact Person PO Box 1086	City Storm Lake	County Buena Vista	Zip Code 50588
4. Project Sponsor (lead entity if multi-jurisdictional) City of Storm Lake		Sponsor Signature	

5. Classification of Project: (check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Highway | <input type="checkbox"/> Transit |
| <input checked="" type="checkbox"/> Construction, reconstruction
resurfacing, restoration, and
rehabilitation | <input type="checkbox"/> Capital Costs for
transit projects |
| <input type="checkbox"/> Highway safety improvements
Capital and operating costs for traffic
management and control | <input type="checkbox"/> Surface Trans.
planning for transit
technology transfer
activities |
| <input type="checkbox"/> Surface Transportation planning, highway
And research and development | |
| <input type="checkbox"/> Operational Improvements | |
| <input type="checkbox"/> Fringe and corridor parking facilities | |
| <input type="checkbox"/> Most transportation control measures in
The Clean Air Act | |
| <input type="checkbox"/> Development and establishment of
management system | |

6. Please describe the proposed project within the space provided.

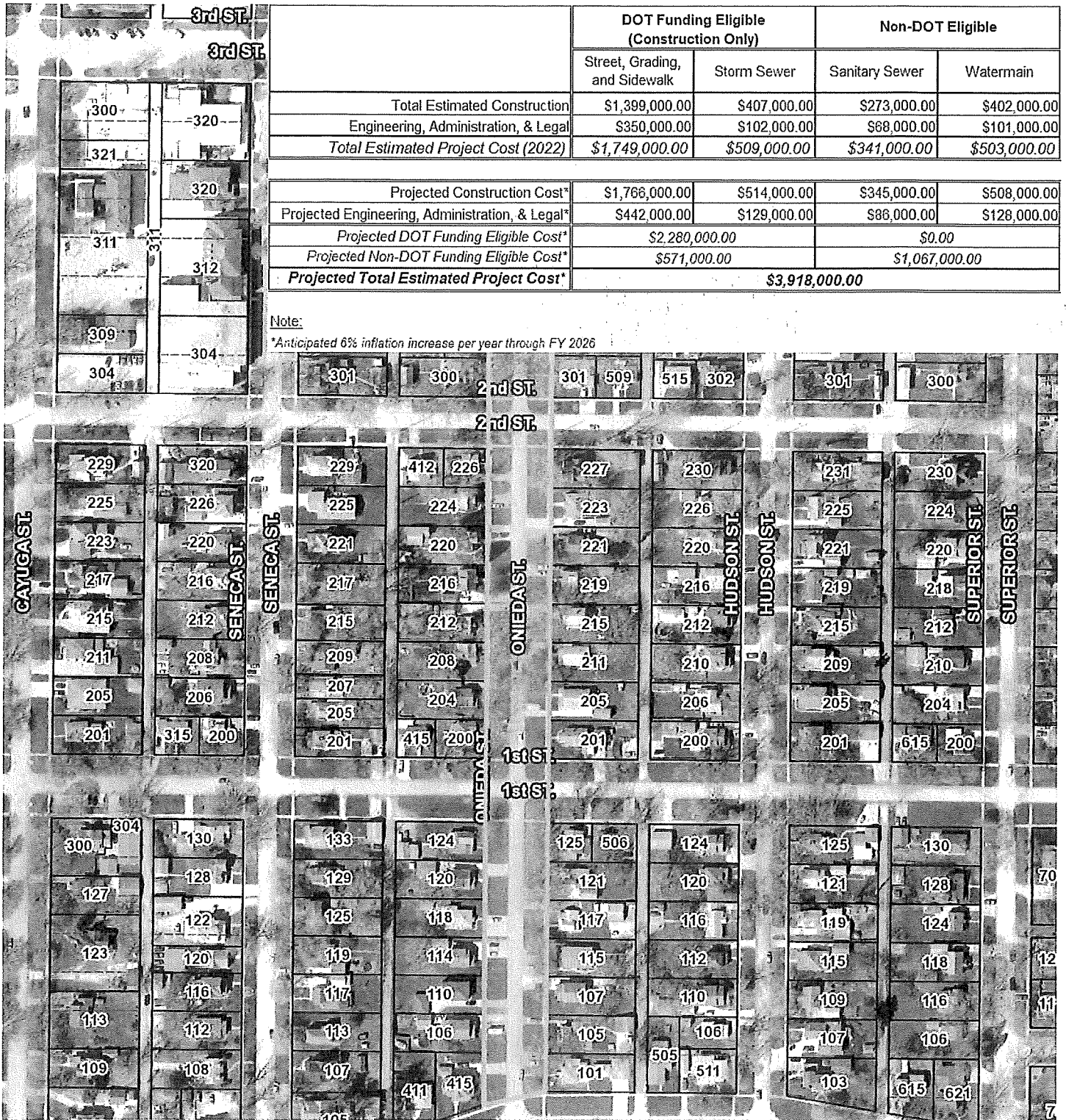
This project involves the reconstruction of Oneida Street from East Railroad Street to Lakeshore om the City. Project includes removal and replacement of a 70+ year old collector street in a 100 foot right of way with a new roadway designed to carry the current traffic loading. The roadway is beyond its useful life and requires substantial patching and other repairs yearly. The corridor has heavy commercial and industrial users along its west side with dependence on good infrastructure to serve its clients. The roadway is also a main north-south corridor that connects the schools with the main residential areas of the community. Businesses located along the roadway include service companies such as a feed mill with scales that service Hillshire and Tyson Foods and the School Transportation Fleet Facility. This road also serves as a primary north – south route for public safety services. The project will consist of removal and replacement of approximately 1800 feet of 31 foot wide roadway with replacement using a 31 foot wide PCCC pavement, 8" thick on a modified subgrade with subdrains. The total project cost is approximately \$3,918,000, including watermain and sanitary sewer improvement. The city applying for 50% funding in the amount of \$1,140,000 for the roadway and storm water portion of the project which totals \$2,280,000. Other improvements to be financed by the city include water main and sanitary sewer improvements along with the engineering costs. Total city investment into the project is \$2,778,000. No easement or right of way acquisition is anticipated with the project.

7. Please provide a brief description of the project area. Include a map with the area marked (please do not enclose and color maps or maps larger than 8.5" x 14" (legal size) paper

Oneida Street is a main north – south corridor in the city that runs from 13th Street on the north side of the city to the lake on the south. The roadway serves as a collector roadway in the community and is a main route for public safety services. See attached map of the city.

8. Project Budget

EXPENSES		REVENUE		
ITEM	COST	SOURCE	AMOUNT	%
Land/Site Acquisition Costs		Regional	\$1,140,000	29%
Construction/Materials Costs	\$2,280,000	Local	\$2,778,000	71%
Engineering/Consulting Costs	\$571,000			
Capital Acquisition				
explain:				
Other (expl.)				
Non-DOT Eligible Costs: \$1,067,000				
Water Main - \$508,000				
Sewer \$345,000				
Engineering - \$214,000				
TOTAL COST	\$3,918,000	TOTAL COST	\$3,918,000	



0 200 Feet



**BOLTON
& MENK**

Real People. Real Solutions.

Disclaimer:

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information, and data located in various city, county, and state offices, and other sources affecting the area shown, and is to be used for reference purposes only. The City of Storm Lake is not responsible for any inaccuracies herein contained.



Oneida Street

9. Work plan and schedule for project completion (please be sure to coincide the work plan with the correct federal fiscal year, fiscal year for this cycle is 2023-2026(Federal fiscal year is October 1-September 30)

The proposed schedule for the improvements anticipated to be construction in the CY 2026 follows: 1) Design Phase May 2025 to October 2025; 2) Letting December 2024 – January 2026; 3) Construction April 2026 to September 2026; 4) Project Closeout October 2026 – December 2026.

10. Is there a need to coordinate with another entity in the programming and/or implementation of this project?

☐ Yes

☒ No

If yes, list other entities involved and describe the interaction needed and coordination to date.

QUESTIONS 11-13 ARE FOR HIGHWAY PROJECTS ONLY

11. If applicable, what is the Average Daily Traffic of the proposed project?

850

12. If applicable, what is the Federal Functional Classification(s) of the route within the proposed project?

Collector

13. If applicable, what are the basic roadway sufficiency numbers for the route within the proposed project?

Unknown

PROJECT CHECKLIST

14. The following items are required		Note: Applications must specifically and directly answer each criterion within the space provided to receive points. Pertinent attachments are allowed such as maps, drawings, and/or photos as long as they are reproducible
<input checked="" type="checkbox"/>	Project Description	
<input checked="" type="checkbox"/>	Project Location Map (reproducible)	
<input checked="" type="checkbox"/>	Project Budget	
<input checked="" type="checkbox"/>	Project work plan with schedule	

Please fill in the following appropriate blanks:

We, the City of Storm Lake Support, this application for Oneida Street Reconstruction – Phase 2
(City, County or State) (Project Name)
by submitting this application, Regional FAST Act

funds in the amount of \$1,140,000 are requested. This project has the support of local match

funding of \$2,778,000, which is 71% of the anticipated project costs.

BY: _____
Michael Porsch, Mayor

ATTEST: _____
Mayra Martinez, City Clerk

Staff Summary

3/7/2022

Agenda Item # 10.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM:

SUBJECT: **City Council Requested Items**

BACKGROUND: Future City Council Work Sessions:
1.

FISCAL IMPACT: No Fiscal Impact at this time.

RECOMMENDATION: Concurrence for each item to be considered for a specified City Council Meeting work session or deny work session consideration for the following items:
1. None at this time