

**CITY OF STORM LAKE
REGULAR COUNCIL MEETING, CITY HALL
COUNCIL CHAMBERS
APRIL 18, 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. **Run for Our Future 5k, 10k & Half Marathon Request**
 - D. **BVU Noise Variance Request Buenafiction**
 - E. **SLPD City Code Enforcement Summary**
- 3. **2021 BEST of Iowa Annual Report**
- 4. **Motion Setting A Public Hearing On A Proposed Text Amendment to the Storm Lake Zoning Ordinance To Permit Kennels in the GI Zoning District**
- 5. **Motion to Approve Submittal for the Iowa Local Fire Protection & Emergency Medical**

Services Grant

6. **Motion Setting A Public Hearing on Ordinance Changing Water and Sewer Rates**
7. **Motion Setting Public Hearing On Fiscal Year 2021-2022 Budget Amendment**
8. **Public Hearing for the 2022 4th Street Watermain Improvements Plans, Specifications, and Form of Contract**
9. **Resolution No. 71-R-2021-2022 Adopting Plans, Specifications, Form Of Contract, Estimate Of Cost, Accepting Bids And Awarding Contract For The 2022 4th Street Watermain Project**
10. **Motion Approving Agreement with ISG for W. 6th Street Utilities Extension**
11. **City Council Requested Items**
12. 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

4/18/2022

Agenda Item # B.



City of Storm Lake
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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

4/18/2022

Agenda Item # C.



City of Storm Lake
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REPORT TO: Honorable Mayor and City Council

FROM:

SUBJECT: Disclosure by City Council Members

BACKGROUND:

FISCAL IMPACT:

RECOMMENDATION:

Staff Summary

4/18/2022

Agenda Item # A.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
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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 April 4, 2022 City Council Minutes
- Acknowledge the Library March 2022 Minutes
- Acknowledge the Airport March 2022 Minutes
- Approve Renewal Liquor Licenses for Valentina's, and La Isla Restaurant 2
- Approve Tax Abatement for 94 N Emerald Drive #13 and #14 - Brash LLC
- Approve of Acquisition by Purchase of Land From Ballou Holdings LLC for the Hwy 7/110 Project
- Approve Run For Our Future 5K, 10K, & Half Marathon
- Approve BVU Noise Variance Request Buenafiction
- Approve the SLPD Code Enforcement Summary (see staff summary)

FISCAL IMPACT: The City will pay the following expenditures:

- List of Bills - - \$682,477.02
- King's Pointe & Sunrise Pointe Golf Course Bills -- \$105,285.27

The City will receive the following revenues:

- Liquor License Renewal Fees -- \$1,145.00

RECOMMENDATION: Approve Consent Agenda

ATTACHMENTS:

Description

Type

📁	List of Bills	List of Bills
📁	King's Pointe Claims	List of Bills
📁	Minutes - April 4, 2022	Contract
📁	Library Minutes - March 2022	Minutes
📁	Airport Minutes - March 2022	Minutes
📁	Valentina's Liquor Application 2022	Application
📁	La Isla Restaurant 2 Liquor Application 2022	Application
📁	La Isla Restaurant 2 Liquor Report 2022	Backup Material
📁	Tax Abatement Application - 94 N Emerald Dr #13 & #14 - Brash LLC	Backup Material
📁	Contract Purchase From Ballou Holdings	Contract



Storm Lake, IA

My Buy Local_v1

Payment Date Range: 04/07/2022 - 04/20/2022

Vendor Name	Buy Local Info	Payable Description	Total Payments
BVC			
Control System Specialists, LLC	BVC	Relief Valve Installation	1,668.64
RR Electric LLC	BVC	Light & Beacon Repairs- Less Tax	581.26
Mike's Electronics Inc	BVC	Influent Valve Service	1,956.18
Essential Ellison LLC	BVC	Annual Fire Extinguisher Testing	296.16
Mike's Electronics Inc	BVC	Day Bin Service	400.00
Buena Vista County Attorney	BVC	July-Dec 2021 Collection Services	165.25
Mike's Electronics Inc	BVC	Blower #3 Repairs	285.00
Essential Ellison LLC	BVC	Annual Extinguisher Inspections	126.56
Buena Vista County Solid Waste	BVC	Recycling	220.48
Mike's Electronics Inc	BVC	Well 7 Repairs	105.00
Buena Vista County Solid Waste	BVC	Recycling	104.00
Alan Slight	BVC	6/11/2022 Testing Proctor	75.00
Essential Ellison LLC	BVC	Annual Extinguisher Inspections	57.99
Buena Vista County Solid Waste	BVC	Recycling	45.24
BVC Total:			6,086.76
Contract/Agreement			
Community Education Dept	Contract/Agreement	3rd Qtr FY2022 Agreement	18,901.08
I & S Group, Inc	Contract/Agreement	Downtown Master Plan Goals	9,750.00
Bolton & Menk, Inc	Contract/Agreement	Construction Admin	23,601.25
Power Solutions, Inc	Contract/Agreement	Regatta Repairs	5,625.78
Bolton & Menk, Inc	Contract/Agreement	Design & Bidding Services	15,096.50
I & S Group, Inc	Contract/Agreement	MCC Construction Admin	768.51
Power Solutions, Inc	Contract/Agreement	Switch Installation	99.33
Contract/Agreement Total:			73,842.45
Local			
Growmark, Inc	Local	Fuel	13,763.92
Alliant Energy	Local	Gas Services	10,374.19
Jim Bartholomew	Local	Airport Contract April 2022	5,783.97
Stanton Electric, Inc	Local	Lighthouse Repairs	4,650.11
Rebnord Technologies, Inc	Local	IT Service Agreement	3,583.12
Verizon Wireless Services LLC	Local	Cell Phone Service	3,509.80
Wiese Plumbing & Heating, Inc	Local	Water Cooler Installation	2,586.70
Central Bank	Local	Services	1,813.42
Buena Vista Regional Medical Center	Local	2/28/2022 Kapriel Physical	1,633.00
Long Lines	Local	Fax Line & Emergency Line Service	1,517.12
Philip E Havens	Local	Legal Services	1,166.67
Buena Vista Regional Medical Center	Local	2/24/2022 Espana Physical	3,481.00
Storm Lake Industrial Corporation	Local	SL Bucks	990.00
King's Pointe Resort	Local	3.22.22 Downtown Master Plan Meeting	1,939.50
Larson Oil & Distributing Co, Inc	Local	Propane	689.70
Michael P. Reinert	Local	Steel Materials	600.00
Melanders TV & Appliances	Local	Freezer	599.00
Edwards Storm Lake	Local	2 Tires	539.12
Rolloff Dumpster Rental of Iowa Inc	Local	Dumpster Rental	537.90
North Lake Truck Repair	Local	Filter	411.83
Storm Lake Hydraulics Co, Inc	Local	Couplers	390.20
Rebnord Technologies, Inc	Local	Toner	369.95
McCrea Enterprises	Local	Paint	328.75
A & A Automotive	Local	Fuel Leak Repairs- Less Tax	325.02
Storm Lake Ace Hardware	Local	Supplies	294.25
Buena Vista Regional Medical Center	Local	2/2/2022 Inthongsay Testing	244.00
Fastenal Company	Local	Grease	216.07
Rust Publishing NWIA, LLC	Local	March 2022 Publications	198.44

My Buy Local_v1

Payment Date Range: 04/07/2022 - 04/20/2022

Vendor Name	Buy Local Info	Payable Description	Total Payments
Visual Edge Inc	Local	Copier Maintenance Agreement	185.86
Dianne Johnson	Local	Bd & Disp Dogs	170.00
Graham Tire	Local	Tire Replacement	163.96
Michael Rust	Local	Muck Boots- Manh	144.95
Qwest Corporation	Local	Phone Service	135.09
Vetter Equipment	Local	Supplies	134.00
Graham Tire	Local	Tire Repair	128.52
Reding's Gravel & Excavating Co., Inc	Local	Scale Fees	117.00
Buena Vista Regional Medical Center	Local	2/28/2022 Kapriel Test	105.00
Visual Edge Inc	Local	Copier Maintenance Agreement	85.64
Plumbing & Heating Wholesale, Inc	Local	Snack Shack Supplies	84.37
Storm Lake Hydraulics Co, Inc	Local	Couplers	83.46
Marilyn Fields	Local	6/11/2022 6/11/2022 Testing Proctor	75.00
Dennis R Julius	Local	Entrance Mat Services	74.35
Buena Vista Regional Medical Center	Local	3/3/2022 Keokham Testing	142.00
Plumbing & Heating Wholesale, Inc	Local	Filters	68.02
O'Reilly Automotive Inc	Local	Oil	65.97
Dennis R Julius	Local	Laundry Services	63.05
The Bridge of Storm Lake	Local	Supplies	60.34
Kelly Johnson	Local	Feb/March 2022 Punches	60.00
Visual Edge Inc	Local	Copier Maintenance Agreement	59.27
Fareway Stores, Inc	Local	Supplies	56.94
Fastenal Company	Local	Grease Gun	55.02
Visual Edge Inc	Local	Copier Maintenance Agreement	53.44
A & A Automotive	Local	Service- Less Tax	52.58
Iowa Office Supply Inc	Local	Supplies	40.77
Visual Edge Inc	Local	Copier Maintenance Agreement	38.64
Storm Lake Bakery	Local	Supplies	30.30
Visual Edge Inc	Local	Copier Maintenance Agreement	27.68
Culligan Water Storm Lake	Local	Water	33.00
Plumbing & Heating Wholesale, Inc	Local	Plug	20.78
Iowa Office Supply Inc	Local	Supplies	11.42
Plumbing & Heating Wholesale, Inc	Local	Snack Shack Supplies	0.99

Local Total: 65,164.16

Non-Local

Godbersen-Smith Construction Co., Inc	Non-Local	Pay #1 Hwy 7/110 Intersection	155,200.00
Koloni, Inc	Non-Local	Summer Rec Equipment	89,050.00
Eastern Aviation Fuels, Inc	Non-Local	Jet Fuel	48,570.87
Munters Corporation	Non-Local	Down on Quote CS2204060112	14,075.00
Municipal Supply, Inc	Non-Local	Ally Meters	9,900.00
Ed M. Feld Equipment Company, Inc	Non-Local	Bunker Gear	8,921.00
Mississippi Lime Company	Non-Local	Lime	26,870.50
Hach Company	Non-Local	WIMS Users	5,253.00
Munters Corporation	Non-Local	Munters Unit Repairs	4,297.00
Chicago, Central & Pacific Railroad Co	Non-Local	Oneida Crossing Repairs	3,367.47
Hawkins, Inc	Non-Local	Hydo	3,252.93
Utility Supply of America, Inc	Non-Local	Barricades	2,973.10
Chicago, Central & Pacific Railroad Co	Non-Local	Cayuga Crossing Repairs	2,889.66
Bend Mailing Services, LLC	Non-Local	Bill Printing Services	2,732.83
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	2,657.80
Rehab Systems Inc	Non-Local	Storm Sewer Cleaning	5,063.55
Utility Equipment Co	Non-Local	Couplings	2,095.00
Ziegler, Inc	Non-Local	C-65 Generator Repairs	2,086.64
Linde Inc	Non-Local	Carbon Dioxide	1,889.92
Utility Equipment Co	Non-Local	Clamp	1,856.82
Dale Vitito	Non-Local	Uniform- Yang	1,683.70
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	1,574.50
Petersen Manufacturing	Non-Local	Bench & Plaque- Tjaden	1,386.30
Rice Signs LLC	Non-Local	Signs	1,375.04
Gracie Globel, LLC	Non-Local	Lvl 1 Certification- Cameron	995.00

My Buy Local_v1
Payment Date Range: 04/07/2022 - 04/20/2022

Vendor Name	Buy Local Info	Payable Description	Total Payments
Tyler Technologies, Inc	Non-Local	Insite Transaction Fees	911.20
W. W. Grainger, Inc	Non-Local	Bookcase	879.56
Imagine the Possibilities, Inc	Non-Local	Janitorial Services	800.00
Beck Engineering, Inc	Non-Local	General Engineering Services	785.00
Lorenz and Jones Marine	Non-Local	Buoys	746.24
Elliot Equipment Company	Non-Local	Couplings	674.73
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	640.00
Pro Hydro-Testing LLC	Non-Local	Testing Services- Less Tax	593.00
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	539.00
Petersen Manufacturing	Non-Local	Bench & Plaque	1,588.95
Ace Sign Displays	Non-Local	Signs- Golf Plaques- Less Tax	480.00
NCL of Wisconsin, Inc	Non-Local	Supplies	458.42
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	854.00
Baker & Taylor, Inc	Non-Local	Books	413.86
Lectorum Publications, Inc	Non-Local	Books	408.83
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	346.50
Trevor Kruger	Non-Local	Laminate	315.97
Hach Company	Non-Local	Testing Supplies	306.81
Mercy Medical Services	Non-Local	Espana Physical	302.72
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	263.60
Erik E Mosbe	Non-Local	Belts	252.14
Schumacher Elevator Company	Non-Local	Elevator Maintenance	229.50
Sherwin Williams Co	Non-Local	Storm Drain Art Supplies	228.30
Midwest Breathing Air, LLC	Non-Local	Quarterly Air Test	436.80
Digital Ally Inc	Non-Local	Chest Cam	210.00
W. W. Grainger, Inc	Non-Local	Pet Waste Bags	205.49
Midwest Tape, LLC	Non-Local	DVDs	203.88
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	200.20
Hach Company	Non-Local	Testing Supplies	189.77
Western Iowa Tech Community College	Non-Local	2 Class Enrollement- Chavez	180.00
Sioux City Mercy Medical Clinic	Non-Local	2/9/2022 Physical- Inthongsay	175.00
W. W. Grainger, Inc	Non-Local	Binders	329.46
Iowa Division of Labor	Non-Local	Boiler Inspection Fee	160.00
Iowa Law Enforcement Academy	Non-Local	MMPI-2 Evaluation- Beauregard	150.00
Alpha Wireless Communications	Non-Local	Battery	144.00
Vermeer Sales & Service, Inc	Non-Local	Filters	127.69
Dale Vitito	Non-Local	Uniform- Yang	125.89
Trevor Kruger	Non-Local	Tempered Glass	125.04
W. W. Grainger, Inc	Non-Local	Oil Pump	116.36
Beck Engineering, Inc	Non-Local	DD Engineering Services	112.50
Midwest Tape, LLC	Non-Local	DVDs	108.69
Junior Library Guild	Non-Local	Books	104.00
Chicago, Central & Pacific Railroad Co	Non-Local	Water Line Easement	100.00
Midwest Tape, LLC	Non-Local	DVDs	97.46
Brodart Co.	Non-Local	Books	95.36
Cintas First Aid & Safety	Non-Local	First Aid Supplies	92.20
UnityPoint Clinic- Occupational Medicine	Non-Local	Testing Services	84.00
Baker & Taylor, Inc	Non-Local	Books	83.97
Midwest Tape, LLC	Non-Local	DVDs	81.71
Salus LLC	Non-Local	March 2022 Memberships	80.00
Brodart Co.	Non-Local	Books	73.30
Martin's Flag Company Co, Inc	Non-Local	Flags	67.06
Baker & Taylor, Inc	Non-Local	Books	66.35
Utility Supply of America, Inc	Non-Local	Supplies	64.17
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	61.00
Northwest Iowa League of Cities	Non-Local	3/24/2022 Meeting	60.00
Stanard & Associates, Inc	Non-Local	Testing Supplies	59.50
Underground Location Company	Non-Local	Locate Services	59.40
Baker & Taylor, Inc	Non-Local	Books	58.15
Dale Vitito	Non-Local	Name Plate	44.99
Ingram Library Services, Inc	Non-Local	Books	38.19

My Buy Local_v1**Payment Date Range: 04/07/2022 - 04/20/2022**

Vendor Name	Buy Local Info	Payable Description	Total Payments
Erik E Mosbe	Non-Local	Belt	34.12
Brodart Co.	Non-Local	Books	33.99
Erik E Mosbe	Non-Local	Belt	30.82
Baker & Taylor, Inc	Non-Local	Books	29.62
Marcus Lumber Company Corp	Non-Local	Adhesive	18.98
Ingram Library Services, Inc	Non-Local	Books	37.07
Brodart Co.	Non-Local	Books	18.14
Ingram Library Services, Inc	Non-Local	Books	53.51
W. W. Grainger, Inc	Non-Local	Bands	17.16
Iowa Dept of Agriculture & Land Stewardsh	Non-Local	2022 Prest App License- Vazquez	15.00
UPS	Non-Local	Shipping	12.40
Ingram Library Services, Inc	Non-Local	Books	9.58
Iowa Dept of Agriculture & Land Stewardsh	Non-Local	FY2022 Meter Licenses	9.00
Utility Equipment Co	Non-Local	Clamp Return	-2,507.04
Non-Local Total:		415,619.89	
Payroll/Refunds			
Custodian of Petty Cash	Payroll/Refunds	2022 CG Start up Cash	260.00
Virgil Gaffey	Payroll/Refunds	2022 DOT Physical Reimb	150.00
Mitch McDonald	Payroll/Refunds	3/24/2022 Training Travel Reimb	93.00
Alyssa M Solem	Payroll/Refunds	INOA Conference Travel Reimb	93.00
Dona Glienke	Payroll/Refunds	Shelter House Refund	80.00
Custodian of Petty Cash	Payroll/Refunds	Postage	16.86
Custodian of Petty Cash- Jean Cashman	Payroll/Refunds	Postage	16.70
Beth Ann Dawson McPherren	Payroll/Refunds	March 2022 Homebound Deliveries	5.03
Payroll/Refunds Total:		714.59	
Grand Total:		561,427.85	

King's Pointe Resort

Claims Publication

From 4/1/2022 to 4/13/2022

Vendor	Description	Amount
Authnet Gateway	Services	\$ 25.00
BV County Env Health	Services	\$ 150.00
Cintas Corporation	Supplies	\$ 787.18
City of Storm Lake	Utilities	\$ 2,789.27
Doll Distribution	Beverages	\$ 739.65
Fintech	Supplies	\$ 58.35
HyVee	Supplies	\$ 1,416.51
Johnson Brothers	Beverages	\$ 788.45
Martin Brothers	Food	\$ 7,339.85
Pitney Bowes	Postage	\$ 174.50
Shift 4	Services	\$ 6,623.43
Storm Lake Ace Hardware	Supplies	\$ 683.06
Sysco Iowa, Inc.	Food	\$ 2,973.21
W-O Payroll 4/1	Payroll	\$ 80,736.81
		<u><u>\$ 105,285.27</u></u>

REGULAR COUNCIL MEETING, CITY HALL COUNCIL CHAMBERS CITY OF STORM LAKE, APRIL 4, 2022, 5:00 PM

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

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

Media Present: Tom Cullen with The Storm Lake Times Pilot, 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 - No items at this time.

Hear the Public – none

Mayor Porsch read a Proclamation proclaiming April 3, 2022, through April 9, 2022, as National Library Week and he also thanked the City's librarians for the work they do at the library. Mayor Porsch also read a Proclamation proclaiming April 18, 2022, through April 23, 2022, as Storm Lake Proud beautification week. He requested the cooperation of all citizens and businesses to do their part to improve the appearance of Storm Lake and to encourage others to do likewise.

Consent Agenda - Moved by Kevin McKinney to approve the Consent Agenda, list of bills, Check #'s 78218 through 78263, EFT #'s 781, 2842 through 2867, King's Pointe and Sunrise Pointe disbursements, approve the March 21, 2022, City Council minutes, acknowledge Library and Airport February minutes, acknowledge Derien Beauregard to the civil service eligibility list for patrol officer, approve BVU PaintU Party Concert noise variance request for April 30 from 6:30 to 10:00 pm, and approve the SLPD Code Enforcement summary. Seconded by Council Member Ramos. Vote: All ayes. Motion carried

BVU Fiesta Latina - Moved by Council Member Ramos to adopt Resolution No. 69-R-2021-2022 approving BVU Fiesta Latina for April 24, 2022, at the Chautauqua Park. Seconded by Council Member Martinez. Roll call vote: All ayes. Motion carried.

RESOLUTION NO. 69-R-2021-2022

**A RESOLUTION APPROVING BUENA VISTA UNIVERSITY FIESTA LATINA EVENT
REQUEST**

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

To approve the following event details for BVU Raices for Fiesta Latina.

- Fiesta Latina will be held in Chautauqua Park on Sunday April 24th from 12PM to 7PM.
- BVU is requesting the following:
- Noise Variance from 12:00 PM to 8PM for amplified music and live performances
- Permission to have food vendors on site
- Permission for Inflatables and other activities on site with proper insurance submitted
- Street closures at Chautauqua Park Drive and E Lakeshore and Chautauqua Park Drive and Hudson Extension.

PASSED AND APPROVED this 4th Day of April, 2022

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

Firehouse Subs Public Safety Foundation - Moved by Council Member Ricklefs to approve submittal for the Firehouse Subs Public Safety Foundation Grant. Seconded by Council Member McKinney. Vote All ayes. Motion carried.

Workforce Housing Tax Incentive Program - Moved by Council Member Rice to adopt Resolution No. 70-R-2021-2022 supporting Workforce Housing Tax Incentive program. Seconded by Council Member Ramos. Roll call vote: All ayes. Motion carried.

RESOLUTION NO. 70–R-2021-2022

**A RESOLUTION IN SUPPORT OF A WORKFORCE HOUSING
TAX INCENTIVE APPLICATION TO BE SUBMITTED TO THE
IOWA ECONOMIC DEVELOPMENT AUTHORITY (IDEA) BY
BRASH LLC FOR WEST WINDS TOWNHOMES**

WHEREAS, Brash LLC plans on a \$1.6 Million capital investment for West Winds Townhomes housing development located at West 6th Street; and

WHEREAS, the project consists of four (4) sets of twinhomes; and

WHEREAS, the project will add new assessable tax valuation to Storm Lake;
and

WHEREAS, the City of Storm Lake will assist the project by providing tax abatement and \$1.00 building permits, providing water, sewer to the property line, street repairs and constructing driveway approaches; and

WHEREAS, Brash, LLC intends to submit an application for Workforce Housing Tax Incentive through the Iowa Economic Development Authority; and

WHEREAS, the City of Storm Lake is a duly recognized political subdivision of the State of Iowa action under the laws of the State of Iowa; and

WHEREAS, the City Council is the duly elected governing body of Storm Lake, Iowa; and

IT IS HEREBY RESOLVED by the City Council of Storm Lake Iowa as follows:

1. The City Council is in full support of the opportunity to promote housing development in Storm Lake, Iowa and fully supports the Application for Workforce Housing Tax Incentives.
2. City staff is authorized to assist in the preparation of the application and related materials deemed necessary.

PASSED AND APPROVED this 4th day of April ,2022.

Michael Porsch, Mayor

ATTEST

Mayra Martinez, City Clerk

City Updates - City Manager Keri Navratil gave a brief update of the upcoming events and activities occurring in Storm Lake

Downtown Master Plan

- Public Meetings were held March 22-23, 2022 - Thank you to everyone that attended the downtown public meetings
- There will still be opportunities to share your thoughts/ideas via some popup meetings
- Information will be shared online as well
- Stay tuned and watch for press release information and social media posts

Comprehensive Master Plan

- Our first stakeholder meeting is next week.
- Volunteers for future subcommittee work
- Press Release and social media posts will provide the status of the plan

Hwy7/110 Update

- Construction to begin on April 25 with final paving completed by mid-August

- Message boards will be up by April 18 to inform the public of detour routes
- Storm Lake Community School will have an information video that will inform parents of the detour information. The City will also post this information on our social media sites
- DOT will send out information via press release 14 days in advance of the project start date
- Bolton & Menk will also have progress updates throughout the project.
- Phase 2 of the project which consists of the traffic lights will begin in 2023.
- Updates by the City will be via press release and social media.

Live Healthy Iowa 5K – April 23

- We are in need volunteers to assist with the event.
- Please contact the City at 732-8002 or email Baker@stormlake.org

Mayor Porsch reiterated the request to citizens for volunteer help with any of the events and activities that will be occurring this year. If people are interested in helping, please call City Hall at 712-732-8000.

City Council Requested Items – none at this time

Member Rice requested that the Community events be listed on the Storm Lake United community calendar.

Adjourn – Moved by Council Member McKinney to adjourn at 5:26 pm. Seconded by Council Member Ramos. Vote: All ayes. Motion carried.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk



Library Board Meeting, City of Storm Lake, March 14, 2022, 4:00 p.m. hybrid and telephonic due to the Pandemic

Present: Board President Mary Kay Hudspeth, Jim Eliason, Sarah Freking, and Barb Wells. Also present, Elizabeth Huff, Library Director; Patricia Hampton, Witter Gallery Board President.

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

Disclosures by Board Members - None

Agenda – Moved by Board Member Freking to approve March 14 Agenda. Seconded by Board Member Wells. Vote all ayes. Motion carried.

Public Hearing – None

Witter Gallery Report – Patricia Hampton reported on the Witter Board Meeting; the Board Members wanted to pursue an agreement for an employee who will be funded by the City. The next Gallery Agreement committee meeting will take place next week. Board President Hudspeth asked for a floor tile and was told by Patricia Hampton that furniture will be moved on April 1 and 2 and that will determine how many tiles need to be re-glued.

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

Director's Report – Board Member Eliason asked about February 15 torching of outside pipe. Scott Olesen torched it because there was ice frozen midway in the pipe. Board Member Eliason asked about the Architect's design drawings and the Library Director will forward an email about the drawings for City Hall. The Friends of the Library have 3 furniture samples for the patrons to try and give comments. Two zoo programs have been booked for the Friends Summer Reading Program. Board Member Eliason commented on the Architect's Calendar about the renovation work starting in autumn. On the advice of Justin Yarosevich, Simmering Cory; all capital projects must be on hold until the CDBG-CV grant is closed out and completed since it might jeopardize the grant. The Library Director asked Tyler Gibbins, City Accountant to hold the capital funds. The Trustees, Friends and City will have a Zoom presentation of book gifts to the Sister Library on Friday, March 18, 2022.

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

Gallery Agreement Committee – Board Member Eliason reported there was a meeting on March 3, 2022. They discussed the pros/cons of a Gallery Director with library duties. Conclusions were tabled until the March Witter Gallery Board Meeting. Board Member Eliason asked Patricia Hampton for an email on a tentative job description and the Gallery will comply. Patricia Hampton said they had a candidate for this position and Board President cautioned the process would take time and was long into the future since Council would have to act on it.

Library Board Member Requested Items - None

Adjournment – Moved by Board Member Freking to adjourn meeting at 4:24 pm. Seconded by Board Member Wells. 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 April 11, 2022.

**Storm Lake Airport Commission
Regular Meeting, Airport Terminal
Monday, March 14, 2022, 4:00 PM**

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

Chairman Bob Ansong called the meeting to order at 4:30 pm.

Hear the Public – No comments.

Minutes – Moved by Commissioner Turner to approve the regular Airport Commission February 2022 minutes. Seconded by Commissioner Richardson. Vote: All ayes with Commissioner Dierking absent. Motion carried.

Financial Report – Moved by Commissioner Richardson to approve the financial reports for February 2022. Seconded by Commissioner Turner. Vote: All ayes with Commissioner Dierking absent. Motion carried.

Fuel Report – Moved by Commissioner Richardson to approve the January 2022 Fuel Report. Seconded by Commissioner Dierking. Vote: All ayes with Commissioner Dierking absent. Motion carried.

Airport Manager's Monthly Report – Runway 13/31 has one burned out runway light and one taxiway light is burned out and Runway 17/35 has eighteen burned out lights. The rotating beacon has quit rotating. And the security light on the northeast corner of hangar E is burned out. The Veeder-Root fuel monitoring system is not functioning. John was called out to the airport February 21, 2022, at 7:45 pm to check and report ice conditions on the runways for VT Industries. Shoveled walks around the terminal. We received a quote for pest control services at the airport from ABC Pest Control. The Commission has requested another quote be obtained before making a final decision. Staff will collect another quote and provide it to the Commission in April for consideration.

Courtesy Car Usage: 3 Miles 134
Fuel Meter Reading: Jet A – 586,359
AV Gas – 137,336.5

Administration Report –

Fuel Master Update - We received confirmation from Fuel Master that they have released the updated needed to get the Fuel Master processing over the network. City Staff is working with Fuel Master and Rebnord to make this conversion. The Expenses related to this update were previously budgeted as a capital item.

Update ACIP for Bipartisan Infrastructure Law (BIL) - The FAA needs to have an updated CIP provided to them by the end of the month if there are changes for FY2022 (current year) or next year, FY2023. With runway 17/35 lighting replacement scheduled for the go ahead in the fall of 2022, there was no need for any updates.

Hangar Door Maintenance - Bolton & Menk provided a potential contractor to work on the hangar doors. BFS put together a list of repairs/replacements that need to be completed which was forwarded to Midland Door Solutions for consideration. At this time, we have not received a proposed price for said repairs.

Adjourn – Moved by Commissioner Richardson to adjourn the meeting at 4:44 pm.
Seconded by Commissioner Turner. Vote: All ayes with Commissioner Dierking absent.
Motion carried.

Mayra Martinez, City Clerk



State of Iowa

Alcoholic Beverages Division

Applicant

NAME OF LEGAL ENTITY

Mayela Morelos

NAME OF BUSINESS(DBA)

Valentina's Meat Market

BUSINESS

(712) 213-5348

ADDRESS OF PREMISES

111 East 6th Street

CITY

Storm Lake

COUNTY

Buena Vista

ZIP

50588

MAILING ADDRESS

1212 Erie Street

CITY

Storm Lake

STATE

Iowa

ZIP

50588

Contact Person

NAME

Mayela or Silvino Morelos

PHONE

(712) 299-7543

EMAIL

mayelamorelos@icloud.com

License Information

LICENSE NUMBER

BC0030849

LICENSE/PERMIT TYPE

Class C Beer Permit

TERM

12 Month

STATUS

Active

EFFECTIVE DATE

June 4, 2021

EXPIRATION DATE

June 3, 2022

LAST DAY OF BUSINESS

SUB-PERMITS

Class C Beer Permit

PRIVILEGES

Sunday Service



State of Iowa

Alcoholic Beverages Division

Status of Business

BUSINESS TYPE

Sole Proprietor

Ownership

• Individual Owners

NAME	CITY	STATE	ZIP	POSITION	% OF OWNERSHIP	U.S. CITIZEN
Mayela Morelos	Storm Lake	Iowa	50588	Owner	100.00	Yes
Silvino Morelos	Storm Lake	Iowa	50588	Spouse	0.00	No

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



State of Iowa

Alcoholic Beverages Division

Applicant

NAME OF LEGAL ENTITY

La Isla Restaurant 2, Inc.

NAME OF BUSINESS(DBA)

Lalsla Restaurant 2

BUSINESS

(712) 213-1050

ADDRESS OF PREMISES

723 Lake Avenue North

CITY

Storm Lake

COUNTY

Buena Vista

ZIP

50588

MAILING ADDRESS

723 Lake Avenue North

CITY

Storm Lake

STATE

Iowa

ZIP

50588

Contact Person

NAME

Edgar DeLuna

PHONE

(712) 259-8654

EMAIL

edgar.deluna11@gmail.com

License Information

LICENSE NUMBER

LC0046253

LICENSE/PERMIT TYPE

Class C Liquor License

TERM

12 Month

STATUS

Submitted
to Local
Authority

EFFECTIVE DATE

Mar 3, 2022

EXPIRATION DATE

Mar 2, 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
Brian Martinez	South Sioux City	Nebraska	68776	Sole Shareholder, Director & Officer	100.00	Yes

Insurance Company Information

INSURANCE COMPANY

Auto Owners Insurance Company

POLICY EFFECTIVE DATE

Mar 3, 2022

POLICY EXPIRATION DATE

Mar 3, 2023

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 6, 2022

REFERENCE: LIQUOR LICENSE RENEWAL
LA ISLA RESTAURANT 2
723 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:

	3/16/2020 to 3/16/2021	3/17/2021 to 1/2/2022
INCIDENTS		
911 Hang Up Call	2	1
Animal Call	0	1
Business Security	0	6
Hit and Run	1	0
Intoxicated Driver	2	0
Open Dooor	0	4
Suspicious Activity	0	1
Vehicle Stop	0	2
ARRESTS	0	0

Recommendation: Approval of liquor license.

Print

Tax Abatement Application Form - Submission #411

Date Submitted: 3/28/2022

TAX ABATEMENT APPLICATION FORM

City of Storm Lake, Iowa
Revitalization Program is
authorized under Iowa Code
Chapter 404 and as adopted
by the City's Urban
Revitalization Program.



Need more information?
Scan this QR Code!



Tax exemptions are allowed as follows:

Residential Housing- Maximum five (5) year exemption of
100% on the first \$75,000 of actual value added.~
Commercial Property- Maximum three (3) year exemption
of 50% on the actual value added.~ Multi- Residential-10
year 100%~ NOTE: Minimum 20% increase on actual
value required.

For more information visit:

www.stormlake.org/taxabatement

- ☐ Prior Approval for intended improvements
- ☐ Approval of improvements completed

Property Address: *

94 N Emerald Drive #14, Storm Lake IA, 50584

Street, City, State, Zip Code

Property ID Number (PIN):

1405459014

Legal Description:

See attached

Property Owner Name:*

Brash LLC

Owner Email:

sbrash20@gmail.com

Phone Number:*

17122994684

Owner Address (if different than above):

510 Lakeshore Dr, Lakeside IA 50588

Street, City, State, Zip Code

Will this property be a rental?*

- ☐ Yes
☒ No

Is there is a tenant on the property who has occupied the dwelling unit for at least 1 year prior to date of adoption of the plan (4-4-2005) AND will be displaced by the proposed improvements?*

- ☐ Yes
☒ No

What is the existing use of the property?*

(Choose One)

- ☐ Residential ☐ Industrial
☐ Commercial ☒ Vacant
☐ Multi-Residential

What is the PROPOSED use of the property? *

(Choose one)

- ☒ Residential ☐ Industrial
☐ Commercial ☐ Vacant
☐ Multi-Residential

What is the nature of the improvements being completed?*

- ☒ New Construction ☐ Addition ☐ General Improvements

Describe Improvements:*

construction of single family townhome

Estimated or actual date of completion:*

8/15/2022

9:00 AM

Estimated cost of improvements:*

170,000

Note:

For complete details regarding eligibility & requirements see the Urban Revitalization Plan (4-4-2005) and amendment #1 (2014) and Ordinance.

Tax Abatement is NOT allowed in any current or future Urban Renewal Area within the City limits of the City of Storm Lake. Your application for Tax Abatement must be filed with the City of Storm Lake by February 1st of the assessment year for which the exemption is first claimed but in no case not later than two (2) years after the February 1st following the year that the improvements are first assessed for taxation. Your project must be completed so that the first full assessment is not later than January 1, 2024. Your signature below indicates your understanding of the City of Storm Lake Urban Revitalization Program and authorizes your desire to apply for tax abatement on this property provided that it qualifies under the terms of the program. Please attach the approved building permit to your application.

Signature*

Steve Brashears

Date*

3/28/2022

Title

Owner/manager

Company

Brash LLC

City of Storm Lake Building Official ~ 620 Erie Street ~ Storm Lake, IA 50588 ~ 712-732-8002

City of Storm Lake ONLY

Date Received:

3/28/2022

1st Year Fully Assessed:

☒ Check Box if property is **NOT** in an existing Urban Renewal Area

Building Permit #:

2022065

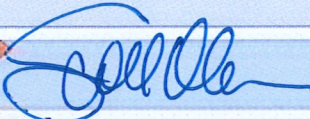
☐ For Rental Properties - Verified that property is on rental inspection registration list

☐ Check Box if application is approved

☐ Check Box if application is **NOT** approved

Disapproval Reason:

Authorized by Building Official:



Date:

3-29-2022

Authorized by Mayor:

Date:

Attested by City Clerk:

Date:

☐ Application Scanned to Laserfiche

Delivered to BV County Assessor on:

By:

City needs to submit application to Buena Vista County Assessor by March 1st annually.

Buena Vista County Assessor ONLY

Present Value of Structure:

Assessed Value with Improvements:

☐ Check Box if property **IS** eligible for Tax Abatement

☐ Check Box if property is **NOT** eligible for Tax Abatement

Assessor Signature:

Date:

☐ Check Box once final copy returned to City of Storm Lake

Storm Lake
Building Official
Building Permit

General/Location

Permit No: 2022065
Issued Date: 03/25/2022
Project:
Project Cost: 340000

Site Address: 94 N Emerald Drive #13 & #14
City/State/Zip: Storm Lake, IA 50588
Parcel No:

Description: Units #13 & 14

Owner/Contractor

Owner: Brash LLC
Address: 510 Lakeshore Dr.
City/State/Zip: Storm Lake, IA 50588
Phone: 712-299-4684
Email: sbrash20@gmail.com

Contractor:
Address:
City/State/Zip: ,
Phone:
Type:

Fee	Amount	Payment Date	Amount
New Single Family	\$2.00	03/28/2022	\$2.00
Total Fee: \$2.00		Total Paid: \$2.00	

THIS PERMIT AUTHORIZES CONSTRUCTION OF IMPROVEMENTS SPECIFIED.

By signing below, the applicant hereby agrees, in consideration of the issuance of this permit, to assume responsibility for and to hold the City harmless in regard to any and all claims of injury or damage arising from the acts or omissions of the applicant or his/her agents while acting under the authority of this permit. The applicant further agrees to comply with the provisions of the Code of the City of Storm Lake, Iowa and 29 CFR Part 1926.650, 651 and 652 as adopted by the Iowa Division of Labor.

The owner agrees to inspections of all installations subject to all pertinent code requirements. permit not valid unless signed by the Building Official. Permits must be kept on the job site.

Closure of city streets or parking will require a Right of Way (ROW) Permit. Please call 712-732-8002 at least two (2) business days prior to closure to obtain ROW permit.

INSPECTIONS REQUIRE 24 HOUR ADVANCED NOTICE.
Call before you dig: www.iowqonecall.com • 1-800-292-8989

Scott Olesen by Cb
Building Official

03/25/2022
Date

Date

ADDENDUM

LOT SIX (6), BLOCK ONE (1) IN WHITNEY PIERCE BEACH, BEING A PART OF GOVERNMENT LOT 3, SECTION 5, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA.

AND

A PART OF GOVERNMENT LOT 3 IN THE SW $\frac{1}{4}$ OF THE SE $\frac{1}{4}$ OF SECTION 5, AND A PART OF THE VACATED PORTION OF WHITNEY-PIERCE BEACH SUBDIVISION OF PART OF GOVERNMENT LOT 3 IN SECTION 5, T-90-N, R-37-W OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, AND BEING MORE FULLY DESCRIBED AS FOLLOWS: Commencing at the Southwest corner of the Southeast Quarter (SE $\frac{1}{4}$) of said Section 5, thence on an assumed bearing of North, along the West line of said Southeast Quarter (SE $\frac{1}{4}$) 33.00 feet; thence South 89°40'34" East, 98.02 feet to the point of beginning, said point being on the easterly right of way line of Iowa Highway No. 110; thence Northeasterly along the arc of a 3077.8 feet radius curve, concave easterly with a central angle of 25°30' and whose short chords bear North 12°46'20" East, 201.62 feet; thence North 15°44'37" East, 143.23 feet; thence North 18°34'44" East, 138.9 feet; thence North 21°58'18" East, 178.13 feet; thence North 25°52'50" East, 156.6 feet and here ending the circular curve; thence North 24°45'47" East, 53.20 feet to the Highwater Line of Storm Lake; thence along the Highwater Line of Storm Lake, North 62°21'15" East, 21.22 feet; thence North 69°12'38" East, 11.61 feet; thence South 82°19'23" East, 24.06 feet; thence North 68°16'26" East, 35.35 feet to the West Line of Lake Shore Drive as platted with Whitney Pierce Beach Addition in February, 1928; thence South 05°12'25" East, along the West line of said Lake Shore Drive, 217.89 feet; thence North 89°46'40" West, 44.0 feet; thence South 12°26'03" West, 51.20 feet to the Northwest Corner of Block 1 of Buck's Addition; thence South 12°53'35" West, along the West line of Block 1 of Buck's Addition, 593.67 feet to the North line of North Emerald Drive; thence North 89°40'34" West along a North line of North Emerald Drive 203.58 feet to the point of beginning, containing 3.42 acres more or less; EXCEPT 13,816 SQUARE FEET PARCEL OR 0.32 ACRES IN PART OF A SURVEY IN GOVERNMENT LOT 3 IN THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER (SW $\frac{1}{4}$ SE $\frac{1}{4}$) OF SECTION FIVE (5), TOWNSHIP 90 NORTH, RANGE THIRTY-SEVEN (37) WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA RECORDED IN MISCELLANEOUS BOOK 28 ON PAGE 913 IN THE BUENA VISTA COUNTY RECORDER'S OFFICE AND BEING MORE FULLY DESCRIBED AS FOLLOWS: Beginning at the Northeast corner of said survey; thence South 05°51'21" East, a distance of 137.90 feet along the East line of said survey, said line also being the West Right-of-Way of North Emerald Drive; thence North 85°42'00" West, a distance of 147.73 feet to a point on the West line of said survey, said line also being the East Right-of-Way of Highway 110; thence Northeasterly, a distance of 58.55 feet along a curve concave to the East having a radius of 2,852.78 feet, a central angle of 01°10'33" and a chord bearing of North 25°46'06" East, a distance of 58.54 feet along said West line of survey; thence North 24°06'51" East, a distance of 53.20 feet along said West line to the North line of said survey; thence North 61°42'19" East, a distance of 21.22 feet along said North line; thence North 68°33'42" East, a distance of 11.61 feet along said North Line; thence South 82°58'19" East, a distance of 24.06 feet along said North line; thence North 67°37'30" East, a distance of 35.35 feet along said North line to the point of beginning; AND EXCEPT A TRACT OF LAND LOCATED IN THE VACATED PORTIONS OF THE PLAT OF WHITNEY PIERCE BEACH IN GOVERNMENT LOT THREE (3) IN THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER (SW $\frac{1}{4}$ SE $\frac{1}{4}$) OF SECTION 5, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: Commencing at an iron pin found to monument the intersection of the North line of Emerald Drive and the East line of Iowa Highway No. 110; Thence along said East line on the arc of a 3077.80 foot radius curve, concave easterly, 632.34 feet, said curve having a chord which bears North 15° 24' 49" East, for 631.22 feet to the Point of Beginning; Thence continuing along said East line on the arc of a 3077.80 foot radius curve concave easterly, 127.87 feet, said curve having a chord which bears North 22° 29' 26" East, for 127.86 feet to the South line of tract owned by the City of Storm Lake; Thence South 86° 29' 42" East, along said South line, 149.60 feet to the West line of Lake Shore Drive as shown on the original plat of Whitney-Pierce Beach; Thence South 07° 24' 19" East, along said West line, 106.20 feet; Thence South 89° 00' 22" West, 211.95 feet to the Point of Beginning. Tract contains 0.47 acres and is subject to all easements of record.

Print

Tax Abatement Application Form - Submission #410

Date Submitted: 3/28/2022

**TAX ABATEMENT
APPLICATION FORM**

City of Storm Lake, Iowa
Revitalization Program is
authorized under Iowa Code
Chapter 404 and as adopted
by the City's Urban
Revitalization Program.



Need more information?
Scan this QR Code!



Tax exemptions are allowed as follows:

Residential Housing- Maximum five (5) year exemption of
100% on the first \$75,000 of actual value added.~
Commercial Property- Maximum three (3) year exemption
of 50% on the actual value added.~ Multi- Residential-10
year 100%~ NOTE: Minimum 20% increase on actual
value required.

For more information visit:

www.stormlake.org/taxabatement

- ☐ Prior Approval for intended improvements
- ☐ Approval of improvements completed

Property Address: *

94 N Emerald Drive #13, Storm Lake IA, 50588

Street, City, State, Zip Code

**Property ID Number
(PIN):**

1405459013

Legal Description:

See attached

Property Owner Name:*

Brash LLC

Owner Email:

sbrash20@gmail.com

Phone Number:*

17122994684

Owner Address (if different than above):

510 Lakeshore Dr, Lakeside IA 50588

Street, City, State, Zip Code

Will this property be a rental?*

- ☐ Yes
☒ No

Is there is a tenant on the property who has occupied the dwelling unit for at least 1 year prior to date of adoption of the plan (4-4-2005) AND will be displaced by the proposed improvements?*

- ☐ Yes
☒ No

What is the existing use of the property?*

(Choose One)

- ☒ Residential ☐ Industrial
☐ Commercial ☐ Vacant
☐ Multi-Residential

What is the PROPOSED use of the property? *

(Choose one)

- ☒ Residential ☐ Industrial
☐ Commercial ☐ Vacant
☐ Multi-Residential

What is the nature of the improvements being completed?*

- ☒ New Construction ☐ Addition ☐ General Improvements

Describe Improvements:*

Construction of single family townhome

Estimated or actual date of completion:*

8/15/2022

9:00 AM

Estimated cost of improvements:*

170,000

Note:

For complete details regarding eligibility & requirements see the Urban Revitalization Plan (4-4-2005) and amendment #1 (2014) and Ordinance.

Tax Abatement is NOT allowed in any current or future Urban Renewal Area within the City limits of the City of Storm Lake. Your application for Tax Abatement must be filed with the City of Storm Lake by February 1st of the assessment year for which the exemption is first claimed but in no case not later than two (2) years after the February 1st following the year that the improvements are first assessed for taxation. Your project must be completed so that the first full assessment is not later than January 1, 2024. Your signature below indicates your understanding of the City of Storm Lake Urban Revitalization Program and authorizes your desire to apply for tax abatement on this property provided that it qualifies under the terms of the program. Please attach the approved building permit to your application.

Signature*

Steve Brashears

Date*

3/28/2022

Title

Owner/manager

Company

Brash LLC

City of Storm Lake Building Official ~ 620 Erie Street ~ Storm Lake, IA 50588 ~ 712-732-8002

City of Storm Lake ONLY			
Date Received:	3/28/2022	1st Year Fully Assessed:	
☒ Check Box if property is NOT in an existing Urban Renewal Area			
Building Permit #:	2022065	☐ For Rental Properties - Verified that property is on rental inspection registration list	
☐ Check Box if application is approved		☐ Check Box if application is NOT approved	
Disapproval Reason:			
Authorized by Building Official:	Jill Ole	Date:	3-29-2022
Authorized by Mayor:		Date:	
Attested by City Clerk:		Date:	
☐ Application Scanned to Laserfiche			
Delivered to BV County Assessor on :		By:	
City needs to submit application to Buena Vista County Assessor by March 1st annually.			

Buena Vista County Assessor ONLY			
Present Value of Structure:			
Assessed Value with Improvements:		☐ Check Box if property IS eligible for Tax Abatement	
		☐ Check Box if property is NOT eligible for Tax Abatement	
Assessor Signature:		Date:	
☐ Check Box once final copy returned to City of Storm Lake			



Building Permit

General/Location

Permit No: 2022065
Issued Date: 03/25/2022
Project:
Project Cost: 340000

Site Address: 94 N Emerald Drive #13 & #14
City/State/Zip: Storm Lake, IA 50588
Parcel No:

Description: Units #13 & 14

Owner/Contractor

Owner: Brash LLC
Address: 510 Lakeshore Dr.
City/State/Zip: Storm Lake, IA 50588
Phone: 712-299-4684
Email: sbrash20@gmail.com

Contractor:
Address:
City/State/Zip: ,
Phone:
Type:

Fee	Amount	Payment Date	Amount
New Single Family	\$2.00	03/28/2022	\$2.00
Total Fee: \$2.00		Total Paid: \$2.00	

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By signing below, the applicant hereby agrees, in consideration of the issuance of this permit, to assume responsibility for and to hold the City harmless in regard to any and all claims of injury or damage arising from the acts or omissions of the applicant or his/her agents while acting under the authority of this permit. The applicant further agrees to comply with the provisions of the Code of the City of Storm Lake, Iowa and 29 CFR Part 1926.650, 651 and 652 as adopted by the Iowa Division of Labor.

The owner agrees to inspections of all installations subject to all pertinent code requirements. permit not valid unless signed by the Building Official. Permits must be kept on the job site.

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INSPECTIONS REQUIRE 24 HOUR ADVANCED NOTICE.

Call before you dig: www.iowqonecall.com • 1-800-292-8989

Scott Olesen by Cb
Building Official

03/25/2022
Date

Date

ADDENDUM

LOT SIX (6), BLOCK ONE (1) IN WHITNEY PIERCE BEACH, BEING A PART OF GOVERNMENT LOT 3, SECTION 5, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA.

AND

A PART OF GOVERNMENT LOT 3 IN THE SW $\frac{1}{4}$ OF THE SE $\frac{1}{4}$ OF SECTION 5, AND A PART OF THE VACATED PORTION OF WHITNEY-PIERCE BEACH SUBDIVISION OF PART OF GOVERNMENT LOT 3 IN SECTION 5, T-90-N, R-37-W OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, AND BEING MORE FULLY DESCRIBED AS FOLLOWS: Commencing at the Southwest corner of the Southeast Quarter (SE $\frac{1}{4}$) of said Section 5, thence on an assumed bearing of North, along the West line of said Southeast Quarter (SE $\frac{1}{4}$) 33.00 feet; thence South 89°40'34" East, 98.02 feet to the point of beginning, said point being on the easterly right of way line of Iowa Highway No. 110; thence Northeasterly along the arc of a 3077.8 feet radius curve, concave easterly with a central angle of 25°30' and whose short chords bear North 12°46'20" East, 201.62 feet; thence North 15°44'37" East, 143.23 feet; thence North 18°34'44" East, 138.9 feet; thence North 21°58'18" East, 178.13 feet; thence North 25°52'50" East, 156.6 feet and here ending the circular curve; thence North 24°45'47" East, 53.20 feet to the Highwater Line of Storm Lake; thence along the Highwater Line of Storm Lake, North 62°21'15" East, 21.22 feet; thence North 69°12'38" East, 11.61 feet; thence South 82°19'23" East, 24.06 feet; thence North 68°16'26" East, 35.35 feet to the West Line of Lake Shore Drive as platted with Whitney Pierce Beach Addition in February, 1928; thence South 05°12'25" East, along the West line of said Lake Shore Drive, 217.89 feet; thence North 89°46'40" West, 44.0 feet; thence South 12°26'03" West, 51.20 feet to the Northwest Corner of Block 1 of Buck's Addition; thence South 12°53'35" West, along the West line of Block 1 of Buck's Addition, 593.67 feet to the North line of North Emerald Drive; thence North 89°40'34" West along a North line of North Emerald Drive 203.58 feet to the point of beginning, containing 3.42 acres more or less; EXCEPT 13,816 SQUARE FEET PARCEL OR 0.32 ACRES IN PART OF A SURVEY IN GOVERNMENT LOT 3 IN THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER (SW $\frac{1}{4}$ SE $\frac{1}{4}$) OF SECTION FIVE (5), TOWNSHIP 90 NORTH, RANGE THIRTY-SEVEN (37) WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA RECORDED IN MISCELLANEOUS BOOK 28 ON PAGE 913 IN THE BUENA VISTA COUNTY RECORDER'S OFFICE AND BEING MORE FULLY DESCRIBED AS FOLLOWS: Beginning at the Northeast corner of said survey; thence South 05°51'21" East, a distance of 137.90 feet along the East line of said survey, said line also being the West Right-of-Way of North Emerald Drive; thence North 85°42'00" West, a distance of 147.73 feet to a point on the West line of said survey, said line also being the East Right-of-Way of Highway 110; thence Northeasterly, a distance of 58.55 feet along a curve concave to the East having a radius of 2,852.78 feet, a central angle of 01°10'33" and a chord bearing of North 25°46'06" East, a distance of 58.54 feet along said West line of survey; thence North 24°06'51" East, a distance of 53.20 feet along said West line to the North line of said survey; thence North 61°42'19" East, a distance of 21.22 feet along said North line; thence North 68°33'42" East, a distance of 11.61 feet along said North Line; thence South 82°58'19" East, a distance of 24.06 feet along said North line; thence North 67°37'30" East, a distance of 35.35 feet along said North line to the point of beginning; AND EXCEPT A TRACT OF LAND LOCATED IN THE VACATED PORTIONS OF THE PLAT OF WHITNEY PIERCE BEACH IN GOVERNMENT LOT THREE (3) IN THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER (SW $\frac{1}{4}$ SE $\frac{1}{4}$) OF SECTION 5, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: Commencing at an iron pin found to monument the intersection of the North line of Emerald Drive and the East line of Iowa Highway No. 110; Thence along said East line on the arc of a 3077.80 foot radius curve, concave easterly, 632.34 feet, said curve having a chord which bears North 15° 24' 49" East, for 631.22 feet to the Point of Beginning; Thence continuing along said East line on the arc of a 3077.80 foot radius curve concave easterly, 127.87 feet, said curve having a chord which bears North 22° 29' 26" East, for 127.86 feet to the South line of tract owned by the City of Storm Lake; Thence South 86° 29' 42" East, along said South line, 149.60 feet to the West line of Lake Shore Drive as shown on the original plat of Whitney-Pierce Beach; Thence South 07° 24' 19" East, along said West line, 106.20 feet; Thence South 89° 00' 22" West, 211.95 feet to the Point of Beginning. Tract contains 0.47 acres and is subject to all easements of record.



REAL ESTATE CONTRACT (SHORT FORM)

IT IS AGREED between Ballou Holdings, L.L.C. ("Sellers"); and City of Storm Lake, Iowa, an Iowa municipal corporation ("Buyers").

Sellers agree to sell and Buyers agree to buy real estate in Buena Vista County, Iowa, described as set forth on Exhibit A with any easements and appurtenant servient estates, but subject to the following:

- a. any zoning and other ordinances;
- b. any covenants of record;
- c. any easements of record for public utilities, roads and highways; and
- d. any other easements of record

(the "Real Estate"), upon the following terms:

1. **PRICE.** The total purchase price for the Real Estate is Nine Hundred Eighty-five and no/100 Dollars (\$985.00) of which Zero Dollars (\$0.00) has been paid. Buyers shall pay the balance to Sellers at City Hall, 620 Erie Street, P.O. Box 1086, Storm Lake, IA 50588, or as otherwise agreed by Sellers and Buyers, as follows: The full purchase price shall be paid at closing upon delivery of the warranty deed conveying the Real Estate to Buyers.
2. **INTEREST.** Buyers shall also pay interest at the rate of 2 percent per annum on all delinquent amounts and any sum reasonably advanced by Sellers to protect their interest in this contract, computed from the date of the delinquency or advance.
3. **REAL ESTATE TAXES.** Sellers shall pay all real estate taxes that have been assessed and are a lien on the Real Estate before the date on which Buyers take possession of the Real Estate or that have accrued on a prorated basis to the date on which Buyers take possession but are payable in the fiscal year succeeding the fiscal year in which Buyer takes possession of the Real Estate. Buyers shall pay all subsequent real estate taxes. Any proration of real estate taxes on the Real Estate shall be based upon such taxes for the year currently payable unless the parties state otherwise.
4. **SPECIAL ASSESSMENTS.** Sellers shall pay all special assessments which are a lien on the Real Estate as of the date of this contract. All other special assessments shall be paid by Buyers.
5. **POSSESSION CLOSING.** Sellers shall give Buyers possession of the Real Estate on closing date, provided Buyers are not in default under this contract. Closing shall be on or before 4-22-22, unless otherwise agreed by parties.
6. **INSURANCE.** Sellers shall maintain existing insurance upon the Real Estate until the date of possession. Buyers shall accept insurance proceeds instead of Sellers replacing or repairing damaged improvements.
7. **ABSTRACT AND TITLE.** Buyers, at their expense, may obtain an abstract of title to the Real Estate continued through the date of this contract. It must show merchantable title in Sellers in conformity with this contract, Iowa law and the Title Standards of the Iowa State Bar Association.
8. **FIXTURES.** All property that integrally belongs to or is part of the Real Estate, whether attached or detached, such as light fixtures, shades, rods, blinds, awnings, windows, storm

doors, screens, plumbing fixtures, water heaters, water softeners, automatic heating equipment, air conditioning equipment, wall to wall carpeting, built-in items and electrical service cable, outside television towers and antenna, fencing, gates and landscaping shall be considered a part of Real Estate and included in the sale.

9. **DEED.** Upon payment of purchase price, Sellers shall convey the Real Estate to Buyers or their assignees, by warranty deed, free and clear of all liens, restrictions, and encumbrances except as provided herein. Any general warranties of title shall extend only to the date of this contract, with special warranties as to acts of Sellers continuing up to time of delivery of the deed.

10. **REMEDIES OF THE PARTIES.**

- a. If Sellers fail to timely perform their obligations under this contract, Buyers shall have the right to terminate this contract and have all payments made returned to them.
- b. Buyers and Sellers are also entitled to utilize any and all other remedies or actions at law or in equity available to them.
- c. In any action or proceeding relating to this contract the successful party shall be entitled to receive reasonable attorney's fees and costs as permitted by law.

11. **JOINT TENANCY IN PROCEEDS AND IN REAL ESTATE.** If Sellers, immediately preceding this contract, hold title to the Real Estate in joint tenancy with full right of survivorship, and the joint tenancy is not later destroyed by operation of law or by acts of Sellers, then the proceeds of this sale, and any continuing or recaptured rights of Sellers in the Real Estate, shall belong to Sellers as joint tenants with full right of survivorship and not as tenants in common; and Buyers, in the event of the death of either Seller, agree to pay any balance of the price due Sellers under this contract to the surviving Seller and to accept a deed from the surviving Seller consistent with paragraph 10.

12. **JOINDER BY SELLER'S SPOUSE.** Seller's spouse, if not a titleholder immediately preceding acceptance of this offer, executes this contract only for the purpose of relinquishing all rights of dower, homestead and distributive shares or in compliance with Section 561.13 of the Iowa Code and agrees to execute the deed for this purpose.

13. **TIME IS OF THE ESSENCE.** Time is of the essence in this contract.

14. **CONSTRUCTION.** Words and phrases in this contract shall be construed as in the singular or plural number, and as masculine, feminine or neuter gender, according to the context.

15. **RELEASE OF RIGHTS.** Each of the Sellers hereby relinquishes all rights of dower, homestead and distributive share in and to the property and waives all rights of exemption as to any of the property.

16. **CERTIFICATION.** Buyers and Sellers each certify that they are not acting, directly or indirectly, for or on behalf of any person, group, entity or nation named by any Executive Order or the United States Treasury Department as a terrorist, "Specially Designated National and Blocked Person" or any other banned or blocked person, entity, nation or transaction pursuant to any law, order, rule or regulation that is enforced or administered by the Office of Foreign Assets Control; and are not engaged in this transaction, directly or indirectly on behalf of, any such person, group, entity or nation. Each party hereby agrees to defend, indemnify and hold harmless the other party from and against any and all claims, damages, losses, risks, liabilities and expenses (including attorney's fees and costs) arising from or related to my breach of the foregoing certification.

17. **INSPECTION OF PRIVATE SEWAGE DISPOSAL SYSTEM.** Sellers represent and warrant to Buyers that the Real Estate is not served by a private sewage disposal system, and there are no known private sewage disposal systems on the property.

18. **ADDITIONAL PROVISIONS.**

- a. Sellers warrant that there is no known burial site, well, solid waste disposal site, hazardous substance, or underground storage tank on the Real Estate.
- b. This contract is subject to the approval of the City Council of the City of Storm Lake, Iowa. If this contract is not so approved, the contract shall be void.
- c. A fully executed facsimile or electronic copy of this Contract shall be treated as an original Contract. This Contract may be executed by facsimile, PDF, or other electronic means and in any number of counterparts, which shall become effective upon delivery and shall constitute and create an original, legally binding and enforceable contract in any court. All counterparts shall be deemed to constitute one instrument, and each counterpart shall be deemed an original.
- d. If a settlement for construction or maintenance damages is hereafter entered into pursuant to Buyers' purchase of the Real Estate, Sellers shall have five years from the date of such settlement to renegotiate construction or maintenance damages not apparent at the time of such settlement, as required by Section 6B.52 of the Code of Iowa.

Ballou Holdings, L.L.C.

By: _____

_____ *[Printed name of person authorized to sign for entity]*

CITY OF STORM LAKE, IOWA

Date: _____

By: _____

Michael Porsch, Mayor

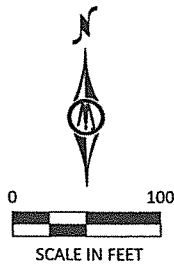
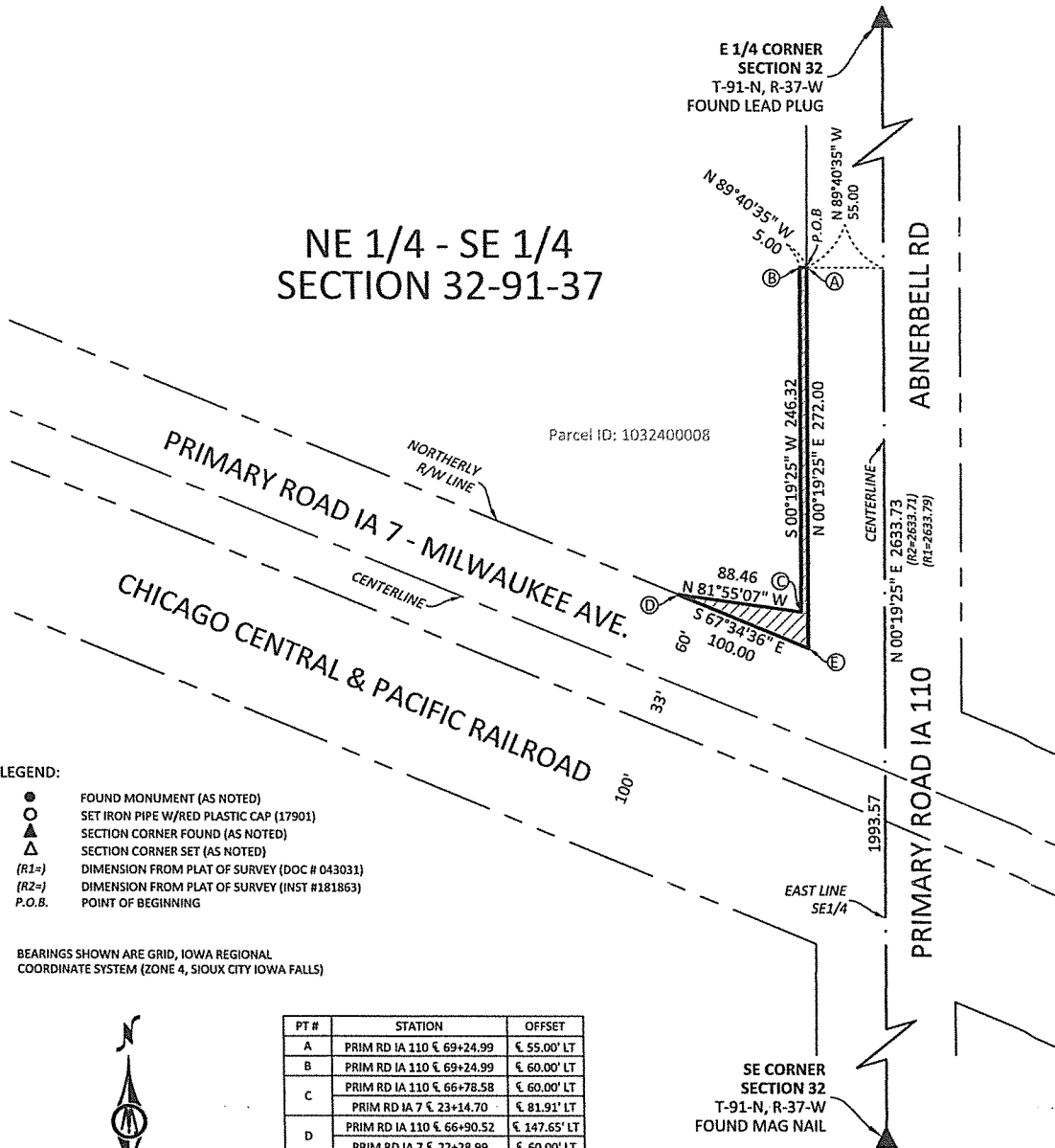
ATTEST:

Mayra A. Martinez, City Clerk

IOWA DEPARTMENT OF TRANSPORTATION
ACQUISITION PLAT
EXHIBIT "A"



COUNTY BUENA VISTA STATE CONTROL NO.
PROJECT NO. PARCEL NO.
SECTION 32 TOWNSHIP 91 NORTH RANGE 37 WEST
ROW - FEE 2,391 Sq. Ft. EASE QUIT CLAIM
ACQUIRED ACCESS RIGHTS FROM STA. TO STA. MAIN LINE SIDE
ACQUIRED ACCESS RIGHTS FROM STA. TO STA. SIDE ROAD SIDE
ACQUIRED FROM BALLOU HOLDING, LLC



DATE DRAWN JAH 08/11/2020

PT #	STATION	OFFSET
A	PRIM RD IA 110 E 69+24.99	E 55.00' LT
B	PRIM RD IA 110 E 69+24.99	E 60.00' LT
C	PRIM RD IA 110 E 66+78.58	E 60.00' LT
	PRIM RD IA 7 E 23+14.70	E 81.91' LT
D	PRIM RD IA 110 E 66+90.52	E 147.65' LT
	PRIM RD IA 7 E 22+28.99	E 60.00' LT
E	PRIM RD IA 110 E 66+52.90	E 55.00' LT
	PRIM RD IA 7 E 23+28.99	E 60.00' LT



I hereby certify that this land surveying document was prepared and the related survey work was performed by me or under my direct personal supervision and that I am a duly licensed Professional Land Surveyor under the laws of the State of Iowa.

JOSEPH HAEFNER, L.S. LICENSE NO. 17901

02/15/2022
Date

My license renewal date is December 31, 2021.

Pages or sheets covered by this seal:

THIS SHEET ONLY

THE FEE SIMPLE TITLE GRANTED IS TO LAND DESCRIBED AS FOLLOWS:

A parcel of land located in the Northeast Quarter of the Southeast Quarter of Section 32, Township 91 North, Range 37 West of the Fifth P.M., Buena Vista County, Iowa, as shown on the Acquisition Plat Exhibit "A" attached hereto and by reference made a part hereof and more particularly described as follows:

Commencing at the southeast corner of said Section 32; thence North 00 degrees 19 minutes 25 seconds East, along the east line of the Southeast Quarter of said Section 32, a distance of 1993.57 feet; thence North 89 degrees 40 minutes 35 seconds West, a distance of 55.00 feet to the point of beginning, said point being on the existing west right-of-way line of Primary Road Iowa 110 (Abnerbell Road); thence continuing North 89 degrees 40 minutes 35 seconds West, a distance of 5.00 feet; thence South 00 degrees 19 minutes 25 seconds West, parallel with said west right-of-way line, a distance of 246.32 feet; thence North 81 degrees 55 minutes 07 seconds West, a distance of 88.46 feet to a point on the northerly right-of-way line of Primary Road Iowa 7 (Milwaukee Avenue); thence South 67 degrees 34 minutes 36 seconds East, along said northerly right-of-way line, a distance of 100.00 feet to said west right-of-way line, thence North 00 degrees 19 minutes 25 seconds East, along said west right-of-way line, a distance of 272.00 feet to the point of beginning. Containing 2,391 square feet.

Staff Summary

4/18/2022

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	\$ 6,086.76
Contract/Agreement	\$ 73,842.45
Local	\$ 65,164.16
Non- Local	\$ 415,619.89
Payroll/Refunds/Pyrl Tax & Ins	\$ 121,763.76
Total Expenses	\$ 682,477.02
Supporting Documents Attached	

RECOMMENDATION: Review Buy Local Information

ATTACHMENTS:

Description	Type
 Project Activity Report	Backup Material



Storm Lake, IA

My Buy Local_v1

Payment Date Range: 04/07/2022 - 04/20/2022

Vendor Name	Buy Local Info	Payable Description	Total Payments
BVC			
Control System Specialists, LLC	BVC	Relief Valve Installation	1,668.64
RR Electric LLC	BVC	Light & Beacon Repairs- Less Tax	581.26
Mike's Electronics Inc	BVC	Influent Valve Service	1,956.18
Essential Ellison LLC	BVC	Annual Fire Extinguisher Testing	296.16
Mike's Electronics Inc	BVC	Day Bin Service	400.00
Buena Vista County Attorney	BVC	July-Dec 2021 Collection Services	165.25
Mike's Electronics Inc	BVC	Blower #3 Repairs	285.00
Essential Ellison LLC	BVC	Annual Extinguisher Inspections	126.56
Buena Vista County Solid Waste	BVC	Recycling	220.48
Mike's Electronics Inc	BVC	Well 7 Repairs	105.00
Buena Vista County Solid Waste	BVC	Recycling	104.00
Alan Slight	BVC	6/11/2022 Testing Proctor	75.00
Essential Ellison LLC	BVC	Annual Extinguisher Inspections	57.99
Buena Vista County Solid Waste	BVC	Recycling	45.24
BVC Total:			6,086.76
Contract/Agreement			
Community Education Dept	Contract/Agreement	3rd Qtr FY2022 Agreement	18,901.08
I & S Group, Inc	Contract/Agreement	Downtown Master Plan Goals	9,750.00
Bolton & Menk, Inc	Contract/Agreement	Construction Admin	23,601.25
Power Solutions, Inc	Contract/Agreement	Regatta Repairs	5,625.78
Bolton & Menk, Inc	Contract/Agreement	Design & Bidding Services	15,096.50
I & S Group, Inc	Contract/Agreement	MCC Construction Admin	768.51
Power Solutions, Inc	Contract/Agreement	Switch Installation	99.33
Contract/Agreement Total:			73,842.45
Local			
Growmark, Inc	Local	Fuel	13,763.92
Alliant Energy	Local	Gas Services	10,374.19
Jim Bartholomew	Local	Airport Contract April 2022	5,783.97
Stanton Electric, Inc	Local	Lighthouse Repairs	4,650.11
Rebnord Technologies, Inc	Local	IT Service Agreement	3,583.12
Verizon Wireless Services LLC	Local	Cell Phone Service	3,509.80
Wiese Plumbing & Heating, Inc	Local	Water Cooler Installation	2,586.70
Central Bank	Local	Services	1,813.42
Buena Vista Regional Medical Center	Local	2/28/2022 Kapriel Physical	1,633.00
Long Lines	Local	Fax Line & Emergency Line Service	1,517.12
Philip E Havens	Local	Legal Services	1,166.67
Buena Vista Regional Medical Center	Local	2/24/2022 Espana Physical	3,481.00
Storm Lake Industrial Corporation	Local	SL Bucks	990.00
King's Pointe Resort	Local	3.22.22 Downtown Master Plan Meeting	1,939.50
Larson Oil & Distributing Co, Inc	Local	Propane	689.70
Michael P. Reinert	Local	Steel Materials	600.00
Melanders TV & Appliances	Local	Freezer	599.00
Edwards Storm Lake	Local	2 Tires	539.12
Rolloff Dumpster Rental of Iowa Inc	Local	Dumpster Rental	537.90
North Lake Truck Repair	Local	Filter	411.83
Storm Lake Hydraulics Co, Inc	Local	Couplers	390.20
Rebnord Technologies, Inc	Local	Toner	369.95
McCrea Enterprises	Local	Paint	328.75
A & A Automotive	Local	Fuel Leak Repairs- Less Tax	325.02
Storm Lake Ace Hardware	Local	Supplies	294.25
Buena Vista Regional Medical Center	Local	2/2/2022 Inthongsay Testing	244.00
Fastenal Company	Local	Grease	216.07
Rust Publishing NWIA, LLC	Local	March 2022 Publications	198.44

My Buy Local_v1

Payment Date Range: 04/07/2022 - 04/20/2022

Vendor Name	Buy Local Info	Payable Description	Total Payments
Visual Edge Inc	Local	Copier Maintenance Agreement	185.86
Dianne Johnson	Local	Bd & Disp Dogs	170.00
Graham Tire	Local	Tire Replacement	163.96
Michael Rust	Local	Muck Boots- Manh	144.95
Qwest Corporation	Local	Phone Service	135.09
Vetter Equipment	Local	Supplies	134.00
Graham Tire	Local	Tire Repair	128.52
Reding's Gravel & Excavating Co., Inc	Local	Scale Fees	117.00
Buena Vista Regional Medical Center	Local	2/28/2022 Kapriel Test	105.00
Visual Edge Inc	Local	Copier Maintenance Agreement	85.64
Plumbing & Heating Wholesale, Inc	Local	Snack Shack Supplies	84.37
Storm Lake Hydraulics Co, Inc	Local	Couplers	83.46
Marilyn Fields	Local	6/11/2022 6/11/2022 Testing Proctor	75.00
Dennis R Julius	Local	Entrance Mat Services	74.35
Buena Vista Regional Medical Center	Local	3/3/2022 Keokham Testing	142.00
Plumbing & Heating Wholesale, Inc	Local	Filters	68.02
O'Reilly Automotive Inc	Local	Oil	65.97
Dennis R Julius	Local	Laundry Services	63.05
The Bridge of Storm Lake	Local	Supplies	60.34
Kelly Johnson	Local	Feb/March 2022 Punches	60.00
Visual Edge Inc	Local	Copier Maintenance Agreement	59.27
Fareway Stores, Inc	Local	Supplies	56.94
Fastenal Company	Local	Grease Gun	55.02
Visual Edge Inc	Local	Copier Maintenance Agreement	53.44
A & A Automotive	Local	Service- Less Tax	52.58
Iowa Office Supply Inc	Local	Supplies	40.77
Visual Edge Inc	Local	Copier Maintenance Agreement	38.64
Storm Lake Bakery	Local	Supplies	30.30
Visual Edge Inc	Local	Copier Maintenance Agreement	27.68
Culligan Water Storm Lake	Local	Water	33.00
Plumbing & Heating Wholesale, Inc	Local	Plug	20.78
Iowa Office Supply Inc	Local	Supplies	11.42
Plumbing & Heating Wholesale, Inc	Local	Snack Shack Supplies	0.99

Local Total: 65,164.16

Non-Local

Godbersen-Smith Construction Co., Inc	Non-Local	Pay #1 Hwy 7/110 Intersection	155,200.00
Koloni, Inc	Non-Local	Summer Rec Equipment	89,050.00
Eastern Aviation Fuels, Inc	Non-Local	Jet Fuel	48,570.87
Munters Corporation	Non-Local	Down on Quote CS2204060112	14,075.00
Municipal Supply, Inc	Non-Local	Ally Meters	9,900.00
Ed M. Feld Equipment Company, Inc	Non-Local	Bunker Gear	8,921.00
Mississippi Lime Company	Non-Local	Lime	26,870.50
Hach Company	Non-Local	WIMS Users	5,253.00
Munters Corporation	Non-Local	Munters Unit Repairs	4,297.00
Chicago, Central & Pacific Railroad Co	Non-Local	Oneida Crossing Repairs	3,367.47
Hawkins, Inc	Non-Local	Hydo	3,252.93
Utility Supply of America, Inc	Non-Local	Barricades	2,973.10
Chicago, Central & Pacific Railroad Co	Non-Local	Cayuga Crossing Repairs	2,889.66
Bend Mailing Services, LLC	Non-Local	Bill Printing Services	2,732.83
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	2,657.80
Rehab Systems Inc	Non-Local	Storm Sewer Cleaning	5,063.55
Utility Equipment Co	Non-Local	Couplings	2,095.00
Ziegler, Inc	Non-Local	C-65 Generator Repairs	2,086.64
Linde Inc	Non-Local	Carbon Dioxide	1,889.92
Utility Equipment Co	Non-Local	Clamp	1,856.82
Dale Vitito	Non-Local	Uniform- Yang	1,683.70
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	1,574.50
Petersen Manufacturing	Non-Local	Bench & Plaque- Tjaden	1,386.30
Rice Signs LLC	Non-Local	Signs	1,375.04
Gracie Globel, LLC	Non-Local	Lvl 1 Certification- Cameron	995.00

My Buy Local_v1
Payment Date Range: 04/07/2022 - 04/20/2022

Vendor Name	Buy Local Info	Payable Description	Total Payments
Tyler Technologies, Inc	Non-Local	Insite Transaction Fees	911.20
W. W. Grainger, Inc	Non-Local	Bookcase	879.56
Imagine the Possibilities, Inc	Non-Local	Janitorial Services	800.00
Beck Engineering, Inc	Non-Local	General Engineering Services	785.00
Lorenz and Jones Marine	Non-Local	Buoys	746.24
Elliot Equipment Company	Non-Local	Couplings	674.73
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	640.00
Pro Hydro-Testing LLC	Non-Local	Testing Services- Less Tax	593.00
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	539.00
Petersen Manufacturing	Non-Local	Bench & Plaque	1,588.95
Ace Sign Displays	Non-Local	Signs- Golf Plaques- Less Tax	480.00
NCL of Wisconsin, Inc	Non-Local	Supplies	458.42
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	854.00
Baker & Taylor, Inc	Non-Local	Books	413.86
Lectorum Publications, Inc	Non-Local	Books	408.83
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	346.50
Trevor Kruger	Non-Local	Laminate	315.97
Hach Company	Non-Local	Testing Supplies	306.81
Mercy Medical Services	Non-Local	Espana Physical	302.72
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	263.60
Erik E Mosbe	Non-Local	Belts	252.14
Schumacher Elevator Company	Non-Local	Elevator Maintenance	229.50
Sherwin Williams Co	Non-Local	Storm Drain Art Supplies	228.30
Midwest Breathing Air, LLC	Non-Local	Quarterly Air Test	436.80
Digital Ally Inc	Non-Local	Chest Cam	210.00
W. W. Grainger, Inc	Non-Local	Pet Waste Bags	205.49
Midwest Tape, LLC	Non-Local	DVDs	203.88
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	200.20
Hach Company	Non-Local	Testing Supplies	189.77
Western Iowa Tech Community College	Non-Local	2 Class Enrollement- Chavez	180.00
Sioux City Mercy Medical Clinic	Non-Local	2/9/2022 Physical- Inthongsay	175.00
W. W. Grainger, Inc	Non-Local	Binders	329.46
Iowa Division of Labor	Non-Local	Boiler Inspection Fee	160.00
Iowa Law Enforcement Academy	Non-Local	MMPI-2 Evaluation- Beauregard	150.00
Alpha Wireless Communications	Non-Local	Battery	144.00
Vermeer Sales & Service, Inc	Non-Local	Filters	127.69
Dale Vitito	Non-Local	Uniform- Yang	125.89
Trevor Kruger	Non-Local	Tempered Glass	125.04
W. W. Grainger, Inc	Non-Local	Oil Pump	116.36
Beck Engineering, Inc	Non-Local	DD Engineering Services	112.50
Midwest Tape, LLC	Non-Local	DVDs	108.69
Junior Library Guild	Non-Local	Books	104.00
Chicago, Central & Pacific Railroad Co	Non-Local	Water Line Easement	100.00
Midwest Tape, LLC	Non-Local	DVDs	97.46
Brodart Co.	Non-Local	Books	95.36
Cintas First Aid & Safety	Non-Local	First Aid Supplies	92.20
UnityPoint Clinic- Occupational Medicine	Non-Local	Testing Services	84.00
Baker & Taylor, Inc	Non-Local	Books	83.97
Midwest Tape, LLC	Non-Local	DVDs	81.71
Salus LLC	Non-Local	March 2022 Memberships	80.00
Brodart Co.	Non-Local	Books	73.30
Martin's Flag Company Co, Inc	Non-Local	Flags	67.06
Baker & Taylor, Inc	Non-Local	Books	66.35
Utility Supply of America, Inc	Non-Local	Supplies	64.17
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	61.00
Northwest Iowa League of Cities	Non-Local	3/24/2022 Meeting	60.00
Stanard & Associates, Inc	Non-Local	Testing Supplies	59.50
Underground Location Company	Non-Local	Locate Services	59.40
Baker & Taylor, Inc	Non-Local	Books	58.15
Dale Vitito	Non-Local	Name Plate	44.99
Ingram Library Services, Inc	Non-Local	Books	38.19

My Buy Local_v1
Payment Date Range: 04/07/2022 - 04/20/2022

Vendor Name	Buy Local Info	Payable Description	Total Payments
Erik E Mosbe	Non-Local	Belt	34.12
Brodart Co.	Non-Local	Books	33.99
Erik E Mosbe	Non-Local	Belt	30.82
Baker & Taylor, Inc	Non-Local	Books	29.62
Marcus Lumber Company Corp	Non-Local	Adhesive	18.98
Ingram Library Services, Inc	Non-Local	Books	37.07
Brodart Co.	Non-Local	Books	18.14
Ingram Library Services, Inc	Non-Local	Books	53.51
W. W. Grainger, Inc	Non-Local	Bands	17.16
Iowa Dept of Agriculture & Land Stewardsh	Non-Local	2022 Prest App License- Vazquez	15.00
UPS	Non-Local	Shipping	12.40
Ingram Library Services, Inc	Non-Local	Books	9.58
Iowa Dept of Agriculture & Land Stewardsh	Non-Local	FY2022 Meter Licenses	9.00
Utility Equipment Co	Non-Local	Clamp Return	-2,507.04
Non-Local Total:		415,619.89	
Payroll/Refunds			
Custodian of Petty Cash	Payroll/Refunds	2022 CG Start up Cash	260.00
Virgil Gaffey	Payroll/Refunds	2022 DOT Physical Reimb	150.00
Mitch McDonald	Payroll/Refunds	3/24/2022 Training Travel Reimb	93.00
Alyssa M Solem	Payroll/Refunds	INOA Conference Travel Reimb	93.00
Dona Glienke	Payroll/Refunds	Shelter House Refund	80.00
Custodian of Petty Cash	Payroll/Refunds	Postage	16.86
Custodian of Petty Cash- Jean Cashman	Payroll/Refunds	Postage	16.70
Beth Ann Dawson McPherren	Payroll/Refunds	March 2022 Homebound Deliveries	5.03
Payroll/Refunds Total:		714.59	
Grand Total:		561,427.85	

Staff Summary

4/18/2022

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: Chris Cole, Police Chief

SUBJECT: Run for Our Future 5k, 10k & Half Marathon Request

BACKGROUND: The Police Department received a request from Chelsea Hogrefe (712 229-5363) of The Bridge of Storm Lake for a walk / run permit for the annual Run for Our Future 5K, 10K and Half Marathon which will take place on Saturday June 18th 2022.

The half marathon will begin 7:00 AM, the 5K and 10K will begin at 8:00 AM. The Half Marathon will begin at the Storm Lake Marina and transition onto the lake trail, 10K will start at the Lakeside Marina and transition to the lake trail, the 5K will start at Methodist Manor transitioning to the lake trail. All races end at the Storm Lake Marina. See attached maps for routes

Event coordinators are requesting a walk / run permit and traffic control at Methodist Manor for the start of the 5K and on Highway 110 for the start of the Half Marathon. The Bridge will submit proof of liability insurance to the city prior to the event.

FISCAL IMPACT: On duty officers will be used for traffic control. This cost will be absorbed by the normal police department operating budget.

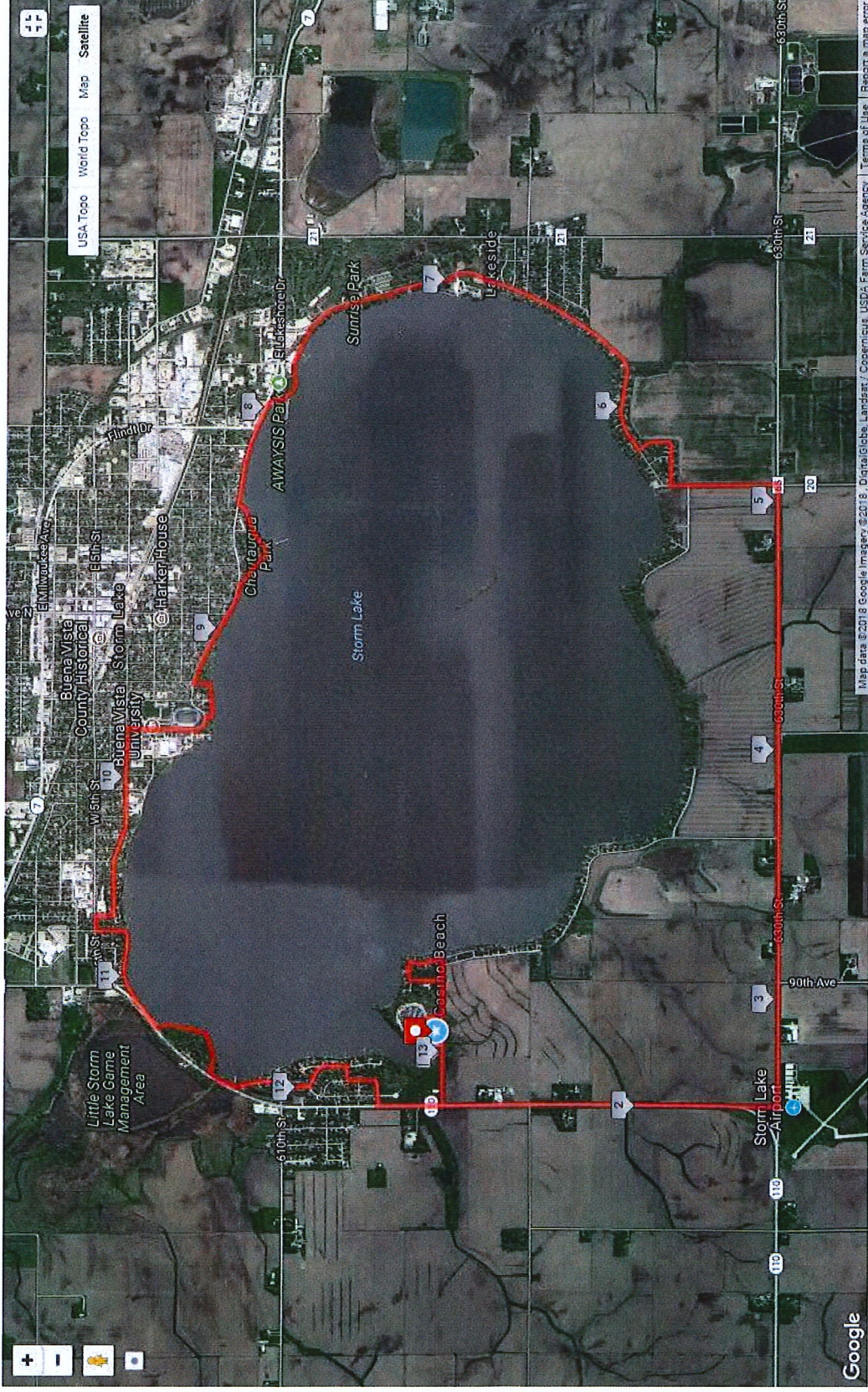
RECOMMENDATION: Approve request upon receipt of insurance.

ATTACHMENTS:

Description
route maps

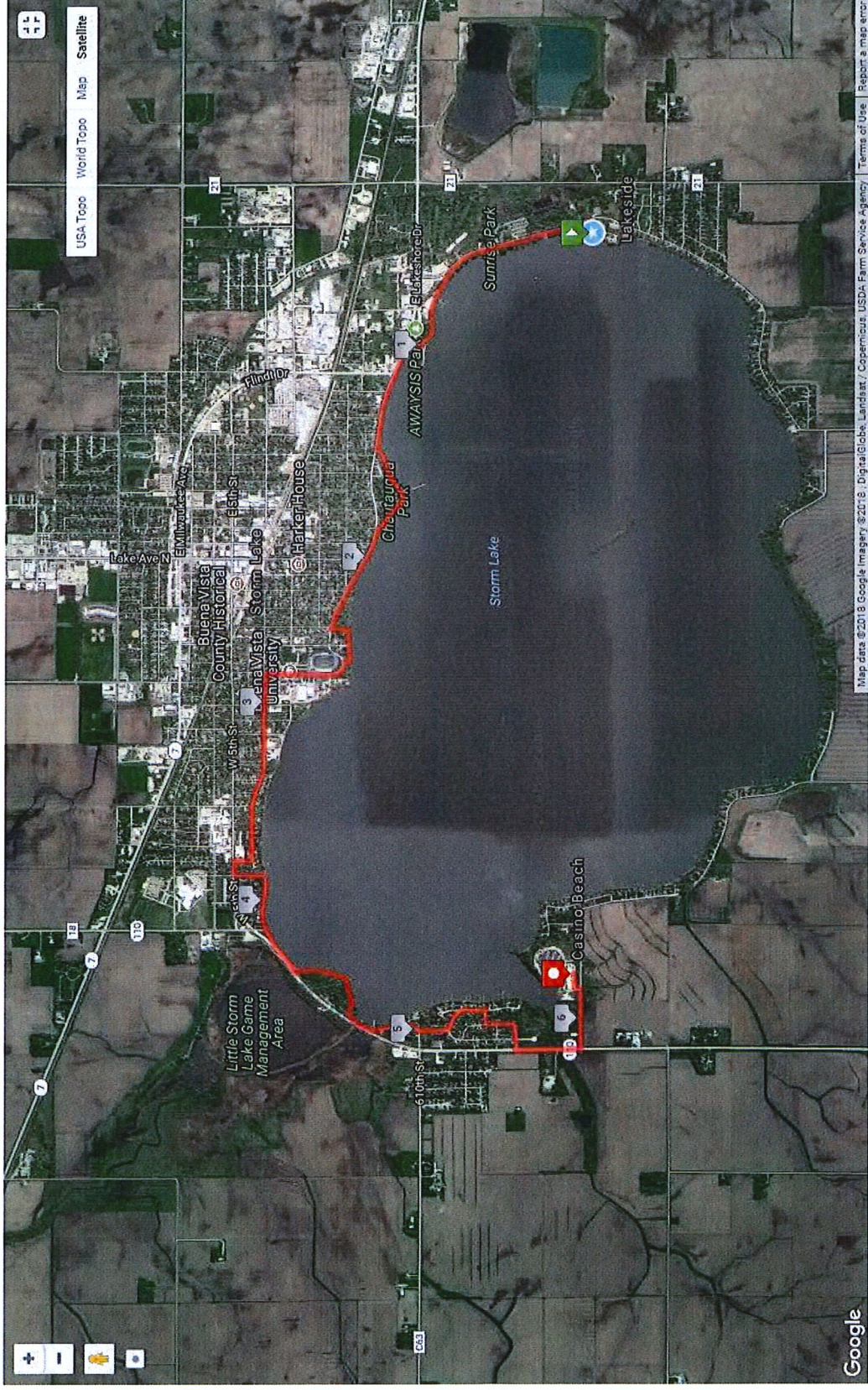
Type
Contract

1/2 Marathon - The Bridge of Storm Lake's Run For Our Future



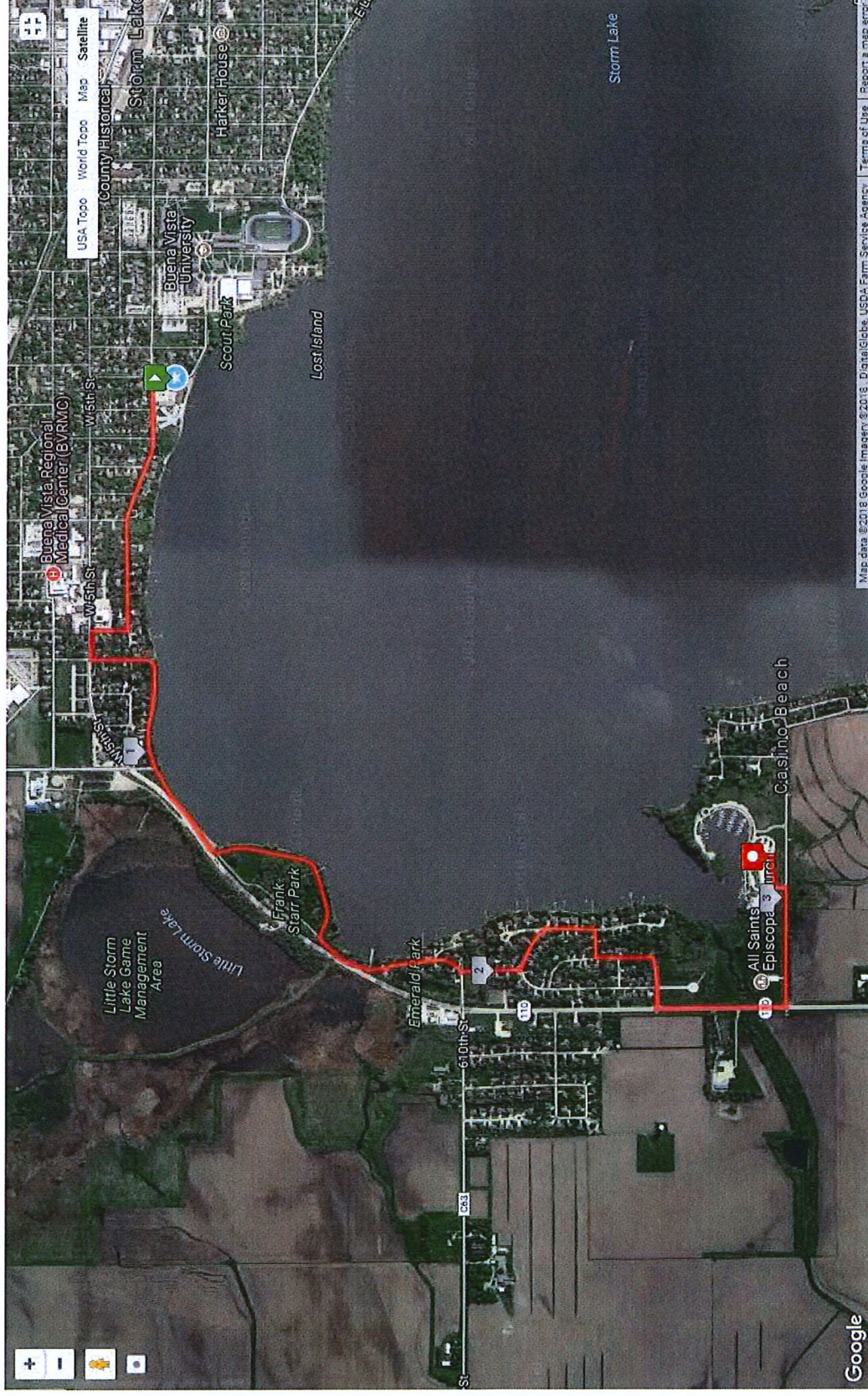
Start @ Finish Line, Casino Beach Loop then out south on Hwy 110 around the lake (Follow signs in switching from Road to Bike Path)

10K (Marina to Marina) - The Bridge of Storm Lake's Run For Our Future



Start in front of Lakeside Marina (Follow signs in switching from Road to Bike Path) Ends in West Marina Parking Lot

5K - The Bridge of Storm Lake's Run For Our Future



Start in front of Lake Pointe Villa (408 Barton St). Ends in West Marina Parking Lot

Staff Summary

4/18/2022

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: Chris Cole, Police Chief

SUBJECT: **BVU Noise Variance Request Buenafication**

BACKGROUND: Attached is a request for an noise variance for the BVU Stadium on April 21st 2022 between 8:30AM and 10AM for amplified music. The request if for the Buenafication Day opening ceremony.

FISCAL IMPACT: None

RECOMMENDATION: Approve request

ATTACHMENTS:

Description	Type
request letter	Contract

April 7, 2022

Chris Cole
Chief of Police
401 East Milwaukee Ave.
Storm Lake, IA 50588

Dear Mr. Cole:

Buena Vista University is preparing for Buenafication Day on April 21. We are requesting a noise variance for the following time:

April 21

8:30am – 10am – Music and PA system to be playing for the Opening Ceremony at the Stadium

We appreciate your consideration of the above request, and if additional information is needed, please contact Megan Wescoat, Director of Community and Student Engagement, at 749-2084. Thank you for your assistance in making this year's Buenafication Day a success.

Sincerely,

Megan Wescoat
Director of Community and Student Engagement
Buena Vista University
610 West 4th Street
Storm Lake, IA 50588

Staff Summary

4/18/2022

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: 3/30/2022 TO 4/12/2022

White Summons – 15

Accumulate Junk – 19
Junk Vehicle – 6
Accumulate Trash – 6
Piles of Branches – 1
CCE – 1

Total – 33

Citations – 1

FISCAL IMPACT: None

RECOMMENDATION: None

Staff Summary

4/18/2022

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: Keri Navratil, City Manager

SUBJECT: **2021 BEST of Iowa Annual Report**

BACKGROUND: Iowa Lakes Corridor will present the 2021 Best of Iowa Annual Report.

FISCAL IMPACT: N/A

RECOMMENDATION:

ATTACHMENTS:

Description	Type
□ Report	Backup Material
□ Iowa Lakes Corridor Laborshed 2022	Backup Material
□ Storm Lake Laborshed 2022	Backup Material



2021 Annual Report



IOWA LAKES CORRIDOR

29 Businesses participated in the Business Expansion & Strategic Trends Surveys

63% of
businesses
working
regular
hours of
production

24% of
businesses
working
additional
hours of
production

38% of
businesses had
top
management
changes

59% of
businesses
have a
succession
plan

Expansion Plans

14 businesses
moving
forward with
existing
expansion plans

15 businesses
would consider
a merger or
acquisition to
grow their
company

7 businesses are on HOLD with
expansion plans

Positive Business Impacts

Increased sales
Money spent on recreation
Opportunities with market demand
Increased efficiency & technology usage

Negative Business Impacts

Supply chain shortages, delays & cost of raw
materials
Lack of workforce
Economic uncertainty

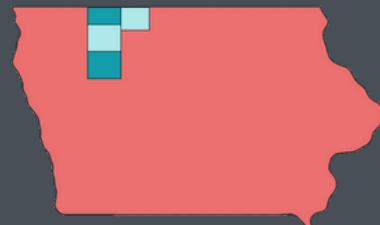
Workforce

76% of businesses interviewed are
experiencing recruitment issues



52% of businesses interviewed
were at pre-COVID staffing levels

Iowa Lakes Corridor Region



in Northwest Iowa

Customer/Supplier Disruption Issues

- Unable to receive supplies in a timely manner
- Suppliers not at full capacity also drives price increases
- Lack of truck drivers and trucking industry overwhelmed
- Major reports of damage, errors on orders and parts are defective once received
- difficult for construction/service industries to bid jobs due to continued cost increases for raw materials

Product Life Cycle

- 12 businesses** state the market share of their key products is increasing
- 10 businesses** have a growing primary product
- 11 businesses** have a maturing primary product
- 21 businesses** introduced new products within the last three years
- 21 businesses** anticipate new products within the next two years
- 20 businesses** anticipate technology changes to their product, production or operations

Market

Over half (66%) of businesses stated their primary markets were national and international

One third (34%) of the companies stated their international sales as a percentage of total sales was increasing or stable

International Sales Percentages
7 businesses stated 1-20%
5 businesses stated 21-40%

Utility Service Ratings

(rating scale 1-7)

- Water - 4.83
- Sewer - 4.93
- Waste Removal - 5.07
- National Gas - 5.38
- Electric - 5.21
- Telecom (voice) - 5.03
- Cellular Service - 5.03
- Internet Access - 4.90
- Internet Speed - 4.79

Technology Infrastructure

79% of businesses interviewed stated the community's technology infrastructure has been adequate for their needs during the pandemic

Community Service Ratings

(rating scale 1-7)

- Police Protection - 5.83
- Fire Protection - 5.86
- Ambulance Paramedic Service - 5.34
- Health Care Services - 5.21
- Child Care Services - 2.83
- School (K-12) - 5.07
- Tech College - 3.21
- Community College - 5.00
- Colleges and Universities - 3.55
- Public Transportation - 2.31
- Traffic Control - 4.31
- Downtown Streetscape - .76
- Streets and Roads (local) - 4.66
- Highways (state & federal) - 4.90
- Airline Passenger Service - 1.31
- Air Cargo Service - 1.86
- Trucking - 4.59
- Housing - .62
- Property Tax Assessment (fair/equitable) - 3.93
- Zoning Changes and Building Permits - 4.00
- Regulatory Enforcement (fair/equitable) - 4.72
- Community Planning - 3.86
- Community Services - 3.07
- County Services - 2.97
- Chamber of Commerce - 3.79
- Economic Development Organization - 5.17
- Downtown/Main Street Organization - .69
- Visitors Bureau - .34
- Workforce Services - 3.39

IOWA LAKES CORRIDOR REGIONAL LABORSHED AREA



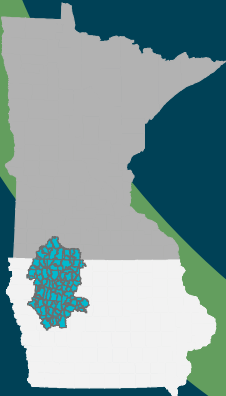
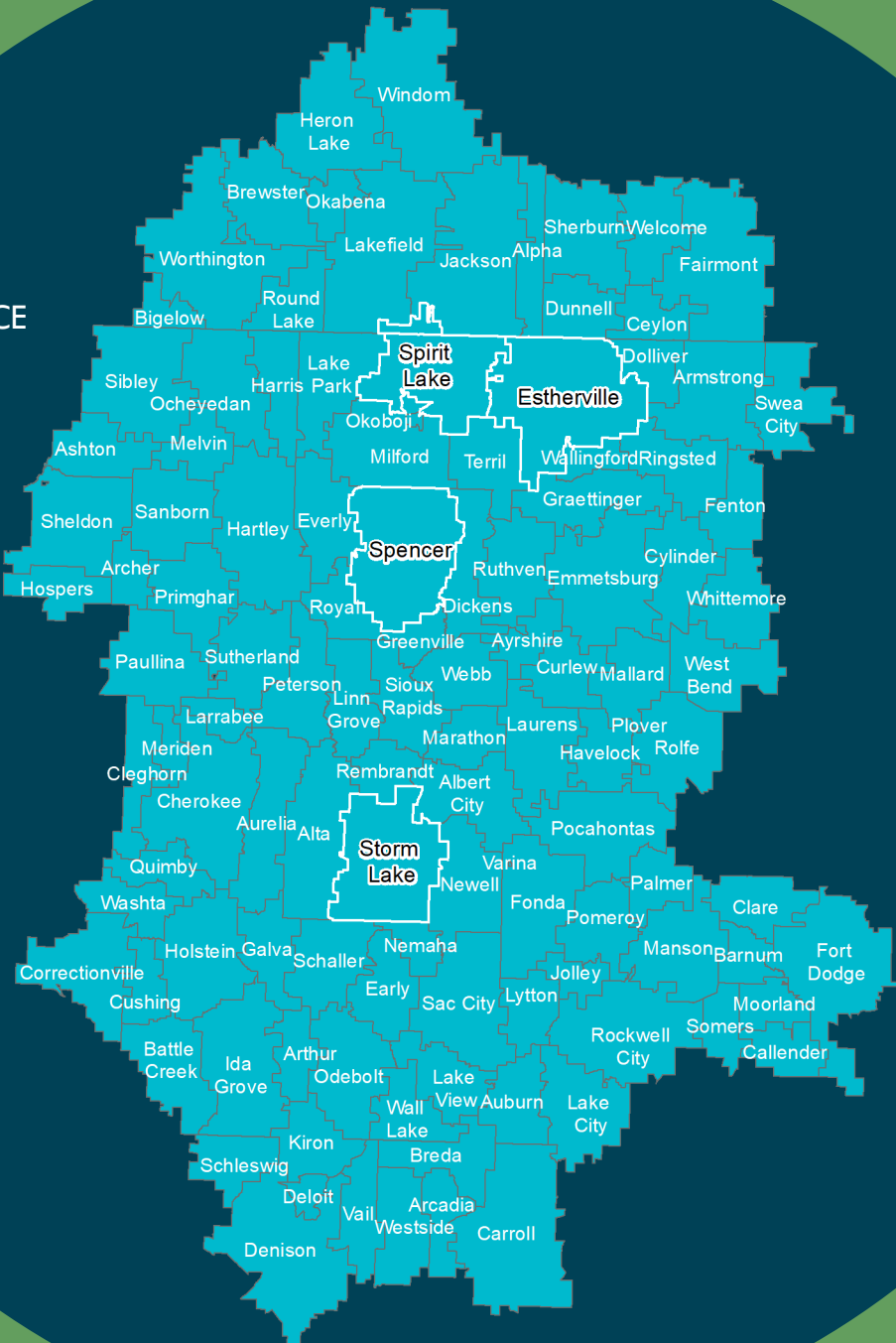
A STUDY IN LABOR AVAILABILITY AND WORKFORCE CHARACTERISTICS
EXECUTIVE SUMMARY

WWW.IOWALMI.GOV/LABORSHED

RELEASED
2022

ESTIMATED POPULATION
AGES 18-64
135,508

TOTAL ESTIMATED LABOR FORCE
AGES 18-64
116,046



AREA SHOWN

IOWA LAKES CORRIDOR REGIONAL LABORSHED ANALYSIS

A Laborshed area is defined by its commuting pattern and illustrates which communities contribute to an employment center's workforce and at what level. To determine the boundaries of a Laborshed area, local employers supply the residential ZIP codes of each of their employees. The data in this publication reflects characteristics specific to the workforce in the Iowa Lakes Corridor Regional Laborshed area.

The employed are currently commuting an average of—



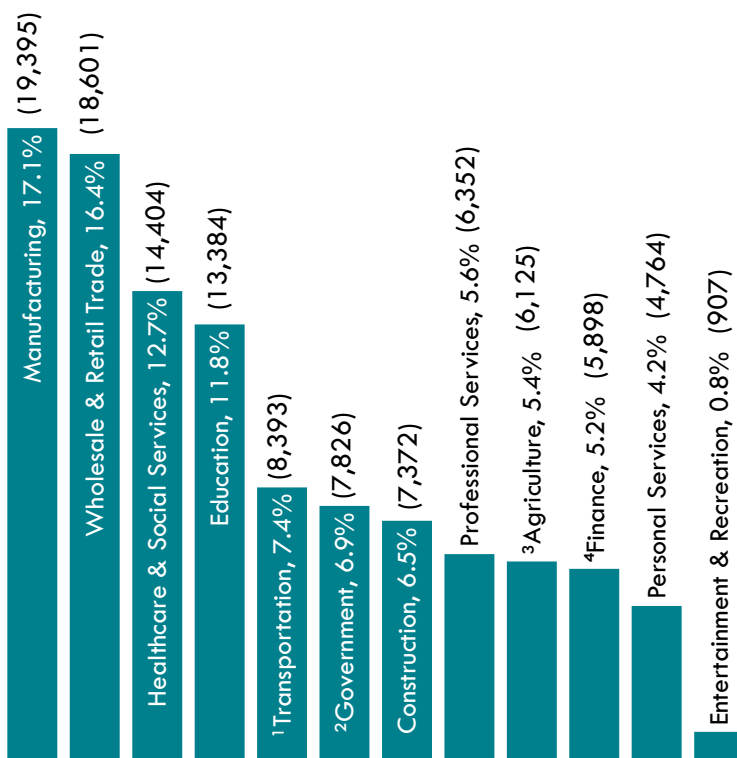
EMPLOYMENT STATUS (ESTIMATED TOTAL)*



*Employment status is self-identified by the survey respondent. The unemployment percentage above does not reflect the unemployment rate published by the U.S. Bureau of Labor Statistics, which applies a stricter definition.



BREAKOUT OF THE EMPLOYED BY INDUSTRY (ESTIMATED TOTAL)



Totals may vary due to rounding.

¹Transportation, Communications, & Utilities
³Agriculture, Forestry, & Mining

²Public Administration, Government
⁴Finance, Insurance, & Real Estate

TOP CURRENT BENEFITS OF THE FULL-TIME EMPLOYED

	Paid Vacation 92.8%
	Health/Medical Insurance 92.5%
	Pension/Retirement/401K 88.0%
	Paid Holiday 85.4%
	Dental Coverage 79.8%
	Life Insurance 79.2%
	Vision Coverage 76.6%
	Disability Insurance 74.1%
	Flex Spending Account 66.9%
	Prescription Drug Coverage 50.6%

EMPLOYED: LIKELY TO CHANGE

- **27.6%** of employed individuals are likely to change their current employment situation for a new opportunity.

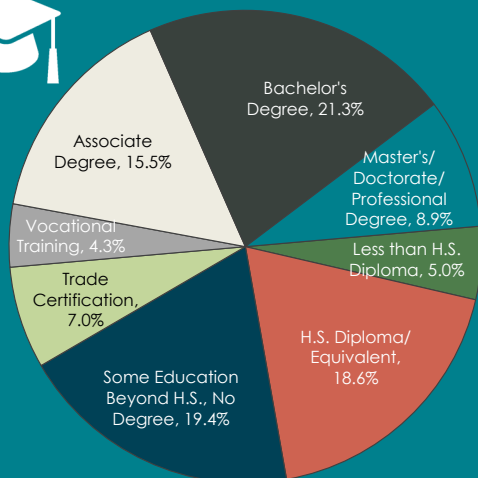
- Current occupational categories:

Production, Construction, Material Moving	29.3%
Professional, Paraprofessional, Technical	24.1%
Service	13.3%
Clerical	12.9%
Managerial	12.4%
Agricultural	4.4%
Sales	3.6%

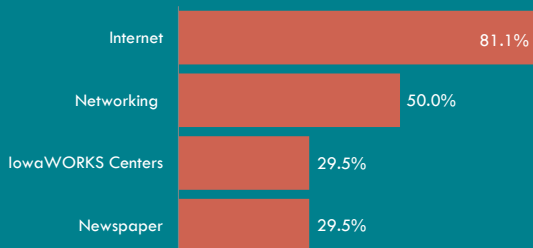
- Current median wages: \$

- \$18.00/hour and \$59,000/year
- \$20.66/hour - attracts 66%
- \$24.00/hour - attracts 75%

- **76.4%** have an education beyond HS



- **18.6%** are actively seeking employment
- Most frequently identified job search resources:



- Top sites:



- Top newspapers:



- Commute:

- Currently commuting an average of **11 miles/16 minutes** (one-way) to work
- Willing to commute an average of **24 miles/30 minutes** (one-way) to work

UNEMPLOYED: LIKELY TO ACCEPT

- **65.5%** of unemployed individuals are likely to accept an employment opportunity.

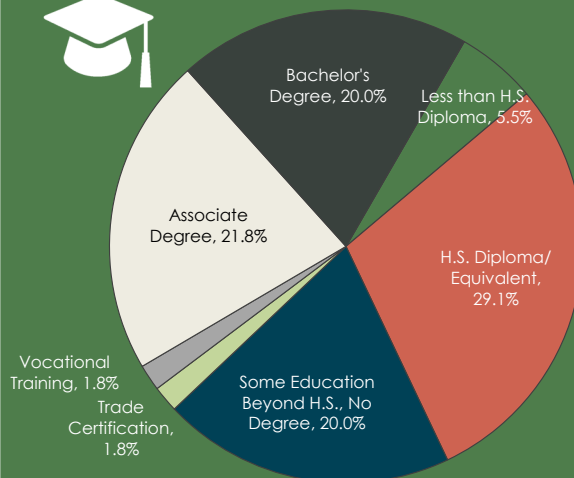
- Former occupational categories:

Production, Construction, Material Moving	29.4%
Service	21.6%
Professional, Paraprofessional, Technical	17.6%
Managerial	11.8%
Sales	9.8%
Clerical	7.8%
Agricultural	2.0%

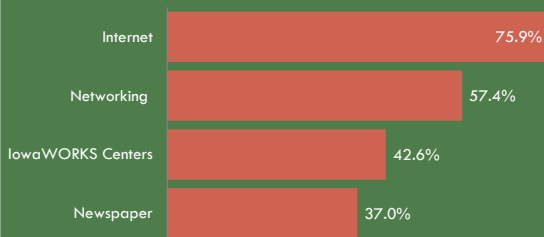
- Median wages: \$

- \$15.00/hour - lowest willing to accept
- \$18.00/hour - attracts 66%
- \$20.00/hour - attracts 75%

- **65.4%** have an education beyond HS



- **54.5%** are actively seeking employment
- Most frequently identified job search resources:



- Top sites:



- Top newspapers:



- Commute:

- Willing to commute an average of **20 miles/28 minutes** (one-way) to work



This regional analysis is based on aggregated data from the Estherville, Spencer, Spirit Lake, and Storm Lake Laborshed studies.

These results are based upon a total of
1,120 completed surveys.

For more data visit:
www.iowalmi.gov/laborshed



EDUCATION OF AVAILABLE LABOR BY INDUSTRY OF CURRENT OR FORMER EMPLOYMENT

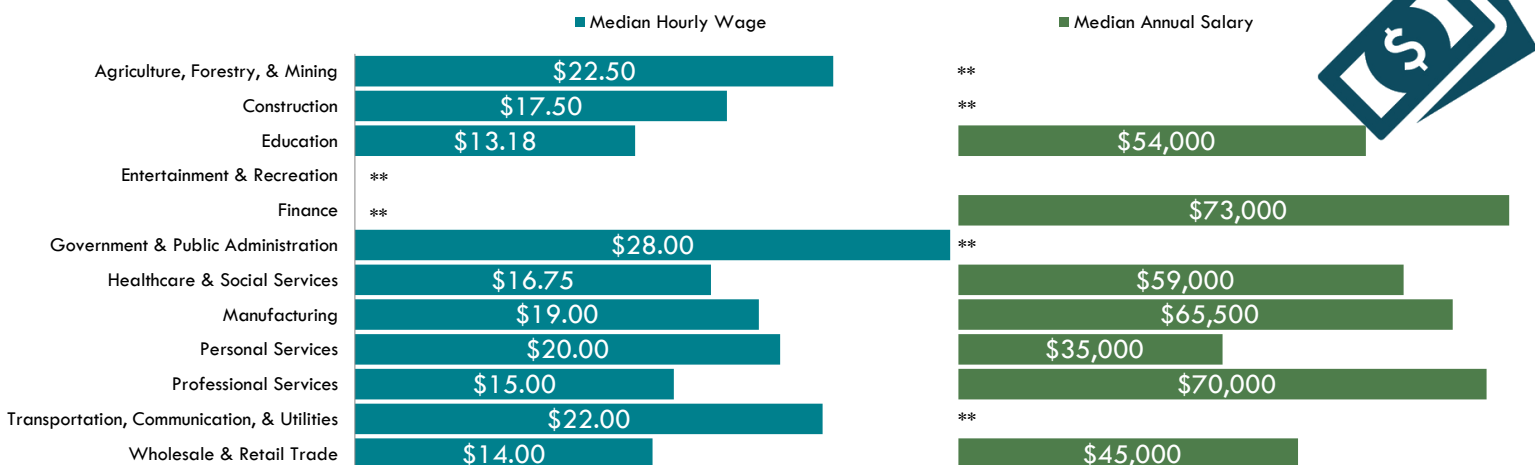
Data on this page is specific to only those survey respondents that reported they are likely to change or accept employment.



Industry	Education Beyond HS	Some Education Beyond HS, No Degree Obtained	Trade Certification/Vocational Training	Associate Degree	Bachelor's Degree or Above
Agriculture, Forestry, & Mining	55.5%	33.3%	0.0%	11.1%	11.1%
Construction	78.5%	35.7%	21.4%	0.0%	21.4%
Education	91.7%	22.2%	2.8%	13.9%	52.8%
Entertainment & Recreation	**	**	**	**	**
Finance, Insurance, & Real Estate	66.6%	11.1%	22.2%	0.0%	33.3%
Government & Public Administration	100%	17.6%	17.6%	17.6%	47.1%
Healthcare & Social Services	83.3%	20.8%	10.4%	22.9%	29.2%
Manufacturing	68.2%	19.7%	9.1%	18.2%	21.2%
Personal Services	72.8%	9.1%	18.2%	18.2%	27.3%
Professional Services	92.3%	34.6%	3.8%	15.4%	38.5%
Transportation, Communication, & Utilities	78.5%	28.6%	35.7%	7.1%	7.1%
Wholesale & Retail Trade	56.9%	20.0%	10.8%	16.9%	9.2%

Top percentages among industries per education level are highlighted in the table. **Insufficient survey data/refused

WAGES OF AVAILABLE LABOR BY INDUSTRY OF CURRENT OR FORMER EMPLOYMENT



**Insufficient survey data/refused. A lack of data for a particular industry is not necessarily indicative that there were no (or few) individuals surveyed within that industry. Rather, it may be that there simply were no respondents within that industry that also reported that they are likely to change or accept employment.

Note: A wide variety of occupations are included within these industry categories. Industry classification is based upon the respondent's reported current or former employer. Two respondents that work for a manufacturer will be classified within the manufacturing industry even if, for example, one respondent is a custodian and the other is an accountant.

UNDEREMPLOYMENT

The underemployed are working fewer than 35 hours per week but desire more hours (**inadequate hours**); in positions that do not meet their skill or education level, or have worked for higher wages at previous employment (**mismatch of skills**); or are earning wages equal to or less than the national poverty level and work 35 or more hours per week (**low income**).

Percent Surveyed		Percent Surveyed	
Inadequate Hours	1.2%	Mismatch of Skills	6.7%
Low Income	0.4%	Σ †Total	7.8%

†Individuals may be underemployed for more than one reason but are counted only once for total estimated underemployment.

Note: To be counted as underemployed in any category an individual must be currently employed and likely to change their current employment situation.

IOWA
WORKFORCE
DEVELOPMENT

IOWA
economic development

Data compiled and analyzed by:
Iowa Workforce Development
Labor Market Information Division
1000 E. Grand Avenue, Des Moines, Iowa 50319
Phone: (515) 281-7505 | Email: laborshed.studies@iwd.iowa.gov
www.iowalmi.gov/laborshed

For more information regarding this Laborshed study contact:
Iowa Lakes Corridor Development Corporation
520 2nd Avenue East, Suite 2
Spencer, IA 51301
Phone: (712) 264-3474 | E-mail: info@lakescorridor.com
www.lakescorridor.com

STORM LAKE, IOWA LABORSHED AREA



A STUDY IN LABOR AVAILABILITY AND WORKFORCE CHARACTERISTICS
EXECUTIVE SUMMARY

WWW.IOWALMI.GOV/LABORSHED

RELEASED
2022

ESTIMATED POPULATION
AGES 18-64

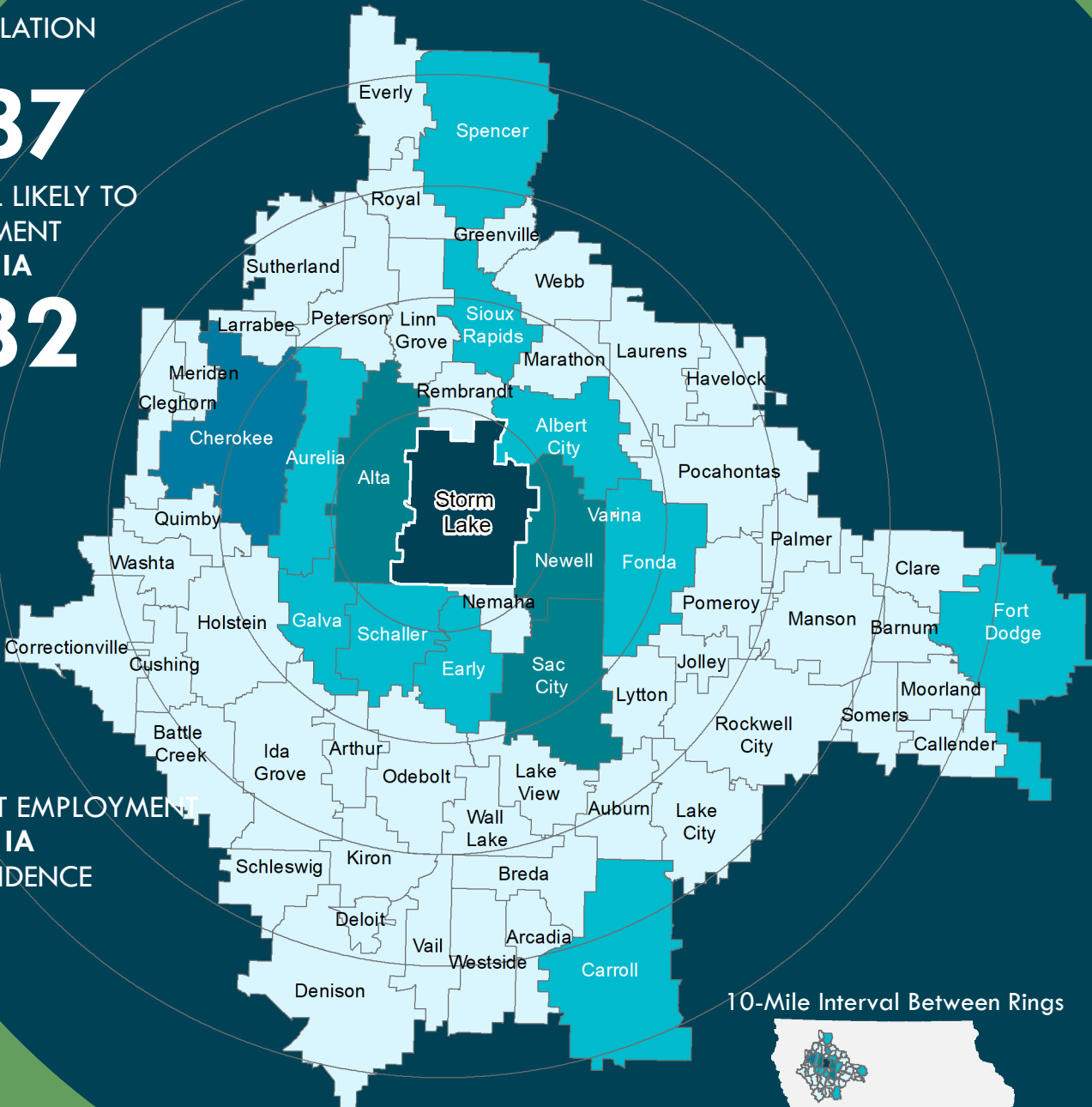
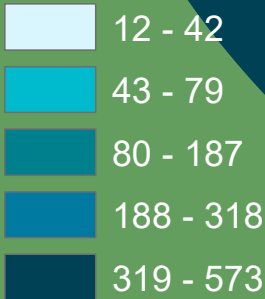
75,587

ESTIMATED TOTAL LIKELY TO
ACCEPT EMPLOYMENT
IN STORM LAKE, IA

10,382



LIKELY TO
CHANGE/ACCEPT EMPLOYMENT
IN STORM LAKE, IA
BY PLACE OF RESIDENCE
(PER ZIP CODE)



10-Mile Interval Between Rings



AREA SHOWN

STORM LAKE LABORSHED ANALYSIS

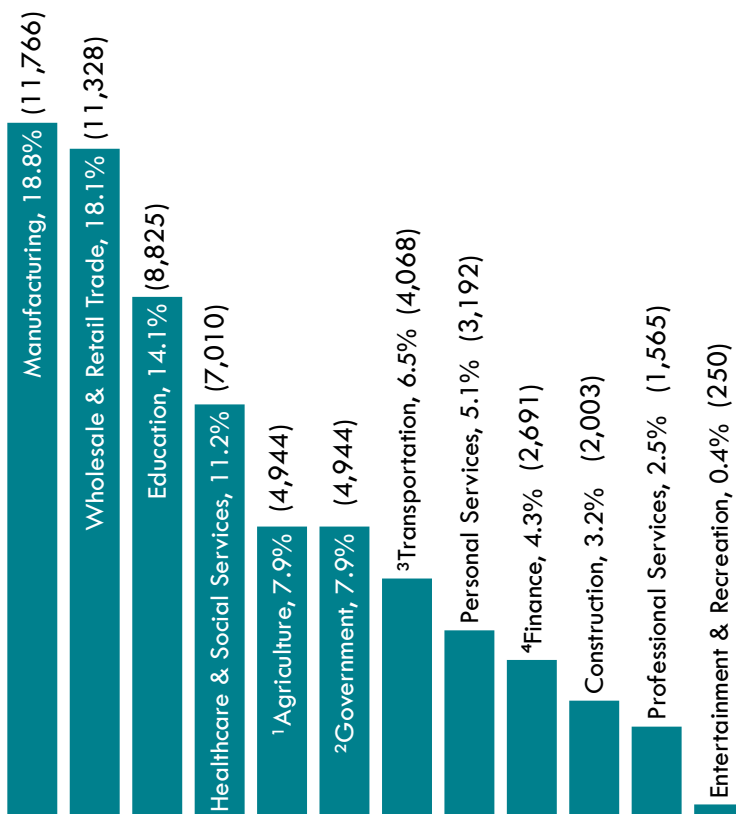
EMPLOYMENT STATUS (ESTIMATED TOTAL)*



*Employment status is self-identified by the survey respondent. The unemployment percentage above does not reflect the unemployment rate published by the U.S. Bureau of Labor Statistics, which applies a stricter definition.
Totals may vary due to rounding.



BREAKOUT OF THE EMPLOYED BY INDUSTRY (ESTIMATED TOTAL)



¹Agriculture, Forestry, & Mining
³Transportation, Communications, & Utilities

²Public Administration, Government
⁴Finance, Insurance, & Real Estate

TOP CURRENT BENEFITS OF THE FULL-TIME EMPLOYED

	Health/Medical Insurance	95.0%
	Paid Vacation	92.7%
	Pension/Retirement/401K	91.3%
	Paid Holiday	84.9%
	Life Insurance	80.4%
	Dental Coverage	78.5%
	Disability Insurance	74.4%
	Vision Coverage	74.0%
	Flex Spending Account	67.1%
	Prescription Drug Coverage	47.0%

A Laborshed area is defined by its commuting pattern and illustrates which communities contribute to an employment center's workforce and at what level. To determine the boundaries of a Laborshed area, local employers supply the residential ZIP codes of each of their employees. The data in this publication reflects characteristics specific to the workforce in the Storm Lake Laborshed area.

The employed are currently commuting an average of—

10

miles one-way for an employment opportunity

&

14 minutes

EMPLOYED: LIKELY TO CHANGE

- An estimated **8,533** employed individuals are likely to change their current employment situation for an opportunity in Storm Lake

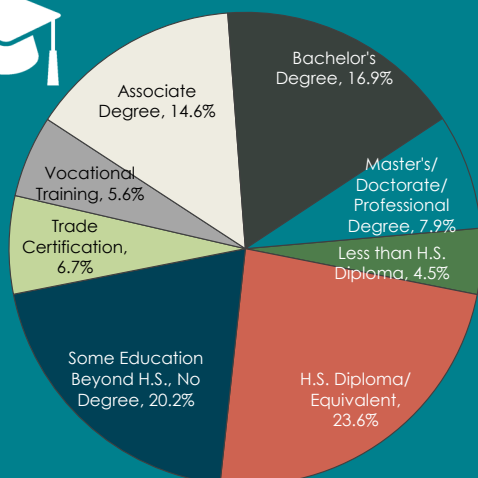
- Current occupational categories:

Production, Construction, Material Moving	30.6%
Clerical	21.2%
Professional, Paraprofessional, Technical	18.8%
Service	12.9%
Managerial	9.4%
Agricultural	4.7%
Sales	2.4%

- Current median wages: \$

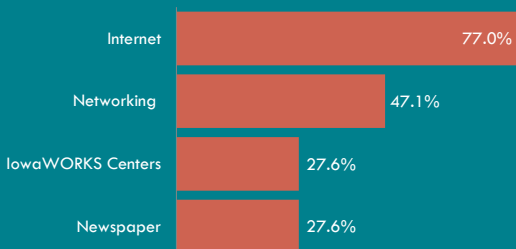
- \$17.00/hour and \$54,000/year
- \$20.00/hour - attracts 66%
- \$22.00/hour - attracts 75%

- 71.9% have an education beyond HS



- 15.7% are actively seeking employment

- Most frequently identified job search resources:



- Top sites:



- Top newspapers:



- Commute:

- Currently commuting an average of **9 miles/13 minutes** (one-way) to work
- Willing to commute an average of **23 miles/29 minutes** (one-way) to work

UNEMPLOYED: LIKELY TO ACCEPT

- An estimated **419** unemployed individuals are likely to accept employment in Storm Lake

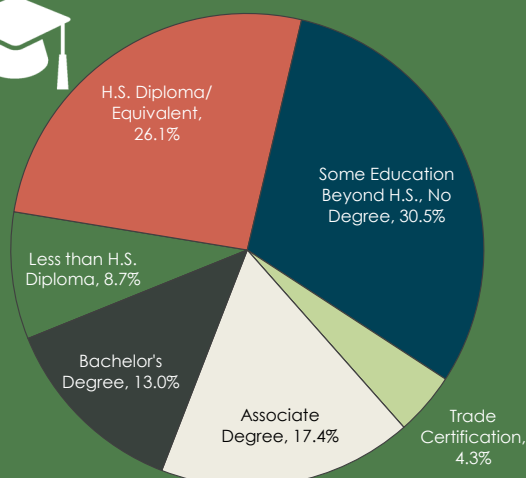
- Former occupational categories:

Production, Construction, Material Moving	28.6%
Professional, Paraprofessional, Technical	23.8%
Service	19.0%
Managerial	14.3%
Sales	9.5%
Clerical	4.8%
Agricultural	0.0%

- Median wages: \$

- \$15.00/hour - lowest willing to accept
- \$16.40/hour - attracts 66%
- \$18.00/hour - attracts 75%

- 65.2% have an education beyond HS



- 69.6% are actively seeking employment

- Most frequently identified job search resources:



- Top sites:



- Top newspapers:



- Commute:

- Willing to commute an average of **24 miles/32 minutes** (one-way) to work



The Laborshed survey collects information regarding the **out commute** for an employment center.

The **out commute** for Storm Lake is estimated at 14.7 percent—approximately **938** people living in Storm Lake work in other communities.

The closest communities Storm Lake residents reported commuting to are Alta, Newell, and Nemaha. The furthest they travel to is Spencer.

More than one-tenth (14.7%) of out commuters are likely to change employment (approximately 402 people).

64.3% earn an annual salary—median salary is **\$55,000/year**
35.7% earn an hourly wage—median wage is **\$19.31/hour**

938

people live in Storm Lake and work elsewhere

EDUCATION OF AVAILABLE LABOR BY INDUSTRY OF CURRENT OR FORMER EMPLOYMENT

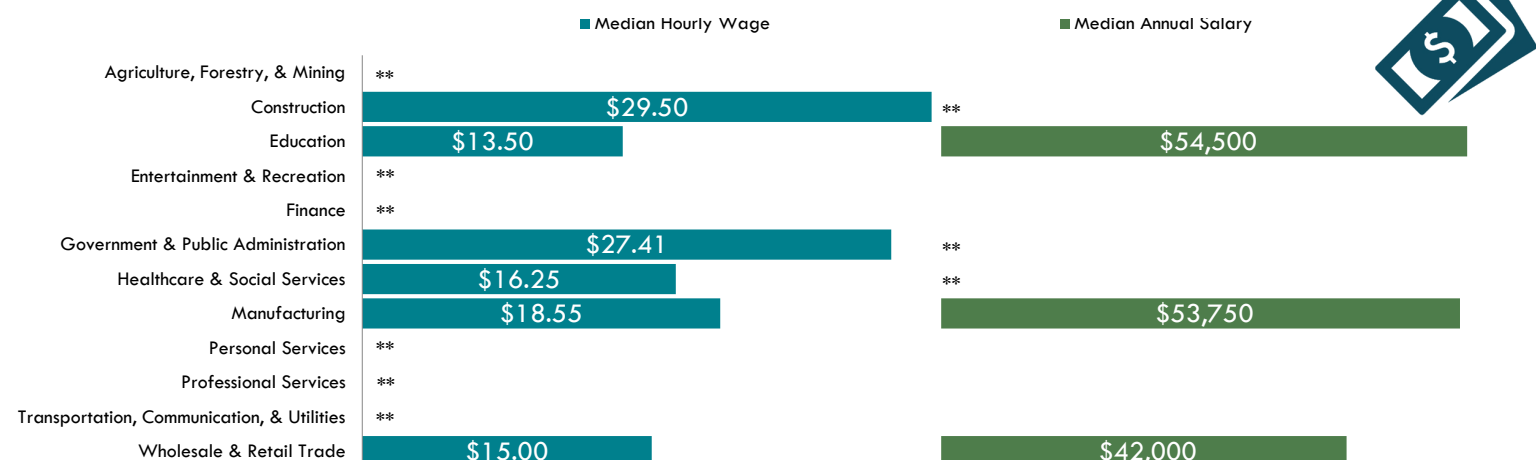
Data on this page is specific to only those survey respondents that reported they are likely to change or accept employment.



Industry	Education Beyond HS	Some Education Beyond HS, No Degree Obtained	Trade Certification/Vocational Training	Associate Degree	Bachelor's Degree or Above
Agriculture, Forestry, & Mining	**	**	**	**	**
Construction	**	**	**	**	**
Education	88.2%	17.6%	5.9%	11.8%	52.9%
Entertainment & Recreation	**	**	**	**	**
Finance, Insurance, & Real Estate	**	**	**	**	**
Government & Public Administration	100%	40.0%	40.0%	0.0%	20.0%
Healthcare & Social Services	68.8%	12.5%	12.5%	37.5%	6.3%
Manufacturing	60.0%	28.0%	4.0%	16.0%	12.0%
Personal Services	**	**	**	**	**
Professional Services	80.0%	60.0%	0.0%	0.0%	20.0%
Transportation, Communication, & Utilities	**	**	**	**	**
Wholesale & Retail Trade	66.7%	23.3%	16.7%	16.7%	10.0%

Top percentages among industries per education level are highlighted in the table. **Insufficient survey data/refused

WAGES OF AVAILABLE LABOR BY INDUSTRY OF CURRENT OR FORMER EMPLOYMENT



**Insufficient survey data/refused. A lack of data for a particular industry is not necessarily indicative that there were no (or few) individuals surveyed within that industry. Rather, it may be that there simply were no respondents within that industry that also reported that they are likely to change or accept employment.

Note: A wide variety of occupations are included within these industry categories. Industry classification is based upon the respondent's reported current or former employer. Two respondents that work for a manufacturer will be classified within the manufacturing industry even if, for example, one respondent is a custodian and the other is an accountant.

UNDEREMPLOYMENT

The underemployed are working fewer than 35 hours per week but desire more hours (**inadequate hours**); in positions that do not meet their skill or education level, or have worked for higher wages at previous employment (**mismatch of skills**); or are earning wages equal to or less than the national poverty level and work 35 or more hours per week (**low income**).

	Percent Surveyed	Estimated Total
 Inadequate Hours	0.7%	60
 Low Income	0.2%	17

	Percent Surveyed	Estimated Total
 Mismatch of Skills	6.7%	572
Σ †Total	7.7%	657

†Individuals may be underemployed for more than one reason but are counted only once for total estimated underemployment.

Note: To be counted as underemployed in any category an individual must be currently employed and likely to change their current employment situation.

IOWA
WORKFORCE
DEVELOPMENT

IOWA
economic development

Data compiled and analyzed by:
Iowa Workforce Development
Labor Market Information Division
1000 E. Grand Avenue, Des Moines, Iowa 50319
Phone: (515) 281-7505 | Email: laborshed.studies@iwd.iowa.gov
www.iowalmi.gov/laborshed

For more information regarding this Laborshed study contact:
Iowa Lakes Corridor Development Corporation
520 2nd Avenue East, Suite 2
Spencer, IA 51301
Phone: (712) 264-3474 | E-mail: info@lakescorridor.com
www.lakescorridor.com

Staff Summary

4/18/2022

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: Scott Olesen, Building & Code Compliance Director

SUBJECT: **Motion Setting A Public Hearing On A Proposed Text Amendment to the Storm Lake Zoning Ordinance To Permit Kennels in the GI Zoning District**

BACKGROUND: There has been a request by Brent Mangold to allow Kennels to be a permitted use in the GI, General Industrial Zoning District. Currently, this is not an allowable use in this Zoning District.

The proposed Kennel use type would appear to be compatible with the uses which are currently permitted in the GI, General Industrial Zoning District.

I have attached the proposed text amendment for your review.

Before a text amendment may be approved by the City Council, a written recommendation must be provided by the Planning and Zoning Commission.

FISCAL IMPACT: Cost of public notices and legal fees estimated at \$200.00.

RECOMMENDATION: Approve setting the public hearing for May 2nd, 2022 at the Council Chamber at City Hall.

ATTACHMENTS:

Description	Type
Public Hearing Notice	Backup Material

**NOTICE OF PUBLIC HEARING FOR PUBLICATION
CITY COUNCIL
CITY OF STORM LAKE**



File number: **2022-2**

Date: **April 18, 2022**

A petition for a Text Amendment to the Storm Lake Zoning Ordinance to Permit Kennels as a Permitted use in the GI, General Industrial District has been filed by Brent Mangold.

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

The petition requests approval to allow for kennel businesses as a permitted use in the General Industrial zoning district. The proposed text changes to permit such an additional use are as follows:

- b. In “Article Four - Base Zoning District Regulations,” “Table 4-2-Permitted and Conditional Uses By Zoning Districts”, under “Commercial Uses, on page 4-10, ” insert “P” in the “GI” column of the “Kennels” row.

A public hearing will be held by the City Council on May 2nd, 2022 at 5:00 p.m. in the City Hall Council Chambers at which time you may appear if you so desire, either in person or by agent or attorney, in opposition to or support of the proposed text amendment change to the Zoning Ordinance.

Respectfully submitted,

Scott Olesen
Zoning Administrator

Staff Summary

4/18/2022

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: Glenn Schlessor, Fire Chief

SUBJECT: **Motion to Approve Submittal for the Iowa Local Fire Protection & Emergency Medical Services Grant**

BACKGROUND: The Storm Lake Fire Department will be submitting a grant to the Iowa Department of Public Safety, State Fire Marshal Division on May 1st, seeking grant funding in the amount of 4,340.00

This will allow us to replace structural firefighting gloves and hoods. These are items that wear the fastest and are replaced the most. If awarded all members will be outfitted and it will allow us to have replacements in house if other funding sources are approved for these items.

FISCAL IMPACT: The grant is fully paid if awarded.

RECOMMENDATION: Approve submittal for the Iowa Local Fire Protection & Emergency Medical Services Grant

ATTACHMENTS:

Description	Type
📎 Fire Department Grant Package	Application

IOWA LOCAL FIRE PROTECTION & EMERGENCY MEDICAL SERVICES GRANT PROGRAM

QUICK LINKS

-  [Iowa Code Chapter 100.19](#)
-  [Iowa Administrative Rule Chapter 661-265](#)

THE LOCAL FIRE PROTECTION & EMERGENCY MEDICAL SERVICES GRANT APPLICATION

PERIOD FOR 2021-2022 IS CLOSED.

THE 2022-2023 GRANT APPLICATION WILL BE ACCEPTED
BEGINNING MAY 1, 2022.

[Local Fire Protection & Emergency Medical Services Grant Program application form](#)

Please download the fillable PDF grant application form above, complete page 1 with your agency information, complete the applicable grant request page(s) as indicated, and return to the State Fire Marshal Division by email at sfmfireworks@dps.state.ia.us or mail it to 215 East Seventh Street, Des Moines, Iowa, 50319, Attention: LFPEMS Grant Program.

Purpose: The local fire protection and emergency medical service providers grant program is established by the State Fire Marshal. The grant program shall be funded with only those moneys from the consumer fireworks fee fund which are not needed by the state fire marshal to fulfill the responsibilities of the state fire marshal for the administration and enforcement of Iowa Code sections 100.19 and 100.19A. The State Fire Marshal shall determine a minimal operational carryover balance needed for the next year start up fiscal obligations prior to dispersing grant awards.

Authority: The State Fire Marshal may request grant applications be reviewed by the Fire Service and Emergency Response Council during a regular meeting of the council. The State Fire Marshal has the sole discretion in determining whether or not to award funds from the grant program to the applicant and the amount of funds awarded to each applicant. Recommendations from the Fire Service and Emergency Response Council may be considered by the State Fire Marshal to avoid conflict of interest.

of the state may apply for grant funds from the local fire protection and emergency medical service providers grant program. Special programs within a fire department or EMS department may apply for grant monies so long as they are authorized to do so by their respective department.

Authorized purposes of grant funds: The grant funds in the local fire protection and emergency medical service providers grant program may be used for the following:

- To establish or provide fireworks safety education programming to members of the public.
- To purchase necessary enforcement, protection, or emergency response equipment related to the sale and use of consumer fireworks in this state.
- To purchase necessary enforcement, protection, or emergency response equipment.

Grant priority funding: The priority for grant awards shall be as follows:

Top priority tier:

- Applications which seek to provide education into fireworks laws, local ordinances related to fireworks, education materials related to fireworks safety or the prevention of fireworks injuries.

Second tier consideration:

- Applications which seek equipment used to permit or enforce licensing and site enforcement specifically related to the regulation of consumer fireworks.
- Applications which are related to data collection and research as to injury trends and incidents related to consumer fireworks in Iowa.
- Applications for equipment which will only be used in response to consumer fireworks emergencies.
- Applications which seek medical supplies for the treatment of fireworks related injuries.
- Applications which seek equipment used in response to other fire and medical emergencies.

Application verification: Applicants shall provide enough data and facts related to their grant requests to support a specific nexus on how the grant is being used to address issues related to consumer fireworks or to fulfill specific department equipment needs related to necessary enforcement, protection, or emergency response in the department's community. The agency awarded a grant shall provide evidence, or submit to an inspection or audit by the State Fire Marshal, to determine compliance with the rules and purposes of the grant program, in addition to any other authorized audits.



COMMISSIONER'S OFFICE



ADMINISTRATIVE SERVICES



DIVISION OF CRIMINAL INVESTIGATION



DIVISION OF INTELLIGENCE AND FUSION CENTER





MUNICIPAL EMERGENCY SERVICES

124 East First Street
Deer Creek, IL 61733

Quote

Quote # QT1571931 Date 04/08/2022

Expires 04/23/2022
Sales Rep Butler, Thomas
PO # none
Shipping Method FedEx Ground
Customer Storm Lake Fire Department (IA)
Customer # C204853

Bill To

Glenn Schlesser
Storm Lake Fire Department
820 Oneida St.
Storm Lake IA 50588

Ship To

Glenn Schlesser
Storm Lake Fire Department
820 Oneida St.
Storm Lake IA 50588

Item	Alt. Item #	Units	Description	QTY	Unit Price	Amount
FC-1000-XL- Regular			Flame Glove - Gauntlet Cuff	28	\$112.00	\$3,136.00
3049298			Carbon Shield (Carbon X) COBRA Ultimate Fire Fighting Hood	28	\$43.00	\$1,204.00

Subtotal \$4,340.00

Shipping Cost \$0.00

Tax Total \$0.00

Total \$4,340.00

This Quotation is subject to any applicable sales tax and shipping & handling charges that may apply. Tax and shipping charges are considered estimated and will be recalculated at the time of shipment to ensure they take into account the most current information.

All returns must be processed within 30 days of receipt and require a return authorization number and are subject to a restocking fee.

Custom orders are not returnable. Effective tax rate will be applicable at the time of invoice.





**Iowa Department of Public Safety - State Fire Marshal Division
Local Fire Protection & Emergency Medical Services Grant Program
Application**

Clearly print or type and email completed form to sfmfireworks@dps.state.ia.us by June 30.

Clear Form

Name of Agency:

Storm Lake Fire Department

Agency Address:

820 Oneida Street

Agency Contact Name:

Glenn Schlessner

Agency Contact Phone Number:

(712) 732-8010

Agency Contact Email Address:

Schlessner@stormlake.org

Signature of owner or person authorized to sign for the agency:

Printed name of owner or person authorized to sign for the agency:

Glenn Schlessner

What grant request are you applying for?

- ☐ Safety education programming request (complete page 3)
- ☐ Firefighting turnout gear washer-extractor grant request (submit required documentation as indicated on page 4)
- ☒ Equipment request (complete page 5)

GENERAL GRANT GUIDELINES/EXAMPLES:

Grant priority funding is two-tier:

1) Top Priority Tier:

- a) Applications which seek to provide education into fireworks laws, local ordinances related to fireworks, education materials related to fireworks safety or the prevention of fireworks injuries.

i) Examples:

- (1) Consumer fireworks public safety announcements (radio, TV, social media)*
- (2) School safety education packets*
- (3) Education on burn first aid treatment*

2) Second Tier Consideration:

- a) Applications which seek equipment used to permit or enforce licensing and site enforcement specifically related to the regulation of consumer fireworks.
- b) Applications which are related to data collection and research as to injury trends and incidents related to consumer fireworks in Iowa.

i) Examples:

- (1) Computer and peripheral equipment for department staff to complete site inspections*

- c) Applications for equipment which will only be used in response to consumer fireworks emergencies.

i) Examples:

- (1) Clothing and equipment for wildland/grass fire fighting*

- d) Applications which seek medical supplies for the treatment of fireworks related injuries.

i) Examples:

- (1) Burn treatment first aid kits*

- e) Applications which seek equipment used in response to other fire and/or medical emergencies.

i) Examples:

- (1) Bunker/turnout gear*
- (2) First aid kits*
- (3) Specialized hose and nozzle equipment*

SAFETY EDUCATION PROGRAMMING REQUEST:

Detailed description of education programming:

Specific people who will be providing the programming:

Description of materials to be purchased and used for education programming:

Justification as to how the safety education programming purchase fits the purpose of the grant program:

Total amount requested for safety education programming purchase:

FIREFIGHTING TURNOUT GEAR WASHER-EXTRACTOR GRANT REQUEST:

Detailed description of equipment:

The State Fire Marshal will provide, through this competitive application process, a 30 lb. firefighting turnout gear washer/extractor (including soap dispenser and associated installation), so as long as the requesting fire department provides all utility connections and their proper sizing in accordance with equipment manufacturer specifications; including water, air, gas, electrical, sewer, and venting as required.

The awarded fire department will be responsible for any future purchase of consumables (soap, etc.) and maintenance of said equipment.

Must attach evidence of electric, water source, and drain with grant request. Photographs of available utilities is preferred. Evidence of installation of extractor is required.

If you will be installing electric, water source, and/or drain, provide copies of bid documents for the work and timeline of completion. Once utilities have been installed, proof of installation of the extractor will also be required.

Company or entity from which the purchase will be made:

BDS Laundry

Total amount requested for equipment purchase:

\$7,052

EQUIPMENT REQUEST:

Detailed description of equipment:

Company or entity from which the purchase will be made:

Is the equipment request related to consumer fireworks safety? ☒ Yes ☐ No

If the equipment request is related to consumer fireworks, provide justification as to how the equipment purchase fits the purpose of the grant program:

The Storm Lake Fire Department is seeking grant funding in the amount of 4,340.00 for the purchase of 28 pairs of structural firefighting gloves and 28 Nomex hoods. Annually the City of Storm Lake has four or more locations that sell retail consumer fireworks on a seasonal basis. A fifth permanent structure for the sales and storage of retail consumer fireworks is currently in the permitting and licensing process.

If this grant were to be awarded it would allow the Storm Lake Fire Department to issue all members of the organization updated equipment. This would replace the currently issued equipment that is nearing or at the end of its serviceable life for front line fire suppression use in response to a fireworks related emergency.

Total amount requested for equipment purchase:

Staff Summary

4/18/2022

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: Brian Oakleaf, Finance Director

SUBJECT: **Motion Setting A Public Hearing on Ordinance Changing Water and Sewer Rates**

BACKGROUND: Typically the City conducts a rate study and establishes a rate schedule every five years. With the size, scope and variable cost estimates connected to the BRIC projects and funding, an accurate estimate of revenue needs over 5 years is impossible. Instead, we will suggest a single year rate change for water and sewer based on current operation and capital costs and prepare a 5 year plan when more BRIC decisions have been made.

Prior to the first reading of the Ordinance that would change these rates, Notice must be published and a Public Meeting must be held.

FISCAL IMPACT: As this Motion simply sets the Public Hearing for the rate study, the cost of publication is the only current impact.

RECOMMENDATION: Set the Public Hearing on the Rate Recommendations for 5:00 pm, May 2nd, 2022.

ATTACHMENTS:

Description	Type
Public Hearing Notice - Water and Sewer Rate Increase	Backup Material

NOTICE OF PUBLIC HEARING

Notice is hereby given that the City Council of the City of Storm Lake, Iowa will hold a public hearing on Water and Sewer Rate Increase Recommendations.

This public hearing will be held by the City Council at City Hall on May 2, 2022, at 5:00pm. At said time and place, any person(s) interested is invited to appear to present their objections to or arguments for the rate increase recommendations.

Mayra A. Martinez, City Clerk
City of Storm Lake, Iowa

Staff Summary

4/18/2022

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: Brian Oakleaf, Finance Director

SUBJECT: **Motion Setting Public Hearing On Fiscal Year 2021-2022 Budget Amendment**

BACKGROUND: The City is required to amend the budget anytime expenses are estimated to exceed the prior authorized budget authority as set by City Council.

Prior to adoption of the budget amendment the City must hold a public hearing and publish notice. Passage of this motion will set the official public hearing date for Monday, May 2nd, 2022 at 5:00 p.m. and directs the City Clerk to publish notice of the hearing as required by State of Iowa law.

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

RECOMMENDATION: Set the public hearing for Monday, May 2nd, 2022 at 5:00 P.M.

Staff Summary

4/18/2022

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: Ron Covert, Water Quality Operations Supervisor

SUBJECT: **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, RV dump stations, 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.

FISCAL IMPACT: The Engineer's Opinion of Probable Construction Cost is \$211,610.00.

RECOMMENDATION: Open Public Hearing
Hear Comments
Close Public Hearing

ATTACHMENTS:

Description

Type

📁	Notice of Public Hearing	Backup Material
📁	Project Manual	Backup Material
📁	Engineer's Estimate of Construction Cost	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

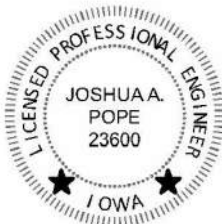
SECTION 00005 – CERTIFICATION

PROJECT MANUAL

for

2022 4th Street Watermain Improvements

City of Storm Lake

	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.  _____ Date: <u>2/15/2022</u> Joshua A. Pope License No. 23000 My renewal date is 12/31/2023 Pages or sheets covered by this seal: <u>All Pages</u>
---	---

ADDENDUM NO. 1

Project Description: 4th Street Watermain Improvements

Owner: City of Storm Lake

Bid Date: April 6, 2022

Bid Time: 2:30 PM

Date: March 4, 2022

BMI Project No.: OP1.125220

City Project No.:

QuestCDN No.: 8133017

1.01 GENERAL:

The following changes are, by the issuance of this Addendum, made a part of the Contract Documents for the project referenced above, as if originally contained therein. Execution of the acknowledgment on the bid form shall be the bidder's acceptance of the conditions set forth herein.

1.02 ACKNOWLEDGMENT:

This addendum shall be acknowledged on the submitted bid form. Failure to do so may result in the rejection of the bid.

1.03 PROJECT MANUAL:

A. Section 00100 – NOTICE TO BIDDERS

1. **Modify** paragraph TIMING AND PLACE FOR FILING SEALED PROPOSALS to read as follows:

Sealed proposals for the work comprising the repair or improvement as state below must be filed before 2:30 PM on April 6, 2022, in the office of the City Clerk, 620 Erie Street, Storm Lake, IA 50588.

2. **Modify** paragraph TIME AND PLACE SEALED PROPOSALS WILL BE OPENED AND CONSIDERED to read as follows:

Sealed proposals will be opened and bids tabulated at 2:30 P.M. on April 6, 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 April 18, 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.

1.04 PLAN SET:

A. None

1.05 ATTACHMENTS:

A. None

1.06 CERTIFICATION:

I hereby certify that this addendum was prepared be me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Iowa.

By: 

Joshua A. Pope, P.E.
License No: 23600
Date: 12/31/2023

*****END OF ADDENDUM NO. 1*****

ADDENDUM NO. 2

Project Description: 4th Street Watermain Improvements

Owner: City of Storm Lake

Bid Date: April 6, 2022

Bid Time: 2:30 PM

Date: March 24, 2022

BMI Project No.: OP1.125220

City Project No.:

QuestCDN No.: 8133017

1.01 GENERAL:

The following changes are, by the issuance of this Addendum, made a part of the Contract Documents for the project referenced above, as if originally contained therein. Execution of the acknowledgment on the bid form shall be the bidder's acceptance of the conditions set forth herein.

1.02 ACKNOWLEDGMENT:

This addendum shall be acknowledged on the submitted bid form. Failure to do so may result in the rejection of the bid.

1.03 PROJECT MANUAL:

A. Section 00410 – PROPOSAL

1. Revised Proposal Attachment – Part C Bid Items and Quantities

- a. Re-issued with the updated items and quantities.

B. Section 02510 – WATER SUPPLY FILL STATION

1. PART 2 – PRODUCTS

- a. Revised Subsection 2.3, Part B – Galvanized Overhead Fill Support by adding the following requirements to the unit.
 - 1) The fill arm shall be able to rotate 180 degrees, with 0 degrees being to the north, 90 degrees to the west and 180 degrees to the south so that users can use the overhead fill pipe from either the north or south side of the bulk sales unit.
 - 2) At a minimum the arm shall be able to be locked in place at the 0 degree (N), 90 degree (W) and 180 degree (S) points
 - 3) It is not required to limit the ability to deliver the water at only the locked positions.

1.04 PLAN SET:

- A. The entire plan set is being re-issued as changes to the locations of the bulk water sales unit and addition of the RV dump station are reflected on several of the sheets and includes changes to the quantities.

- 1. The set shall be noted as Revision #1 – Re-Issued for Bid – 03/22/2022 in the revision block of each sheet.
- 2. Addition of an RV Dump Station Lump Sum Item which shall include the following:

- a. Holding Tank
 - 1) Shall be a 1,000 gal single compartment concrete septic tank as manufactured by Northwest Concrete Products, Storm Lake, IA or approved equal.
 - 2) Influent and Effluent piping shall be installed as per standard septic tank installation.
 - 3) 2 – 4” diameter watertight Dump Station inlet sleeves shall be integrally cast into the top slab of the unit during manufacture.
 - 4) Dump Station inlet piping shall extend to a minimum of 6” below the normal water level.
- b. Drain Pad and Dump Station Lid
 - 1) Drain Pad shall be 6” nominal thickness and shall be sloped to drain as detailed.
 - i) Concrete shall be the same as used for the 6” PCC Driveway construction.
 - 2) Dump Station Lid shall be ductile iron/metal with foot pedal, lockable feature, threaded NPT connection and mount flush with drain pad concrete.
 - i) Dump Station Lid shall be as supplied by RVParkSupplies.com or approved equal.

1.05 **ATTACHMENTS:**

- A. Revised Proposal Section – Part C
- B. Revision #1 Plan Set dated 03/22/22

1.06 **CERTIFICATION:**

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

By:  _____

Joshua A. Pope, P.E.
License No: 23600
Date: 12/31/2023

******END OF ADDENDUM NO. 2******

2022 4th Street Watermain Improvements
City of Storm Lake

PROPOSAL ATTACHMENT: PART C – BID ITEMS AND QUANTITIES – *REVISED, ADDENDUM 2*

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	435	\$	\$
2	REMOVAL OF KNOWN PIPE AND CONDUIT, WATERMAIN, 4"	LF	175	\$	\$
3	TRENCH FOUNDATION	TON	10	\$	\$
4	SANITARY SEWER SERVICE STUB, PVC, 4"	LF	46	\$	\$
5	4" ON 4" SANITARY SEWER SERVICE WYE	EA	1	\$	\$
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	255	\$	\$
21	DRIVEWAY, PAVED, PCC, 6"	SY	400	\$	\$
22	CONCRETE REMOVAL	SY	115	\$	\$
23	AGGREGATE, CLASS A	TON	24	\$	\$
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	12	\$	\$
32	RV DUMP STATION	LS	1	\$	\$
			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

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

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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
- ☐ Fax/Send

RE:

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 Gruzlok.
 - (b) Gasket: Grade M flush seal gasket.
2. Steel Pipe Couplings
 - (a) Coupling: Victaulic Style 77 or Style 07 or equivalent Grinnell Gruzlok.
 - (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

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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

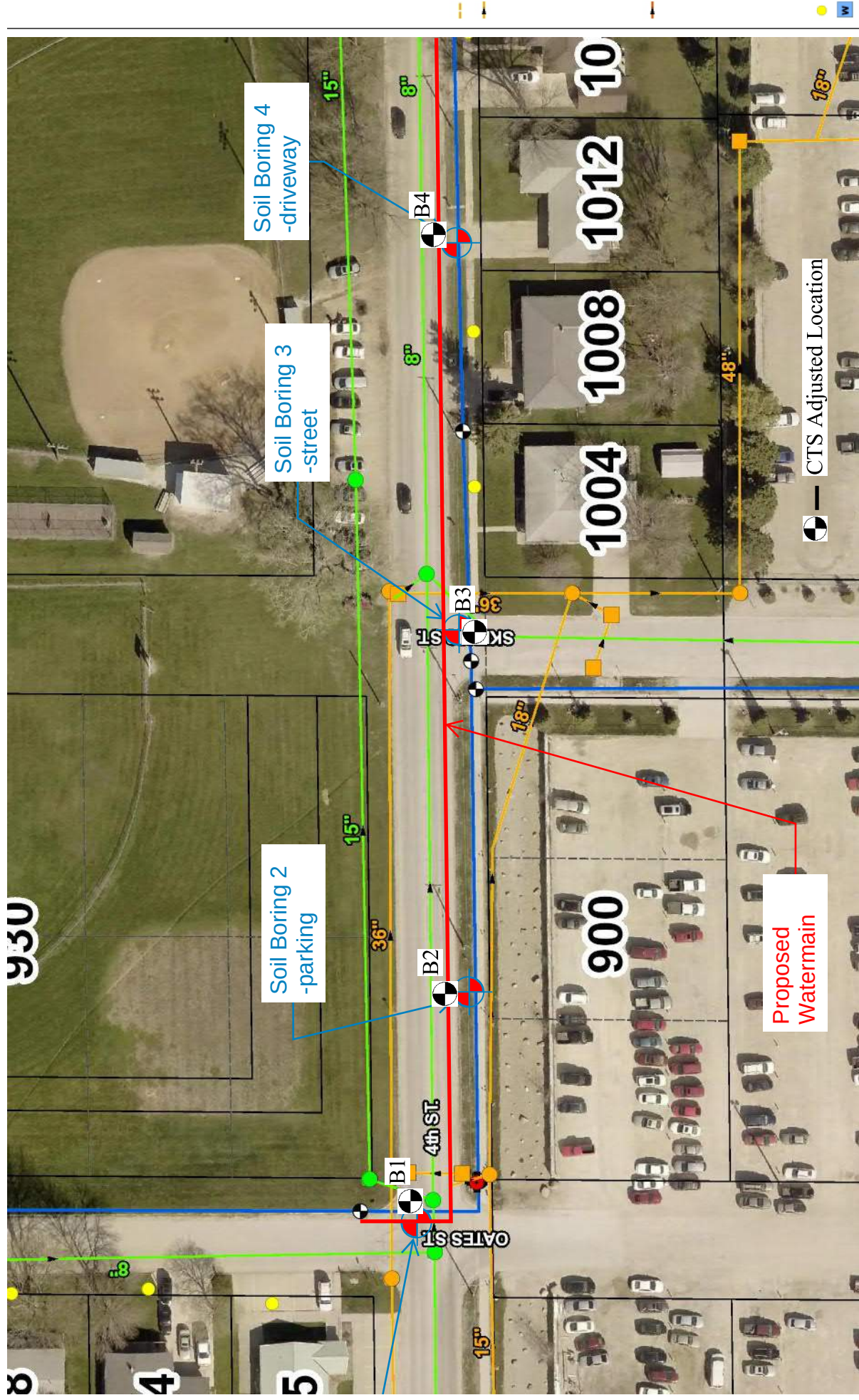
The recommendations submitted are based on the available subsurface information obtained by CTS and design details furnished by Mr. James D. Leiding, P.E. of Bolton & Menk, Inc. If deviations from the subsurface conditions noted in this report are encountered during construction, CTS should be notified 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.

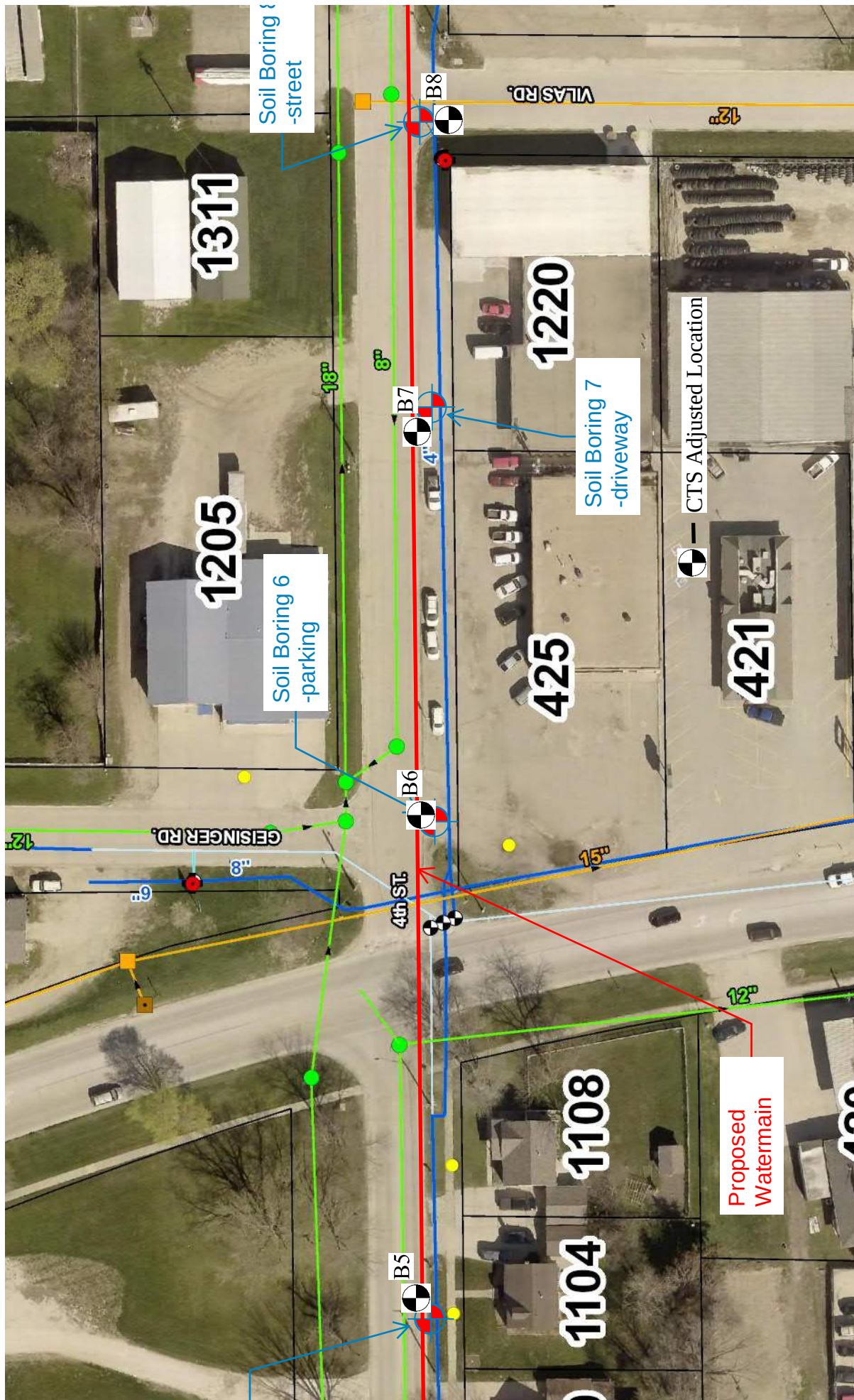
The geotechnical engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed.

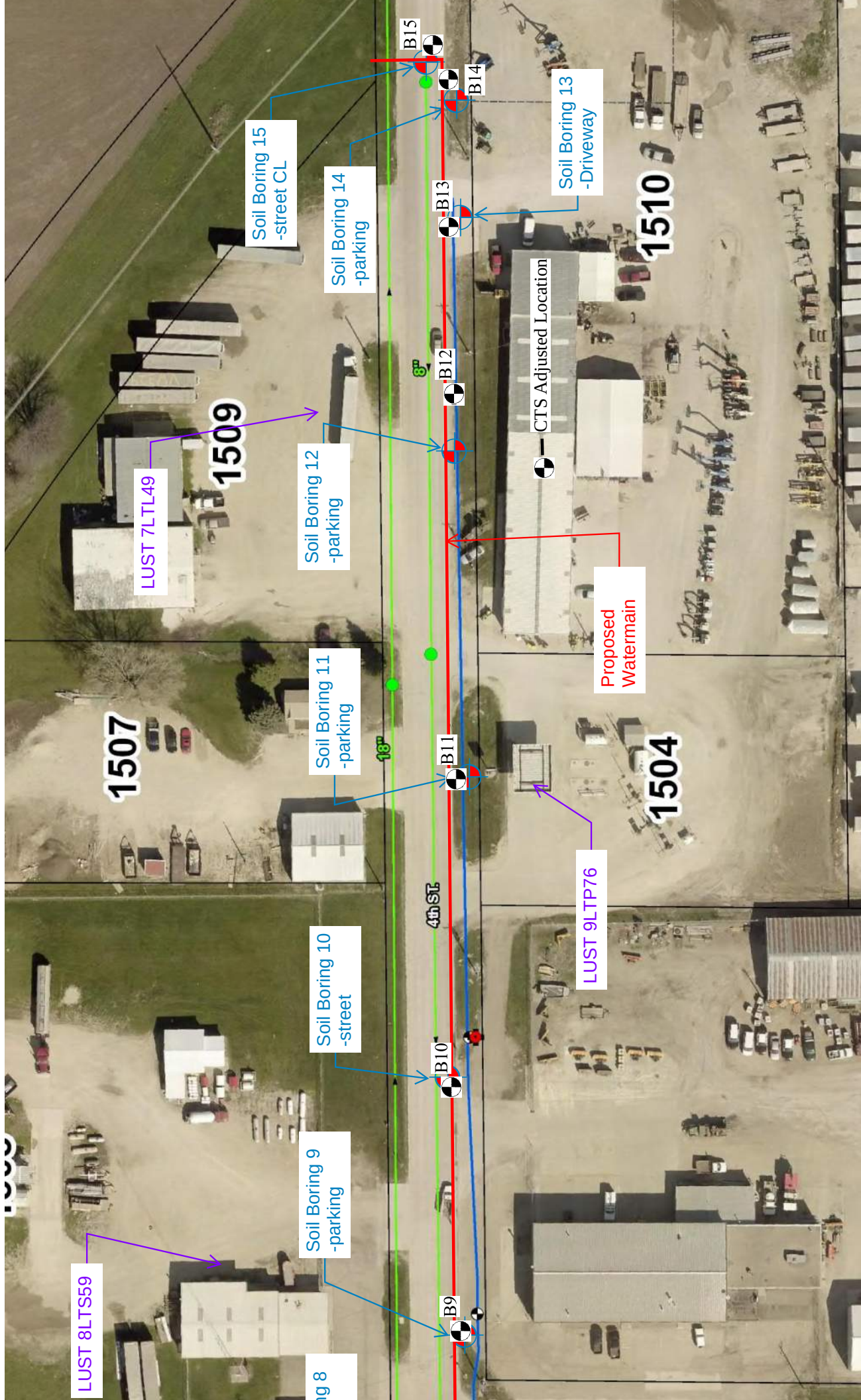
After the plans and specifications are more complete, the geotechnical engineer should be retained and provided the opportunity to review the final design plans and specifications to check that our engineering recommendations have been properly incorporated into the design documents. At that time, it 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

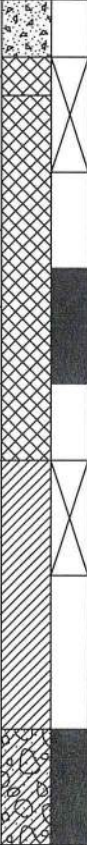


LOG OF EXPLORATORY BORING

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	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											
			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	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")
			Shelby Tube Modified California Standard Split Spoon Grab Sample Water Level ATD Water Level After 24-Hours											
			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	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											
			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 FREE WATER WAS ENCOUNTERED AT 5.8 FEET AT TIME OF DRILLING				2-2-4 N= 6	20								



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	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											
																
			2.75-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					
			FILL, Lean Clay with Sand, Dark Brown, Gray and Yellow Brown, Very Moist				1-2-2 N= 4	31								
5																
			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							3-3-5 N= 8	18								
			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											
			SOIL DESCRIPTION													
			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	 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, 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 LEAN TO FAT CLAY, Black to Dark Brownish Gray, Moist, Altered Loess			CL-CH	3-6-7 N= 13	27								
			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			END OF BORING AT 11 FEET FREE WATER WAS ENCOUNTERED AT 3.6 FEET AT TIME OF DRILLING				3-6-8 N= 14	18								



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	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											
SOIL DESCRIPTION																
			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	 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, 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

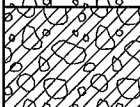
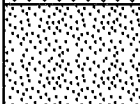
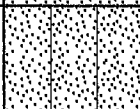
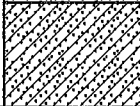
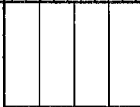
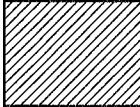
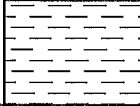
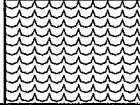
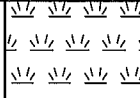
Job Number: **G6488**
 Project: **4th Street Improvements**
 Date Started: **11/1/21**
 Date Completed: **11/1/21**

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

Depth in Feet	Graphic Log	Sample Type	Shelby Tube Modified California	Standard Split Spoon Grab Sample	Water Level ATD Water Level After 24-Hours	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")
			SOIL DESCRIPTION													
			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 MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	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

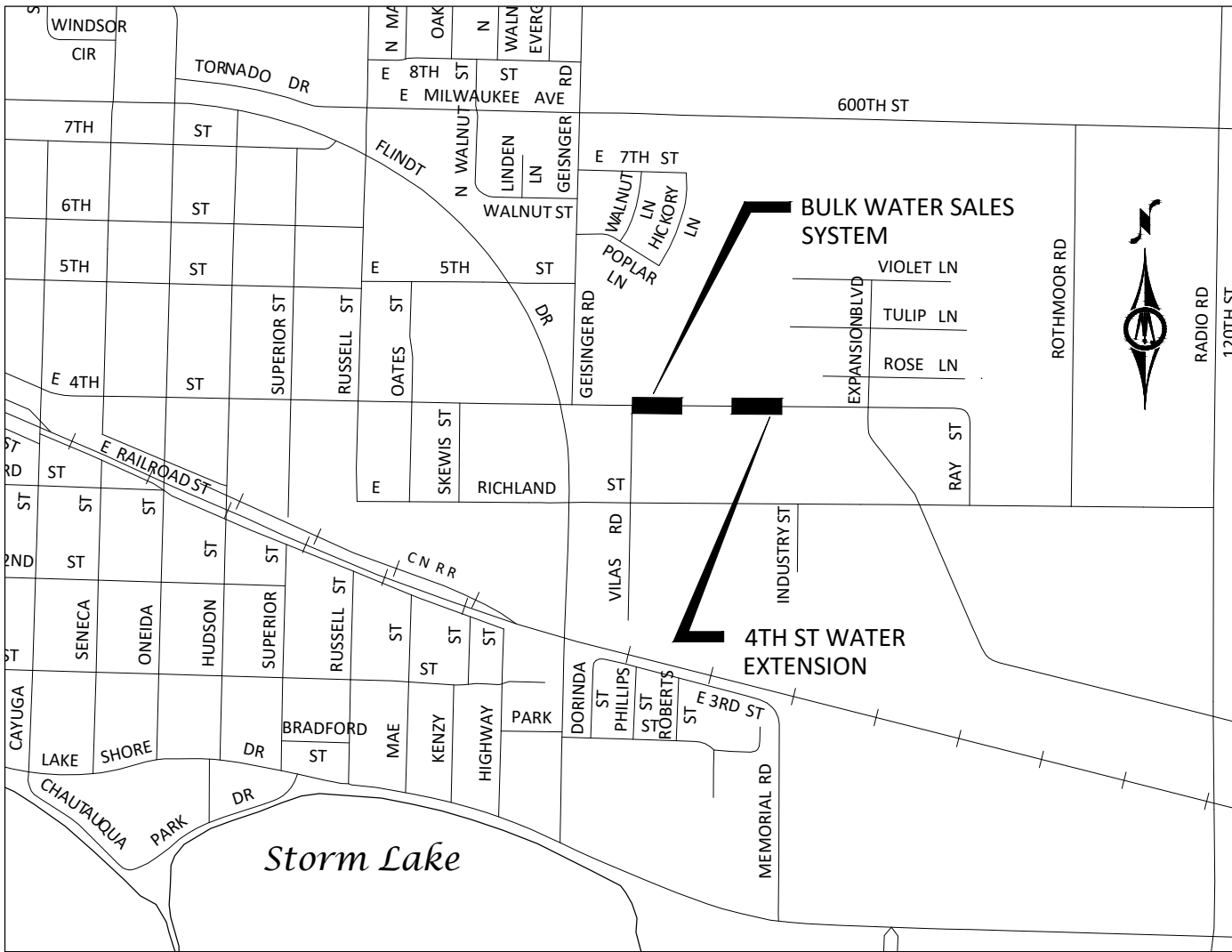
Century Link
426 Lake Ave.
Storm Lake, IA 50588
1-800-261-1691

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, RV DUMP STATION
AND 3" WATER SERVICE AND CITY SHOP HYDRANT

FEBRUARY, 2022



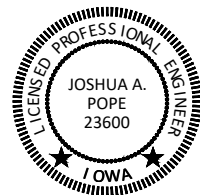
MAP OF PORTIONS OF THE
CITY OF STORM LAKE
BUENA VISTA COUNTY, IA

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
JDL	1	REISSUED FOR BID	03/22/22
CLIENT PROJ. NO. OP1125220			

SHEET NUMBER	SHEET TITLE
A.01 / A.02	TITLE SHEET/LEGEND
B.01-B.04	TYPICAL SECTIONS AND DETAILS
C.01-C.02	QUANTITIES AND ESTIMATE REFERENCE INFORMATION
D.01	PAVING PLAN
G.01	REFERENCES & BENCHMARKS
J.01	STAGING & TRAFFIC CONTROL
M.01 - M.02	WATERMAIN PLAN & PROFILE, BULK WATER SALES DISPENSER
R0.01	REMOVALS
THIS PLAN SET CONTAINS 14 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: March 24, 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		
	LIGHT POLE		
	MAILBOX		
	MANHOLE-COMMUNICATION		
	MANHOLE-ELECTRIC		
	MANHOLE-GAS		
	MANHOLE-HEAT		
	MANHOLE-SANITARY SEWER		
	MANHOLE-STORM SEWER		
	MANHOLE-UTILITY		
	MANHOLE-WATER		
	METER		
	ORDER MICROPHONE		
	PARKING METER		
	PAVEMENT MARKING		
	PEDESTAL-COMMUNICATION		
	PEDESTAL-ELECTRIC		
	PEDESTRIAN PUSH BUTTON		
	PICNIC TABLE		
	POLE-UTILITY		
	POST		
	RAILROAD SIGNAL POLE		
	REGULATION STATION GAS		

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:
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

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"

	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: G-A G-A 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		



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KMA	B	90% PLAN	1/17/22
O		BID	02/15/22
JDL	1	REISSUED FOR BID	03/22/22
CLIENT PROJ. NO.			
OP1125220			

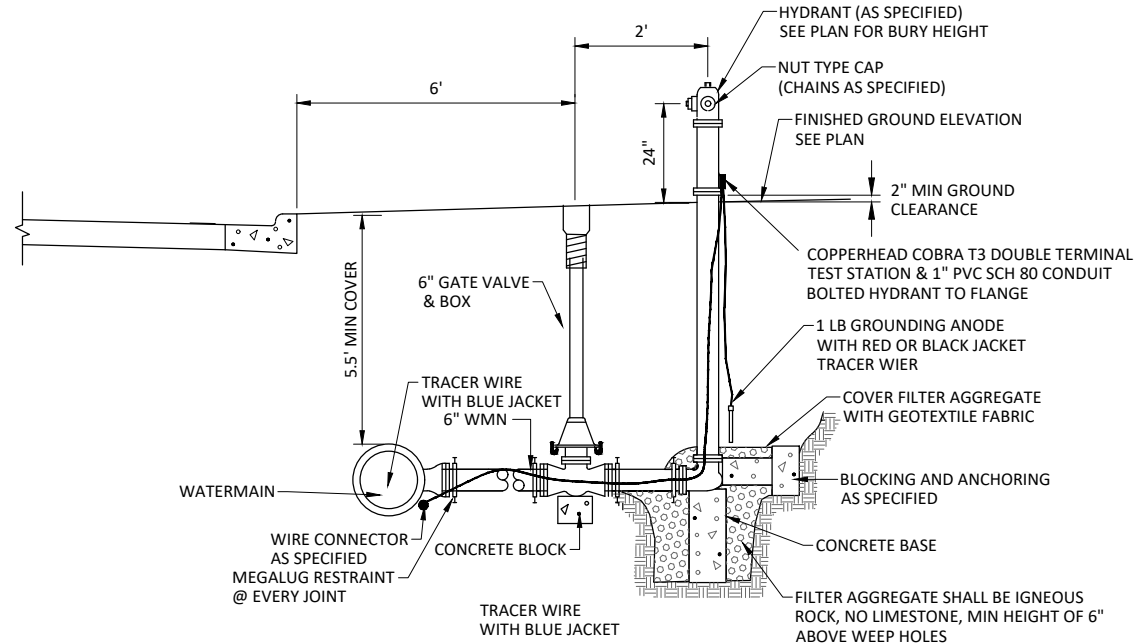
CITY OF STORM LAKE, IOWA

2022 4TH STREET WATERMAIN IMPROVEMENTS

LEGEND SHEET

SHEET

A.02

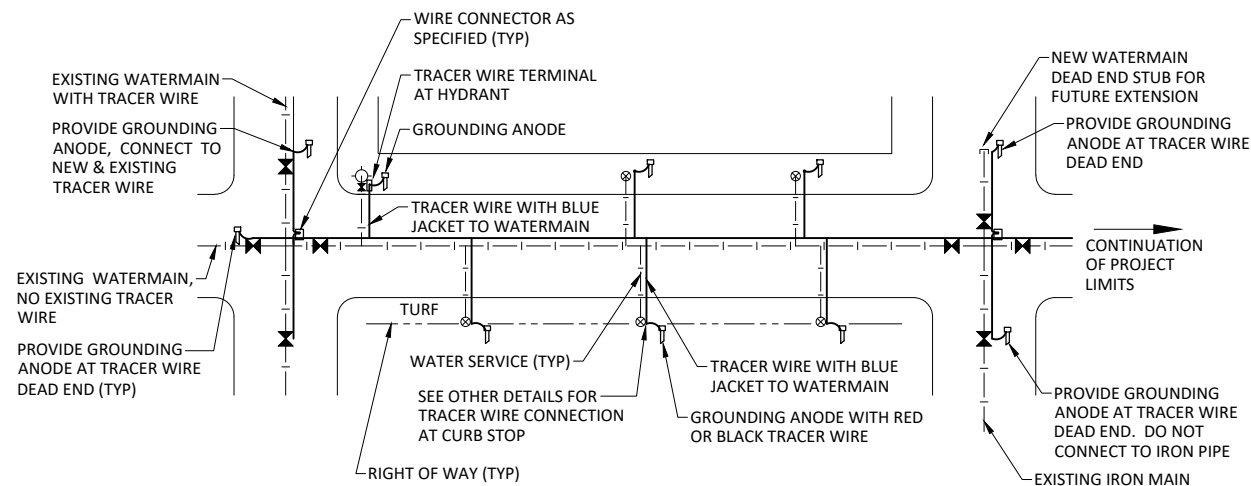


NOTES

1. 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"
2. REFER TO TRACER WIRE DETAILS FOR ADDITIONAL INFORMATION.

HYDRANT INSTALLATION, MEGALUGS

NOT TO SCALE

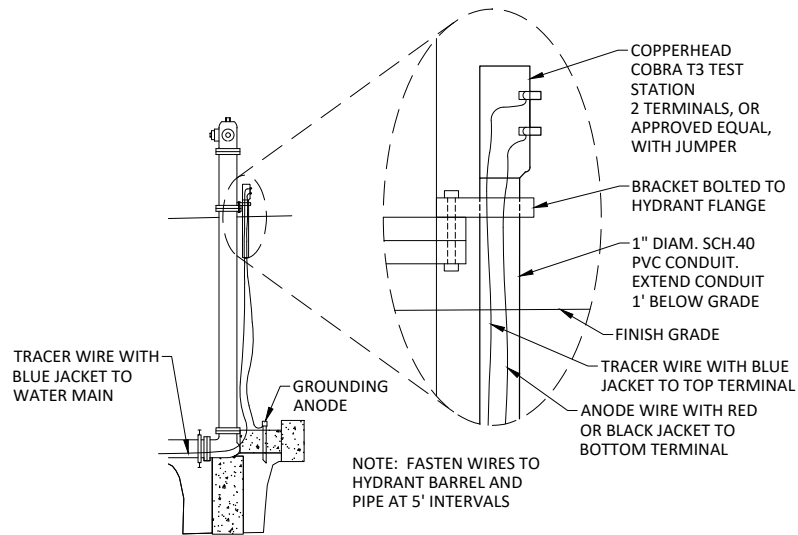


NOTES:

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

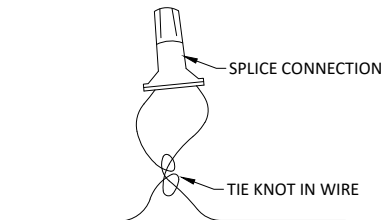
TRACER WIRE SYSTEM SCHEMATIC - WATER DISTRIBUTION

NOT TO SCALE



TRACER WIRE AT HYDRANT

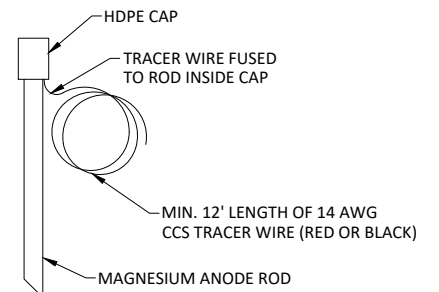
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WHERE IN-LINE SPLICES ARE REQUIRED ALONG PIPES, THE TRACER WIRE SHALL BE KNOTTED PRIOR TO INSERTION INTO THE SPLICE CONNECTION.

IN-LINE TRACER WIRE SPLICE

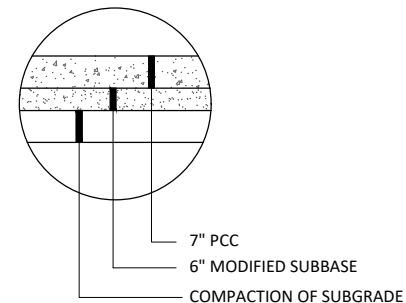
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NOTE: MAGNESIUM ROD DIMENSIONS SHALL BE APPROX. 18" LONG BY 1.3" DIAM., AND APPROX. 1 LB IN WEIGHT

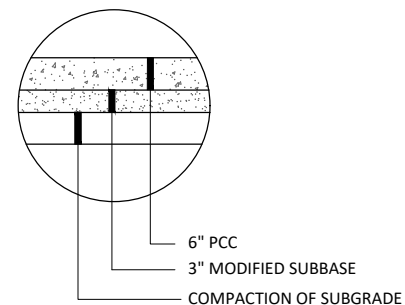
GROUNDING ANODE

NOT TO SCALE



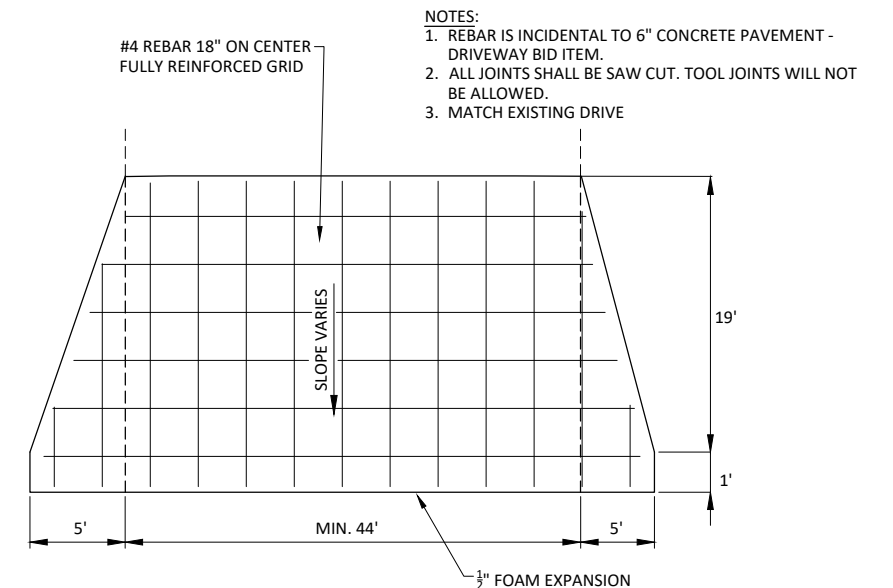
CONCRETE PAVEMENT REPAIR

NOT TO SCALE



CONCRETE DRIVEWAY & PARKING LOT

NOT TO SCALE



CONCRETE DRIVEWAY DETAIL

NOT TO SCALE



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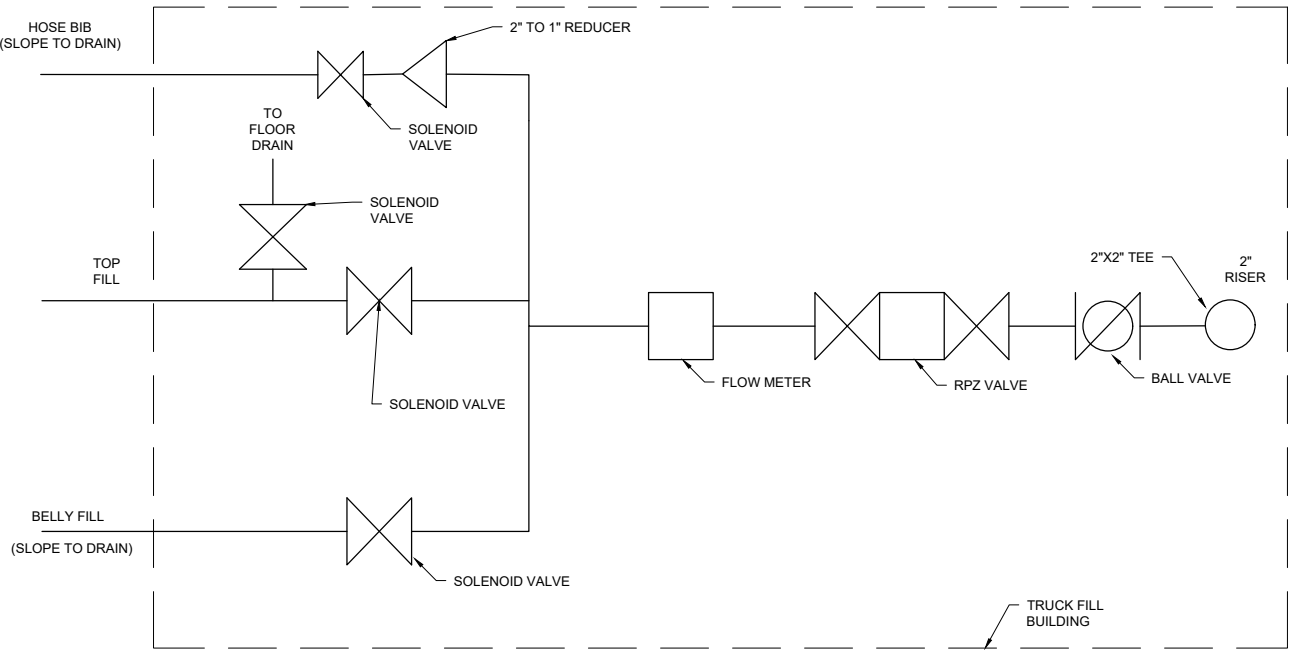
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CHECKED	O	BID	02/15/22
JDL	1	REISSUED FOR BID	03/22/22
CLIENT PROJ. NO.	OP1125220		

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

TYPICAL SECTIONS AND DETAILS

SHEET

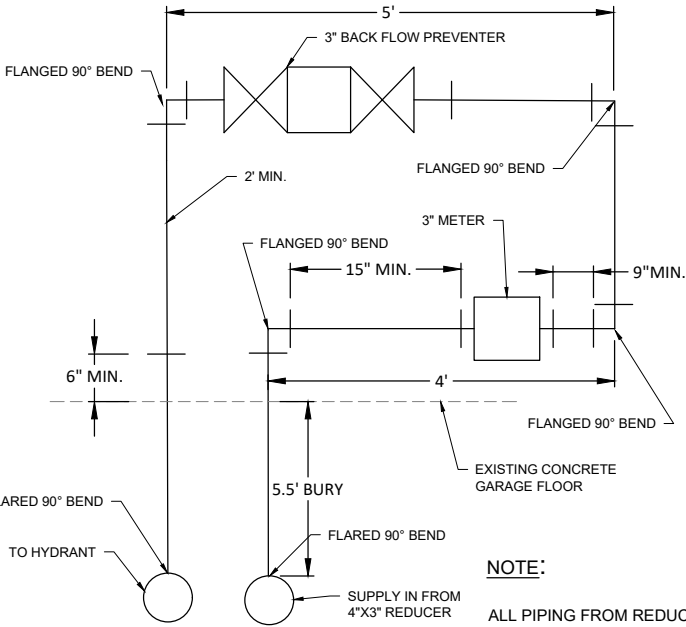
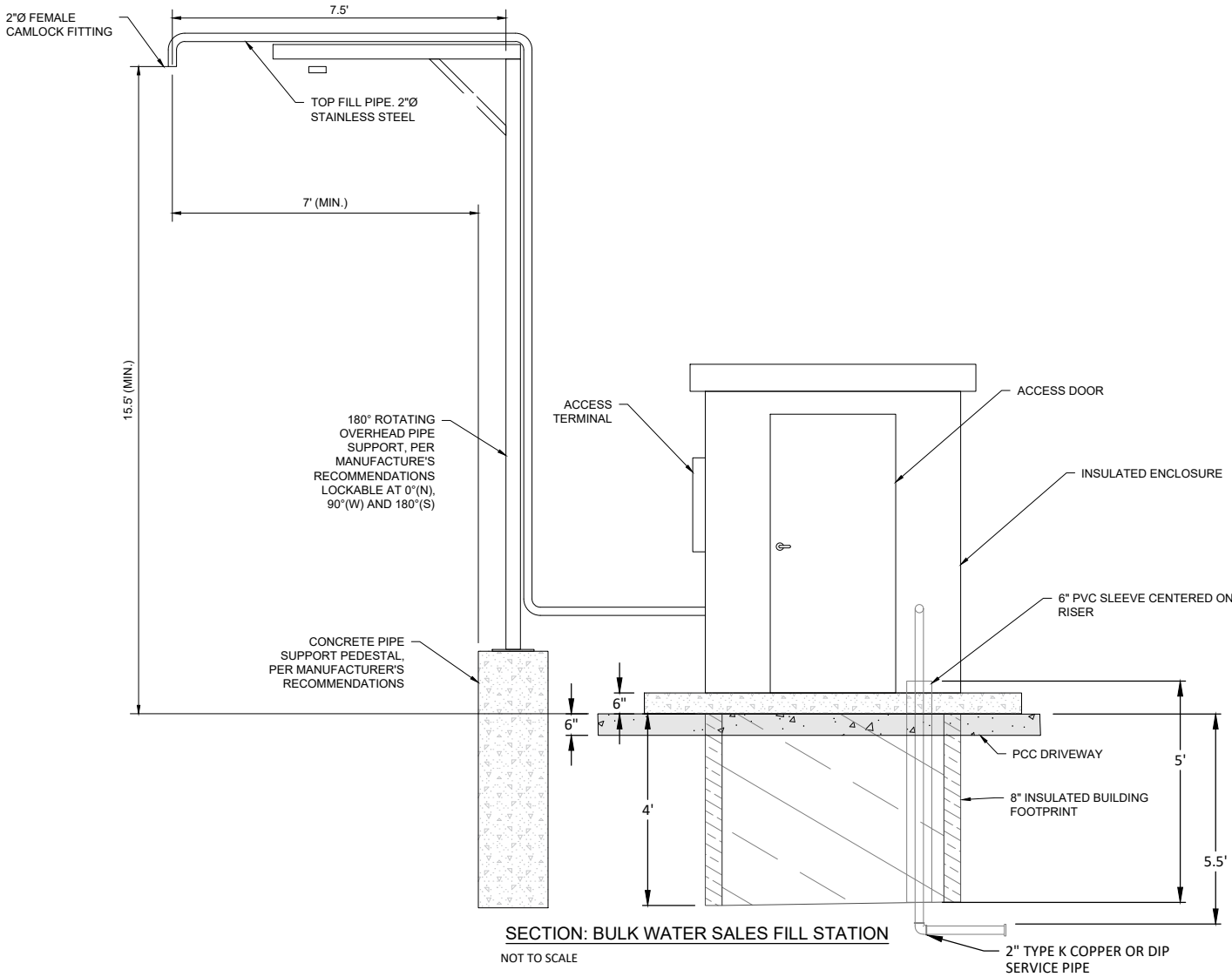
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BULK WATER SALES FILL STATION PROCESS FLOW DIAGRAM
NOT TO SCALE

NOTES:

1. PROVIDE BULK WATER SALES FILL STATION INCLUDING:
 - 1.1. TOP FILL PIPE, INCLUDING OVERHEAD PIPE AND 180° ROTATING SUPPORT
 - a. LOCKABLE POSITIONS AT 0°(N), 90°(W) AND 180°(S)
 - 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

CITY SHOP HYDRANT PLUMBING
NOT TO SCALE

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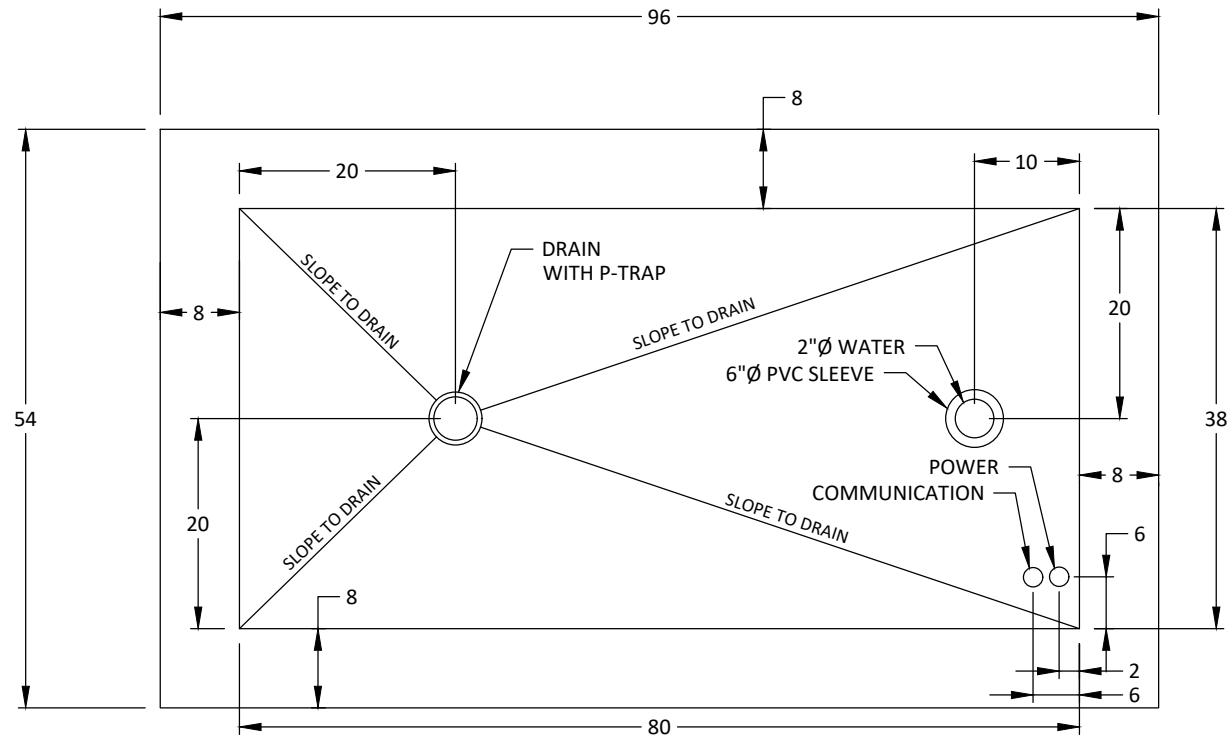
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CITY OF STORM LAKE, IOWA
2022 4TH STREET WATERMAIN IMPROVEMENTS
TYPICAL SECTIONS AND DETAILS

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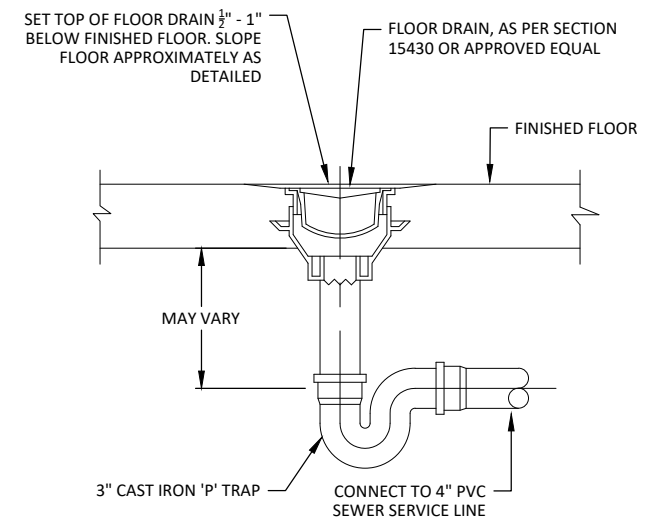
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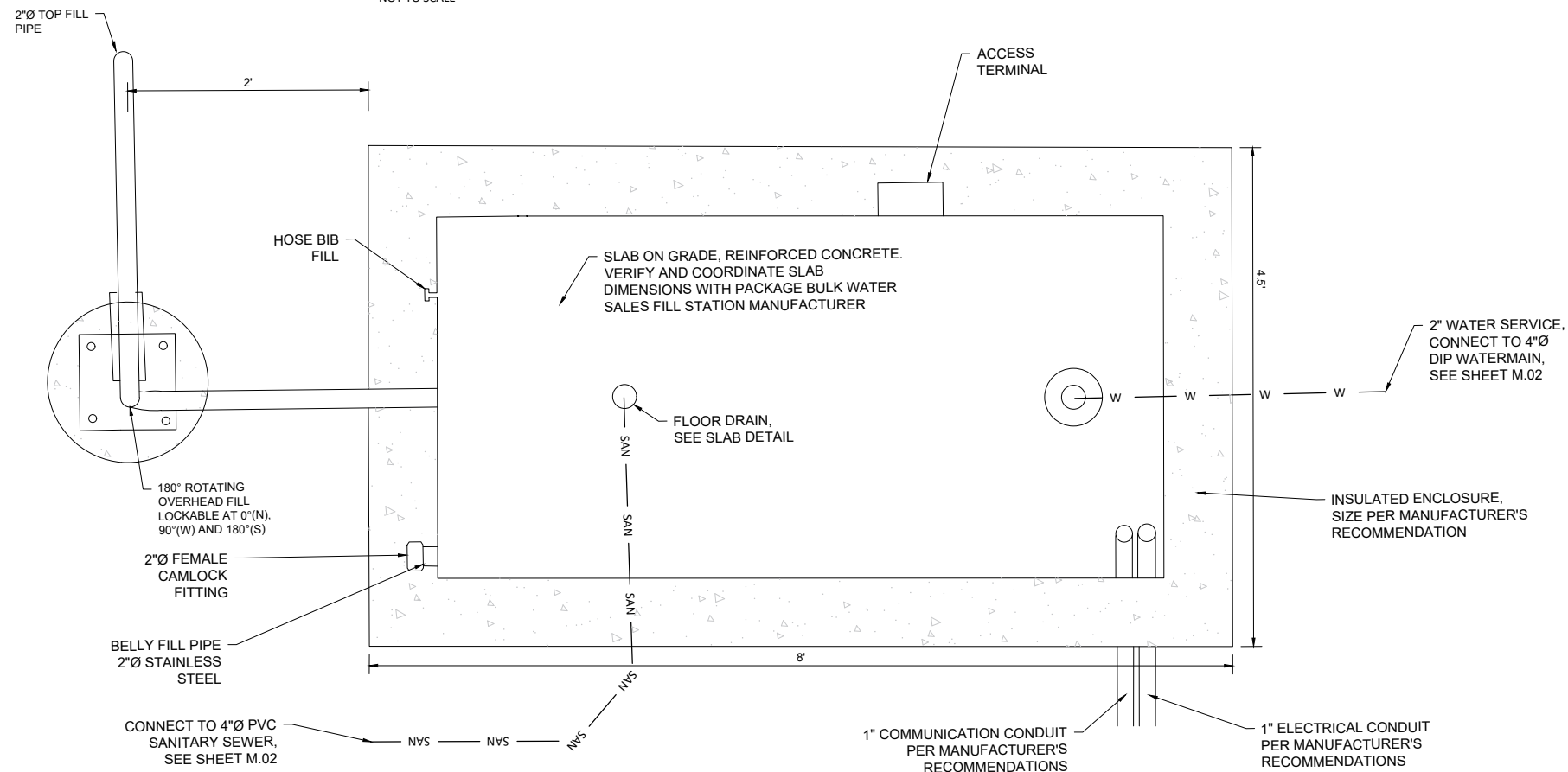
BULK WATER SALES CONCRETE SLAB
NOT TO SCALE

CONSTRUCTION NOTES:

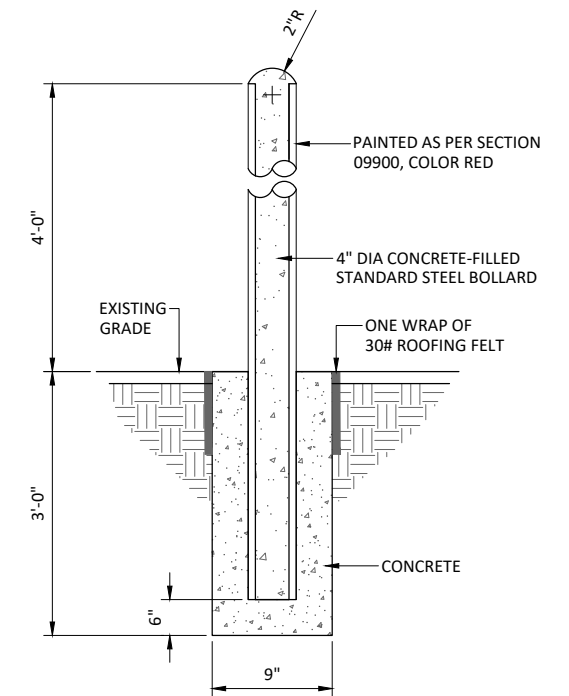
1. ALL UNITS ARE IN INCHES
2. REFER TO TECHNICAL SPECIFICATIONS SECTION 2510 FOR MORE INFORMATION
3. SLAB SHALL BE 6" NOM. THICKNESS
4. BASE SLAB SHALL HAVE SINGLE LAYER OF REINFORCEMENT, NO. 4 BARS AT 8" O.C., 2" MINIMUM CLEARANCE FROM EDGES AND CENTERED IN THE SLAB THICKNESS
5. FLOOR DRAIN SHALL BE $\frac{1}{2}$ " - 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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CITY OF STORM LAKE, IOWA
2022 4TH STREET WATERMAIN IMPROVEMENTS
BULK WATER SALES DETAILS

SHEET
B.03

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ESTIMATED PROJECT QUANTITIES					
ITEM NO.	ITEM CODE	ITEM	UNIT	QUANT	AS BUILT QUANT.
1	2010-108-I-0	SUBBASE, MODIFIED, 6"	SY	435	
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	46	
5	4010-108-X-1	4" ON 4" SANITARY SEWER SERVICE WYE	EA	1	
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	255	
21	7030-108-H-1	DRIVEWAY, PAVED, PCC, 6"	SY	400	
22	7040-108-H-0	CONCRETE REMOVAL	SY	115	
23	7070-108-B-1	AGGREGATE, CLASS A	TON	24	
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	12	
32	12050-108-X-4	RV DUMP STATION	LS	1	

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.



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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
		1	REISSUED FOR BID	03/22/22

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

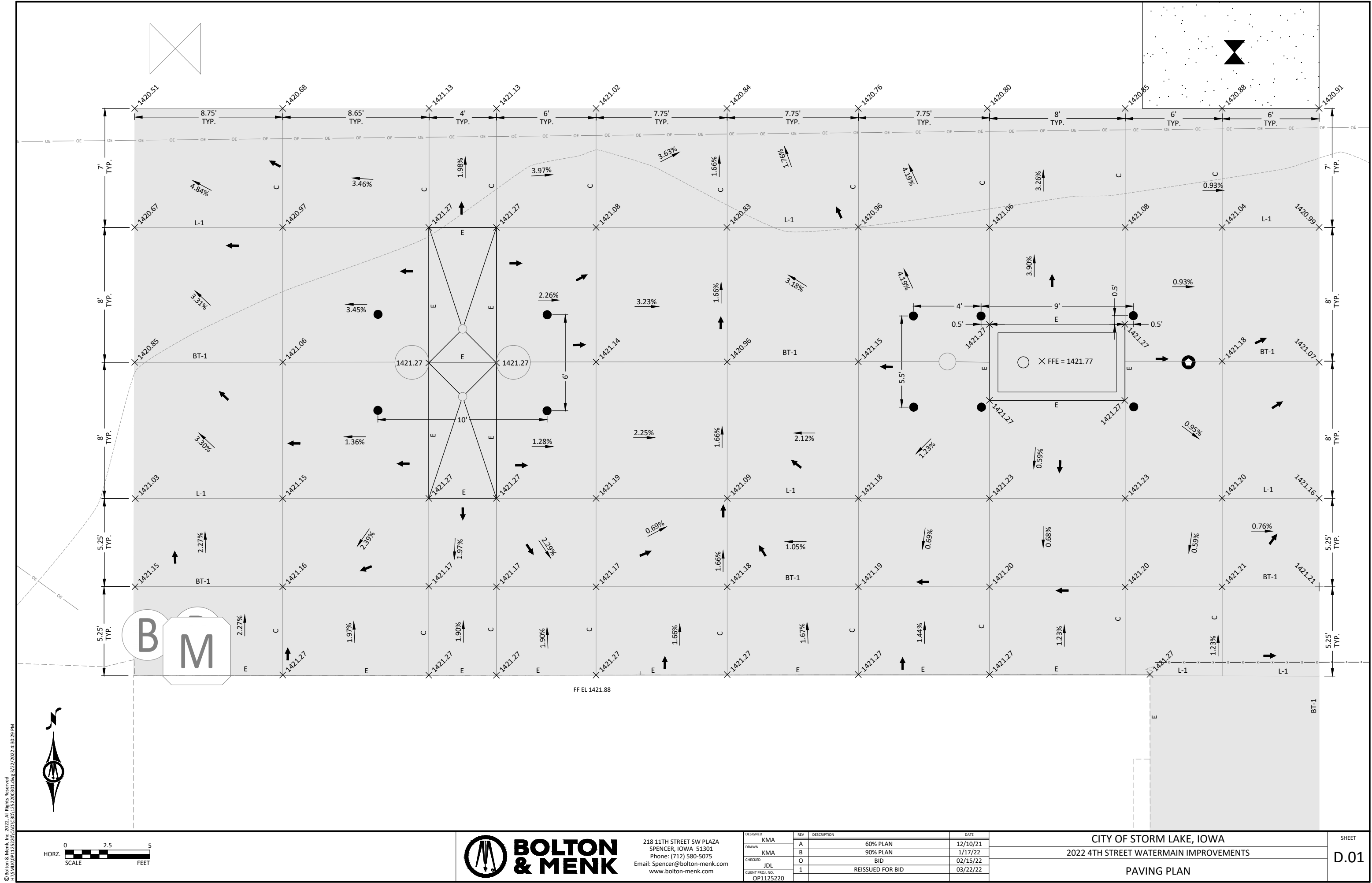
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ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
10	5010-108-E-1	<u>WATER SERVICE PIPE, 2"</u> REFER TO M SHEETS FOR LOCATION. PIPE MATERIAL SHALL BE TYPE K COPPER OR D.I.P. AND INCLUDE GASKETS AND FITTINGS THAT PROTECT AGAINST CONTAMINATED 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	<u>WATER SERVICE CORPORATION, 2" ON 4"</u> 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	<u>WATER SERVICE CURB STOP AND BOX, 2"</u> 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	<u>VALVE, GATE, 4"</u> 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	<u>VALVE, GATE, 8"</u> 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	<u>TAPPING SLEEVE AND VALVE ASSEMBLY, 4"</u> 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	<u>FIRE HYDRANT ASSEMBLY SALVAGE AND RELOCATE</u> 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	<u>MANHOLE ADJUSTMENT, MINOR</u> 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	<u>CONNECTION TO EXISTING WATER MAIN</u> 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.

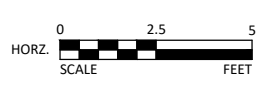
ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
19	7010-108-A-0	<u>PAVEMENT, PCC, 7"</u> GROUND GRANULATED BLAST FURNACE SLAG SHALL NOT BE PERMITTED FOR ANY WORK ON THIS PROJECT. CONCRETE SHALL BE IDOT CLASS C, MINIMUM STRENGTH OF 4000 PSI AT 28 DAYS. SUBGRADE PREPARATION, FORMWORK, ADDITIONAL THICKNESS AT THICKENED EDGES, JOINTING, AND SEALING SHALL BE CONSIDERED INCIDENTAL.
20	7030-108-A-0	<u>REMOVAL OF DRIVEWAY</u> 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	<u>DRIVEWAY, PAVED, PCC, 6"</u> 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.
22	7040-108-H-0	<u>CONCRETE REMOVAL</u> 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	<u>AGGREGATE, CLASS A</u> THIS ITEM SHALL BE FOR SURFACE PREPARATION AND FURNISHING AND PLACING OF MATERIAL. AGGREGATE 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	<u>TEMPORARY TRAFFIC CONTROL</u> 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	<u>CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING</u> 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.

ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
26	9040-108-F-1	<u>WATTLE, WOOD, 9"</u> THIS ITEM INCLUDES THE INSTALLATION, MAINTENANCE AND REMOVAL OF WATTLES.
27	9060-108-D-0	<u>REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK</u> 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	<u>MOBILIZATION</u> 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	<u>BULK WATER SALES PACKAGE</u> THIS ITEM SHALL BE FULL COMEPESATION 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	<u>CITY SHOP HYDRANT PLUMBING</u> 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	<u>BOLLARD</u> THIS ITEM SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND EQUIPMENT TO COMPLETE THE INSTALLATION 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.
32	12050-108-X-4	<u>RV DUMP STATION</u> THIS ITEM SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND EQUIPMENT TO COMPLETE THE INSTALLATION AT THE LOCATION SHOWN ON SHEET M.02. THIS ITEM IS TO INCLUDE THE RV DUMP SITE CONCRETE DRAIN PADS, HOLDING TANK WITH CORRECT ACCESS RISERS AND COVERS, INSULATION, 4" SELF CLOSING FOOT OPERATED DRAIN COVER, PIPE AND PIPE FITTINGS SPECIFIED ON DETAIL SHEET B.04.

	218 11TH STREET SW PLAZA SPENCER, IOWA 51301 Phone: (712) 580-5075 Email: Spencer@bolton-menk.com www.bolton-menk.com		DESIGNED KMA	REV A	DESCRIPTION 60% PLAN	DATE 12/10/21	CITY OF STORM LAKE, IOWA 2022 4TH STREET WATERMAIN IMPROVEMENTS QUANTITIES AND ESTIMATE REFERENCE NOTES	SHEET C.02
			DRAWN KMA	B	90% PLAN	1/17/22		
			CHECKED JDL	O	BID	02/15/22		
			CLIENT PROJ. NO. OP1125220	1	REISSUED FOR BID	03/22/22		



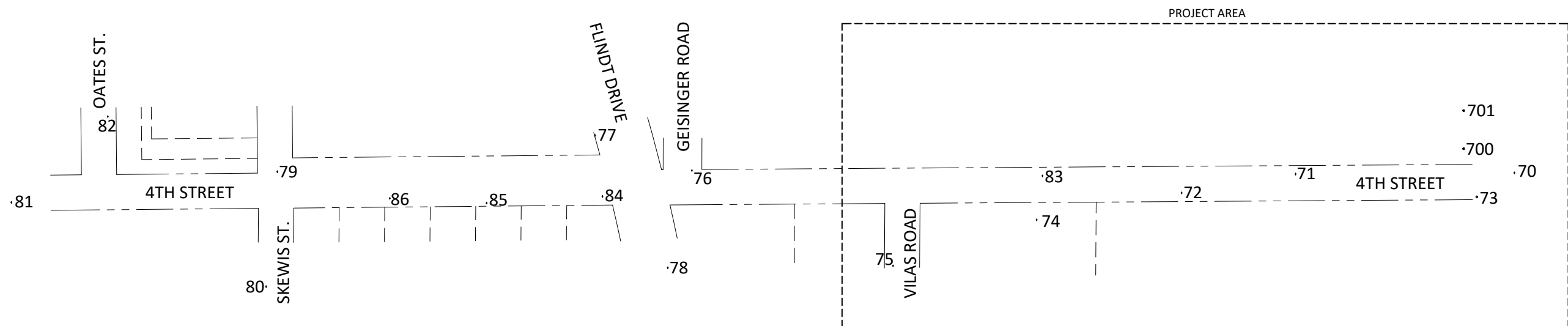
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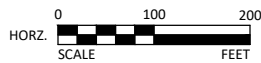
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DESIGNED	REV	DESCRIPTION	DATE
KMA	A	60% PLAN	12/10/21
KMA	B	90% PLAN	1/17/22
O		BID	02/15/22
JDL	1	REISSUED FOR BID	03/22/22
CLIENT PROJ. NO.	OP1125220		

CITY OF STORM LAKE, IOWA		SHEET D.01
2022 4TH STREET WATERMAIN IMPROVEMENTS		
PAVING PLAN		



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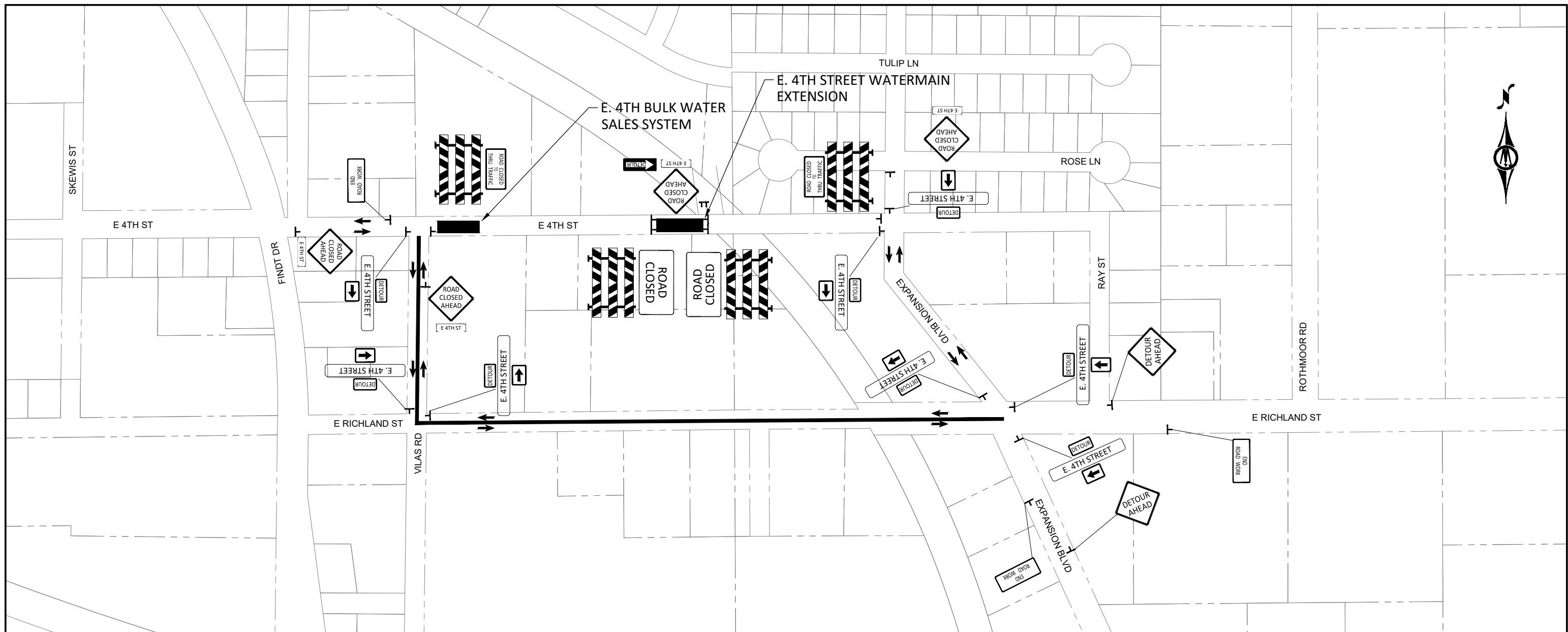
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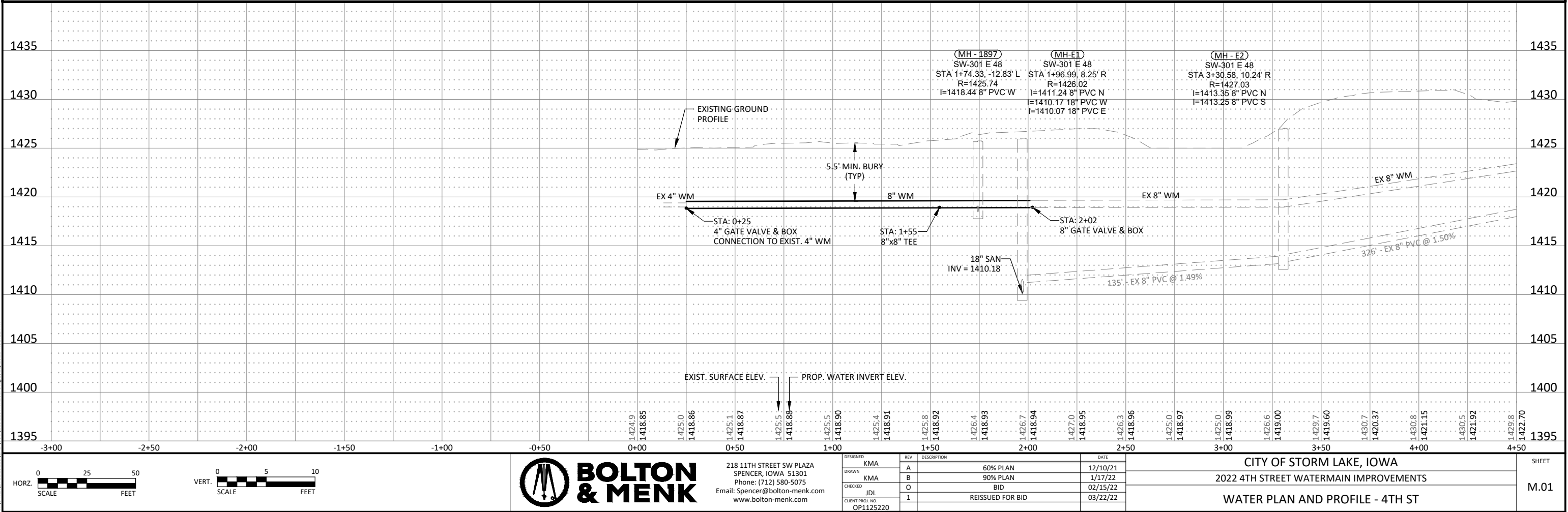
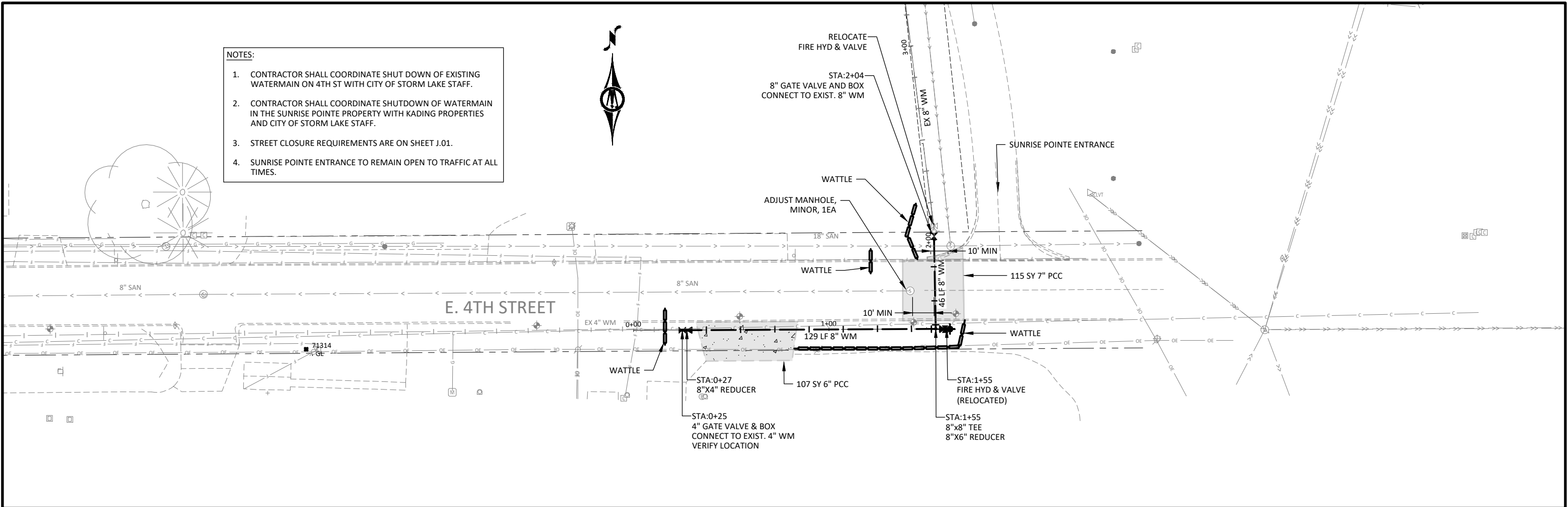
CITY OF STORM LAKE, IOWA
2022 4TH STREET WATERMAIN IMPROVEMENTS
REFERENCES AND BENCHMARKS

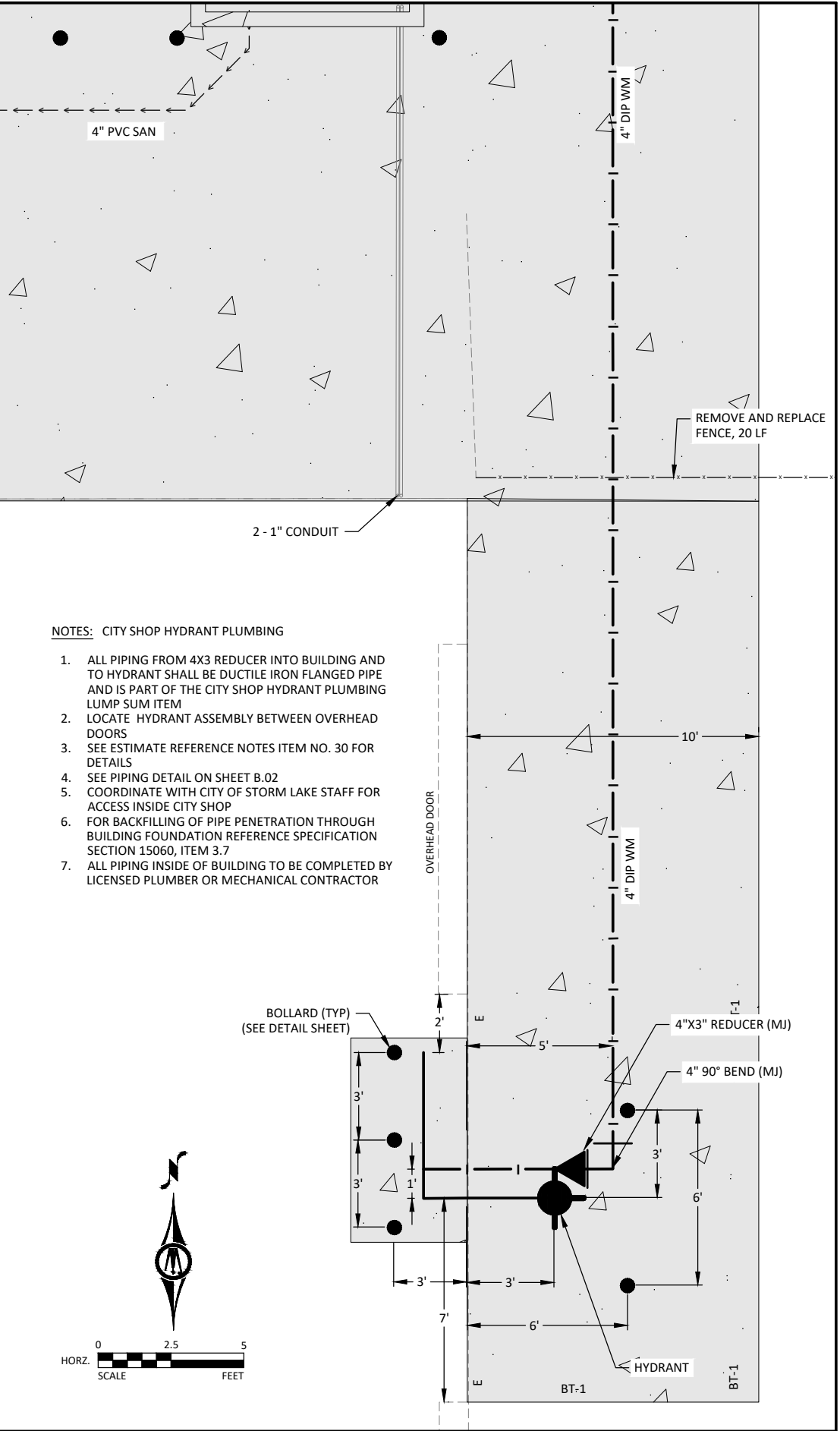
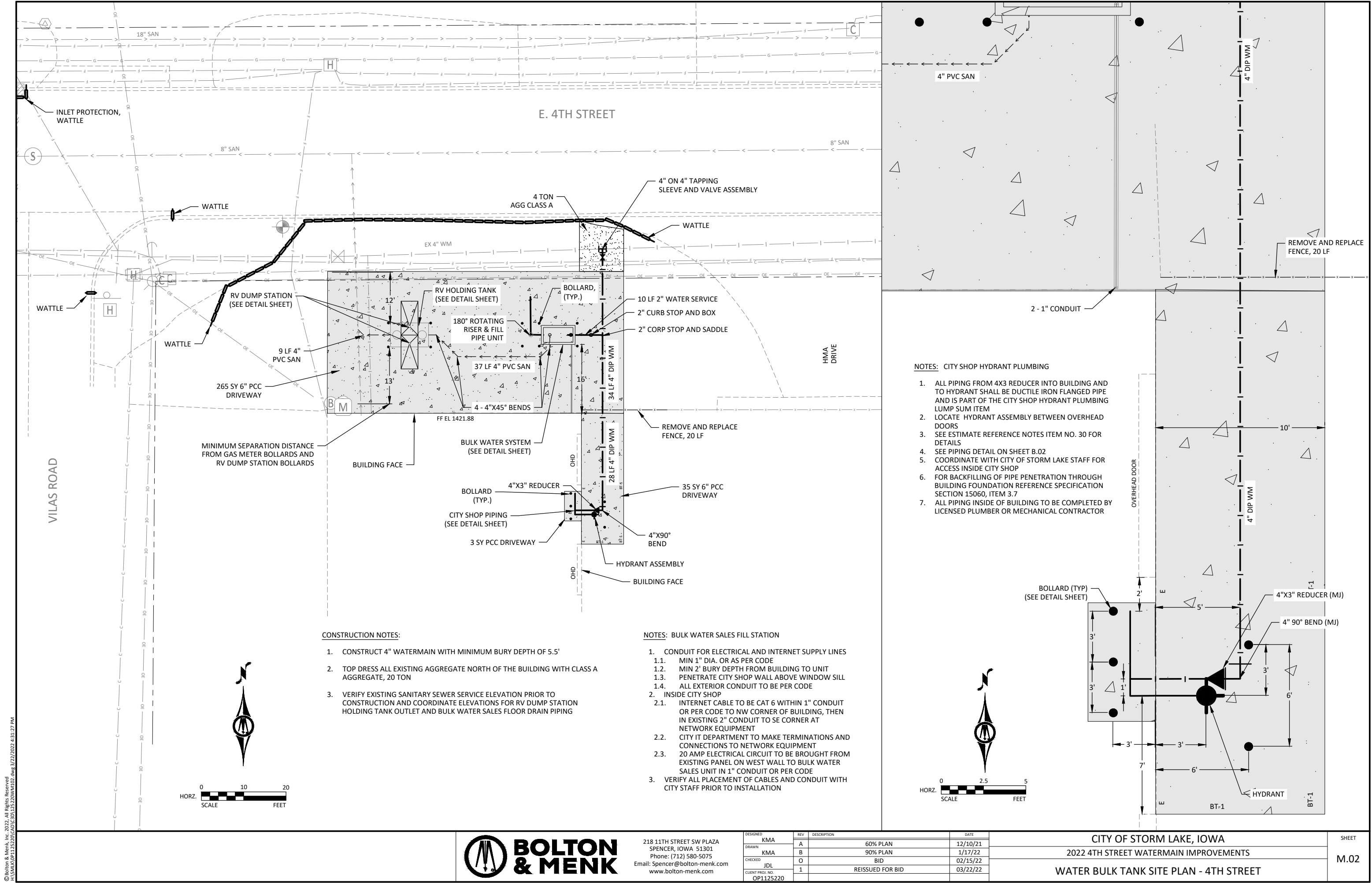
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G.01



TRAFFIC CONTROL NOTES:





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		1	REISSUED FOR BID	03/22/22

CITY OF STORM LAKE, IOWA
2022 4TH STREET WATERMAIN IMPROVEMENTS
WATER BULK TANK SITE PLAN - 4TH STREET

SHEET
M.02

ENGINEER'S ESTIMATE

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



Date: 4/6/2022

Item No.	SUDAS Spec No.	Item	Estimated Quantity	Unit	Unit Price	Total Amount
BASE BID						
1	2010-108-I-0	SUBBASE, MODIFIED, 6"	435	SQ YD	\$10.00	\$4,350.00
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"	46	LIN FT	\$75.00	\$3,450.00
5	4010-108-X-1	4" ON 4" SANITARY SEWER SERVICE WYE	1	EACH	\$100.00	\$100.00
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	255	SQ YD	\$4.00	\$1,020.00
21	7030-108-H-1	DRIVEWAY, PAVED, PCC, 6"	400	SQ YD	\$60.00	\$24,000.00
22	7040-108-H-0	CONCRETE REMOVAL	115	SQ YD	\$4.00	\$460.00
23	7070-108-B-1	AGGREGATE, CLASS A	24	TON	\$25.00	\$600.00
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	\$28,000.00	\$28,000.00
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	12	EACH	\$750.00	\$9,000.00
32	12050-108-X-4	RV DUMP STATION	1	LUMP SUM	\$10,000.00	\$10,000.00
ESTIMATED BASE BID TOTAL:						\$211,610.00

Staff Summary

4/18/2022

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: Ron Covert, Water Quality Operations Supervisor

SUBJECT: **Resolution No. 71-R-2021-2022 Adopting Plans, Specifications, Form Of Contract, Estimate Of Cost, Accepting Bids And Awarding Contract For The 2022 4th Street Watermain Project**

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, RV dump stations, 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 FY 22 budget assigned \$1,149,500 for the project. Within the design engineering phase of the project, City and Engineering staffs identified an alternative which condensed the construction footprints for the bulk water sales station and RV dump sites. Additionally, an alternative watermain alignment was selected. These alternatives collectively resulted in the value of pavement and ancillary utility replacements to be notably reduced from the budgeted amount.

Bids were opened on April 6, 2022. One bid was received with the apparent low bidder being SCE, LLC in the amount of \$333,587.00.

The Engineer’s Opinion of Probable Cost was \$211,610.00.

FISCAL IMPACT: The construction contract has an estimated value of \$333,587.00.

RECOMMENDATION: Approve Resolution 71-R-2021-2022 Adopting Plans, Specifications, Form Of Contract, Estimate Of Cost, Accepting Bids And Awarding Contract For The 2022 4th Street Watermain Project to SCE, LLC in the amount of \$333,587.00.

ATTACHMENTS:

Description		Type
☐	Engineer's Recommendation	Backup Material
☐	Resolution No. 71-R-2021-2022	Resolution



**BOLTON
& MENK**

Real People. Real Solutions.

218 11th Street SW Plaza
Spencer, IA 51301

Ph: (712) 580-5075
Bolton-Menk.com

April 18, 2022

City of Storm Lake
Attn: Dave Derragon
620 Erie Street
Storm Lake, Iowa 50588

RE: Recommendation of Award
2022 4th Street Watermain Improvements
City of Storm Lake, Iowa
BMI Project No.: OP1.125220

Dear Mr. Derragon:

Bids were received and opened Wednesday, April 6th, 2022 at 2:30 P.M. for the project referenced above. One (1) bid was received, and the result is tabulated below:

	<u>Total Bid</u>
SCE, LLC	\$333,587.00
<i>Engineer's Estimate:</i>	<i>\$211,610.00</i>

A detailed bid abstract including the engineer's estimate is attached for your reference. We have also included information requested from the low bidder as required by the bidding documents. If deemed economically feasible, we recommend awarding the construction contract, including the base bid, to SCE, LLC in the amount of \$333,587.00.

Sincerely,

Bolton & Menk, Inc.

Josh Pope, PE, ENV SP, LEED AP BD+C
City Infrastructure Engineer

JAP/ch

Enclosures

ABSTRACT OF BIDS

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

BID DATE: 4/6/2022
TIME: 2:30 PM

ITEM NO.	SUDAS SPEC NO.	ITEM	APPROX. QUANT.	UNIT	Engineer's Estimate Bolton & Menk, Inc.		SCE, LLC Cherokee, Iowa	
					UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
BASE BID								
1	2010-108-I-0	SUBBASE, MODIFIED, 6"	435	SQ YD	\$10.00	\$4,350.00	\$25.00	\$10,875.00
2	2010-108-J-3-a	REMOVAL OF KNOWN PIPE AND CONDUIT, WATERMAIN, 4"	175	LIN FT	\$10.00	\$1,750.00	\$15.00	\$2,625.00
3	3010-108-C-0	TRENCH FOUNDATION	10	TON	\$35.00	\$350.00	\$60.00	\$600.00
4	4010-108-E-0	SANITARY SEWER SERVICE STUB, PVC, 4"	46	LIN FT	\$75.00	\$3,450.00	\$65.00	\$2,990.00
5	4010-108-X-1	4" ON 4" SANITARY SEWER SERVICE WYE	1	EACH	\$100.00	\$100.00	\$1,850.00	\$1,850.00
6	4010-108-X-2	REMOVE RV DUMP STATION AND PIPE	1	LUMP SUM	\$500.00	\$500.00	\$750.00	\$750.00
7	5010-108-A-1	WATER MAIN, TRENCHED, DIP, 4"	36	LIN FT	\$45.00	\$1,620.00	\$95.00	\$3,420.00
8	5010-108-A-1	WATER MAIN, TRENCHED, PVC DR-18, 8"	180	LIN FT	\$65.00	\$11,700.00	\$53.00	\$9,540.00
9	5010-108-C-2	FITTINGS, DIP	181	POUND	\$10.00	\$1,810.00	\$21.00	\$3,801.00
10	5010-108-E-1	WATER SERVICE PIPE, 2"	10	LIN FT	\$25.00	\$250.00	\$160.00	\$1,600.00
11	5010-108-E-2	WATER SERVICE CORPORATION, 2" ON 4"	1	EACH	\$400.00	\$400.00	\$900.00	\$900.00
12	5010-108-E-3	WATER SERVICE CURB STOP AND BOX, 2"	1	EACH	\$1,000.00	\$1,000.00	\$1,450.00	\$1,450.00
13	5020-108-A-0	VALVE, GATE, 4"	1	EACH	\$1,600.00	\$1,600.00	\$1,750.00	\$1,750.00
14	5020-108-A-0	VALVE, GATE, 8"	1	EACH	\$2,000.00	\$2,000.00	\$2,600.00	\$2,600.00
15	5020-108-B-0	TAPPING SLEEVE AND VALVE ASSEMBLY, 4"	1	EACH	\$3,000.00	\$3,000.00	\$4,650.00	\$4,650.00
16	5020-108-C-0	FIRE HYDRANT ASSEMBLY SALVAGE AND RELOCATE	1	EACH	\$3,000.00	\$3,000.00	\$2,000.00	\$2,000.00
17	6010-108-E-0	MANHOLE ADJUSTMENT, MINOR	1	EACH	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
18	6010-108-G-0	CONNECTION TO EXISTING WATER MAIN	2	EACH	\$2,000.00	\$4,000.00	\$1,800.00	\$3,600.00
19	7010-108-A-0	PAVEMENT, PCC, 7"	115	SQ YD	\$70.00	\$8,050.00	\$180.00	\$20,700.00
20	7030-108-A-0	REMOVAL OF DRIVEWAY	255	SQ YD	\$4.00	\$1,020.00	\$15.00	\$3,825.00
21	7030-108-H-1	DRIVEWAY, PAVED, PCC, 6"	400	SQ YD	\$60.00	\$24,000.00	\$144.00	\$57,600.00
22	7040-108-H-0	CONCRETE REMOVAL	115	SQ YD	\$4.00	\$460.00	\$16.00	\$1,840.00
23	7070-108-B-1	AGGREGATE, CLASS A	24	TON	\$25.00	\$600.00	\$41.50	\$996.00
24	8030-108-A-0	TEMPORARY TRAFFIC CONTROL	1	LUMP SUM	\$5,000.00	\$5,000.00	\$6,500.00	\$6,500.00
25	9010-108-A-0	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING	0.1	ACRE	\$7,500.00	\$750.00	\$14,500.00	\$1,450.00
26	9040-108-F-1	WATTLE, WOOD, 9"	250	LIN FT	\$5.00	\$1,250.00	\$3.50	\$875.00
27	9060-108-D-0	REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK	20	LIN FT	\$30.00	\$600.00	\$40.00	\$800.00
28	11020-108-A-1	MOBILIZATION	1	LUMP SUM	\$28,000.00	\$28,000.00	\$15,000.00	\$15,000.00
29	12040-108-X-1	BULK WATER SALES PACKAGE	1	LUMP SUM	\$60,000.00	\$60,000.00	\$117,000.00	\$117,000.00
30	12040-108-X-2	CITY SHOP HYDRANT PLUMBING	1	LUMP SUM	\$20,000.00	\$20,000.00	\$30,500.00	\$30,500.00

* bid amount changed due to found calculation/addition error

ABSTRACT OF BIDS

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

* bid amount changed due to found calculation/addition error

BID DATE: 4/6/2022 TIME: 2:30 PM					Engineer's Estimate Bolton & Menk, Inc.		SCE, LLC Cherokee, Iowa	
ITEM NO.	SUDAS SPEC NO.	ITEM	APPROX. QUANT.	UNIT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
31	12050-108-X-3	BOLLARD	12	EACH	\$750.00	\$9,000.00	\$750.00	\$9,000.00
32	12050-108-X-4	RV DUMP STATION	1	LUMP SUM	\$10,000.00	\$10,000.00	\$10,500.00	\$10,500.00
BASE BID TOTAL BID:						\$211,610.00		\$333,587.00

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: SCE, LLC

5047 HWY 3 CHEROKEE, IA 51012

Number of years as a Contractor in construction work of this type: 19 YRS

CORY
BOUCHARD,

Names and titles of all officers of Contractor's firm: MEMBER MARIA BOUCHARD, MEMBER

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 – SMITH CONCRETE
- Aggregates –MARTIN MARIETTA
- Watermain Pipe & Appurtenances- BROWN SUPPLY
- Bulk Water Sale System – FLOWPOINT SYSTEMS
- Water Meter – BROWN SUPPLY
- Backflow Preventer- BROWN SUPPLY

END OF SECTION

PROJECT NAME	PROJECT ADDRESS	LOCATION	DESCRIPTION	CONTRACT AMOUNT	DATE OF COMPLETION	ENGINEER INFO	PROJECT ENGINEER
CUSHING WATER SYSTEM IMPR.	200 MAIN ST. CUSHING, IA 51018	CUSHING, IA	WELL, STANDPIPE, WATER MAIN	\$741,093.67	6/21/2019	ISG 1725 N LAKE AVE. STORM LAKE, IA 50588	BROOKE SIEVERS
2018 STORMWATER IMPR. CITY OF CHEROKEE	416 WEST MAIN ST. CHEROKEE, IA 51012	CHEROKEE, IA	BIORETENTION BASIN	\$172,866.50	10/7/2019	BOLTON & MENK 218 11TH ST SW PLAZE SPENCER, IA	LUKE SUMMERS
CLEGHORN WATER SYSTEM IMPR.	105 N LEWIS AVE. CLEGHORN, IA	CLEGHORN, IA	VALVE REPLACEMENT	\$52,391.00	12/9/2019	ISG 1725 N LAKE AVE. STORM LAKE, IA 50588	KELLY EVANS
NEW PRODUCTION WELL #6 SEC. 2	223 MAIN ST. ALTA, IA	ALTA, IA	RAW WATER MAIN	\$308,077.90	11/20/2017	ISG 1725 N LAKE AVE. STORM LAKE, IA 50588	DAVID DOXTAD
IDNR LEDGES CAMPGROUND RENOVATION		BOONE COUNTY, IA	CAMPGROUND UTILITIES	\$169,443.77	8/2/2018	IDNR	DON LABATE 515-250-3714

SUPPLIERS
BROWN SUPPLY CO.
SMITH CONCRETE SERVICE
MARTIN MARIETTA AGGREGATES

RESOLUTION NO. 71-R-2021-2022

RESOLUTION ADOPTING PLANS, SPECIFICATIONS, FORM OF CONTRACT, ESTIMATE OF COST, ACCEPTING BIDS AND AWARDING CONTRACT FOR THE 2022 4th STREET WATERMAIN PROJECT

WHEREAS, the plans, specifications, form of contract, estimate of cost, and award bid were filed with the CITY for the construction of certain public improvements described in general as the 2022 4th Street Watermain Project; and

WHEREAS, notice of hearing on plans, specifications, form of contract and estimate of cost for said public improvements was published as required by law.

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

Section 1. . That the said plans, specifications, form of contract and estimate of cost, are hereby approved, as described in the preamble of this Resolution.

Section 2. That the following bid for the construction of certain public improvements described in general as the 2022 4th Street Watermain Project, is hereby accepted, the same being the lowest responsible bid received for said work, as follows:

Contractor: SCE, LLC
Amount of bid: \$333,587.00
Portion of bid: All

Section 3. That the Mayor and Clerk are hereby directed to execute contract with the contractor for the construction of said public improvements, said contract to be binding on the City, contingent to obtaining all the required concurrences and consents.

PASSED AND APPROVED this 18th day of April, 2022.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

Staff Summary

4/18/2022

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: Keri Navratil, City Manager

SUBJECT: **Motion Approving Agreement with ISG for W. 6th Street Utilities Extension**

BACKGROUND: Brash, LLC is submitting an application to the Iowa Economic Development Authority (IDEA) for the Workforce Housing Tax Incentive Program for housing for 4 sets of twin homes. On April 4, City Council approved a resolution that agreed to a property tax exemption in the form of a residential housing tax abatement which allows for a 5 year exemption of 100% on the first \$75,000 of actual valued added, \$1 building permits, providing water, sewer to the property line, minor street repair, and constructing driveway approaches.

FISCAL IMPACT: The expected fiscal impact is not to exceed \$75,500.

RECOMMENDATION: Approve agreement with ISG

ATTACHMENTS:

Description	Type
ISG Agreement	Contract

SHORT FORM OF AGREEMENT BETWEEN OWNER AND ENGINEER FOR PROFESSIONAL SERVICES

THIS IS AN AGREEMENT effective as of April 18, 2022 ("Effective Date") between the City of Storm Lake ("Owner") and I&S Group, Inc. ("Engineer").

Owner's Project, of which Engineer's services under this Agreement are a part, is generally identified as follows: **W. 6th Street Utilities Extension** ("Project").

Engineer's services under this Agreement are generally identified as follows:

A. Survey

Engineer will perform a topographic survey of the surrounding site and related utility infrastructure to generate site plans in design and prepare any easements exhibits as necessary.

B. Design

Perform preliminary design of the utilities extension including driveway aprons, PCC patching, and water, storm water, and sanitary sewer utilities. Prepare final Drawings and Specifications indicating the scope, extent, and character of the Work to be performed and furnished by the Contractor. Revise drawings and specifications as needed in response to review by Owner and applicable stakeholders. Provide Owner with opinion of probable construction cost. Prepare and furnish bidding documents for review by Owner, its legal counsel, and other advisors, and revise bidding documents as needed.

C. Permitting

Prepare and furnish necessary permit applications for Agency clearances, including the Iowa Department of Natural Resources and Iowa Department of Transportation. Permit fees will be the responsibility of the Owner.

D. Bid Administration

Prepare and furnish bidding documents for review by Owner, its legal counsel, and other advisors and revise bidding documents as needed. Assist with bid solicitation through notification and invitation of contractors, furnishing plans and specifications as requested, answer question of the contractors and Owner, issuance of addenda as necessary, attendance at the bid opening, preparation of recommendation of award letter, and furnishing and completing the Agreement between Owner and Contractor (EJCDC Standard Form of Agreement).

E. Construction Administration

Provide shop drawing review and participate in a Pre-Construction Conference prior to commencement of Work at the Site. Receive, review, and determine the acceptability of all schedules and requests that

Contractor is required to submit to Engineer, including the Progress Schedule, Schedule of Submittals, Schedule of Values, Pay Requests, and Change Orders. Perform visits to the project site at intervals appropriate to the various stages of construction. Perform site walk-through to approve project close-out and provide project closeout documents. Provide progress updates to Owner.

F. Construction Staking

As appropriate, establish baselines and benchmarks for locating the Work which in Engineer's judgement are necessary to enable Contractor to proceed. Provide construction survey for staking to enable Contractor to perform work.

G. Resident Project Representative

Provide the services of a Resident Project Representative (RPR) at the site to assist the Engineer and to provide more extensive observation of Contractor's work. Duties, responsibilities, and authority of the RPR are as set forth in Exhibit A. The furnishing of such RPR's services will not limit, extend, or modify Engineer's responsibilities or authority except as expressly set forth in Exhibit A. Full time RPR has not been included, if required, billing would be at standard hourly rates attached in Appendix 1.

H. As-Built Drawings

As-built drawings will be prepared based on RPR's field notes, Contractor notes, and Owner or Owner's representative's input at the end of construction and identify any changes to the Plans and Specifications. Perform and provide alterations as deemed necessary.

Owner and Engineer further agree as follows:

1.01 *Basic Agreement and Period of Service*

- A. Engineer shall provide or furnish the Services set forth in this Agreement immediately upon approval. If authorized by Owner, or if required because of changes in the Project, Engineer shall furnish services in addition to those set forth above ("Additional Services").
- B. Engineer shall complete its Services within a reasonable period of time.
- C. If, through no fault of Engineer, such periods of time or dates are changed, or the orderly and continuous progress of Engineer's Services is impaired, or Engineer's Services are delayed or suspended, then the time for completion of Engineer's Services, and the rates and amounts of Engineer's compensation, shall be adjusted equitably.

2.01 *Payment Procedures*

- A. *Invoices:* Engineer shall prepare invoices in accordance with its standard invoicing practices and submit the invoices to Owner on a monthly basis. Invoices are due and payable within 30 days of receipt. If Owner fails to make any payment due Engineer for Services, Additional Services, and expenses within 30 days after receipt of Engineer's invoice, then (1) the amounts due Engineer will be increased at the rate of 1.0% per month (or the maximum rate of interest permitted by law, if less) from said thirtieth day, and (2) in addition Engineer may, after giving seven days written notice to Owner, suspend Services under this

Agreement until Engineer has been paid in full all amounts due for Services, Additional Services, expenses, and other related charges. Owner waives any and all claims against Engineer for any such suspension.

- B. *Payment:* As compensation for Engineer providing or furnishing Services and Additional Services, Owner shall pay Engineer as set forth in Paragraphs 2.01, and 2.02 (Services). If Owner disputes an invoice, either as to amount or entitlement, then Owner shall promptly advise Engineer in writing of the specific basis for doing so, may withhold only that portion so disputed, and must pay the undisputed portion.

2.02 *Basis of Payment—Lump Sum and Hourly Rates*

- A. Owner shall pay Engineer for Services as follows:

1. A Lump Sum amount of **\$46,500.**

- a. The Lump Sum Phases as included in the Proposal are subdivided as follows:

Survey	<u>\$3,500</u>
Design	<u>\$34,000</u>
Permitting	<u>\$4,500</u>
Bid Administration	<u>\$4,500</u>

2. An amount equal to the cumulative hours charged to the Project by each class of Engineer's employee's times standard hourly rates for each applicable billing class for all construction and material testing services performed on the Project, plus reimbursable expenses and Engineer's consultants' charges, if any. Engineer's standard hourly rates are attached as Appendix I. This amount is estimated at **\$29,000.**

- a. The Time and Materials Phases included in the Proposal are subdivided as follows:

Construction Administration	<u>\$12,000</u>
Construction Staking	<u>\$3,500</u>
Resident Project Representative	<u>\$12,000</u>
As-Built Construction Drawings	<u>\$1,500</u>

- 2.03 *Additional Services:* For Additional Services, Owner shall pay Engineer an amount equal to the cumulative hours charged in providing the Additional Services by each class of Engineer's employees, times standard hourly rates for each applicable billing class; plus reimbursement of expenses incurred in connection with providing the Additional Services and Engineer's consultants' charges, if any.

3.01 *Termination*

- A. The obligation to continue performance under this Agreement may be terminated:

1. For cause,
 - a. By either party upon 30 days written notice in the event of substantial failure by the other party to perform in accordance with the Agreement's terms through no fault of the terminating party. Failure to pay Engineer for its services is a substantial failure to perform and a basis for termination.
 - b. By Engineer:
 - 1) upon seven days written notice if Owner demands that Engineer furnish or perform services contrary to Engineer's responsibilities as a licensed professional; or
 - 2) upon seven days written notice if the Engineer's Services are delayed for more than 90 days for reasons beyond Engineer's control, or as the result of the presence at the Site of undisclosed Constituents of Concern, as set forth in Paragraph 5.01.I.
 - c. Engineer shall have no liability to Owner on account of a termination for cause by Engineer.
 - d. Notwithstanding the foregoing, this Agreement will not terminate as a result of a substantial failure under Paragraph 3.01.A.1.a if the party receiving such notice begins, within seven days of receipt of such notice, to correct its substantial failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt of notice; provided, however, that if and to the extent such substantial failure cannot be reasonably cured within such 30 day period, and if such party has diligently attempted to cure the same and thereafter continues diligently to cure the same, then the cure period provided for herein shall extend up to, but in no case more than, 60 days after the date of receipt of the notice.
 2. For convenience, by Owner effective upon Engineer's receipt of written notice from Owner.
- B. In the event of any termination under Paragraph 3.01, Engineer will be entitled to invoice Owner and to receive full payment for all Services and Additional Services performed or furnished in accordance with this Agreement, plus reimbursement of expenses incurred through the effective date of termination in connection with providing the Services and Additional Services, and Engineer's consultants' charges, if any.

4.01 *Successors, Assigns, and Beneficiaries*

- A. Owner and Engineer are hereby bound and the successors, executors, administrators, and legal representatives of Owner and Engineer (and to the extent permitted by Paragraph 4.01.B the assigns of Owner and Engineer) are hereby bound to the other party to this Agreement and to the successors, executors, administrators, and legal representatives (and said assigns) of such other party, in respect of all covenants, agreements, and obligations of this Agreement.
- B. Neither Owner nor Engineer may assign, sublet, or transfer any rights under or interest (including, but without limitation, money that is due or may become due) in this Agreement without the written consent of the other party, except to the extent that any assignment, subletting, or transfer is mandated by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.

- C. Unless expressly provided otherwise, nothing in this Agreement shall be construed to create, impose, or give rise to any duty owed by Owner or Engineer to any Constructor, other third-party individual or entity, or to any surety for or employee of any of them. All duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of Owner and Engineer and not for the benefit of any other party.

5.01 *General Considerations*

- A. The standard of care for all professional engineering and related services performed or furnished by Engineer under this Agreement will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality. Engineer makes no warranties, express or implied, under this Agreement or otherwise, in connection with any services performed or furnished by Engineer. Subject to the foregoing standard of care, Engineer and its consultants may use or rely upon design elements and information ordinarily or customarily furnished by others, including, but not limited to, specialty contractors, manufacturers, suppliers, and the publishers of technical standards.
- B. Engineer shall not at any time supervise, direct, control, or have authority over any Constructor's work, nor shall Engineer have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, or the safety precautions and programs incident thereto, for security or safety at the Project site, nor for any failure of a Constructor to comply with laws and regulations applicable to such Constructor's furnishing and performing of its work. Engineer shall not be responsible for the acts or omissions of any Constructor.
- C. Engineer neither guarantees the performance of any Constructor nor assumes responsibility for any Constructor's failure to furnish and perform its work.
- D. Engineer's opinions (if any) of probable construction cost are to be made on the basis of Engineer's experience, qualifications, and general familiarity with the construction industry. However, because Engineer has no control over the cost of labor, materials, equipment, or services furnished by others, or over contractors' methods of determining prices, or over competitive bidding or market conditions, Engineer cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost prepared by Engineer. If Owner requires greater assurance as to probable construction cost, then Owner agrees to obtain an independent cost estimate.
- E. Engineer shall not be responsible for any decision made regarding the construction contract requirements, or any application, interpretation, clarification, or modification of the construction contract documents other than those made by Engineer or its consultants.
- F. All documents prepared or furnished by Engineer are instruments of service, and Engineer retains an ownership and property interest (including the copyright and the right of reuse) in such documents, whether or not the Project is completed. Owner shall have a limited license to use the documents on the Project, extensions of the Project, and for related uses of the Owner, subject to receipt by Engineer of full payment due and owing for all Services and Additional Services relating to preparation of the documents and subject to the following limitations:
 - 1. Owner acknowledges that such documents are not intended or represented to be suitable for use on the Project unless completed by Engineer, or for use or reuse by Owner or others on extensions of the

- Project, on any other project, or for any other use or purpose, without written verification or adaptation by Engineer;
2. any such use or reuse, or any modification of the documents, without written verification, completion, or adaptation by Engineer, as appropriate for the specific purpose intended, will be at Owner's sole risk and without liability or legal exposure to Engineer or to its officers, directors, members, partners, agents, employees, and consultants;
 3. Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and consultants from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from any use, reuse, or modification of the documents without written verification, completion, or adaptation by Engineer; and
 4. such limited license to Owner shall not create any rights in third parties.
- G. Owner and Engineer may transmit, and shall accept, Project-related correspondence, documents, text, data, drawings, information, and graphics, in electronic media or digital format, either directly, or through access to a secure Project website, in accordance with a mutually agreeable protocol.
- H. Engineer shall procure and maintain Professional Liability Insurance in the Annual Aggregate amount of \$2,000,000 excluding fees, cost and expenses of investigation, claims adjustment, defense, and appeal. Notwithstanding any other provisions of this Agreement, and to the fullest extent permitted by law, the total liability, in the aggregate, of Engineer and Engineer's officers, directors, members, partners, agents, employees, and consultants to Owner and anyone claiming by, through, or under Owner for any and all claims, losses, costs, or damages whatsoever arising out of, resulting from the negligence, and professional errors or omissions, of Engineer or Engineer's officers, directors, members, partners, agents, employees, or consultants in the performance of this Agreement (hereafter "Owner's Claims"), shall not exceed the total insurance proceeds paid on behalf of or to Engineer by Engineer's Professional Liability insurers in settlement or satisfaction of Owner's Claims under the terms and condition of Engineer's insurance policies applicable thereto (excluding fees, costs and expenses of investigation, claims adjustment, defense, and appeal). Certificates of insurance will be provided to Owner upon request.
- I. The parties acknowledge that Engineer's Services do not include any services related to unknown or undisclosed Constituents of Concern. If Engineer or any other party encounters, uncovers, or reveals an unknown or undisclosed Constituent of Concern, then Engineer may, at its option and without liability for consequential or any other damages, suspend performance of Services on the portion of the Project affected thereby until such portion of the Project is no longer affected, or terminate this Agreement for cause if it is not practical to continue providing Services.
- J. Owner and Engineer agree to negotiate each dispute between them in good faith during the 30 days after notice of dispute. If negotiations are unsuccessful in resolving the dispute, then the dispute shall be mediated. If mediation is unsuccessful, then the parties may exercise their rights at law.
- K. This Agreement is to be governed by the law of the state in which the Project is located.
- L. Engineer's Services and Additional Services do not include: (1) serving as a "municipal advisor" for purposes of the registration requirements of Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (2010) or the municipal advisor registration rules issued by the Securities and

Exchange Commission; (2) advising Owner, or any municipal entity or other person or entity, regarding municipal financial products or the issuance of municipal securities, including advice with respect to the structure, timing, terms, or other similar matters concerning such products or issuances; (3) providing surety bonding or insurance-related advice, recommendations, counseling, or research, or enforcement of construction insurance or surety bonding requirements; or (4) providing legal advice or representation.

6.01 *Total Agreement*

- A. This Agreement (including any expressly incorporated attachments), constitutes the entire agreement between Owner and Engineer and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

7.01 *Definitions*

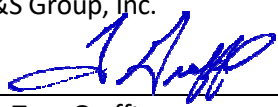
- A. *Constructor*—Any person or entity (not including the Engineer, its employees, agents, representatives, and consultants), performing or supporting construction activities relating to the Project, including but not limited to contractors, subcontractors, suppliers, Owner’s work forces, utility companies, construction managers, testing firms, shippers, and truckers, and the employees, agents, and representatives of any or all of them.
- B. *Constituent of Concern*—Asbestos, petroleum, radioactive material, polychlorinated biphenyls (PCBs), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to (a) the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§9601 et seq. (“CERCLA”); (b) the Hazardous Materials Transportation Act, 49 U.S.C. §§5101 et seq.; (c) the Resource Conservation and Recovery Act, 42 U.S.C. §§6901 et seq. (“RCRA”); (d) the Toxic Substances Control Act, 15 U.S.C. §§2601 et seq.; (e) the Clean Water Act, 33 U.S.C. §§1251 et seq.; (f) the Clean Air Act, 42 U.S.C. §§7401 et seq.; or (g) any other federal, State, or local statute, law, rule, regulation, ordinance, resolution, code, order, or decree regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, the Effective Date of which is indicated on page 1.

Owner: City of Storm Lake

Engineer: I&S Group, Inc.

By: _____
Print name: _____
Title: _____
Date Signed: _____

By:  _____
Print name: Tom Grafft
Title: Water/Wastewater Group Leader
Date Signed: May 7, 2022

Engineer License or Firm's Certificate No. (if required):

State of: Iowa

Address for Owner's receipt of notices:
City of Storm Lake
620 Erie Street
Storm Lake, IA 50588

Address for Engineer's receipt of notices:
I&S Group, Inc.
1725 N. Lake Ave
Storm Lake, IA 50588

This is **EXHIBIT A**, consisting of 5 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated **April 18, 2022**.

Duties, Responsibilities, and Limitations of Authority of Resident Project Representative

Article 1 of the Agreement is supplemented to include the following agreement of the parties:

A1.01 Resident Project Representative

- A. Engineer shall furnish a Resident Project Representative ("RPR") to assist Engineer in observing progress and quality of the Work. The RPR may provide full time representation or may provide representation to a lesser degree.
- B. Through RPR's observations of Contractor's work in progress and field checks of materials and equipment, Engineer shall endeavor to provide further protection for Owner against defects and deficiencies in the Work. However, Engineer shall not, during such RPR field checks or as a result of such RPR observations of Contractor's work in progress, supervise, direct, or have control over Contractor's Work, nor shall Engineer (including the RPR) have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected or used by any contractor, for security or safety at the Site, for safety precautions and programs incident to any contractor's work in progress, or for any failure of a contractor to comply with Laws and Regulations applicable to such contractor's performing and furnishing of its work. The Engineer (including RPR) neither guarantee the performances of any contractor nor assumes responsibility for Contractor's failure to furnish and perform the Work in accordance with the Contract Documents.
- C. The duties and responsibilities of the RPR are as follows:
 - 1. *General:* RPR is Engineer's representative at the Site, will act as directed by and under the supervision of Engineer, and will confer with Engineer regarding RPR's actions. RPR's dealings in matters pertaining to the Contractor's work in progress shall in general be with Engineer and Contractor. RPR's dealings with Subcontractors shall only be through or with the full knowledge and approval of Contractor. RPR shall generally communicate with Owner only with the knowledge of and under the direction of Engineer.
 - 2. *Schedules:* Review the progress schedule, schedule of Shop Drawing and Sample submittals, and schedule of values prepared by Contractor and consult with Engineer concerning acceptability.

3. *Conferences and Meetings:* Attend meetings with Contractor, such as preconstruction conferences, progress meetings, job conferences and other project-related meetings, and prepare and circulate copies of minutes thereof.
4. *Liaison:*
 - a. Serve as Engineer's liaison with Contractor. Working principally through Contractor's authorized representative or designee, assist in providing information regarding the intent of the Contract Documents.
 - b. Assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's On-Site operations.
 - c. Assist in obtaining from Owner additional details or information, when required for proper execution of the Work.
5. *Interpretation of Contract Documents:* Report to Engineer when clarifications and interpretations of the Contract Documents are needed and transmit to Contractor clarifications and interpretations as issued by Engineer.
6. *Shop Drawings and Samples:*
 - a. Record date of receipt of Samples and approved Shop Drawings.
 - b. Receive Samples which are furnished at the Site by Contractor, and notify Engineer of availability of Samples for examination.
 - c. Advise Engineer and Contractor of the commencement of any portion of the Work requiring a Shop Drawing or Sample submittal for which RPR believes that the submittal has not been approved by Engineer.
7. *Modifications:* Consider and evaluate Contractor's suggestions for modifications in Drawings or Specifications and report such suggestions, together with RPR's recommendations, to Engineer. Transmit to Contractor in writing decisions as issued by Engineer.
8. *Review of Work and Rejection of Defective Work:*
 - a. Conduct on-Site observations of Contractor's work in progress to assist Engineer in determining if the Work is in general proceeding in accordance with the Contract Documents.
 - b. Report to Engineer whenever RPR believes that any part of Contractor's work in progress will not produce a completed Project that conforms generally to the Contract Documents or will imperil the integrity of the design concept of

the completed Project as a functioning whole as indicated in the Contract Documents, or has been damaged, or does not meet the requirements of any inspection, test or approval required to be made; and advise Engineer of that part of work in progress that RPR believes should be corrected or rejected or should be uncovered for observation, or requires special testing, inspection, or approval.

9. *Inspections, Tests, and System Start-ups:*

- a. Consult with Engineer in advance of scheduled inspections, tests, and systems start-ups.
- b. Verify that tests, equipment, and systems start-ups and operating and maintenance training are conducted in the presence of appropriate Owner's personnel, and that Contractor maintains adequate records thereof.
- c. Observe, record, and report to Engineer appropriate details relative to the test procedures and systems start-ups.
- d. Accompany visiting inspectors representing public or other agencies having jurisdiction over the Project, record the results of these inspections, and report to Engineer.

10. *Records:*

- a. Maintain at the Site orderly files for correspondence, reports of job conferences, reproductions of original Contract Documents including all change orders, field orders, work change directives, addenda, additional Drawings issued subsequent to the execution of the Construction Contract, Engineer's clarifications and interpretations of the Contract Documents, progress reports, Shop Drawing and Sample submittals received from and delivered to Contractor, and other Project-related documents.
- b. Prepare a daily report or keep a diary or log book, recording Contractor's hours on the Site, weather conditions, data relative to questions of change orders, field orders, work change directives, or changed conditions, Site visitors, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures; and send copies to Engineer.
- c. Record names, addresses, fax numbers, e-mail addresses, web site locations, and telephone numbers of all Contractors, Subcontractors, and major Suppliers of materials and equipment.
- d. Maintain records for use in preparing Project documentation.

- e. Upon completion of the Work, furnish original set of all RPR Project documentation to Engineer.

11. Reports:

- a. Furnish to Engineer periodic reports as required of progress of the Work and of Contractor's compliance with the progress schedule and schedule of Shop Drawing and Sample submittals.
- b. Draft and recommend to Engineer proposed change orders, work change directives, and field orders. Obtain backup material from Contractor.
- c. Furnish to Engineer and Owner copies of all inspection, test, and system start-up reports.
- d. Immediately notify Engineer of the occurrence of any Site accidents, emergencies, acts of God endangering the Work, damage to property by fire or other causes, or the discovery of any Constituent of Concern.

12. Payment Requests: Review applications for payment with Contractor for compliance with the established procedure for their submission and forward with recommendations to Engineer, noting particularly the relationship of the payment requested to the schedule of values, Work completed, and materials and equipment delivered at the Site but not incorporated in the Work.

13. Certificates, Operation and Maintenance Manuals: During the course of the Work, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the Contract Documents to be assembled and furnished by Contractor are applicable to the items actually installed and in accordance with the Contract Documents, and have these documents delivered to Engineer for review and forwarding to Owner prior to payment for that part of the Work.

14. Completion:

- a. Participate in visits to the Project to determine Substantial Completion, assist in the determination of Substantial Completion and the preparation of lists of items to be completed or corrected.
- b. Participate in a final visit to the Project in the company of Engineer, Owner, and Contractor, and prepare a final list of items to be completed and deficiencies to be remedied.

- c. Observe whether all items on the final list have been completed or corrected and make recommendations to Engineer concerning acceptance.

D. Resident Project Representative shall not:

1. Authorize any deviation from the Contract Documents or substitution of materials or equipment (including “or-equal” items).
2. Exceed limitations of Engineer’s authority as set forth in this Agreement.
3. Undertake any of the responsibilities of Contractor, Subcontractors or Suppliers.
4. Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences or procedures of Contractor’s work.
5. Advise on, issue directions regarding, or assume control over security or safety practices, precautions, and programs in connection with the activities or operations of Owner or Contractor.
6. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by Engineer.
7. Accept shop drawing or sample submittals from anyone other than Contractor.
8. Authorize Owner to occupy the Project in whole or in part.

This is **Appendix 1, Engineer's Standard Hourly Rates**, referred to in and part of the Short Form of Agreement between Owner and Engineer for Professional Services dated **April 18, 2022**.

Engineer's Standard Hourly Rates

A. Standard Hourly Rates:

1. Standard Hourly Rates are set forth in this Appendix 1 and include salaries and wages paid to personnel in each billing class plus the cost of customary and statutory benefits, general and administrative overhead, non-project operating costs, and operating margin or profit.
2. The Standard Hourly Rates apply only as specified in Paragraphs 2.01, 2.02, and 2.03, and are subject to annual review and adjustment.

B. Schedule of Hourly Rates:

See attached.

2022 Standard Hourly Rates

Rates are effective as of January 1, 2022, and are subject to change on an annual basis.

ISG

Job Type	Hourly Rate
Administrative <i>I-IV</i>	\$70-130
Applied Technology Specialist <i>I-Senior</i>	\$95-145
Architect <i>I-Senior</i>	\$115-200
Architectural Designer <i>I-Senior</i>	\$105-150
Business Developer <i>I-Senior</i>	\$130-200
Business Writer <i>I-Senior</i>	\$100-120
Civil Engineer <i>I-Senior</i>	\$130-210
Civil Designer <i>I-Senior</i>	\$100-150
Planner <i>I-Senior</i>	\$120-190
Construction Administrator <i>I-Senior</i>	\$105-145
Drone Specialist <i>I-Senior</i>	\$100-145
Electrical Engineer <i>I-Senior</i>	\$130-210
Electrical Designer <i>I-Senior</i>	\$105-180
Environmental Scientist/Engineer <i>I-Senior</i>	\$115-180
General Counsel	\$325
GIS Specialist <i>I-Senior</i>	\$115-175
Graphic Designer <i>I-Senior</i>	\$95-115
IT Specialist <i>I-Senior</i>	\$115-170
Interior Designer <i>I-Senior</i>	\$115-175

Job Type	Hourly Rate
Land Surveyor <i>I-Senior</i>	\$105-185
Land Survey Specialist <i>I-Senior</i>	\$91-136
Landscape Architect <i>I-Senior</i>	\$120-190
Landscape Designer <i>I-Senior</i>	\$105-145
Marketing Consultant/Specialist <i>I-Senior</i>	\$110-170
Mechanical Engineer <i>I-Senior</i>	\$130-210
Mechanical Designer <i>I-Senior</i>	\$105-155
Project Coordinator <i>I-IV</i>	\$115-150
Project Manager <i>I-Senior</i>	\$125-210
Refrigeration Designer <i>I-Senior</i>	\$110-175
Refrigeration Engineer <i>I-Senior</i>	\$130-230
Senior Finance Consultant	\$170
Senior Project Executive	\$250
Structural Engineer <i>I-Senior</i>	\$130-210
Structural Designer <i>I-Senior</i>	\$105-150
Technical Writer <i>I-Senior</i>	\$130-145
Technology Designer <i>I-Senior</i>	\$100-190
Technology Engineer <i>I-Senior</i>	\$120-200
Telecommunications Designer <i>I-Senior</i>	\$70-120
Telecommunications Engineer <i>I-Senior</i>	\$130-190

Job Type	Hourly Rate
Telecommunications Project Manager <i>I-Senior</i>	\$125-190
Visualization Specialist <i>I-Senior</i>	\$145-190
Videographer	\$135
Water/Wastewater Designer <i>I-Senior</i>	\$100-145
Water/Wastewater Engineer <i>I-Senior</i>	\$130-200
Water/Wastewater Project Manager <i>I-Senior</i>	\$125-200

Equipment	Hourly Rate
Survey Grade GPS/Robotics	\$56
Mapping Grade GPS	\$20
3D Laser Scanner	\$63
Manhole Scanner	\$63
Mobile Scanner**	Varies
R/C Boat + Sounding Equipment	\$50
Surveillance Drone	\$50
Photogrammetry Drone	\$125
Thermal Imaging Drone	\$175
LiDAR Drone**	Varies
All-Terrain Vehicle	\$25
Traffic Counter	\$11
Pipe Crawler** (per linear foot)	Varies

Mileage reimbursement is at the IRS standard rate. Outside services are billed at cost plus 10%.

**Project-specific rates—call for pricing

Staff Summary

4/18/2022

Agenda Item # 11.



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. None at this time

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